

Diatom Monographs

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Catalogue of continental diatoms
from Portugal, including the Archipelagos
of Azores and Madeira: updated nomenclature,
distribution and bibliography



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Manuela Morais, Lucien Hoffmann and
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1. CATALOGUE

The total number of taxa listed in this catalogue is of 1381, compiled from the 173 publications considered. For the accepted diatom names, the information provided in the Catalogue of Diatom Names (2010) by the California Academy of Sciences: <http://research.calacademy.org/research/diatoms/names/> is followed. This aims to avoid the repetition of taxa under different synonyms. In addition to these names, the **basionym** and the **nomenclatural synonyms** mentioned in the publications checked are provided. Nevertheless, to avoid the loss of important information and to allow also an historical overview, the literal name used for each species in the original publication is placed after the authors of the publication. The **taxonomical synonyms** are presented according to the most common bibliographic references, such as Krammer & Lange-Bertalot (1986, 1988, 1991a, 1991b) and Krammer (1997a, 1997b, 2000). Nevertheless these synonyms are kept separately, since there is still a need of further studies to confirm the validity of this synonymy.

The taxa are listed alphabetically rather than following a systematic ordination in order to facilitate the search, especially due to the huge number of pages.

Each taxon is presented, whenever possible, by the exact sampling site mentioned in the literature. The information about the **distribution** of each species follows the following scheme:

REGION

Subregion

Municipality (District)

Site

Reference

The information about the District is also included, because it is still a well-known and easily recognizable geographical division in Portugal. Each site also refers to the watercourse and the hydrographical basin to which it belongs to ease the understanding of the information provided, and moreover because this information can be useful for the main international basins, as Tagus/Tajo, Douro/Duero, Minho/Miño, Lima/Limia, Tâmega/Tâmega and Guadiana.

Maps with the municipalities where every taxon has been cited, showing the geographical distribution of each taxon in Mainland Portugal and the Madeira and Azores Archipelagos are included, and their respective figure numbers are presented together with the distribution.

Nupela Vyverman & Compère 1991, p. 175
[CAS ref. 006335]

Nupela imperfecta (Schimanski) Lange-Bertalot & Genkal 1999, p. 80 [CAS ref. 009014]

Basionym: *Achnanthes imperfecta* Schimanski 1978 [CAS ref. 008766]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Nupela imperfecta* (Schimanski) Lange-Bertalot, fossil)

Nupela impexiformis (Lange-Bertalot in Lange-Bertalot & Krammer) Lange-Bertalot 1999, p. 280 [CAS ref. 012674]

Basionym: *Achnanthes impexiformis* Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 1):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nupela impexiformis* (Lange-Bertalot) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes impexiformis* Lange-Bertalot)

Nupela lapidosa (Krasske) Lange-Bertalot 1999, p. 280 [CAS ref. 012674]

Basionym: *Achnanthes lapidosa* Krasske 1929 [CAS ref. 000582]

Distribution (Fig. 2):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lapidosa* Krasske)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lapidosa* Krasske)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes lapidosa* Krasske)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Achnanthes lapidosa* Krasske)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lapidosa* Krasske)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lapidosa* Krasske); Gil et al. 1989-1990 (as *Achnanthes lapidosa*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes lapidosa* Krasske)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: Gil et al. 1991 (as *Achnanthes lapidosa*)
 REGION: Not specified
 Subregion: Not specified
 Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes lapidosa* Krasske var. *lapidosa* Krasske)

***Nupela silvaheercynia* (Lange-Bertalot) Lange-Bertalot in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 97; pl. 22, fig. 55-56, pl. 118, fig. 1 [CAS ref. 007048]

Basionym: *Achnanthes silvaheercynia* Lange-Bertalot in Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes silvaheercynia* Lange-Bertalot)

***Opephora* P. Petit 1888**, p. 130
[CAS ref. 000751]

***Opephora mutabilis* (Grunow) Sabbe & Vyverman 1995**, p. 241; fig. 13-28, 61-65 [CAS ref. 008745]

Basionym: *Sceptroneis mutabilis* Grunow in Cleve & Möller 1879a [CAS ref. 001978]

Distribution (Fig. 3):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Opephora mutabilis* (Grunow) Sabbe & Vyverman)

Orthoseira Thwaites 1848, p. 167
[CAS ref. 000886]

Orthoseira roeseana (Rabenhorst) O'Meara 1876, p. 255 [CAS ref. 000694]

Basionym: *Melosira roeseana* Rabenhorst 1853 [CAS ref. 000772]

Distribution (Fig. 4):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Melosira roeseana*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga, mouth of Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Diz River

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Melosira roeseana* Rabenh.); Santos & Carvalho 2001 (as *Melosira roeseana* Rabenh.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Melosira roeseana* Rabenhorst)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Melosira roeseana* Rabenh., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Calheta

Reference: Mölder 1947 (as *Melosira roeseana* Rabenhorst)

Municipality: Horta (Faial Island)

Site: Not specified

Reference: Johansson 1977 (as *Melosira roeseana* Rabenhorst)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Melosira roeseana* Rabenhorst)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Melosira roeseana* Rabenhorst); Bourrelly & Manguin 1946a (as *Melosira roeseana* Rabenhorst)

Municipality: Not specified

Site: Pico Island

Reference: Johansson 1977 (as *Melosira roeseana* Rabenhorst)

Municipality: Not specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)
Site: Not specified
Reference: Gonçalves 2008 (as *Orthoseira roeseana* (Rabenhorst) O'Meara)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Faial Stream
Reference: Schodduyn 1927 (as *Melosira roeseana* Rabh.)

***Paralia Heiberg 1863*, p. 33**
[CAS ref. 000471]

***Paralia sulcata* (Ehrenberg) Cleve 1873**, p. 7 [CAS ref. 000220]

Basionym: *Gaillonella sulcata* Ehrenberg 1838 [CAS ref. 000288]

Nomenclatural synonym: *Melosira sulcata* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 5):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Melosira sulcata*)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Tagus riverbanks (Tagus Basin)
Reference: Ehrenberg 1845 (as *Gaillonella sulcata*)

***Paralia sulcata* var. *coronata* (Ehrenberg) G.W. Andrews 1976**, v. 910: p. 9; pl. 1, fig. 7, 8 [CAS ref. 003359]

Basionym: *Gaillonella coronata* Ehrenberg 1845a [CAS ref. 000956]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Gaillonella coronata*)

***Parlibellus* E.J. Cox 1988**, p. 19
[CAS ref. 003173]

***Parlibellus cruciculus* (W. Smith) Witkowski, Lange-Bertalot & Metzeltin 2000**, p. 321 [CAS ref. 009017]

Basionym: *Stauroneis crucicula* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 6):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Stauroneis crucicula*)

***Parlibellus protractus* (Grunow) Witkowski, Lange-Bertalot & Metzeltin 2000**, p. 324 [CAS ref. 009017]

Basionym: *Navicula protracta* Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Navicula protracta* (Grunow in Cleve & Grunow) Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 7):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Parlibellus protracta* (Grunow) Witkowski, Lange-Bertalot & Metzeltin)

Site: Not specified

Reference: Gonçalves 2008 (as *Parlibellus protracta* (Grunow) Witkowski, Lange-Bertalot & Metzeltin)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Navicula protracta* (Grunow) Cleve)

***Parlibellus protractus* var. *subcapitatus* (Wisłouch & V.S. Poretzky) Aboal in Aboal et al. 2003, p. 392 [CAS ref. 012666]**

Basionym: *Navicula hundertstroomii* var. *subcapitata* Wisłouch & V.S. Poretzky in Poretzky 1924 [CAS ref. 002122]

Nomenclatural synonym: *Navicula protracta* f. *subcapitata* (Wisłouch & V.S. Poretzky in Poretzky) Hustedt 1962 [CAS ref. 002277]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Navicula protracta* fo. *subcapitata* (Wisłouch & Poretzky) Hustedt)

***Peronia* Brébisson & Arnott ex Kitton 1868, p. 16
[CAS ref. 002059]**

***Peronia fibula* (Brébisson ex Kützing) R. Ross 1956, p. 78 [CAS ref. 002576]**

Basionym: *Gomphonema fibula* Brébisson ex Kützing 1849 [CAS ref. 000596]

Synonym: *Peronia erinacea* Brébisson & Arnott ex Kitton 1868, *nom illeg.* [CAS ref. 002059]

Distribution (Fig. 8):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Peronia erinacea* Bréb. et Arn.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Peronia fibula* (Bréb. ex Kutz.) Ross);

Ferreira da Silva et al. 2009 (as *Peronia fibula* (Bréb. ex Kutz.) Ross)

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Peronia fibula* (Brébisson) Ross)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Peronia erinacea* Bréb et Arn.)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Peronia fibula*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Peronia fibula* (Bréb. & Arnott) Ross)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
References: Calado 1990 (as *Peronia fibula* (Brébisson et Arnott) Ross);
Gil et al. 1991 (as *Peronia fibula*)
- REGION: Not specified
Municipality: Not specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Peronia fibula* (Kütz.) Ross)
- Site: Not specified
Reference: INAG 2008 (as *Peronia fibula* (Bréb. ex Kütz.) Ross)

***Pinnularia Ehrenberg 1843a*, p. 45**
[CAS ref. 001183]

***Pinnularia acorica* Krammer & Metzeltin in Krammer 2000**, p. 173, 237; pl. 183, fig. 1-2 [CAS ref. 009351]

Distribution (Fig. 9):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia acorica* Krammer & Metzeltin)

***Pinnularia acorica* Hustedt 1935**, v. 14: p. 159; pl. 3, fig. 24a, b
[CAS ref. 000509]

Distribution (Fig. 10):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acorica* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acorica*); Almeida 1998 (as *Pinnularia acorica* Hustedt)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acorica* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acorica* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia acorica* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acorica* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acorica*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acorica* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia acorica* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acorica*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

- Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acoricola* Hustedt)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia acoricola*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acoricola* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acoricola* Hustedt); Gil et al. 1989-1990 (as *Pinnularia acoricola*)

Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Pinnularia acoricola*)

REGION: ALENTEJO

Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Pinnularia acoricola* Hustedt)
Municipality: Mértola (District: Beja)
Site: Acid mine drainage of the São Domingos mine
Reference: Gerhardt et al. 2008 (as *Pinnularia acoricola* Hustedt)
Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Pinnularia acoricola* Hustedt)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia acoricola* Hustedt var. *acoricola*)

***Pinnularia acrosphaeria* (Brébisson) W. Smith 1853**, p. 58; pl. 19, fig. 183 [CAS ref. 000863]

Basionym: *Frustulia acrosphaeria* Brébisson 1838 [CAS ref. 000161]

Nomenclatural synonym: *Navicula acrosphaeria* (Brébisson) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 11):

REGION: NORTE

Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Pinnularia acrosphaeria* Bréb.)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith); Gil et al. 1989-1990 (as *Pinnularia acrosphaeria*)
Site: Águeda, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith); Gil et al. 1989-1990 (as *Pinnularia acrosphaeria*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia acrosphaeria*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia acrosphaeria*)
 Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.); Santos & Carvalho 2001 (as *Navicula acrosphaeria* Bréb.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.); Santos & Carvalho 2001 (as *Navicula acrosphaeria* Bréb.)

Site: Vela
Reference: Carvalho 1913 (as *Navicula acrosphaeria* Bréb.)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acrosphaeria* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia acrosphaeria* W. Smith)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia acrosphaeria* W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Navicula acrosphaeria*)

***Pinnularia acrosphaeria* Rabenhorst 1853**, p. 45; pl. 6, fig. 36 [CAS ref. 000772]

Distribution (Fig. 12):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia acrosphaeria* Rabenhorst)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia acrosphaeria* Rabenhorst)

***Pinnularia acuminata* W. Smith 1853**, p. 55; pl. 18, fig. 164 [CAS ref. 000863]

Distribution (Fig. 13):

REGION: CENTRO

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)
- Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Site: Varzuelas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia acuminata* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Pinnularia acuminata* W. Smith, fossil)

***Pinnularia allorgei* Manguin 1942**, p. 146; pl. 3, fig. 60 [CAS ref. 000623]

Distribution (Fig. 14):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Pinnularia allorgei* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia allorgei* Manguin)

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia allorgei* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia allorgei* Manguin)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia allorgei* Manguin)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia allorgei* Manguin)

***Pinnularia alpina* W. Smith 1853**, p. 55; pl. 18, fig. 168 [CAS ref. 000863]

Distribution (Fig. 15):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia alpina* W. Smith)

***Pinnularia angulosa* Krammer 2000**, p. 27 [CAS ref. 009351]

Replaced synonym: *Pinnularia borealis* var. *brevicostata* Hustedt 1914 [CAS ref. 000493]

Distribution (Fig. 16):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust.)

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angulosa* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angulosa* Krammer)

***Pinnularia angusta* (Cleve) Krammer 1992**, p. 122; pl. 44, fig. 16-20 [CAS ref. 006262]

Basionym: *Pinnularia mesolepta* var. *angusta* Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 17):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia angusta* (Cleve) Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia angusta* (Cleve) Krammer)

***Pinnularia appendiculata* (C. Agardh) Cleve 1895**, p. 75 [CAS ref. 000949]

Basionym: *Frustulia appendiculata* C. Agardh 1827 [CAS ref. 000103]

Nomenclatural synonym: *Navicula appendiculata* (C. Agardh) Kützing 1844 [CAS ref. 000595]

Synonym: *Pinnularia kuetzingii* Krammer 1992 [CAS ref. 006262], according to Krammer 2000, p. 120

Distribution (Fig. 18):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia appendiculata*)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Cubo
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Diz River
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Meios
 References: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.); Santos & Carvalho 2001 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Site: Mondego River (Mondego Basin)
 Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)
- Site: Nueme
 Reference: Carvalho 1913 (as *Navicula appendiculata* (Ag.) Kuetz.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: Torre, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula appendiculata* Kuetz.)
- Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Serra da Gardunha
 Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)

- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia appendiculata* (Agardh) P. Cleve)
 Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Santa Cruz
 Reference: Zimmermann 1914 (as *Navicula appendiculata* Kuetz.)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: Almeida 1998 (as *Pinnularia appendiculata* (Agardh) Cleve);
 Calado 1990 (as *Pinnularia appendiculata* (Agardh) Cleve)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Site: Santa Bárbara
 Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Municipality: Calheta (São Jorge Island)
 Site: Ribeira do Salto (São Jorge Island)
 Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Site: Ribeira de São João
 Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Municipality: Corvo (Corvo Island)
 Site: Caldeira
 Reference: Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Pinnularia appendiculata* (Ag.) Cl.)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Pinnularia appendiculata* (Ag.) Cl.)
 Site: Lagoa das Furnas

- Reference: Chaves 1908 (as *Navicula appendiculata* Ktz.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve);
 Mölder 1947 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Boi
 Reference: Gonçalves 1996 (as *Pinnularia appendiculata* (Agardh) Cleve)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Site: Ribeira Grande
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Municipality: Vila Franca do Campo (São Miguel Island)
 Site: Lagoa do Congro
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Municipality: Not specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Lagoa de Cazador (São Miguel Island)
 References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve);
 Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve)
 Site: Pico Island
 References: Johansson 1977 (as *Pinnularia* cfr. *appendiculata* (Ag.) Cleve); Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia appendiculata* (C. Agardh) Cleve)

REGION: Not specified
 Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia appendiculata* (Agardh) Cleve var. *appendiculata*)

***Pinnularia appendiculata* f. *constricta* Manguin 1942**, p. 142; pl. 3, fig. 51 [CAS ref. 000623]

Distribution (Fig. 19):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia appendiculata* (Ag.) Cleve fo. *constricta* Manguin)

***Pinnularia bicapitata* (Lagerstedt) Cleve 1891**, p. 28 [CAS ref. 000229]

Basionym: *Navicula bicapitata* Lagerstedt 1873 [CAS ref. 000597]

Distribution (Fig. 20):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula bicapitata* Lag.)

***Pinnularia biceps* W. Gregory 1856**, p. 8; pl. 1, fig. 28 alpha [CAS ref. 000397]

Synonym: *Pinnularia interrupta* W. Smith 1853 [CAS ref. 000863], according to Krammer 2000, p. 104

Distribution (Fig. 21):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Bolfiãr, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Pinnularia biceps* Gregory)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia biceps* Gregory)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
References: Calado 1990 (as *Pinnularia biceps* Gregory); Gil et al. 1991
(as *Pinnularia biceps*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia biceps* W. Gregory)

***Pinnularia borealis* Ehrenberg 1843b**, p. 420 (132); pl. 1/2, fig. 6, pl. 4/1, fig. 5 [CAS ref. 000294]

Nomenclatural synonym: *Navicula borealis* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 22):

REGION: NORTE

Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)
Subregion: Grande Porto
Municipality: Maia (District: Porto)
Site: Parada
Reference: Silva 1950b (as *Pinnularia borealis* Ehr.)
Municipality: Matosinhos (District: Porto)
Site: Not specified
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Municipality: Porto (District: Porto)

Site: Carreiros
Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)
Subregion: Not specified
Municipality: Not specified
Site: Serra do Gerês
References: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.);
Sampaio 1950 (as *Navicula borealis* (Ehrenb.) Kütz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Pinnularia borealis*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*); Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)

Site: Bolfiãr, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia borealis*)

Municipality: Aveiro (District: Aveiro)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia borealis* Ehrenberg)

Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia borealis*)

Municipality: Ovar (District: Aveiro)
 Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia borealis*)

Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia borealis* Ehrenberg)

Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula borealis* (Ehr.) Kuetz.)
 Site: Mondego River (Mondego Basin)

References: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.);
Carvalho 1913 (as *Navicula borealis* (Ehr.) Kuetz.); Santos & Carvalho
2001 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Site: Sobral do Campo

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Casal da Serra, Serra da Gardunha

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Pinnularia borealis*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia borealis* Ehrenberg)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia borealis* Ehrenberg); Gil et al. 1989-
1990 (as *Pinnularia borealis*)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Pinnularia borealis* Ehrenberg)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Pinnularia borealis* Ehrenberg); Gil et al.

1991 (as *Pinnularia borealis*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Navicula borealis* (Ehr.) Kuetz.)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia borealis* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia borealis* Ehr.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Pinnularia borealis* Ehrenberg var. *borealis* Krammer & Lange-Bertalot)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia borealis* Ehrenberg var. *borealis* Krammer & Lange-Bertalot)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia borealis* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula borealis* Ehr.)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)
 Site: Pico da Vara
 Reference: Holmboe 1901 (as *Pinnularia borealis* Ehr.)
 Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Pinnularia borealis*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Pinnularia borealis*)
 Municipality: Not specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: Graciosa Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Pinnularia borealis* Ehrenberg)
 Site: Not specified
 References: Manguin 1942 (as *Pinnularia borealis* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr.); Gonçalves 2008 (as *Pinnularia borealis* var. *borealis* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
 Site: Curral dos Romeiros, João Gomes Stream
 Reference: Zimmermann 1909a (as *Navicula borealis* (Ehr.) Kuetz.)
 Municipality: Porto Santo (Porto Santo Island)
 Site: Faial Stream
 Reference: Zimmermann 1910-1911 (as *Navicula borealis* (Ehr.) Kuetz.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Pinnularia borealis*)

Site: Not specified

Reference: INAG 2008 (as *Pinnularia borealis* Ehrenberg var. *borealis*)

***Pinnularia borealis* var. *brevicostata* f. *elongata* Manguin 1942**, p. 145; pl. 3, fig. 57 [CAS ref. 000623]

Distribution (Fig. 23):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust. fo. *elongata*); Bourrelly & Manguin 1946a (as *Pinnularia borealis* Ehr. var. *brevicostata* Hust. fo. *elongata*)

***Pinnularia borealis* f. *rectangularis* G.W.F. Carlson 1913**, p. 21; pl. 3, fig. 15 [CAS ref. 000188]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia borealis* Ehrenberg f. *rectangularis* Carlson)

***Pinnularia borealis* var. *subislandica* Krammer 2000**, p. 25, 209; pl. 8, fig. 1-5, (?)6 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia borealis* var. *subislandica* Krammer)

***Pinnularia brauniana* (Grunow) Mills 1934**, p. 1273 [CAS ref. -]

Basionym: *Navicula brauniana* Grunow in Schmidt et al. 1876 [CAS ref. 012450]

Synonym: *Navicula braunii* Grunow in Van Heurck 1880 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 416 and to Krammer 2000, p. 112

Distribution (Fig. 24):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia brauniana* (Grunow) Mills)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brauniana* (Grunow) Mills)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia brauniana* (Grunow) Mills)

***Pinnularia braunii* (Grunow in Van Heurck) Cleve 1895, p. 75**
[CAS ref. 000949]

Basionym: *Navicula braunii* Grunow in Van Heurck 1880 [CAS ref. 000895]

Synonym: *Navicula brauniana* Grunow in Schmidt et al. 1876 [CAS ref. 000895], according to Krammer & Lange-Bertalot 1986, p. 416 and to Krammer 2000, p. 112

Distribution (Fig. 25):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia braunii* (Grunow) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia braunii*)

- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia braunii* (Grunow) Cleve)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia braunii*)
- Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia braunii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia braunii*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia braunii*)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
 Site: Guarda
 Reference: Carvalho 1913 (as *Navicula braunii* Grun.)
- Site: Lameirinhas
 Reference: Carvalho 1913 (as *Navicula braunii* Grun.)
- Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula braunii* Grun.); Santos & Carvalho 2001 (as *Navicula braunii* Grun.)
- Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula braunii* Grun.)
- Site: Vela
 Reference: Carvalho 1913 (as *Navicula braunii* Grun.)
- Subregion: Dão-Lafões
- Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia braunii* (Grunow) Cleve)
- Subregion: Serra da Estrela
- Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Pinnularia braunii* (Grunow) Cleve)
- Subregion: Not specified
- Municipality: Not specified
 Site: Not specified
 Reference: Calado 1990 (as *Pinnularia braunii* (Grunow) Cleve)
- REGION: Not specified
- Subregion: Not specified
- Municipality: Not specified
 Site: Not specified
 Reference: INAG 2008 (as *Pinnularia braunii* (Grunow) Cleve)

***Pinnularia braunii* var. *amphicephala* (Ant. Mayer) Hustedt 1930**, p. 319; fig. 578 [CAS ref. 000502]

Basionym: *Pinnularia amphicephala* Ant. Mayer 1917a [CAS ref. 001027]

Synonym: *Pinnularia mayeri* Krammer 1992 [CAS ref. 006262], according to Krammer 2000, p. 92

Distribution (Fig. 26):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Pinnularia braunii* (Grun.) Cleve var. *amphicephala* (Mayer) Hust.)

***Pinnularia brebissonii* (Kützing) Rabenhorst 1864**, p. 222 [CAS ref. 000775]

Basionym: *Navicula brebissonii* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Pinnularia microstauron* var. *brebissonii* (Kützing) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 27):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Celho

Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Carreiros

- Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Site: Lordelo
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Site: Vilarinho
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Subregion: Minho-Lima
 Municipality: Paredes de Coura (District: Viana do Castelo)
 Site: Insalde
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Subregion: Tâmega
 Municipality: Lousada (District: Porto)
 Site: Not specified
 Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
 Subregion: Not specified
 Municipality: Not specified
 Site: Serra do Gerês
 Reference: Silva 1950a (as *Pinnularia microstauron* (Ehr.) Cleve var. *brebissonii* (Kütz.) Hust.)

REGION: CENTRO

- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Bolfiar, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
 Municipality: Anadia (District: Aveiro)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
 Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: Vagueira, Canal de Mira
 Reference: Resende et al. 2005 (as *Pinnularia brebissonii*)
- Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia brebissonii*)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Caldeirão
 References: Carvalho 1913 (as *Navicula brebissonii* Kuetz.); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz.)
- Site: Diz River
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Guarda
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula brebissonii* Kuetz.); Zimmermann 1914 (as *Navicula brebissonii* Kuetz.); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz.)
- Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Vela
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Site: Vila Patrício
 Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula brebissonii* Kuetz.)
- Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Pinnularia brebissonii*)
- Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)

- Site: Castelo Novo, Alpreade Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Site: Serra da Gardunha
Reference: Zimmermann 1914 (as *Navicula brebissonii* Kuetz.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia brebissonii* (Kütz.) Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Navicula brebissonii* Ktz.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula brebissonii* Ktz., fossil)
- Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula brebissonii* Ktz., fossil)
- Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)
- Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia brebissonii* (Kützing) Rabenhorst)

***Pinnularia brebissonii* var. *angusta* (Grunow) Rabenhorst 1864, p. 222 42 [CAS ref. 000775]**

Basionym: *Navicula brebissonii* var. *angusta* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 28):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: São Roque do Faial

Reference: Zimmermann 1909a (as *Navicula brebissonii* Kuetz. var. *angusta* Grun.)

***Pinnularia brebissonii* var. *diminuta* (Grunow in Van Heurck)
Cleve 1895, p. 78 [CAS ref. 000949]**

Basionym: *Navicula brebissonii* var. *diminuta* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 29):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula brebissonii* Kuetz. var. *diminuta* V.H.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia brebissonii* (Kützing) Rabenhorst var. *diminuta* (Grunow) Cleve)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Guarda
- Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *diminuta*)
- Site: Cruz da Faia
- Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *diminuta*)

***Pinnularia brebissonii* var. *subproducta* (Grunow in Van Heurck) Cleve-Euler 1932, p. 78; fig. 177 [CAS ref. 000248]**

Basionym: *Navicula brebissonii* var. *subproducta* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 30):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *subproducta*); Santos & Carvalho 2001 (as *Navicula brebissonii* Kuetz. var. *subproducta*)

Site: Vila Patricio

Reference: Carvalho 1913 (as *Navicula brebissonii* Kuetz. var. *subproducta*)

***Pinnularia brevicostata* Cleve 1891**, p. 25; pl. 1, fig. 5 [CAS ref. 000229]

Distribution (Fig. 31):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia brevicostata* Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brevicostata* Cleve)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia brevicostata* Cleve)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia brevicostata* Cleve)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia brevicostata* Cleve)

***Pinnularia brevicostata* var. *intermedia* Manguin 1942**, p. 145; pl. 4, fig. 65 [CAS ref. 000623]

Distribution (Fig. 32):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia brevicostata* Cleve var. *intermedia* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia brevicostata* Cleve var. *intermedia* Manguin)

***Pinnularia caraccana* Ehrenberg ex Rabenhorst 1853**, p. 42 [CAS ref. 000772]

Nomenclatural synonyms: *Navicula borealis* var. *caraccana* (Ehrenberg ex Rabenhorst) De Toni 1891 [CAS ref. 000271]

Pinnularia borealis var. *caraccana* (Ehrenberg ex Rabenhorst) Brun 1880 [CAS ref. 000174]

Distribution (Fig. 33):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: São Roque do Faial

Reference: Zimmermann 1909a (as *Navicula borealis* (Ehrenb.) Kützing var. *caraccana* (Ehr.) Brun.)

***Pinnularia dactylus* Ehrenberg 1843b**, p. 420 (132); pl. 4/1, fig. 3 [CAS ref. 000294]

Nomenclatural synonyms: *Navicula dactylus* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Navicula nobilis var. *dactylus* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 34):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Borrageira (Serra do Gerês)

Reference: González-Guerrero 1950 (as *Pinnularia dactylus* Ehr.)

REGION: CENTRO

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Santa Cruz

Reference: Zimmermann 1910 (as *Navicula nobilis* (Ehr.) Kuetz. var. *dactylus* (Ehr.) V.H.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia dactylus* Ehr., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula dactylus* Ehr., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula dactylus* Ehr., fossil)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia dactylus* Ehr., fossil)

***Pinnularia decrescens* (Grunow) Krammer 2000**, p. 64 [CAS ref. 009351]

Basionym: *Navicula legumen* var. *decrescens* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 35):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia decrescens* (Grunow) Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia decrescens* (Grunow) Krammer)

***Pinnularia dicephala* (Ehrenberg) Ehrenberg 1843a**, pl. 2/1; fig. 29, pl. 2/2, fig. 5 [CAS ref. 00094]

Basionym: *Navicula dicephala* Ehrenberg 1837 [CAS ref. 001178]

Nomenclatural synonym: *Navicula dicephala* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 36):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: Izeda

Reference: Zimmermann 1910 (as *Navicula dicephala* Ehr.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula dicephala* Ehr.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula dicephala* Ehr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Navicula dicephala* Ktz.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula dicephala* Ktz.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula dicephala* Ktz., fossil)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Curral dos Romeiros, João Gomes Stream

Reference: Zimmermann 1909a (as *Navicula dicephala* Ehr.)

Site: Tanque nos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Navicula dicephala* Ehr.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Navicula dicephala*)

***Pinnularia divergens* W. Smith 1853**, p. 57; pl. 18, fig. 177 [CAS ref. 000863]

Nomenclatural synonym: *Navicula divergens* (W. Smith) Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 37):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)

Municipality: Esposende (District: Braga)

- Site: Marachão, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)
Municipality: Not specified
- Site: Entrepontes, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)
Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Pinnularia divergens*)
- Subregion: Entre Douro e Vouga
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Subregion: Grande Porto
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Pinnularia divergens*)
- Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia divergens*)
Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia divergens*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia divergens*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia divergens*)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Pinnularia divergens*)
- Subregion: Not specified
Municipality: Not specified
Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Pinnularia divergens*)
- REGION: CENTRO
- Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: Zimmermann 1909b (as *Navicula divergens* (W. Sm.) Grunow)
- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*); Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia divergens*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Pinnularia divergens* W.M. Smith var. *divergens*); Ferreira da Silva et al. 2009 (as *Pinnularia divergens* W.M. Smith var. *divergens*)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia divergens*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia divergens*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
- Site: Pano, Largo River (Vouga Basin)

- Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia divergens* W. Smith)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia divergens* W.M. Smith)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia divergens* W.M. Smith)
 Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia divergens* W. Smith)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1914 (as *Navicula divergens* (W. Sm.) Grunow)
 Site: Sobral do Campo
 Reference: Zimmermann 1914 (as *Navicula divergens* (W. Sm.) Grunow)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergens* W. Smith)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia divergens* W. Smith); Gil et al. 1989-1990 (as *Pinnularia divergens*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia divergens* W. Smith)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Pinnularia divergens*)

Site: Not specified

References: Calado 1990 (as *Pinnularia divergens* W. Smith); Gil et al. 1991 (as *Pinnularia divergens*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia divergens* W. Smith, fossil)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Pinnularia divergens*)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia divergens* W. Sm., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia divergens* W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Caldeira

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia divergens* W.M. Smith)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia divergens* W.M. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Pinnularia divergens* W. Smith)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia divergens* W.M. Smith var. *divergens*)

***Pinnularia divergens* var. *undulata* (Peragallo & Héribaud in Héribaud) Hustedt 1914**, p. 145 (81); pl. 2, fig. 33 [CAS ref. 000493]

Basionym: *Navicula divergens* var. *undulata* Peragallo & Héribaud in Héribaud 1893 [CAS ref. 000481]

Distribution (Fig. 38):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Pinnularia divergens* W. Sm. var. *undulata* Hérib. et Perag.); Bourrelly & Manguin 1946a (as *Pinnularia divergens* W. Sm. var. *undulata* Hérib. et Perag.)

***Pinnularia divergentissima* (Grunow) Cleve 1895**, p. 77 [CAS ref. 000949]

Basionym: *Navicula divergentissima* Grunow in Cleve & Möller 1879b [CAS ref. 001977]

Distribution (Fig. 39):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)

Site: Águeda, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Municipality: Anadia (District: Aveiro)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia divergentissima* (Grunow) Cleve)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia divergentissima*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia divergentissima* (Grun.) Cleve)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: Calado 1990 (as *Pinnularia divergentissima* (Grunow) Cleve)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia divergentissima* (Grunow) Cleve var. *divergentissima*)

***Pinnularia dubitabilis* Hustedt 1949**, p. 105; pl. 6, fig. 11-13 [CAS ref. 000521]

Distribution (Fig. 40):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not specified
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia dubitabilis* Hustedt)

***Pinnularia erratica* Krammer 2000**, p. 96 [CAS ref. 009351]

Distribution (Fig. 41):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia erratica* Krammer)

***Pinnularia esox* Ehrenberg 1843b**, p. 420 (132); pl. 1/2, fig. 4 [CAS ref. 000294]

Distribution (Fig. 42):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not specified
References: Silva 1946a (as *Pinnularia esox* Ehr., fossil); Silva 1946b (as *Pinnularia esox* Ehr., fossil)

***Pinnularia gentilis* (Donkin) Cleve 1891**, p. 21 [CAS ref. 000229]

Basionym: *Navicula gentilis* Donkin 1872 [CAS ref. 001167]

Nomenclatural synonym: *Navicula nobilis* var. *gentilis* (Donkin) Van Heurck 1896 [CAS ref. 000897]

Distribution (Fig. 43):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula nobilis* (Ehr.) Kuetz. var. *gentilis* Donk.); Santos & Carvalho 2001 (as *Navicula nobilis* (Ehr.) Kuetz. var. *gentilis* Donk.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia gentilis* (Donkin) Cleve, fossil)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia gentilis* (Donk.) Cleve, fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia gentilis* (Donk.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia gentilis* (Donkin) Cleve)

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia gentilis* (Donkin?) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia gentilis* (Donkin?) Cleve)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gentilis* (Donkin) Cleve)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gentilis* (Donkin) Cleve)

***Pinnularia gibba* Ehrenberg 1843b**, p. 384 (96); pl. 2/1, fig. 24, pl. 3/1, fig. 4 [CAS ref. 000294]

Nomenclatural synonym: *Navicula gibba* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Synonym: *Pinnularia stauroptera* (Grunow) Rabenhorst 1864 [CAS ref. 000775], according to Krammer & Lange-Bertalot 1986, p. 423

Distribution (Fig. 44):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Campelos, Ave River (Ave Basin)

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Pinnularia gibba* Ehrenberg); Almeida 2001 (as *Pinnularia gibba* Ehrenberg); Nunes 2007 (as *Pinnularia gibba* Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Pinnularia gibba* Ehr.)

Municipality: Porto (District: Porto)

Site: Lordelo

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Quinta da Bandeira

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Subregion: Minho-Lima

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Subregion: Tâmega

Municipality: Lousada (District: Porto)

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*); Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Anadia (District: Aveiro)
 Site: São João de Azenha, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Pinnularia gibba* Ehr.)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia gibba* Ehrenberg)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Pinnularia gibba* Ehrenberg)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula gibba* (Ehr.) Kuetz.); Santos & Carvalho 2001 (as *Navicula gibba* (Ehr.) Kuetz.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Campo da Moita, Ocreza River (Tagus Basin)

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1910 (as *Navicula gibba* (Ehr.) Kuetz.)

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Pinnularia gibba*)

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Pinnularia gibba*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehrenberg)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia gibba*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Cabeçadas et al. 1980 (as *Pinnularia gibba*); Brito & Andrade 1992 (as *Navicula gibba* (?))

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Pinnularia gibba*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Pinnularia gibba* Ehrenberg)
 Subregion: Not specified
 Municipality: Not specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Pinnularia gibba*)
 Site: Not specified
 References: Calado 1990 (as *Pinnularia gibba* Ehrenberg); Gil et al. 1991
 (as *Pinnularia gibba*)

REGION: ALENTEJO

Subregion: Alto Alentejo
 Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990 (as *Pinnularia gibba*)
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Pinnularia gibba* Ehrenberg)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Pinnularia gibba* Ehrenberg)
 Subregion: Lezíria do Tejo
 Municipality: Alpiarça (District: Santarém)
 Site: Not specified
 Reference: Silva 1946b (as *Pinnularia gibba* Ehr., fossil)
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
 Municipality: Santarém (District: Santarém)
 Site: Ômnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Pinnularia gibba*)
 Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Pinnularia gibba*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Pinnularia gibba* Ehrenberg)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: O'Meara 1874 (as *Pinnularia gibba*); Dyer 1875 (as *Pinnularia gibba* Ehr.); Chaves 1908 (as *Navicula gibba* Ehr.); Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.); Gonçalves 1997 (as *Pinnularia gibba*)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula gibba* Ehr., fossil)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Pinnularia gibba* Ehrenberg)

Site: Lagoa do Negro

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Pinnularia gibba* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Pico Island

References: Johansson 1977 (as *Pinnularia gibba* Ehr.); Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia gibba* Ehrenberg)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia gibba* Ehrenberg)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia gibba* Ehrenberg)

Pinnularia gibba sensu W. Smith 1853, p. 58; pl. 19, fig. 180 [CAS ref. 000863]

Distribution (Fig. 45):

REGION: CENTRO
Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Pinnularia gibba*)
Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Pinnularia gibba*)

REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Pinnularia gibba*); Oliveira 1987 (as *Pinnularia gibba* W. Sm.)
Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Pinnularia gibba* W. Sm.)
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Pinnularia gibba*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Pinnularia gibba*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Pinnularia gibba*)

***Pinnularia gibba* var. *linearis* Hustedt 1930**, p. 327; fig. 604 [CAS ref. 000502]

Distribution (Fig. 46):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *linearis* Hust.)

Municipality: Not specified

Site: Pico Island

Reference: Johansson 1977 (as *Pinnularia gibba* v. *linearis* Hust.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia gibba* Ehrenberg var. *linearis* Hustedt)

***Pinnularia gibba* var. *mesogongyla* (Ehrenberg) Hustedt 1930**, p. 327; fig. 602 [CAS ref. 000502]

Basionym: *Pinnularia mesogongyla* Ehrenberg 1854 [CAS ref. 000966]

Distribution (Fig. 47):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia gibba* Ehr. var. *mesogongyla* (Ehr.) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Bolfiãr, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Pinnularia gibba* v. *mesogongyla*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hustedt)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Pinnularia gibba* v. *mesogongyla*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia gibba* Ehr. var. *mesogongyla* (Ehr.) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. v. *mesogongyla* (Ehr.) Hust.)

***Pinnularia gibba* var. *parva* (Ehrenberg) Hustedt 1930**, p. 327; fig. 603 [CAS ref. 000502]

Basionym: *Stauroptera parva* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 48):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Pinnularia gibba* v. *parva*)

***Pinnularia gibba* var. *parva* f. *minutissima* Manguin 1942**, p. 145; pl. 3, fig. 58 [CAS ref. 000623]

Distribution (Fig. 49):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia gibba* Ehr. var. *parva* (Ehr.) Grun. fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr. var. *parva* (Ehr.) Grun. fo. *minutissima* Manguin)

Municipality: Not specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Pinnularia gibba* Ehr. var. *parva* (Ehr.) Grun. fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia gibba* Ehr. var. *parva* (Ehr.) Grun. fo. *minutissima* Manguin)

***Pinnularia gibba* var. *sancta* (Grunow ex Cleve) F. Meister 1932**, p. 43; fig. 140 [CAS ref. 000644]

Basionym: *Pinnularia stauroptera* var. *sancta* Grunow ex Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 50):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)

- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia gibba* v. *sancta*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)
- Municipality: Vouzela (District: Viseu)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *sancta* (Grunow & Cleve) Meister)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Pinnularia gibba* v. *sancta*)

***Pinnularia gibba* var. *subundulata* (Ant. Mayer ex Hustedt) Frenguelli 1933, p. 396 [CAS ref. 000356]**

Basionym: *Pinnularia gibba* f. *subundulata* Ant. Mayer in Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 51):

REGION: NORTE

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia gibba* Ehr. fo. *subundulata* (Ehr.) Hust.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gibba* Ehr. v. *subundulata* Mayer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. fo. *subundulata* Mayer)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia gibba* Ehr. fo. *subundulata* Mayer)

***Pinnularia globiceps* W. Gregory 1856**, p. 10; pl. 1, fig. 34 [CAS ref. 000397]

Distribution:

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia globiceps* Gregory var. *globiceps*)

***Pinnularia gracilis* Heiden & Kolbe 1928**, p. 598; pl. 2, fig. 46 [CAS ref. 000473]

Distribution (Fig. 52):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)

Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia gracilis*)

***Pinnularia hemiptera* (Kützing) Rabenhorst 1853**, p. 42; pl. 6, fig. 17 [CAS ref. 000772]

Basionym: *Navicula hemiptera* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Pinnularia hemiptera* (Kützing) Cleve 1895 [CAS ref. -]

Distribution (Fig. 53):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia hemiptera* (Kütz.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Reference: Trelease 1897 (as *Navicula hemiptera* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Chaves 1908 (as *Navicula hemiptera* Ktz.); Manguin 1942 (as *Pinnularia hemiptera* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia hemiptera* (Kütz.) Cleve)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia hemiptera* (Kütz.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia hemiptera* (Kütz.) Cleve)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia hemiptera* (Kützing) Rabenhorst)

***Pinnularia hilseana* C. Janisch in Hilse 1860**, p. 82 [CAS ref. 002263]

Nomenclatural synonym: *Pinnularia subcapitata* var. *hilseana* (C. Janisch in Hilse) O. Müller 1898 [CAS ref. 001398]

Synonym: *Pinnularia subcapitata* W. Gregory 1856 [CAS ref. 000397], according to Krammer & Lange-Bertalot 1986, p. 426 and to Krammer 2000, p. 117

Distribution (Fig. 54):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Pinnularia subcapitata* v. *hilseana*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller); Gil et al. 1989-1990 (as *Pinnularia subcapitata* v. *hilseana*)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia subcapitata* Greg. v. *hilseana* (Janisch) O. Müller)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: Gil et al. 1991 (as *Pinnularia subcapitata* v. *hilseana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

- Site: Santa Bárbara
Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Janisch) Müller)
- Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Janisch) Müller)
- Site: Lagoa das Furnas
References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.)
- Site: Pico da Vara
References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll.)

***Pinnularia humilis* Krammer & Lange-Bertalot in Lange-Bertalot & Genkal 1999, p. 84; pl. 52b, fig. 8-14 [CAS ref. 009014]**

Distribution (Fig. 55):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia humilis* Krammer & Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia humilis* Krammer & Lange-Bertalot)

***Pinnularia inflata* (Kützing) Rabenhorst 1853, p. 44; pl. 5, fig. 10 c [CAS ref. 000772]**

Basionym: *Frustulia inflata* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Navicula inflata* (Kützing) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 56):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1909b (as *Navicula inflata* Kuetz.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula inflata* Ktz.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula inflata* Kützing)

***Pinnularia instabilis* (A.W.F. Schmidt) Metzeltin in Metzeltin & Lange-Bertalot 1998**, p. 178-179; pl. 194, fig. 1-3, pl. 205, fig. 4-5 [CAS ref. 007051]

Basionym: *Navicula instabilis* A.W.F. Schmidt in Schmidt et al. 1876 [CAS ref. 012450]

Distribution (Fig. 57):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula instabilis* A.S., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula instabilis* A. S., fossil)

***Pinnularia interrupta* W. Smith 1853**, p. 59; pl. 19, fig. 184 [CAS ref. 000863]

Synonym: *Pinnularia biceps* W. Gregory 1856 [CAS ref. 000397], according to Krammer 2000, p. 104

Distribution (Fig. 58):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia interrupta* W. Smith)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)

Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Subregion: Not specified
Municipality: Not specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Pinnularia interrupta* W. Smith)

REGION: CENTRO

Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia interrupta* W. Smith)
Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Pinnularia interrupta*)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Pinnularia interrupta* W. Smith)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Pinnularia interrupta*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia interrupta* W. Smith)
Subregion: Not specified
Municipality: Not specified

Site: Not specified

Reference: Almeida & Gil 2001 (as *Pinnularia interrupta* W. Smith)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia interrupta* W. Smith, fossil)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Pinnularia interrupta*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Pinnularia interrupta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia interrupta* Smith)

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Pinnularia interrupta* W. Smith)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia interrupta* W.M. Smith)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia interrupta* W.M. Smith)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia interrupta* W.M. Smith)

***Pinnularia interrupta* f. *minutissima* (Hustedt) Hustedt 1930, p. 317; fig. 574 [CAS ref. 000502]**

Basionym: *Pinnularia interrupta* var. *minutissima* Hustedt 1924 [CAS ref. 000497]

Distribution (Fig. 59):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Pinnularia interrupta* W. Smith fo. *minutissima* Hust.)

***Pinnularia interruptiformis* Krammer 2000**, p. 109 [CAS ref. 009351]

Replaced synonyms: *Pinnularia interrupta* f. *minor* J.B. Petersen 1928a [CAS ref. 000742]

Pinnularia biceps f. *petersenii* R. Ross 1947 [CAS ref. 000796]

Distribution (Fig. 60):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia biceps* Greg. v. *petersenii* Ross); Gil et al. 1989-1990 (as *Pinnularia biceps* v. *petersenii*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Pinnularia biceps* v. *petersenii*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

References: Manguin 1942 (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia interrupta* W. Sm. fo. *minor* B. Petersen)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia interruptiformis* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia interruptiformis* Krammer)

***Pinnularia jocolata* (Manguin) Krammer 2000**, p. 116 [CAS ref. 009351]

Basionym: *Pinnularia interrupta* var. *jocolata* Manguin in Bourrelly & Manguin 1952 [CAS ref. 000149]

Distribution (Fig. 61):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia jocolata* (Manguin) Krammer)

***Pinnularia johnsonii* W. Smith 1853**, p. 58; pl. 19, fig. 179 [CAS ref. 000863]

Nomenclatural synonym: *Navicula johnsonii* (W. Smith) O'Meara 1875 [CAS ref. 000694]

Distribution (Fig. 62):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Navicula johnsonii* (W. Smith) O'Meara, fossil)

***Pinnularia karelica* Cleve 1891**, p. 28; pl. 1, fig. 6 [CAS ref. 000229]

Distribution (Fig. 63):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelica* Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelica* Cleve)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelica* Cleve)

Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia karelica* Cleve)

***Pinnularia kuetzingii* Krammer 1992**, p. 104-105, 173; pl. 36, fig. 26-35 [CAS ref. 006262]

Synonym: *Pinnularia appendiculata* (C. Agardh) Cleve 1895 [CAS ref. 000949], according to Krammer 2000, p. 120

Distribution (Fig. 64):

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia kuetzingii* Krammer)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia kuetzingii* Krammer)

***Pinnularia lata* (Brébisson) W. Smith 1853**, p. 55; pl. 18, fig. 167
[CAS ref. 000863]

Basionym: *Frustulia lata* Brébisson 1838 [CAS ref. 000161]

Nomenclatural synonyms: *Navicula lata* (Brébisson) Kützing 1849 [CAS ref. 000596]

Pinnularia lata (Brébisson) Rabenhorst 1853 [CAS ref. 000772]

Distribution (Fig. 65):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula lata* Bréb.); Santos & Carvalho 2001 (as *Navicula lata* Bréb.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula lata* Bréb.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula lata* Bréb.); Santos & Carvalho 2001 (as *Navicula lata* Bréb.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia lata* (Bréb.) W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula lata*, fossil)

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Pinnularia lata* (Brébisson) Rabenhorst, fossil)

***Pinnularia legumen* Ehrenberg 1843b**, pl. 4/1, fig. 7 [CAS ref. 000294]

Nomenclatural synonym: *Navicula legumen* (Ehrenberg) Ehrenberg 1854 [CAS ref. 000966]

Distribution (Fig. 66):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia legumen* Ehr.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia legumen* Ehrenberg); Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia legumen* Ehrenberg)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia legumen* Ehrenberg)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia legumen* Ehrenberg)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula legumen* Ehr.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula legumen* Ehr.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula legumen*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia legumen* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia legumen* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia legumen* Ehr.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia legumen* Ehrenberg)

***Pinnularia lundii* Hustedt 1954**, p. 474; fig. 61-63 [CAS ref. 000529]

Distribution (Fig. 67):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia lundii* Hustedt)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)

- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia lundii* Hustedt)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Pinnularia lundii*); Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia lundii*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia lundii* Hustedt)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia lundii* Hustedt)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Reference: Krammer 1992 (as *Pinnularia lundii* Hustedt)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia lundii* Hustedt var. *lundii*)

***Pinnularia lundii* var. *linearis* Krammer 2000**, p. 98, 222; pl. 72, fig. 1, pl. 75, fig. 1-6 [CAS ref. 009351]

Distribution (Fig. 68):

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Not specified
Reference: Krammer 2000 (as *Pinnularia lundii* var. *linearis* Krammer)

***Pinnularia major* (Kützing) Rabenhorst 1853**, p. 42; pl. 6, fig. 5 [CAS ref. 000772]

Basionym: *Frustulia major* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonyms: *Navicula major* (Kützing) Ehrenberg 1838 [CAS ref. 000288]

Navicula major (Kützing) Kützing 1844 [CAS ref. 000595]

Pinnularia major (Kützing) Cleve 1895 [CAS ref. 000949]

Distribution (Fig. 69):

REGION: NORTE
Subregion: Ave
Municipality: Guimarães (District: Braga)
Site: Rio Celho
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
Municipality: Vila Nova de Famalicão (District: Braga)
Site: Ribeirão de Famalicão
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
Subregion: Cávado

- Municipality: Barcelos (District: Braga)
 Site: Barcelos, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
 Site: Manhente, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
- Municipality: Braga (District: Braga)
 Site: Padim da Graça, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
- Municipality: Esposende (District: Braga)
 Site: Marachão, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
- Municipality: Not specified
 Site: Entrepontes, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
 Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia major*)
- Subregion: Entre Douro e Vouga
 Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2010 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Subregion: Grande Porto
 Municipality: Porto (District: Porto)
 Site: Lordelo
 Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
- Municipality: Matosinhos (District: Porto)
 Site: Not specified
 Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
- Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Pinnularia major*)
- Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Gondar Stream (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Pinnularia major*)
- Municipality: Paredes de Coura (District: Viana do Castelo)
 Site: Insalde
 Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
- REGION: CENTRO
 Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Agadão, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
 Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia major*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)

- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia maior* (Kützing) Rabenhorst)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia major*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia major*)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia maior* (Kützing) Cleve)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Caldeirão
Reference: Carvalho 1913 (as *Navicula major* Kuetz.); Santos & Carvalho 2001 (as *Navicula major* Kuetz.)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Navicula major* Kuetz.)
- Site: Diz River
Reference: Carvalho 1913 (as *Navicula major* Kuetz.)
- Site: Guarda
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: Campo das Naves
Reference: Zimmermann 1914 (as *Navicula major* Kuetz.)
- Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Navicula major* Kuetz.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst); Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia major*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia major* (Kütz.) Rabenhorst)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Cabeçadas et al. 1980 (as *Pinnularia major*); Brito & Andrade 1992 (as *Navicula major* (?))

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinnularia major*)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia major*)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1991 (as *Pinnularia major*); Cerqueira da Silva et al. 1993 (as *Pinnularia major*); Cerqueira da Silva 1994 (as *Pinnularia major*)

Site: Not specified

References: Calado 1990 (as *Pinnularia major* (Kützing) Rabenhorst); Gil et al. 1991 (as *Pinnularia major*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia major* (Kütz.) Cleve, fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Pinnularia major* (Kütz.). Cleve, fossil)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia major* (Kütz.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia maior* (Kützing) Rabenhorst)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia maior* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Pinnularia major*)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia major* (Kützing)
Rabenhorst)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia major* (Kützing)
Rabenhorst)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia maior* (Kützing) Rabenhorst)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Navicula major* Kuetz.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Pinnularia maior* Kütz.)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia maior* (Kützing) Rabenhorst)

***Pinnularia major* var. *subacuta* (Ehrenberg) Cleve 1895**, p. 89
[CAS ref. 000949]

Basionym: *Pinnularia subacuta* Ehrenberg 1854 [CAS ref. 000966]

Nomenclatural synonym: *Navicula subacuta* (Ehrenberg) Ralfs in Pritchard 1861
[CAS ref. 001063]

Distribution (Fig. 70):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Navicula subacuta* Ehr., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Navicula subacuta* Ehr., fossil)

***Pinnularia mayeri* Krammer 1992**, p. 115; pl. 42, fig. 2-4 [CAS ref. 006262]

Synonym: *Pinnularia braunii* var. *amphicephala* (Ant. Mayer) Hustedt 1930 [CAS ref. 000502], according to Krammer 2000, p. 92

Distribution (Fig. 71):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia mayeri* Krammer)

***Pinnularia mesolepta* (Ehrenberg) W. Smith 1853**, p. 58; pl. 19, fig. 182 [CAS ref. 000863]

Basionym: *Navicula mesolepta* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 72):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula mesolepta* Ehr.); Santos & Carvalho 2001 (as *Navicula mesolepta* Ehr.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula mesolepta* Ehr.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula mesolepta* Ehr.)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Pinnularia mesolepta* (Ehrenberg) W. Smith)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia mesolepta* (Ehr.) W. Sm., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)

Municipality: Calheta (São Jorge Island)

Site: Ribeira de São João

Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Pinnularia mesolepta*)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia mesolepta* (Ehr.) W. Smith)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula mesolepta* Ehr.)

Municipality: Not specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg) W.M. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg) W.M. Smith)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia mesolepta* (Ehrenberg) W.M. Smith)

***Pinnularia mesolepta* var. *producta* (Grunow) Gutwinski 1891, p. 80 [CAS ref. 002254]**

Basionym: *Navicula mesolepta* var. *producta* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 73):

REGION: NORTE

Subregion: Tâmega

Municipality: Felgueiras (District: Porto)

Site: Sousa River (Douro Basin)

Reference: Zimmermann 1910 (as *Navicula mesolepta* Ehr. var. *producta* Grun.)

***Pinnularia mesolepta* var. *termes* (Van Heurck) Mills 1934b**, p. 1294 [CAS ref. 006149]

Basionym: *Navicula termes* Ehrenberg 1843 [CAS ref. -]

Nomenclatural synonym: *Navicula mesolepta* var. *termes* (Ehrenberg) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 74):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehrenberg var. *termes* Ehr.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula mesolepta* Ehrenberg var. *termes* Ehr.); Santos & Carvalho 2001 (as *Navicula mesolepta* Ehr. var. *termes* Ehr.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Navicula mesolepta* Ehr. var. *termes* Ehr.)

***Pinnularia metzeltinii* Krammer 2000**, p. 82, 219; pl. 59, fig. 8-16 [CAS ref. 009351]

Distribution (Fig. 75):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Krammer 2000 (as *Pinnularia metzeltinii* Krammer)

***Pinnularia microstauron* (Ehrenberg) Cleve 1891**, p. 28 [CAS ref. 000229]

Basionym: *Stauroptera microstauron* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 76):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Pinnularia microstauron* (Ehrenberg) Cleve); Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve); Ferreira da Silva et al. 2009 (as *Pinnularia microstauron* (Ehr.) Cleve var. *microstauron*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Pinnularia microstauron* (Ehr.) Cleve)

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia microstauron* (Ehr.) Cleve)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Pinnularia microstauron* (Ehr.) Cleve)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)

- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve);
Ferreira da Silva et al. 2009 (as *Pinnularia microstauron* (Ehr.) Cleve var. *microstauron*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Municipality: Aveiro (District: Aveiro)

- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia microstauron*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia microstauron* (Ehrenberg) Cleve)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia microstauron*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia microstauron* (Ehr.) P. Cleve)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia microstauron* (Ehr.) Cleve)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Pinnularia microstauron* (Ehrenberg) P. Cleve); Gil et al. 1991 (as *Pinnularia microstauron*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia microstauron* (Ehr.) Cleve, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Municipality: Corvo (Corvo Island)

Site: Not specified

Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Pinnularia microstauron* Ehrb.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Pinnularia microstauron* (Ehr.) Cleve)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve);

Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Pinnularia microstauron*)

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia microstauron* (Ehrenberg) Cleve)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia microstauron* (Ehr.) Cleve var. *microstauron*)

***Pinnularia microstauron* var. *ambigua* F. Meister 1912**, p. 162; pl. 28, fig. 2 [CAS ref. 000642]

Distribution (Fig. 77):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia microstauron* var. *ambigua* Meister, fossil)

***Pinnularia microstauron* f. *minutissima* Manguin 1942**, p. 144; pl. 3, fig. 55 [CAS ref. 000623]

Distribution (Fig. 78):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *minutissima* Manguin)

***Pinnularia microstauron* var. *rostrata* Krammer 2000**, p. 74, 217; pl. 51, fig. 8-18 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia microstauron* var. *rostrata* Krammer)

***Pinnularia nobilis* (Ehrenberg) Ehrenberg 1843b**, p. 384 (96); pl. 2/1, fig. 25, pl. 2/2, fig. 3 [CAS ref. 000294]

Basionym: *Navicula nobilis* Ehrenberg 1840a [CAS ref. 000293]

Nomenclatural synonym: *Navicula nobilis* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 79):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia nobilis* Ehr.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1909b (as *Navicula nobilis* (Ehr.) Kuetz.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia nobilis* Ehr., fossil)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Carvalhal diatomite

Reference: Silva 1949 (as *Pinnularia nobilis* Ehr., fossil)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia nobilis* Ehr., fossil)

Municipality: Rio Maior (District: Santarém)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula nobilis* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia nobilis* Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia nobilis* Ehr.)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Site: Lagoa Grande

References: Holmboe 1901 (as *Pinnularia nobilis* Ehr.); Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Site: Lagoa das Sete Cidades

Reference: Mölder 1947 (as *Pinnularia nobilis* Ehr.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)

Site: Pico da Vara

Reference: Holmboe 1901 (as *Pinnularia nobilis* Ehr.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Navicula nobilis*, fossil)

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia nobilis* (Ehrenberg) Ehrenberg, fossil)

***Pinnularia nodosa* (Ehrenberg) W. Smith 1856**, p. 96 [CAS ref. 001007]

Basionym: *Navicula nodosa* Ehrenberg 1838 [CAS ref. 000288]

Nomenclatural synonym: *Navicula nodosa* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 80):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia nodosa* (Ehr.) W. Smith)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula nodosa* K. var.?)

***Pinnularia obscura* Krasske 1932**, p. 117; pl. 3, fig. 22 [CAS ref. 000583]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia obscura* Krasske)

***Pinnularia parva* var. *lagerstedtii* f. *interrupta* J.B. Petersen 1928a**, p. 407; fig. 28 [CAS ref. 000742]

Distribution (Fig. 81):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia parva* (Greg.) Cleve var. *lagerstedtii* Cleve fo. *interrupta* B. Petersen)

***Pinnularia perirrorata* Krammer 2000**, p. 41, 211; pl. 17, fig. 11-22
[CAS ref. 009351]

Distribution (Fig. 82):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia perirrorata* Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia perirrorata* Krammer)

***Pinnularia polyonca* (Brébisson in Kützing) W. Smith 1856**, p. 95
[CAS ref. 001007]

Basionym: *Navicula polyonca* Brébisson in Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Pinnularia polyonca* (Brébisson) O. Müller 1898 [CAS ref. 001398]

Distribution (Fig. 83):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel

Reference: Zimmermann 1910 (as *Navicula polyonca* Bréb.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia polyonca*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Pinnularia polyonca* (Brébisson) W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Pinnularia polionca*)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia polyonca* (Bréb.) O. Müll.);

Bourrelly & Manguin 1946a (as *Pinnularia polyonca* (Bréb.) O. Müll.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia polyonca* (Brébisson)

W.M. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia polyonca* (Brébisson)

W.M. Smith)

***Pinnularia pseudogibba* Krammer 1992**, p. 129, 174; pl. 48, fig. 8-14 [CAS ref. 006262]

Distribution (Fig. 84):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia pseudogibba* Krammer)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia pseudogibba* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia pseudogibba* Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia pseudogibba* var. *pseudogibba* Krammer)

***Pinnularia quadrifasciata* (Ehrenberg) Ehrenberg 1854**, pl. 19, fig. 25 [CAS ref. 000966]

Basionym: *Navicula quadrifasciata* Ehrenberg 1840b [CAS ref. 000290]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Pinnularia quadrifasciata*)

***Pinnularia rabenhorstii* (Grunow) Krammer 2000**, p. 22 [CAS ref. 009351]

Basionym: *Navicula rabenhorstii* Grunow 1860 [CAS ref. 000427]

Synonym: *Pinnularia lata* var. *thuringiaca* (Rabenhorst) Ant. Mayer 1917b [CAS ref. 000636], according to Krammer 2000, p. 22

Distribution:

REGION: NORTE

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Pinnularia lata* (Bréb.) W. Smith fo. *thuringiaca* (Rabh.) A. Mayer)

***Pinnularia rhombarea* Krammer in Metzeltin & Lange-Bertalot 1998**, p. 185-186; pl. 175, fig. 1-5 [CAS ref. 007051]

Distribution (Fig. 85):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhombarea* Krammer)

***Pinnularia rhombarea* var. *biundulata* (O. Müller) Krammer 2000**, p. 76 [CAS ref. 009351]

Basionym: *Pinnularia microstauron* var. *biundulata* O. Müller 1898 [CAS ref. 001398]

Nomenclatural synonym: *Pinnularia microstauron* f. *biundulata* (O. Müller) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 86):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia microstauron* (Ehr.) Cleve fo. *biundulata* O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia microstauron* (Ehr.) Cleve fo. *biundulata* O. Müll.)

***Pinnularia rhomboelliptica* Krammer 2000**, p. 160-161, 233; pl. 149, fig. 4-9, pl. 159, fig. 1-5, pl. 194, fig. 2 [CAS ref. 009351]

Distribution (Fig. 87):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhomboelliptica* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rhomboelliptica* Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia rhomboelliptica* var. *rhomboelliptica* Krammer)

***Pinnularia rhomboelliptica* var. *inflata* Krammer 2000**, p. 161, 233; pl. 152, fig. 3-5, pl. 153, fig. 1-4 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia rhomboelliptica* var. *inflata* Krammer)

***Pinnularia rivularis* Hustedt 1935**, v. 14: p. 160; pl. 5, fig. 35 [CAS ref. 000509]

Distribution (Fig. 88):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Pinnularia rivularis* Hust.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia rivularis* Hustedt)

***Pinnularia rupestris* Hantzsch in Rabenhorst 1861**, no. 1203 [CAS ref. 011628]

Nomenclatural synonym: *Navicula rupestris* (Hantzsch in Rabenhorst) A.W.F. Schmidt in Schmidt et al. 1876 [CAS ref. 012450]

Distribution (Fig. 89):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia rupestris* Hantzsch)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia rupestris* Hantzsch in Rabenhorst 1861)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula rupestris* Hantzsch, fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula rupestris* Hantzsch, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia rupestris* Hantzsch)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia rupestris* Hantzsch)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia rupestris* Hantzsch)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia rupestris* Hantzsch in Rabenhorst 1861)

***Pinnularia schroederi* (Hustedt) Cholnoky 1959**, p. 16 [CAS ref. 000206]

Basionym: *Caloneis schroederi* Hustedt 1922a [CAS ref. 001277]

Distribution (Fig. 90):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not specified
Reference: Silva 1946b (as *Caloneis schröderi* Hust., fossil)

***Pinnularia septentrionalis* Krammer 2000**, p. 103 [CAS ref. 009351]

Replaced synonym: *Navicula mesolepta* var. *stauroneiformis* Grunow 1860 [CAS ref. 000427]

Distribution (Fig. 91):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)
Site: Diz River
Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)
Site: Guarda

Reference: Zimmermann 1910 (as *Navicula mesolepta* var. *stauroneiformis* Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula mesolepta* Ehr. var. *stauroneiformis* Grun.)

***Pinnularia similis* Hustedt 1937**, v. 15: p. 291; pl. 23, fig. 12-13
[CAS ref. 001012]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia similis* Hustedt)

***Pinnularia sinistra* Krammer 1992**, p. 105-106, 175-176; pl. 37, fig. 1-16 [CAS ref. 006262]

Distribution (Fig. 92):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia sinistra* Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia* cf. *sinistra* Krammer)

***Pinnularia stauroptera* (Grunow) Rabenhorst 1864**, p. 222 [CAS ref. 000775]

Basionym: *Navicula stauroptera* Grunow 1860 [CAS ref. 000427]

Synonym: *Pinnularia gibba* Ehrenberg 1843b [CAS ref. 000294], according to Krammer & Lange-Bertalot 1986, p. 423

Distribution (Fig. 93):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula stauroptera* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula stauroptera* Grun.); Santos & Carvalho 2001 (as *Navicula stauroptera* Grun.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula stauroptera* Grun.)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Pinnularia stauroptera*)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula stauroptera* Grun.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia stauroptera*)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia stauroptera*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Pinnularia stauroptera* Grun.)

***Pinnularia stauroptera* var. *interrupta* Cleve 1895**, p. 83 [CAS ref. 000949]

Distribution (Fig. 94):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Pinnularia stauroptera* Grun. var. *interrupta* Cl.)

***Pinnularia stomatophora* (Grunow in Schmidt et al.) Cleve 1895**, p. 83 [CAS ref. 000949]

Basionym: *Navicula stomatophora* Grunow in Schmidt et al. 1876 [CAS ref. 012450]

Distribution (Fig. 95):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Ribeirão de Famalicão

Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia stomatophora* Grunow)

Subregion: Tâmega

Municipality: Lousada (District: Porto)

Site: Not specified

Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia stomatophora* Grunow); Gil et al. 1989-1990 (as *Pinnularia stomatophora*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia stomatophora* Grunow); Gil et al. 1989-1990 (as *Pinnularia stomatophora*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Pinnularia stomatophora*)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel
Reference: Zimmermann 1910 (as *Navicula stomatophora* Grun.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia stomatophora* Grunow)
- Subregion: Not specified
- Municipality: Not specified
- Site: Not specified
References: Calado 1990 (as *Pinnularia stomatophora* Grunow); Gil et al. 1991 (as *Pinnularia stomatophora*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Pinnularia stomatophora* Grun.)

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Pinnularia stomatophora* Grun.);

Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia stomatophora* Grun.);

Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.); Mölder 1947 (as *Pinnularia stomatophora* Grun.)

Municipality: Not specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Pinnularia stomatophora* (Grunow) Cleve)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia stomatophora* (Grunow) Cleve)

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Pinnularia stomatophora* Grun.); Bourrelly & Manguin 1946a (as *Pinnularia stomatophora* Grun.)

***Pinnularia streptoraphe* Cleve 1891, p. 23 [CAS ref. 000229]**

Distribution (Fig. 96):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Pinnularia streptoraphe* Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia streptoraphe* Cleve)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia streptoraphe* Cleve var. *streptoraphe*)

***Pinnularia streptoraphe f. minor* Manguin 1942**, p. 146; pl. 3, fig. 61 [CAS ref. 000623]

Distribution (Fig. 97):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia streptoraphe* Cleve fo. *minor* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia streptoraphe* Cleve fo. *minor* Manguin)

***Pinnularia subbrevistriata* Krammer 2000**, p. 94 [CAS ref. 009351]

Distribution (Fig. 98):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subbrevistriata* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subbrevistriata* Krammer)

***Pinnularia subcapitata* W. Gregory 1856**, p. 9; pl. 1, fig. 30 [CAS ref. 000397]

Nomenclatural synonym: *Navicula subcapitata* (W. Gregory) Ralfs in Pritchard 1861 [CAS ref. 001063]

Synonym: *Pinnularia hilseana* C. Janisch in Hilse 1860 [CAS ref. 002263], according to Krammer & Lange-Bertalot 1986, p. 426 and to Krammer 2000, p. 117

Distribution (Fig. 99):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

- Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
 Subregion: Ave
 Municipality: Vieira do Minho (District: Braga)
 Site: Salamonde Reservoir, Cávado River (Cávado Basin)
 Reference: Oliveira 1982a (as *Pinnularia subcapitata*)
 Municipality: Vila Nova de Famalicão (District: Braga)
 Site: Ribeirão de Famalicão
 Reference: Zimmermann 1910 (as *Navicula subcapitata* (Greg.) Ralfs)
- Subregion: Cávado
 Municipality: Barcelos (District: Braga)
 Site: Barcelos, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)
 Site: Manhente, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)
 Municipality: Braga (District: Braga)
 Site: Padim da Graça, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)
 Municipality: Not specified
 Site: Entrepontes, Cávado River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)
 Site: Homem River (Cávado Basin)
 Reference: Cerqueira da Silva 1992 (as *Pinnularia subcapitata*)
- Subregion: Entre Douro e Vouga
 Municipality: Arouca (District: Aveiro)
 Site: Serra da Freita, Arões, Caima River (Vouga Basin)
 References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
 Municipality: São João da Madeira (District: Aveiro)
 Site: Uj River (Vouga Basin)
 Reference: Resende et al. 2010 (as *Pinnularia subcapitata* Gregory)
 Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 References: Almeida 1998 (as *Pinnularia subcapitata* Gregory); Almeida 2001 (as *Pinnularia subcapitata* Gregory); Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
 Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Subregion: Grande Porto
 Municipality: Vila Nova de Gaia (District: Porto)
 Site: Febros River (Douro Basin)
 Reference: Cerqueira da Silva 1993 (as *Pinnularia sub-capitata*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Pinnularia sub-capitata*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Oliveira 1982a (as *Pinnularia subcapitata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*); Almeida 1998 (as *Pinnularia subcapitata* Gregory)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Raivo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Redonda, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- References: Nunes et al. 2003 (as *Pinnularia subcapitata* Gregory); Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Pinnularia subcapitata* Gregory)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)

- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia subcapitata*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia subcapitata* Gregory)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia subcapitata* Gregory)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs); Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Meios

References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs); Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Navicula subcapitata* (Greg.) Ralfs); Santos & Carvalho 2001 (as *Navicula subcapitata* (Greg.) Ralfs)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: São João do Monte, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subcapitata* Gregory)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subcapitata* Gregory); Gil et al. 1989-1990 (as *Pinnularia subcapitata*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Pinnularia subcapitata*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Pinnularia subcapitata*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Site: Sabugueiro, Vale do Rossim Reservoir

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Pinnularia subcapitata* Gregory)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Pinnularia subcapitata*)

Site: Not specified

References: Calado 1990 (as *Pinnularia subcapitata* Gregory); Gil et al.

1991 (as *Pinnularia subcapitata*); Almeida & Gil 2001 (as *Pinnularia*

subcapitata Gregory)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula subcapitata*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990 (as *Pinnularia subcapitata*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia subcapitata* Gregory)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia subcapitata* Gregory)

- Site: Roxo Reservoir, Roxo Stream (Sado Basin)
 Reference: Oliveira 1976 (as *Navicula subcapitata* Greg.)
 Municipality: Mértola (District: Beja)
 Site: Acid mine drainage of the São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Pinnularia subcapitata* Gregory)
 Site: Reservoir in the abandoned São Domingos mine
 Reference: Gerhardt et al. 2008 (as *Pinnularia subcapitata* Gregory)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
 Site: Lagoa da Achada
 Reference: Mölder 1947 (as *Pinnularia subcapitata* Greg.)
 Site: Lagoa da Falca (Terceira Island)
 Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)
 Site: Lagoa da Joaninha
 Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Krieger 1931 (as *Pinnularia subcapitata* Greg.)
 Site: Lagoa das Sete Cidades
 Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs, fossil)
 Site: Tambores, Furnas
 Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs, fossil)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
 Site: Lagoa das Furnas
 Reference: Chaves 1908 (as *Navicula subcapitata* Ralfs)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
 Site: Pico da Vara
 Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg.)
 Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Negro
 Reference: Gonçalves 1996 (as *Pinnularia subcapitata* Gregory)
 Municipality: Ribeira Grande (São Miguel Island)
 Site: Ribeira Grande
 Reference: Gonçalves et al. 2008 (as *Pinnularia subcapitata*)
 Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Pinnularia subcapitata*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Pinnularia subcapitata*)
 Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcapitata* Gregory)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia subcapitata* Gregory var. *subcapitata*)

***Pinnularia subcapitata* var. *appendiculata* Willi Krieger 1930**, p. 143; pl. 4, fig. 12 [CAS ref. 001736]

Distribution (Fig. 100):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Krieger 1931 (as *Pinnularia subcapitata* Greg. var. *appendiculata*)

***Pinnularia subcapitata* var. *azorica* Holmboe 1901**, v. 39: p. 274 [CAS ref. -]

Distribution (Fig. 101):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Pinnularia subcapitata* Greg. var. *azorica*)

***Pinnularia subcapitata* var. *elongata* Krammer 1992**, p. 108, 176; pl. 38, fig. 1-11, pl. 39, fig. 1-15 [CAS ref. 006262]

Distribution (Fig. 102):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)

References: Nunes 2007 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer); Ferreira da Silva et al. 2009 (as *Pinnularia subcapitata* Gregory var. *elongata* Krammer)

***Pinnularia subcapitata* var. *hilseana* f. *undulata* O. Müller ex Hustedt 1930**, p. 317 [CAS ref. 000502]

Distribution (Fig. 103):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll. fo. *undulata* O. Müll.); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *hilseana* (Jan.) O. Müll. fo. *undulata* O. Müll.)

***Pinnularia subcapitata* var. *hybrida* (Grunow in Van Heurck) Frenguelli 1933**, p. 401 [CAS ref. 000356]

Basionym: *Navicula bicapitata* var. *hybrida* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 104):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst. var. *hybrida* Grun.)

Site: Guarda

Reference: Carvalho 1913 (as *Navicula bicapitata* Lagerst. var. *hybrida* Grun.)

***Pinnularia subcapitata* var. *paucistriata* (Grunow in Van Heurck) Cleve 1895**, p. 75 [CAS ref. 000949]

Basionym: *Navicula subcapitata* var. *paucistriata* Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 105):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Pinnularia subcapitata* v. *paucistriata* Grun.)

***Pinnularia subcapitata* var. *paucistriata* f. *lata* Manguin 1942**, p. 143; pl. 3, fig. 52 [CAS ref. 000623]

Distribution (Fig. 106):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. v. *paucistriata* Grun. fo. *lata* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. v. *paucistriata* Grun. fo. *lata* Manguin)

***Pinnularia subcapitata* var. *stauroneiformis* (Van Heurck) O. Müller 1898**, p. 20 [CAS ref. 001398]

Basionym: *Navicula subcapitata* var. *stauroneiformis* Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 107):

REGION: NORTE

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Navicula subcapitata* v. *stauroneiformis*)

***Pinnularia subcapitata* var. *sublanceolata* f. *typica* J.B. Petersen 1928a**, p. 409; fig. 30 b [CAS ref. 000742]

Distribution (Fig. 108):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Pinnularia subcapitata* Greg. var. *sublanceolata* B. Petersen fo. *typica* B. Petersen); Bourrelly & Manguin 1946a (as *Pinnularia subcapitata* Greg. var. *sublanceolata* B. Petersen fo. *typica* B. Petersen)

***Pinnularia subcommutata* Krammer 1992**, p. 136-137; pl. 52, fig. 10
[CAS ref. 006262]

Distribution (Fig. 109):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subcommutata* Krammer)

***Pinnularia subgibba* Krammer 1992**, p. 126, 176; pl. 46, fig. 1-4, 6-7, pl. 47, fig. 2-4, 6 [CAS ref. 006262]

Distribution (Fig. 110):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Pinnularia subgibba*)

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Pinnularia subgibba* Krammer)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia subgibba* var. *subgibba* Krammer)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia subgibba* Krammer var. *subgibba*)

***Pinnularia subgibba* var. *hustedtii* Krammer 1992**, p. 127-128 & 177; pl. 47, fig. 1 [CAS ref. 006262]

Distribution (Fig. 111):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: Oliveira de Azeméis (District: Aveiro)
Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Pinnularia subgibba* Krammer var. *hustedtii* Krammer)

***Pinnularia subgigas* Krammer 2000**, p. 180, 238; pl. 200, fig. 2-5
[CAS ref. 009351]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia subgigas* Krammer)

***Pinnularia subrostrata* (A. Cleve) Cleve-Euler 1955**, p. 58 [CAS ref. 001043]

Basionym: *Pinnularia divergentissima* var. *subrostrata* A. Cleve 1895 [CAS ref. 000243]

Distribution (Fig. 112):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Uj River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia subrostrata* Cleve)

***Pinnularia subrupestris* Krammer 1992**, p. 143, 177; pl. 53, fig. 8-13
[CAS ref. 006262]

Distribution (Fig. 113):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subrupestris* Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia subrupestris* Krammer)

***Pinnularia subsolaris* (Grunow) Cleve 1895**, p. 84 [CAS ref. 000949]

Basionym: *Navicula subsolaris* Grunow 1882 [CAS ref. 000442]

Distribution (Fig. 114):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Bolfiár, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia subsolaris*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Pinnularia subsolaris* (Grun.) P. Cleve); Gil et al. 1989-1990 (as *Pinnularia subsolaris*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Corvo (Corvo Island)

Site: Not specified

Reference: Mölder 1947 (as *Pinnularia subsolaris* (Grun.) Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) Cleve); Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) Cleve)

***Pinnularia subsolaris* f. *mutabilis* Manguin 1942, p. 144; pl. 3, fig. 56 [CAS ref. 000623]**

Distribution (Fig. 115):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Comprida

References: Manguin 1942 (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin); Bourrelly & Manguin 1946a (as *Pinnularia subsolaris* (Grun.) P. Cleve fo. *mutabilis* Manguin)

***Pinnularia sudetica* (Hilse in Rabenhorst) Peragallo 1903, p. 725**
[CAS ref. 001463]

Basionym: *Navicula sudetica* Hilse 1860 [CAS ref. 002263]

Nomenclatural synonym: *Pinnularia viridis* var. *sudetica* (Hilse) Hustedt 1930
[CAS ref. 000502]

Distribution (Fig. 116):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)

Municipality: Mealhada (District: Aveiro)

- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis* v. *sudetica*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hustedt)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Pond near Lagoa Comprida
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)
- Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)
- Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Pinnularia sudetica* (Hilse) Peragallo)

REGION: ALENTEJO

- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Pinnularia viridis* var. *sudetica* (Hilse) Hust., fossil)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)
- Site: Pico da Vara
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia sudetica* Hilse)

REGION: AUTONOMOUS REGION OF MADEIRA

- Municipality: Santana (Madeira Island)
Site: Ribeiro Frio

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *sudetica* (Hilse) Hust.)

***Pinnularia superdivergentissima* Chaumont & H. Germain 1976**, p. 587-588; fig. 1, 2 [CAS ref. 008105]

Distribution (Fig. 117):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia superdivergentissima* Chaumont & Germain)

***Pinnularia tabellaria* Ehrenberg 1843b**, p. 422 (134); pl. 2/1, fig. 26, pl. 3/1, fig. 7 [CAS ref. 000294]

Nomenclatural synonym: *Navicula tabellaria* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 118):

REGION: CENTRO

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Outeiro do Bispo

Reference: Zimmermann 1909b (as *Navicula tabellaria* Kuetz.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Pinnularia tabellaria* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Reference: Trelease 1897 (as *Navicula tabellaria* Kütz.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula tabellaria* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Navicula tabellaria* Ktz., fossil)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pinnularia tabellaria* Ehrenberg)

Site: Terceira Island

References: Holmboe 1901 (as *Pinnularia tabellaria* Ehr.); Gonçalves et al. 2010 (as *Pinnularia tabellaria* Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava

Reference: Zimmermann 1909a (as *Navicula tabellaria* Kuetz.)

***Pinnularia tirolensis* (Metzeltin & Krammer) Krammer 2000**, p. 88 [CAS ref. 009351]

Basionym: *Pinnularia subgibba* var. *tirolensis* Metzeltin & Krammer in Lange-Bertalot & Metzeltin 1996 [CAS ref. 007048]

Distribution (Fig. 119):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia tirolensis* (Metzeltin & Krammer) Krammer)

***Pinnularia tirolensis* var. *julma* Krammer 2000**, p. 88, 220; pl. 65, fig. 6, 11-13 [CAS ref. 009351]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia tirolensis* var. *julma* Krammer)

***Pinnularia viridiformis* Krammer 1992**, p. 160-161; pl. 1, fig. 4, pl. 4, fig. 1-4, pl. 68, fig. 1-4, pl. 69, fig. 1-5 [CAS ref. 006262]

Distribution (Fig. 120):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridiformis* Krammer)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia viridiformis* Krammer)

***Pinnularia viridis* (Nitzsch) Ehrenberg 1843b**, p. 305 (17), 385; pl. 1/1, fig. 7 [CAS ref. 000294]

Basionym: *Bacillaria viridis* Nitzsch 1817 [CAS ref. 000684]

Nomenclatural synonyms: *Navicula viridis* (Nitzsch) Ehrenberg 1835 [CAS ref. 000284]

Navicula viridis (Nitzsch) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 121):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Celho

Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)

Municipality: Vieira do Minho (District: Braga)

Site: Malhadoira, Ventosa (Serra do Gerês)

Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Pico de Borrageira (Serra do Gerês)

Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

- Reference: Silva 1950b (as *Pinnularia viridis* (Nitzsch) Ehr.)
Municipality: Porto (District: Porto)
Site: Lordelo
Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Municipality: Vila Nova de Gaia (District: Porto)
Site: Quinta da Bandeira
Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Subregion: Minho-Lima
Municipality: Arcos de Valdevez (District: Viana do Castelo)
Site: Altar de Cabrões (Serra do Gerês)
Reference: González-Guerrero 1949 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Municipality: Paredes de Coura (District: Viana do Castelo)
Site: Insalde
Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
Subregion: Not specified
Municipality: Not specified
Site: Serra do Gerês
References: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.);
Sampaio 1950 (as *Pinnularia viridis* (Nitz.) Ehrenb.)

REGION: CENTRO

- Subregion: Baixo Mondego
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*); Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
Site: Bolfiar, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg); Gil et al. 1989-1990 (as *Pinnularia viridis*)

- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Pinnularia viridis*); Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Pinnularia viridis*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Pinnularia viridis*)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes

- Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Caldeirão
 References: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Cubo
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Diz River
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Lameirinhas
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Meios
 References: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.); Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Nueme
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Porto da Carne
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Vila Patrício
 Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Sobral do Campo
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Subregion: Cova da Beira
 Municipality: Fundão (District: Castelo Branco)
 Site: Castelo Novo, Alpreade Stream (Tagus Basin)
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Outeiro do Bispo
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Serra da Gardunha
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Subregion: Dã-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehrenberg)
- Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Casal do Feijão, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Catefica
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Ponte de Rol, Sizandro River
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
 Site: Santa Cruz
 Reference: Zimmermann 1914 (as *Navicula viridis* (Nitzsch) Kuetz.)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 References: Calado 1990 (as *Pinnularia viridis* (Nitzsch) Ehrenberg); Gil et al. 1991 (as *Pinnularia viridis*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pinnularia viridis* (Nitzsch) Ehr., fossil)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Navicula viridis*); Oliveira 1987 (as *Navicula viridis* Kz.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula viridis*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia viridis* (Nitzsch) Ehr., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Navicula viridis*)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Navicula viridis* Kg., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Navicula viridis* Kg., fossil)

Site: Not specified

Reference: Silva 1946b (as *Pinnularia viridis* (Nitzsch) Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)

Site: Santa Bárbara

Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)

Site: Not specified

Reference: Trelease 1897 (as *Navicula viridis* Kütz.)
Municipality: Calheta (São Jorge Island)
Site: Pico do Calheta
Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Municipality: Horta (Faial Island)
Site: Flamengos
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Municipality: Lajes das Flores (Flores Island)
Site: Fazenda
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Lagoa Rasa
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Pinnularia viridis* Ehrb.)
Site: Lagoa Grande
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Site: Pico do Carvão
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Site: Pico da Cruz
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz.)
Site: Furnas
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
Site: Jose de Canto park, near Furnas
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Lagoa das Furnas

- References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Chaves 1908 (as *Navicula viridis* Ktz.); Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico da Vara
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.); Mölder 1947 (as *Pinnularia viridis* (Nitzsch) Ehr.)
- Site: Pico Verde
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Ribeira Quente
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz., fossil)
- Site: Tambores, Furnas
Reference: Chaves 1908 (as *Navicula viridis* Ktz., fossil)
- Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Lagoa Comprida
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Ribeira Grande (Flores Island)
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Site: Not specified
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
- Municipality: Not specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
- Site: Flores Island

- Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr.); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: Rochão (Flores Island)
Reference: Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr.)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Terceira Island
References: Holmboe 1901 (as *Pinnularia viridis* (Nitzsch) Ehr.); Gonçalves et al. 2010 (as *Pinnularia viridis* (Nitzsch) Ehrenberg)
Site: Not specified
Reference: Gonçalves 2008 (as *Pinnularia viridis* var. *viridis* (Nitzsch) Ehrenberg morphotype 1)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Santa Luzia Stream

Reference: Zimmermann 1909a (as *Navicula viridis* (Nitzsch) Kuetz.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia viridis* (Nitzsch) Ehrenberg var. *viridis* morphotype 1)

***Pinnularia viridis* var. *commutata* (Grunow in Schmidt et al. 1876) Cleve 1895, p. 91 [CAS ref. 000949]**

Basionym: *Navicula commutata* Grunow in Schmidt et al. 1876 [CAS ref. 012450]

Nomenclatural synonym: *Navicula viridis* var. *commutata* (Grunow in Schmidt et al.) Truan y Luard 1884 [CAS ref. 002374]

Distribution (Fig. 122):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Meios

References: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Vela

Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Subregion: Cova da Beira

Municipality: Covilhã (District: Castelo Branco)

Site: Covilhã

References: Zimmermann 1910 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.); Santos & Carvalho 2001 (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *commutata* (Grun.) P. Cleve)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula viridis* Ktz. var. *commutata* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Curral dos Romeiros, João Gomes Stream

Reference: Zimmermann 1909a (as *Navicula viridis* (Nitzsch) Kuetz. var. *commutata* Grun.)

***Pinnularia viridis* var. *fallax* Cleve 1895**, p. 91 [CAS ref. 000949]

Distribution (Fig. 123):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

Municipality: Povoação (São Miguel Island)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Pinnularia viridis* var. *fallax* Cl.)

***Pinnularia viridis* var. *intermedia* Cleve 1891**, p. 22 [CAS ref. 000229]

Distribution (Fig. 124):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Pinnularia viridis* (Nitzs.) Ehr. v. *intermedia* Cleve); Bourrelly & Manguin 1946a (as *Pinnularia viridis* (Nitzs.) Ehr. v. *intermedia* Cleve)

***Pinnularia* sp.**

Distribution (Fig. 125):

REGION: NORTE

Subregion: Cávado

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia* sp.)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Pinnularia* sp.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Seixas, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinnularia* sp.)

Municipality: Monção (District: Viana do Castelo)

Site: Monção, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinnularia* sp.)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Pinnularia* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinnularia* sp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Pinnularia* sp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinnularia* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinnularia* sp.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Pinnularia* sp.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Pinnularia* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Pinnularia* sp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Pinnularia* sp.); Oliveira 1996
(as *Pinnularia* sp.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Pinnularia* spp.)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Pinnularia* sp.)
Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Pinnularia* sp.); Fernandes et al. 1987 (as *Pinnularia* sp.)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Pinnularia* sp.)
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pinnularia* sp.)
Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pinnularia* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Pinnularia* spp.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Pinnularia* sp.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Pinnularia* species)

***Placoneis* Mereschowsky 1903, p. 3**
[CAS ref. 001384]

***Placoneis anglica* (Ralfs in Pritchard) R.L. Lowe in Johansen et al. 2004, p. 24 [CAS ref. 012667]**

Basionym: *Navicula anglica* Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 126):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Navicula anglica*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula anglica*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula anglica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula anglica*)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

References: Gil 1988 (as *Navicula anglica* Ralfs); Gil et al. 1989-1990 (as *Navicula anglica*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula anglica* Ralfs)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Navicula anglica*)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula anglica*)

Subregion: Not specified

Municipality: Not specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Navicula anglica*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Navicula anglica*); Oliveira 1996 (as *Navicula anglica*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Navicula anglica* Ralfs)

Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)

Municipality: Santiago do Cacém (District: Setúbal)
Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)

Subregion: Alto Alentejo

Municipality: Castelo de Vide (District: Portalegre)
Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)

Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula anglica* Ralfs)

Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Navicula anglica* Ralfs)

Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Navicula anglica*)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Navicula anglica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Navicula anglica* Ralfs); Bourrelly & Manguin 1946a (as *Navicula anglica* Ralfs)

***Placoneis clementioides* (Hustedt) E.J. Cox 1987**, p. 155; fig. 13-16, 39, 41, 43, 44 [CAS ref. 006795]

Basionym: *Navicula clementioides* Hustedt 1944 [CAS ref. 002271]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Navicula clementioides* Hustedt)

***Placoneis clementis* (Grunow) E.J. Cox 1987**, p. 155; fig. 28-33 [CAS ref. 006795]

Basionym: *Navicula clementis* Grunow 1882 [CAS ref. 000442]

Distribution (Fig. 127):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Municipality: Not specified

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula clementis*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula clementis* Grunow); Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Navicula clementis*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Navicula clementis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula clementis* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula clementis* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

References: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox); Ferreira da Silva et al. 2009 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Placoneis clementis* (Grun.) Cox)

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula clementis* Grunow); Gil et al. 1989-1990 (as *Navicula clementis*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Navicula clementis* Grunow); Gil et al. 1989-1990 (as *Navicula clementis*)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula clementis*)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula clementis* Grunow)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula clementis* Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula clementis* Grunow)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Navicula clementis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis clementis* (Grunow) Cox)

Site: Not specified

Reference: Gonçalves 2008 (as *Placoneis clementis* (Grunow) Cox)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Navicula clementis* Grunow)

***Placoneis dicephala* (W. Smith) Mereschkowsky 1903, p. 7; pl. 1, fig. 11, 12, 13, 21, 22 [CAS ref. 001384]**

Basionym: *Navicula dicephala* W. Smith 1853 [CAS ref. -]

Distribution (Fig. 128):

REGION: CENTRO

- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Navicula dicephala* W. Smith); Gil et al. 1989-1990 (as *Navicula dicephala*)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Navicula dicephala* W. Smith); Gil et al. 1989-1990 (as *Navicula dicephala*)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula dicephala*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula dicephala*)
- Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Navicula dicephala*)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula dicephala* W. Smith)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Navicula dicephala*)

Municipality: Torres Novas (District: Santarém)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula dicephala* W. Sm.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula dicephala*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula dicephala*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula dicephala*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Navicula dicephala*)

Municipality: Sintra (District: Lisboa)

Site: Mula Reservoir, Mula Stream (Western Streams Basin)

Reference: Ferreira 1986 (as *Navicula dicephala*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Navicula dicephala*); Oliveira 1987 (as *Navicula dicephala* (Ehr.) W. Sm.)

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

Reference: Oliveira & Monteiro 1995 (as *Navicula dicephala*); Oliveira 1996 (as *Navicula dicephala*)

Subregion: Alentejo Litoral

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

- Reference: Oliveira 1984a (as *Navicula dicephala*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
- Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
- Reference: Oliveira 1984c (as *Navicula dicephala*)
- Municipality: Gavião (District: Portalegre)
- Site: Belver Reservoir, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Nisa (District: Portalegre)
- Site: Barca da Amieira, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Site: Fratel Reservoir, Tagus River (Tagus Basin)
- References: INIP 1977 (as *Navicula dicephala* W.Sm.); Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Ponte de Sôr (District: Portalegre)
- Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
- Reference: Coutinho 1990 (as *Navicula dicephala*)
- Subregion: Baixo Alentejo
- Municipality: Almodôvar (District: Beja)
- Site: Monte da Vinha, Guadiana River (Guadiana Basin)
- Reference: Andrade & Brito 1991 (as *Navicula dicephala*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
- Site: Valada, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Chamusca (District: Santarém)
- Site: Chamusca, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula dicephala*)
- Municipality: Salvaterra de Magos (District: Santarém)
- Site: Magos Reservoir, Magos Stream (Tagus Basin)
- Reference: Oliveira 1984a (as *Navicula dicephala*)
- Municipality: Santarém (District: Santarém)
- Site: Ómnias, Tagus River (Tagus Basin)
- References: Fernandes et al. 1987 (as *Navicula dicephala*); Brito & Andrade 1992 (as *Navicula dicephala*)
- Subregion: Not specified
- Municipality: Not specified
- Site: Rocha da Galé, Guadiana River (Guadiana Basin)
- Reference: Andrade & Brito 1991 (as *Navicula dicephala*)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Not specified
- Site: Flores Island
- Reference: Gonçalves et al. 2010 (as *Placoneis dicephala* (W.M. Smith) Mereschkowsky)
- Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis dicephala* (W.M. Smith) Mereschkowsky)
Site: Not specified
Reference: Gonçalves 2008 (as *Placoneis dicephala* (W. Smith) Mereschkowsky)

***Placoneis elginensis* (W. Gregory) E.J. Cox 1987**, p. 155; fig. 20-27, 34, 45, 46, 51 [CAS ref. 006795]

Basionym: *Pinnularia elginensis* W. Gregory 1856 [CAS ref. 000397]

Nomenclatural synonym: *Navicula elginensis* (W. Gregory) Ralfs in Pritchard 1861 [CAS ref. 001063]

Distribution (Fig. 129):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula elginensis* (Gregory) Ralfs)

Municipality: Estarreja (District: Aveiro)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula elginensis* (Gregory) Ralfs)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Navicula elginensis* (Gregory) Ralfs)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis elginensis* (Greg) Cox)

Site: Not specified

Reference: Gonçalves 2008 (as *Placoneis* cf. *elginensis* (Greg.) Cox)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Navicula elginensis* (Gregory) Ralfs in Pritchard)

***Placoneis exigua* (W. Gregory) Mereschkowsky 1903**, p. 13; pl. 1, fig. 17 [CAS ref. 001384]

Basionym: *Pinnularia exigua* W. Gregory 1854 [CAS ref. 000393]

Nomenclatural synonym: *Navicula exigua* (W. Gregory) Grunow in Van Heurck 1880 [CAS ref. 000895]

Distribution (Fig. 130):

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula exigua*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula exigua* (Greg.) Müller)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Placoneis exigua* (Gregory) Mereschkowsky)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Placoneis exigua* (Gregory) Mereschkowsky)

***Placoneis gastrum* (Ehrenberg) Mereschkowsky 1903**, p. 13; pl. 1, fig. 17 [CAS ref. 001384]

Basionym: *Pinnularia gastrum* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonym: *Navicula gastrum* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 131):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gastrum* (Ehrenberg) Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula gastrum* (Ehrenberg) Kützing)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)

Site: Caldeirão

References: Carvalho 1913 (as *Navicula gastrum* Ehr.); Santos & Carvalho 2001 (as *Navicula gastrum* Ehr.)

Site: Diz River

Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Navicula gastrum* Ehr.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula gastrum* (Ehr.) Kützing)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Navicula gastrum*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Navicula gastrum*); Oliveira 1996 (as *Navicula gastrum*)

Subregion: Alto Alentejo
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Navicula gastrum*)

***Placoneis neglecta* (Krasske) R.L. Lowe in Johansen et al. 2004**, p. 24 [CAS ref. 012667]

Basionym: *Navicula neglecta* Krasske 1929 [CAS ref. 000582]

Nomenclatural synonym: *Navicula dicephala* var. *neglecta* (Krasske) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 132):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala* v. *neglecta*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula dicephala* v. *neglecta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Navicula dicephala* v. *neglecta* (Krasske) Hust.)

***Placoneis placentula* (Ehrenberg) Heinzerling 1908**, p. 71; pl. 1, fig. 20 [CAS ref. 001261]

Basionym: *Pinnularia placentula* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonym: *Navicula placentula* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 133):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Placoneis placentula* (Ehrenberg) Heinzerling)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula placentula* (Ehrenberg) Kützing)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula placentula* (Ehr.) Kützing)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula placentula*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Navicula placentula* Ehrenberg)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula placentula*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula placentula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Navicula placentula* (Ehr.) Kützing)

Municipality: Not specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Placoneis placentula* (Ehrenberg) Mereschkovsky)

***Placoneis porifera* (Hustedt) E.J. Cox 2003**, p. 74 [CAS ref. -]

Basionym: *Navicula porifera* Hustedt 1944 [CAS ref. 002271]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Navicula porifera* Hustedt)

***Placoneis pseudanglica* E.J. Cox 1987**, p. 155; figs 11, 12, 17-19, 47, 49, 50 [CAS ref. 006795]

Basionym: *Navicula pseudanglica* Lange-Bertalot in Krammer & Lange-Bertalot 1985 [CAS ref. 006263]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Almeida 1998 (as *Navicula pseudanglica* Lange-Bertalot);
INAG 2008 (as *Placoneis pseudanglica* (Lange-Bertalot) Cox)

***Planothidium* Round & Bukhtiyarova 1996**, p. 351
[CAS ref. 006778]

***Planothidium biporum* (M.H. Hohn & Hellerman) Lange-Bertalot 1999**, p. 281 [CAS ref. 012674]

Basionym: *Achnanthes biporoma* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Nomenclatural synonym: *Achnanthes lanceolata* subsp. *biporoma* (M.H. Hohn & Hellerman) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes lanceolata* (Bréb.) Grun. ssp. *biporoma* (Hohn & Hell.) Lange-Bert.)

***Planothidium calcar* (Cleve) Edlund in Edlund et al. 2001**, p. 88
[CAS ref. 009412]

Basionym: *Achnanthes calcar* Cleve 1891 [CAS ref. 000229]

Distribution (Fig. 134):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

References: Johansson 1977 (as *Achnanthes* cfr. *calcar* Cleve); Gonçalves et al. 2010 (as *Planothidium calcar* (Cleve) M. B. Edlund)

***Planothidium dau* (Foged) Lange-Bertalot 1999**, p. 281 [CAS ref. 012674]

Basionym: *Achnanthes dau* Foged 1962 [CAS ref. 000329]

Nomenclatural synonym: *Achnantheiopsis dau* (Foged) Lange-Bertalot 1997
[CAS ref. 007046]

Distribution (Fig. 135):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes dau* Foged)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes dau* Foged)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Achnantheiopsis dau* (Foged) Lange-Bertalot)

Site: Valmaior (downstream of the mouth of River Filvida), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau*i (Foged) Lange-Bertalot)
Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau*i (Foged) Lange-Bertalot)
Site: Pessegueiro do Vouga, Vouga River, downstream of the mouth of Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis dau*i (Foged) Lange-Bertalot)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Almeida & Gil 2001 (as *Achnanthes dau*i Foged)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Planothidium dau*i (Foged) Lange-Bertalot)
Site: Not specified
Reference: Gonçalves 2008 (as *Planothidium dau*i (Foged) Lange-Bertalot)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Achnanthes dau*i Foged var. *dau*i)

***Planothidium delicatulum* (Kützing) Round & Bukhtiyarova 1996,**
p. 353 [CAS ref. 006778]

Basionym: *Achnantheidium delicatulum* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Achnanthes delicatula* (Kützing) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 136):

REGION: NORTE
Subregion: Entre Douro e Vouga
Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2010 (as *Planothidium delicatulum* (Kütz.)
Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

References: De Toni 1887 (as *Achnanthes delicatula* Kütz.); Colmeiro
1889 (as *Achnanthidium delicatulum* Kg.); Zimmermann 1909b (as
Achnanthes delicatula (Kuetz.) Grun.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: Abrantes et al. 2006 (as *Achnanthes delicatula*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River
(Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes delicatula* (Kützing) Grun. ssp.
delicatula Grunow in Cl. & Grun.)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga
Basin)

Reference: Nunes 2007 (as *Planothidium delicatulum* (Kützing) Round &
Bukhtiyarova)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)

Municipality: Oliveira do Bairro (District: Aveiro)

- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes delicatula*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium delicatulum* (Kützing) Round & Bukhtiyarova)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Achnanthes delicatula* (Kützing) Grun. ssp. *delicatula* Grunow in Cl. & Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes delicatula* Kützing)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes delicatula*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes delicatula*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Achnanthes delicatula*)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Almeida & Gil 2001 (as *Achnanthes delicatula* (Kützing) Grunow)
- REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Ponte do Curval, Água Forte Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes delicatula* (Kützing) Grunow in Cleve & Grunow)
- Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Achnanthes delicatula*)
- Subregion: Lezíria do Tejo
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Achnanthes delicatula*); Brito & Andrade 1992 (as *Achnanthes delicatula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Achnanthes delicatula* Ktz.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Achnanthes delicatula* Ktz., fossil)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Achnanthes delicatula*)

Site: Tanque

Reference: Azevedo et al. 2005 (as *Achnanthes delicatula*)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing) Round & L. Bukhtiyarova)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing) Round & L. Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium delicatulum* (Kützing) Round & L. Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes delicatula* (Kuetz.) Grun.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes delicatula* (Kutz.) Grun. ssp. *delicatula* Grunow in Cl. & Grun.)

***Planothidium distinctum* (Messikommer) Lange-Bertalot 1999**, p. 281 [CAS ref. 012674]

Basionym: *Achnanthes distincta* Messikommer 1954 [CAS ref. 000655]

Distribution:

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG 2008 (as *Achnanthes distincta* Messikommer)

***Planothidium dubium* (Grunow in Cleve & Grunow) Round & Bukhtiyarova 1996, p. 352 [CAS ref. 006778]**

Basionym: *Achnanthes lanceolata* var. *dubia* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Achnanthes lanceolata* subsp. *dubia* (Grunow) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 137):

REGION: CENTRO
Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)
Site: Caldeirão
References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)
Site: Cubo
Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)
Site: Diz River
Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *dubia* Grun.)
Subregion: Dão-Lafões
Municipality: Tondela (District: Viseu)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *dubia* (Grunow) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)

Site: Furnas
Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *dubia* Grun.)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Planothidium dubium* (Grunow)
Round & L. Bukhtiyarova)

***Planothidium ellipticum* (Cleve) Edlund in Edlund et al. 2001**, p. 88
[CAS ref. 009412]

Basionym: *Achnanthes lanceolata* var. *elliptica* Cleve 1891 [CAS ref. 000229]

Distribution (Fig. 138):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v.
elliptica Cleve); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v.
elliptica)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve); Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *elliptica*)
 Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *elliptica*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata* v. *elliptica*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)
 Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Gil et al. 1991 (as *Achnanthes lanceolata* v. *elliptica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Horta (Faial Island)

Site: Not specified

Reference: Johansson 1977 (as *Achnanthes lanceolata* v. *elliptica* Cleve)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

Reference: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Povoação (São Miguel Island)

Site: Furnas

References: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.)

Site: Pico do Gafanhoto

Reference: Holmboe 1901 (as *Achnanthes lanceolata* var. *elliptica* Cl.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Site: Ribeira Quente

References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Burrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Not specified

Site: São Jorge Island

Reference: Johansson 1977 (as *Achnanthes lanceolata* v. *elliptica* Cleve)

Municipality: Not specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Planothidium ellipticum* (Cleve) M.B. Edlund)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *elliptica* Cleve)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *elliptica* Cleve)

***Planothidium engelbrechtii* (Cholnoky) Round & Bukhtiyarova 1996, p. 353 [CAS ref. 006778]**

Basionym: *Achnanthes engelbrechtii* Cholnoky 1955 [CAS ref. 000200]

Nomenclatural synonym: *Achnanthes delicatula* subsp. *engelbrechtii* (Cholnoky) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Planothidium engelbrechtii* (Choln.)
Round & L. Bukhtiyarova, fossil)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes delicatula* (Kutz.) Grun. ssp.
engelbrechtii (Choln.) Lange-Bertalot)

***Planothidium frequentissimum* (Lange-Bertalot in Krammer & Lange-Bertalot) Lange-Bertalot 1999, p. 282 [CAS ref. 012674]**

Basionym: *Achnanthes lanceolata* subsp. *frequentissima* Lange-Bertalot in Krammer & Lange-Bertalot in Ettl et al. 1993 [CAS ref. 008467]

Nomenclatural synonym: *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova 1996 [CAS ref. 006778]

Distribution (Fig. 139):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *frequentissima* Lange-Bertalot); Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Sernada do Vouga, Vouga River (Vouga Basin)

- References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *frequentissima* Lange-Bertalot)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
References: Nunes et al. 2003 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *frequentissima* Lange-Bertalot); Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Upstream Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *frequentissima* Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
References: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Silva Escura, upstream of Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Barreiro

Reference: Azevedo et al. 2005 (as *Achnanthes lanceolata* ssp. *frequentissima*)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Achnanthes lanceolata* ssp. *frequentissima*)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium frequentissimum* (Lange-Bertalot) Round & Bukhtiyarova)

Site: Not specified

Reference: Gonçalves 2008 (as *Planothidium frequentissimum* (Lange-Bertalot) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grun. ssp. *frequentissima* Lange-Bertalot (*Planothidium*))

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grun. ssp. *frequentissima* Lange-Bertalot (*Planothidium*))

Site: Not specified

Reference: INAG 2008 (as *Achnanthes lanceolata* (Bréb.) Grun. ssp. *frequentissima* Lange-Bertalot)

***Planothidium granum* (M.H. Hohn & Hellerman) Lange-Bertalot 1999, p. 282 [CAS ref. 012674]**

Basionym: *Achnanthes grana* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Distribution (Fig. 140):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes grana* Hohn & Hellerman)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Achnanthes grana* Hohn & Hellermann)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

Site: Not specified

Reference: Gonçalves 2008 (as *Planothidium granum* (Hohn & Hellermann) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG 2008 (as *Achnanthes grana* Hohn & Hellermann)

***Planothidium hauckianum* (Grunow) Round & Bukhtiyarova
1996, p. 353 [CAS ref. 006778]**

Basionym: *Achnanthes hauckiana* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nomenclatural synonym: *Achnanthes delicatula* subsp. *hauckiana* (Grunow) Lange-Bertalot & Ruppel 1980 [CAS ref. 008475]

Distribution (Fig. 141):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Planothidium hauckianum* (Grun.) Round & Bukhtiyarova)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Achnanthes delicatula* (Kützing) Grunow ssp. *hauckiana* (Grunow) Lange-Bertalot & Ruppel)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes hauckiana*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)
Municipality: Not specified
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Planothidium hauckianum* (Grunow)
Round & Bukhtiyarova)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Planothidium hauckianum* (Grunow)
Round & Bukhtiyarova)
Site: Not specified
Reference: Gonçalves 2008 (as *Planothidium hauckianum* (Grun.) Round
& Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Achnanthes hauckiana* Grun.)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Achnanthes delicatula* (Kutz.) Grun. ssp.
hauckiana Lange-Bertalot & Ruppel)

***Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot
1999, p. 287 [CAS ref. 012674]**

Basionym: *Achnantheidium lanceolatum* Brébisson ex Kützing 1846 [CAS ref.
002752]

Nomenclatural synonyms: *Achnanthes lanceolata* (Brébisson ex Kützing) Grunow
in Cleve & Grunow 1880 [CAS ref. 000241]
Planothidium lanceolatum (Brébisson) Round & Bukhtiyarova 1996 [CAS ref.
006778]

Distribution (Fig. 142):

REGION: NORTE
Subregion: Cávado
Municipality: Terras de Bouro (District: Braga)
Site: Caldas do Gerês, Vilar da Veiga
Reference: Sampaio 1950 (as *Achnanthes lanceolata* (Bréb.) Grun.)
Subregion: Entre Douro e Vouga
Municipality: Arouca (District: Aveiro)
Site: Serra da Freita, Arões, Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Municipality: Oliveira de Azeméis (District: Aveiro)
 Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Municipality: São João da Madeira (District: Aveiro)
 Site: Ui River (Vouga Basin)
 Reference: Resende et al. 2009 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Barbeito, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow); Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: São Pedro de Castelões, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
 Site: Tourim, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes lanceolata*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
 Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
 Reference: Formigo et al. 1993 (as *Achnanthes lanceolata*)
- Subregion: Not specified
- Municipality: Not specified
 Site: Serra do Gerês
 Reference: Henriques 1884 (as *Achnanthes lanceolata* Bréb.)

REGION: CENTRO

- Subregion: Baixo Mondego
- Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Quiaios
 Reference: Abrantes et al. 2006 (as *Achnanthes lanceolata*)
- Municipality: Montemor-o-Velho (District: Coimbra)
 Site: Irrigation channel near Montemor-o-Velho
 Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)

- Site: Marsh near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Soure (District: Coimbra)
Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)

- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Achnanthes lanceolata* (Bréb.) Grunow); Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova); Ferreira da Silva et al. 2009 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)

- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Achnanthes lanceolata* Brébisson)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Viadourous, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Perrães, Cértima River (Vouga Basin)

- References: Rino & Gil 1989 (as *Achnanthes lanceolata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata*)
- Site: Vila Verde, Levira River (Vouga Basin)
- References: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow); Almeida 2001 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Planothidium lanceolatum* (Bréb.) Round & Bukhtiyarova)
- Municipality: Not specified
- Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Achnanthes lanceolata* Brébisson)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Caldeirão
- References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Cruz da Faia
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Cubo
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Diz River
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Gonçalo
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.); Santos & Carvalho 2001 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Porto da Carne
- Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)

- Site: Vela
Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow); Gil et al. 1989-1990 (as *Achnanthes lanceolata*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata*)
Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Achnanthes lanceolata*)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Achnanthes lanceolata* (Brébisson) Grunow); Gil et al. 1991 (as *Achnanthes lanceolata*); Feio et al. 2007 (as *Achnanthes lanceolata*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Achnanthes lanceolata* (Bréb.) Grunow var. *lanceolata* Grunow = *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Achnanthes lanceolata*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Achnanthes lanceolata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Achnanthes lanceolata* (Brébisson) Grunow)

Municipality: Calheta (São Jorge Island)

Site: Calheta

Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)

- Site: Not specified
Reference: Johansson 1977 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)
- Municipality: Povoação
Site: Furnas
References: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)
- Site: Lagoa das Furnas
References: Chaves 1908 (as *Achnantidium lanceolatum* Bréb.); Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.); Gonçalves 1997 (as *Achnanthes lanceolata*)
- Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Achnanthes lanceolata* Bréb.)
- Site: Pico da Vara
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Ribeira Quente
References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.); Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Municipality: Praia da Vitória (Terceira Island)
Site: Fonduras
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Achnanthes lanceolata* (Brébisson) Grunow)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Site: Not specified
Reference: Mölder 1947 (as *Achnanthes lanceolata* (Bréb.) Grun.)
- Municipality: Not specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)
- Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: São Jorge Island

References: Johansson 1977 (as *Achnanthes lanceolata* (Bréb.) Grun.); Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

Site: Not specified

Reference: Gonçalves 2008 (as *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Santa Luzia Stream

Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Tanque dos Estanquinhos

Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Achnanthes lanceolata* (Bréb.) Grun.)

Municipality: Ribeira Brava (Madeira Island)

Site: Pico Stream, Serra da Ribeira Brava

Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)

Site: Ribeira Brava
Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Achnanthes lanceolata* (Bréb.) Grun.)
Site: Ribeiro Frio
Reference: Mölder 1947 (as *Achnanthes lanceolata* Bréb.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Zimmermann 1906 (as *Achnanthes lanceolata* (Bréb.) Grun.);
INAG I.P. 2008 (as *Achnanthes lanceolata* (Bréb.) Grunow var.
lanceolata Grunow)

***Planothidium oestrupii* (Cleve-Euler) Round & Bukhtiyarova
1996, p. 352 [CAS ref. 006778]**

Basionym: *Achnanthes lanceolata* var. *oestrupii* Cleve-Euler 1922 [CAS ref.
000247]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* var. *oestrupii*
Cleve-Euler)

***Planothidium peragalloi* (Brun & Héribaud) Round &
Bukhtiyarova 1996, p. 352 [CAS ref. 006778]**

Basionym: *Achnanthes peragalloi* Brun & Héribaud in Héribaud 1893 [CAS ref.
000481]

Distribution (Fig. 143):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes peragallii* Brun & Héribaud)

***Planothidium rostratum* (Østrup) Lange-Bertalot 1999**, p. 285
[CAS ref. 012674]

Basionym: *Achnanthes rostrata* Østrup 1902 [CAS ref. 005151]

Nomenclatural synonyms: *Achnanthes lanceolata* var. *rostrata* (Østrup) Hustedt 1930 [CAS ref. 000502]

Achnanthes lanceolata subsp. *rostrata* (Østrup) Lange-Bertalot in Krammer & Lange-Bertalot in Ettl et al. 1991 [CAS ref. 006522]

Achnantheiopsis rostrata (Østrup) Lange-Bertalot 1997 [CAS ref. 007046]

Distribution (Fig. 144):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Østrup) Lange-Bertalot)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Achnanthes lanceolata* var. *rostrata*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *rostrata* (Østrup) Hustedt)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis rostrata* (Oestrup) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Achnantheiopsis rostrata* (Oestrup) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*); Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Achnanthes lanceolata* v. *rostrata*)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Achnanthes lanceolata* (Brébisson) Grunow ssp. *rostrata* (Östrup) Lange-Bertalot)
- Municipality: Not specified
- Site: Pateira de Fermentelos (District: Aveiro)
- Reference: Calado 1991 (as *Achnanthes lanceolata* Bréb. var. *rostrata* Hustedt)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Municipality: Tondela (District: Viseu)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Achnanthes lanceolata* ssp. *rostrata* (Oestrup) Hustedt)
- Municipality: Vouzela (District: Viseu)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Achnanthes lanceolata* (Bréb.) Grunow v. *rostrata* Hustedt)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Achnanthes lanceolata* ssp. *rostrata*)
- Site: Forno Novo, Tagus River (Tagus Basin)
- Reference: Caldas 1988 (as *Achnanthes lanceolata* ssp. *rostrata*)
- Subregion: Not specified
- Municipality: Not specified
- Site: Not specified
- References: Calado 1990 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Östrup) Hustedt); Gil et al. 1991 (as *Achnanthes lanceolata* v. *rostrata*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Povoação (São Miguel Island)
- Site: Ribeira Quente
- References: Manguin 1942 (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Ostrup) Hust.); Bourrelly & Manguin 1946a (as *Achnanthes lanceolata* (Bréb.) Grun. var. *rostrata* (Ostrup) Hust.)
- Municipality: Not specified
- Site: Corvo Island
- Reference: Gonçalves et al. 2010 (as *Planothidium rostratum* (Oestrup) Lange-Bertalot)
- Site: Pico Island
- References: Johansson 1977 (as *Achnanthes lanceolata* v. *rostrata* Hust.); Gonçalves et al. 2010 (as *Planothidium rostratum* (Oestrup) Lange-Bertalot)
- Site: São Miguel Island
- Reference: Gonçalves et al. 2010 (as *Planothidium rostratum* (Oestrup) Lange-Bertalot)

Site: Not specified

Reference: Gonçalves 2008 (as *Planothidium rostratum* (Oestrup) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Achnanthes lanceolata* ssp. *rostrata* (Oestrup) Lange-Bertalot)

***Platessa* Lange-Bertalot in Krammer & Lange-Bertalot 2004, p. 442 [CAS ref. 013110]**

***Platessa conspicua* (Ant. Mayer) Lange-Bertalot in Krammer & Lange-Bertalot 2004, p. 445 [CAS ref. 013110]**

Basionym: *Achnanthes conspicua* Ant. Mayer 1919 [CAS ref. 000637]

Distribution (Fig. 145):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Achnanthes conspicua* A. Mayer); Nunes 2007 (as *Achnanthes conspicua* A. Mayer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes conspicua* A. Mayer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Platessa conspicua* (A. Mayer) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified
Site: Alto-Douro Rivers
Reference: Morais et al. 2009 (as *Achnanthes conspicua* A. Mayer)
Site: Not specified
Reference: INAG I.P. 2008 (as *Achnanthes conspicua* A. Mayer)

***Platessa hustedtii* (Krasske) Lange-Bertalot in Krammer & Lange-Bertalot 2004, p. 445 [CAS ref. 013110]**

Basionym: *Cocconeis hustedtii* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 146):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: São Jorge Island
Reference: Johansson 1977 (as *Cocconeis hustedtii* Krasske)

***Pleurosigma* W. Smith 1852, p. 2**
[CAS ref. 000862]

***Pleurosigma angulatum* (Quekett) W. Smith emend. Sterrenburg 1991, v. 34(6): p. 566; fig. 2-34 [CAS ref. 008844]**

Distribution (Fig. 147):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1945 (as *Pleurosigma angulatum* W. Sm., fossil); Silva 1946b (as *Pleurosigma angulatum* (Quek.) W. Sm., fossil)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Alfarim diatomite

Reference: Ferreira & Castelo 1957 (as *Pleurosigma angulatum* (Quek.) W. Smith, fossil)

***Pleurosigma elongatum* W. Smith 1852, p. 6; pl. 1, fig. 4 [CAS ref. 000862]**

Distribution:

REGION: ALENTEJO

Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Pleurosigma elongatum*)

***Pleurosigma spencerii* var. *smithii* Grunow in Cleve & Grunow 1880, p. 59 [CAS ref. 000241]**

Distribution (Fig. 148):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Pleurosigma spencerii* var. *smithii*)

***Pleurosigma spencerii* var. *splendida* (Ehrenberg) Van Heurck**
[CAS ref. -]

Distribution (Fig. 149):

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1976 (as *Pleurosigma spencerii* var. *splendida* (E.)
Van Heurck)

***Pleurosigma strigosum* W. Smith 1852**, p. 7; pl. 1, fig. 6 [CAS ref. 000862]

Nomenclatural synonym: *Pleurosigma angulatum* var. *strigosum* (W. Smith) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 150):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Pleurosigma angulatum* var. *strigosum* (W. Sm.) V. H., fossil)

***Pleurosigma* sp.**

Distribution (Fig. 151):

REGION: CENTRO
Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Pleurosigma* sp.)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Pleurosigma* sp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer Reservoir
Reference: Frade 1941b (as *Pleurosigma* sp.)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Pleurosigma* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Rodrigues & Moita 1979b (as *Pleurosigma* spp.)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1987 (as *Pleurosigma* sp.)

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Pleurosigma* sp.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Pleurosigma* sp.)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)
Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Pleurosigma* sp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pleurosigma* spp.)

Subregion: Not specified

Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Pleurosigma* spp.)

***Pleurosira* (Meneghini) V.B.A. Trevisan 1848**, p. 96
[CAS ref. 001898]

***Pleurosira laevis* (Ehrenberg) Compère 1982**, p. 177-178; fig. 1-17,
20, 39 [CAS ref. 003702]

Basionym: *Biddulphia laevis* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonym: *Cerataulus laevis* (Ehrenberg) Ralfs in Pritchard 1861
[CAS ref. 001063]

Distribution (Fig. 152):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Pleurosira laevis* (Ehrenberg)
Compère)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Cerataulus laevis* Ralfs)

***Prestauroneis* Bruder & Medlin 2008**, p. 325
[CAS ref. 013140]

***Prestauroneis integra* (W. Smith) Bruder in Bruder & Medlin
2008**, p. 325 [CAS ref. 013140]

Basionym: *Pinnularia integra* W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonym: *Navicula integra* (W. Smith) Ralfs in Pritchard 1861
[CAS ref. 001063]

Distribution (Fig. 153):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula integra* (W. Smith) Ralfs)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula integra* (W. Smith) Ralfs)

***Psammodictyon* D.G. Mann in Round, Crawford &
Mann 1990, p. 675 [CAS ref. 003245]**

***Psammodictyon mediterraneum* (Hustedt in Schmidt) D.G. Mann
in Round, Crawford & Mann 1990, p. 676 [CAS ref. 003245]**

Basionym: *Nitzschia mediterranea* Hustedt in Schmidt 1921 [CAS ref. 012503]

Distribution (Fig. 154):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia mediterranea*)

***Psammosynedra* Round 1993a, p. 211
[CAS ref. 006349]**

***Psammosynedra closterioides* (Grunow in Van Heurck) Round
1993b, p. 211; fig. 1-12 11 [CAS ref. 008734]**

Basionym: *Synedra closterioides* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 155):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Synedra closterioides*)

***Psammothidium* Bukhtiyarova & Round 1996, p. 3**
[CAS ref. 006789]

***Psammothidium altaicum* (Poretzky) Bukhtiyarova in
Bukhtiyarova & Round 1996, p. 5; fig. 12-15 [CAS ref. 006789]**

Basionym: *Amphora altaica* Poretzky 1933 [CAS ref. 000756]

Distribution (Fig. 156):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Psammothidium altaicum* (Poretzky)
Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium altaicum* (Poretzky)
Bukhtiyarova)

Site: Not specified

Reference: Gonçalves 2008 (as *Psammothidium altaicum* Bukhtiyarova)

***Psammothidium chlidanos* (M.H. Hohn & Hellerman) Lange-
Bertalot 1999, p. 285 [CAS ref. 012674]**

Basionym: *Achnanthes chlidanos* M.H. Hohn & Hellerman 1963 [CAS ref. 000486]

Distribution (Fig. 157):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn &
Hellerman)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn &
Hellerman)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Achnanthes chlidanos* Hohn & Hellerman)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Achnanthes chlidanos* Hohn & Hellerman)

***Psammothidium kryophilum* (J.B. Petersen) E. Reichardt 2004**, p. 441 [CAS ref. 012890]

Basionym: *Achnanthes kryophila* J.B. Petersen 1924 [CAS ref. 000741]

Distribution (Fig. 158):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Achnanthes kryophila*)
Subregion: Not specified
Municipality: Not specified
Site: Not specified

Reference: Gil et al. 1991 (as *Achnanthes kryophila*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Achnanthes kryophila* Petersen)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium kryophilum* (J.B. Petersen) E. Reichardt)

***Psammothidium levanderi* (Hustedt) Bukhtiyarova 2008**, p. 62
[CAS ref. 013313]

Basionym: *Achnanthes levanderi* Hustedt 1933 [CAS ref. 000507]

Nomenclatural synonym: *Achnanthidium levanderi* (Hustedt) Czarnecki in Czarnecki & Edlund 1995 [CAS ref. 008156]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Achnanthidium levanderi* (Hustedt) Czarnecki, fossil)

***Psammothidium marginulatum* (Grunow) Bukhtiyarova & Round 1996**, p. 5; fig. 2-11 [CAS ref. 006789]

Basionym: *Achnanthes marginulata* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 159):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Achnanthes marginulata* Grunow)

Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Achnanthes marginulata* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Achnanthes marginulata* Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes marginulata*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida & Gil 2001 (as *Achnanthes marginulata* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

References: Johansson 1977 (as *Achnanthes* cf. *marginulata* Grun.);

Gonçalves et al. 2010 (as *Psammothidium marginulatum* (Grunow)

Bukhtiyarova & Round)

***Psammothidium sacculum* (J.R. Carter in Carter & Bailey-Watts)
Bukhtiyarova in Bukhtiyarova & Round 1996, p. 27 [CAS ref.
006789]**

Basionym: *Achnanthes saccula* J.R. Carter in Carter & Bailey-Watts 1981 [CAS
ref. 003626]

Distribution:

REGION: CENTRO

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Achnanthes saccula* Carter)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Achnanthes saccula* Carter in Carter & Bailey-Watts)

***Psammothidium scoticum* (Flower & V.J. Jones) Bukhtiyarova & Round 1996**, p. 22; fig. 76-77 [CAS ref. 006789]

Basionym: *Achnanthes scotica* Flower & V.J. Jones 1989 [CAS ref. 008204]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not specified
Site: Not specified
References: Gonçalves et al. 2010 (as *Psammothidium scoticum* (Flower & Jones) Bukht. & Round, fossil)

***Psammothidium semiapertura* (Hustedt) Aboal in Aboal et al. 2003**, p. 175 [CAS ref. 012666]

Basionym: *Cocconeis semiapertura* Hustedt 1945 [CAS ref. 000518]

Replaced synonym: *Achnanthes hintzii* Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 160):

REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes hintzii* Lange-Bertalot et Krammer)
Site: Jungeiros, Roxo Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Achnanthes hintzii* Lange-Bertalot et Krammer)

***Psammothidium ventrale* (Krasske) Bukhtiyarova & Round 1996,**
v. 11(1): p. 7; fig. 16-19 [CAS ref. 006789]

Basionym: *Navicula ventralis* Krasske 1923b [CAS ref. 012709]

Nomenclatural synonym: *Achnanthes ventralis* (Krasske) Lange-Bertalot in
Lange-Bertalot & Krammer 1989 [CAS ref. 006174]

Distribution (Fig. 161):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Psammothidium ventrale* (Krasske)
Bukhtiyarova & Round)

Site: Not specified

Reference: Gonçalves 2008 (as *Psammothidium ventralis* (Krasske)
Bukhtiyarova & Round)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Achnanthes ventralis* (Krasske) Lange-
Bertalot)

***Pseudo-eunotia* Grunow in Van Heurck 1881,**
pl. 35, fig. 22,23 [CAS ref. 001035]

***Pseudo-eunotia lunaris* (Ehrenberg) De Toni 1892,** p. 808 [CAS ref.
000950]

Basionym: *Synedra lunaris* Ehrenberg 1832 [CAS ref. 000282]

Distribution (Fig. 162):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Pseudo-eunotia lunaris* (Ehr.) De
Toni)

***Pseudo-nitzschia* H. Peragallo in H. Peragallo & Peragallo 1900**, p. 263, 298 [CAS ref. 000733]

***Pseudo-nitzschia seriata* (Cleve) H. Peragallo & Peragallo 1899**, p. 300; pl. 72, fig. 28 [CAS ref. 001054]

Basionym: *Nitzschia seriata* Cleve 1883 [CAS ref. 000224]

Distribution (Fig. 163):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not specified

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Nitzschia seriata*)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia seriata*)

***Pseudostaurosira* D.M. Williams & Round 1988**, p. 276
[CAS ref. 003205]

***Pseudostaurosira brevistriata* (Grunow in Van Heurck) D.M. Williams & Round 1987**, p. 276; fig. 28-31 [CAS ref. 003171]

Basionym: *Fragilaria brevistriata* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 164):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria brevistriata* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Pseudostaurosira brevistriata* (Grun. in Van Heurck) Williams & Round)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)

- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Nueme
Reference: Carvalho 1913 (as *Fragilaria brevistriata* Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria brevistriata*); Almeida 1998 (as *Fragilaria brevistriata* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria brevistriata* Grunow)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Fragilaria brevistriata* Grunow); Gil et al. 1989-1990 (as *Fragilaria brevistriata*)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria brevistriata* Grunow)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
References: Calado 1990 (as *Fragilaria brevistriata* Grunow); Almeida & Gil 2001 (as *Fragilaria brevistriata* Grunow)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira brevistriata* (Grunow) Williams & Round)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira brevistriata* (Grunow) Williams & Round)
- Site: Not specified

Reference: Gonçalves 2008 (as *Pseudostaurosira brevistriata* (Grunow in Van Heurck) Williams & Round)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria brevistriata* Grunow (*Pseudostaurosira*))

***Pseudostaurosira elliptica* (Schumann) Edlund, E. Morales & Spaulding 2006**, p. 58 [CAS ref. 012721]

Basionym: *Fragilaria elliptica* Schumann 1867 [CAS ref. 001004]

Nomenclatural synonym: *Staurosira elliptica* (Schumann) D.M. Williams & Round 1987 [CAS ref. 003171]

Distribution (Fig. 165):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pseudostaurosira elliptica* (Schumann) Edlund, Morales & Spaulding)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria elliptica* Schumann)

***Pseudostaurosira parasitica* (W. Smith) E. Morales 2003**, p. 287; fig. 27-43, 54-58 [CAS ref. -]

Basionym: *Odontidium parasiticum* W. Smith 1856 [CAS ref. 001007]

Nomenclatural synonyms: *Fragilaria parasitica* (W. Smith) Grunow in Van Heurck 1881 [CAS ref. 001035]

Synedra parasitica (W. Smith) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 166):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra parasitica* (W. Smith) Hustedt)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Casal Estevão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra parasitica*)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Synedra parasitica* (W. Smith) Hustedt)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Synedra parasitica* (W. Sm.) Hust.);

Bourrelly & Manguin 1946a (as *Synedra parasitica* (W. Sm.) Hust.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Pseudostaurosira parasitica* (W. Smith) Morales)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Pseudostaurosira parasitica* (W. Smith) Morales)

Site: Not specified

Reference: Gonçalves 2008 (as *Pseudostaurosira parasitica* (W. Smith) Morales)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria parasitica* (W. Sm.) Grun. var. *parasitica*)

***Pseudostaurosira parasitica* var. *subconstricta* (Grunow) E. Morales 2003**, p. 287 [CAS ref. -]

Basionym: *Fragilaria parasitica* var. *subconstricta* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra parasitica* var. *subconstricta* (Grunow in Van Heurck) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 167):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Fragilaria parasitica* (W. Smith) Grunow var. *subconstricta* Grunow)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Calado 1990 (as *Synedra parasitica* (W. Smith) Hustedt var. *subconstricta* (Grunow) Hustedt)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Fragilaria parasitica* (W. Sm.) Grun. var. *subconstricta* Grunow)

***Pseudostaurosira pseudoconstruens* (Marciniak) D.M. Williams & Round 1987**, v. 2(2): p. 277 [CAS ref. 003171]

Basionym: *Fragilaria pseudoconstruens* Marciniak 1982 [CAS ref. 006370]

Nomenclatural synonym: *Staurosira pseudoconstruens* (Marciniak) Lange-Bertalot 2008 [CAS ref. -]

Distribution (Fig. 168):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Staurosira pseudoconstruens* (Marciniak) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Staurosira pseudoconstruens* (Marciniak) Lange-Bertalot)

Site: Not specified

Reference: Gonçalves 2008 (as *Pseudostaurosira pseudoconstruens* (Marciniak) Williams & Round)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria pseudoconstruens* Marciniak)

***Pseudostaurosira subsalina* (Hustedt) E. Morales 2005**, p. 115 [CAS ref. 012984]

Basionym: *Fragilaria construens* var. *subsalina* Hustedt 1925 [CAS ref. 001278]

Nomenclatural synonym: *Fragilaria construens* f. *subsalina* (Hustedt) Hustedt 1957 [CAS ref. 000532]

Distribution (Fig. 169):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Bolfiár, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Fragilaria construens* v. *subsalina* Hustedt)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)

Site: São João do Monte, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1989-1990 (as *Fragilaria construens* v. *subsalina*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Fragilaria construens* f. *subsalina* (Hustedt) Hustedt)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Calado 1990 (as *Fragilaria construens* v. *subsalina* Hustedt); Gil et al. 1991 (as *Fragilaria construens* v. *subsalina*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Fragilaria construens* v. *subsalina* Hustedt); Bourrelly & Manguin 1946a (as *Fragilaria construens* v. *subsalina* Hustedt)
Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira subsalina* (Hustedt) Morales)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Pseudostaurosira subsalina* (Hustedt) Morales)

***Pseudostaurosira zeilleri* (Héribaud) D.M. Williams & Round 1987, p. 276 [CAS ref. 003171]**

Basionym: *Fragilaria zeilleri* Héribaud 1903 [CAS ref. 000992]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

References: Gonçalves 2008 (as *Pseudostaurosira zeileri* (Héribaud) Williams & Round); Gonçalves et al. 2010 (as *Pseudostaurosira zeileri* (Héribaud) Williams & Round, fossil)

***Punctastriata* D.M. Williams & Round 1988**, p. 278 [CAS ref. 003205]

***Punctastriata lancettula* (Schumann) P.B. Hamilton & Siver 2008**, p. 363 [CAS ref. 013143]

Basionym: *Fragilaria lancettula* Schumann 1867 [CAS ref. 001004]

Nomenclatural synonym: *Fragilaria pinnata* var. *lancettula* (Schumann) Hustedt in Schmidt et al. 1913 [CAS ref. 012496]

Distribution (Fig. 170):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt); Gil et al. 1989-1990 (as *Fragilaria pinnata* v. *lancettula*)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria pinnata* Ehr. v. *lancettula* (Schum.) Hustedt)

***Puncticulata* Håkansson 2002**, p. 21, 112
[CAS ref. 009521]

***Puncticulata bodanica* (Eulenstein ex Grunow) Håkansson 2002**, p. 119 [CAS ref. 009521]

Basionym: *Cyclotella bodanica* Eulenstein ex Grunow in Schneider 1878 [CAS ref. 000439]

Distribution (Fig. 171):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Cyclotella bodanica*)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Cyclotella bodanica* Eulens.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Cyclotella bodanica* Grunow var. *bodanica* Grunow)

***Puncticulata radiosa* (Grunow in Van Heurck) Håkansson 2002**, p. 114 [CAS ref. 009521]

Basionym: *Cyclotella comta* var. *radiosa* Grunow in Van Heurck 1882 [CAS ref. 001036]

Synonym: *Cyclotella radiosa* (Grunow in Van Heurck) Lemmermann 1900 [CAS ref. -]

Distribution (Fig. 172):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Cyclotella radios*a (Grunow) Lemmermann)

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Cyclotella radios*a (Grunow) Lemmermann)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Cyclotella radios*a (Grunow) Lemmermann)

***Reimeria Kociolek & Stoermer 1987*, p. 457**

[CAS ref. 003182]

***Reimeria sinuata* (W. Gregory) Kociolek & Stoermer emend. Sala, Guerrero & Ferrario 1993**, v. 8(2): p. 441; fig. 2-6 [CAS ref. 008748]

Basionym: *Cymbella sinuata* W. Gregory 1856 [CAS ref. 000397]

Distribution (Fig. 173):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Cymbella sinuata* Gregory)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Valmaior, mouth of Filvida River (Vouga Basin)
 References: Nunes et al. 2002 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Ferreira da Silva et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Cymbella sinuata* Gregory); Gil et al. 1989-1990 (as *Cymbella sinuata*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Cymbella sinuata*)
 Municipality: Sever do Vouga (District: Aveiro)
 Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 References: Nunes et al. 2003 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer); Nunes 2007 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)
 Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Cymbella sinuata* Gregory)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Cymbella sinuata* Gregory)
 Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cymbella sinuata*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Cymbella sinuata*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Calado 1990 (as *Cymbella sinuata* Gregory)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek et Stoermer)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Alto-Douro Rivers

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: North-South Transition Rivers and Mountain Rivers in the South

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Rivers in the North

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Tagus and Sado Sedimentary Deposits

Reference: Morais et al. 2009 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

Site: Not specified

Reference: INAG I.P. 2008 (as *Cymbella sinuata* Gregory); INAG I.P. 2008 (as *Reimeria sinuata* (Gregory) Kociolek & Stoermer)

***Reimeria ovata* (Hustedt) Levkov & Ector 2010**, p. 479 [CAS ref. 013431]

Basionym: *Cymbella sinuata* var. *ovata* Hustedt 1922b [CAS ref. 000494]

Nomenclatural synonym: *Reimeria sinuata* f. *ovata* (Hustedt) Hartley 1996 [CAS ref. -]

Distribution (Fig. 174):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

Site: Repolão, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Cymbella sinuata* v. *ovata*)

***Reimeria uniseriata* S.E. Sala, J.M. Guerrero & Ferrario 1993**, p. 445; fig. 7-10 [CAS ref. 008748]

Distribution (Fig. 175):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Reimeria uniseriata* Sala, Guerrero & Ferrario)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Reimeria uniseriata* Sala, Guerrero & Ferrario)

***Rhizosolenia* Brightwell 1858**, p. 94
[CAS ref. 002402]

***Rhizosolenia* sp.**

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Rhizosolenia* sp.)

***Rhoicosphenia* Grunow 1860**, p. 511
[CAS ref. 000427]

***Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot 1980a**, p. 586; fig. 1A, 3C-D, 5A [CAS ref. 006891]

Basionym: *Gomphonema abbreviatum* C. Agardh 1831 [CAS ref. 000939]

Synonym: *Rhoicosphenia curvata* (Kützing) Grunow 1860 [CAS ref. 000427], according to Krammer & Lange-Bertalot 1986, p. 381

Distribution (Fig. 176):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Site: Vagueira, Canal de Mira
Reference: Mendes et al. 2009 (as *Rhoicosphenia abbreviata*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Rhoicosphenia abbreviata*)
- Site: Forno Novo, Tagus River (Tagus Basin)
Reference: Caldas 1988 (as *Rhoicosphenia abbreviata*)
- Subregion: Pinhal Interior Sul
Municipality: Vila de Rei (District: Castelo Branco)
Site: Isna Stream (Tagus Basin)
Reference: Zimmermann 1914 (as *Gomphonema abbreviatum* Ag.)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh) Lange-Bertalot, fossil)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh) Lange-Bertalot, fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhoicosphenia abbreviata* (Agardh) Lange-Bertalot, fossil)

Site: Not specified

Reference: Gonçalves 2008 (as *Rhoicosphenia abbreviata* (Agardh) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot)

***Rhoicosphenia curvata* (Kützing) Grunow 1860**, p. 511 [CAS ref. 000427]

Basionym: *Gomphonema curvatum* Kützing 1833 [CAS ref. 000594]

Synonym: *Rhoicosphenia abbreviata* (C. Agardh) Lange-Bertalot 1980a [CAS ref. 006891], according to Krammer & Lange-Bertalot 1986, p. 381

Distribution (Fig. 177):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not specified

Reference: Colmeiro 1889 (as *Gomphonema curvatum* Kg.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)

Municipality: Anadia (District: Aveiro)

- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Municipality: Aveiro (District: Aveiro)
Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Rhoicosphenia curvata* (Kuetz.) Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Rhoicosphenia curvata*)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Rhoicosphenia curvata* (Kützing) Grunow)
- Subregion: Beira Interior Sul
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Rhoicosphenia curvata*)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Rhoicosphenia curvata*)
- Site: Santa Cruz

Reference: Zimmermann 1909b (as *Rhoicosphenia curvata* (Kuetz.) Grun.)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Rhoicosphenia curvata*);
Cerqueira da Silva et al. 1993 (as *Rhoicosphenia curvata*)

Site: Not specified

Reference: Calado 1990 (as *Rhoicosphenia curvata* (Kützing) Grunow)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Rhoicosphenia curvata*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Arraiolos (District: Évora)

Site: Divor Reservoir, Divor Stream (Tagus Basin)

References: Oliveira 1984b (as *Rhoicosphenia curvata*); Oliveira 1987 (as
Rhoicosphenia curvata (Kz.) Grun.)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Rhoicosphenia curvata* (Kützing) Grunow)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Rhoicosphenia curvata*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Rhoicosphenia curvata*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Rhoicosphenia curvata* (Kütz.) Grun.);
Fernandes et al. 1987 (as *Rhoicosphenia curvata*)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Rhoicosphenia curvata* (Kütz.) Grun., fossil)

Municipality: Santarém (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Rhoicosphenia curvata*)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Rhoicosphenia curvata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Nordeste (São Miguel Island)

Site: Serra Tronqueira

References: Manguin 1942 (as *Rhoicosphenia curvata* (Kütz.) Grun.);

Bourrelly & Manguin 1946a (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Site: Lagoa das Furnas

References: Manguin 1942 (as *Rhoicosphenia curvata* (Kütz.) Grun.);

Bourrelly & Manguin 1946a (as *Rhoicosphenia curvata* (Kütz.) Grun.);

Mölder 1947 (as *Rhoicosphenia curvata* (Kütz.) Grun.)

Site: Salto do Bargado, Furnas

Reference: Chaves 1908 (as *Rhoicosphenia curvata*, fossil)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Rhoicosphenia curvata*, fossil)

***Rhopalodia* O. Müller 1895, p. 57**

[CAS ref. 001776]

***Rhopalodia gibba* (Ehrenberg) O. Müller 1895, p. 65; pl. 1, fig. 15-17 [CAS ref. 001776]**

Basionym: *Navicula gibba* Ehrenberg 1830 [CAS ref. 001999]

Nomenclatural synonyms: *Epithemia gibba* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Cystopleura gibba (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 178):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not specified

Reference: Colmeiro 1889 (as *Epithemia gibba* Kg.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Rhopalodia gibba*); de Figueiredo et al. 2006 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Rhopalodia gibba*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller); Gil et al. 1989-1990 (as *Rhopalodia gibba*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller); Gil et al. 1989-1990 (as *Rhopalodia gibba*)

Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Rhopalodia gibba* O. Müller)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Rhopalodia gibba*)
 Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)
 Subregion: Beira Interior Sul
 Municipality: Idanha-a-Nova (District: Castelo Branco)
 Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Epithemia gibba*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Rhopalodia gibba* (Ehr.) O. Müller)
 Subregion: Médio Tejo
 Municipality: Torres Novas (District: Santarém)
 Site: Almonda River (Tagus Basin)
 Reference: Zimmermann 1909b (as *Cystopleura gibba* (Ehr.) Kunze)
 Site: Renova, Almonda River (Tagus Basin)
 Reference: Oliveira & Caldas 1971 (as *Rhopalodia gibba* (Ehr.) Müller)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 References: Calado 1990 (as *Rhopalodia gibba* (Ehrenberg) O. Müller);
 Gil et al. 1991 (as *Rhopalodia gibba*)

REGION: LISBOA

Subregion: Grande Lisboa
 Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Epithemia gibba*)

REGION: ALENTEJO

Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Epithemia gibba*); Oliveira
 1996 (as *Epithemia gibba*)
 Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Epithemia gibba*)

Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
References: Oliveira 1984a (as *Epithemia gibba*); Oliveira 1987 (as *Epithemia gibba* (Ehr.) O.M.)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Epithemia gibba*)

Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Rhopalodia gibba*)

Subregion: Baixo Alentejo

Municipality: Mértola (District: Beja)
Site: Acid mine drainage of the São Domingos mine
Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

Site: Reservoir in the abandoned São Domingos mine
Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

Subregion: Not specified

Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Epithemia gibba*)
Site: Vascão River (in the edge of the Guadiana Nature Reserve), (Guadiana Basin)
Reference: Gerhardt et al. 2008 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

REGION: ALGARVE

Subregion: Algarve

Municipality: Loulé (District: Faro)
Site: Alte
References: Lange-Bertalot & Krammer 1987 (as *Rhopalodia gibba* (Ehrenberg) O. Müller); Krammer & Lange-Bertalot 1988 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Epithemia gibba* Ehr.)
Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Epithemia gibba* Ehr., fossil)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Epithemia gibba* Ehr., fossil)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)
Site: Not specified
Reference: Gonçalves 2008 (as *Rhopalodia gibba* (Ehrenberg) O. Müller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Ribeira de João Gomes
Reference: Schodduyn 1927 (as *Rhopalodia gibba* Kg.)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* (Ehr.) Kunze)
Site: Levada do Curral dos Romeiros
Reference: Schodduyn 1927 (as *Rhopalodia gibba* Kg.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Rhopalodia gibba* (Ehr.) Müller)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *gibba*)

***Rhopalodia gibba* var. *minuta* Krammer in Lange-Bertalot & Krammer 1987, p. 79-80; pl. 45, fig. 1-6 [CAS ref. 006173]**

Distribution (Fig. 179):

REGION: ALGARVE
Subregion: Algarve
Municipality: Loulé (District: Faro)
Site: Alte

References: Lange-Bertalot & Krammer 1987 (as *Rhopalodia gibba* var. *minuta* Krammer); Krammer & Lange-Bertalot 1988 1987 (as *Rhopalodia gibba* var. *minuta* Krammer)

***Rhopalodia gibba* var. *ventricosa* (Kützing) H. Peragallo & Peragallo 1900**, p. 302; pl. 77, fig. 3-5 [CAS ref. 001055]

Basionym: *Epithemia ventricosa* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Cystopleura gibba* var. *ventricosa* (Kützing) De Toni 1892 [CAS ref. 000950]

Distribution (Fig. 180):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* var. *ventricosa*)

***Rhopalodia gibberula* (Ehrenberg) O. Müller 1895**, p. 58 [CAS ref. 001776]

Basionym: *Eunotia gibberula* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonym: *Epithemia gibberula* (Ehrenberg) Kützing 1844 [CAS ref. 000595]

Cystopleura gibberula (Ehrenberg) Kuntze 1891 [CAS ref. 001330]

Distribution (Fig. 181):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia gibberula* (Ehrenberg) O. Müller)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Cystopleura gibberula* (Ehr.) Kunze)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not specified
Reference: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Site: Lagoinha, Fajãzinha
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa Grande
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Epithemia gibberula* Ehr.); Manguin 1942
(as *Rhopalodia gibberula* (Ehr.) O. Müll.); Bourrelly & Manguin 1946a
(as *Rhopalodia gibberula* (Ehr.) O. Müll.); Mölder 1947 (as *Rhopalodia
gibberula* (Ehr.) Müller)
Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Site: Pico da Vara
Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller)
Site: Ribeira Quente
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Site: Ribeira Grande
References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll.);
Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll.)
Municipality: Not specified
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg)
O.F. Müller)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)

Site: Pico Island

References: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.); Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)

Site: São Jorge Island

References: Johansson 1977 (as *Rhopalodia gibberula* (Ehr.) O. Müll.); Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia gibberula* (Ehrenberg) O.F. Müller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cystopleura gibberula* (Ehr.) Kunze)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Rhopalodia gibberula* (Ehr.) Müller)

***Rhopalodia gibberula* var. *producta* (Grunow) Cleve-Euler 1952, v. 3(3): p. 43; fig. 1415d-i [CAS ref. 001044]**

Basionym: *Epithemia gibberula* var. *producta* Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 182):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not specified

Reference: Johansson 1977 (as *Rhopalodia gibberula* var. *producta* (Grun.) Cleve)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Lagoa das Sete Cidades

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

Site: Lagoa das Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *producta* Grun.)

***Rhopalodia gibberula* var. *vanheurckii* O. Müller 1900**, p. 292
[CAS ref. 000674]

Distribution (Fig. 183):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

Municipality: Not specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.); Bourrelly & Manguin 1946a (as *Rhopalodia gibberula* (Ehr.) O. Müll. var. *van heurckii* O. Müll.)

***Rhopalodia musculus* (Kützing) O. Müller 1900**, p. 278, 294 [CAS
ref. 000674]

Basionym: *Epithemia musculus* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 184):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Rhopalodia musculus* (Kütz.) O. Müller)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Not specified

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia musculus* (Kützing) O.F. Müller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia musculus* (Kützing) O.F. Müller)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Ribeira Brava

Reference: Mölder 1947 (as *Rhopalodia musculus* (Kütz.) Müller)

***Rhopalodia operculata* (C. Agardh) Håkansson 1979**, p. 166-167
[CAS ref. 008294]

Basionym: *Frustulia operculata* C. Agardh 1827 [CAS ref. 000103]

Distribution (Fig. 185):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Rhopalodia operculata* (Agardh) Håkansson)

***Rhopalodia parallela* (Grunow) O. Müller 1895, p. 64; pl. 1, fig. 13, 14 [CAS ref. 001776]**

Basionym: *Epithemia gibba* var. *parallela* Grunow 1862 [CAS ref. 000428]

Nomenclatural synonyms: *Cystopleura gibba* var. *parallela* (Grunow) De Toni 1892 [CAS ref. 000950]

Rhopalodia gibba var. *parallela* (Grunow) H. Peragallo & Peragallo 1900 [CAS ref. 001055]

Distribution (Fig. 186):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *parallela* Grun.)

Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)

Reference: Holmboe 1901 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *parallela* Grun.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Cystopleura gibba* (Ehr.) Kunze var. *parallela* Grun.)

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Rhopalodia parallela* (Grun.) Müller)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Rhopalodia gibba* (Ehr.) O. Müller var. *parallela* Grun. H. et M. Peragallo)

***Rhopalodia rupestris* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987**, p. 86; pl. 49, fig. 1-6 [CAS ref. 006173]

Basionym: *Epithemia rupestris* W. Smith 1853 [CAS ref. 000863]

Nomenclatural synonym: *Rhopalodia gibberula* var. *rupestris* (W. Smith) O. Müller 1900 [CAS ref. 000674]

Distribution (Fig. 187):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Rhopalodia gibberula* (Ehr.) O. Müller var. *rupestris* (W. Sm.) O. Müller)

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Epithemia rupestris* Sm.)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Epithemia rupestris* Sm.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rhopalodia rupestris* (W. Smith) Krammer)

Site: Not specified

Reference: Gonçalves 2008 (as *Rhopalodia rupestris* (W. Smith) Krammer)

***Rossithidium* Round & Bukhtiyarova 1996**, p. 350
[CAS ref. 006778]

***Rossithidium pusillum* (Grunow) Round & Bukhtiyarova in Bukhtiyarova 2008**, p. 52 [CAS ref. 013313]

Basionym: *Achnanthes linearis* var. *pusilla* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 188):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Bolfiár, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Achnanthes linearis* v. *pusilla*)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Achnanthes linearis* W. Smith v. *pusilla* Grunow)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Achnanthes linearis* f. *pusilla*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoinha, Fajãzinha

References: Manguin 1942 (as *Achnanthes linearis* (W. Sm.) Grun. var. *pusilla* Grun.); Bourrelly & Manguin 1946a (as *Achnanthes linearis* (W. Sm.) Grun. var. *pusilla* Grun.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Municipality: Povoação (São Miguel Island)

Site: Furnas

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Municipality: Praia da Vitória (Terceira Island)

Site: Fonduras

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

Site: São Jorge Island

References: Johansson 1977 (as *Achnanthes linearis* v. *pusilla* Grun.); Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

Site: Not specified

Reference: Gonçalves 2008 (as *Rossithidium pusillum* (Grunow) Round & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Mölder 1947 (as *Achnanthes linearis* (W. Sm.) var. *pusilla* Grun.)

***Scolioneis* D.G. Mann in Round, Crawford & Mann
1990, p. 676, 528 [CAS ref. 003245]**

***Scolioneis tumida* (Brébisson ex Kützing) D.G. Mann in Round,
Crawford & Mann 1990, p. 676 [CAS ref. 003245]**

Basionym: *Navicula tumida* Brébisson ex Kützing 1849 [CAS ref. 000596]

Distribution (Fig. 189):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Navicula tumida* Bréb., fossil)

***Sellaphora* Mereschkowsky 1902, p. 186**
[CAS ref. 002310]

***Sellaphora americana* (Ehrenberg) D.G. Mann 1989, p. 2** [CAS ref. 006843]

Basionym: *Navicula americana* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 190):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Navicula americana* Ehrenberg)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1910 (as *Navicula americana* Ehr.)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Navicula americana* Ehrenberg)

***Sellaphora bacilliformis* (Grunow in Cleve & Grunow)**
Mereschkowsky 1902, p. 190; pl. 4, fig. 17 [CAS ref. 002310]

Basionym: *Navicula bacilliformis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 191):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Navicula bacilliformis* Grun.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Navicula bacilliformis* Grun.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Navicula bacilliformis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula bacilliformis* Grun.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Navicula bacilliformis* Grun., fossil)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Navicula bacilliformis* Grun.); Bourrelly & Manguin 1946a (as *Navicula bacilliformis* Grun.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Navicula bacilliformis* Grunow)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Navicula bacilliformis* Grunow)

***Sellaphora bacillum* (Ehrenberg) D.G. Mann 1989**, p. 2; fig. 2, 9, 13, 14, 18, 39, 40 [CAS ref. 006843]

Basionym: *Navicula bacillum* Ehrenberg 1839 [CAS ref. 000289]

Distribution (Fig. 192):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula bacillum* Ehrenberg)

Site: Perrães, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Navicula bacillum*); Almeida 1998 (as *Navicula bacillum* Ehrenberg)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora bacillum* (Ehrenberg) D.G. Mann)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula bacillum*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula bacillum*)

Municipality: Torres Novas (District: Santarém)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Navicula bacillum* Ehr.)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Navicula bacillum*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Navicula bacillum*)

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Navicula bacillum*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990 (as *Navicula bacillum*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula bacillum* Ehr.); Bourrelly & Manguin 1946a (as *Navicula bacillum* Ehr.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula bacillum*)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Sellaphora bacillum* (Ehrenberg) D.G. Mann)

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Sellaphora bacillum* (Ehrenberg) D.G. Mann)

Site: Not specified

Reference: Gonçalves 2008 (as *Sellaphora bacillum* (Ehrenberg) Mann)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Navicula bacillum* Ehrenberg
(*Sellaphora*))

***Sellaphora elliptica* Mereschkowsky 1902**, p. 190; pl. 4, fig. 13-16
[CAS ref. 002310]

Distribution (Fig. 193):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Sellaphora elliptica*
Mereschkowsky)

Site: Pico Island

References: Gonçalves et al. 2010 (as *Sellaphora elliptica*
Mereschkowsky)

***Sellaphora elliptica* (Hustedt) J.R. Johansen in Johansen et al.
2004**, p. 24 [CAS ref. 012667]

Basionym: *Navicula pupula* var. *elliptica* Hustedt 1911 [CAS ref. 000492]

Distribution (Fig. 194):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *elliptica* Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Navicula pupula* Kütz. var. *elliptica* Hust.); Bourrelly & Manguin 1946a (as *Navicula pupula* Kütz. v. *elliptica* Hust.)

Municipality: Not specified

Site: Pico Island

References: Johansson 1977 (as *Navicula pupula* v. *elliptica* Hust.)

***Sellaphora gregoryana* (Cleve & Grunow) Metzeltin & Lange-Bertalot 1998**, p. 204; pl. 81, fig. 10 [CAS ref. 007051]

Basionym: *Navicula bacillum* var. *gregoryana* Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 195):

REGION: NORTE

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Navicula bacillum* Ehr. var. *gregoryana* Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula bacillum* v. *gregoryana*)

***Sellaphora hustedtii* (Krasske) Lange-Bertalot & Werum in Werum & Lange-Bertalot 2004**, p. 173 [CAS ref. 012889]

Basionym: *Navicula hustedtii* Krasske 1923a [CAS ref. 000579]

Distribution (Fig. 196):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula hustedtii* Krasske)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hustedtii*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula hustedtii* Krasske)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula hustedtii*)

***Sellaphora joubaudii* (H. Germain) Aboal in Aboal et al. 2003**, p. 433 [CAS ref. 012666]

Basionym: *Navicula joubaudii* H. Germain 1982 [CAS ref. 008256]

Distribution (Fig. 197):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Navicula joubaudii* Germain)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula joubaudii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Navicula joubaudii*)

***Sellaphora laevis* (Kützing) D.G. Mann 1989**, p. 2; fig. 3, 41, 47, 48 [CAS ref. 006843]

Basionym: *Navicula laevis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 198):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not specified

Reference: Colmeiro 1889 (as *Navicula laevis* Kg.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula laevissima* Kützing)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula laevissima* Kützing)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula laevissima* Kützing)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Calado 1990 (as *Navicula laevissima* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Navicula laevissima* Ktz.)

Municipality: Santa Cruz da Graciosa (Graciosa Island)

Site: Fundão, Caldeira

Reference: Azevedo et al. 2005 (as *Navicula laevissima*)

Municipality: Not specified

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Sellaphora laevissima* (Kützing) D.G. Mann)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora laevissima* (Kützing) D.G. Mann)

***Sellaphora mutatoides* Lange-Bertalot & Metzeltin in Metzeltin & Lange-Bertalot 2002, p. 64; pl. 31, fig. 23, 24, pl. 34, fig. 13 [CAS ref. 011529]**

Distribution (Fig. 199):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Sellaphora mutatoides* Lange-Bertalot & Metzeltin)

Site: Not specified

Reference: Gonçalves 2008 (as *Sellaphora mutatoides* Lange-Bertalot & Metzeltin)

***Sellaphora nyassensis* (O. Müller) D.G. Mann 1989**, p. 2 [CAS ref. 006843]

Basionym: *Navicula nyassensis* O. Müller 1910 [CAS ref. 001402]

Distribution (Fig. 200):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula nyassensis*)

***Sellaphora pupula* (Kützing) Mereschkowsky 1902**, p. 187; pl. 4, fig. 1-5 [CAS ref. 002310]

Basionym: *Navicula pupula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 201):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula pupula*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Navicula pupula*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Sellaphora pupula* (Kütz.) Mereschkowsky)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula pupula* Kützing); Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Navicula pupula*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Sellaphora pupula*); de Figueiredo et al. 2006 (as *Sellaphora pupula* (Kützing) Mereschkowsky)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula pupula* Kützing)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: : Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Bolfiãr, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kützing)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pupula*)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

- Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Raivo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Redonda, Agueda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
- Reference: Gil & Almeida 1993 (as *Navicula pupula* Kützing)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula pupula* Kützing)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula pupula*); Almeida 1998 (as *Navicula pupula* Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula*)
- Site: Vila Verde, Levira River (Vouga Basin)
References: Almeida 2001 (as *Navicula pupula* Kützing); Almeida 1998 (as *Navicula pupula* Kützing)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)

- Reference: Calado 1991 (as *Navicula pupula* Kützing)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Cruz da Faia
- Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Diz River
- Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Navicula pupula* Kuetz.); Santos & Carvalho 2001 (as *Navicula pupula* Kuetz.)
- Site: Vela
- Reference: Carvalho 1913 (as *Navicula pupula* Kuetz.)
- Subregion: Beira Interior Sul
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
- Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula pupula*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Varzielas, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Navicula pupula*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula pupula* Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Navicula pupula* Kützing); Gil et al. 1989-1990 (as *Navicula pupula*)
- Subregion: Médio Tejo
- Municipality: Abrantes (District: Santarém)
- Site: Tramagal, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Navicula pupula*)
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Navicula pupula*)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula pupula*)
Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula pupula*)
Subregion: Pinhal Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Navicula pupula*)
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Navicula pupula*)
Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Navicula pupula* Kützing)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
References: Reference: Calado 1990 (as *Navicula pupula* Kützing); Gil et al. 1991 (as *Navicula pupula*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Navicula pupula*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984b (as *Navicula pupula*); Oliveira 1987 (as *Navicula pupula* Kz.)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Navicula pupula*); Oliveira 1996 (as *Navicula pupula*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Navicula pupula*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Navicula pupula* Kütz.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Navicula pupula*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Navicula pupula*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

References: INIP 1977 (as *Navicula pupula* Kütz.); Fernandes et al. 1987 (as *Navicula pupula*)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990 (as *Navicula pupula*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula pupula*)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Navicula pupula*); Brito & Andrade 1992 (as *Navicula pupula* (?))

Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Navicula pupula*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Lagos (District: Faro)

Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Navicula pupula*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Navicula pupula* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

- Site: Lagoa das Sete Cidades
References: Holmboe 1901 (as *Navicula pupula* Kütz.); Oliveira 1989 (as *Navicula pupula*)
- Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Manguin 1942 (as *Navicula pupula* Kütz.); Bourrelly & Manguin 1946a (as *Navicula pupula* Kütz.)
- Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Navicula pupula*)
- Site: Fundão, Caldeira
Reference: Azevedo et al. 2005 (as *Navicula pupula*)
- Site: Tanque
Reference: Azevedo et al. 2005 (as *Navicula pupula*)
- Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- Site: Not specified
Reference: Gonçalves 2008 (as *Sellaphora pupula* (Kützing) Mereschkowsky)
- REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Navicula pupula* Kützing (*Sellaphora*))

***Sellaphora rectangularis* (W. Gregory) Lange-Bertalot & Metzeltin 1996**, v. 2: p. 102-103; pl. 25, fig. 10-12, pl. 125, fig. 7 [CAS ref. 007048]

Basionym: *Stauroneis rectangularis* W. Gregory 1854 [CAS ref. 000393]

Nomenclatural synonym: *Navicula pupula* var. *rectangularis* (W. Gregory) Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 202):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow); Gil et al. 1989-1990 (as *Navicula pupula* v. *rectangularis*)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula pupula* v. *rectangularis*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Mölder 1947 (as *Navicula pupula* Kütz. v. *rectangularis* (Greg.) Grun.)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Sellaphora rectangularis* (Gregory) Lange-Bertalot & Metzeltin)

***Sellaphora rostrata* (Hustedt) J.R. Johansen in Johansen et al. 2004, p. 25 [CAS ref. 012667]**

Basionym: *Navicula pupula* var. *rostrata* Hustedt 1911 [CAS ref. 000492]

Distribution (Fig. 203):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Navicula pupula* Kütz. v. *rostrata* Hustedt)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Navicula pupula* v. *rostrata*)

***Sellaphora seminulum* (Grunow) D.G. Mann 1989**, p. 2 [CAS ref. 006843]

Basionym: *Navicula seminulum* Grunow 1860 [CAS ref. 000427]

Nomenclatural synonym: *Naviculadicta seminulum* (Grunow) Lange-Bertalot 2000 [CAS ref. 001332]

Distribution (Fig. 204):

REGION: NORTE

Subregion: Ave

Municipality: Guimarães (District: Braga)

Site: Rio Coelho

Reference: Zimmermann 1910 (as *Navicula seminulum* Grun.)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Navicula seminulum* Grunow); Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Navicula seminulum* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Navicula seminulum* Grunow)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

- Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Site: Bolfiar, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
- Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Site: Murta, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
- Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Site: Raivo, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
- Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
- References: Nunes et al. 2002 (as *Sellaphora seminulum* (Grunow) D.G. Mann); Nunes et al. 2003 (as *Sellaphora seminulum* (Grunow) D.G. Mann); Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann); Ferreira da Silva et al. 2009 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Espairo, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Mogofores, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Municipality: Aveiro (District: Aveiro)

- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Navicula seminulum* Grunow)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Navicula seminulum*); Almeida 1998 (as *Navicula seminulum* Grunow)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Navicula seminulum*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Navicula seminulum* Grunow)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

- Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Sellaphora seminulum* (Grunow) D.G. Mann)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Caldeirão
 Reference: Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Gonçalo
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Guarda
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Meios
 References: Carvalho 1913 (as *Navicula seminulum* Grun.); Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Navicula seminulum* Grun.); Santos & Carvalho 2001 (as *Navicula seminulum* Grun.)
 Site: Vela
 Reference: Carvalho 1913 (as *Navicula seminulum* Grun.)
 Site: Not specified
 Reference: Zimmermann 1910 (as *Navicula seminulum* Grun.)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula seminulum*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Navicula seminulum*)
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Navicula seminulum*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula seminulum* Grunow)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula seminulum* Grunow)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)

- Reference: Gil 1988 (as *Navicula seminulum* Grunow)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Navicula seminulum* Grunow)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Navicula seminulum*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Navicula seminulum* Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Navicula seminulum* Grunow); Gil et al. 1989-1990 (as *Navicula seminulum*)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Navicula seminulum* Grunow)
- Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 References: Calado 1990 (as *Navicula seminulum* Grunow); Gil et al. 1991 (as *Navicula seminulum*); Feio et al. 2007 (as *Sellaphora seminulum*)
- REGION: ALENTEJO
 Subregion: Alto Alentejo
 Municipality: Marvão (District: Portalegre)
 Site: Sever River (Tagus Basin)
 Reference: Oliveira 1975 (as *Navicula seminulum*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990 (as *Navicula seminulum*)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa Grande
 Reference: Holmboe 1901 (as *Navicula seminulum* Grun.)
 Municipality: Santa Cruz da Graciosa (Graciosa Island)
 Site: Barreiro
 Reference: Azevedo et al. 2005 (as *Navicula seminulum*)
 Site: Fundão, Caldeira
 Reference: Azevedo et al. 2005 (as *Navicula seminulum*)
 Site: Tanque
 Reference: Azevedo et al. 2005 (as *Navicula seminulum*)
 Municipality: Not specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: São Jorge Island
References: Johansson 1977 (as *Navicula seminulum* Grun.); Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

Site: Not specified
Reference: Gonçalves 2008 (as *Naviculadicta seminulum* (Grunow) Lange-Bertalot)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Navicula seminulum* Grunow (*Sellaphora*))

***Simonsenia* Lange-Bertalot 1979, p. 131**
[CAS ref. 003239]

***Simonsenia delognei* (Grunow) Lange-Bertalot 1979, p. 132; 19**
figs. [CAS ref. 003239]

Basionym: *Nitzschia delognei* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution:

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified

Reference: INAG I.P. 2008 (as *Simonsenia delognei* Lange-Bertalot)

Skeletonema Greville 1865, p. 43
[CAS ref. 000892]

Skeletonema costatum (Greville) Cleve 1873, p. 7 [CAS ref. 001797]

Basionym: *Melosira costata* Greville 1866 [CAS ref. 000984]

Distribution (Fig. 205):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Skeletonema costatum*)

Subregion: Not specified

Municipality: Not specified

Site: Upper Tagus Estuary (Tagus Basin)

Reference: Brogueira et al. 2007 (as *Skeletonema costatum*)

Skeletonema subsalsum (Cleve-Euler) Bethge 1928, p. 343 [CAS
ref. 002652]

Basionym: *Melosira subsalsa* Cleve-Euler 1912 [CAS ref. 001633]

Distribution (Fig. 206):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Skeletonema subsalsum*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?))

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Skeletonema subsalsum* (?)); Brito & Andrade 1992 (as *Skeletonema subsalsum* (?))

Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Skeletonema subsalsum*)

***Skeletonema* sp.**

Distribution (Fig. 207):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not specified

Site: Lima River (Lima Basin)

Reference: Cerqueira da Silva 1990 (as *Skeletonema* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Skeletonema* sp.)

***Stauroforma* Flower, V.J. Jones & Round 1996, p. 53
[CAS ref. 008205]**

***Stauroforma exiguiformis* (Lange-Bertalot) Flower, V.J. Jones &
Round 1996, p. 53-54; fig. 16-22 [CAS ref. 008205]**

Basionym: *Fragilaria exiguiformis* Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 208):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

Site: Not specified

References: Gonçalves 2008 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones et Round); Gonçalves et al. 2010 (as *Stauroforma exiguiformis* (Lange-Bertalot) Flower, Jones & Round)

***Stauroneis Ehrenberg 1843a*, p. 45**
[CAS ref. 001183]

***Stauroneis acuta* W. Smith 1853**, p. 59; pl. 19, fig. 187 [CAS ref. 000863]

Nomenclatural synonym: *Pleurostaurum acutum* (W. Smith) Rabenhorst 1859 [CAS ref. 002350]

Distribution (Fig. 209):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Vilarinho

Reference: Zimmermann 1910 (as *Pleurostaurum acutum* (W. Sm.) Rabenh.)

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Stauroneis acuta* W. Sm.)

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not specified

Reference: Silva 1946b (as *Stauroneis acuta* W. Sm., fossil)

***Stauroneis alpina* Hustedt 1943**, p. 154; fig. 18-19 [CAS ref. 001708]

Distribution (Fig. 210):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Stauroneis alpina* Hustedt)

***Stauroneis amphicephala* Kützing 1844**, p. 105; pl. 30, fig. 25 [CAS ref. 000595]

Nomenclatural synonyms: *Stauroneis anceps* var. *amphicephala* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Navicula anceps var. *amphicephala* (Kützing) Hustedt 1909 [CAS ref. 000491]

Distribution (Fig. 211):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

Site: Gonçalo

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

Site: Guarda

Reference: Zimmermann 1910 (as *Stauroneis anceps* Ehr. var. *amphicephala* V. H.)

Site: Guarda

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *amphicephala*)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Navicula anceps* (Ehr.) var. *amphicephala* Kg.)

***Stauroneis anceps* Ehrenberg 1843b**, p. 306 (18), 422; pl. 2/1, fig. 18 [CAS ref. 000294]

Distribution (Fig. 212):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Stauroneis anceps*)

Municipality: Not specified

Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Stauroneis anceps*)
Subregion: Tâmega
Municipality: Castelo de Paiva (District: Aveiro)
Site: Raiva
Reference: Tempère & Peragallo 1907-1915 (as *Stauroneis anceps* Eh.)

REGION: CENTRO

Subregion: Baixo Mondego
Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
Municipality: Montemor-o-Velho (District: Coimbra)
Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Caldeirão
References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)
Site: Cruz da Faia
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Cubo
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Gonçalo
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Guarda
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Lameirinhas
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Meios
References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Stauroneis anceps* Ehr.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr.)
Site: Porto da Carne
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
Site: Vela
Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)

- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Stauroneis anceps*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis anceps* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis anceps*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Stauroneis anceps* Ehrenberg)
- Subregion: Not specified
 Municipality: Not specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Stauroneis anceps*); Cerqueira da Silva et al. 1993 (as *Stauroneis anceps*); Cerqueira da Silva 1994 (as *Stauroneis anceps*)
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Stauroneis anceps* Ehrenberg)
 Site: Not specified
 References: Calado 1990 (as *Stauroneis anceps* Ehrenberg); Gil et al. 1991 (as *Stauroneis anceps*)

REGION: ALENTEJO

- Subregion: Alto Alentejo
 Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Stauroneis anceps*)
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Stauroneis anceps*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Stauroneis anceps*)
- Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Forte, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)
 Site: Porto de Beja, Água Forte Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)
 Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis anceps* Ehrenberg)
Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Stauroneis anceps* Ehr., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Krammer & Lange-Bertalot)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Stauroneis anceps* Ehr.)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Stauroneis anceps* Ehr.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Krammer & Lange-Bertalot)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Stauroneis anceps* Ehrenberg var. *anceps* Krammer & Lange-Bertalot)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Stauroneis anceps* Ehr.); Bourrelly & Manguin 1946a (as *Stauroneis anceps* Ehr.)
Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Stauroneis anceps* Ehrenberg)
Site: Not specified
Reference: Gonçalves 2008 (as *Stauroneis anceps* Ehrenberg)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stauroneis anceps* Ehrenberg)

***Stauroneis anceps* var. *hyalina* Peragallo & Brun in Héribaud 1893, p. 78; pl. 3, fig. 19 [CAS ref. 000481]**

Distribution (Fig. 213):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Stauroneis anceps* var. *hyalina* Brun et Peragallo, fossil)

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Stauroneis anceps* var. *hyalina* Brun et Peragallo, fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Stauroneis anceps* Ehr. var. *hyalina* Brun et Peragallo)

***Stauroneis anceps* var. *linearis* (Kützing) Rabenhorst [CAS ref. -]**

Distribution (Fig. 214):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Caldeirão

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Diz River

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Gonçalves

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Meios

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.); Santos & Carvalho 2001 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

Subregion: Cova da Beira

Municipality: Fundão (District: Castelo Branco)

Site: Serra da Gardunha

Reference: Zimmermann 1910 (as *Stauroneis anceps* Ehr. var. *linearis* (Kuetz.) Rabenh.)

***Stauroneis dubia* W. Gregory 1856**, p. 11; pl. 1, fig. 37 [CAS ref. 000397]

Distribution (Fig. 215):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Stauroneis dubia* Greg.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroneis dubia* Gregory)

***Stauroneis gracilior* E. Reichardt 1995**, p. 34; pl. 18, fig. 1-15 [CAS ref. 008704]

Replaced synonym: *Stauroneis anceps* f. *gracilis* Rabenhorst 1864 [CAS ref. 000775]

Distribution (Fig. 216):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst);

Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*); Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst);

Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst);

Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst);

Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *gracilis* Rabenhorst); Gil et al. 1989-1990 (as *Stauroneis anceps* f. *gracilis*)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified

Reference: Gil et al. 1991 (as *Stauroneis anceps* f. *gracilis*); Almeida & Gil 2001 (as *Stauroneis anceps* Ehrenberg f. *gracilis* Rabenhorst)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroneis gracilior* (Rabenhorst) Reichardt)

Site: Not specified

Reference: Gonçalves 2008 (as *Stauroneis gracilior* (Rabenhorst) Reichardt)

***Stauroneis gracilis* Ehrenberg 1843b**, p. 386 (98), 423; pl. 1/2, fig. 14, pl. 2/1, fig. 17 [CAS ref. 000294]

Nomenclatural synonym: *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun 1880 [CAS ref. 000174]

Distribution (Fig. 217):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Beira Interior Sul

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Stauroneis anceps* var. *gracilis* (Ehrenberg) Brun)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Stauroneis anceps* Ehr. var. *gracilis* Ehr., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Stauroneis anceps* Ehr. var. *gracilis* Ehr., fossil)

***Stauroneis javanica* f. *lapponica* (Hustedt) Hustedt 1959a**, p. 815; fig. 1160 [CAS ref. 000535]

Basionym: *Stauroneis obtusa* var. *lapponica* Hustedt 1924 [CAS ref. 000497]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stauroneis javanica* (Grunow) Cleve f. *lapponica* Hustedt 1959)

***Stauroneis kriegeri* R.M. Patrick 1945**, p. 175 [CAS ref. 000723]

New name for *Stauroneis pygmaea* Willi Krieger 1929 non Castracane 1886 [CAS ref. 001735]

Distribution (Fig. 218):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis kriegeri* Patrick)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Stauroneis kriegeri* Patrick)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Stauroneis kriegeri* Patrick)

***Stauroneis lanceolata* Kützing 1844**, p. 104; pl. 30, fig. 24 [CAS ref. 000595]

Distribution (Fig. 219):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Tambores, Furnas
Reference: Chaves 1908 (as *Stauroneis lanceolata*, fossil)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis lanceolata* Kützing, fossil)

***Stauroneis legumen* (Ehrenberg) Kützing 1844**, p. 107; pl. 29, fig. 11 [CAS ref. 000595]

Basionym: *Stauroptera legumen* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 220):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis legumen* (Ehr.) Kützing)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis legumen* (Ehr.) Kützing)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Stauroneis legumen* (Ehrenberg) Kützing)

***Stauroneis linearis* Ehrenberg 1843b**, p. 387 (99), 423; pl. 1/2, fig. 11 [CAS ref. 000294]

Nomenclatural synonyms: *Stauroneis anceps* var. *linearis* (Ehrenberg) Brun 1880 [CAS ref. 000174]

Stauroneis anceps f. *linearis* (Ehrenberg) Hustedt 1930 [CAS ref. 000502]

Distribution (Fig. 221):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Stauroneis anceps* v. *linearis*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Varzielas, Águeda River (Vouga Basin)

References: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt); Gil et al. 1989-1990 (as *Stauroneis anceps* v. *linearis*)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis anceps* Ehr. f. *linearis* (Ehr.) Hustedt)

***Stauroneis parvula* C. Janisch 1862**, p. 14 [CAS ref. 000540]

Distribution (Fig. 222):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not specified

References: Silva 1946a (as *Stauroneis parvula* Jan., fossil); Silva 1946b (as *Stauroneis parvula* Jan., fossil)

***Stauroneis phoenicenteron* (Nitzsch) Ehrenberg 1843b**, p. 311 (23);
pl. 2/5, fig. 1, pl. 3/2, fig. 3 [CAS ref. 000294]

Basionym: *Bacillaria phoenicenteron* Nitzsch 1817 [CAS ref. 000684]

Distribution (Fig. 223):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

- Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*); Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: Mogofões, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: São João de Azenha, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Tamengos, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg); Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
- Site: Vagueira, Canal de Mira
- Reference: Mendes et al. 2009 (as *Stauroneis phoenicenteron*)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: Viadouros, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis phoenicenteron*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Stauroneis phoenicenteron* Ehrenberg)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Alfarazes
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Caldeirão
References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Cruz da Faia
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Cubo
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Diz River
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Meios
References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.); Santos & Carvalho 2001 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Nueme
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Porto da Carne
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Vela
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)

Municipality: Tondela
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Stauroneis phoenicenteron* (Nitz.) Ehrenberg);
Gil et al. 1989-1990 (as *Stauroneis phoenicenteron*)

Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Frade 1961 (as *Stauroneis phoenicenteron* (Nitz.) Ehr.)

Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not specified
Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)

Subregion: Not specified
Municipality: Not specified
Site: Paiva River (Douro Basin)
Reference: Cerqueira da Silva 1994 (as *Stauroneis phoenicenteron*)
Site: Not specified
References: Calado 1990 (as *Stauroneis phoenicenteron* Ehrenberg); Gil et al. 1991 (as *Stauroneis phoenicenteron*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Stauroneis phoenicenteron*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)

- Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Stauroneis phoenicenteron*)
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis phoenicenteron*)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Stauroneis phoenicenteron*)
- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)
- Municipality: Rio Maior (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Stauroneis phoenicenteron* Ehr., fossil)
- Municipality: Santarém (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Stauroneis phoenicenteron*)
- Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis phoenicenteron*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Holmboe 1901 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)
- Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr.); Manguin 1942 (as *Stauroneis phoenicenteron* Ehr.); Bourrelly & Manguin 1946a (as *Stauroneis phoenicenteron* Ehr.)
- Site: Salto do Bargado, Furnas
Reference: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr., fossil)
- Site: Tambores, Furnas
Reference: Chaves 1908 (as *Stauroneis phoenicenteron* Ehr., fossil)
- Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)
- Site: Not specified
Reference: Gonçalves 2008 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Schodduyn 1927 (as *Stauroneis phoenicenteron* (Nitzsch) Ehr.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stauroneis phoenicenteron* (Nitzsch) Ehrenberg)

***Stauroneis polymorpha* Lagerstedt 1873**, p. 39; pl. 1, fig. 12 [CAS ref. 000597]

Distribution (Fig. 224):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Stauroneis polymorpha* Lag.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stauroneis polymorpha* Lagerstedt)

***Stauroneis producta* Grunow in Van Heurck 1880**, pl. 4, fig. 12 [CAS ref. 000895]

Distribution (Fig. 225):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Stauroneis producta* Grunow)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Stauroneis producta* Grun.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis producta* Grunow)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Stauroneis producta*)
- REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Stauroneis producta* Grunow)

***Stauroneis prominula* (Grunow in Cleve & Möller) Hustedt 1959a**,
p. 805; fig. 1153 [CAS ref. 000535]

Basionym: *Pleurostauron prominulum* Grunow in Cleve & Möller 1879a [CAS ref. 001978]

Nomenclatural synonym: *Stauroneis parvula* var. *prominula* (Grunow in Cleve & Möller) Grunow in Cleve 1894 [CAS ref. 000232]

Distribution (Fig. 226):

REGION: CENTRO

Subregion: Oeste

Municipality: Óbidos (District: Leiria)

Site: Not specified

Reference: Silva 1946b (as *Stauroneis parvula* var. *prominula* Grun., fossil)

***Stauroneis pseudosubobtusoides* H. Germain 1980, v. 1(1): p. 20; pl. 1, fig. 1-13 [CAS ref. 008253]**

Distribution (Fig. 227):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Varzílias, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis pseudosubobtusoides* Germain)

***Stauroneis punctata* Kützing 1844**, p. 106; pl. 21, fig. 9 [CAS ref. 000595]

Distribution (Fig. 228):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Stauroneis punctata*, fossil)

***Stauroneis salina* W. Smith 1853**, p. 60; pl. 19, fig. 188 [CAS ref. 000863]

Distribution (Fig. 229):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis salina* W. Smith)

***Stauroneis smithii* Grunow 1860**, p. 564; pl. 4, fig. 16, (pl. 6, fig. 16) [CAS ref. 000427]

Distribution (Fig. 230):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Stauroneis smithii* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grunow)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Stauroneis smithii* Grunow)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
- Site: Vagueira, Canal de Mira
Reference: Resende et al. 2005 (as *Stauroneis smithii*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Stauroneis smithii*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)

Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Stauroneis smithii* Grunow)
Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Stauroneis smithii* Grunow)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grunow)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Stauroneis smithii*)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Stauroneis smithii* Grunow)

***Stauroneis smithii* var. *borgei* (Manguin in Allorge & Manguin)
Hustedt 1959a, p. 811; fig. 1157 h-k [CAS ref. 000535]**

Basionym: *Stauroneis borgei* Manguin in Allorge & Manguin 1941 [CAS ref. 001076]

Distribution (Fig. 231):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin)
Hustedt)
Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)
- Subregion: Dão-Lafões
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *borgei* (Manguin) Hustedt)

***Stauroneis smithii* var. *incisa* Pantocsek 1902**, p. 28; pl. 2, fig. 45
[CAS ref. 000715]

Distribution (Fig. 232):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
Gil et al. 1989-1990 (as *Stauroneis smithii* v. *incisa*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
Gil et al. 1989-1990 (as *Stauroneis smithii* v. *incisa*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

- Site: Raivo, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek);
 Gil et al. 1989-1990 (as *Stauroneis smithii* v. *incisa*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Municipality: Mealhada (District: Aveiro)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Stauroneis smithii* v. *incisa*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stauroneis smithii* Grun. v. *incisa* Pantocsek)

***Stauroneis thermicola* (J.B. Petersen) J.W.G. Lund 1946**, p. 61; fig. 3K-AA [CAS ref. 001751]

Basionym: *Navicula thermicola* J.B. Petersen 1928a [CAS ref. 000742]

Distribution (Fig. 233):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis thermicola* (Petersen) Lund)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Stauroneis thermicola* (Petersen) Lund)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Stauroneis thermicola* (Petersen) Lund)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

References: Gonçalves 2008 (as *Stauroneis thermicola* (Petersen) Lund);

Gonçalves et al. 2010 (as *Stauroneis thermicola* (Petersen) Lund, fossil)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stauroneis thermicola* (Petersen) Lund)

***Stauroneis* sp.**

Distribution (Fig. 234):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Stauroneis* sp.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Stauroneis* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)

Municipality: Tomar (District: Santarém)

- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Cabeçadas et al. 1980 (as *Stauroneis* sp.)
- Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Stauroneis* sp.)
- Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Stauroneis* sp.)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
- Subregion: Oeste
- Municipality: Alenquer (District: Lisboa)
Site: Alenquer, Alenquer River (Tagus Basin)
Reference: Frade 1941a (as *Stauroneis* sp.)
- Site: Alenquer, Alenquer Reservoir
Reference: Frade 1941b (as *Stauroneis* sp.)
- REGION: ALENTEJO
- Subregion: Alentejo Central
- Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Stauroneis* sp.); Oliveira 1996 (as *Stauroneis* sp.)
- Subregion: Alto Alentejo
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stauroneis* sp.)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Stauroneis* sp.)
- REGION: AUTONOMOUS REGION OF AZORES
- Municipality: Not specified
Site: Not specified
Reference: Gonçalves 2008 (as *Stauroneis* sp.)
- REGION: Not specified
- Subregion: Not specified
- Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stauroneis* species)

***Staurosira Ehrenberg 1843a*, p. 45
[CAS ref. 001183]**

***Staurosira binodis* (Ehrenberg) Lange-Bertalot in Hofmann et al. 2011**, p. 260-261, Tafel 10: 7-12 [CAS ref. -]

Basionym: *Fragilaria binodis* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonyms: *Fragilaria construens* f. *binodis* (Ehrenberg) Hustedt 1957 [CAS ref. 000532]

Staurosira construens var. *binodis* (Ehrenberg) Hamilton in Hamilton et al. 1992 [CAS ref. 003248]

Distribution (Fig. 235):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow f. *binodis* (Ehrenberg) Hustedt)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow f. *binodis* (Ehrenberg) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira construens* var. *binodis* (Ehrenberg) Hamilton)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* f. *binodis* (Ehr.) Hustedt)

***Staurosira construens* Ehrenberg 1843b**, p. 424 (136) [CAS ref. 000294]

Nomenclatural synonym: *Fragilaria construens* (Ehrenberg) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 236):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosira construens* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Fragilaria construens* (Ehr.) Grun.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

References: Abrantes et al. 2006 (as *Fragilaria construens*); de Figueiredo et al. 2006 (as *Fragilaria construens* (Ehrenberg) Grunow)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Fragilaria construens*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

- References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosira construens* Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria construens*)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Fragilaria construens*); Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
- Site: Perrães, Levira River (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Fragilaria construens*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria construens* (Ehrenberg) Grunow)
 Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Fragilaria construens* (Ehrenberg) Grunow)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Fragilaria construens* (Ehr.) Grun.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
 Site: Varzielas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Fragilaria construens* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Fragilaria construens*)
- Subregion: Médio Tejo
 Municipality: Abrantes (District: Santarém)
 Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria construens*)
 Site: Forno Novo, Tagus River (Tagus Basin)
 Reference: Caldas 1988 (as *Fragilaria construens*)
- Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Fragilaria construens* (Ehr.) Grunow)
- Subregion: Not specified
 Municipality: Not specified
 Site: Not specified

Reference: Calado 1990 (as *Fragilaria construens* (Ehrenberg) Grunow);
Gil et al. 1991 (as *Fragilaria construens*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Pêgo do Altar Reservoir (ancient Salazar Reservoir), Alcáçovas Stream
(Sado Basin)

Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Fragilaria construens* (Ehrenberg)
Grunow)

Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)

Reference: Nauwerck 1962 (as *Fragilaria construens* (E.) Grun.)

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Fragilaria construens*)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Fragilaria construens* (Ehr.) Grun., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Fragilaria construens*)

Municipality: Povoação (São Miguel Island)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Fragilaria construens*, fossil)

Municipality: Vila Franca do Campo (São Miguel Island)

Site: Lagoa do Congro

References: Manguin 1942 (as *Fragilaria construens* (Ehr.) Grun.);

Bourrelly & Manguin 1946a (as *Fragilaria construens* (Ehr.) Grun.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg,
fossil)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg,
fossil)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg,
fossil)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Staurosira construens* Ehrenberg, fossil)

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira construens* Ehrenberg)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Tagus River (Tagus Basin)

Reference: Sabater et al. 2009 (as *Fragilaria construens*)

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow f. *construens* (*Staurosira*))

***Staurosira construens* var. *exigua* (W. Smith) H. Kobayasi in Mayama et al. 2002, p. 90 [CAS ref. 012558]**

Basionym: *Triceratium exiguum* W. Smith 1856 [CAS ref. 001007]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira construens* var. *exigua* (W. Smith) Kobayasi)

***Staurosira construens* var. *pumila* (Grunow) J.C. Kingston 2000, p. 409 [CAS ref. 009393]**

Basionym: *Fragilaria construens* var. *pumila* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow var. *pumila* Grunow)

***Staurosira pinnata* Ehrenberg 1843b**, p. 424 (136) [CAS ref. 000294]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira pinnata* Ehrenberg)

***Staurosira venter* (Ehrenberg) Cleve & Möller 1879a, No. 242**
[CAS ref. 001978]

Basionym: *Fragilaria venter* Ehrenberg 1854 [CAS ref. 000966]

Nomenclatural synonyms: *Fragilaria construens* var. *venter* (Ehrenberg) Grunow in Van Heurck 1881 [CAS ref. 001035]

Fragilaria construens f. *venter* (Ehrenberg) Hustedt 1957 [CAS ref. 000532]

Staurosira venter (Ehrenberg) H. Kobayasi in Mayama et al. 2002 [CAS ref. 012558]

Distribution (Fig. 237):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Cubo

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Site: Meios

References: Carvalho 1913 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.); Santos & Carvalho 2001 (as *Fragilaria construens* (Ehr.) Grun. var. *venter* Grun.)

Subregion: Dão-Lafões

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Fragilaria construens venter*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Fragilaria construens venter*)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Fragilaria construens* var. *venter* (Ehrenberg) Hustedt)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow); Bourrelly & Manguin 1946a (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

Reference: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Site: Ribeira Grande

References: Manguin 1942 (as *Fragilaria construens* var. *venter* (Ehr.) Grunow); Bourrelly & Manguin 1946a (as *Fragilaria construens* var. *venter* (Ehr.) Grunow)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Staurosira venter* (Ehrenberg) Cleve & Moeller)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Staurosira venter* (Ehrenberg) Cleve & Moeller)

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira* aff. *venter* (Ehrenberg) Cleve & Moeller)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria construens* (Ehr.) Grunow f. *venter* (Ehr.) Hustedt)

***Staurosira* sp.**

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Staurosira* sp.1 and *Staurosira* sp.2)

***Staurosirella* D.M. Williams & Round 1988, p. 274 [CAS ref. 003205]**

***Staurosirella leptostauron* (Ehrenberg) D.M. Williams & Round 1987, p. 276; fig. 22, 23 [CAS ref. 003171]**

Basionym: *Biblarium leptostauron* Ehrenberg 1854 [CAS ref. 000966]

Nomenclatural synonym: *Fragilaria leptostauron* (Ehrenberg) Hustedt 1931 [CAS ref. 000505]

Distribution (Fig. 238):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria leptostauron* (Ehrenberg) Hustedt)

Subregion: Baixo Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria leptostauron* (Ehrenberg) Hustedt var. *leptostauron*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Not specified

Reference: Johansson 1977 (as *Fragilaria leptostauron* (Ehr.) Hust.)

Municipality: Not specified

Site: Faial Island

Reference: Gonçalves et al. 2010 (as *Staurosirella leptostauron* (Ehrenberg) D.M. Williams & Round)

***Staurosirella martyi* (Héribaldi) E. Morales & Manoylov 2006**, p. 354 [CAS ref. 012808]

Basionym: *Opephora martyi* Héribaldi 1902 [CAS ref. 000991]

Nomenclatural synonyms: *Fragilaria leptostauron* var. *martyi* (Héribaldi) Lange-Bertalot in Krammer & Lange-Bertalot 1991a [CAS ref. 006521]

Distribution (Fig. 239):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Fragilaria leptostauron* (Ehrenberg) Hustedt var. *martyi* (Héribaldi) Lange-Bertalot)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Opephora martyi* Héribaldi)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Opephora martyi* Héribaldi)

***Staurosirella oldenburgiana* (Hustedt) E. Morales 2005**, p. 118 [CAS ref. 012984]

Basionym: *Fragilaria oldenburgiana* Hustedt 1959b [CAS ref. 000534]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Fragilaria oldenburgiana* Hustedt)

***Staurosirella pinnata* (Ehrenberg) D.M. Williams & Round 1987,**
p. 274 [CAS ref. 003171]

Basionym: *Fragilaria pinnata* Ehrenberg 1843b [CAS ref. 000294]

Distribution (Fig. 240):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round); Ferreira da Silva et al. 2009 (as *Fragilaria pinnata* Ehrenberg var. *pinnata* (*Staurosirella*))

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Fragilaria pinnata* Ehrenberg); Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria pinnata* Ehrenberg)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Fragilaria pinnata*)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)

- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Fragilaria pinnata*); Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria pinnata* Ehrenberg)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Fragilaria pinnata*)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Fragilaria pinnata* Ehrenberg)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouça Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Fragilaria pinnata*)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Calado 1990 (*Fragilaria pinnata* Ehrenberg)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Fragilaria pinnata* Ehrenberg)

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Fragilaria pinnata* E.)

Subregion: Baixo Alentejo

Municipality: Mértola (District: Beja)

Site: Reservoir in the abandoned São Domingos mine

Reference: Gerhardt et al. 2008 (as *Fragilaria pinnata* Ehrenberg)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Calheta (São Jorge Island)

Site: Pico do Calheta

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Lajes do Pico (Pico Island)

Site: Lagoa do Caiado

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa do Canário

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

Site: Lagoa Grande

- Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
 Site: Lagoa das Sete Cidades
 References: Mölder 1947 (as *Fragilaria pinnata* Ehr.); Oliveira 1989 (as *Fragilaria pinnata*)
 Municipality: Povoação (São Miguel Island)
 Site: Furnas
 Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
 Site: Lagoa das Furnas
 References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly & Manguin 1946a (as *Fragilaria pinnata* Ehrenberg); Mölder 1947 (as *Fragilaria pinnata* Ehr.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly & Manguin 1946a (as *Fragilaria pinnata* Ehrenberg)
 Municipality: Praia da Vitória (Terceira Island)
 Site: Lagoa do Negro
 Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Branca
 Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)
 Municipality: Vila do Porto (Santa Maria Island)
 Site: Not specified
 References: Manguin 1942 (as *Fragilaria pinnata* Ehrenberg); Bourrelly & Manguin 1946a (as *Fragilaria pinnata* Ehrenberg)
 Municipality: Not specified
 Site: Corvo Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: Santa Maria Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: São Jorge Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: São Miguel Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)
 Site: Terceira Island
 Reference: Gonçalves et al. 2010 (as *Staurosirella pinnata* (Ehrenberg) Williams & Round)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as *Fragilaria pinnata* Ehr.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria pinnata* Ehrenberg var. *pinnata* (*Staurosirella*))

***Stenopterobia* Brébisson ex Van Heurck 1896, p. 374**
[CAS ref. 000897]

***Stenopterobia curvula* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987, p. 108; pl. 58, fig. 1-4 [CAS ref. 006173]**

Basionym: *Nitzschia curvula* W. Smith 1856 [CAS ref. 001007]

Synonym: *Stenopterobia intermedia* (F.W. Lewis) Van Heurck 1896 [CAS ref. 000897], according to Krammer & Lange-Bertalot 1988, p. 209

Distribution (Fig. 241):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stenopterobia curvula* (W. Smith) Krammer)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Jorge Island

Reference: Gonçalves et al. 2010 (as *Stenopterobia curvula* (W. Smith) Krammer)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Stenopterobia curvula* (W. Smith) Krammer)

***Stenopterobia delicatissima* (F.W. Lewis) Brébisson ex Van Heurck 1896, p. 374 [CAS ref. 000897]**

Basionym: *Surirella delicatissima* F.W. Lewis 1864 [CAS ref. 000610]

Distribution (Fig. 242):

REGION: NORTE

Subregion: Cávado

Municipality: Not specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella delicatissima*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella delicatissima*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella delicatissima*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*); Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella delicatissima* Lewis)

Site: Bolfiar, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Stenopterobia delicatissima* (Lewis) Brébisson)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella delicatissima* Lewis)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella delicatissima* Lewis)
- Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella delicatissima* Lewis)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella delicatissima* Lewis); Gil et al. 1989-1990 (as *Surirella delicatissima*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Stenopterobia delicatissima* (Lewis) Brébisson)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Surirella delicatissima*)

Site: Not specified

References: Gil et al. 1991 (as *Surirella delicatissima*); Almeida & Gil 2001 (as *Stenopterobia delicatissima* (Lewis) Brébisson ex Van Heurck)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Surirella delicatissima* Lewis)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stenopterobia delicatissima* (F.W. Lewis) Brébisson ex Van Heurck)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stenopterobia delicatissima* (Lewis) Brébisson ex Van Heurck)

***Stenopterobia intermedia* (F.W. Lewis) Van Heurck 1896, p. 374 [CAS ref. 000897]**

Basionym: *Surirella intermedia* F.W. Lewis 1864 [CAS ref. 000610]

Synonym: *Stenopterobia curvula* (W. Smith) Krammer in Lange-Bertalot & Krammer 1987 [CAS ref. 006173], according to Krammer & Lange-Bertalot 1988, p. 209

Distribution (Fig. 243):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Achada

Reference: Mölder 1947 (as *Stenopterobia intermedia* Lewis)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Stenopterobia intermedia* Lewis)

***Stenopterobia sigmatella* (W. Gregory) R. Ross in Hartley, Ross & Williams 1986**, p. 610 [CAS ref. 002355]

Basionym: *Nitzschia sigmatella* W. Gregory 1855 [CAS ref. 000396]

Distribution (Fig. 244):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Dyer 1875 (as *Nitzschia sigmatella* Greg.); Holmboe 1901 (as *Nitzschia sigmatella* Greg.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Nitzschia sigmatella* Gregory)

Stephanodiscus Ehrenberg 1845b, p. 72
[CAS ref. 000955]

***Stephanodiscus alpinus* Hustedt 1942a**, p. 412; fig. 508 [CAS ref. 002054]

Distribution (Fig. 245):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Stephanodiscus alpinus* Hustedt)

Site: Not specified

Reference: Gonçalves 2008 (as *Stephanodiscus alpinus* Hustedt)

***Stephanodiscus astraea* (Ehrenberg) Grunow in Cleve & Grunow
1880, p. 114 [CAS ref. 000241]**

Basionym: *Discoplea astraea* Ehrenberg 1844 [CAS ref. 001185]

Distribution (Fig. 246):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Mogadouro (District: Bragança)

Site: Bemposta Reservoir, Douro River (Douro Basin)

Reference: Galhano et al. 1991 (as *Stephanodiscus astraea*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus astraea* (Ehrenb.) Grun.)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Frade 1961 (as *Stephanodiscus astraea* (Ehr.) Grun.)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Calado 1990 (as *Stephanodiscus astraea* (Ehrenberg) Grunow)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Stephanodiscus astraea* (E.) Grun.)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Stephanodiscus astraea* (E.) Grun.)

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Stephanodiscus astraea* Grun., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Stephanodiscus astraea* Grun., fossil)

Site: Not specified

Reference: Silva 1946b (as *Stephanodiscus astraea* (Ehr.) Grun., fossil)

***Stephanodiscus hantzschii* Grunow in Cleve & Grunow 1880**, p. 115; pl. 7, fig. 131 [CAS ref. 000241]

Synonym: *Stephanodiscus hantzschii* var. *pusilla* Grunow in Cleve & Grunow 1880 [CAS ref. 000241], according to Krammer & Lange-Bertalot 1991a, p. 73

Distribution (Fig. 247):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Stephanodiscus hantzschii*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus hantzschii* Grun.)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Stephanodiscus hantzschii* Grunow)

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: Fratel, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Stephanodiscus hantzschii*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Stephanodiscus hantzschii*)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)

REGION: LISBOA

Subregion: Península de Setúbal

- Municipality: Sesimbra (District: Setúbal)
 Site: Lagoa de Albufeira
 Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.)
- Municipality: Setúbal (District: Setúbal)
 Site: Sado River (Sado Basin)
 Reference: Zimmermann 1909b (as *Stephanodiscus hantzschii* Grun.)
- Subregion: Not specified
 Municipality: Not specified
 Site: Upper Tagus Estuary (Tagus Basin)
 Reference: Brogueira et al. 2007 (as *Stephanodiscus hantzschii*)
- REGION: ALENTEJO
- Subregion: Alentejo Central
- Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*); Oliveira 1984b (as *Stephanodiscus hantzschii*); Andrade & Brito 1995 (as *Stephanodiscus hantzschii*)
- Subregion: Alentejo Litoral
- Site: Sado Estuary (Sado Basin)
 Reference: Oliveira & Coutinho 1992 (as *Stephanodiscus hantzschii*)
- Site: Sado River (Sado Basin)
 Reference: Monteiro et al. 1995 (as *Stephanodiscus hantzschii*)
- Municipality: Alcácer do Sal (District: Setúbal)
 Site: São Romão, Sado River (Sado Basin)
 Reference: Coutinho 2003 (as *Stephanodiscus hantzschii* Grunow)
- Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
- Municipality: Santiago do Cacém (District: Setúbal)
 Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Stephanodiscus hantzschii*)
- Municipality: Castelo de Vide (District: Portalegre)
 Site: Póvoa e Meadas Reservoir, Nisa Stream (Tagus Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
- Municipality: Elvas, Portalegre (District: Portalegre)
 Site: Caia Reservoir, Caia River (Guadiana Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Stephanodiscus hantzschii* Grun.); Fernandes et al. 1987 (as *Stephanodiscus hantzschii*)

- Municipality: Nisa (District: Portalegre)
 Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: INIP 1977 (as *Stephanodiscus hantzschii* Grun.)
 Site: Poio Reservoir, Nisa Stream (Tagus Basin)
 Reference: Nauwerck 1962 (*Stephanodiscus hantzschii* Grunow)
- Subregion: Baixo Alentejo
 Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Stephanodiscus hantzschii*)
 Municipality: Ferreira do Alentejo (District: Beja)
 Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
- Subregion: Lezíria do Tejo
 Municipality: Cartaxo (District: Santarém)
 Site: Valada, Tagus River (Tagus Basin)
 Reference: Oliveira et al. 1989 (as *Stephanodiscus hantzschii*)
 Municipality: Salvaterra de Magos (District: Santarém)
 Site: Magos Reservoir, Magos Stream (Tagus Basin)
 Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* Grun.);
 Oliveira 1984a (as *Stephanodiscus hantzschii*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990 (as *Stephanodiscus hantzschii*)
- Subregion: Not specified
 Municipality: Not specified
 Site: Guadiana River (Guadiana Basin)
 Reference: Oliveira 1991 (as *Stephanodiscus hantzschii*)
 Site: Rocha da Galé, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Stephanodiscus hantzschii*)

REGION: ALGARVE

- Subregion: Algarve
 Municipality: Lagos (District: Faro)
 Site: Bravura Reservoir, Odiáxere Stream (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)
 Municipality: Silves (District: Faro)
 Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
 Reference: Oliveira 1984a (as *Stephanodiscus hantzschii*)

REGION: Not specified

- Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: INAG I.P. 2008 (as *Stephanodiscus hantzschii* Grunow in Cl. & Grun. 1880)

***Stephanodiscus hantzschii* var. *pusilla* Grunow in Cleve & Grunow 1880**, p. 115; pl. 7, fig. 132 [CAS ref. 000241]

Synonym: *Stephanodiscus hantzschii* Grunow in Cleve & Grunow 1880 [CAS ref. 000241], according to Krammer & Lange-Bertalot 1991a, p. 73

Distribution (Fig. 248):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Stephanodiscus hantzschii* v. *pusilla* Grunow)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Stephanodiscus hantzschii* v. *pusilla* Grunow)

Subregion: Alto Alentejo

Municipality: Nisa (District: Portalegre)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Stephanodiscus hantzschii* v. *pusilla* Grunow)

***Stephanodiscus medius* Håkansson 1986**, p. 32; fig. 11-14 [CAS ref. 009617]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Stephanodiscus medius* Håkansson)

***Stephanodiscus minutulus* (Kützing) Cleve & Möller 1882**, No. 300 [CAS ref. 001979]

Basionym: *Cyclotella minutula* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 249):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Stephanodiscus minutulus* (Kützing) Cleve & Möller)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Stephanodiscus minutulus* (Kützing) Cleve & Möller)

***Stephanodiscus parvus* Stoermer & Håkansson 1984**, p. 505; 11 figs. [CAS ref. 005581]

Distribution (Fig. 250):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Stephanodiscus parvus* Stoermer & Hakansson)

Subregion: Pinhal Interior Norte

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Stephanodiscus parvus* Stoermer & Hakansson)

***Stephanodiscus rotula* (Kützing) Hendey 1964**, p. 75 [CAS ref. 000480]

Basionym: *Cyclotella rotula* Kützing 1844 [CAS ref. 000595]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Stephanodiscus rotula* (Kützing) Hendey)

***Stephanodiscus tenuis* Hustedt 1939**, p. 583; fig. 3 [CAS ref. 000514]

Nomenclatural synonym: *Stephanodiscus hantzschii* f. *tenuis* (Hustedt) Håkansson & Stoermer 1984 [CAS ref. 002388]

Distribution (Fig. 251):

REGION: NORTE

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Stephanodiscus tenuis*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Stephanodiscus hantzschii* fo. *tenuis* (Hustedt) Håkansson & Stoermer)

Municipality: Not specified

Site: Pateira de Fermentelos (District: Aveiro)

Reference: Calado 1991 (as *Stephanodiscus tenuis* Hustedt)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Stephanodiscus tenuis*)

***Stephanodiscus tenuis* (Ehrenberg) Grunow** [CAS ref. -]

Distribution (Fig. 252):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

- Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Stephanodiscus tenuis* (Ehrenberg) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Stephanodiscus tenuis*)
 Municipality: Vouzela (District: Viseu)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Stephanodiscus tenuis* (Ehr.) Grunow)
 Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 References: Calado 1990 (as *Stephanodiscus tenuis* (Ehrenberg) Grunow); Gil et al. 1991 (as *Stephanodiscus tenuis*)

***Stephanodiscus* sp.**

Distribution (Fig. 253):

REGION: NORTE

Subregion: Minho-Lima

Municipality: Not specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Stephanodiscus* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

References: Cerqueira da Silva 1991 (as *Stephanodiscus* sp.); Cerqueira

da Silva et al. 1993 (as *Stephanodiscus* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Stephanodiscus* sp.)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Stephanodiscus* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not specified
Site: Not specified
Reference: Gonçalves 2008 (as *Stephanodiscus* sp.)

***Striatella* C. Agardh 1832**, p. 60
[CAS ref. 000940]

***Striatella interrupta* (Ehrenberg) Heiberg 1863**, p. 73; pl. 5, fig. 15
[CAS ref. 000471]

Basionym: *Tessella interrupta* Ehrenberg 1838 [CAS ref. 000288]

Distribution (Fig. 254):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Striatella interrupta* (Ehr.) Heib., fossil)

***Striatella unipunctata* (Lyngbye) C. Agardh 1832**, p. 61 [CAS ref. 000940]

Basionym: *Fragilaria unipunctata* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 255):

REGION: CENTRO
Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not specified
Reference: Silva 1946b (as *Striatella unipunctata* (Lyngb.) Ag., fossil)

Surirella Turpin 1828, p. 362, 363
[CAS ref. 000893]

***Surirella aculeata* Hustedt in Schmidt 1924b**, pl. 354, fig. 9, pl. 355,
fig. 1 [CAS ref. 012509]

Distribution (Fig. 256):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers
(Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima
River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella aculeata* Hustedt)

***Surirella amphioxys* W. Smith 1856**, p. 88 [CAS ref. 001528]

Synonym: *Surirella moelleriana* Grunow in Schmidt 1875c [CAS ref. 012446],
according to Krammer & Lange-Bertalot 1988, p. 189

Distribution (Fig. 257):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

Site: Minhoteira, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella amphioxys* W. Sm.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Cascais (District: Lisboa)

Site: Estoril

References: Lange-Bertalot & Krammer 1987 (as *Surirella amphioxys* W. Smith); Krammer & Lange-Bertalot 1988 (as *Surirella amphioxys* W. Smith)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Surirella amphioxys* W. Smith)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella amphioxys* W. Smith)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella amphioxys* W. Smith)

***Surirella angusta* Kützing 1844**, p. 61; pl. 30, fig. 52 [CAS ref. 000595]

Nomenclatural synonym: *Surirella ovalis* var. *angusta* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 258):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

- Reference: Nunes 2007 (as *Surirella angusta* Kützing)
Municipality: São João da Madeira (District: Aveiro)
Site: Uj River (Vouga Basin)
- Reference: Resende et al. 2009 (as *Surirella angusta* Kützing)
Municipality: Vale de Cambra (District: Aveiro)
Site: Barbeito, Caima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
Site: Vale de Cambra, Caima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)

REGION: CENTRO

Subregion: Baixo Mondego

- Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Surirella angusta* Kützing)
- Municipality: Figueira da Foz (District: Coimbra)
Site: Lagoa da Vela, Quiaios
Reference: Abrantes et al. 2006 (as *Surirella angusta*)

Subregion: Baixo Vouga

- Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella angusta* Kützing)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Surirella angusta* Kützing)
- Municipality: Estarreja (District: Aveiro)
Site: Estarreja, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Perrães, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella angusta* Kützing)
 Site: Vila Verde, Levira River (Vouga Basin)
- References: Almeida 1998 (as *Surirella angusta* Kützing); Almeida 2001
 (as *Surirella angusta* Kützing)
- Subregion: Dão-Lafões
 Municipality: Tondela (District: Viseu)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella angusta* Kützing)
- Subregion: Oeste
 Municipality: Torres Vedras (District: Lisboa)
 Site: Santa Cruz
 Reference: Zimmermann 1914 (as *Surirella ovalis* Bréb. var. *angusta*
 (Kuetz.) V.H.)
- Subregion: Not specified
 Municipality: Not specified
 Site: Bussaco
 Reference: Zimmermann 1906 (as *Surirella ovalis* Bréb. var. *angusta*
 (Kuetz.) V.H.)
- REGION: ALENTEJO
 Subregion: Baixo Alentejo
 Municipality: Aljustrel (District: Beja)
 Site: Água Azeda, Água Azeda Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Surirella angusta* Kützing)
 Site: Jungeiros, Roxo Stream (Sado Basin)
 Reference: Luís et al. 2009 (as *Surirella angusta* Kützing)
- REGION: AUTONOMOUS REGION OF AZORES
 Municipality: Povoação (São Miguel Island)
 Site: Pico da Vara
 Reference: Holmboe 1901 (as *Surirella angusta* Kütz.)
- Municipality: Not specified
 Site: Flores Island
 Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
 Site: Pico Island
 Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
 Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella angusta* Kützing)
Site: Not specified
Reference: Gonçalves 2008 (as *Surirella angusta* Kützing)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Mountain Rivers in the North
Reference: Morais et al. 2009 (as *Surirella angusta* Kützing)
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella angusta* Kützing)

***Surirella angustata* Kützing 1844 [CAS ref. -]**

Distribution (Fig. 259):

REGION: NORTE
Subregion: Not specified
Municipality: Not specified
Site: Serra do Gerês
Reference: Silva 1950a (as *Surirella angustata* Kütz.)

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella angustata*)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Raivo, Águeda River (Vouga Basin)

- Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Redonda, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Tamengos, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Municipality: Aveiro (District: Aveiro)
 Site: Aveiro, lake in the municipal park (artificial substrate)
 Reference: Gil & Almeida 1993 (as *Surirella angustata* Koetzing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella angustata*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella angustata* Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella angustata* Kützing); Gil et al. 1989-1990 (as *Surirella angustata*)

Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Surirella angustata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella angustata* Kützing)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
References: Calado 1990 (as *Surirella angustata* Kützing); Gil et al. 1991
(as *Surirella angustata*)

REGION: ALENTEJO

Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Surirella angustata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

References: Manguin 1942 (as *Surirella angustata* Kütz.); Bourrelly &
Manguin 1946a (as *Surirella angustata* Kütz.)

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Surirella angustata* Kütz.); Bourrelly &
Manguin 1946a (as *Surirella angustata* Kütz.)

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella angustata* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella angustata* Kützing)

***Surirella apiculata* W. Smith 1856, p. 88 [CAS ref. 001007]**

Distribution (Fig. 260):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Caldeirão

References: Carvalho 1913 (as *Surirella apiculata* W. Sm.); Santos & Carvalho 2001 (as *Surirella apiculata* W. Sm.)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Cubo

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Gonçalo

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Lameirinhas

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella apiculata* W. Sm.); Santos & Carvalho 2001 (as *Surirella apiculata* W. Sm.)

Site: Porto da Carne

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Vela

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Surirella apiculata* W. Sm.)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella apiculata* W. Sm.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ribeira Brava (Madeira Island)

Site: Pomar de Ambrosio, Campanário

Reference: Zimmermann 1909a (as *Surirella apiculata* W. Sm.)

Site: Sítio da Chamorra, Campanário

Reference: Zimmermann 1909a (as *Surirella apiculata* W. Sm.)

***Surirella biseriata* Brébisson in Brébisson & Godey 1835**, p. 53; pl. 7 [CAS ref. 000160]

Synonym: *Surirella celtica* H. Germain 1981 [CAS ref. 009183], according to Krammer & Lange-Bertalot 1988, p. 195

Distribution (Fig. 261):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)

Subregion: Cávado

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella biseriata*)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella biseriata* Bréb.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella biseriata*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella biseriata*)

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Surirella biseriata* Bréb.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Bolfiãr, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella biseriata* Brébisson)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella biseriata*)

- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Surirella biseriata*); Almeida 1998 (as *Surirella biseriata* Brébisson)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella biseriata*)
- Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella biseriata* Brébisson)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella biseriata* Brébisson)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
- Site: Diz River
 Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
- Site: Nueme
 Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb.)
- Subregion: Beira Interior Sul
 Municipality: Castelo Branco (District: Castelo Branco)
 Site: São Fiel
 Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
- Site: Torre, Ocreza River (Tagus Basin)
 Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
- Municipality: Vouzela (District: Viseu)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella biseriata* Brébisson)
Subregion: Médio Tejo
Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
Reference: Brito & Andrade 1992 (as *Surirella biseriata*)
Municipality: Torres Novas (District: Santarém)
Site: Almonda River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella biseriata* (Ehr.) Bréb.)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Surirella biseriata*)

REGION: ALENTEJO

Subregion: Alto Alentejo
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Gadiana Basin)
Reference: Oliveira 1984a (as *Surirella biseriata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: Not specified
Reference: Gonçalves et al. 2010 (as *Surirella biseriata* Brébisson in Brébisson & Godey, fossil)

REGION: Not specified

Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella biseriata* Brébisson in Brébisson & Godey)

***Surirella biseriata* var. *bifrons* (Ehrenberg) Hustedt 1911, p. 305**
[CAS ref. 000492]

Basionym: *Navicula bifrons* Ehrenberg 1835 [CAS ref. 000284]

Distribution:

REGION: NORTE

Subregion: Not specified
Municipality: Not specified
Site: Serra do Gerês

References: González-Guerrero 1950 (as *Surirella biseriata* Bréb. var. *bifrons* (Ehr.) Hust.); Silva 1950a (as *Surirella biseriata* Bréb. var. *bifrons* (Ehr.) Hust.)

***Surirella biseriata* var. *minor* Brébisson ex W. Smith Collection, Van Heurck Herbarium, Antwerp, Belgium [CAS ref. -]**

Distribution (Fig. 262):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Alfarazes

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Cubo

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Meios

References: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*); Santos & Carvalho 2001 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*); Santos & Carvalho 2001 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Vela

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

Site: Vila Patrício

Reference: Carvalho 1913 (as *Surirella biseriata* (Ehr.) Bréb. var. *minor*)

***Surirella brebissonii* Krammer & Lange-Bertalot 1987, p. 82, 85; fig. 1(ov2), 4, 5, 9, 21-33 [CAS ref. 008972]**

Distribution (Fig. 263):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Surirella brebissonii* Krammer & Lange-Bertalot)

Subregion: Baixo Vouga
Municipality: Aveiro (District: Aveiro)
Site: Vagueira, Canal de Mira
Reference: Mendes et al. 2009 (as *Surirella brebissonii*)

REGION: ALENTEJO
Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Not specified
Reference: Krammer & Lange-Bertalot 1988 (as *Surirella brebissonii*
Krammer & Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Not specified
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Surirella brebissonii* Krammer &
Lange-Bertalot)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella brebissonii* Krammer &
Lange-Bertalot)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella brebissonii* Krammer & Lange-
Bertalot var. *brebissonii*)

***Surirella brebissonii* var. *kuetzingii* Krammer & Lange-Bertalot
1987, p. 85; fig. 52-68 [CAS ref. 008972]**

Distribution (Fig. 264):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var.
kuetzingii Kram & L.-Bertalot)
Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var.
kuetzingii Kram & L.-Bertalot)
Municipality: Aveiro (District: Aveiro)
Site: Pano, Largo River (Vouga Basin)

- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram & L.-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella brebissonii* Kram. & L.-Bert. var. *kuetzingii* Kram. & L.-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella brebissonii* var. *kuetzingii* Krammer et Lange-Bertalot)

***Surirella brightwellii* W. Smith 1853**, p. 33; pl. 9, fig. 69 [CAS ref. 000863]

Distribution (Fig. 265):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)
Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella brightwellii* W. Smith)

***Surirella capronii* Brébisson ex Kitton 1869**, p. 61; fig. 43, 44 [CAS ref. 001107]

Distribution (Fig. 266):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella capronii* Brébisson)

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Surirella capronii*, fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Surirella capronii*, fossil)
Site: Not specified
Reference: Silva 1946b (as *Surirella capronii* Bréb., fossil)

***Surirella celtica* H. Germain 1981**, p. 386, 388; pl. 150, fig. 1, 2, pl. 162, fig. 1, 2 [CAS ref. 009183]

Synonym: *Surirella biseriata* Brébisson in Brébisson & Godey 1835 [CAS ref. 000160], according to Krammer & Lange-Bertalot 1988, p. 195

Distribution (Fig. 267):

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella celtica* Germain); Gil et al. 1989-1990 (as *Surirella celtica*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella celtica* Germain)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Surirella celtica*)

***Surirella constricta* W. Smith 1851**, p. 9 [CAS ref. 001528]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella constricta* W. Smith)

***Surirella crumena* Brébisson ex Kützing 1849**, p. 38 [CAS ref. 000596]

Nomenclatural synonym: *Surirella ovalis* var. *crumena* (Brébisson ex Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 268):

REGION: CENTRO

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Surirella ovalis* Bréb. var. *crumena* (Bréb.) V.H.)

***Surirella delicatissima* f. *tenuissima* Manguin 1942**, p. 156; pl. 4, fig. 85 [CAS ref. 000623]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Surirella delicatissima* Lewis fo. *tenuissima* Manguin); Bourrelly & Manguin 1946a (as *Surirella delicatissima* Lewis fo. *tenuissima* Manguin)

***Surirella elegans* Ehrenberg 1843b**, p. 424 (136); pl. 3/1, fig. 22 [CAS ref. 000294]

Distribution (Fig. 269):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella elegans* Ehr.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella elegans*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

Municipality: Aveiro (District: Aveiro)

Site: Vagueira, Canal de Mira

Reference: Resende et al. 2005 (as *Surirella elegans*)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella elegans* Ehr.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella elegans* Ehrenberg)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Surirella elegans*)
Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Surirella elegans*)

***Surirella helvetica* Brun 1880**, p. 100; pl. 2, fig. 4, pl. 9, fig. 28 [CAS ref. 000174]

Nomenclatural synonym: *Surirella linearis* var. *helvetica* (Brun) F. Meister 1912 [CAS ref. 000642]

Distribution (Fig. 270):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella linearis* var. *helvetica* (Brun) Meister)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun) Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)

Site: Redonda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith var. *helvetica* (Brun Meister); Gil et al. 1989-1990 (as *Surirella linearis* v. *helvetica*)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Surirella linearis* v. *helvetica*)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella linearis* W.M. Smith var. *helvetica* (Brun) Meister)

***Surirella linearis* W. Smith 1853**, p. 31; pl. 8, fig. 58 [CAS ref. 000863]

Distribution (Fig. 271):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Municipality: Terras de Bouro (District: Braga)

Site: Borrageira (Serra do Gerês)

Reference: González-Guerrero 1949 (as *Surirella linearis* W. Smith)

Municipality: Not specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella linearis*)

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Surirella linearis* W.M. Smith); Nunes 2007 (as *Surirella linearis* W.M. Smith)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Surirella linearis* W. Smith)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella linearis* W. Smith)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella linearis* W. Smith)

Subregion: Grande Porto

Municipality: Vila Nova de Gaia (District: Porto)

- Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Surirella linearis*)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
- Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: Sains, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
- Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Surirella linearis*)
- Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
- Site: Barragem de Covas, Coura River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Surirella linearis*)
- Municipality: Not specified
- Site: Altar de Cabrões (Serra do Gerês)
Reference: González-Guerrero 1949 (as *Surirella linearis* W. Smith)
- Site: Malhadoiro (Serra do Gerês)
Reference: González-Guerrero 1950 (as *Surirella linearis* W. Smith)
- Site: Minho River (Minho Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Surirella linearis*)
- Site: Neiva River (Neiva Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Surirella linearis*)
- Subregion: Not specified
- Municipality: Not specified
- Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Surirella linearis*)
- REGION: CENTRO
- Subregion: Baixo Mondego
- Municipality: Montemor-o-Velho (District: Coimbra)
- Site: Irrigation channel near Montemor-o-Velho
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
- Municipality: Soure (District: Coimbra)
- Site: Irrigation channel near Soure
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Águeda, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*); Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
Reference: Nunes 2007 (as *Surirella linearis* W.M. Smith)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Surirella linearis* W.M. Smith)
- Municipality: Anadia (District: Aveiro)
Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Aveiro (District: Aveiro)
Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Surirella linearis* W. Smith)

- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella linearis* W. Smith)
- Municipality: Sever do Vouga (District: Aveiro)
 Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
 Reference: Nunes 2007 (as *Surirella linearis* W.M. Smith)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella linearis* W. Smith)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Cruz da Faia
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Site: Cubo
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Site: Diz River
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Site: Gonçalo
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Surirella linearis* W. Sm.); Santos & Carvalho 2001 (as *Surirella linearis* W. Sm.)
- Site: Nueme
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)
- Site: Vela
 Reference: Carvalho 1913 (as *Surirella linearis* W. Sm.)

- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Surirella linearis*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith); Gil et al. 1989-1990 (as *Surirella linearis*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella linearis*)
- Subregion: Oeste
Municipality: Óbidos (District: Leiria)
Site: Not specified
Reference: Silva 1946b (as *Surirella linearis* W. Sm., fossil)
- Subregion: Pinhal Interior Norte
Municipality: Pampilhosa da Serra (District: Coimbra)
Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
Site: Pond near Lagoa Comprida

Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Surirella linearis* W. Smith)
Subregion: Not specified
Municipality: Not specified
Site: Bussaco
Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm.)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Surirella linearis*); Cerqueira da Silva et al. 1993 (as *Surirella linearis*); Cerqueira da Silva 1994 (as *Surirella linearis*)
Site: Vouga River (Vouga Basin)
Reference: Ferreira et al. 2002 (as *Surirella linearis*)
Site: Not specified
References: Calado 1990 (as *Surirella linearis* W. Smith); Gil et al. 1991 (as *Surirella linearis*); Almeida & Gil 2001 (as *Surirella linearis* W. Smith)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella linearis*)

Municipality: Nisa (District: Portalegre)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella linearis*)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella linearis*)

Subregion: Not specified

Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Surirella linearis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Site: Lagoa da Falca (Terceira Island)

Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)

Site: Lagoa da Joaninha

Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Surirella linearis* Smith)
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Holmboe 1901 (as *Surirella linearis* W. Sm.); Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Site: Lagoa do Negro
Reference: Gonçalves 1996 (as *Surirella linearis* W. Smith)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Municipality: Not specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Surirella linearis* W. Sm.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm.)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: São Jorge Island
References: Johansson 1977 (as *Surirella linearis* W. Smith); Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Surirella linearis* W.M. Smith)
Site: Not specified
Reference: Gonçalves 2008 (as *Surirella linearis* W.M. Smith)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella linearis* W.M. Smith)

***Surirella linearis* var. *constricta* Grunow 1862**, p. 141 (455) [CAS ref. 000428]

Distribution (Fig. 272):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)

Site: Tourim, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)

Site: São Lourenço da Montaria, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella linearis* var. *constricta*)

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Silva 1950a (as *Surirella linearis* W. Smith var. *constricta* (Ehr.) Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow); Gil et al. 1989-1990 (as *Surirella linearis* v. *constricta*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Surirella linearis* W. Sm. var. *constricta* Grun.); Santos & Carvalho 2001 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)
- Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella linearis* W. Smith v. *constricta* (Ehr.) Grunow)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1906 (as *Surirella linearis* W. Sm. var. *constricta* Grun.)

Subregion: Not specified

Municipality: Not specified

Site: Paiva River (Douro Basin)

Reference: Cerqueira da Silva 1994 (as *Surirella linearis* v. *constricta*)

Site: Not specified

Reference: Gil et al. 1991 (as *Surirella linearis* v. *constricta*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Lajes das Flores (Flores Island)

Site: Lagoa Rasa

References: Manguin 1942 (as *Surirella linearis* W. Sm. var. *constricta* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Surirella linearis* W. Sm. var. *constricta* (Ehr.) Grun.)

***Surirella linearis* var. *elliptica* O. Müller 1903**, p. 30; pl. 1, fig. 10
[CAS ref. 001399]

Distribution (Fig. 273):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Porto

Reference: Tempère & Peragallo 1907-1915 (as *Surirella linearis* v. *elliptica*)

Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Surirella linearis* v. *elliptica*)

***Surirella minuta* Brébisson 1838**, p. 17 [CAS ref. 000161]

Nomenclatural synonym: *Surirella ovalis* var. *minuta* (Brébisson) Van Heurck 1896 [CAS ref. 000897]

Distribution (Fig. 274):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella minuta* Bréb.)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella minuta* Bréb.)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Barro

Reference: Zimmermann 1910 (as *Surirella ovalis* (Bréb.) var. *minuta* (Bréb.) V. H.)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Surirella minuta* Brébisson)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella minuta* Brébisson)

Site: Not specified

Reference: Gonçalves 2008 (as *Surirella minuta* Brébisson)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella minuta* Brébisson)

***Surirella moelleriana* Grunow in Schmidt 1875c**, pl. 23, fig. 36
[CAS ref. 012446]

Distribution (Fig. 275):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Pico da Vara

Reference: Mölder 1947 (as *Surirella moelleriana* Grun.)

Municipality: Santa Cruz das Flores (Flores Island)

Site: Lagoa Branca

Reference: Mölder 1947 (as *Surirella moelleriana* Grun.)

***Surirella nana* Cleve-Euler 1915**, p. 50; pl. 4, fig. 93 [CAS ref. 000246]

Distribution (Fig. 276):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Surirella nana*)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Surirella nana*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Surirella nana*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Cabril Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Surirella nana*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Surirella nana* A. Cl.)

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Surirella nana*)

***Surirella nervosa* (A.W.F. Schmidt in Schmidt 1875c) Ant. Mayer 1913**, p. 341; pl. 23, fig. 5, pl. 28, fig. 8, 9 [CAS ref. 000551]

Basionym: *Surirella tenera* var. *nervosa* A.W.F. Schmidt in Schmidt 1875c [CAS ref. 012446]

Distribution (Fig. 277):

REGION: NORTE

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella tenera* var. *nervosa* A. S.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)

- Municipality: Aveiro (District: Aveiro)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
- Site: Perrães, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella tenera* v. *nervosa*)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella tenera* Gregory var. *nervosa* A. Schmidt)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Diz River
 Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *nervosa* A. S.)
- Site: Vila Patrício
 Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *nervosa* A. S.)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Greg. v. *nervosa* A. Schmidt)
- Subregion: Not specified
 Municipality: Not specified
 Site: Not specified
 Reference: Gil et al. 1991 (as *Surirella tenera* v. *nervosa*)

***Surirella oblonga* Ehrenberg 1843b**, p. 388 (100); pl. 1/4, fig. 4
[CAS ref. 000294]

Distribution (Fig. 278):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Surirella oblonga* Ehr., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Surirella oblonga* Ehr., fossil)

***Surirella ovalis* Brébisson 1838**, p. 17 [CAS ref. 000161]

Distribution (Fig. 279):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella ovalis* Brébisson)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Surirella ovalis* Brébisson)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Site: Vila Verde, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella ovalis* Brébisson)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Surirella ovalis*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Surirella ovalis*)

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Zimmermann 1909b (as *Surirella ovalis* Bréb.)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella ovalis* Bréb.)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida & Gil 2001 (as *Surirella ovalis* Brébisson)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Oliveira & Monteiro 1995 (as *Surirella ovalis*); Oliveira 1996 (as *Surirella ovalis*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Surirella ovalis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Surirella ovalis* Bréb.)

Site: Furnas

Reference: Mölder 1947 (as *Surirella ovalis* Bréb.)

Site: Ribeira Quente

Reference: Mölder 1947 (as *Surirella ovalis* Bréb.)

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella ovalis* Brébisson)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella ovalis* Brébisson)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: São João Stream

Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo
Reference: Zimmermann 1910-1911 (as *Surirella ovalis* Bréb.)
Municipality: Ribeira Brava (Madeira Island)
Site: Pomar de Ambrosio, Campanário
Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Surirella ovalis* Bréb.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not specified
References: Manguin 1942 (as *Surirella ovalis* Bréb.); Bourrelly & Manguin 1946a (as *Surirella ovalis* Bréb.)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella ovalis* Brébisson)

***Surirella ovalis* var. *apiculata* O. Müller 1903**, p. 36; pl. 2, fig. 10
[CAS ref. 001399]

Distribution (Fig. 280):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Ribeira Quente
References: Manguin 1942 (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.); Bourrelly & Manguin 1946a (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not specified
References: Manguin 1942 (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.); Bourrelly & Manguin 1946a (as *Surirella ovalis* Bréb. var. *apiculata* O. Müll.)

***Surirella ovata* Kützing 1844**, p. 62; pl. 7, fig. 1-4 [CAS ref. 000595]

Nomenclatural synonym: *Surirella ovalis* var. *ovata* (Kützing) Van Heurck 1885
[CAS ref. 001040]

Distribution (Fig. 281):

REGION: NORTE

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Municipality: Not specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Surirella ovata*)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Surirella ovata* Kütz.)

Municipality: Vila Nova de Gaia (District: Porto)

Site: Febros River (Douro Basin)

Reference: Cerqueira da Silva 1993 (as *Surirella ovata*)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella ovata* Kützing)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990 (as *Surirella ovata*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella ovata* Kützing)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Municipality: Anadia (District: Aveiro)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Surirella ovata*)

Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990 (as *Surirella ovata*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Surirella ovata* Kützing); Gil et al. 1989-1990 (as *Surirella ovata*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Surirella ovata*)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella ovata* Kützing)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella ovata* Kützing)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Surirella ovata*)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella ovata*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella ovata*)
- REGION: ALENTEJO
Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella ovata*)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella ovata*)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Surirella ovata* Kütz.)

REGION: AUTONOMOUS REGION OF MADEIRA
Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Surirella ovalis* Bréb. var. *ovata* (Kuetz.) V.H.)

***Surirella ovata* var. *apiculata* W. Smith 1853 [CAS ref. 000863]**

Distribution:

REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Surirella ovata* Kg. var. *apiculata* W. Smith)

***Surirella ovata* var. *salina* (W. Smith) Rabenhorst 1864, p. 57 [CAS ref. 000775]**

Basionym: *Surirella salina* W. Smith 1851 [CAS ref. 001528]

Distribution (Fig. 282):

REGION: NORTE
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Surirella ovata* var. *salina*)

***Surirella ovulum* Hustedt 1942b**, p. 164; pl. 411 [CAS ref. 000516]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Surirella ovulum* Hustedt)

***Surirella pinnata* W. Smith 1853**, p. 34; pl. 9, fig. 72 [CAS ref. 000863]

Nomenclatural synonym: *Surirella ovalis* var. *pinnata* (W. Smith) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 283):

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Comenda

Reference: Zimmermann 1910 (as *Surirella ovalis* Bréb. var. *pinnata* (W. Sm.) V. H.)

***Surirella rattrayi* A.W.F. Schmidt in Schmidt 1875c**, pl. 23, fig. 18-21 [CAS ref. 012446]

Distribution (Fig. 284):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Porto

Reference: Tempère & Peragallo 1907-1915 (as *Surirella rattrayi* A. S.)

***Surirella roba* L. Leclercq 1983**, p. 495; fig. 1(2-6), 2(2-8), 3(1-6) [CAS ref. 008478]

Distribution (Fig. 285):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Arouca (District: Aveiro)

Site: Serra da Freita, Arões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Surirella roba* Leclercq); Nunes 2007 (as *Surirella roba* Leclercq); Ferreira da Silva et al. 2009 (as *Surirella roba* Leclercq)

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Surirella roba* Leclercq); Nunes 2007 (as *Surirella roba* Leclercq)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella roba* Leclercq)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Ribeira de Fráguas, Coval da Mó Mine, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Silva Escura (upstream of the Braçal Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)

Reference: Nunes 2007 (as *Surirella roba* Leclercq)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Sabugueiro, Lagoacho Reservoir

Reference: Santos et al. 2002 (as *Surirella roba* Leclercq)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Surirella roba* Leclercq)

Site: Not specified

Reference: Gonçalves 2008 (as *Surirella roba* Leclercq)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Surirella roba* Leclercq)

***Surirella robusta* Ehrenberg 1840a**, p. 215 [CAS ref. 000293]

Distribution (Fig. 286):

REGION: NORTE

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella robusta*)

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella robusta* Ehr.)

Subregion: Douro

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella robusta*)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella robusta*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella robusta*)

Municipality: Vila Nova de Cerveira (District: Viana do Castelo)

Site: Barragem de Covas, Coura River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Surirella robusta*)

Municipality: Not specified

Site: Minho River, international section (Minho Basin)

Reference: Vasconcelos & Cerqueira 2001 (as *Surirella robusta*)

Subregion: Not specified

Municipality: Not specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al. 1991a (as *Surirella robusta*); Branco et al. 1991b (as *Surirella robusta*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Surirella robusta* Ehrnb.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*); Almeida 1998 (as *Surirella robusta* Ehrenberg)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)

- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
- Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
- Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Surirella robusta*)
- Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Surirella robusta* Ehrenberg)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Surirella robusta*); Almeida 1998 (as *Surirella robusta* Ehrenberg)
- Municipality: Not specified
- Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Surirella robusta* Ehrenberg)
- Subregion: Beira Interior Sul
- Municipality: Idanha-a-Nova (District: Castelo Branco)
- Site: Idanha Reservoir, Ponsul River (Tagus Basin)
 Reference: Oliveira 1982c (as *Surirella robusta*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Site: Varzuelas, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella robusta* Ehrenberg); Gil et al. 1989-1990 (as *Surirella robusta*)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella robusta* Ehrenberg)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Surirella robusta*)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 References: Nauwerck 1962 (as *Surirella robusta* Ehrenb.); Vasconcelos et al. 2001 (as *Surirella robusta*); Santos & Carvalho 2001 (as *Surirella robusta* E.); MAOT 2002 (as *Surirella robusta*)
 Subregion: Not specified
 Municipality: Not specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Surirella robusta*); Cerqueira da Silva et al. 1993 (as *Surirella robusta*)
 Site: Not specified
 References: Calado 1990 (as *Surirella robusta* Ehrenberg); Gil et al. 1991 (as *Surirella robusta*)
- REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Arraiolos (District: Évora)
 Site: Divor Reservoir, Divor Stream (Tagus Basin)
 References: Oliveira 1984b (as *Surirella robusta*); Oliveira 1987 (as *Surirella robusta*)
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Surirella robusta*); Oliveira 1996 (as *Surirella robusta*)
 Subregion: Alto Alentejo

- Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Surirella robusta*)
- Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Surirella robusta*)
- Municipality: Nisa (District: Portalegre)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Surirella robusta*)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella robusta*)
- Subregion: Lezíria do Tejo
Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Surirella robusta*)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Surirella robusta*)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Bouça Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Surirella robusta*)
- Subregion: Not specified
Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella robusta*)
- REGION: ALGARVE
Subregion: Algarve
Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Surirella robusta*)
- REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Surirella robusta* Ehrenberg)

***Surirella smithii* Ralfs in Pritchard 1861**, p. 794 [CAS ref. 001063]

Distribution (Fig. 287):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Surirella smithii* Ralfs, fossil)

***Surirella splendida* (Ehrenberg) Kützing 1844**, p. 62; pl. 7, fig. 9
[CAS ref. 000595]

Basionym: *Navicula splendida* Ehrenberg 1832 [CAS ref. 000282]

Nomenclatural synonym: *Surirella robusta* var. *splendida* (Ehrenberg) Van
Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 288):

REGION: NORTE

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Guilhofrei Reservoir, Ave River (Ave Basin)

Reference: Nauwerck 1962 (as *Surirella robusta* (E.) v. *splendida* (E.)
V.H.)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Surirella splendida* (Ehrenberg)
Kützing)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van
Heurck)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van
Heurck); Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella splendida* (Ehrenberg) Kützing)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: São Fiel, Ocreza River (Tagus Basin)

Reference: Zimmermann 1906 (as *Surirella splendida* (Ehr.) Kuetz.)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Surirella robusta* Ehr. v. *splendida* (Ehr.) Van Heurck)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Surirella robusta* v. *splendida*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Surirella robusta* var. *splendida*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Surirella robusta* var. *splendida*)
Municipality: Elvas, Portalegre (District: Portalegre)
Site: Caia Reservoir, Caia River (Gadiana Basin)
Reference: Oliveira 1984a (as *Surirella robusta* var. *splendida*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Surirella robusta* var. *splendida*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Surirella splendida* (Ehrenberg)
Kützing)

***Surirella sublinearis* Hustedt 1942b**, p. 150; fig. 373-376 [CAS ref. 000516]

Distribution (Fig. 289):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
Municipality: Aveiro (District: Aveiro)

- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella sublinearis* Hustedt)
- Subregion: Not specified
- Municipality: Not specified
- Site: Not specified
 Reference: Gil et al. 1991 (as *Surirella sublinearis*)

***Surirella tenera* W. Gregory 1856**, p. 11; pl. 1, fig. 38 [CAS ref. 000397]

Distribution (Fig. 290):

REGION: NORTE

Subregion: Ave

Municipality: Vila Nova de Famalicão (District: Braga)

Site: Minho River (Minho Basin)

Reference: Zimmermann 1906 (as *Surirella tenera* Greg.)

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella tenera* Gregory)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Surirella tenera* Greg.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Gondar Stream (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

Municipality: Viana do Castelo (District: Viana do Castelo)

Site: Alhada, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Surirella tenera*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)

Site: Tentúgal, Olho da Ribeira dos Moinhos

Reference: Nauwerck 1959 (as *Surirella tenera* Greg.)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*); Almeida 1998 (as *Surirella tenera* Gregory)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Surirella tenera* Gregory)

Site: Óis da Ribeira, Águeda River (Vouga Basin)

Reference: Almeida 1998 (as *Surirella tenera* Gregory)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Raivo, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Redonda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
- Municipality: Estarreja (District: Aveiro)
- Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Perrães, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Perrães, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Site: Vila Verde, Levira River (Vouga Basin)
- Reference: Almeida 1998 (as *Surirella tenera* Gregory)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Site: Cruz da Faia
- Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Site: Diz River
- Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Site: Lameirinhas
- Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Surirella tenera* Greg.); Santos & Carvalho 2001 (as *Surirella tenera* Greg.)
- Site: Vela
- Reference: Carvalho 1913 (as *Surirella tenera* Greg.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
- Reference: Zimmermann 1906 (as *Surirella tenera* Greg.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)

- References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: São João do Monte, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Surirella tenera* Gregory); Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Site: In the proximity of Tondela, Criz River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil et al. 1989-1990 (as *Surirella tenera*)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Surirella tenera* Gregory)
 Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Frade 1961 (as *Surirella tenera*)
 Subregion: Pinhal Interior Norte
 Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
 Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Sabugueiro, Vale do Rossim Reservoir
 Reference: Santos et al. 2002 (as *Surirella tenera* Gregory)
 Subregion: Not specified
 Municipality: Not specified
 Site: Paiva River (Douro Basin)
 Reference: Cerqueira da Silva 1994 (as *Surirella tenera*)
 Site: Not specified
 References: Calado 1990 (as *Surirella tenera* Gregory); Gil et al. 1991 (as *Surirella tenera*)
- REGION: ALENTEJO
 Subregion: Alentejo Central
 Municipality: Évora (District: Évora)
 Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
 References: Oliveira & Monteiro 1995 (as *Surirella tenera*); Oliveira 1996 (as *Surirella tenera*)
 Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Surirella tenera*)

***Surirella tenera* var. *splendidula* A.W.F. Schmidt in Schmidt 1875c**, pl. 23, fig. 4-6 [CAS ref. 012446]

Distribution (Fig. 291):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Cruz da Faia

Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.)

Site: Diz River

Reference: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Surirella tenera* Greg. var. *splendidula* A.S.); Santos & Carvalho 2001 (as *Surirella tenera* Greg. var. *splendidula* A.S.)

***Surirella terricola* Lange-Bertalot & Alles in Lange-Bertalot & Metzeltin 1996**, v. 2: p. 107-108; pl. 106, fig. 16, pl. 77, fig. 15-19 [CAS ref. 007048]

Distribution (Fig. 292):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Surirella terricola* Lange-Bertalot & E. Alles)

***Surirella turgida* W. Smith 1853**, p. 31; pl. 9, fig. 60 [CAS ref. 000863]

Distribution (Fig. 293):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)
Site: Espanadal diatomite
Reference: Zbyszewski 1943 (as *Surirella turgida* W. Sm., fossil)
Site: Rio Maior diatomite
Reference: Lefébure 1938 (as *Surirella turgida* W. Sm., fossil)
Site: Not specified
Reference: Silva 1946b (as *Surirella turgida* W. Sm., fossil)

***Surirella* sp.**

Distribution (Fig. 294):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Surirella* sp.)

Subregion: Ave

Municipality: Fafe (District: Braga)

Site: Travassós, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella* spp.)

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Surirella* sp.)

Subregion: Douro

Municipality: Armamar (District: Viseu)

Site: Queimadela, Vizela River (Ave Basin)

Reference: Fidalgo 1990 (as *Surirella* spp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Surirella* spp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Cabeçadas et al. 1980 (as *Surirella* sp.); Brito & Andrade 1992 (as *Surirella* sp.); Brito & Andrade 1992 (as *Surirella* spp.)

Municipality: Torres Novas (District: Santarém)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Surirella* sp.)

- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Subregion: Pinhal Interior Norte
 Municipality: Pedrógão Grande (District: Leiria)
 Site: Cabril Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Surirella* sp.)
- REGION: LISBOA
- Subregion: Grande Lisboa
- Municipality: Mafra (District: Lisboa)
 Site: Tapada de Mafra, Sobral da Abelheira
 Reference: Oliveira 1971b (as *Surirella* sp.)
- Municipality: Vila Franca de Xira (District: Lisboa)
 Site: Vila Franca de Xira, Tagus River (Tagus Basin)
 Reference: Rodrigues & Moita 1979b (as *Surirella* spp.)
- REGION: ALENTEJO
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Surirella* sp.)
- Municipality: Gavião (District: Portalegre)
 Site: Belver Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Municipality: Nisa (District: Portalegre)
 Site: Barca da Amieira, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Site: Fratel Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990 (as *Surirella* sp.)
- Subregion: Baixo Alentejo
- Municipality: Almodôvar (District: Beja)
 Site: Monte da Vinha, Guadiana River (Guadiana Basin)
 Reference: Andrade & Brito 1991 (as *Surirella* sp.)
- Subregion: Lezíria do Tejo
- Municipality: Chamusca (District: Santarém)
 Site: Chamusca, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Municipality: Santarém (District: Santarém)
 Site: Ómnias, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Surirella* spp.)
- Subregion: Not specified
 Municipality: Not specified

Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Surirella* sp.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa das Sete Cidades
Reference: Oliveira 1989 (as *Surirella* sp.)

***Synedra Ehrenberg 1830*, p. 60
[CAS ref. 001999]**

***Synedra affinis* var. *fasciculata* (Lyngbye) Grunow in Van Heurck
1885**, p. 153; pl. 41, fig. 15 (1881) [CAS ref. 001040]

Basionym: *Echinella fasciculata* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 295):

REGION: ALENTEJO
Subregion: Lezíria do Tejo
Municipality: Rio Maior (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Synedra affinis* var. *fasciculata* Grun., fossil)

***Synedra allorgei* Manguin 1942**, p. 124; pl. 1, fig. 6 a-c [CAS ref. 000623]

Distribution (Fig. 296):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
Reference: Bourrelly & Manguin 1946a (as *Synedra allorgei* Manguin)
Site: Lagoinha, Fajãzinha
Reference: Manguin 1942 (as *Synedra allorgei* Manguin)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not specified
References: Manguin 1942 (as *Synedra allorgei* Manguin); Bourrelly & Manguin 1946a (as *Synedra allorgei* Manguin)
Municipality: Not specified
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Synedra allorgei* Manguin)

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Synedra allorgei* Manguin)

***Synedra crystallina* (C. Agardh) Kützing 1844**, p. 69; pl. 16, fig. 1
[CAS ref. 000595]

Basionym: *Diatoma crystallinum* C. Agardh 1824 [CAS ref. 000102]

Distribution (Fig. 297):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not specified

Reference: Colmeiro 1889 (as *Synedra crystallina* Kg.)

***Synedra cunningtonii* G.S. West 1907**, p. 151; pl. 8, fig. 4 [CAS ref. 001558]

Distribution (Fig. 298):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Synedra cunningtoni* G.S. West.)

***Synedra familiaris* Kützing 1844**, p. 68; pl. 15, fig. 12 [CAS ref. 000595]

Nomenclatural synonym: *Synedra rumpens* var. *familiaris* (Kützing) Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 299):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra rumpens* var. *familiaris* Grun.)

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Synedra rumpens* var. *familiaris* Grun.)
Municipality: Porto (District: Porto)
Site: Not specified
Reference: Colmeiro 1889 (as *Synedra familiaris* Kg.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow) Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

References: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow); Gil et al. 1989-1990 (as *Synedra rumpens* v. *familiaris*)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra rumpens* Kütz. v. *familiaris* (Kütz.) Grunow)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Gil et al. 1991 (as *Synedra rumpens* v. *familiaris*)

***Synedra (rumpens* var.?) *familiaris* f. *parva* Grunow in Van Heurck 1881, pl. 40, fig. 15 [CAS ref. 001035]**

Distribution (Fig. 300):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Synedra (rumpens* var.?) *familiaris* Kuetz. fa. *parva*); Santos & Carvalho 2001 (as *Synedra (rumpens* var.?) *familiaris* Kuetz. fa. *parva*)

***Synedra gaillonii* (Bory) Ehrenberg 1830, p. 129 [CAS ref. 001999]**

Basionym: *Navicula gaillonii* Bory 1824 [CAS ref. 000147]

Distribution (Fig. 301):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Synedra gaillonii* (Bory) Ehr., fossil)

REGION: Not specified

Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: INAG I.P. 2008 (as *Synedra gaillonii* (Bory) Ehrenberg)

***Synedra gracilis* Kützing 1844**, p. 64; pl. 3/14, pl. 14/2 fig. b, pl. 15/8, fig. 1, 2, 5 [CAS ref. 000595]

Distribution (Fig. 302):

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Coimbra
Reference: De Toni 1887 (as *Synedra gracilis* Kützing)
Site: Not specified
Reference: Colmeiro 1889 (as *Synedra gracilis* Kg.)

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Ferruginous springs, Furnas
Reference: Chaves 1908 (as *Synedra gracilis* Ktz.)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Synedra gracilis* Ktz.)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Synedra gracilis* Kützing)

***Synedra parva* Kützing 1849**, p. 46 [CAS ref. 000596]

Distribution (Fig. 303):

REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Synedra parva* Ktz.)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Synedra parva* Kützing)

***Synedra pinnata* W. Smith 1853** [CAS ref. 000863]

Distribution (Fig. 304):

REGION: NORTE

Subregion: Grande Porto

Municipality: Porto (District: Porto)

Site: Not specified

Reference: Colmeiro 1889 (as *Synedra pinnata* W. Sm.)

***Synedra polymorpha* (Grunow & Pantocsek in Pantocsek) H.-J. Schrader 1969**, p. 21; pl. 8, fig. 3, 6, 13, 14, pl. 11, fig. 3b-f [CAS ref. 003203]

Basionym: *Clavicula polymorpha* Grunow & Pantocsek in Pantocsek 1886 [CAS ref. 000714]

Distribution (Fig. 305):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Alpiarça (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Clavicula polymorpha* Grun. et Pant., fossil)

***Synedra tabulata* var. *hybrida* (Grunow in Van Heurck) Cleve-Euler 1953**, p. 72; fig. 392 m [CAS ref. 001041]

Basionym: *Synedra affinis* var. *hybrida* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 306):

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra tabulata* v. *hybrida* (Grunow) Cleve)

***Synedra tenuis* Kützing 1844, p. 65; pl. 14, fig. 12 [CAS ref. 000595]**

Distribution (Fig. 307):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Synedra tenuis* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Synedra tenuis* Ktz., fossil)

***Synedra torta* [CAS ref. -]**

Distribution (Fig. 308):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra torta*)

***Synedra ulna* var. *bicurvata* (Biene ex Rabenhorst) Grunow in Van Heurck 1881, pl. 38, fig. 8 [CAS ref. 001035]**

Distribution (Fig. 309):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Vela

Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *bicurvata* (Biene) Grun.)

***Synedra ulna* var. *longissima* (W. Smith) Grunow 1862, p. 81 (395) [CAS ref. 000428]**

Basionym: *Synedra longissima* W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 310):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *longissima* W. Sm.); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch) Ehr. var. *longissima* W. Sm.)

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1906 (as *Synedra ulna* var. *longissima* (W. Sm.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Horta (Faial Island)

Site: Flamengos

Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr. var. *longissima* (W.Sm.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Synedra longissima* Sm.)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Levada do Bom Sucesso

Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr. var. *longissima*)

Municipality: Porto Santo (Porto Santo Island)

Site: Faial Stream

Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr. var. *longissima*)

***Synedra vitrea* Kützing 1844**, p. 66; pl. 14, fig. 17 [CAS ref. 000595]

Distribution (Fig. 311):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Synedra vitrea* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Synedra vitrea* Ktz., fossil)

***Synedra* sp.**

Distribution (Fig. 312):

REGION: NORTE

Subregion: Tâmega

Municipality: Marco de Canavezes (District: Porto)

Site: Torrão Reservoir, Tâmega River (Douro Basin)

Reference: Branco & Guimarães 1991 (as *Synedra* sp.)

Subregion: Not specified

Municipality: Not specified

Site: Ave Reservoirs, Ave River (Ave Basin)

References: Branco et al. 1991a (as *Synedra* sp.); Branco et al. 1991b (as *Synedra* sp.)

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Idanha-a-Nova (District: Castelo Branco)

Site: Idanha Reservoir, Ponsul River (Tagus Basin)

Reference: Oliveira 1982c (as *Synedra* sp.)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Pego, Tagus River (Tagus Basin)

Reference: Cerqueira da Silva 1989 (as *Synedra* sp.)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Andrade et al. 1988 (as *Synedra* sp.); Brito & Andrade 1992 (as *Synedra* spp.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra* spp.)

Subregion: Oeste

Municipality: Alenquer (District: Lisboa)

Site: Alenquer, Alenquer Reservoir

Reference: Frade 1941b (as *Synedra* sp.)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Synedra* spp.)

REGION: ALENTEJO

Subregion: Alto Alentejo

- Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra* spp.)
- Subregion: Baixo Alentejo
Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra* spp.)
- Subregion: Lezíria do Tejo
Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra* spp.)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra* spp.)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
References: Fernandes et al. 1987 (as *Synedra* spp.); Brito & Andrade 1992 (as *Synedra* spp.)
- Subregion: Not specified
Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
References: Andrade & Brito 1991 (as *Synedra* spp.); Andrade & Brito 1991 (as *Synedra* spp.)
- REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Reservoirs in the North and Centre of Portugal
Reference: Cabecinha et al. 2009 (as *Synedra* spp.)

***Tabellaria Ehrenberg ex Kützing 1844*, p. 127
[CAS ref. 000595]**

***Tabellaria fenestrata* (Lyngbye) Kützing 1844**, p. 127; pl. 17, fig. 22, pl. 18, fig. 2 [CAS ref. 000595]

Basionym: *Diatoma fenestratum* Lyngbye 1819 [CAS ref. 000620]

Distribution (Fig. 313):

REGION: NORTE
Subregion: Alto Trás-os-Montes
Municipality: Montalegre (District: Vila Real)

- Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)
References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)
- Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)
References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)
- Subregion: Ave
- Municipality: Fafe (District: Braga)
Site: Travassós, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Tabellaria fenestrata*)
- Municipality: Vieira do Minho (District: Braga)
Site: Salamonde Reservoir, Cávado River (Cávado Basin)
References: Oliveira 1982a (as *Tabellaria fenestrata*); Oliveira et al. 1985 (as *Tabellaria fenestrata*)
- Municipality: Vila Nova de Famalicão (District: Braga)
Site: Ave River (Ave Basin)
Reference: Zimmermann 1909b (as *Tabellaria fenestrata* (Lyngb.) Kuetz.)
- Subregion: Cávado
- Municipality: Barcelos (District: Braga)
Site: Barcelos, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Site: Manhente, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Municipality: Braga (District: Braga)
Site: Padim da Graça, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Municipality: Esposende (District: Braga)
Site: Marachão, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Municipality: Not specified
Site: Entrepontes, Cávado River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Site: Homem River (Cávado Basin)
Reference: Cerqueira da Silva 1992 (as *Tabellaria fenestrata*)
- Subregion: Douro
- Municipality: Armamar (District: Viseu)
Site: Queimadela, Vizela River (Ave Basin)
Reference: Fidalgo 1990 (as *Tabellaria fenestrata*)
- Subregion: Entre Douro e Vouga
- Municipality: Vale de Cambra (District: Aveiro)
Site: Vale de Cambra, Caima River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- Subregion: Grande Porto
- Municipality: Maia (District: Porto)
Site: Parada

- Reference: Silva 1950b (as *Tabellaria fenestrata* (Lyngb.) Kütz.)
Municipality: Vila Nova de Gaia (District: Porto)
Site: Febros River (Douro Basin)
Reference: Cerqueira da Silva 1993 (as *Tabellaria fenestrata*)
- Subregion: Minho-Lima
Municipality: Caminha (District: Viana do Castelo)
Site: Gondar Stream (Âncora Basin)
Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)
Site: Tourim, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)
- Municipality: Melgaço (District: Viana do Castelo)
Site: São Gregório, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)
- Municipality: Monção (District: Viana do Castelo)
Site: Monção, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)
- Municipality: Valença (District: Viana do Castelo)
Site: Valença, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
Site: São Lourenço da Montaria, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Tabellaria fenestrata*)
- Municipality: Not specified
Site: Ínsua do Ranhão, Minho River (Minho Basin)
Reference: Vasconcelos et al. 2000 (as *Tabellaria fenestrata*)
Site: Lima River (Lima Basin)
Reference: Cerqueira da Silva 1990 (as *Tabellaria fenestrata*)
Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Tabellaria fenestrata*)
- Subregion: Not specified
Municipality: Not specified
Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al., 1991a (as *Tabellaria fenestrata*); Branco et al. 1991b (as *Tabellaria fenestrata*)
Site: Ave River (Ave Basin)
Reference: Cerqueira da Silva 1991 (as *Tabellaria fenestrata*)
- REGION: CENTRO
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing); Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Aldeia, Segadães, Vouga River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Avelal de Baixo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Bolfiar, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Murta, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Tabellaria fenestrata*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Raivo, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Redonda, Águeda River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Pano, Largo River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing); Gil et al. 1989-1990 (as *Tabellaria fenestrata*)
 Site: Vagueira, Canal de Mira
- Reference: Mendes et al. 2009 (as *Tabellaria fenestrata*)
 Site: Vessada, Fontão Creek (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
 Municipality: Estarreja (District: Aveiro)
 Site: Minhoteira, Antuã River (Vouga Basin)
- Reference: Almeida 1998 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Tabellaria fenestrata*); Almeida 1998
 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Mondego River (Mondego Basin)
 Reference: Carvalho 1913 (as *Tabellaria fenestrata* (Lyngb.) Kuetz.)
- Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)
- Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Destriz, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: São João do Monte, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
- Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
- Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
 Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria fenestrata* (Lyngb.) Kützing)
- Subregion: Médio Tejo
 Municipality: Tomar (District: Santarém)
 Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
 Reference: Cabeçadas et al. 1980 (as *Tabellaria fenestrata*)
- Municipality: Vila Nova da Barquinha (District: Santarém)
 Site: Almourol, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)
- Subregion: Pinhal Interior Norte
 Municipality: Arganil (District: Coimbra)
 Site: Fronhas Reservoir, Alva River (Mondego Basin)
 Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye)
 Kützing)
- Municipality: Pampilhosa da Serra (District: Coimbra)
 Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

- Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
- Municipality: Pedrógão Grande (District: Leiria)
Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
- Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Tabellaria fenestrata*)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Lagoacho Reservoir
Reference: Santos et al. 2002 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- Subregion: Not specified
Municipality: Not specified
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Tabellaria fenestrata*); Cerqueira da Silva et al. 1993 (as *Tabellaria fenestrata*); Cerqueira da Silva 1994 (as *Tabellaria fenestrata*)
Site: Not specified
References: Reference: Calado 1990 (as *Tabellaria fenestrata* (Lyngbye) Kützing); Gil et al. 1991 (as *Tabellaria fenestrata*); Almeida & Gil 2001 (as *Tabellaria fenestrata* (Lyngbye) Kützing)
- REGION: ALENTEJO
- Subregion: Alentejo Litoral
Municipality: Odemira (District: Beja)
Site: Santa Clara Reservoir, Mira River (Mira Basin)
Reference: Oliveira 1987 (as *Tabellaria fenestrata* (Lyng.) Kz.)
- Subregion: Alto Alentejo
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Tabellaria fenestrata* (Lyngb.)Kg.)
- Municipality: Marvão (District: Portalegre)
Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Tabellaria fenestrata*)
- Municipality: Ponte de Sôr (District: Portalegre)
Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Tabellaria fenestrata*)
- Subregion: Lezíria do Tejo
Municipality: Alpiarça (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Tabellaria fenestrata* (Lyngb.) Kütz., fossil)
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Tabellaria fenestrata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

Reference: Trelease 1897 (as *Tabellaria fenestrata* Kütz.)

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);

Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.)

Site: Lagoa das Sete Cidades

References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);

Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.); Oliveira 1989 (as *Tabellaria fenestrata*)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);

Chaves 1908 (as *Tabellaria fenestrata*); Manguin 1942 (as *Tabellaria fenestrata* (Lyngb.) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria fenestrata* (Lyngb.) Kütz.)

Site: Pico da Vara

Reference: Mölder 1947 (as *Tabellaria fenestrata* (Lyngb.) Kütz.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Tabellaria fenestrata*, fossil)

Municipality: Not specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Tabellaria fenestrata* (Lyngb.) Kütz.);

Bourrelly & Manguin 1946a (as *Tabellaria fenestrata* (Lyngb.) Kütz.)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tabellaria fenestrata* (Kützing) Aboal)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Tabellaria fenestrata* (Kützing) Aboal)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Tabellaria fenestrata*)

Site: Not specified

Reference: INAG I.P. 2008 (as *Tabellaria fenestrata* (Lyngbye) Kützing)

***Tabellaria fenestrata f. intermedia* (Grunow) Skabichevskii 1960**, p. 294-295; text fig. 110

Basionym: *Tabellaria fenestrata* var. *intermedia* Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 314):

REGION: CENTRO

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: Covão do Vidoal Reservoir (Mondego Basin)

References: Nauwerck 1962 (as *Tabellaria fenestrata* fa. *intermedia* Grunow); Santos & Carvalho 2001 (as *Tabellaria fenestrata* fa. *intermedia* Grun.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Tabellaria fenestrata* fa. *intermedia* Grunow)

***Tabellaria flocculosa* (Roth) Kützing 1844**, p. 127; pl. 17, fig. 21 [CAS ref. 000595]

Basionym: *Conferva flocculosa* Roth 1797 [CAS ref. 000798]

Distribution (Fig. 315):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira 1985 (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Guilhofrei Reservoir, Ave River (Ave Basin)

Reference: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) K.g.)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1982a (as *Tabellaria flocculosa*); Oliveira 1985 (as *Tabellaria flocculosa*); Oliveira et al. 1985 (as *Tabellaria flocculosa*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) K.g.)

Municipality: Not specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Tabellaria flocculosa*)

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Tabellaria flocculosa* (Roth) Kützing)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)

Subregion: Grande Porto

Municipality: Maia (District: Porto)

Site: Parada

Reference: Silva 1950b (as *Tabellaria flocculosa* (Roth) Kütz.)

Subregion: Minho-Lima

Municipality: Caminha (District: Viana do Castelo)

Site: Sains, Âncora River (Âncora Basin)

Reference: Formigo et al. 1993 (as *Tabellaria flocculosa*)

Municipality: Melgaço (District: Viana do Castelo)

Site: São Gregório, Minho River (Minho Basin)

Reference: Vasconcelos et al. 2000 (as *Tabellaria flocculosa*)

Municipality: Paredes de Coura (District: Viana do Castelo)

Site: Insalde

Reference: Zimmermann 1914 (as *Tabellaria flocculosa* (Roth) Kuetz.)

Municipality: Viana do Castelo (District: Viana do Castelo)

- Site: Alhada, Âncora River (Âncora Basin)
Reference: Formigo et al. 1993 (as *Tabellaria flocculosa*)
- Municipality: Not specified
- Site: Lima River (Lima Basin)
Reference: Cerqueira da Silva 1990 (as *Tabellaria flocculosa*)
- Site: Minho River, international section (Minho Basin)
Reference: Vasconcelos & Cerqueira 2001 (as *Tabellaria flocculosa*)
- Subregion: Not specified
- Municipality: Not specified
- Site: Ave Reservoirs, Ave River (Ave Basin)
References: Branco et al. 1991a (as *Tabellaria flocculosa*); Branco et al. 1991b (as *Tabellaria flocculosa*)
- Site: Serra do Gerês
Reference: Silva 1950a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Not specified
Reference: Cabeçadas & Brogueira 1987 (as *Tabellaria flocculosa*)
- REGION: CENTRO
- Subregion: Baixo Mondego
- Municipality: Arganil (District: Coimbra)
Site: Fronhas Reservoir, Alva River (Mondego Basin)
Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Coimbra (District: Coimbra)
Site: Mondego River (Mondego Basin)
Reference: Zimmermann 1906 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Municipality: Penacova (District: Coimbra)
Site: Aguieira Reservoir, Mondego River (Mondego Basin)
Reference: Oliveira & Monteiro 1992 (as *Tabellaria flocculosa*)
- Subregion: Baixo Vouga
- Municipality: Águeda (District: Aveiro)
- Site: Agadão, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Águeda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*); Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Bolfiar, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Redonda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
 Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Espairo, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: Mogofores, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Site: São João da Azenha, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
 Municipality: Aveiro (District: Aveiro)
 Site: Eixo, Horta Stream (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)

- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Estarreja (District: Aveiro)
 Site: Estarreja, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Minhoteira, Antuã River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Tabellaria flocculosa*); Almeida 1998 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Tabellaria flocculosa*)
- Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Tabellaria flocculosa* (Roth) Kützing)
- Subregion: Beira Interior Norte
 Municipality: Guarda (District: Guarda)
 Site: Alfarazes
 Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Cubo
 Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Gonçalo
 Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Guarda
 Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Meios
 References: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Mondego River (Mondego Basin)
 References: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Nueme
 Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Site: Vila Patrício

- Reference: Carvalho 1913 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Subregion: Beira Interior Sul
- Municipality: Castelo Branco (District: Castelo Branco)
- Site: São Fiel, Ocreza River (Tagus Basin)
- Reference: Zimmermann 1906 (as *Tabellaria flocculosa* (Roth) Kuetz.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
- Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
- Reference: Fernandes et al. 1987 (as *Tabellaria flocculosa*)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: São João do Monte, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Varzielas, Águeda River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Municipality: Tondela (District: Viseu)
- Site: Boi, Agadão River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: In the proximity of Tondela, Criz River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Vouzela (District: Viseu)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Site: Cambra, Alfusqueiro River (Vouga Basin)
- Reference: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
- References: Gil 1988 (as *Tabellaria flocculosa* (Roth) Kützing); Gil et al. 1989-1990 (as *Tabellaria flocculosa*)
- Subregion: Médio Tejo
- Municipality: Tomar (District: Santarém)
- Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
- Reference: Frade 1961 (as *Tabellaria flocculosa* (Roth))
- Municipality: Torres Novas (District: Santarém)
- Site: Almonda River (Tagus Basin)
- Reference: Oliveira & Caldas 1970 (as *Tabellaria flocculosa* (Roth) Kg.)
- Subregion: Pinhal Interior Norte
- Municipality: Pampilhosa da Serra (District: Coimbra)
- Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)
- Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)
- Reference: Oliveira 1982b (as *Tabellaria flocculosa*)

- Municipality: Pedrógão Grande (District: Leiria)
 Site: Bouçã Reservoir, Zêzere River (Tagus Basin)
 Reference: Oliveira 1982b (as *Tabellaria flocculosa*)
- Subregion: Serra da Estrela
 Municipality: Seia (District: Guarda)
 Site: Covão do Curral Reservoir
 Reference: Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth) Kuetz.)
 Site: Covão do Vidoal Reservoir (Mondego Basin)
 References: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth) Kuetz.)
 Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
 References: Nauwerck 1962 (as *Tabellaria flocculosa* (Roth) Kg.); Santos & Carvalho 2001 (as *Tabellaria flocculosa* (Roth) Kuetz.); Vasconcelos et al. 2001 (as *Tabellaria flocculosa*); MAOT 2002 (as *Tabellaria flocculosa*)
 Site: Pond near Lagoa Comprida
 Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: Sabugueiro, Lagoacho Reservoir
 Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
 Site: São Romão, Lagoa do Covão do Curral
 Reference: Santos et al. 2002 (as *Tabellaria flocculosa* (Roth) Kützing)
- Subregion: Not specified
 Municipality: Not specified
 Site: Paiva River (Douro Basin)
 References: Cerqueira da Silva 1991 (as *Tabellaria flocculosa*); Cerqueira da Silva et al. 1993 (as *Tabellaria flocculosa*); Cerqueira da Silva 1994 (as *Tabellaria flocculosa*)
 Site: Not specified
 References: Calado 1990 (as *Tabellaria flocculosa* (Roth) Kütz.); Gil et al. 1991 (as *Tabellaria flocculosa*); Almeida & Gil 2001 (as *Tabellaria flocculosa* (Roth) Kützing)

REGION: ALENTEJO

- Subregion: Alentejo Litoral
 Municipality: Odemira (District: Beja)
 Site: Santa Clara Reservoir, Mira River (Mira Basin)
 Reference: Oliveira 1987 (as *Tabellaria flocculosa* (Roth) Kz.)
- Subregion: Alto Alentejo
 Municipality: Avis (District: Portalegre)
 Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
 Reference: Oliveira 1984c (as *Tabellaria flocculosa*)
 Municipality: Ponte de Sôr (District: Portalegre)
 Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
 Reference: Coutinho 1990 (as *Tabellaria flocculosa*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Angra do Heroísmo (Terceira Island)
Site: Lagoa da Falca (Terceira Island)
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Lagoa da Joanhina
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Not specified
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Ribeira de São João
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Corvo (Corvo Island)
Site: Caldeira
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Horta (Faial Island)
Site: Not specified
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Lajes das Flores (Flores Island)
Site: Lagoa Rasa
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.);
Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Lajes do Pico (Pico Island)
Site: Lagoa do Caiado
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Nordeste (São Miguel Island)
Site: Serra Tronqueira
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.);
Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Krieger 1931 (as *Tabellaria flocculosa* Kütz.)
Site: Lagoa Grande
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Lagoa das Sete Cidades
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Pico do Carvão
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Pico da Cruz
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Povoação (São Miguel Island)
Site: Furnas
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.)
Site: Lagoa das Furnas

- References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.); Gonçalves 1997 (as *Tabellaria flocculosa*)
- Site: Pico do Gafanhoto
Reference: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Pico da Vara
References: Holmboe 1901 (as *Tabellaria flocculosa* (Roth) Kütz.); Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Pico Verde
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Praia da Vitória (Terceira Island)
Site: Lagoa do Boi
Reference: Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
- Site: Lagoa do Negro
References: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.); Gonçalves 1996 (as *Tabellaria flocculosa* (Roth) Kützing)
- Municipality: Santa Cruz das Flores (Flores Island)
Site: Lagoa Branca
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.); Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Lagoa Comprida
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Not specified
Reference: Mölder 1947 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.);
- Site: Lagoa do Fogo (São Miguel Island)
Reference: Cedercreutz 1941 (as *Tabellaria flocculosa*)
- Municipality: Not specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Tabellaria flocculosa* (Roth) Kütz.); Bourrelly & Manguin 1946a (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Pico Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: São Jorge Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Terceira Island
Reference: Johansson 1977 (as *Tabellaria flocculosa* (Roth) Kütz.)
- Site: Not specified

Reference: Gonçalves 2008 (as *Tabellaria flocculosa* (Roth) Kützing)
Municipality: Not specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Pico Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: São Jorge Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Tabellaria flocculosa* (Roth) Kützing)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Mountain Rivers in the North

Reference: Morais et al. 2009 (as *Tabellaria flocculosa* (Roth) Kützing)

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Tabellaria flocculosa*)

Site: Not specified

Reference: INAG I.P. 2008 (as *Tabellaria flocculosa* (Roth) Kützing)

***Tabellaria ventricosa* Kützing 1844**, p. 127; pl. 30, fig. 74 [CAS ref. 000595]

Nomenclatural synonym: *Tabellaria flocculosa* var. *ventricosa* (Kützing) Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 316):

REGION: NORTE

Subregion: Not specified

Municipality: Not specified

Site: Serra do Gerês

Reference: Zimmermann 1909b (as *Tabellaria flocculosa* (Roth) Kuetz. var. *ventricosa* (Kuetz.) Grun.); Sampaio 1950 (as *Tabellaria flocculosa* (Roth) Kütz. var. *ventricosa* (Kütz.) Grun.)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Tabellaria ventricosa* Kützing)

Municipality: Sever do Vouga (District: Aveiro)

Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)

Reference: Nunes 2007 (as *Tabellaria ventricosa* Kützing)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tabellaria ventricosa* Kützing)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Tabellaria ventricosa* Kützing)

***Tabellaria* sp.**

Distribution (Fig. 317):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Bragança (District: Bragança)

Site: São Serrada Reservoir, Andorinhas Stream (Douro Basin)

Reference: Geraldès & Boavida 2005 (as *Tabellaria* sp.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Tabellaria* spp.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Tabellaria* sp.)

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Tabellaria* sp. ind., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Tabellaria* sp. ind., fossil)

***Tabularia* (Kützing) D.M. Williams & Round 1986,**
p. 320 [CAS ref. 003154]

***Tabularia affinis* (Kützing) Snoeijs 1992**, p. 343; fig. 49-71 [CAS
ref. 008828]

Basionym: *Synedra affinis* Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 318):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1909b (as *Synedra affinis* Kütz.)

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Synedra affinis*)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Not specified

Reference: Zimmermann 1909b (as *Synedra affinis* Kütz.)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Synedra affinis* Kütz., fossil)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Synedra affinis* Ktz.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tabularia affinis* (Kützing) Snoeijs)

***Tabularia fasciculata* (C. Agardh) D.M. Williams & Round 1986,**
p. 326; fig. 46-52 [CAS ref. 003154]

Basionym: *Diatoma fasciculata* C. Agardh 1812 [CAS ref. 001941]

Nomenclatural synonym: *Fragilaria fasciculata* (C. Agardh) Lange-Bertalot
1980b [CAS ref. 008465]

Distribution (Fig. 319):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Site: Perrães, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

Subregion: Serra da Estrela

Municipality: Seia (District: Guarda)

Site: São Romão, Lagoa do Covão do Curral

Reference: Santos et al. 2002 (as *Fragilaria fasciculata* (Agardh) Lange-Bertalot)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Forte, Água Forte Stream (Sado Basin)

Reference: Luis et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)

Site: Porto de Beja, Água Forte Stream (Sado Basin)

Reference: Luis et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)

Site: Porto Ferreira, Roxo Stream (Sado Basin)

Reference: Luis et al. 2009 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria fasciculata* (C.A. Agardh) Lange-Bertalot sensu lato)

***Tabularia tabulata* (C. Agardh) Snoeijis 1992**, p. 343; fig. 38-48
[CAS ref. 008828]

Basionym: *Diatoma tabulatum* C. Agardh 1832 [CAS ref. 000940]

Nomenclatural synonym: *Synedra tabulata* (C. Agardh) Kützing 1844 [CAS ref. 000595]

Distribution (Fig. 320):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra tabulata* Agardh)

- Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: São João da Azenha, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Synedra tabulata* Agardh)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
- Site: Perrães, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra tabulata*)
Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra tabulata* (Agardh) Kützing)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra tabulata* Agardh)
Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Calado 1990 (as *Synedra tabulata* Agardh)
- REGION: AUTONOMOUS REGION OF AZORES
Municipality: Povoação (São Miguel Island)
Site: Pico da Vara
References: Manguin 1942 (as *Synedra tabulata* (Ag.) Kütz.); Bourrelly & Manguin 1946a (as *Synedra tabulata* (Ag.) Kütz.)
Municipality: Not specified
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Tabularia tabulata* (Agardh) Snoeijs)

***Tetracyclus Ralfs 1843b*, p. 105**
[CAS ref. 001842]

***Tetracyclus braunii* Grunow 1862**, p. 98 (412); pl. 4/7, fig. 37 [CAS ref. 000428]

Distribution (Fig. 321):

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Ribeira de João Gomes

Reference: Schodduyn 1927 (as *Tetracyclus braunii* Grun.)

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Schodduyn 1927 (as *Tetracyclus braunii* Grun.)

***Thalassiosira* Cleve 1873, p. 6
[CAS ref. 000220]**

***Thalassiosira decipiens* (Grunow in Van Heurck) E.G. Jørgensen
1905, p. 96; pl. 6, fig. 3 [CAS ref. 000546]**

Basionym: *Coscinodiscus excentricus* var. *decipiens* Grunow 1878 [CAS ref. 000439]

Distribution (Fig. 322):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Thalassiosira decipiens*)

***Thalassiosira fallax* Meunier 1910, p. 268; pl. 30, fig. 1-4 [CAS ref. 000658]**

Distribution (Fig. 323):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Thalassiosira fallax* (?))

***Thalassiosira fluviatilis* Hustedt 1926**, p. 565; fig. 1-4 [CAS ref. 001279]

Synonym: *Thalassiosira weissflogii* (Grunow) G.A. Fryxell & Hasle 1977 [CAS ref. 013580], according to Krammer & Lange-Bertalot 1991a, p. 79

Distribution (Fig. 324):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Thalassiosira fluviatilis* Hust., fossil)

***Thalassiosira lacustris* (Grunow) Hasle in Hasle & Fryxell 1977**, p. 40 [CAS ref. 008326]

Basionym: *Coscinodiscus lacustris* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 325):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Vila Velha de Ródão (District: Castelo Branco)

Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)

Site: Fratel, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Coscinodiscus lacustris*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Coscinodiscus lacustris*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Coscinodiscus lacustris*)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Cabeçadas et al. 1980 (as *Coscinodiscus lacustris*)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)

Site: Vila Nova da Barquinha, Tagus River (Tagus Basin)

Reference: Oliveira et al. 1989 (as *Coscinodiscus lacustris*)

Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Calado 1990 (as *Coscinodiscus lacustris* Grunow)

REGION: LISBOA

Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
References: Rodrigues & Moita 1979a (as *Coscinodiscus lacustris*);
Rodrigues & Moita 1979b (as *Coscinodiscus lacustris*); Fernandes et al.
1987 (as *Coscinodiscus lacustris*)

REGION: ALENTEJO

Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984b (as *Coscinodiscus lacustris*)
Municipality: Évora (District: Évora)
Site: Monte Novo Reservoir, Degebe River (Gadiana Basin)
Reference: Oliveira & Monteiro 1995 (as *Coscinodiscus lacustris*);
Oliveira 1996 (as *Coscinodiscus lacustris*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)
Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Ferreira 1986 (as *Coscinodiscus lacustris*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Coscinodiscus lacustris*)
Municipality: Gavião (District: Portalegre)
Site: Belver Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Coscinodiscus lacustris* Grun.); Fernandes et al.
1987 (as *Coscinodiscus lacustris*)

Municipality: Nisa (District: Portalegre)
Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Site: Fratel Reservoir, Tagus River (Tagus Basin)
Reference: INIP 1977 (as *Coscinodiscus lacustris* Grun.); Fernandes et al.
1987 (as *Coscinodiscus lacustris*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*); Oliveira et
al. 1989 (as *Coscinodiscus lacustris*)
Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Municipality: Rio Maior (District: Santarém)
Site: Not specified
Reference: Silva 1946b (as *Coscinodiscus lacustris* Grun., fossil)
Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Coscinodiscus lacustris*)
Subregion: Not specified
Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Coscinodiscus lacustris*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Coscinodiscus lacustris*)

***Thalassiosira nana* Lohmann 1908**, p. 242; pl. 17, fig. 2 [CAS ref. 002761]

Distribution (Fig. 326):

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Thalassiosira nana*)

***Thalassiosira pseudonana* Hasle & Heimdal 1970**, p. 565; pl. 5, fig. 27-33, pl. 6, fig. 34-38 [CAS ref. 006546]

Distribution (Fig. 327):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Thalassiosira pseudonana* Hasle & Heimdal)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Thalassiosira pseudonana* Hasle & Heimdal)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida & Gil 2001 (as *Thalassiosira pseudonana* Hasle & Heimdal)

***Thalassiosira visurgis* Hustedt 1957**, p. 207; pl. 1, fig. 1-4 [CAS ref. 000532]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Thalassiosira visurgis* Hustedt)

***Thalassiosira* sp.**

Distribution (Fig. 328):

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Rodrigues & Moita 1979b (as *Thalassiosira* spp.)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Thalassiosira* sp. (?))

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Thalassiosira* sp.)

***Tryblionella* W. Smith 1853**, p. 35
[CAS ref. 000863]

***Tryblionella angustata* W. Smith 1853**, p. 36; pl. 30, fig. 262 [CAS ref. 000863]

Nomenclatural synonym: *Nitzschia angustata* (W. Smith) Grunow 1880 [CAS ref. 009613]

Distribution (Fig. 329):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Chaves 1908 (as *Tryblionella angustata* Sm.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tryblionella angustata* W. Smith)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)

Site: Funchal

Reference: Tempère & Peragallo 1907-1915 (as *Nitzschia angustata* Grun.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Nitzschia angustata* Grunow)

***Tryblionella apiculata* W. Gregory 1857**, p. 79; pl. 1, fig. 43 [CAS ref. 002719]

Nomenclatural synonym: *Nitzschia apiculata* (W. Gregory) Grunow in Schneider 1878 [CAS ref. 000439]

Distribution (Fig. 330):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Murta, Cértima River (Vouga Basin)

- Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Municipality: Anadia (District: Aveiro)
Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Municipality: Aveiro (District: Aveiro)
Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)
Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia apiculata*)
Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)
Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia apiculata* (Greg.) Grunow)
- REGION: ALENTEJO
Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
Reference: Oliveira 1984a (as *Nitzschia apiculata*)
Subregion: Alto Alentejo
Municipality: Avis (District: Portalegre)
Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Nitzschia apiculata*)
Subregion: Baixo Alentejo
Municipality: Aljustrel (District: Beja)
Site: Roxo Reservoir, Roxo Stream (Sado Basin)
Reference: Oliveira 1984a (as *Nitzschia apiculata*)
Subregion: Not specified
Municipality: Not specified
Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia apiculata*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Nitzschia apiculata* (Greg.) Grun.);

Bourrelly & Manguin 1946a (as *Nitzschia apiculata* (Greg.) Grun.)

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Tryblionella apiculata* Gregory)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Porto Santo (Porto Santo Island)

Site: Ponte do Espírito Santo

Reference: Zimmermann 1910-1911 (as *Nitzschia apiculata* (Greg.) Grun.)

Site: Serra de Dentro Stream

Reference: Zimmermann 1910-1911 (as *Nitzschia apiculata* (Greg.) Grun.)

***Tryblionella calida* (Grunow in Cleve & Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia calida* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 331):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

Municipality: Águeda (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia calida* Grunow)

***Tryblionella compressa* (J.W. Bailey) Poulin in Poulin et al. 1990, p. 96; fig. 98 [CAS ref. 008670]**

Basionym: *Pyxidicula compressa* J.W. Bailey 1851 [CAS ref. 000119]

Nomenclatural synonym: *Nitzschia compressa* (J.W. Bailey) C.S. Boyer 1916 [CAS ref. 000152]

Distribution:

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Nitzschia compressa* (Bailey) Boyer)

***Tryblionella debilis* Arnott ex O'Meara 1873**, p. 310 [CAS ref. 002531]

Nomenclatural synonyms: *Nitzschia debilis* (Arnott) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nitzschia tryblionella var. *debilis* (Arnott) Hustedt 1913 [CAS ref. 002459]

Distribution (Fig. 332):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia tryblionella* v. *debilis*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia tryblionella* v. *debilis*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)

Municipality: Aveiro (District: Aveiro)

Site: Aveiro, lake in the municipal park (artificial substrate)

Reference: Gil & Almeida 1993 (as *Nitzschia tryblionella* v. *debilis*)

Site: Eixo, Horta Stream (Vouga Basin)

- Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Pano, Largo River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Requeixo, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *debilis*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia debilis* (Arnott) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 References: Manguin 1942 (as *Nitzschia tryblionella* v. *debilis*); Bourrelly & Manguin 1946a (as *Nitzschia tryblionella* v. *debilis*)
 Site: Lagoinha, Fajãzinha
 Reference: Bourrelly & Manguin 1946a (as *Nitzschia tryblionella* v. *debilis*)
 Municipality: Povoação (São Miguel Island)
 Site: Pico da Vara
 References: Manguin 1942 (as *Nitzschia tryblionella* v. *debilis*); Bourrelly & Manguin 1946a (as *Nitzschia tryblionella* v. *debilis*)
 Municipality: Santa Cruz das Flores (Flores Island)
 Site: Lagoa Comprida

Reference: Manguin 1942 (as *Nitzschia tryblionella* v. *debilis*)
Municipality: Santa Cruz da Graciosa (Graciosa Island)
Site: Barreiro
Reference: Azevedo et al. 2005 (as *Nitzschia debilis*)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not specified
References: Manguin 1942 (as *Nitzschia tryblionella* v. *debilis*); Bourrelly & Manguin 1946a (as *Nitzschia tryblionella* v. *debilis*)
Municipality: Not specified
Site: Graciosa Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Nitzschia debilis* (Arnott) Grunow)
Site: Not specified
Reference: Gonçalves 2008 (as *Nitzschia debilis* (Arnott) Grunow)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Nitzschia debilis* (Arnott) Grunow in Cl. & Grunow)

***Tryblionella granulata* (Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia granulata* Grunow 1880 [CAS ref. 009613]

Distribution (Fig. 333):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia granulata* Grunow)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia granulata* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia granulata*)

***Tryblionella hungarica* (Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia hungarica* Grunow 1862 [CAS ref. 000428]

Distribution (Fig. 334):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Nitzschia hungarica* Grunow)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia hungarica* Grunow)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Site: São João da Azenha, Cértima River (Vouga Basin)

References: Rino & Gil 1989 (as *Nitzschia hungarica*); Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

- Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
 Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
 Site: Vessada, Fontão Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Municipality: Mealhada (District: Aveiro)
 Site: Pampilhosa, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
 Site: Viadouros, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
 Municipality: Oliveira do Bairro (District: Aveiro)
 Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
 Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Site: Perrães, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Site: Perrães, Cértima River (Vouga Basin)
 References: Rino & Gil 1989 (as *Nitzschia hungarica*); Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Site: Repolão, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Nitzschia hungarica*)
 Site: Vila Verde, Levira River (Vouga Basin)
 Reference: Almeida 1998 (as *Nitzschia hungarica* Grunow)
 Municipality: Not specified
 Site: Pateira de Fermentelos (District: Aveiro)
 Reference: Calado 1991 (as *Nitzschia hungarica* Grunow)
 Subregion: Beira Interior Sul
 Municipality: Vila Velha de Ródão (District: Castelo Branco)
 Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
 Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)
 Subregion: Dão-Lafões
 Municipality: Oliveira de Frades (District: Viseu)
 Site: Varzielas, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
 Municipality: Tondela (District: Viseu)
 Site: Boi, Agadão River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
 Municipality: Vouzela (District: Viseu)
 Site: Cambra, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Nitzschia hungarica* Grunow)
 Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

Subregion: Not specified

Municipality: Not specified

Site: Vouga Basin

Reference: Almeida & Gil 2000 (as *Nitzschia hungarica* Grunow)

Site: Not specified

Reference: Almeida & Gil 2001 (as *Nitzschia hungarica* Grunow)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Vila Franca de Xira (District: Lisboa)

Site: Vila Franca de Xira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Água Azeda, Água Azeda Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia hungarica* Grunow)

Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia hungarica* Grunow)

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Nitzschia hungarica*)

Subregion: Lezíria do Tejo

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Nitzschia hungarica*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Nitzschia hungarica* Grun.); Bourrelly & Manguin 1946a (as *Nitzschia hungarica* Grun.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Krammer & Lange-Bertalot 1988 (as *Nitzschia hungarica* Grunow)

***Tryblionella kuetzingii* Álvarez-Blanco & S. Blanco 2014**, p. 37, pl. 42, fig. 6-8 [CAS ref. -]

Basionym: *Synedra constricta* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Nitzschia constricta* (Kützing) Ralfs in Pritchard 1861 [CAS ref. 001063]

Tryblionella constricta (Kützing) Poulin in Poulin et al. 1990, comb. illeg. [CAS ref. 008670]

Distribution (Fig. 335):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Dão-Lafões

Municipality: Tondela (District: Viseu)

Site: In the proximity of Tondela, Criz River (Mondego Basin)

Reference: Santos et al. 2002 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia constricta* (?))

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: Almeida 1998 (as *Nitzschia constricta* (Kützing) Ralfs)

REGION: ALENTEJO

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Ponte do Curval, Água Forte Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Nitzschia constricta* (Kützing) Ralfs)

Subregion: Lezíria do Tejo

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

Reference: Brito & Andrade 1992 (as *Nitzschia constricta* (?))

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Santa Maria Island

Reference: Gonçalves et al. 2010 (as *Nitzschia constricta* (Kützing) Ralfs)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Nitzschia constricta* (Kützing) Ralfs)

***Tryblionella levidensis* W. Smith 1856, p. 89 [CAS ref. 001007]**

Nomenclatural synonyms: *Nitzschia tryblionella* var. *levidensis* (W. Smith) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Nitzschia levidensis (W. Smith) Grunow in Van Heurck 1881 [CAS ref. 001035]

Distribution (Fig. 336):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia levidensis* (W. Smith) Grunow); Santos et al. 2002 (as *Nitzschia tryblionella* var. *levidensis* (W. Smith) Grunow)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Nitzschia levidensis* (W. Smith) Grunow)

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: São João de Azenha, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)

Municipality: Aveiro (District: Aveiro)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Site: Vessada, Fontão Creek (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)

Municipality: Mealhada (District: Aveiro)

Site: Pampilhosa, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)

Municipality: Oliveira do Bairro (District: Aveiro)

Site: Perrães, Levira River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)
Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*);
Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow)
Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *levidensis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Vila do Porto (Santa Maria Island)

Site: Not specified

References: Manguin 1942 (as *Nitzschia tryblionella* Hantz. var. *levidensis* (W. Sm.) Grun.); Bourrelly & Manguin 1946a (as *Nitzschia tryblionella* Hantz. var. *levidensis* (W. Sm.) Grun.)

Municipality: Not specified

Site: Graciosa Island

Reference: Gonçalves et al. 2010 (as *Tryblionella levidensis* W.M. Smith)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Nitzschia levidensis* (W. Smith) Grunow in Van Heurck)

***Tryblionella littoralis* (Grunow in Cleve & Grunow) D.G. Mann in Round, Crawford & Mann 1990, p. 678 [CAS ref. 003245]**

Basionym: *Nitzschia littoralis* Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution:

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: Not specified

Reference: Gonçalves et al. 2010 (as *Tryblionella littoralis* (Grunow in Cl. & Grun.) D.G. Mann, fossil)

***Tryblionella marginata* W. Smith 1853, p. 35; pl. 10, fig. 76 [CAS ref. 000863]**

Distribution (Fig. 337):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas
Reference: Chaves 1908 (as *Tryblionella marginata* Sm.)

***Tryblionella navicularis* (Brébisson in Kützing) Ralfs in Pritchard 1861**, p. 792 [CAS ref. 001063]

Basionym: *Surirella navicularis* Brébisson in Kützing 1849 [CAS ref. 000596]

Nomenclatural synonym: *Nitzschia navicularis* (Brébisson in Kützing) Grunow in Cleve & Grunow 1880 [CAS ref. 000241]

Distribution (Fig. 338):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Nitzschia navicularis* (Brébisson) Grunow)

Subregion: Baixo Vouga

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia navicularis* (Brébisson) Grunow)

Municipality: Estarreja (District: Aveiro)

Site: Estarreja, Antuã River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia navicularis* (Brébisson) Grunow)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Tryblionella navicularis* (Brébisson) Ralfs)

***Tryblionella punctata* W. Smith 1853**, p. 36; pl. 10, fig. 76 a', pl. 30, fig. 261 [CAS ref. 000863]

Nomenclatural synonym: *Nitzschia punctata* (W. Smith) Grunow in Schneider 1878 [CAS ref. 000439]

Distribution (Fig. 339):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Anadia (District: Aveiro)

Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia punctata*)

***Tryblionella scalaris* (Ehrenberg) Siver & P.B. Hamilton 2005**, p. 374 [CAS ref. 013342]

Basionym: *Synedra scalaris* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonym: *Nitzschia scalaris* (Ehrenberg) W. Smith 1853 [CAS ref. 000863]

Distribution (Fig. 340):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia scalaris* (Ehr.) W. Smith)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Frossos, Carreira Creek (Mondego Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Municipality: Aveiro (District: Aveiro)

Site: Eixo, Horta Stream (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Pano, Largo River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Requeixo, Cértima River (Vouga Basin)

Reference: Almeida 1998 (as *Nitzschia scalaris* (Ehrenberg) W. Smith)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Nitzschia scalaris* (Ehr.) W. Smith)

***Tryblionella victoriae* Grunow 1862**, p. 553; pl. 28/12, fig. 34 [CAS ref. 000428]

Nomenclatural synonyms: *Nitzschia tryblionella* var. *victoriae* (Grunow) Grunow 1880 [CAS ref. 009613]

Nitzschia levidensis var. *victoriae* (Grunow) Cholnoky 1956 [CAS ref. 000202]

Distribution (Fig. 341):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

- Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantzsch v. *victoriae* Grunow)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantzsch v. *victoriae* Grunow)
- Municipality: Anadia (District: Aveiro)
Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *victoriae*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Nitzschia levidensis* (W. Smith) Grunow var. *victoriae* (Grunow) Cholnoky)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Nitzschia tryblionella* Hantzsch v. *victoriae* Grunow)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Nitzschia tryblionella* Hantzsch v. *victoriae* Grunow); Gil et al. 1989-1990 (as *Nitzschia tryblionella* v. *victoriae*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Nitzschia tryblionella* v. *victoriae*)
- Subregion: Not specified
Municipality: Not specified
Site: Not specified
Reference: Gil et al. 1991 (as *Nitzschia tryblionella* v. *victoriae*)

***Ulnaria* (Kützing) Compère 2001, p. 100**
[CAS ref. 009463]

***Ulnaria acus* (Kützing) Aboal in Aboal et al. 2003, p. 105 [CAS ref. 012666]**

Basionym: *Synedra acus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Fragilaria ulna* var. *acus* (Kützing) Lange-Bertalot 1980b [CAS ref. 008465]

Distribution (Fig. 342):

REGION: NORTE
Subregion: Cávado

- Municipality: Terras de Bouro (District: Braga)
 Site: Bouro Reservoir, Homem River (Cávado Basin)
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)
- Subregion: Entre Douro e Vouga
 Municipality: Oliveira de Azeméis (District: Aveiro)
 Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Vale de Cambra (District: Aveiro)
 Site: Vale de Cambra, Caima River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Subregion: Grande Porto
 Municipality: Matosinhos (District: Porto)
 Site: Not specified
 Reference: Zimmermann 1910 (as *Synedra acus* Kütz.)
- Subregion: Minho-Lima
 Municipality: Caminha (District: Viana do Castelo)
 Site: Seixas, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)
- Municipality: Melgaço (District: Viana do Castelo)
 Site: Melgaço, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)
- Site: São Gregório, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)
- Municipality: Monção (District: Viana do Castelo)
 Site: Monção, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)
- Municipality: Valença (District: Viana do Castelo)
 Site: Valença, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)
- Municipality: Not specified
 Site: Ínsua do Ranhão, Minho River (Minho Basin)
 Reference: Vasconcelos et al. 2000 (as *Synedra acus*)

REGION: CENTRO

- Subregion: Baixo Mondego
 Municipality: Coimbra (District: Coimbra)
 Site: Poço do Almegue
 Reference: Nauwerck 1959 (as *Synedra acus* Kütz.)
- Municipality: Figueira da Foz (District: Coimbra)
 Site: Lagoa da Vela, Bom-Sucesso
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)
- Municipality: Mira (District: Coimbra)
 Site: Lagoa de Mira
 Reference: Nauwerck 1962 (as *Synedra acus* Kg.)

- Municipality: Penacova (District: Coimbra)
 Site: Aguieira Reservoir, Mondego River (Mondego Basin)
 Reference: Oliveira & Monteiro 1992 (as *Synedra acus*)
- Subregion: Baixo Vouga
 Municipality: Águeda (District: Aveiro)
 Site: Águeda, Águeda River (Vouga Basin)
 References: Gil 1988 (as *Synedra acus* Kützing); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Avelal de Baixo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Murta, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Raivo, Águeda River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
 Reference: Gil 1988 (as *Synedra acus* Kützing)
- Municipality: Albergaria-a-Velha (District: Aveiro)
 Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)
 Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
 Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: São João de Loure, Vouga River (Vouga Basin)
 Reference: Nauwerck 1959 (as *Synedra acus* Kütz.)
- Site: Valmaior, mouth of Filvida River (Vouga Basin)
 Reference: Nunes et al. 2002 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
 Site: Curia, Cértima River (Vouga Basin)
 Reference: Rino & Gil 1989 (as *Synedra acus*)

- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra acus*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Synedra acus* Kützing)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra acus*)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra acus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)

- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kützing) Lange-Bertalot)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra acus* Kützing)
- Subregion: Beira Interior Norte
Municipality: Guarda (District: Guarda)
Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra acus* Kuetz.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.)
- Subregion: Beira Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Synedra acus* kg.)
- Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Synedra acus*)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra acus* Kützing)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra acus* Kützing)
- Subregion: Médio Tejo
Municipality: Abrantes (District: Santarém)
Site: Tramagal, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Municipality: Tomar (District: Santarém)
Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)
References: Cabeçadas et al. 1980 (as *Synedra acus*); Brito & Andrade 1992 (as *Synedra acus*)
- Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra acus* Kg.)
- Site: Renova, Almonda River (Tagus Basin)

- Reference: Oliveira & Caldas 1971 (as *Synedra acus* Kg.)
Municipality: Vila Nova da Barquinha (District: Santarém)
Site: Almourol, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River
Reference: Monteiro & Oliveira 1972 (as *Synedra acus*)
- Subregion: Pinhal Interior Norte
Municipality: Pedrógão Grande (District: Leiria)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra acus*)
- Subregion: Pinhal Interior Sul
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra acus*)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Covão do Vidoal Reservoir (Mondego Basin)
References: Nauwerck 1962 (as *Synedra acus* Kg.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.)
Site: Lagoa Comprida Reservoir, Lagoa Stream (Mondego Basin)
References: Nauwerck 1962 (as *Synedra acus* Kg.); Santos & Carvalho 2001 (as *Synedra acus* Kuetz.); Vasconcelos et al. 2001 (as *Synedra acus*); MAOT 2002 (as *Synedra acus*)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Synedra ulna* var. *acus* (Kützing) Lange-Bertalot)
- Subregion: Not specified
Municipality: Not specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Synedra acus*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Synedra acus*); Cerqueira da Silva et al. 1993 (as *Synedra acus*)
Site: Not specified
Reference: Calado 1990 (as *Synedra acus* Kützing)
- REGION: LISBOA
Subregion: Grande Lisboa
Municipality: Mafra (District: Lisboa)
Site: Tapada de Mafra, Sobral da Abelheira
Reference: Oliveira 1971b (as *Synedra acus*)
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)

REGION: ALENTEJO

Subregion: Alentejo Central

Municipality: Évora (District: Évora)

Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)

References: Andrade & Brito 1995 (as *Synedra acus*); Oliveira & Monteiro 1995 (as *Synedra acus*); Oliveira 1996 (as *Synedra acus*)

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: São Romão, Sado River (Sado Basin)

Reference: Coutinho 2003 (as *Synedra acus* Kützing)

Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)

Reference: Nauwerck 1962 (as *Synedra acus* Kg.)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Santiago do Cacém (District: Setúbal)

Site: Campilhas Reservoir, Campilhas Stream (Sado Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra acus*)

Municipality: Elvas, Portalegre (District: Portalegre)

Site: Caia Reservoir, Caia River (Guadiana Basin)

Reference: Oliveira 1984a (as *Synedra acus*)

Municipality: Gavião (District: Portalegre)

Site: Belver Reservoir, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra acus*)

Municipality: Nisa (District: Portalegre)

Site: Barca da Amieira, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra acus*)

Site: Fratel Reservoir, Tagus River (Tagus Basin)

Reference: INIP 1977 (as *Synedra acus* Kz.); Fernandes et al. 1987 (as *Synedra acus*)

Site: Poio Reservoir, Nisa Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Synedra acus* Kg.)

Municipality: Ponte de Sôr (District: Portalegre)

Site: Montargil Reservoir, Sôr Stream (Tagus Basin)

Reference: Coutinho 1990 (as *Synedra acus*)

Subregion: Baixo Alentejo

Municipality: Aljustrel (District: Beja)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Synedra acus* Kg.)

- Municipality: Almodôvar (District: Beja)
Site: Monte da Vinha, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra acus*)
- Municipality: Ferreira do Alentejo (District: Beja)
Site: Odivelas Reservoir, Odivelas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Synedra acus*)
- Municipality: Ourique (District: Beja)
Site: Monte da Rocha Reservoir, Sado River (Sado Basin)
Reference: Oliveira 1984a (as *Synedra acus*)
- Subregion: Lezíria do Tejo
- Municipality: Cartaxo (District: Santarém)
Site: Valada, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Municipality: Chamusca (District: Santarém)
Site: Chamusca, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Municipality: Salvaterra de Magos (District: Santarém)
Site: Magos Reservoir, Magos Stream (Tagus Basin)
References: Nauwerck 1962 (as *Synedra acus* Kg.); Oliveira 1984a (as *Synedra acus*)
- Municipality: Santarém (District: Santarém)
Site: Ómnias, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra acus*)
- Subregion: Not specified
- Municipality: Not specified
Site: Guadiana River (Guadiana Basin)
Reference: Oliveira 1991 (as *Synedra acus*)
Site: Rocha da Galé, Guadiana River (Guadiana Basin)
Reference: Andrade & Brito 1991 (as *Synedra acus*)

REGION: ALGARVE

Subregion: Algarve

- Municipality: Silves (District: Faro)
Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)
Reference: Oliveira 1984a (as *Synedra acus*)

REGION: AUTONOMOUS REGION OF AZORES

- Municipality: Calheta (São Jorge Island)
Site: Ribeira do Salto (São Jorge Island)
Reference: Mölder 1947 (as *Synedra acus* Kütz.)
- Municipality: Ponta Delgada (São Miguel Island)
Site: Lagoa do Canário
Reference: Mölder 1947 (as *Synedra acus* Kütz.)
Site: Lagoa Pequena
Reference: Holmboe 1901 (as *Synedra acus* Kütz.)
Site: Lagoa das Sete Cidades

Reference: Oliveira 1989 (as *Synedra acus*)
Municipality: Povoação (São Miguel Island)
Site: Lagoa das Furnas
References: Holmboe 1901 (as *Synedra acus* Kütz.); Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.); Mölder 1947 (as *Synedra acus* Kütz.); Rodrigues et al. 1995 (as *Synedra acus*)
Site: Ribeira Quente
References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)
Municipality: Not specified
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Synedra acus* Kütz.); Bourrelly & Manguin 1946a (as *Synedra acus* Kütz.)
Site: São Jorge Island
Reference: Johansson 1977 (as *Synedra acus* Kütz.)
Site: Not specified
References: Gonçalves 2008 (as *Fragilaria* cf. *ulna* var. *acus* (Kützing) Lange-Bertalot); Gonçalves 2008 (as *Synedra acus* Kützing)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra acus*)

Site: Rivers in the South

Reference: Morais et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kütz.) Lange-Bertalot)

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *acus* (Kütz.) Lange-Bertalot)

***Ulnaria amphirhynchus* (Ehrenberg) Compère & Bukhtiyarova in Bukhtiyarova & Compère 2006, p. 280 [CAS ref. 013459]**

Basionym: *Synedra amphirhynchus* Ehrenberg 1843b [CAS ref. 000294]

Nomenclatural synonyms: *Synedra ulna* var. *amphirhynchus* (Ehrenberg) Grunow 1862 [CAS ref. 000428]

Ulnaria ulna var. *amphirhynchus* (Ehrenberg) Aboal in Aboal et al. 2003 [CAS ref. 012666]

Distribution (Fig. 343):

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Bolfiar, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Municipality: Aveiro (District: Aveiro)

Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Subregion: Dão-Lafões

Municipality: Oliveira de Frades (District: Viseu)

Site: Destriz, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: São João do Monte, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Varzielas, Águeda River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Municipality: Tondela (District: Viseu)

Site: Boi, Agadão River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Municipality: Vouzela (District: Viseu)

Site: Cambra, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)

Reference: Gil 1988 (as *Synedra ulna* Ehr. v. *amphirhynchus* (Ehr.) Grunow)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *amphirhynchus* (E.) Grun)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Santa Cruz das Flores (Flores Island)

Site: Ribeira Grande

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. v. *amphirhynchus* (Ehr.) Grun.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. v. *amphirhynchus* (Ehr.) Grun.)

Municipality: Not specified

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria amphirhynchus* (Ehrenberg) Compère & Bukhtiyarova)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Santana (Madeira Island)

Site: Ribeiro Frio

Reference: Schodduyn 1927 (as *Synedra ulna* (Nitzsch) Ehr. v. *amphirhynchus* Ehr.?)

***Ulnaria biceps* (Kützing) Compère 2001, p. 100 [CAS ref. 009463]**

Basionym: *Synedra biceps* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Synedra ulna* var. *biceps* (Kützing) Kirchner 1878 [CAS ref. 000561]

Synedra ulna var. *biceps* (Kützing) Schönfeldt 1913 [CAS ref. 001856]

Synedra ulna f. *biceps* (Kützing) Hustedt 1957 [CAS ref. 000532]

Fragilaria biceps (Kützing) Lange-Bertalot 1993 [CAS ref. 008467]

Distribution (Fig. 344):

REGION: NORTE

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Caldas do Gerês, Vilar da Veiga, Gerês River (Cávado Basin)

Reference: González-Guerrero 1949 (as *Synedra ulna* (Nitzsch) Ehr. var. *biceps* (Kütz.) Kirchner)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

Municipality: Porto (District: Porto)

Site: Prelada

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

Site: Requezende

Reference: Silva 1950b (as *Synedra ulna* var. *biceps* (Kütz.) Hust.)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Águeda, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Bolfiãr, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Murta, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Site: Raivo, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Redonda, Águeda River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Site: Ribeiro, Alfusqueiro River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna v. biceps*)

Municipality: Albergaria-a-Velha (District: Aveiro)

Site: Bosturenga, Ribeira de Fráguas, Coval da Mó Stream (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Santo António, Valmaior, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

Site: Valmaior, mouth of Filvida River (Vouga Basin)

References: Nunes et al. 2002 (as *Fragilaria biceps* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria biceps* (Kütz.) Lange-Bertalot)

Municipality: Anadia (District: Aveiro)

Site: Curia, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Site: Espairo, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Site: Mogofores, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Site: São João da Azenha, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Site: Tamengos, Cértima River (Vouga Basin)

Reference: Rino & Gil 1989 (as *Synedra ulna v. biceps*)

Municipality: Aveiro (District: Aveiro)

- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Synedra ulna* v. *biceps* (Kützing) V. Schönfeldt)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)
- Municipality: Mealhada (District: Aveiro)
Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)
- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)
- Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *biceps*)
- Municipality: Sever do Vouga (District: Aveiro)
Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)
- Municipality: Vouzela (District: Viseu)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *biceps*)
- Subregion: Médio Tejo
Site: Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *biceps*)
- Municipality: Torres Novas (District: Santarém)
Site: Renova, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra ulna* v. *biceps*)
- Subregion: Oeste
Municipality: Torres Vedras (District: Lisboa)
Site: Coutada, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Synedra ulna* var. *biceps*)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* var. *biceps* (Kützing) Kirchner)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Synedra ulna* v. *biceps*); Gil et al. 1991 (as *Synedra ulna* v. *biceps*)

REGION: LISBOA

Subregion: Grande Lisboa

Municipality: Mafra (District: Lisboa)

Site: Tapada de Mafra, Sobral da Abelheira

Reference: Oliveira 1971b (as *Synedra ulna* var. *biceps*)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Avis (District: Portalegre)

Site: Maranhão Reservoir, Raia Stream (Tagus Basin)

Reference: Oliveira 1984c (as *Synedra ulna* v. *biceps*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1984a (as *Synedra ulna* v. *biceps*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação

Site: Lagoa das Furnas

References: Manguin 1942 (as *Synedra ulna* v. *biceps* (Kützing) Schönfeldt); Bourrelly & Manguin 1946a (as *Synedra ulna* v. *biceps* (Kützing) Schönfeldt)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Ulnaria biceps* (Kützing) P. Compère)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria biceps* (Kützing) P. Compère)

Site: Not specified

Reference: Gonçalves 2008 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

REGION: Not specified
Subregion: Not specified
Municipality: Not specified
Site: Rivers in the South
Reference: Morais et al. 2009 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)
Site: Not specified
Reference: INAG I.P. 2008 (as *Fragilaria biceps* (Kützing) Lange-Bertalot)

***Ulnaria capitata* (Ehrenberg) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Synedra capitata* Ehrenberg 1836 [CAS ref. 001171]

Distribution (Fig. 345):

REGION: NORTE
Subregion: Grande Porto
Municipality: Gondomar (District: Porto)
Site: Gramido
Reference: Silva 1950b (as *Synedra capitata* Ehr.)

REGION: CENTRO
Subregion: Baixo Mondego
Municipality: Coimbra (District: Coimbra)
Site: Poço do Almegue
Reference: Nauwerck 1959 (as *Synedra capitata* Ehrnb. em. Hust.)
Municipality: Mira (District: Coimbra)
Site: Lagoa de Mira
Reference: Nauwerck 1962 (as *Synedra capitata* E. em. Hust.)
Subregion: Baixo Vouga
Municipality: Águeda (District: Aveiro)
Site: Agadão, Agadão River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
Site: Águeda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Site: Avelal de Baixo, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Site: Bolfiar, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Municipality: Anadia (District: Aveiro)
Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Site: Mogoforos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Municipality: Aveiro (District: Aveiro)
Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Synedra capitata* Ehrenberg); Gil et al. 1989-1990 (as *Synedra capitata*)
- Municipality: Oliveira do Bairro (District: Aveiro)
Site: Perrães, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra capitata*)
- Municipality: Not specified
Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra capitata* Ehrenberg)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: São João do Monte, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Site: Varzielas, Águeda River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)

Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra capitata*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra capitata* Ehrenberg)

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)
Site: Casal da Pinheira, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra capitata* Ehr.)
Site: Ribeira Branca, Almonda River (Tagus Basin)
Reference: Oliveira & Caldas 1971 (as *Synedra capitata* Ehr.)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Synedra capitata* Ehrenberg); Gil et al. 1991
(as *Synedra capitata*)

***Ulnaria contracta* (Østrup) E. Morales & M.L. Vis 2007, p. 125**
[CAS ref. 012982]

Basionym: *Synedra ulna* var. *contracta* Østrup 1901 [CAS ref. 012982]

Distribution (Fig. 346):

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra ulna* var. *contracta*)

***Ulnaria delicatissima* (W. Smith) Aboal & P.C. Silva 2004, p. 361**
[CAS ref. 012617]

Basionym: *Synedra delicatissima* W. Smith 1853 [CAS ref. 000863]

Nomenclatural synonyms: *Synedra acus* var. *delicatissima* (W. Smith) Grunow
1862 [CAS ref. 000428]

Fragilaria delicatissima (W. Smith) Lange-Bertalot 1980b [CAS ref. 008465]

Distribution (Fig. 347):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Synedra acus* var. *delicatissima*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira et al. 1985 (as *Synedra acus* var. *delicatissima*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

References: Oliveira 1985 (as *Synedra acus* var. *delicatissima*); Oliveira et al. 1985 (as *Synedra acus* var. *delicatissima*)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra delicatissima*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Odemira (District: Beja)

Site: Santa Clara Reservoir, Mira River (Mira Basin)

References: Oliveira 1987 (as *Synedra acus* Kz. var. *delicatissima* (W. Sm.) Grun.); Oliveira 1992 (as *Synedra acus* Kz. var. *delicatissima* (W. Sm.) Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Ponta Delgada (São Miguel Island)

Site: Lagoa Grande

Reference: Holmboe 1901 (as *Synedra acus* var. *delicatissima* (W. Sm.) Grun.)

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

References: Holmboe 1901 (as *Synedra acus* var. *delicatissima* (W. Sm.) Grun.); Chaves 1908 (as *Synedra delicatissima* Sm.)

Municipality: Not specified

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Fragilaria delicatissima* (W. Smith) Lange-Bertalot)

Site: Not specified

Reference: Gonçalves 2008 (as *Synedra delicatissima* Smith)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria delicatissima* (W. Smith)

Lange-Bertalot)

***Ulnaria delicatissima* var. *angustissima* (Grunow) Aboal & P.C. Silva 2004**, p. 361 [CAS ref. 012617]

Basionym: *Synedra delicatissima* var. *angustissima* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra acus* var. *angustissima* Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 348):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Synedra acus* var. *angustissima* Grun.)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Bom-Sucesso

Reference: Nauwerck 1962 (as *Synedra acus* v. *angustissima* Grun.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Lagoa das Furnas

Reference: Mölder 1947 (as *Synedra acus* Kütz. var. *angustissima* Grun.)

Municipality: Not specified

Site: Not specified

Reference: Gonçalves 2008 (as *Synedra acus* var. *angustissima* Grunow)

***Ulnaria lanceolata* (Kützing) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Synedra lanceolata* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonym: *Synedra ulna* var. *lanceolata* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 349):

REGION: CENTRO

Subregion: Beira Interior Sul

Municipality: Castelo Branco (District: Castelo Branco)

Site: Sobral do Campo

Reference: Zimmermann 1906 (as *Synedra ulna* var. *lanceolata*)

***Ulnaria oxyrhynchus* (Kützing) Aboal in Aboal et al. 2003, p. 110**
[CAS ref. 012666]

Basionym: *Synedra oxyrhynchus* Kützing 1844 [CAS ref. 000595]

Nomenclatural synonyms: *Synedra ulna* var. *oxyrhynchus* (Kützing) Van Heurck 1885 [CAS ref. 001040]

Fragilaria ulna (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot in Krammer & Lange-Bertalot 1991a [CAS ref. 006521]

Distribution (Fig. 350):

REGION: NORTE

Subregion: Entre Douro e Vouga

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

References: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot); Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

Site: Vale de Cambra, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

REGION: CENTRO

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

- Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Aldeia, Segadães, Vouga River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Bolfiar, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Raivo, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Redonda, Águeda River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Aveiro (District: Aveiro)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Site: Viadourous, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
- References: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
- Reference: Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Silva Escura, Braçal Mine, Mau River (Vouga Basin)
- Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kuetz.) V.H.)
- Site: Cubo
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kuetz.) V.H.)
- Site: Diz River
- Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kuetz.) V.H.)
- Site: Mondego River (Mondego Basin)
- References: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kuetz.) V.H.); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kuetz.) V.H.)
- Subregion: Dão-Lafões
- Municipality: Oliveira de Frades (District: Viseu)
- Site: Destriz, Alfusqueiro River (Vouga Basin)
- Reference: Gil et al. 1989-1990 (as *Synedra ulna* v. *oxyrhynchus*)
- Subregion: Médio Tejo
- Municipality: Torres Novas (District: Santarém)
- Site: Almonda River (Tagus Basin)
- Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *oxyrhynchus* (Kg.) V.H.)
- Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *oxyrhynchus* (Kg.) V.H.)

Subregion: Pinhal Interior Norte

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* var. *oxyrhynchus* (Kützing) Van Heurck)

Subregion: Not specified

Municipality: Not specified

Site: Not specified

References: Calado 1990 (as *Synedra ulna* Ehr. var. *oxyrhynchus* (Kützing) van Heurck); Gil et al. 1991 (as *Synedra ulna* v. *oxyrhynchus*); Almeida & Gil 2001 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *oxyrhynchus* (Kützing) Lange-Bertalot)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ribeira Quente

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.)

Municipality: Not specified

Site: Lagoa de Cazador (São Miguel Island)

References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr. var. *oxyrhynchus* (Kütz.) V.H.)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Ulnaria oxyrhynchus* (Kützing) Aboal)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Ponta do Sol (Madeira Island)

Site: Rabaçal (Madeira Island)

Reference: Mölder 1947 (as Rino & Gil 1989 (as *Synedra ulna* v. *oxyrhynchus*))

***Ulnaria ulna* (Nitzsch) Compère 2001**, p. 100 [CAS ref. 009463]

Basionym: *Bacillaria ulna* Nitzsch 1817 [CAS ref. 000684]

Nomenclatural synonyms: *Synedra ulna* (Nitzsch) Ehrenberg 1832 [CAS ref. 000282]

Fragilaria ulna (Nitzsch) Lange-Bertalot 1980b [CAS ref. 008465]

Distribution (Fig. 351):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Alto Rabagão Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Subregion: Ave

Municipality: Vieira do Minho (District: Braga)

Site: Salamonde Reservoir, Cávado River (Cávado Basin)

Reference: Oliveira 1982a (as *Synedra ulna*)

Subregion: Cávado

Municipality: Barcelos (District: Braga)

Site: Barcelos, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Site: Manhente, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Braga (District: Braga)

Site: Padim da Graça, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Esposende (District: Braga)

Site: Marachão, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Municipality: Not specified

Site: Entrepontes, Cávado River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Site: Homem River (Cávado Basin)

Reference: Cerqueira da Silva 1992 (as *Synedra ulna*)

Subregion: Entre Douro e Vouga

Municipality: Oliveira de Azeméis (District: Aveiro)

Site: Bustelo do Caima, Ossela, Caima River (Vouga Basin)

Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Municipality: São João da Madeira (District: Aveiro)

Site: Ui River (Vouga Basin)

Reference: Resende et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Municipality: Vale de Cambra (District: Aveiro)

Site: Barbeito, Caima River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot);
Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Site: São Pedro de Castelões, Caima River (Vouga Basin)

References: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot);
Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

Site: Vale de Cambra, Caima River (Vouga Basin)

- Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Subregion: Grande Porto
- Municipality: Gondomar (District: Porto)
- Site: Gramido
- Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Porto (District: Porto)
- Site: Not specified
- Reference: Colmeiro 1889 (as *Synedra ulna* Ehrenb.)
- Site: Prelada
- Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Requezende
- Reference: Silva 1950b (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Vila Nova de Gaia (District: Porto)
- Site: Febros River (Douro Basin)
- Reference: Cerqueira da Silva 1993 (as *Synedra ulna*)
- Subregion: Minho-Lima
- Municipality: Caminha (District: Viana do Castelo)
- Site: Seixas, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Municipality: Melgaço (District: Viana do Castelo)
- Site: São Gregório, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Municipality: Monção (District: Viana do Castelo)
- Site: Monção, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Municipality: Valença (District: Viana do Castelo)
- Site: Valença, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Municipality: Viana do Castelo (District: Viana do Castelo)
- Site: Alhada, Âncora River (Âncora Basin)
- Reference: Formigo et al. 1993 (as *Synedra ulna*)
- Municipality: Vila Nova de Cerveira (District: Viana do Castelo)
- Site: Barragem de Covas, Coura River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Municipality: Not specified
- Site: Ínsua do Ranhão, Minho River (Minho Basin)
- Reference: Vasconcelos et al. 2000 (as *Synedra ulna*)
- Site: Minho River, international section (Minho Basin)
- Reference: Vasconcelos & Cerqueira 2001 (as *Fragilaria ulna*)
- Subregion: Tâmega
- Municipality: Marco de Canavezes (District: Porto)
- Site: Torrão Reservoir, Tâmega River (Douro Basin)
- Reference: Branco & Guimarães 1991 (as *Synedra ulna*)
- Subregion: Not specified
- Municipality: Not specified
- Site: Ave River (Ave Basin)

Reference: Cerqueira da Silva 1991 (as *Synedra ulna*)
Site: Neiva River (Neiva Basin)
Reference: Cerqueira da Silva & Cunha 1992 (as *Synedra ulna*)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Not specified

Reference: Colmeiro 1889 (as *Synedra ulna* Ehrenb.)

Site: Coimbra

Reference: De Toni 1887 (as *Synedra ulna* Ehrenberg)

Site: Poço do Almegue

Reference: Nauwerck 1959 (as *Synedra ulna* (Nitzsch) Ehrenb)

Municipality: Figueira da Foz (District: Coimbra)

Site: Lagoa da Vela, Bom-Sucesso

Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch) E.)

Site: Lagoa da Vela, Quiaios

Reference: de Figueiredo et al. 2006 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Municipality: Mira (District: Coimbra)

Site: Lagoa de Mira

Reference: Oliveira 1971a (as *Synedra ulna*)

Municipality: Montemor-o-Velho (District: Coimbra)

Site: Irrigation channel near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Site: Marsh near Montemor-o-Velho

Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Site: Tentúgal, Olho da Ribeira dos Moinhos

Reference: Nauwerck 1959 (as *Synedra ulna* (Nitzsch) Ehrenb.)

Municipality: Soure (District: Coimbra)

Site: Irrigation channel near Soure

Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Subregion: Baixo Vouga

Municipality: Águeda (District: Aveiro)

Site: Agadão, Agadão River (Vouga Basin)

References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)

Site: Águeda, Águeda River (Vouga Basin)

References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Site: Aldeia, Segadães, Mestra Creek (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Site: Aldeia, Segadães, Vouga River (Vouga Basin)

Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

Site: Avelal de Baixo, Águeda River (Vouga Basin)

- References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Bolfiar, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Castanheira do Vouga, confluence of Agadão and Águeda Rivers (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Murta, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Óis da Ribeira, Águeda River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ponte dos Diabos, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Raivo, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Redonda, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Ribeiro, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Sernada do Vouga, Vouga River (Vouga Basin)
References: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Municipality: Albergaria-a-Velha (District: Aveiro)
- Site: Carvalhal, Ribeira de Fráguas, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Frossos, Carreira Creek (Mondego Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas (downstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas, Palhal Mine, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Ribeira de Fráguas (upstream of the Palhal Mine), Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes et al. 2003 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)

- Site: Santo António, Valmaior, Caima River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Valmaior (downstream of the mouth of Filvida River), Caima River (Vouga Basin)
References: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot); Ferreira da Silva et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)
- Municipality: Anadia (District: Aveiro)
- Site: Curia, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Espairo, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Mogofores, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: São João de Azenha, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Tamengos, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Municipality: Aveiro (District: Aveiro)
- Site: Aveiro, lake in the municipal park (artificial substrate)
Reference: Gil & Almeida 1993 (as *Synedra ulna* Ehrenberg)
- Site: Eixo, Horta Stream (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Pano, Largo River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Requeixo, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Requeixo 1, Águeda River, upstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Requeixo 2, Águeda River, downstream of the confluence with Cértima River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Site: Vessada, Fontão Creek (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Estarreja (District: Aveiro)
- Site: Estarreja, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Minhoteira, Antuã River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Mealhada (District: Aveiro)
- Site: Pampilhosa, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)

- Site: Viadouros, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Municipality: Oliveira do Bairro (District: Aveiro)
- Site: Canha, Casal Estevão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Canha, Vale de Estevão, Cértima River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Perrães, Cértima River (Vouga Basin)
References: Rino & Gil 1989 (as *Synedra ulna*); Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Perrães, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Repolão, Cértima River (Vouga Basin)
Reference: Rino & Gil 1989 (as *Synedra ulna*)
- Site: Vila Verde, Levira River (Vouga Basin)
Reference: Almeida 1998 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Sever do Vouga (District: Aveiro)
- Site: Pessegueiro do Vouga (upstream of the mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Pessegueiro do Vouga (mouth of Mau River), Vouga River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Silva Escura (downstream of the Malhada Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Site: Silva Escura (Braçal Mine), Mau River (Vouga Basin)
Reference: Nunes 2007 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot)
- Municipality: Not specified
- Site: Pateira de Fermentelos (District: Aveiro)
Reference: Calado 1991 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Subregion: Beira Interior Norte
- Municipality: Guarda (District: Guarda)
- Site: Alfarazes
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Cubo
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Diz River
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Gonçalo
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Mondego River (Mondego Basin)
References: Carvalho 1913 (as *Synedra ulna* Ehrenberg); Santos & Carvalho 2001 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Nueme
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)

- Site: Porto da Carne
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Vela
Reference: Carvalho 1913 (as *Synedra ulna* (Nitzsch) Ehr.)
- Site: Vila Patrício
Reference: Carvalho 1913 (as *Synedra ulna* Ehrenberg)
- Subregion: Beira Interior Sul
Municipality: Castelo Branco (District: Castelo Branco)
Site: São Fiel, Ocreza River (Tagus Basin)
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Sobral do Campo
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Vila Velha de Ródão (District: Castelo Branco)
Site: downstream of Cedilho Reservoir, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
Site: Fratel, Tagus River (Tagus Basin)
Reference: Oliveira et al. 1989 (as *Synedra ulna*)
- Subregion: Cova da Beira
Municipality: Fundão (District: Castelo Branco)
Site: Alpedrinha
Reference: Zimmermann 1906 (as *Synedra ulna* (Nitzsch) Ehr.)
- Subregion: Dão-Lafões
Municipality: Oliveira de Frades (District: Viseu)
Site: Destriz, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
Site: São João do Monte, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
Site: Varzielas, Águeda River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
- Municipality: Tondela (District: Viseu)
Site: Boi, Agadão River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)
Site: In the proximity of Tondela, Criz River (Mondego Basin)
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Municipality: Vouzela (District: Viseu)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil et al. 1989-1990 (as *Synedra ulna*)
Site: Cambra, Alfusqueiro River (Vouga Basin)
Reference: Gil 1988 (as *Synedra ulna* Ehrenberg)
Site: Ponte da Várzea, Alfusqueiro River (Vouga Basin)
References: Gil 1988 (as *Synedra ulna* Ehrenberg); Gil et al. 1989-1990 (as *Synedra ulna*)

Subregion: Médio Tejo

Municipality: Abrantes (District: Santarém)

Site: Bexiga (Mouriscas), Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra ulna*)

Site: Forno Novo, Tagus River (Tagus Basin)

Reference: Caldas 1988 (as *Synedra ulna*)

Site: Tramagal, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra ulna*)

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Frade 1952 (as *Synedra ulna*); Frade 1954 (as *Synedra ulna*);

Frade 1961 (as *Synedra ulna*); Cabeçadas et al. 1980 (as *Synedra ulna*);

Ferreira 1986 (as *Synedra ulna*); Brito & Andrade 1992 (as *Synedra ulna*)

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Casal do Feijão, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Renova, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Vila Nova da Barquinha (District: Santarém)

Site: Almourol, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra ulna*)

Subregion: Oeste

Municipality: Torres Vedras (District: Lisboa)

Site: Coutada, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)

Site: Runa, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)

Site: Varatojo, Sisandro River

Reference: Monteiro & Oliveira 1972 (as *Synedra ulna*)

Subregion: Pinhal Interior Norte

Municipality: Arganil (District: Coimbra)

Site: Fronhas Reservoir, Alva River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Municipality: Pampilhosa da Serra (District: Coimbra)

Site: Alto Ceira Reservoir, Ceira River (Mondego Basin)

Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)

Site: Santa Luzia Reservoir, Unhais River (Tagus Basin)

Reference: Oliveira 1982b (as *Synedra ulna*)

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

- Reference: Oliveira 1982b (as *Synedra ulna*)
Site: Cabril Reservoir, Zêzere River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)
- Subregion: Pinhal Interior Sul
Municipality: Idanha-a-Nova (District: Castelo Branco)
Site: Idanha Reservoir, Ponsul River (Tagus Basin)
Reference: Oliveira 1982c (as *Synedra ulna*)
Municipality: Mação (District: Santarém)
Site: Pracana Reservoir, Ocreza River (Tagus Basin)
Reference: Oliveira 1982b (as *Synedra ulna*)
- Subregion: Serra da Estrela
Municipality: Seia (District: Guarda)
Site: Sabugueiro, Vale do Rossim Reservoir
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
Site: São Romão, Lagoa do Covão do Curral
Reference: Santos et al. 2002 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Subregion: Not specified
Municipality: Not specified
Site: Nabão River (Tagus Basin)
Reference: Rodrigues et al. 1982 (as *Synedra ulna*)
Site: Paiva River (Douro Basin)
References: Cerqueira da Silva 1991 (as *Synedra ulna*); Cerqueira da Silva et al. 1993 (as *Synedra ulna*); Cerqueira da Silva 1994 (as *Synedra ulna*)
Site: Not specified
References: Calado 1990 (as *Synedra ulna* Ehrenberg); Gil et al. 1991 (as *Synedra ulna*)

REGION: LISBOA

- Subregion: Grande Lisboa
Municipality: Vila Franca de Xira (District: Lisboa)
Site: Vila Franca de Xira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
- Subregion: Península de Setúbal
Municipality: Sesimbra (District: Setúbal)
Site: Alfarim diatomite
Reference: Ferreira & Castelo 1957 (as *Synedra ulna* (Nitzsch) Ehr., fossil)

REGION: ALENTEJO

- Subregion: Alentejo Central
Municipality: Arraiolos (District: Évora)
Site: Divor Reservoir, Divor Stream (Tagus Basin)
References: Oliveira 1984a (as *Synedra ulna*); Oliveira 1984b (as *Synedra ulna*); Oliveira 1987 (as *Synedra ulna* (Nitz.) Ehr.)
Municipality: Évora (District: Évora)

- Site: Monte Novo Reservoir, Degebe River (Guadiana Basin)
References: Andrade & Brito 1995 (as *Synedra ulna*); Oliveira & Monteiro 1995 (as *Synedra ulna*); Oliveira 1996 (as *Synedra ulna*)
- Subregion: Alentejo Litoral
- Municipality: Alcácer do Sal (District: Setúbal)
- Site: Pêgo do Altar Reservoir, Alcáçovas Stream (Sado Basin)
Reference: Oliveira 1984a (as *Synedra ulna*)
- Site: São Romão, Sado River (Sado Basin)
Reference: Coutinho 2003 (as *Synedra ulna* (Nitzsch) Ehrenberg)
- Site: Trigo de Morais Reservoir, Xarrama River (Sado Basin)
Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch) E.)
- Municipality: Odemira (District: Beja)
- Site: Santa Clara Reservoir, Mira River (Mira Basin)
References: Oliveira 1984a (as *Synedra ulna*); Oliveira 1987 (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Not specified
- Site: Sado Estuary (Sado Basin)
Reference: Oliveira & Coutinho 1992 (as *Synedra ulna*)
- Site: Sado River (Sado Basin)
Reference: Monteiro et al. 1995 (as *Synedra ulna*)
- Subregion: Alto Alentejo
- Municipality: Avis (District: Portalegre)
- Site: Maranhão Reservoir, Raia Stream (Tagus Basin)
Reference: Oliveira 1984c (as *Synedra ulna*)
- Municipality: Gavião (District: Portalegre)
- Site: Belver Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Synedra ulna* (Nitzsch) Ehr.); Fernandes et al. 1987 (as *Synedra ulna*)
- Municipality: Marvão (District: Portalegre)
- Site: Sever River (Tagus Basin)
Reference: Oliveira 1975 (as *Synedra ulna*)
- Municipality: Nisa (District: Portalegre)
- Site: Barca da Amieira, Tagus River (Tagus Basin)
Reference: Fernandes et al. 1987 (as *Synedra ulna*)
- Site: Fratel Reservoir, Tagus River (Tagus Basin)
References: INIP 1977 (as *Synedra ulna* (Nitzsch) Ehr.); Fernandes et al. 1987 (as *Synedra ulna*)
- Municipality: Ponte de Sôr (District: Portalegre)
- Site: Montargil Reservoir, Sôr Stream (Tagus Basin)
Reference: Coutinho 1990 (as *Synedra ulna*)
- Subregion: Baixo Alentejo
- Municipality: Aljustrel (District: Beja)
- Site: Água Azeda, Água Azeda Stream (Sado Basin)
Reference: Luís et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna* = *Ulnaria ulna* (Nitzsch) Compère)
- Site: Jungeiros, Roxo Stream (Sado Basin)

Reference: Luís et al. 2009 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna* = *Ulnaria ulna* (Nitzsch) Compère)

Site: Roxo Reservoir, Roxo Stream (Sado Basin)

Reference: Oliveira 1976 (as *Synedra ulna* (Nitzsch) Ehr.); Oliveira 1984a (as *Synedra ulna*)

Subregion: Baixo Alentejo

Municipality: Almodôvar (District: Beja)

Site: Monte da Vinha, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Synedra ulna*)

Subregion: Lezíria do Tejo

Municipality: Cartaxo (District: Santarém)

Site: Valada, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra ulna*)

Municipality: Chamusca (District: Santarém)

Site: Chamusca, Tagus River (Tagus Basin)

Reference: Fernandes et al. 1987 (as *Synedra ulna*)

Municipality: Rio Maior (District: Santarém)

Site: Not specified

Reference: Silva 1946b (as *Synedra ulna* (Nitzsch) Ehr., fossil)

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Nauwerck 1962 (as *Synedra ulna* (Nitzsch) E.)

Municipality: Santarém (District: Santarém)

Site: Ómnias, Tagus River (Tagus Basin)

References: Fernandes et al. 1987 (as *Synedra ulna*); Brito & Andrade 1992 (as *Synedra ulna*)

Subregion: Not specified

Municipality: Not specified

Site: Guadiana River (Guadiana Basin)

Reference: Oliveira 1991 (as *Synedra ulna*)

Site: Rocha da Galé, Guadiana River (Guadiana Basin)

Reference: Andrade & Brito 1991 (as *Synedra ulna*)

REGION: ALGARVE

Subregion: Algarve

Municipality: Silves (District: Faro)

Site: Arade Reservoir, Arade River (Ribeiras do Algarve Basin)

Reference: Oliveira 1987 (as *Synedra ulna* (Nitz.) Ehr.)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Angra do Heroísmo (Terceira Island)

References: Trelease 1897 (as *Synedra ulna* Ehr.); Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)

Municipality: Calheta (São Jorge Island)

Site: Ribeira do Salto (São Jorge Island)

Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)

- Municipality: Corvo (Corvo Island)
 Site: Caldeira
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Horta (Faial Island)
 Site: Not specified
 Reference: Johansson 1977 (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Lajes das Flores (Flores Island)
 Site: Lagoa Rasa
 Reference: Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoinha, Fajãzinha
 Reference: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.)
- Municipality: Ponta Delgada (São Miguel Island)
 Site: Lagoa do Canário
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa Grande
 Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa das Sete Cidades
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.); Oliveira 1989 (as *Synedra ulna*)
- Municipality: Povoação (São Miguel Island)
 Site: Ferruginous springs, Furnas
 Reference: Chaves 1908 (as *Synedra ulna* Ehr.)
 Site: Furnas
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Inferno Grote near Lagoa das Furnas (São Miguel Island)
 Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Lagoa das Furnas
 References: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.); Chaves 1908 (as *Synedra ulna* Ehr.); Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.); Gonçalves 1997 (as *Fragilaria ulna*); Gonçalves & Rodrigues 1999 (as *Fragilaria ulna*)
 Site: Pico do Gafanhoto
 Reference: Holmboe 1901 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Pico da Vara
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Ribeira Quente
 References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.); Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
 Site: Salto do Bargado, Furnas
 Reference: Chaves 1908 (as *Synedra ulna* Ehr., fossil)
 Site: Tambores, Furnas

Reference: Chaves 1908 (as *Synedra ulna* Ehr., fossil)
Municipality: Santa Cruz das Flores (Flores Island)
Site: Ribeira Grande
References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Not specified
Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Vila Franca do Campo (São Miguel Island)
Site: Lagoa do Congro
References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Vila do Porto (Santa Maria Island)
Site: Not specified
References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Not specified
Site: Corvo Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: Faial Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: Flores Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: Lagoa de Cazador (São Miguel Island)
References: Manguin 1942 (as *Synedra ulna* (Nitzsch) Ehr.); Bourrelly & Manguin 1946a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Santa Maria Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: São Jorge Island
References: Johansson 1977 (as *Synedra ulna* (Nitzsch) Ehr.); Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: São Miguel Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: Terceira Island
Reference: Gonçalves et al. 2010 (as *Ulnaria ulna* (Nitzsch) P. Compère)
Site: Not specified
Reference: Gonçalves 2008 (as *Synedra ulna* var. *ulna* (Nitzsch) Ehrenberg)

REGION: AUTONOMOUS REGION OF MADEIRA

Municipality: Funchal (Madeira Island)
Site: Caminho do Meio
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Ribeira de João Gomes
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Levada do Bom Sucesso
Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr.)

Site: Ribeiro Frio
Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Santa Luzia Stream
Reference: Zimmermann 1909a
Site: São João Stream
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Sítio da Pena
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Tanque dos Estanquinhos
Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Ponta do Sol (Madeira Island)
Site: Rabaçal (Madeira Island)
Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Porto Santo (Porto Santo Island)
Site: Serra de Dentro Stream
Reference: Zimmermann 1910-1911 (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Ribeira Brava (Madeira Island)
Site: Pico Stream, Serra da Ribeira Brava
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Ribeira Brava
Reference: Mölder 1947 (as *Synedra ulna* (Nitzsch) Ehr.)
Site: Sítio da Chamorra, Campanário
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Santa Cruz (Madeira Island)
Site: Fonte do Mestre Henrique, Caniço
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)
Municipality: Santana (Madeira Island)
Site: São Roque do Faial
Reference: Zimmermann 1909a (as *Synedra ulna* (Nitzsch) Ehr.)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Synedra ulna*)

Site: Tagus riverbanks (Tagus Basin)

Reference: Ehrenberg 1845 (as *Synedra ulna*)

Site: Not specified

Reference: INAG I.P. 2008 (as *Fragilaria ulna* (Nitzsch) Lange-Bertalot var. *ulna*)

***Ulnaria ulna* var. *aequalis* (Kützing) Aboal in Aboal et al. 2003, p. 112 [CAS ref. 012666]**

Basionym: *Frustulia aequalis* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonym: *Synedra ulna* var. *aequalis* (Kützing) Hustedt 1930, p. 152 [CAS ref. 000502]

Distribution (Fig. 352):

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Povoação (São Miguel Island)

Site: Ferruginous springs, Furnas

Reference: Chaves 1908 (as *Synedra ulna* var. *aequalis*)

Site: Pico da Vara

References: Manguin 1942 (as *Synedra ulna* var. *aequalis* (Kütz.) Hust.);

Bourrelly & Manguin 1946a (as *Synedra ulna* var. *aequalis* (Kütz.) Hust.)

Site: Tambores, Furnas

Reference: Chaves 1908 (as *Synedra ulna* var. *aequalis*, fossil)

***Ulnaria ulna* var. *spathulifera* (Grunow) Aboal in Aboal et al. 2003, p. 114 [CAS ref. 012666]**

Basionym: *Synedra spathulifera* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra ulna* var. *spathulifera* (Grunow) Grunow in Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 353):

REGION: NORTE

Subregion: Grande Porto

Municipality: Gondomar (District: Porto)

Site: Gramido

Reference: Silva 1950b (as *Synedra ulna* var. *spathulifera* Grun.)

REGION: CENTRO

Subregion: Médio Tejo

Municipality: Torres Novas (District: Santarém)

Site: Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1970 (*Synedra ulna* var. *spathulifera* Grun)

Site: Casal da Pinheira, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *spathulifera* Grun.)

Site: Ribeira Branca, Almonda River (Tagus Basin)

Reference: Oliveira & Caldas 1971 (as *Synedra ulna* var. *spathulifera* Grun.)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Setúbal (District: Setúbal)

Site: Not specified

Reference: Zimmermann 1909b (as *Synedra ulna* (Nitzsch) Ehr. var. *spathulifera* Grun.)

REGION: ALENTEJO

Subregion: Alto Alentejo

Municipality: Marvão (District: Portalegre)

Site: Sever River (Tagus Basin)

Reference: Oliveira 1975 (as *Synedra ulna* var. *spatuliphera*)

***Ulnaria ulna* var. *splendens* (Kützing) Aboal in Aboal et al. 2003,**
p. 114 [CAS ref. 012666]

Basionym: *Frustulia splendens* Kützing 1833 [CAS ref. 000594]

Nomenclatural synonyms: *Synedra splendens* (Kützing) Kützing 1844 [CAS ref. 000595]

Synedra ulna var. *splendens* (Kützing) Brun 1880 [CAS ref. 000174]

Distribution (Fig. 354):

REGION: NORTE

Subregion: Grande Porto

Municipality: Matosinhos (District: Porto)

Site: Leça

References: Colmeiro 1889 (as *Synedra splendens* Kg.); Zimmermann 1914 (as *Synedra ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz.) Brun)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra

Reference: Zimmermann 1914 (as *Synedra ulna* (Nitzsch) Ehr. var. *splendens* (Kuetz.) Brun)

Site: Not specified

Reference: Colmeiro 1889 (as *Synedra splendens* Kg.)

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Synedra ulna* var. *splendens*); Santos & Carvalho 2001 (as *Synedra ulna* var. *splendens*)

REGION: ALENTEJO

Subregion: Lezíria do Tejo

Municipality: Rio Maior (District: Santarém)

Site: Espanadal diatomite

Reference: Zbyszewski 1943 (as *Synedra splendens* Ktz., fossil)

Site: Rio Maior diatomite

Reference: Lefébure 1938 (as *Synedra splendens* Ktz., fossil)

***Ulnaria ulna* var. *subaequalis* (Grunow) Aboal in Aboal et al. 2003, p. 114 [CAS ref. 012666]**

Basionym: *Synedra subaequalis* Grunow in Van Heurck 1881 [CAS ref. 001035]

Nomenclatural synonym: *Synedra ulna* var. *subaequalis* (Grunow) Van Heurck 1885 [CAS ref. 001040]

Distribution (Fig. 355):

REGION: CENTRO

Subregion: Beira Interior Norte

Municipality: Guarda (District: Guarda)

Site: Mondego River (Mondego Basin)

References: Carvalho 1913 (as *Synedra ulna* var. *subaequalis*); Santos & Carvalho 2001 (as *Synedra ulna* var. *subaequalis*)

***Urosolenia* Round & R.M. Crawford in Round, Crawford & Mann 1990, p. 679 [CAS ref. 003245]**

***Urosolenia eriensis* (H.L. Smith) Round & R.M. Crawford in Round, Crawford & Mann 1990, p. 679 [CAS ref. 003245]**

Basionym: *Rhizosolenia eriensis* H.L. Smith 1872 [CAS ref. 002575]

Distribution (Fig. 356):

REGION: NORTE

Subregion: Alto Trás-os-Montes

Municipality: Montalegre (District: Vila Real)

Site: Venda Nova Reservoir, Rabagão River (Cávado Basin)

Reference: Oliveira 1982a (as *Rhizosolenia eriensis*)

Subregion: Cávado

Municipality: Terras de Bouro (District: Braga)

Site: Bouro Reservoir, Homem River (Cávado Basin)

Reference: Nauwerck 1962 (as *Rhizosolenia eriensis* H.L. Smith)

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra Reservoir, Mondego River (Mondego Basin)

Reference: Craveiro & Santos 1997 (as *Rhizosolenia eriensis* H.L. Smith)

Subregion: Médio Tejo

Municipality: Tomar (District: Santarém)

Site: Castelo de Bode Reservoir, Zêzere River (Tagus Basin)

References: Nauwerck 1962 (as *Rhizosolenia eriensis* H.L. Smith); Frade 1963 (as *Rhizosolenia eriensis* H.L. Smith)

Subregion: Pinhal Interior Norte

Municipality: Pedrógão Grande (District: Leiria)

Site: Bouçã Reservoir, Zêzere River (Tagus Basin)

Reference: Oliveira 1982b (as *Rhizosolenia eriensis*)

REGION: ALENTEJO

Subregion: Alentejo Litoral

Municipality: Alcácer do Sal (District: Setúbal)

Site: Vale do Gaio Reservoir, Xarrama River (Sado Basin)

Reference: Oliveira 1984a (as *Rhizosolenia eriensis*)

Subregion: Lezíria do Tejo

Municipality: Salvaterra de Magos (District: Santarém)

Site: Magos Reservoir, Magos Stream (Tagus Basin)

Reference: Oliveira 1984a (as *Rhizosolenia eriensis*)

REGION: AUTONOMOUS REGION OF AZORES

Municipality: Praia da Vitória (Terceira Island)

Site: Lagoa do Boi

Reference: Gonçalves 1996 (as *Rhizosolenia eriensis* H.L. Smith)

Municipality: Not specified

Site: Corvo Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F.E. Round & R.M. Crawford)

Site: Flores Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F.E. Round & R.M. Crawford)

Site: Pico Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F.E. Round & R.M. Crawford)

Site: Terceira Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F.E. Round & R.M. Crawford)

Site: São Miguel Island

Reference: Gonçalves et al. 2010 (as *Urosolenia eriensis* F.E. Round & R.M. Crawford)

Site: Not specified

Reference: Gonçalves 2008 (as *Urosolenia eriensis* (H.L. Smith) F.E. Round & R.M. Crawford)

REGION: Not specified

Subregion: Not specified

Municipality: Not specified

Site: Reservoirs in the North and Centre of Portugal

Reference: Cabecinha et al. 2009 (as *Rhizosolenia eriensis*)

***Urosolenia longiseta* (Zacharias) Edlund & Stoermer 1993**, v. 9(1):
p. 59; pl. 1, fig. 5-6 [CAS ref. 008185]

Basionym: *Rhizosolenia longiseta* Zacharias 1893 [CAS ref. 002617]

Distribution (Fig. 357):

REGION: CENTRO

Subregion: Baixo Mondego

Municipality: Coimbra (District: Coimbra)

Site: Coimbra Reservoir, Mondego River (Mondego Basin)

Reference: Craveiro & Santos 1997 (as *Rhizosolenia longiseta* Zacharias)

REGION: LISBOA

Subregion: Península de Setúbal

Municipality: Sesimbra (District: Setúbal)

Site: Lagoa de Albufeira

Reference: Nauwerck 1962 (as *Rhizosolenia longiseta* Zacharias)

***Vanheurckia Brébisson* 1868**, p. 201
[CAS ref. 001107]

***Vanheurckia vulgaris* var. *minor* Tempère & Peragallo 1914**, p.
459; No. 940 [CAS ref. 001070]

Distribution (Fig. 358):

REGION: NORTE

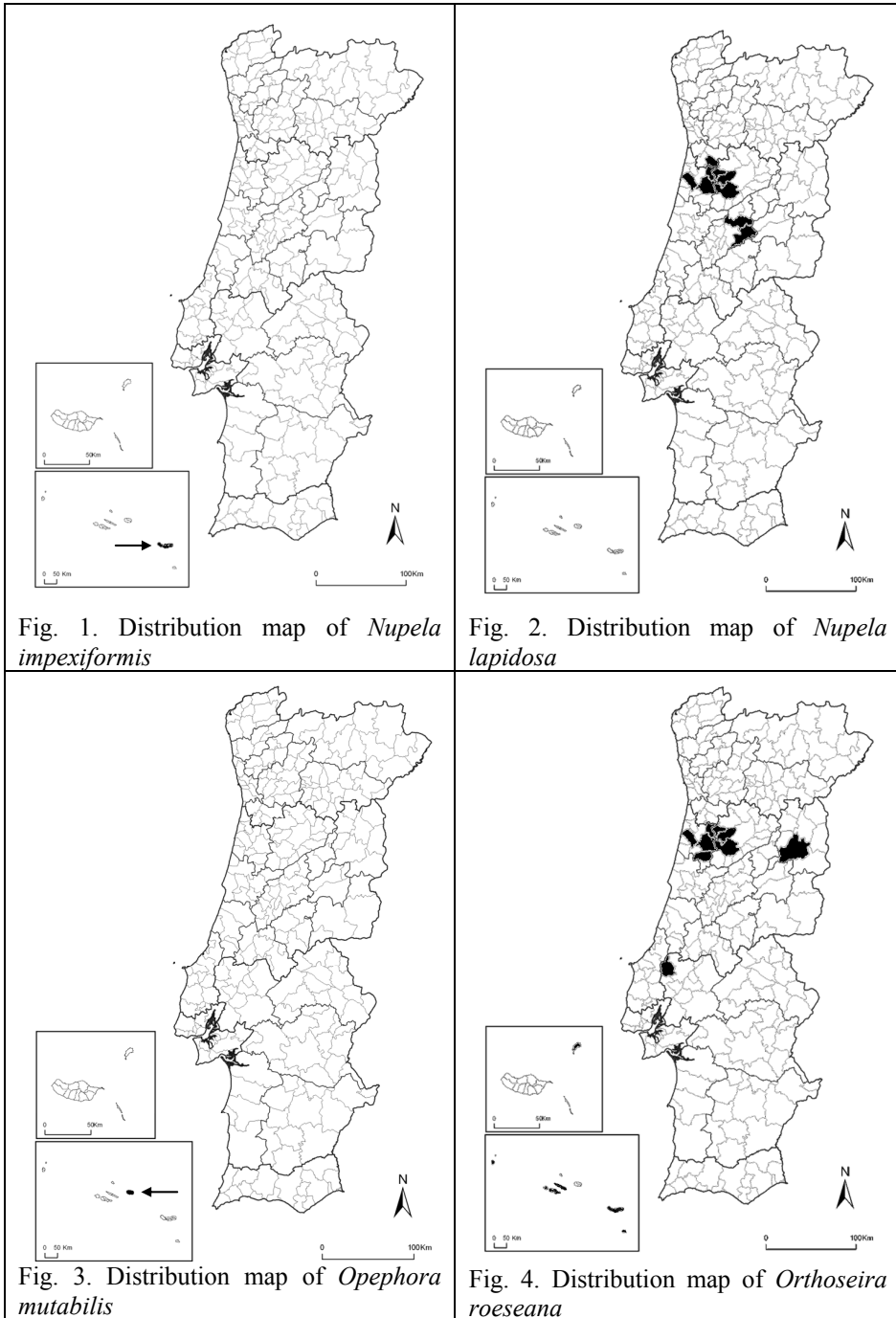
Subregion: Tâmega

Municipality: Castelo de Paiva (District: Aveiro)

Site: Raiva

Reference: Tempère & Peragallo 1907-1915 (as *Van Heurckia vulgaris* v.
minor)

2. DISTRIBUTION MAPS



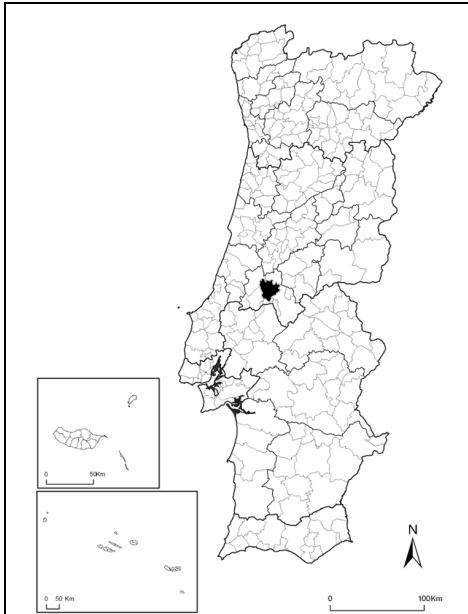


Fig. 5. Distribution map of *Paralia sulcata*

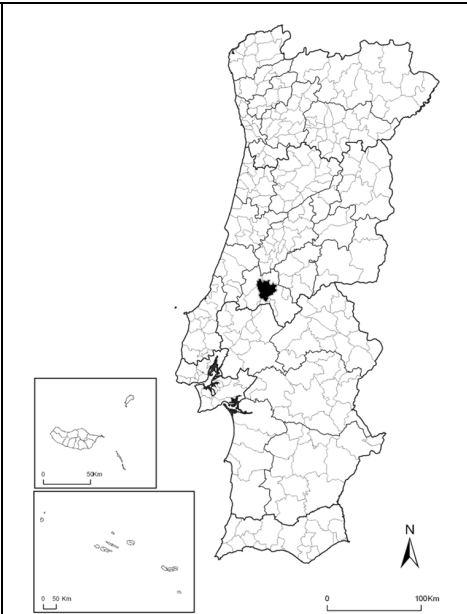


Fig. 6. Distribution map of *Parlibellus cruciculus*

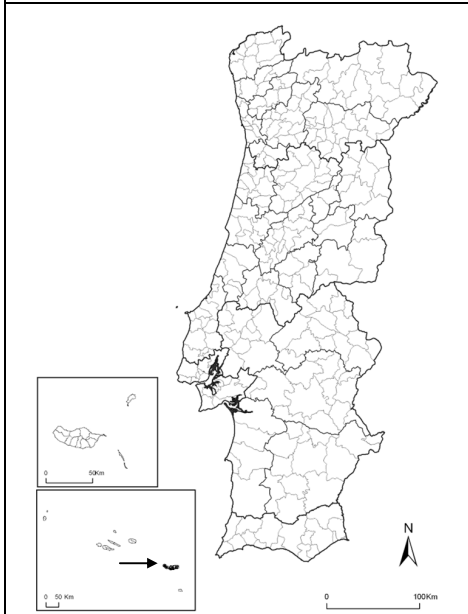


Fig. 7. Distribution map of *Parlibellus protractus*

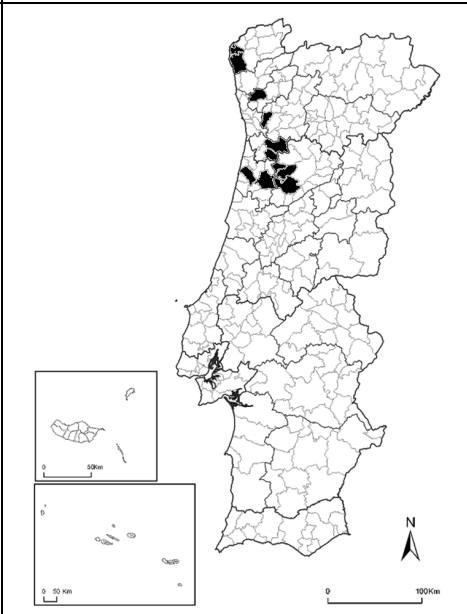


Fig. 8. Distribution map of *Peronia fibula*

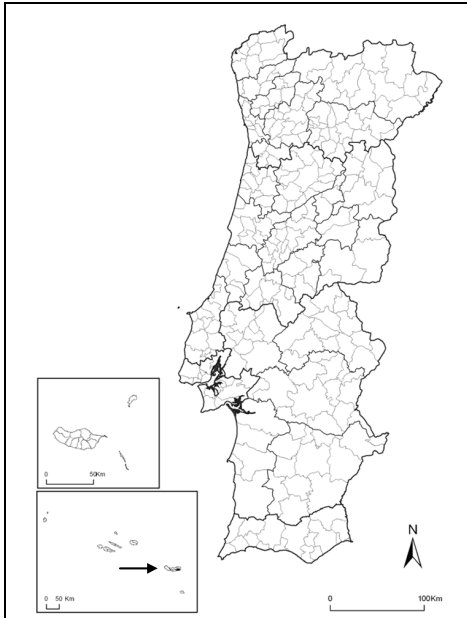


Fig. 9. Distribution map of *Pinnularia acorica*

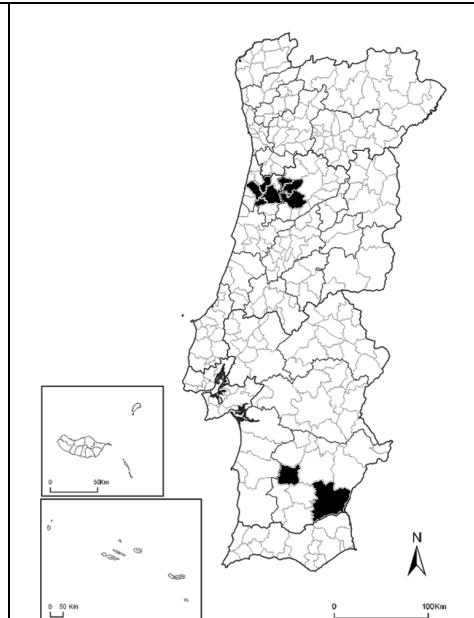


Fig. 10. Distribution map of *Pinnularia acoricola*

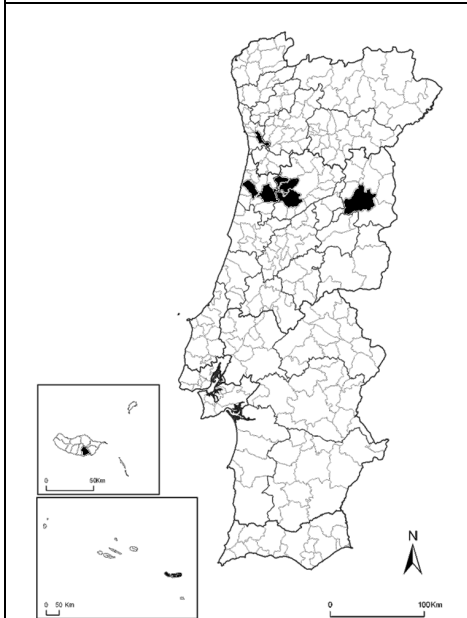


Fig. 11. Distribution map of *Pinnularia acrosphaeria* (Brébisson) W. Smith

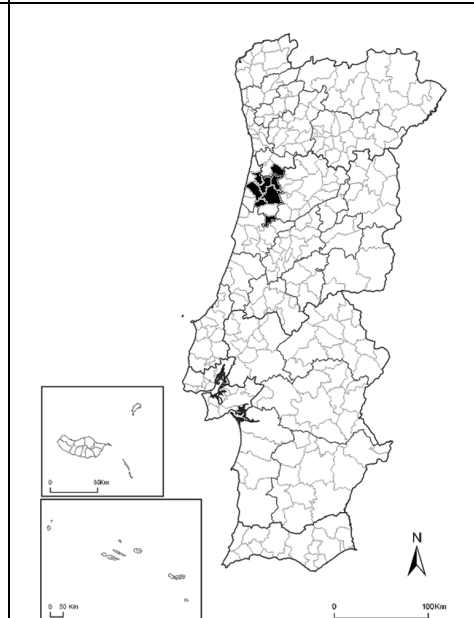


Fig. 12. Distribution map of *Pinnularia acrosphaeria* Rabenhorst

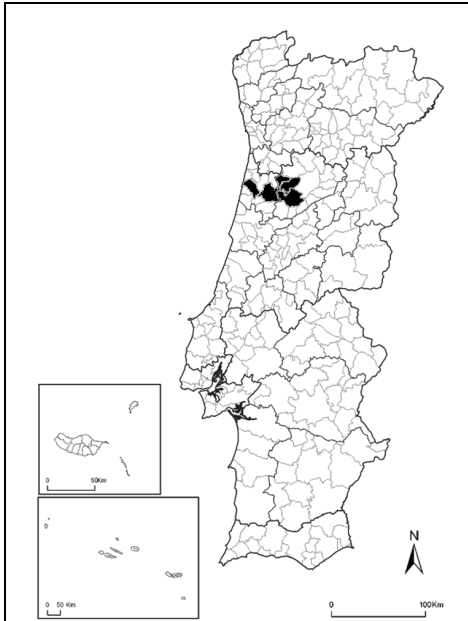


Fig. 13. Distribution map of *Pinnularia acuminata*

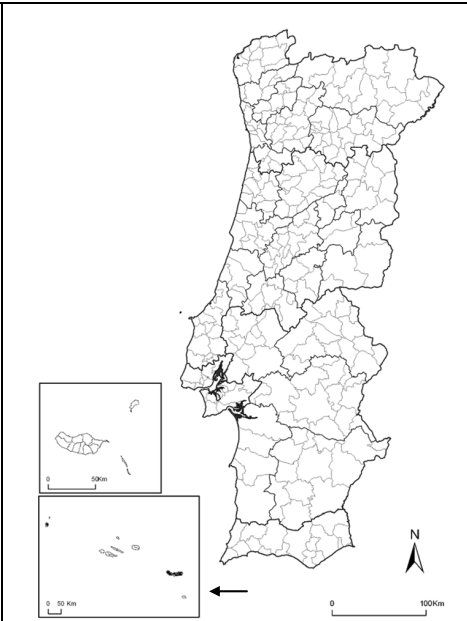


Fig. 14. Distribution map of *Pinnularia allorgei*

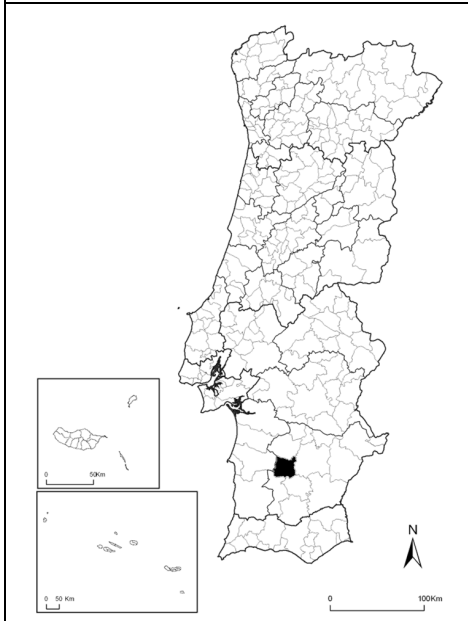


Fig. 15. Distribution map of *Pinnularia alpina*

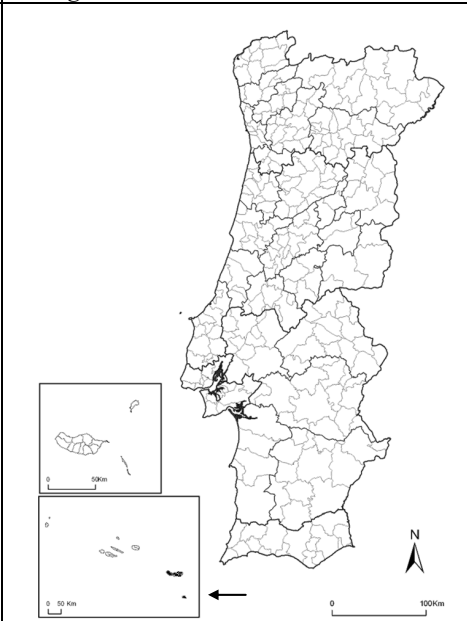


Fig. 16. Distribution map of *Pinnularia angulosa*

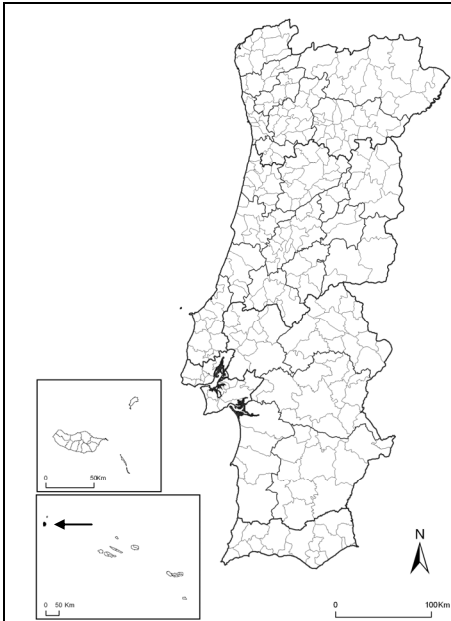


Fig. 17. Distribution map of *Pinnularia angusta*

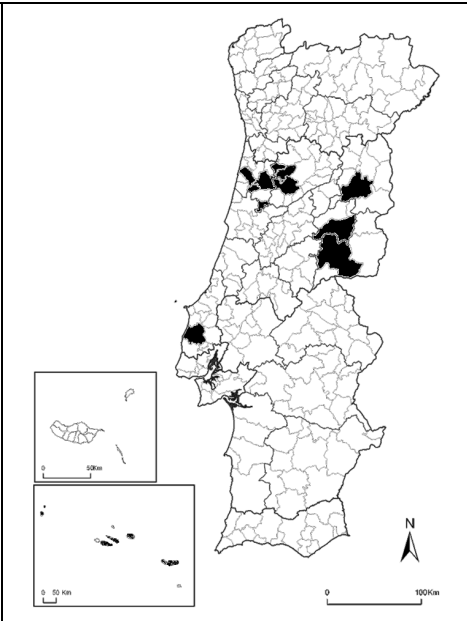


Fig. 18. Distribution map of *Pinnularia appendiculata*

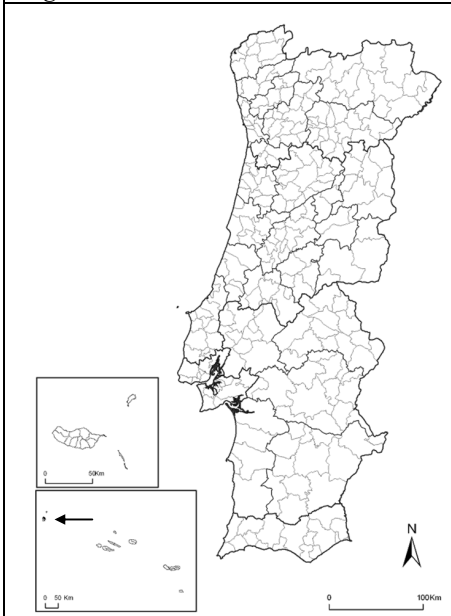


Fig. 19. Distribution map of *Pinnularia appendiculata* f. *constricta*

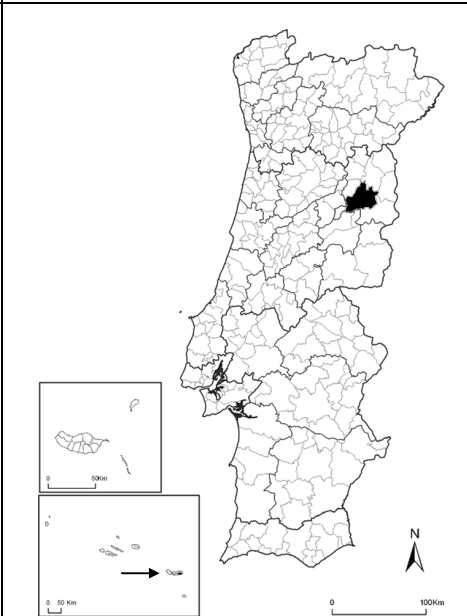


Fig. 20. Distribution map of *Pinnularia bicapitata*

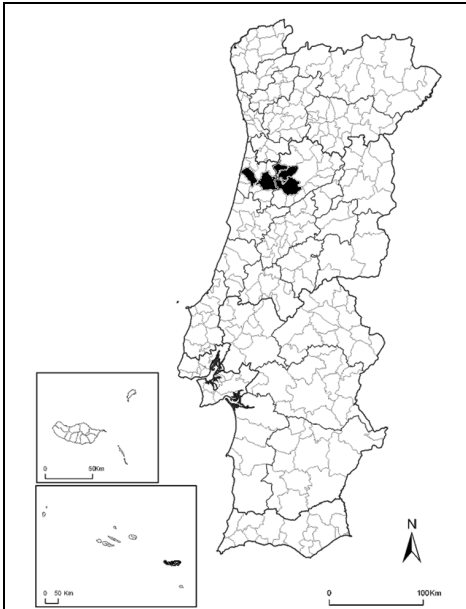


Fig. 21. Distribution map of *Pinnularia biceps*

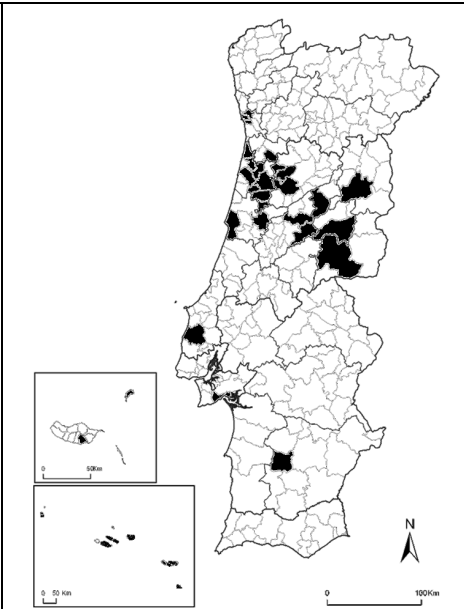


Fig. 22. Distribution map of *Pinnularia borealis*

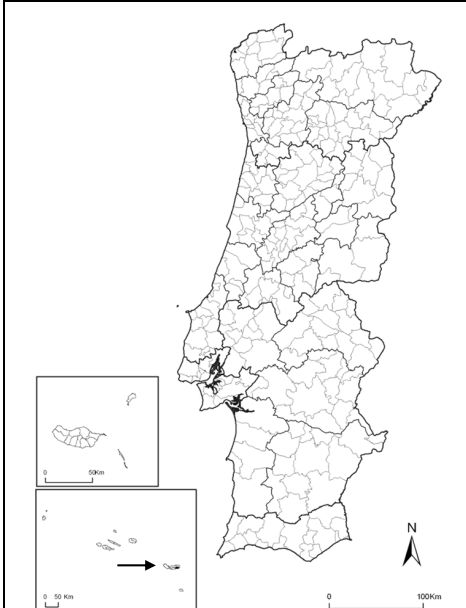


Fig. 23. Distribution map of *Pinnularia borealis* var. *brevicostata* f. *elongata*

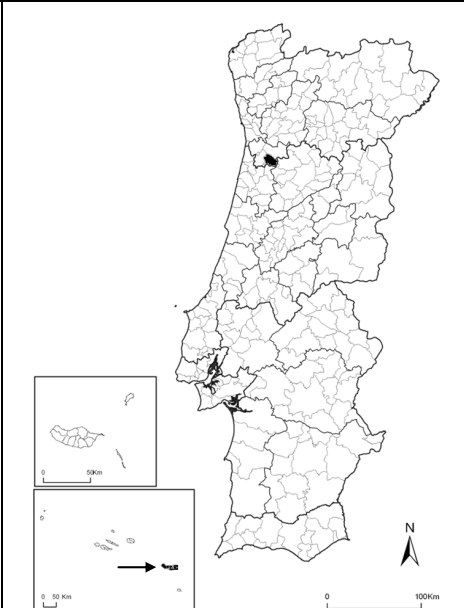


Fig. 24. Distribution map of *Pinnularia brauniana*

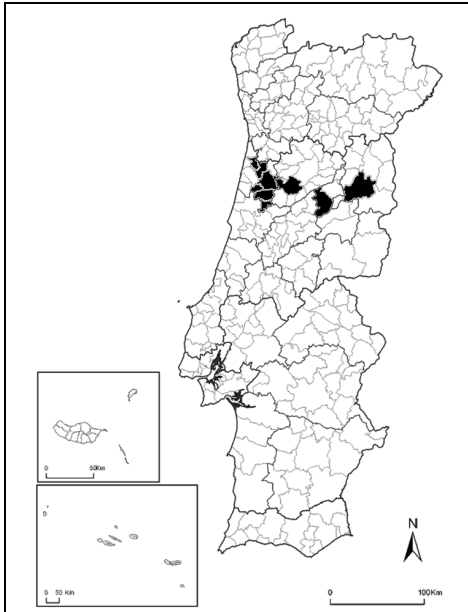


Fig. 25. Distribution map of *Pinnularia braunii*

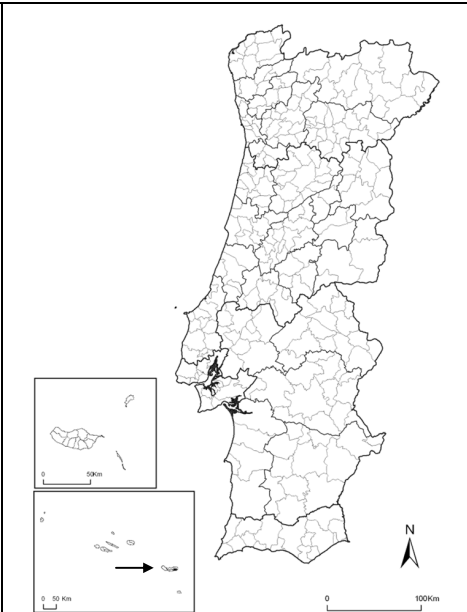


Fig. 26. Distribution map of *Pinnularia braunii* var. *amphicephala*

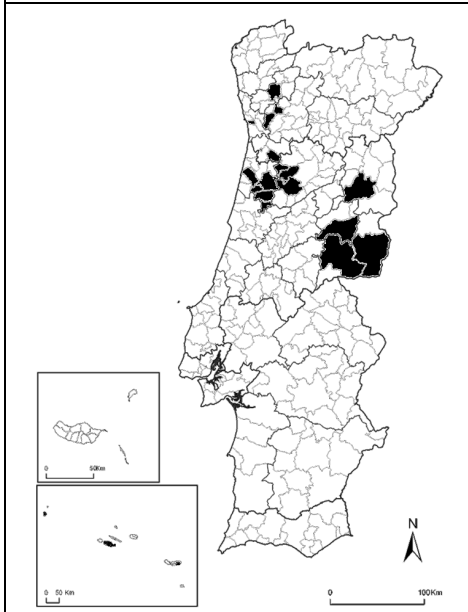


Fig. 27. Distribution map of *Pinnularia brebissonii*

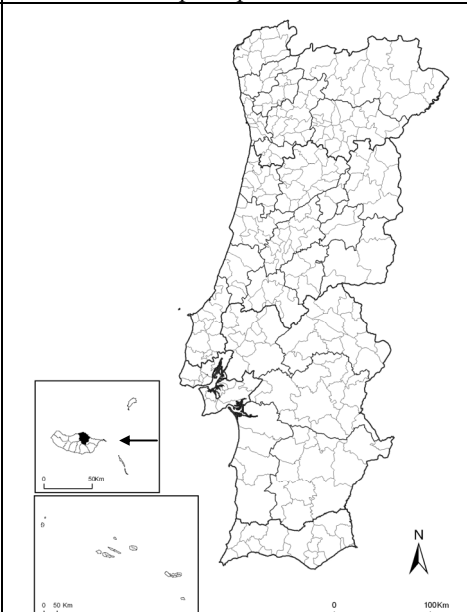


Fig. 28. Distribution map of *Pinnularia brebissonii* var. *angusta*

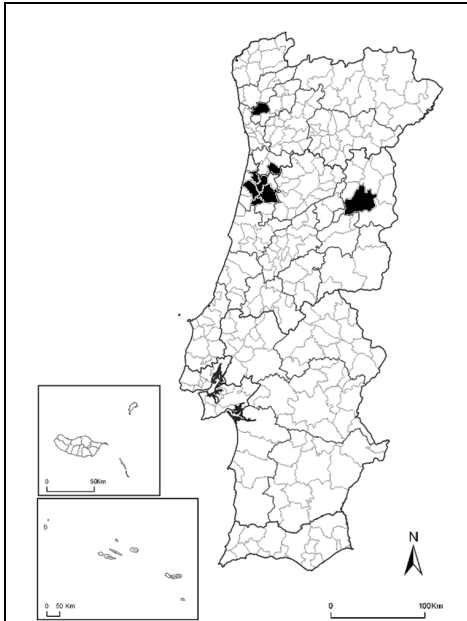


Fig. 29. Distribution map of *Pinnularia brebissonii* var. *diminuta*

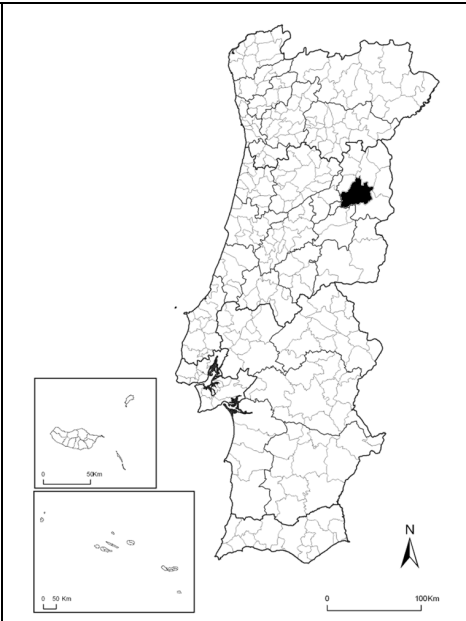


Fig. 30. Distribution map of *Pinnularia brebissonii* var. *subproducta*

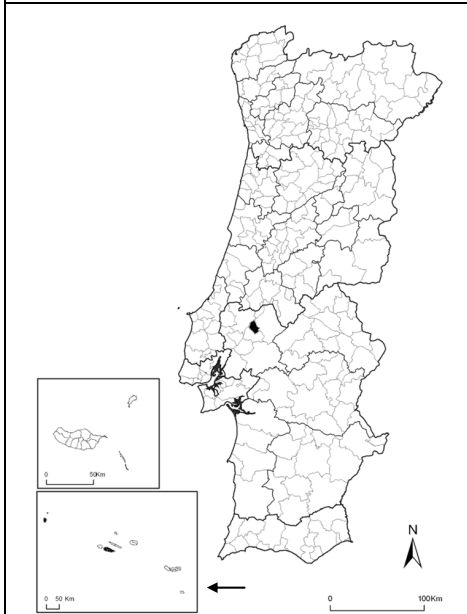


Fig. 31. Distribution map of *Pinnularia brevicostata*

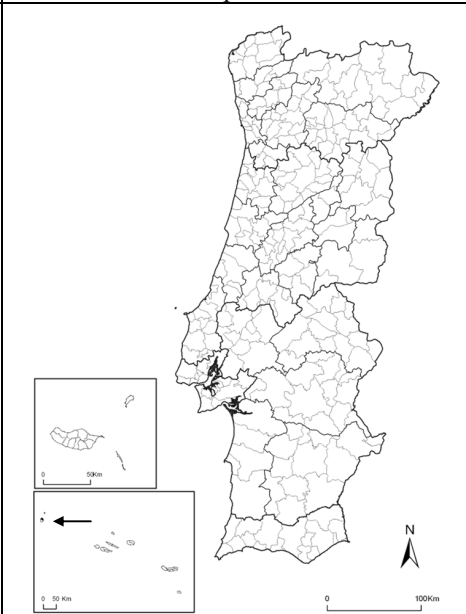


Fig. 32. Distribution map of *Pinnularia brevicostata* var. *intermedia*

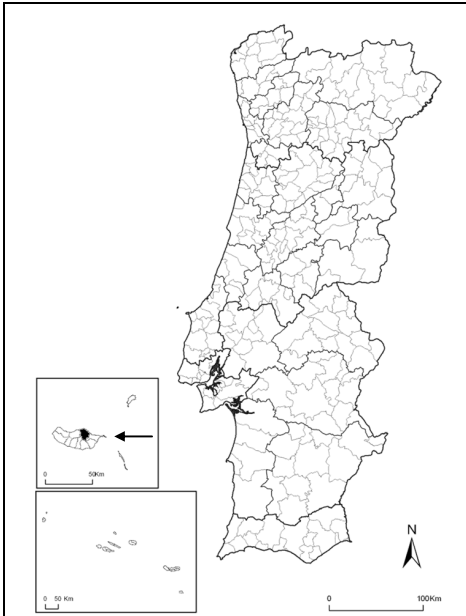


Fig. 33. Distribution map of *Pinnularia caraccana*

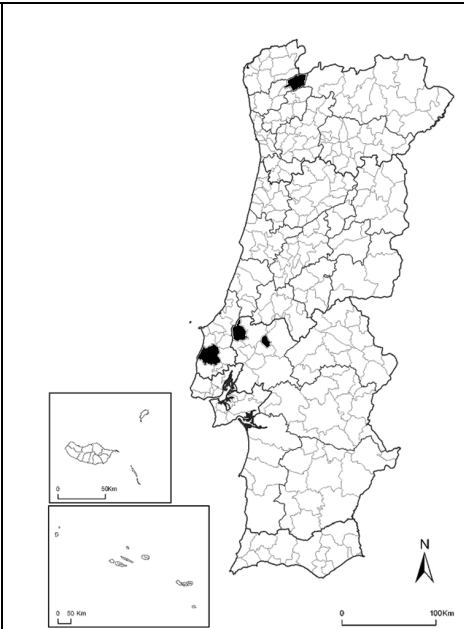


Fig. 34. Distribution map of *Pinnularia dactylus*

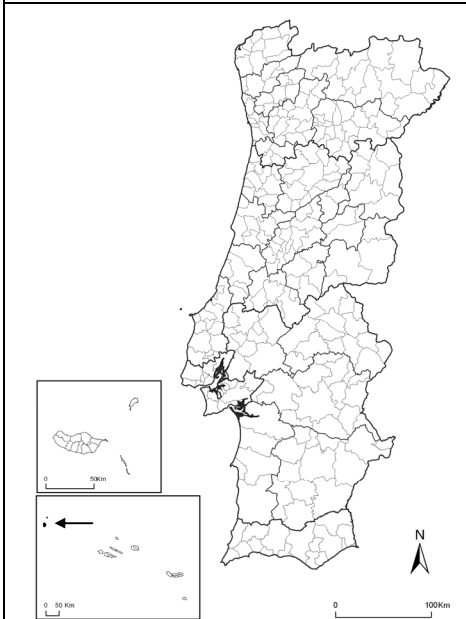


Fig. 35. Distribution map of *Pinnularia decrescens*

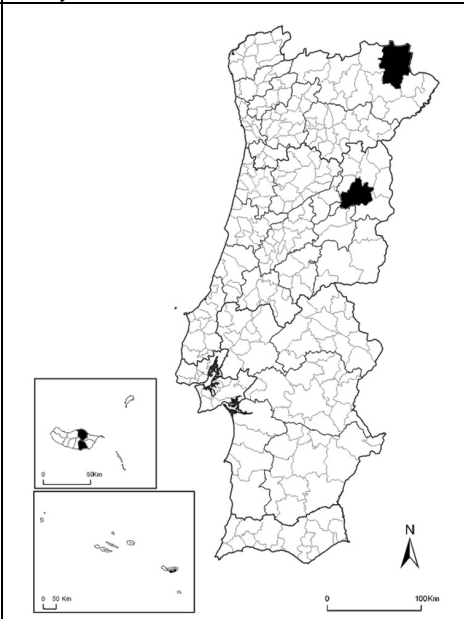


Fig. 36. Distribution map of *Pinnularia dicephala*

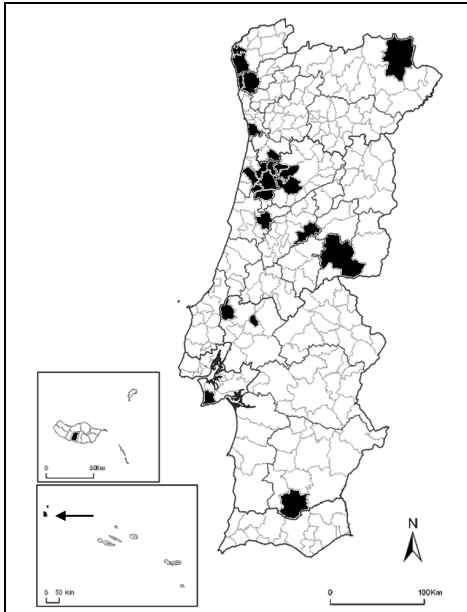


Fig. 37. Distribution map of *Pinnularia divergens*

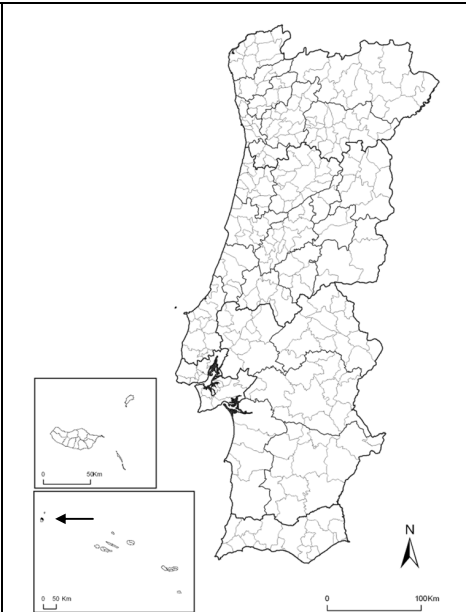


Fig. 38. Distribution map of *Pinnularia divergens* var. *undulata*

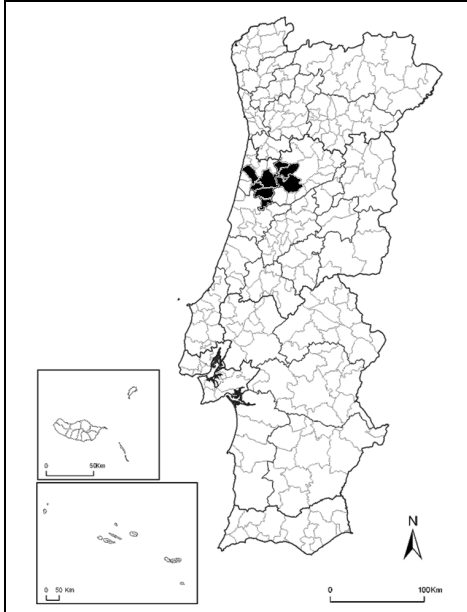


Fig. 39. Distribution map of *Pinnularia divergentissima*

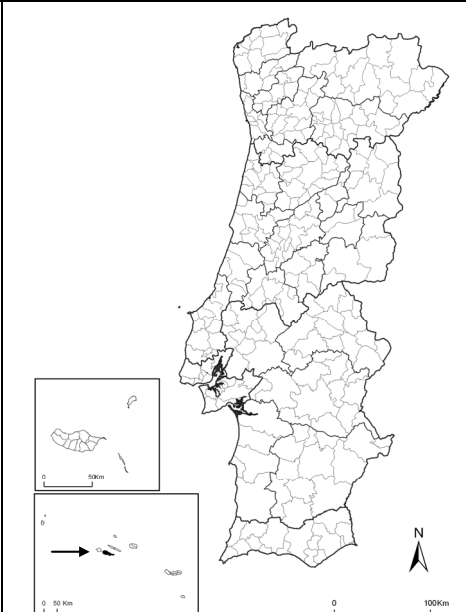


Fig. 40. Distribution map of *Pinnularia dubitabilis*

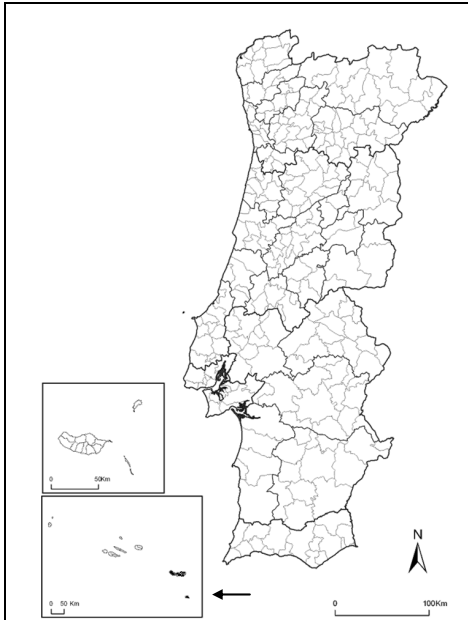


Fig. 41. Distribution map of *Pinnularia erratica*

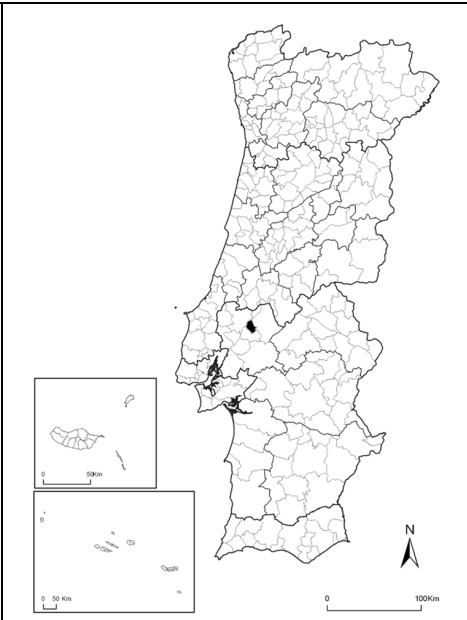


Fig. 42. Distribution map of *Pinnularia esox*

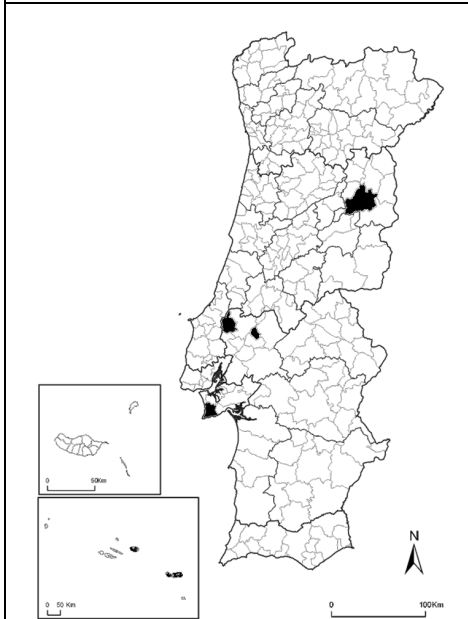


Fig. 43. Distribution map of *Pinnularia gentilis*

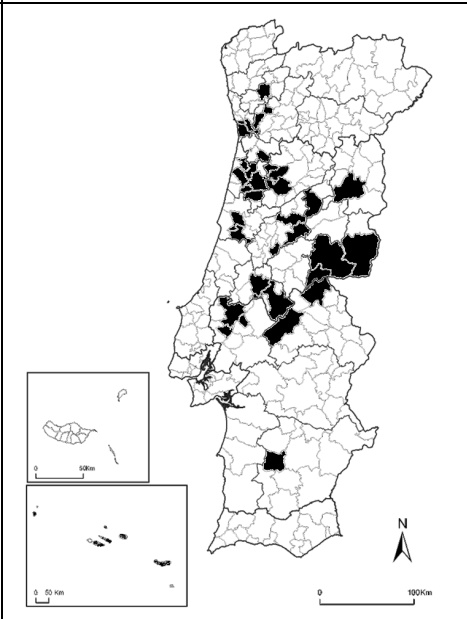


Fig. 44. Distribution map of *Pinnularia gibba* Ehrenberg

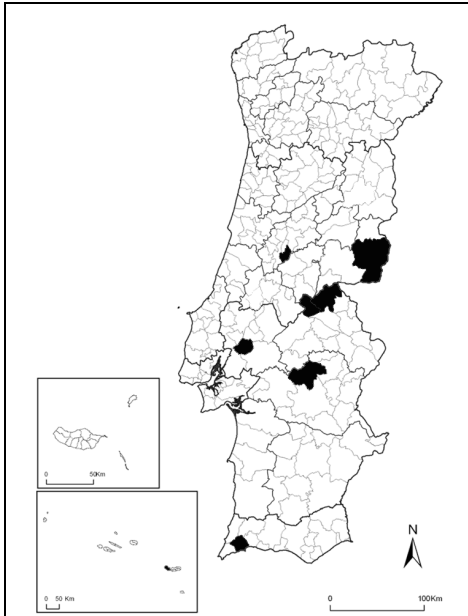


Fig. 45. Distribution map of *Pinnularia gibba* sensu W. Smith

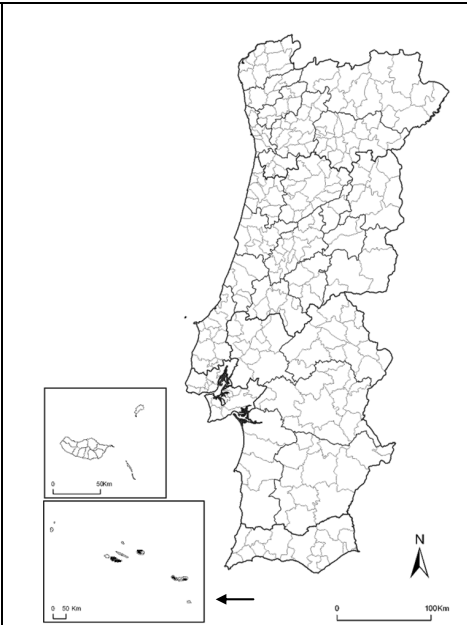


Fig. 46. Distribution map of *Pinnularia gibba* var. *linearis*

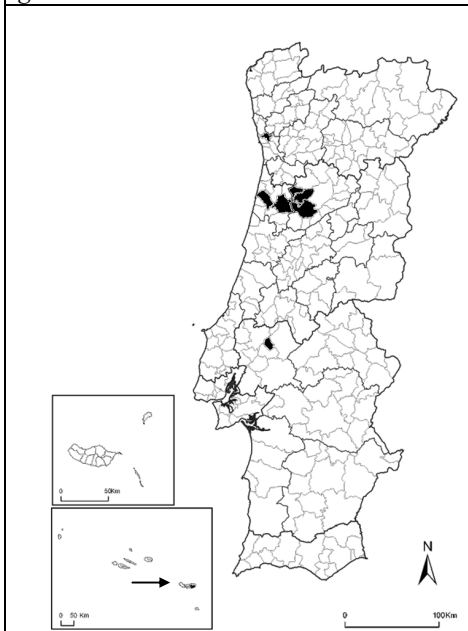


Fig. 47. Distribution map of *Pinnularia gibba* var. *mesogongyla*

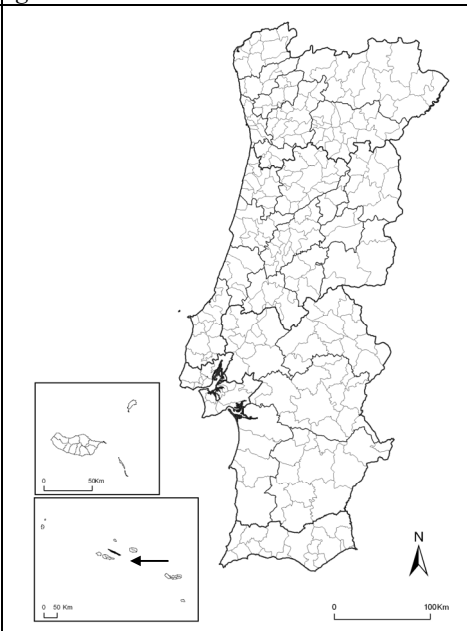


Fig. 48. Distribution map of *Pinnularia gibba* var. *parva*

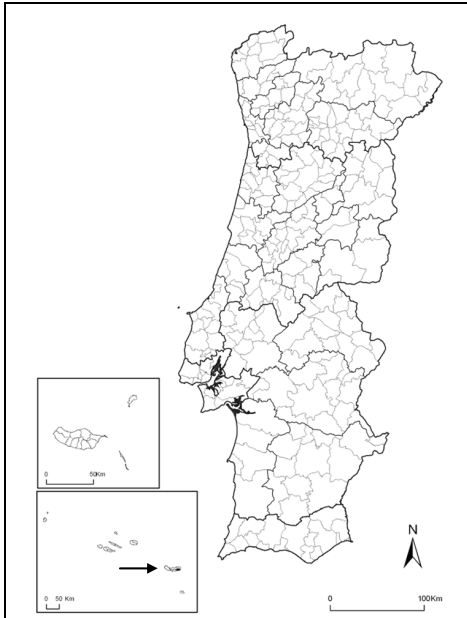


Fig. 49. Distribution map of *Pinnularia gibba* var. *parva* f. *minutissima*

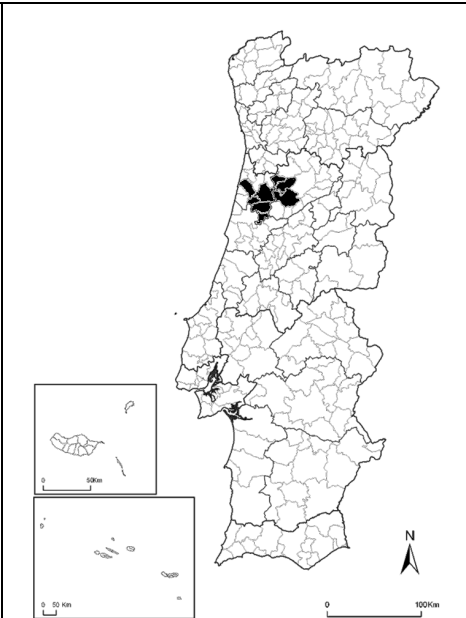


Fig. 50. Distribution map of *Pinnularia gibba* var. *sancta*

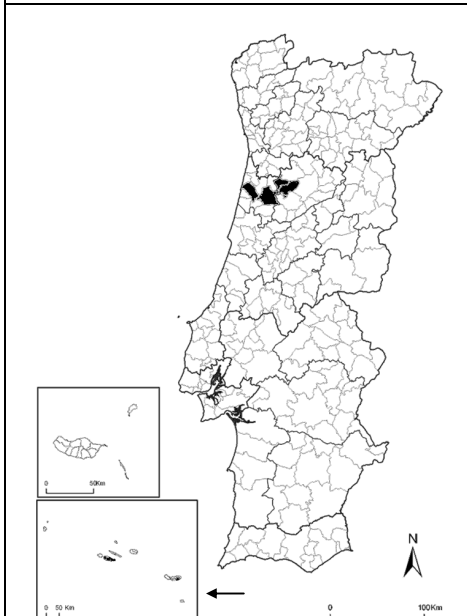


Fig. 51. Distribution map of *Pinnularia gibba* var. *subundulata*

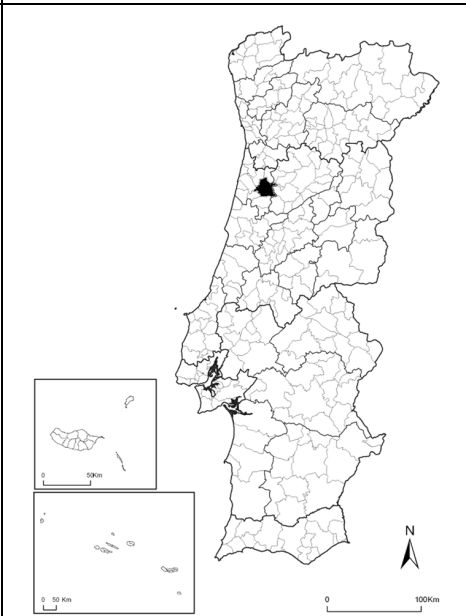


Fig. 52. Distribution map of *Pinnularia gracilis*

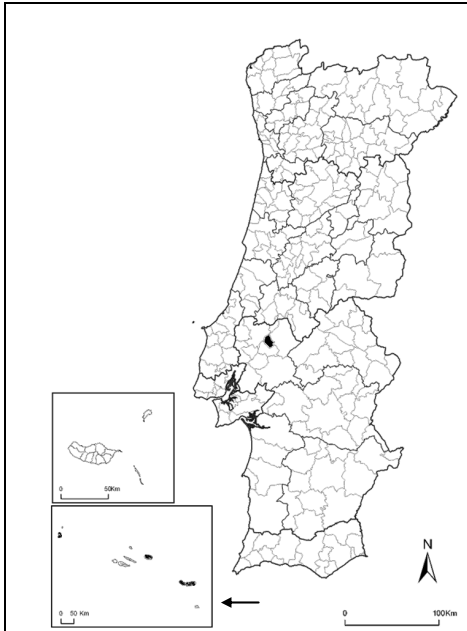


Fig. 53. Distribution map of *Pinnularia hemiptera*

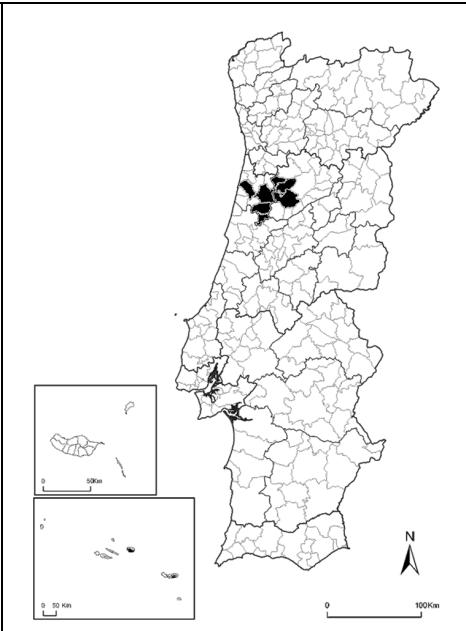


Fig. 54. Distribution map of *Pinnularia hilseana*

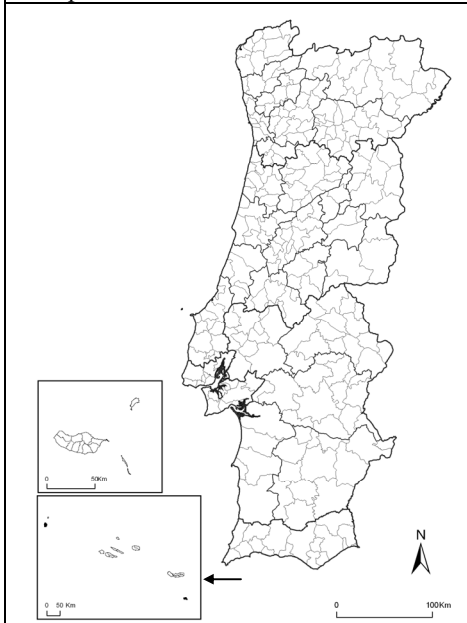


Fig. 55. Distribution map of *Pinnularia humilis*

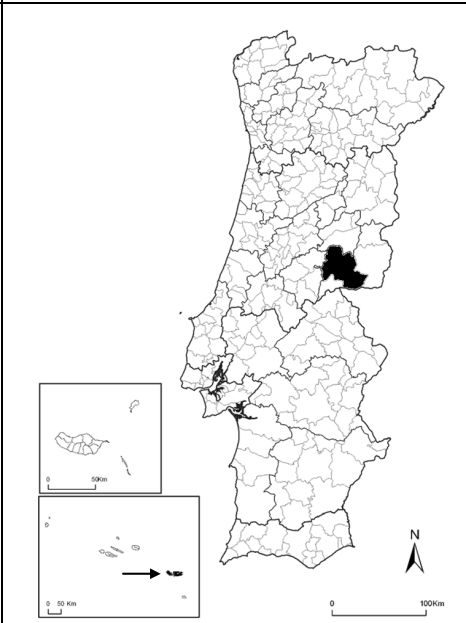


Fig. 56. Distribution map of *Pinnularia inflata*

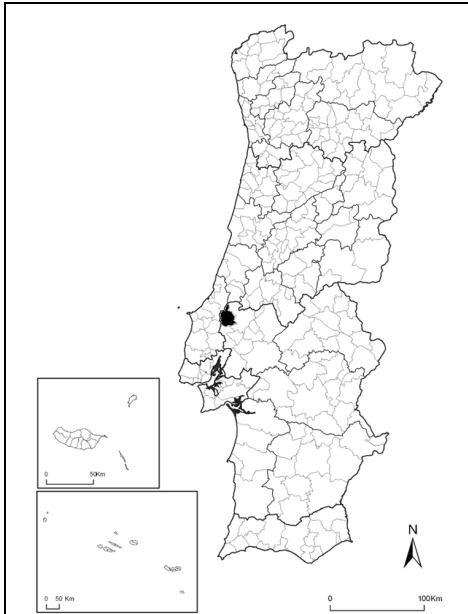


Fig. 57. Distribution map of *Pinnularia instabilis*

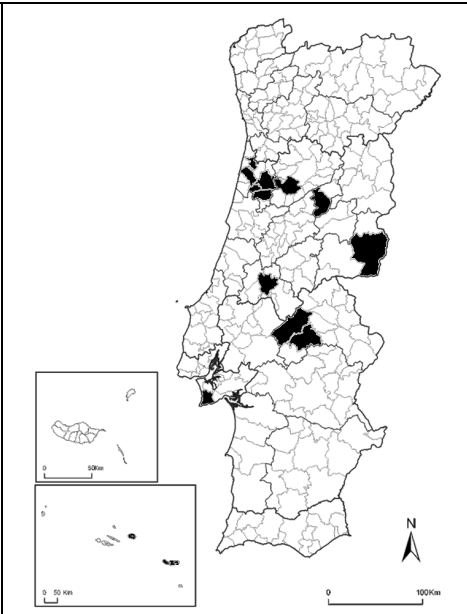


Fig. 58. Distribution map of *Pinnularia interrupta*

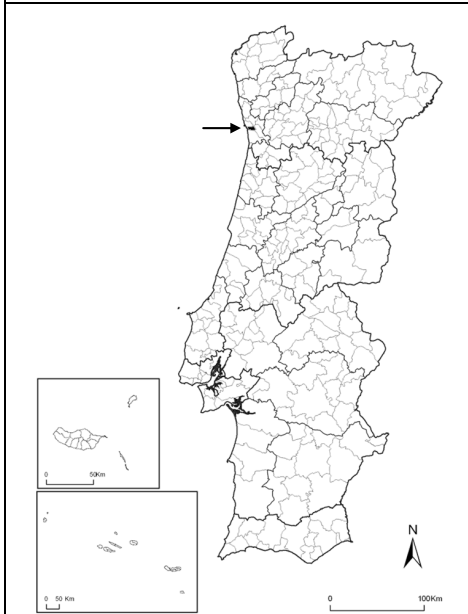


Fig. 59. Distribution map of *Pinnularia interrupta* f. *minutissima*

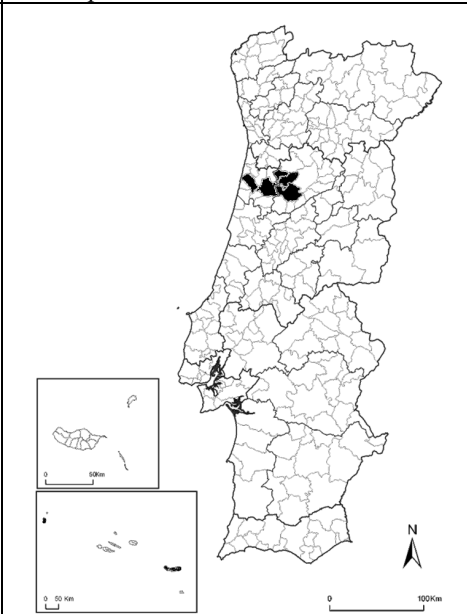


Fig. 60. Distribution map of *Pinnularia interruptiformis*

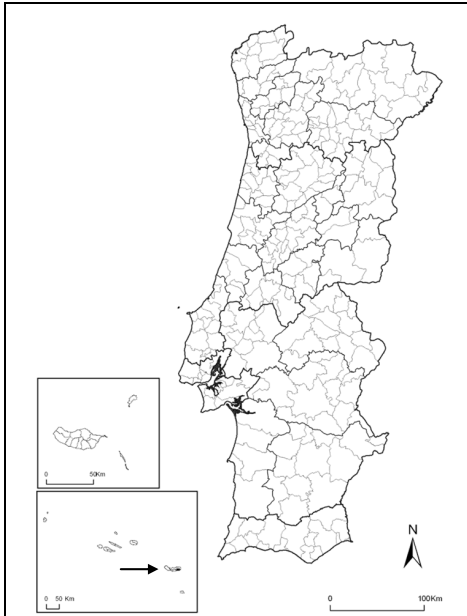


Fig. 61. Distribution map of *Pinnularia joculata*

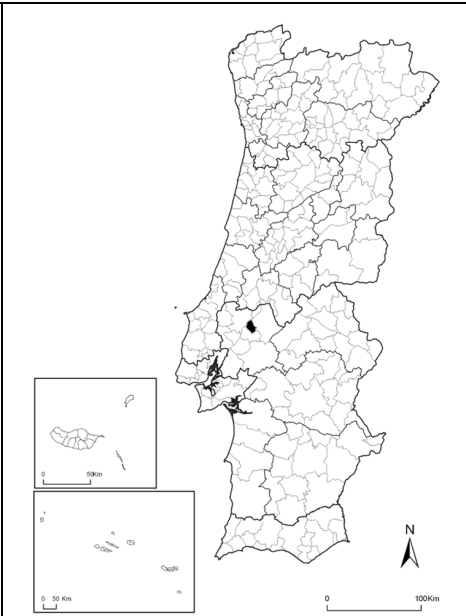


Fig. 62. Distribution map of *Pinnularia johnsonii*

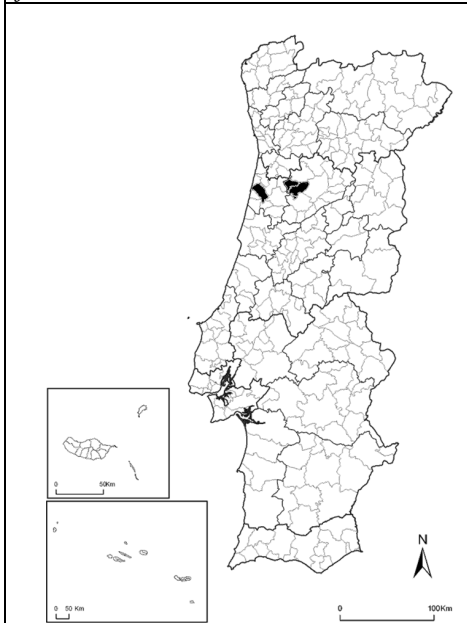


Fig. 63. Distribution map of *Pinnularia karelica*

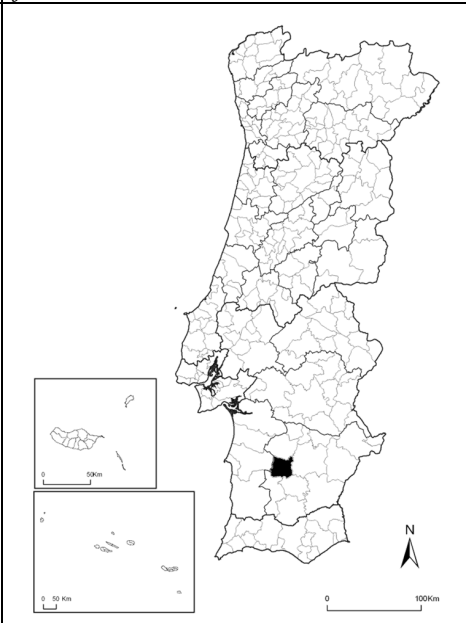


Fig. 64. Distribution map of *Pinnularia kuetzingii*

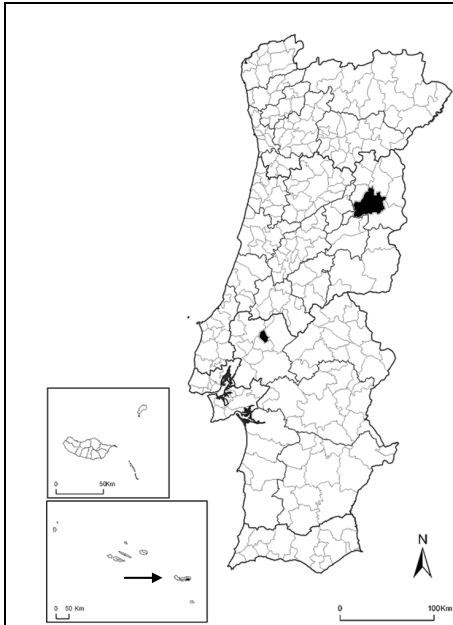


Fig. 65. Distribution map of *Pinnularia lata*

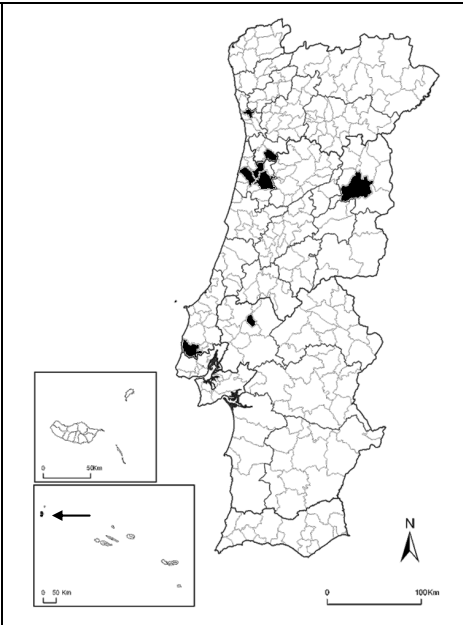


Fig. 66. Distribution map of *Pinnularia legumen*

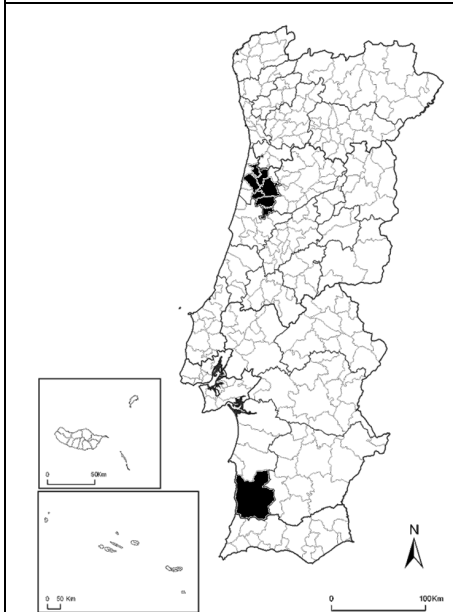


Fig. 67. Distribution map of *Pinnularia lundii*

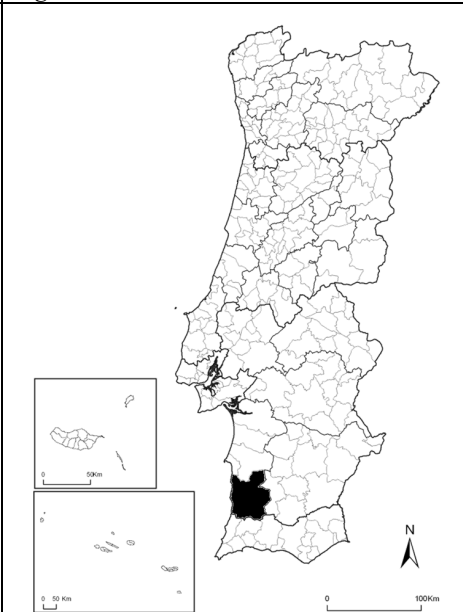


Fig. 68. Distribution map of *Pinnularia lundii* var. *linearis*

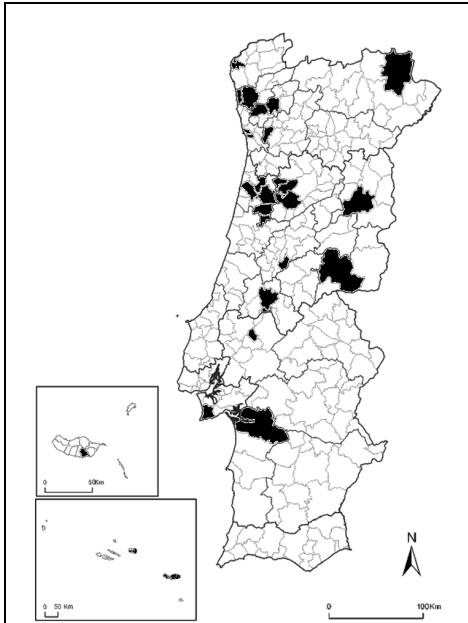


Fig. 69. Distribution map of *Pinnularia major*

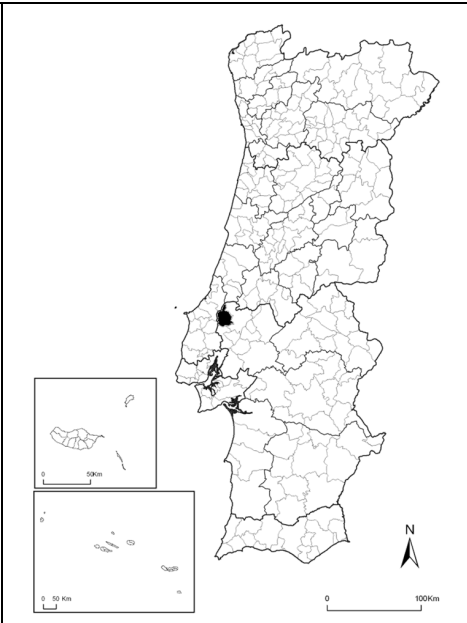


Fig. 70. Distribution map of *Pinnularia major* var. *subacuta*

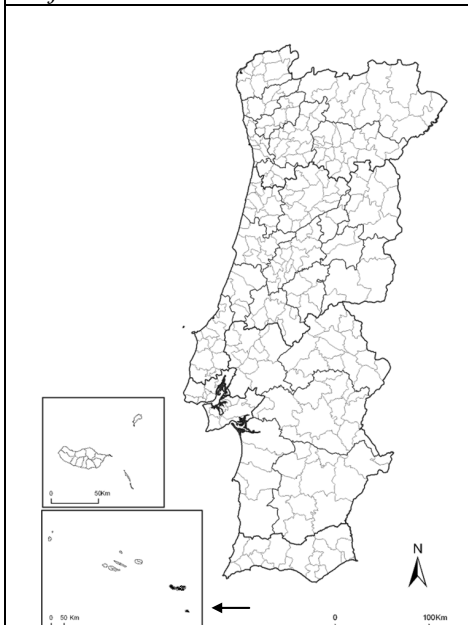


Fig. 71. Distribution map of *Pinnularia mayeri*

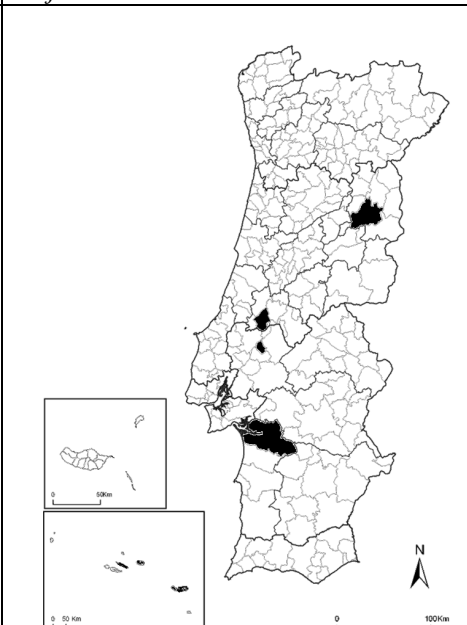


Fig. 72. Distribution map of *Pinnularia mesolepta*

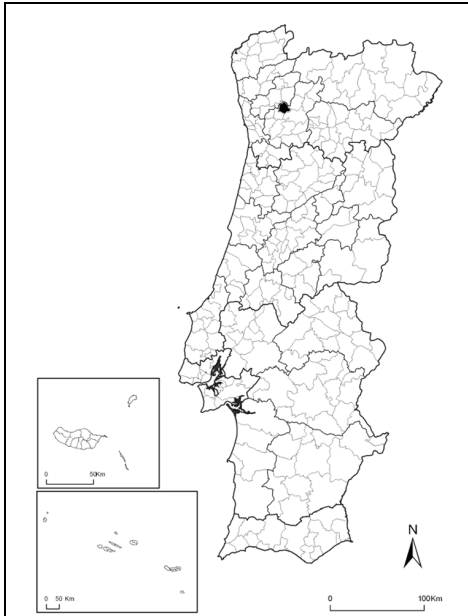


Fig. 73. Distribution map of *Pinnularia mesolepta* var. *producta*

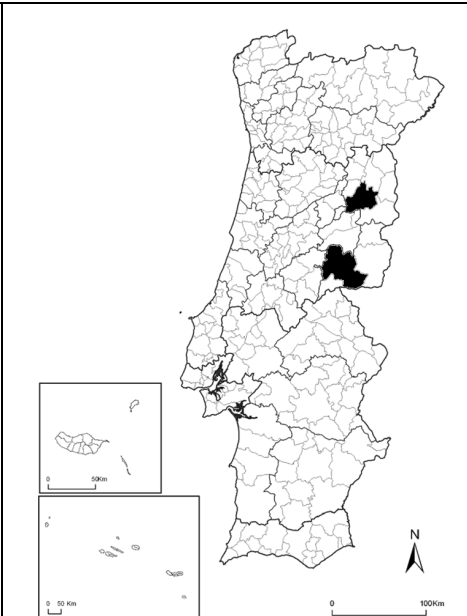


Fig. 74. Distribution map of *Pinnularia mesolepta* var. *termes*

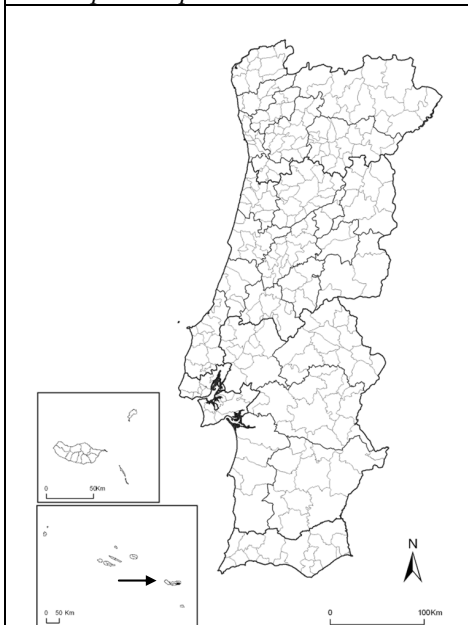


Fig. 75. Distribution map of *Pinnularia metzeltinii*

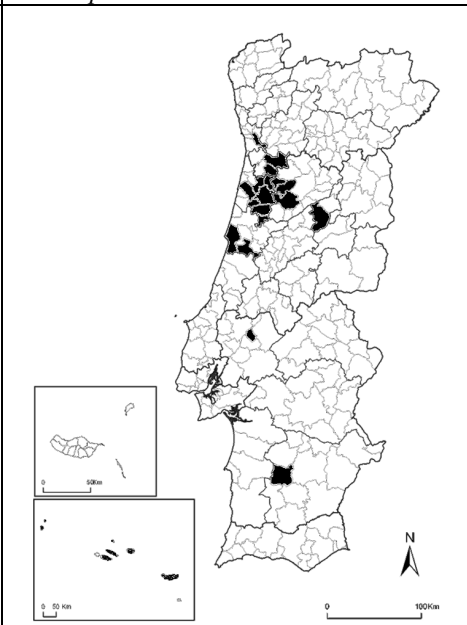


Fig. 76. Distribution map of *Pinnularia microstauron*

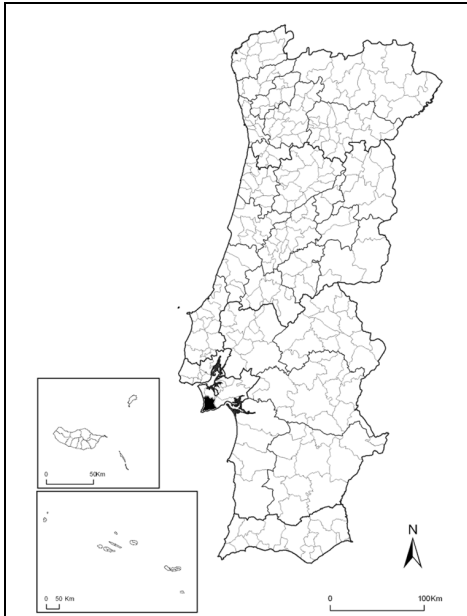


Fig. 77. Distribution map of *Pinnularia microstauron* var. *ambigua*

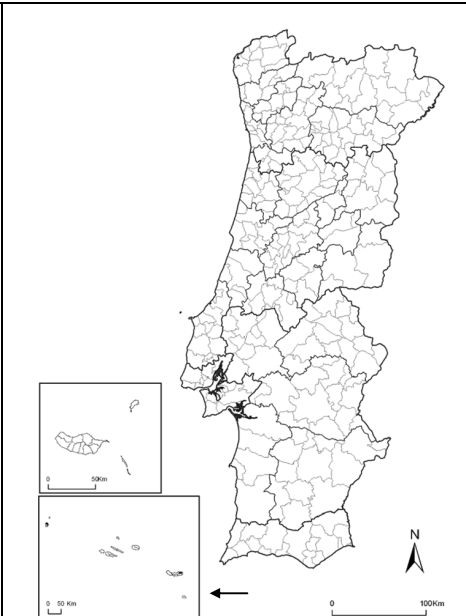


Fig. 78. Distribution map of *Pinnularia microstauron* f. *minutissima*

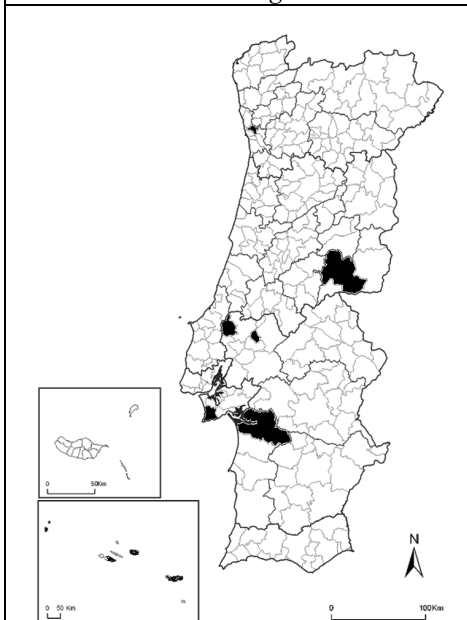


Fig. 79. Distribution map of *Pinnularia nobilis*

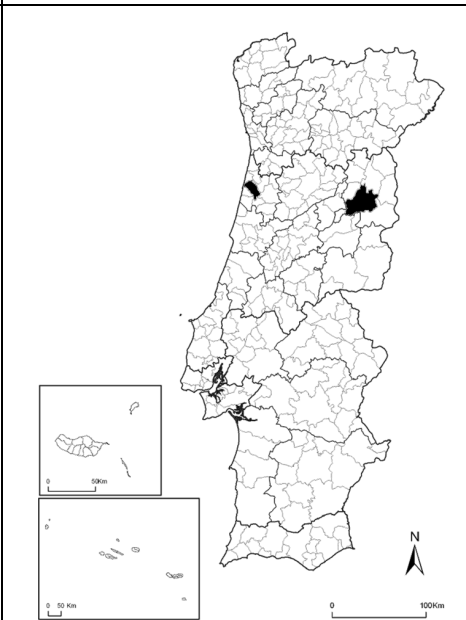


Fig. 80. Distribution map of *Pinnularia nodosa*

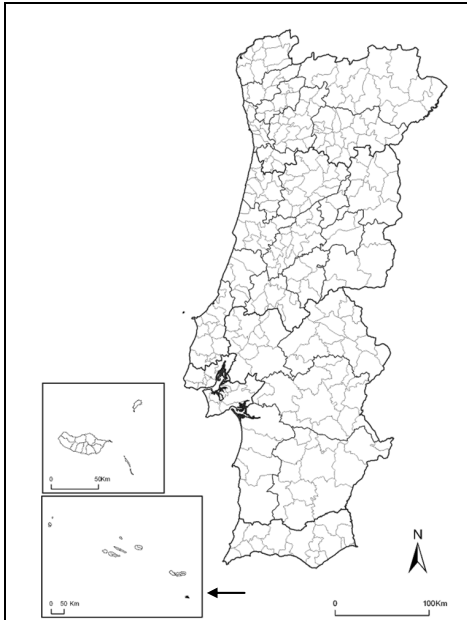


Fig. 81. Distribution map of *Pinnularia parva* var. *lagerstedtii* f. *interrupta*

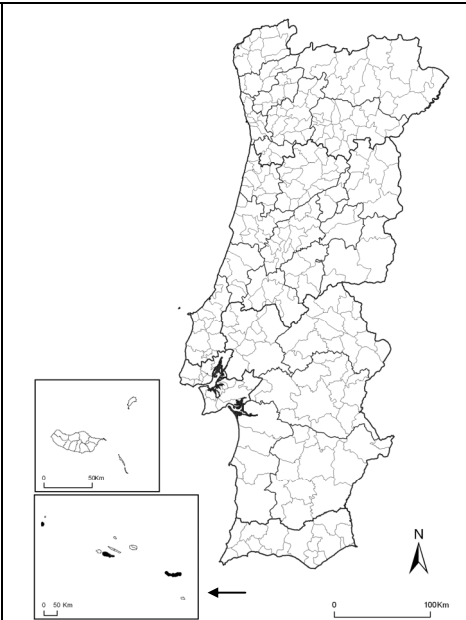


Fig. 82. Distribution map of *Pinnularia perirrorata*

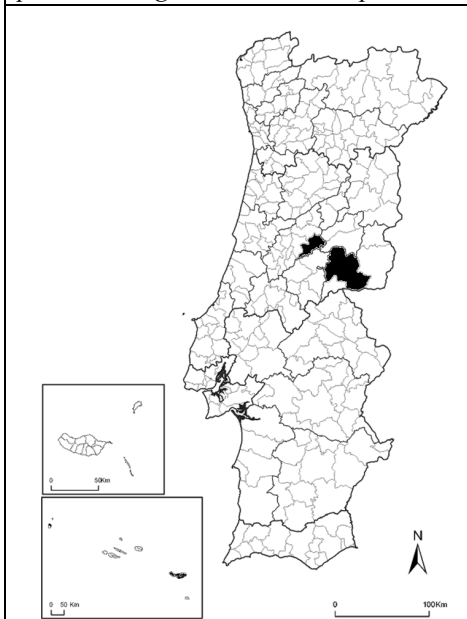


Fig. 83. Distribution map of *Pinnularia polyonca*

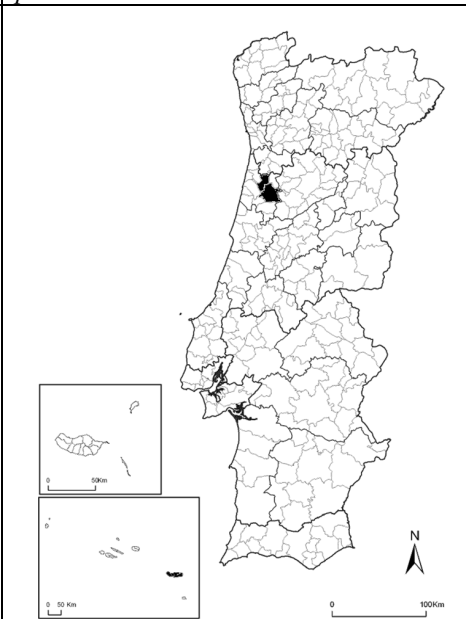


Fig. 84. Distribution map of *Pinnularia pseudogibba*

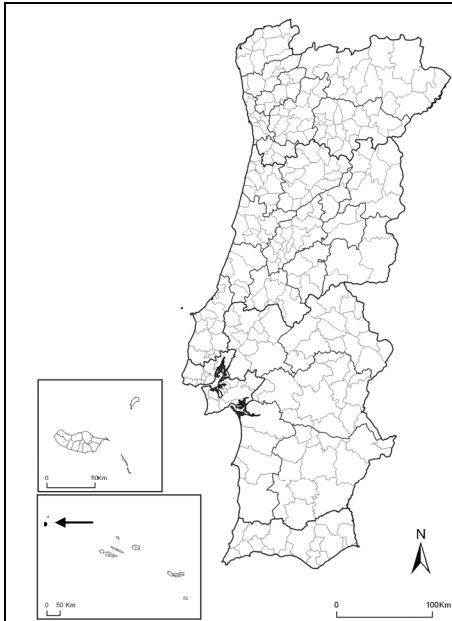


Fig. 85. Distribution map of *Pinnularia rhombarea*

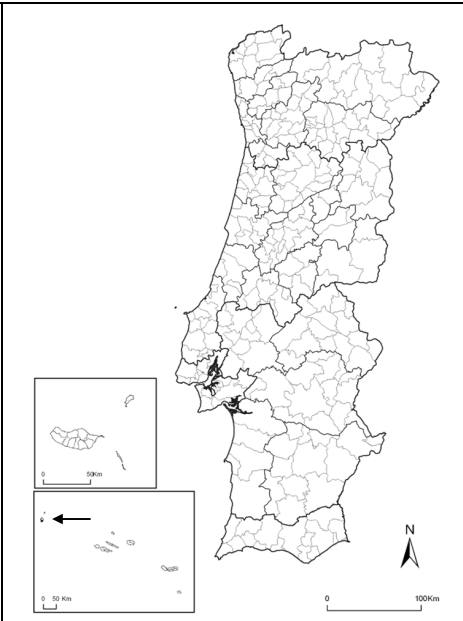


Fig. 86. Distribution map of *Pinnularia rhombarea* var. *biundulata*

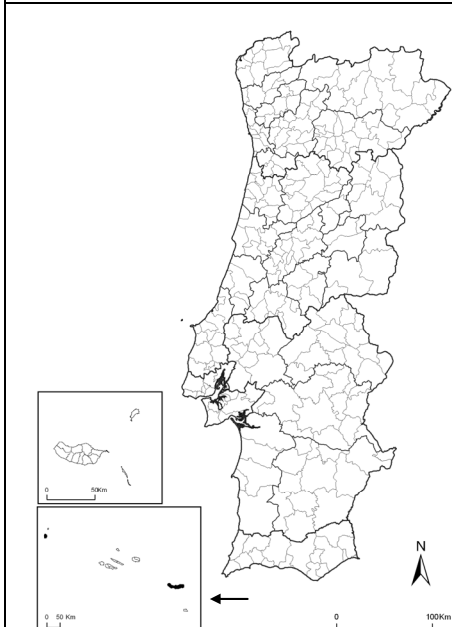


Fig. 87. Distribution map of *Pinnularia rhomboelliptica*

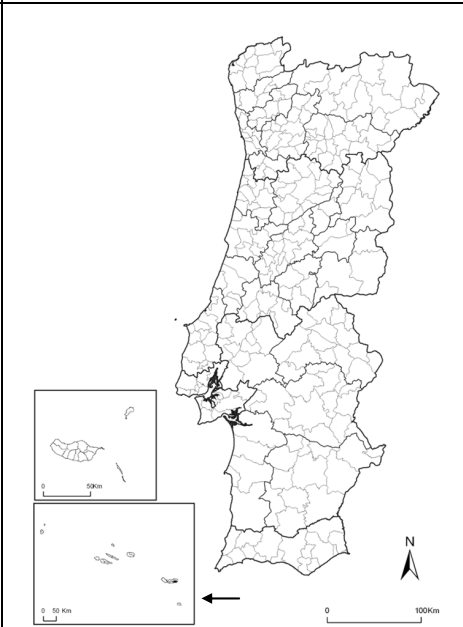


Fig. 88. Distribution map of *Pinnularia rivularis*

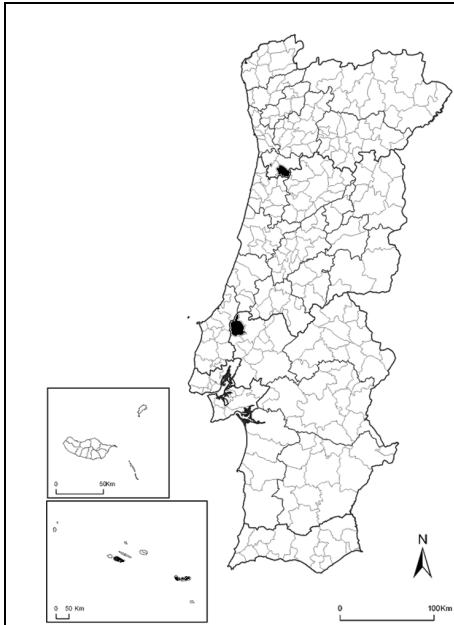


Fig. 89. Distribution map of *Pinnularia rupestris*

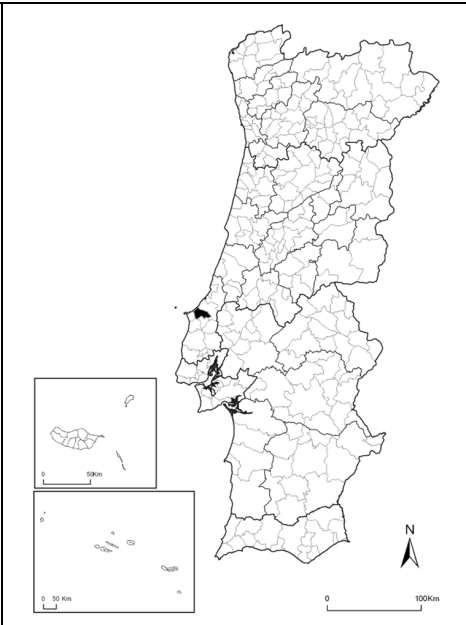


Fig. 90. Distribution map of *Pinnularia schroederi*

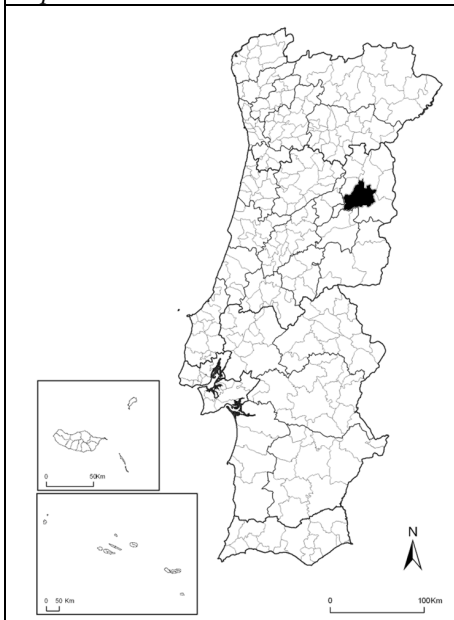


Fig. 91. Distribution map of *Pinnularia septentrionalis*

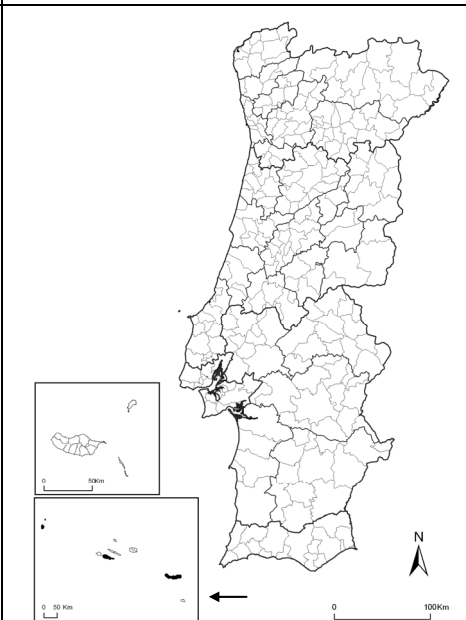


Fig. 92. Distribution map of *Pinnularia sinistra*

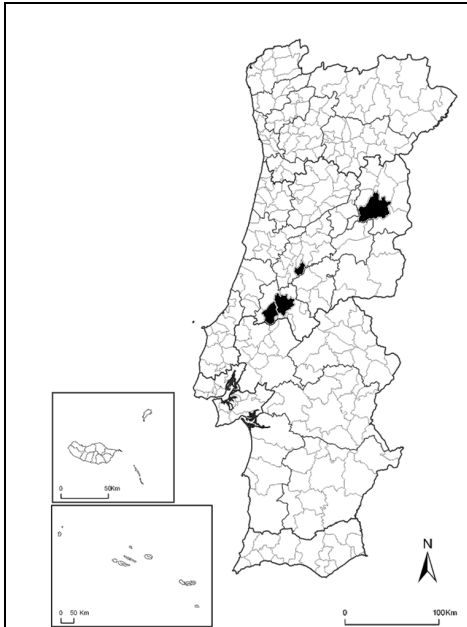


Fig. 93. Distribution map of *Pinnularia stauroptera*

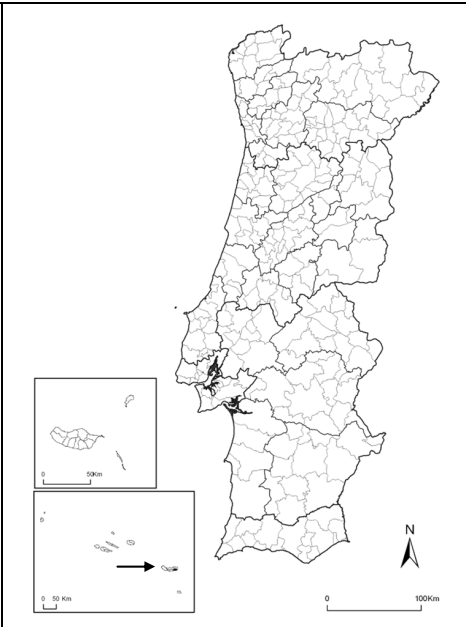


Fig. 94. Distribution map of *Pinnularia stauroptera* var. *interrupta*

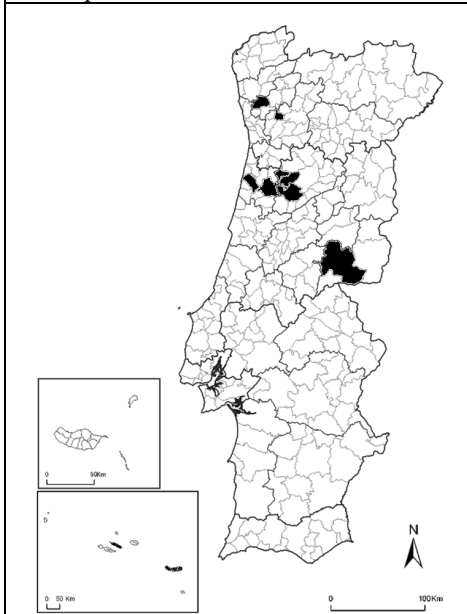


Fig. 95. Distribution map of *Pinnularia stomatophora*

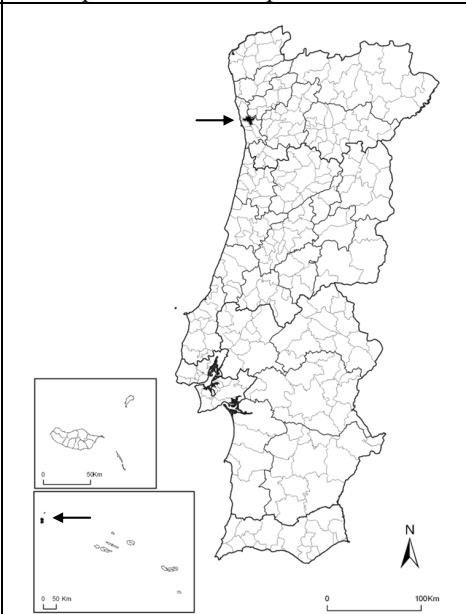


Fig. 96. Distribution map of *Pinnularia streptoraphe*

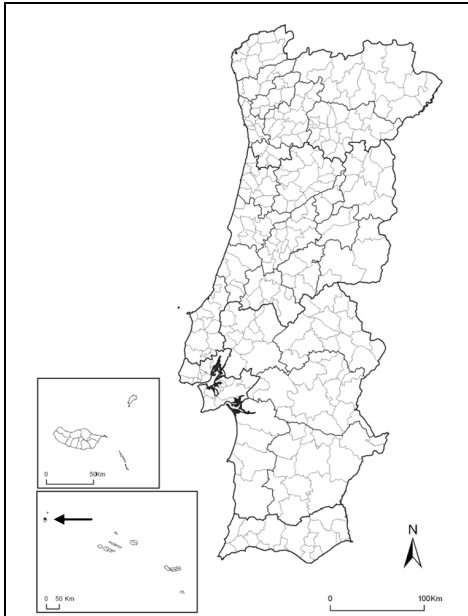


Fig. 97. Distribution map of *Pinnularia streptoraphe* f. *minor*

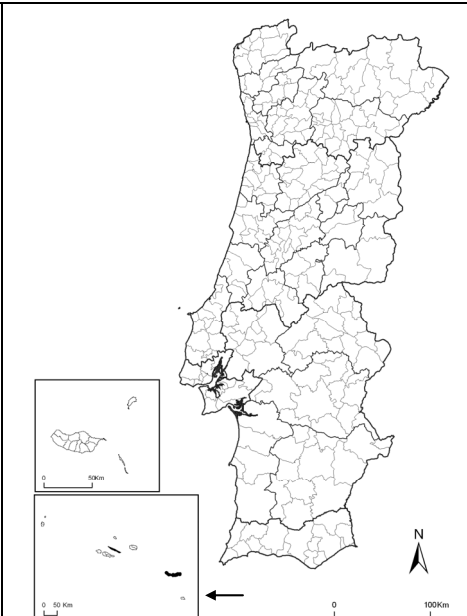


Fig. 98. Distribution map of *Pinnularia subbrevistriata*

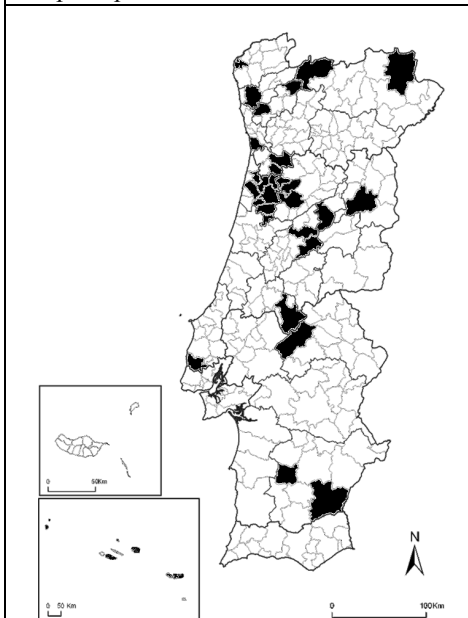


Fig. 99. Distribution map of *Pinnularia subcapitata*

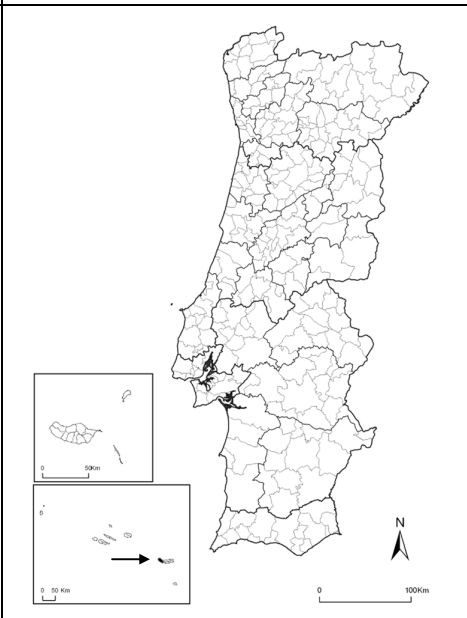


Fig. 100. Distribution map of *Pinnularia subcapitata* var. *appendiculata*

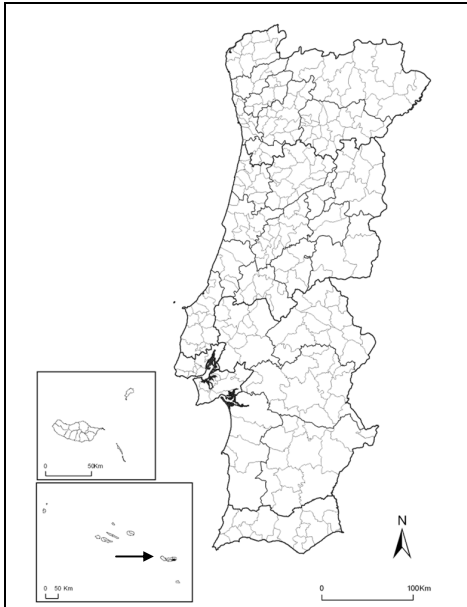


Fig. 101. Distribution map of *Pinnularia subcapitata* var. *azorica*

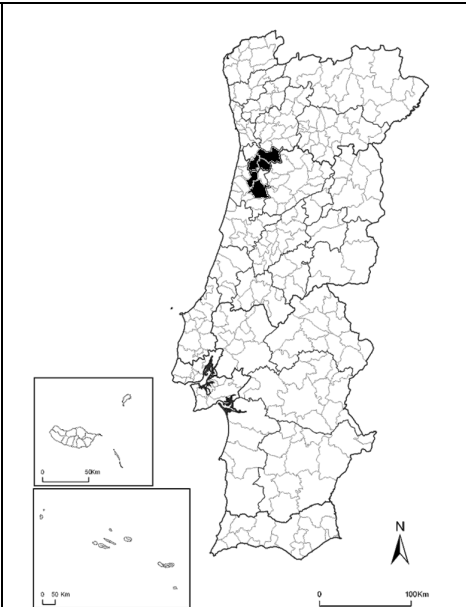


Fig. 102. Distribution map of *Pinnularia subcapitata* var. *elongata*

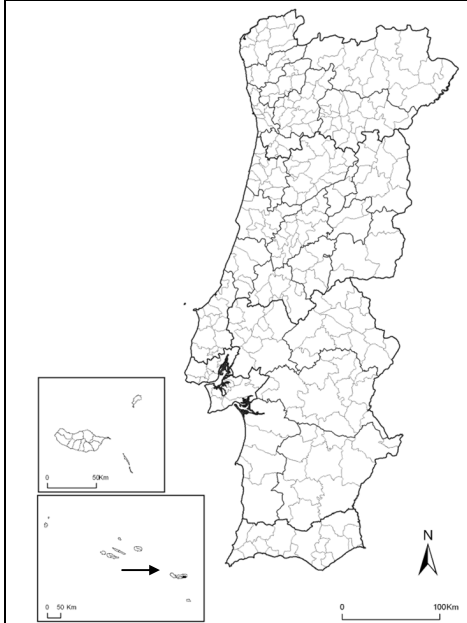


Fig. 103. Distribution map of *Pinnularia subcapitata* var. *hilseana* f. *undulata*

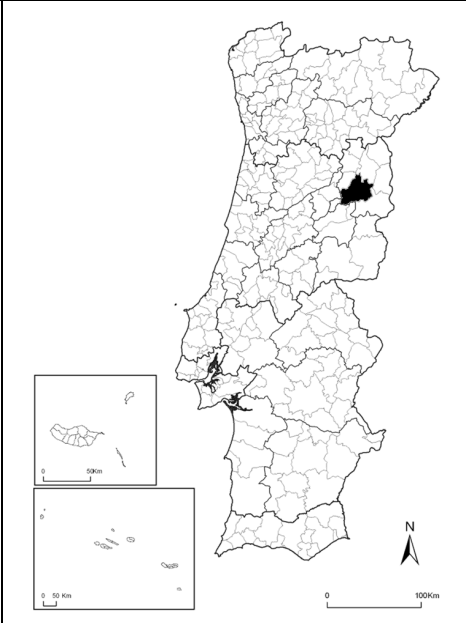


Fig. 104. Distribution map of *Pinnularia subcapitata* var. *hybrida*

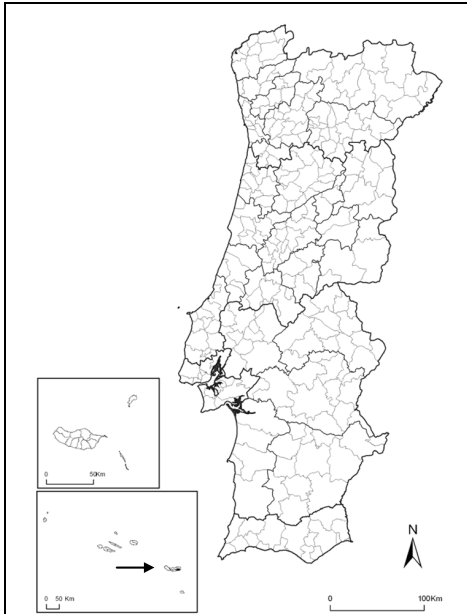


Fig. 105. Distribution map of *Pinnularia subcapitata* var. *paucistriata*

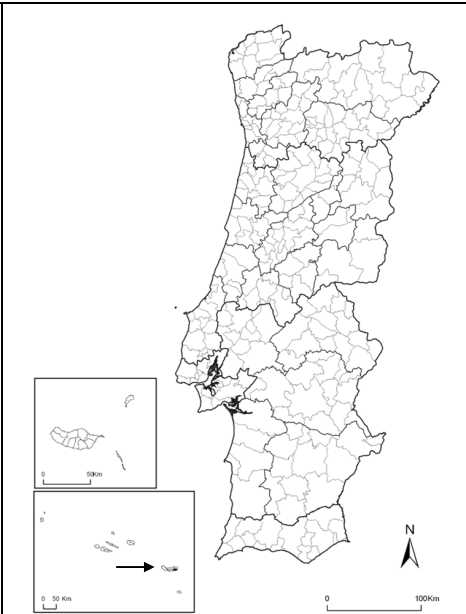


Fig. 106. Distribution map of *Pinnularia subcapitata* var. *paucistriata* f. *lata*

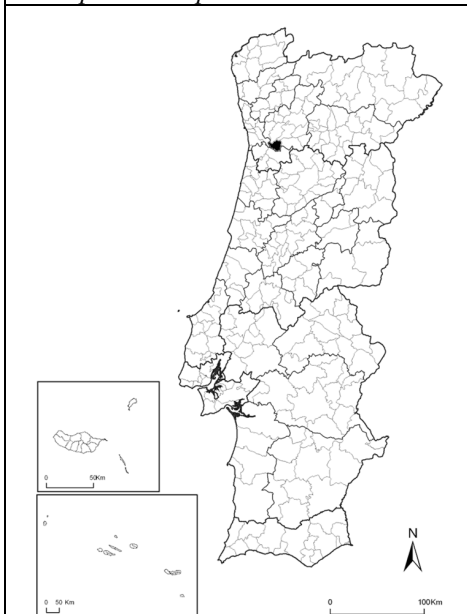


Fig. 107. Distribution map of *Pinnularia subcapitata* var. *stauroneiformis*

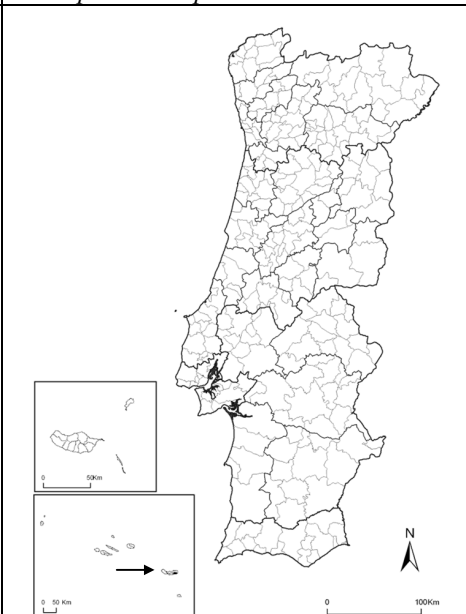


Fig. 108. Distribution map of *Pinnularia subcapitata* var. *sublanceolata* f. *typica*

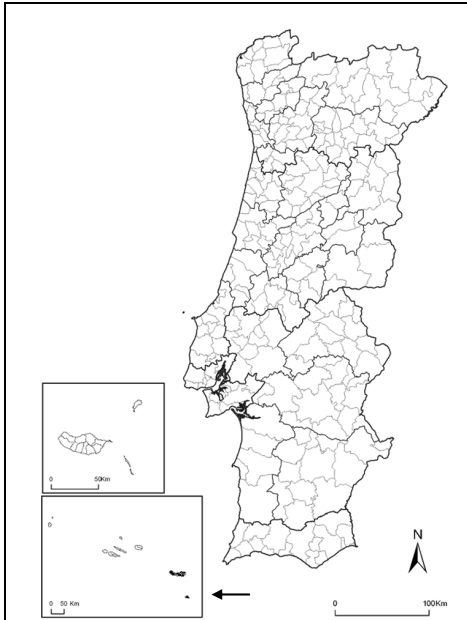


Fig. 109. Distribution map of *Pinnularia subcommutata*

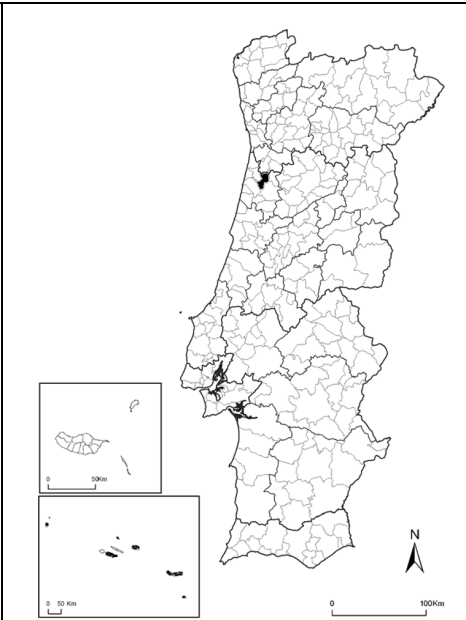


Fig. 110. Distribution map of *Pinnularia subgibba*

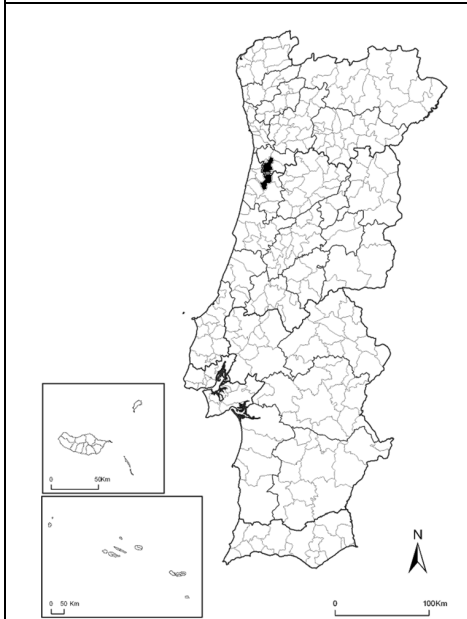


Fig. 111. Distribution map of *Pinnularia subgibba* var. *hustedtii*

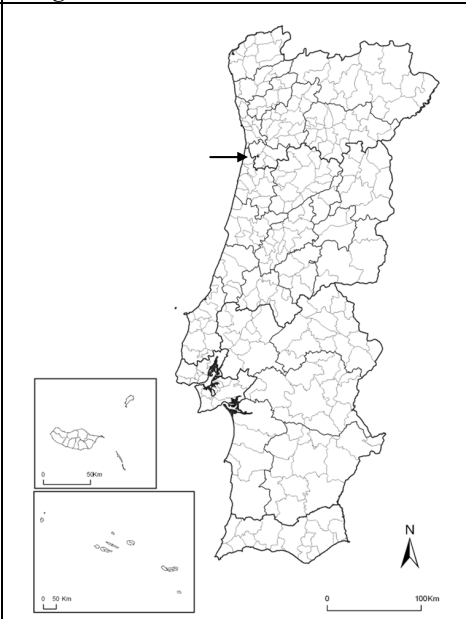


Fig. 112. Distribution map of *Pinnularia subrostrata*

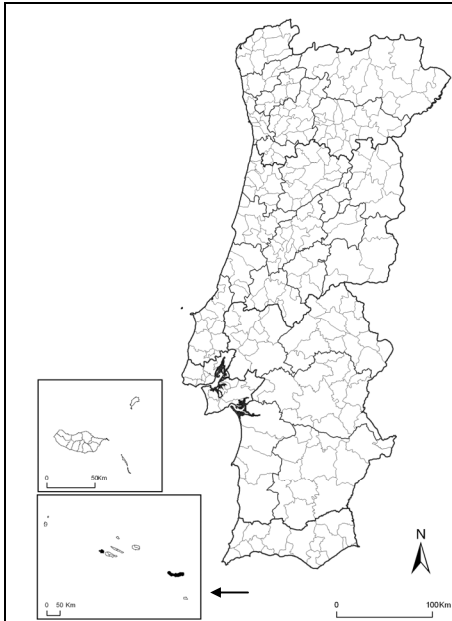


Fig. 113. Distribution map of *Pinnularia subrupestris*

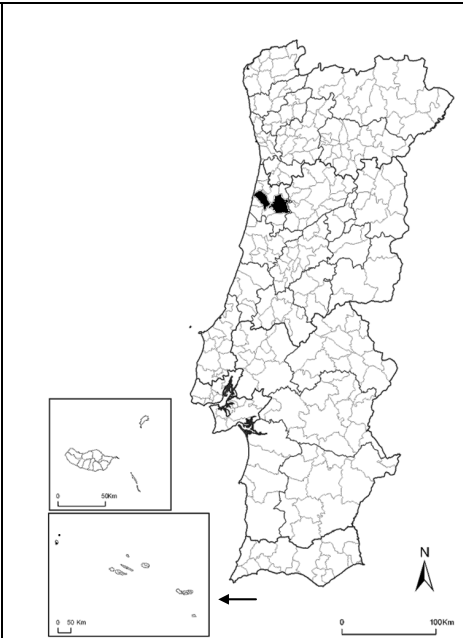


Fig. 114. Distribution map of *Pinnularia subsolaris*

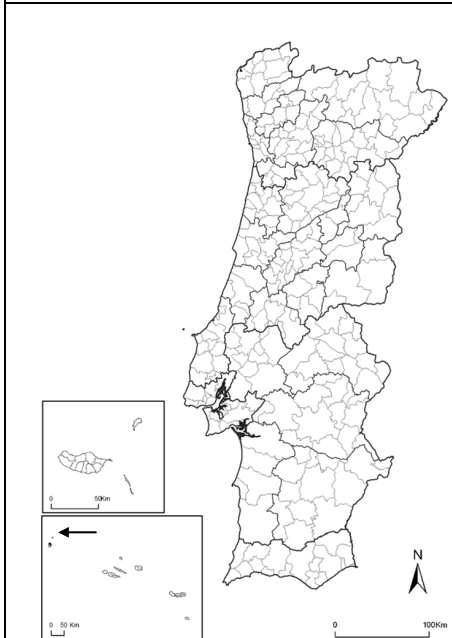


Fig. 115. Distribution map of *Pinnularia subsolaris* f. *mutabilis*

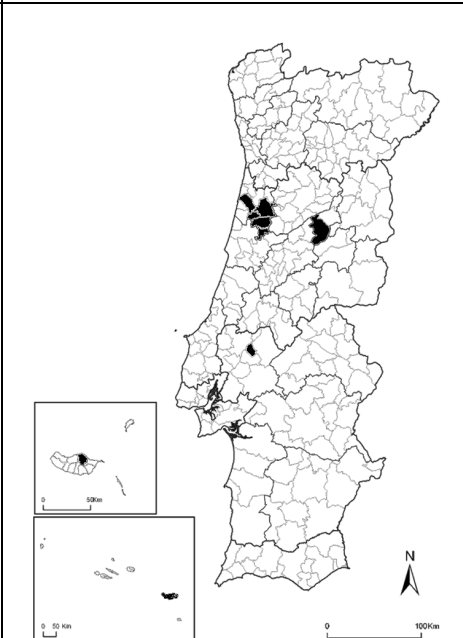


Fig. 116. Distribution map of *Pinnularia sudetica*

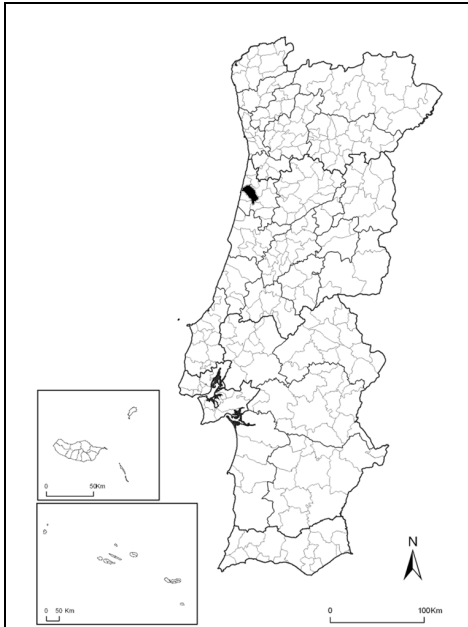


Fig. 117. Distribution map of *Pinnularia superdivergentissima*

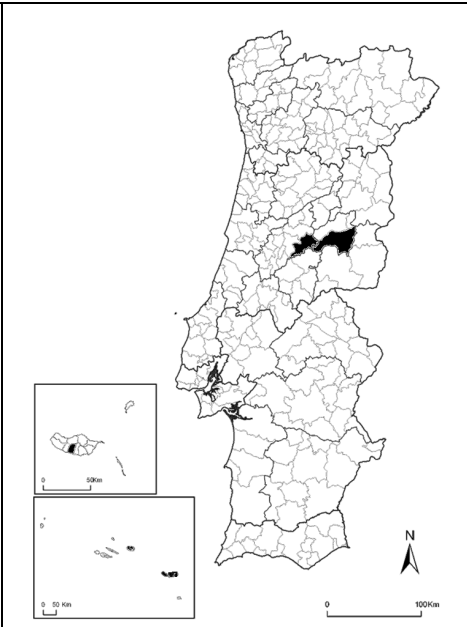


Fig. 118. Distribution map of *Pinnularia tabellaria*

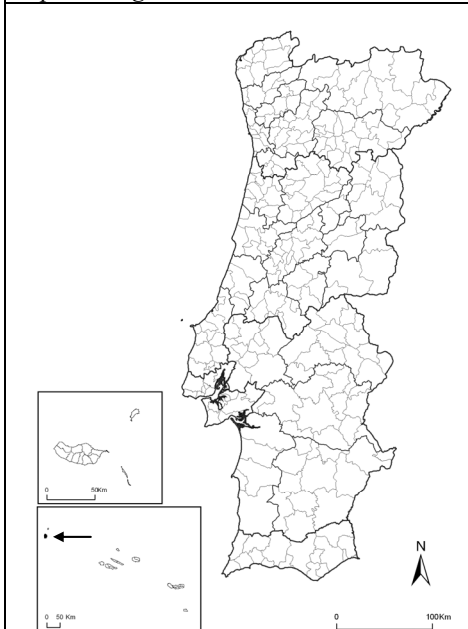


Fig. 119. Distribution map of *Pinnularia tirolensis*

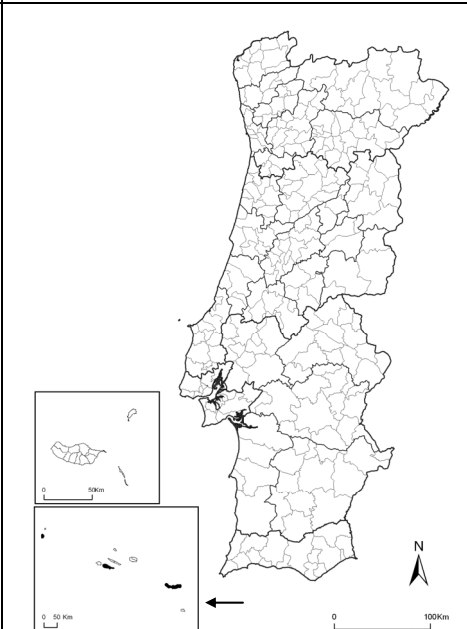


Fig. 120. Distribution map of *Pinnularia viridiformis*

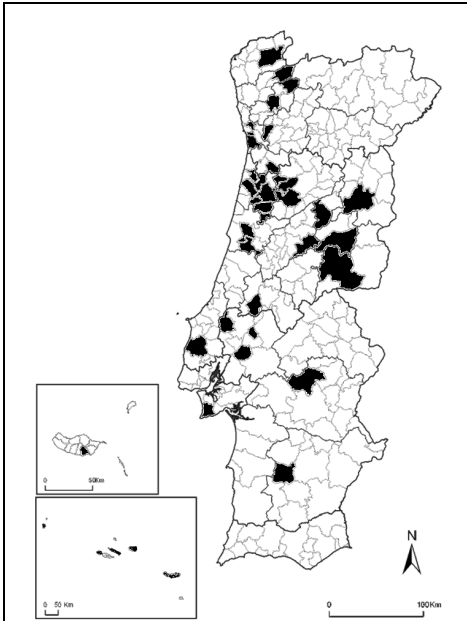


Fig. 121. Distribution map of *Pinnularia viridis*

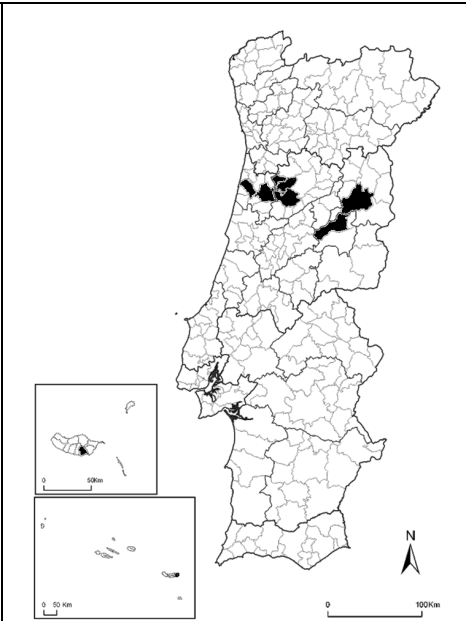


Fig. 122. Distribution map of *Pinnularia viridis* var. *commutata*

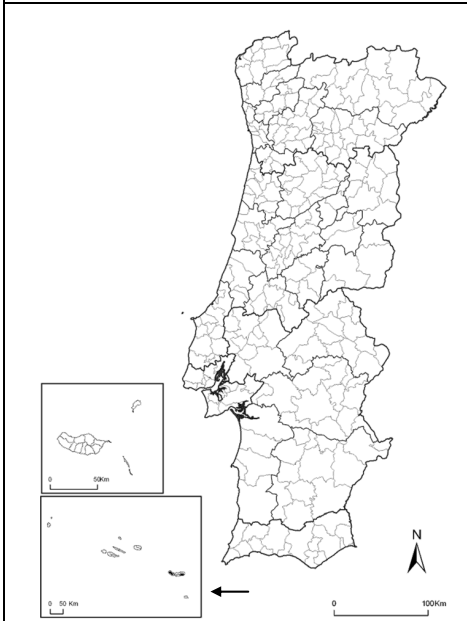


Fig. 123. Distribution map of *Pinnularia viridis* var. *fallax*

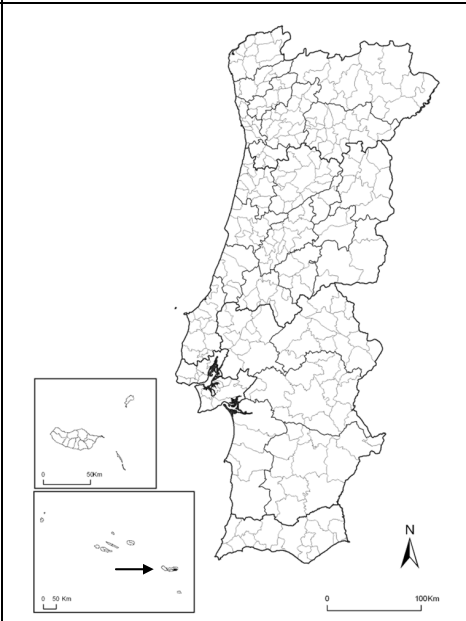


Fig. 124. Distribution map of *Pinnularia viridis* var. *intermedia*

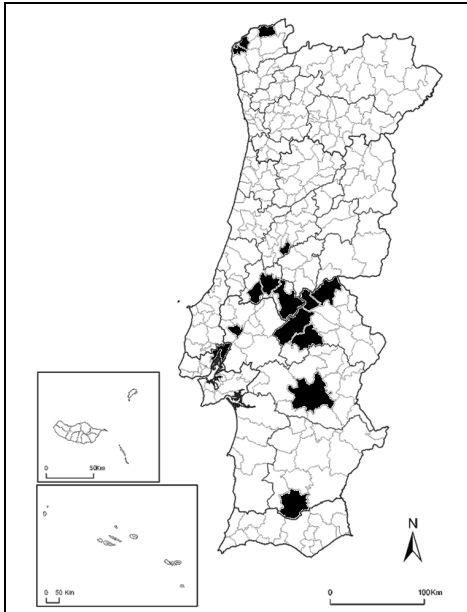


Fig. 125. Distribution map of *Pinnularia* sp.

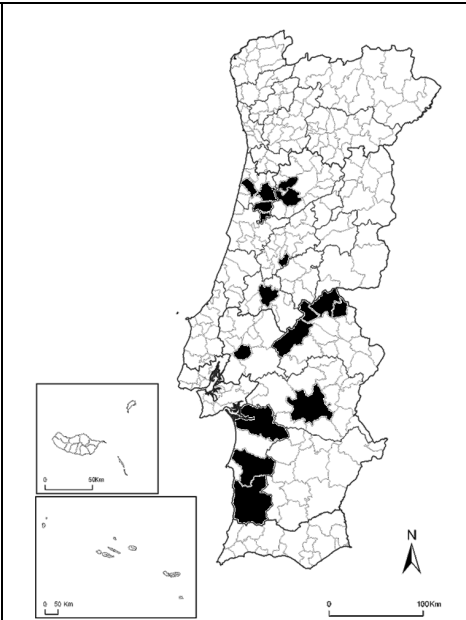


Fig. 126. Distribution map of *Placoneis anglica*

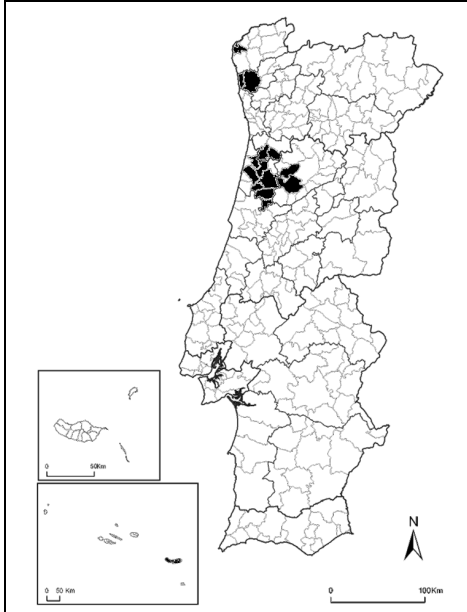


Fig. 127. Distribution map of *Placoneis clementis*

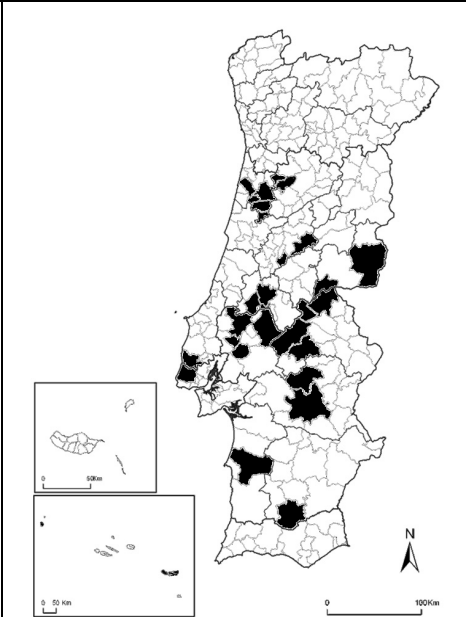


Fig. 128. Distribution map of *Placoneis dicephala*

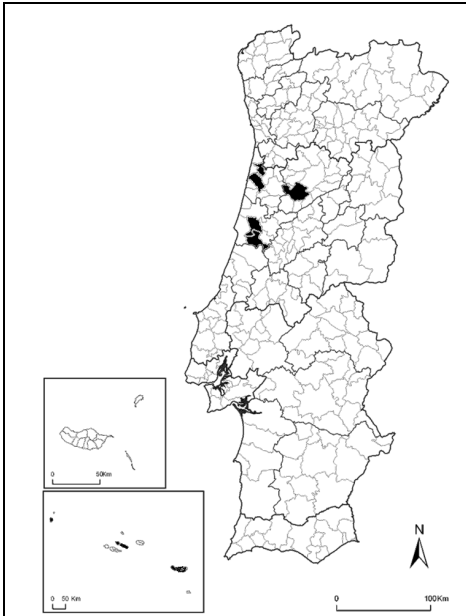


Fig. 129. Distribution map of *Placoneis elginensis*

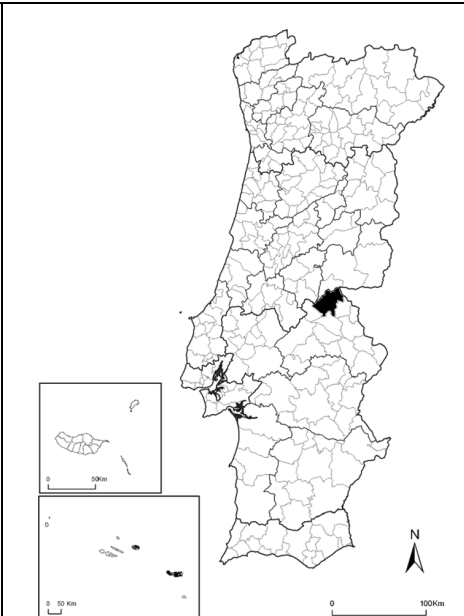


Fig. 130. Distribution map of *Placoneis exigua*

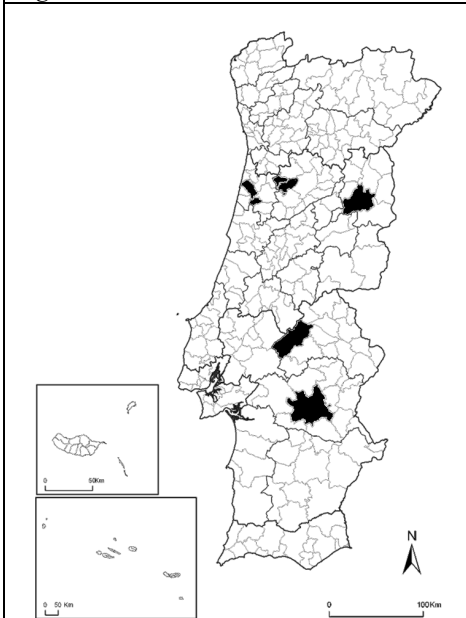


Fig. 131. Distribution map of *Placoneis gastrum*

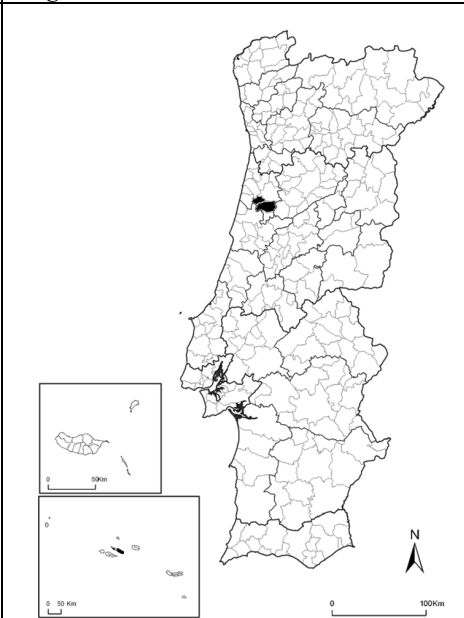


Fig. 132. Distribution map of *Placoneis neglecta*

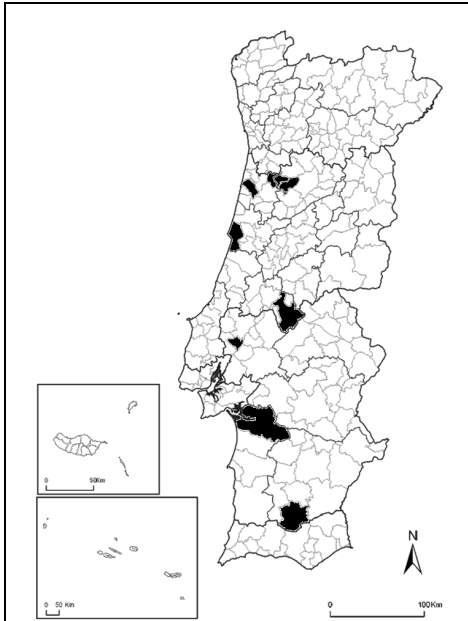


Fig. 133. Distribution map of *Placoneis placentula*

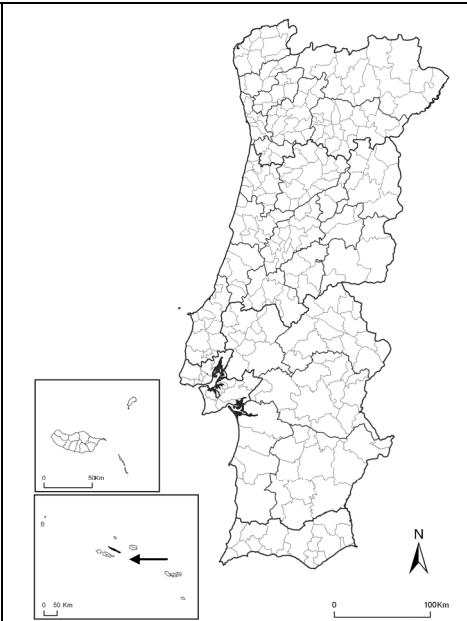


Fig. 134. Distribution map of *Planothidium calcar*

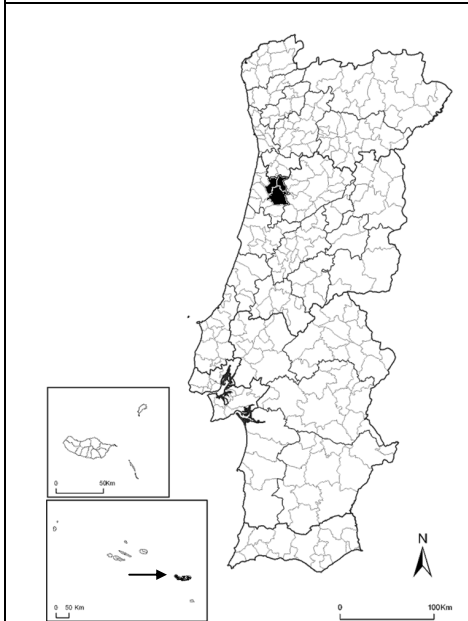


Fig. 135. Distribution map of *Planothidium dauyi*

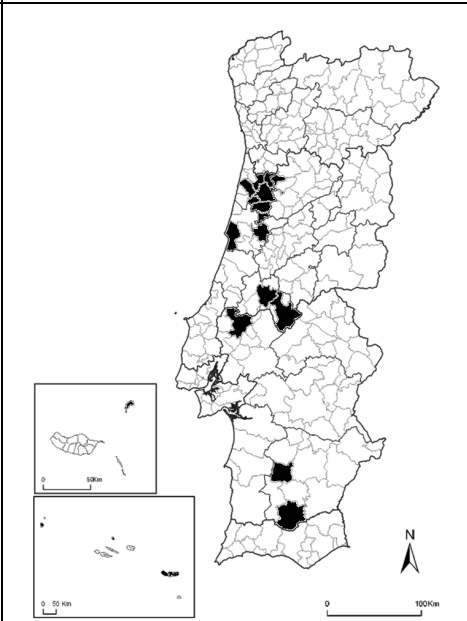


Fig. 136. Distribution map of *Planothidium delicatulum*

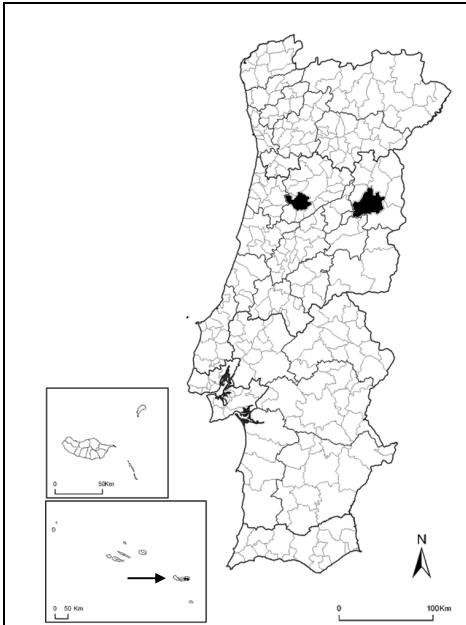


Fig. 137. Distribution map of *Planothidium dubium*

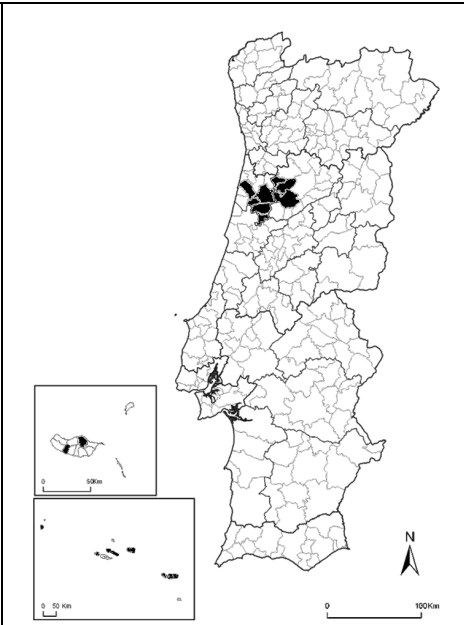


Fig. 138. Distribution map of *Planothidium ellipticum*

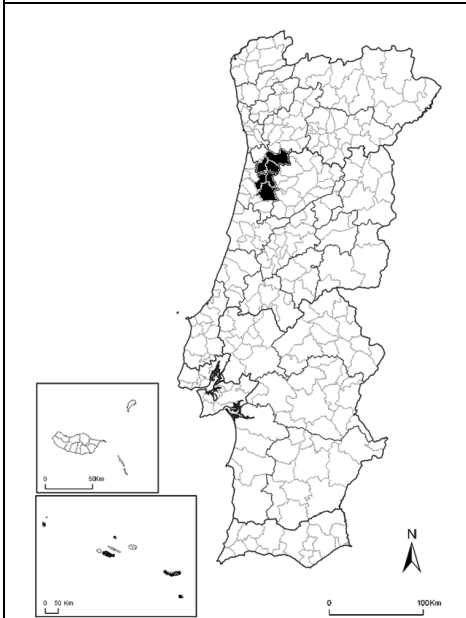


Fig. 139. Distribution map of *Planothidium frequentissimum*

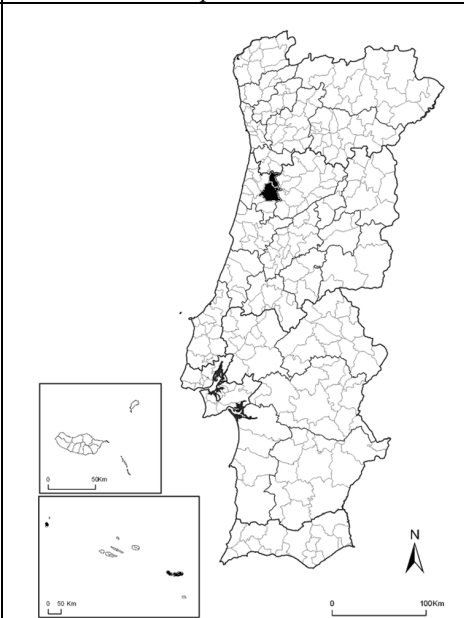


Fig. 140. Distribution map of *Planothidium granum*

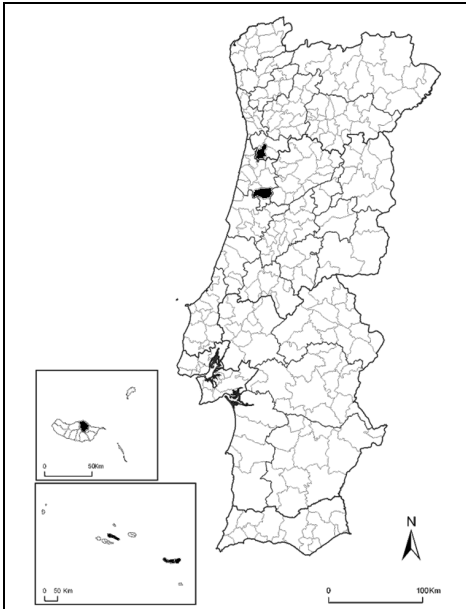


Fig. 141. Distribution map of *Planothidium hauckianum*

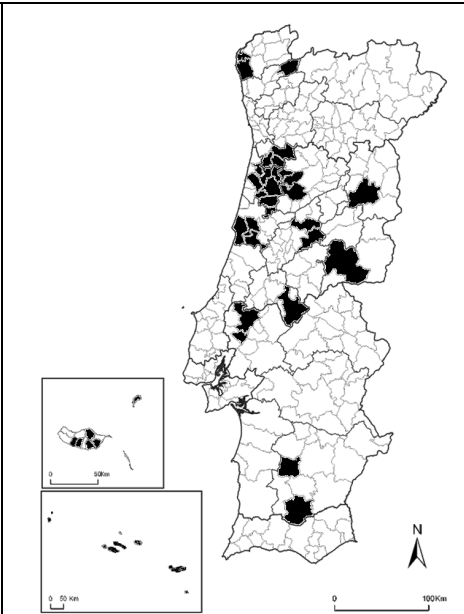


Fig. 142. Distribution map of *Planothidium lanceolatum*

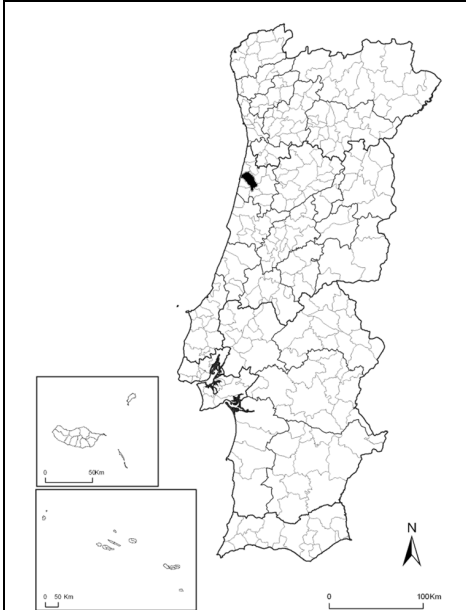


Fig. 143. Distribution map of *Planothidium peragalloi*

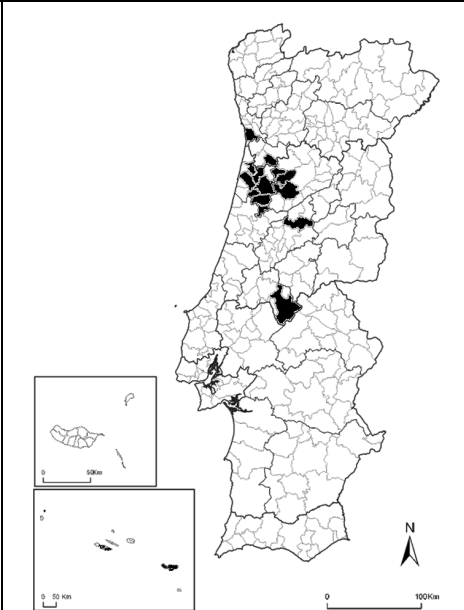


Fig. 144. Distribution map of *Planothidium rostratum*

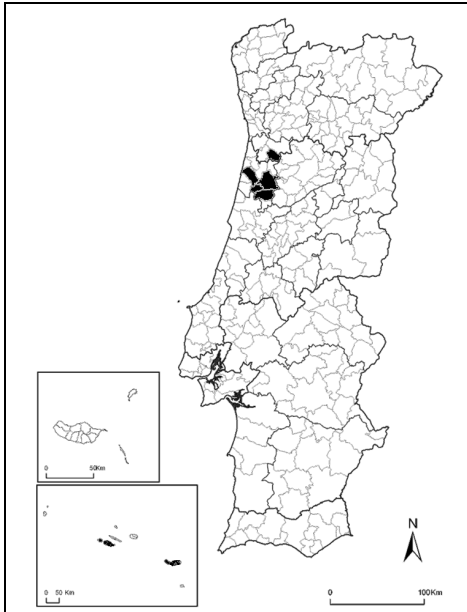


Fig. 145. Distribution map of *Platessa conspicua*

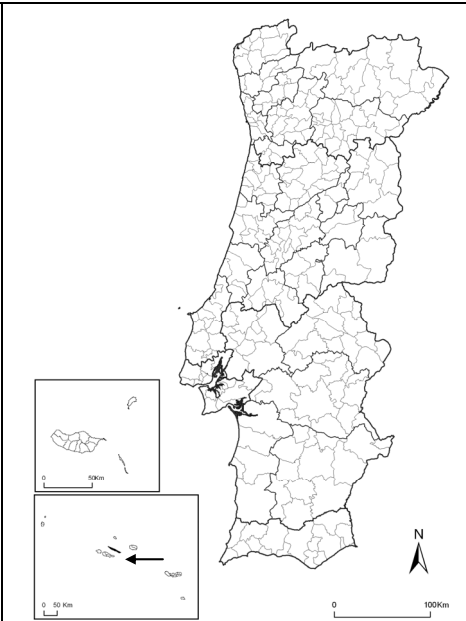


Fig. 146. Distribution map of *Platessa hustedtii*

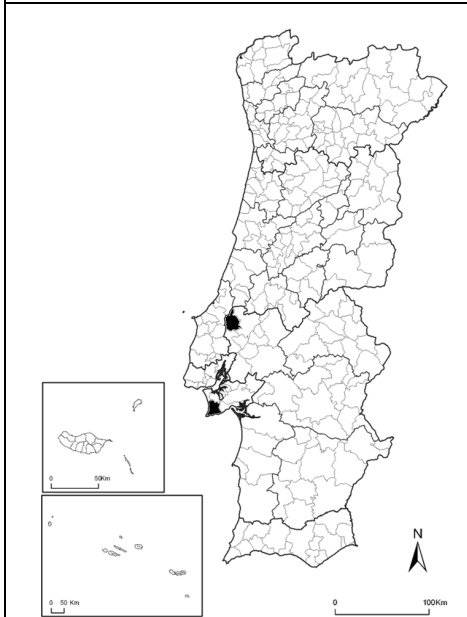


Fig. 147. Distribution map of *Pleurosigma angulatum*

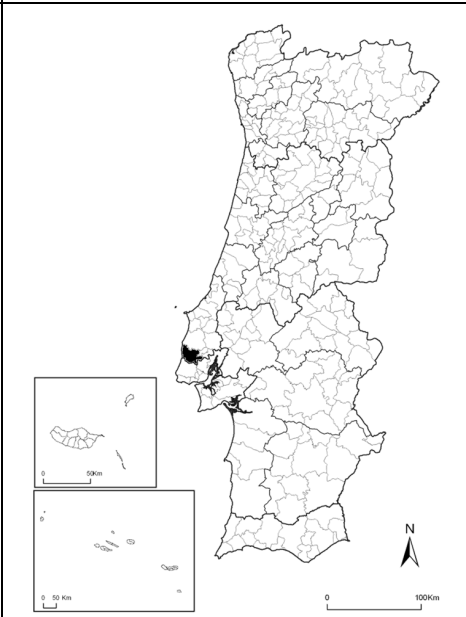


Fig. 148. Distribution map of *Pleurosigma spencerii* var. *smithii*

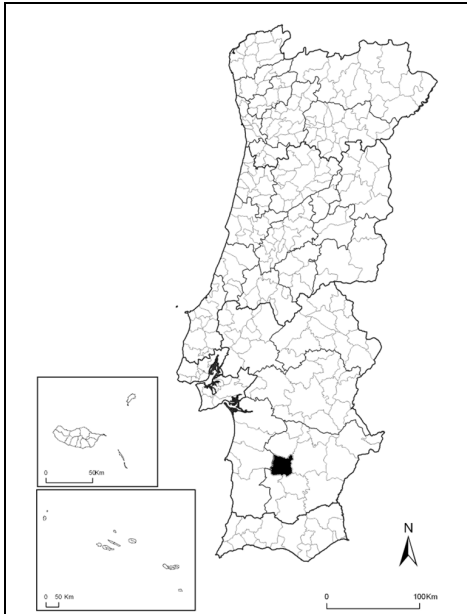


Fig. 149. Distribution map of *Pleurosigma spencerii* var. *splendida*

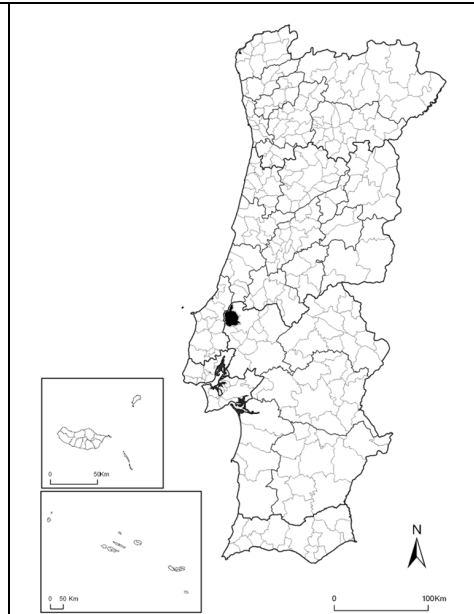


Fig. 150. Distribution map of *Pleurosigma strigosum*

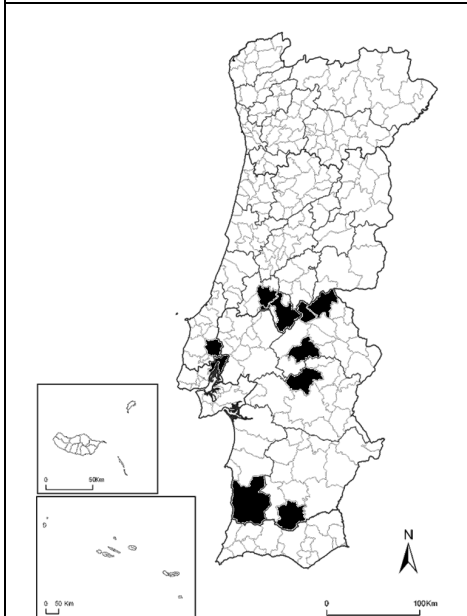


Fig. 151. Distribution map of *Pleurosigma* sp.

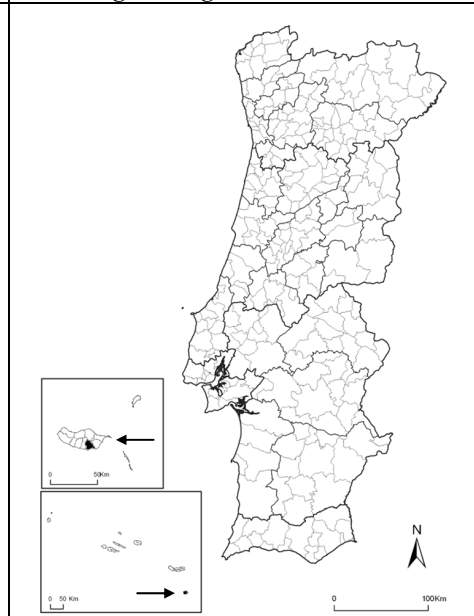


Fig. 152. Distribution map of *Pleurosira laevis*

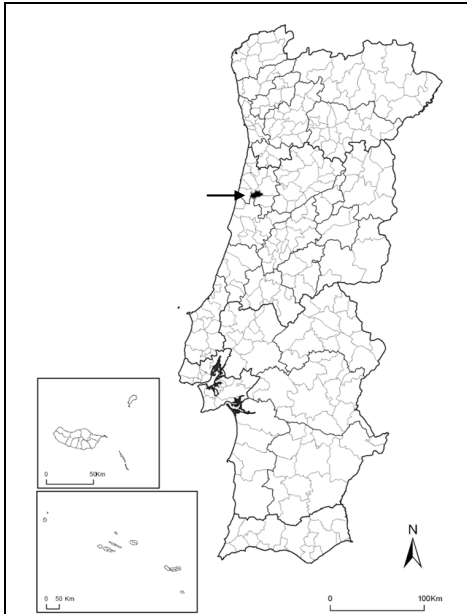


Fig. 153. Distribution map of *Prestauroneis integra*

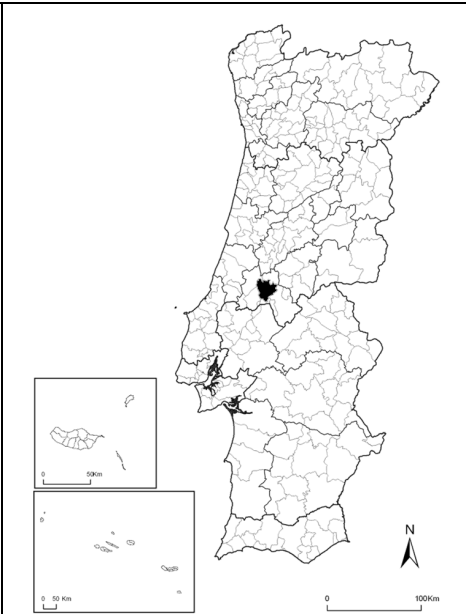


Fig. 154. Distribution map of *Psammodictyon mediterraneum*

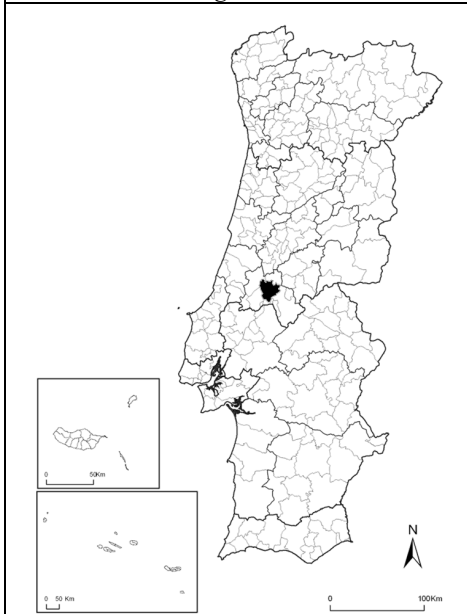


Fig. 155. Distribution map of *Psammosynedra closterioides*

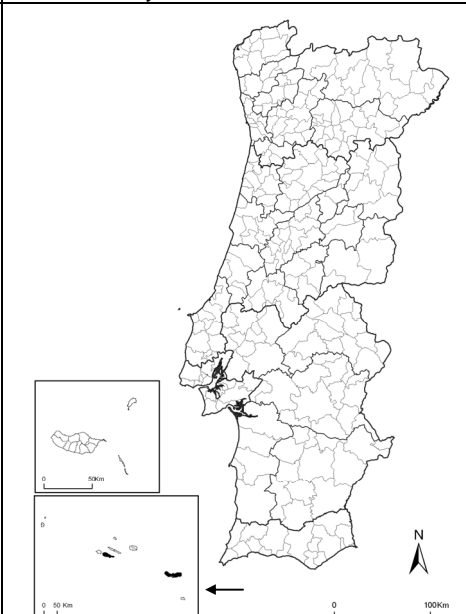


Fig. 156. Distribution map of *Psammothidium altaicum*

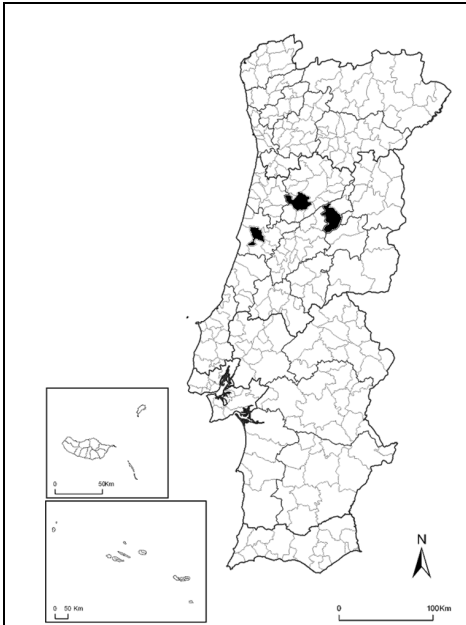


Fig. 157. Distribution map of *Psammothidium chlidanos*

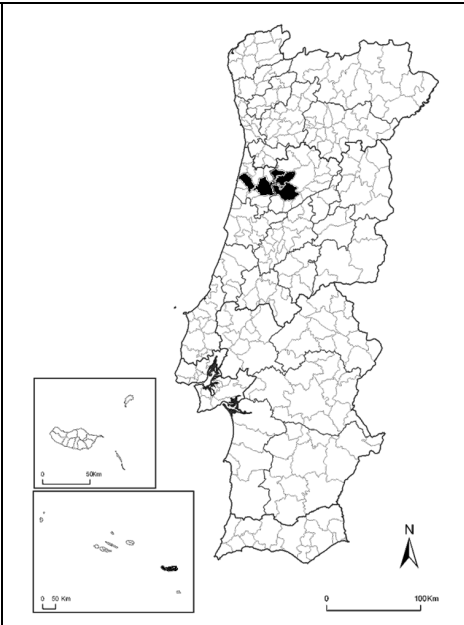


Fig. 158. Distribution map of *Psammothidium kryophilum*

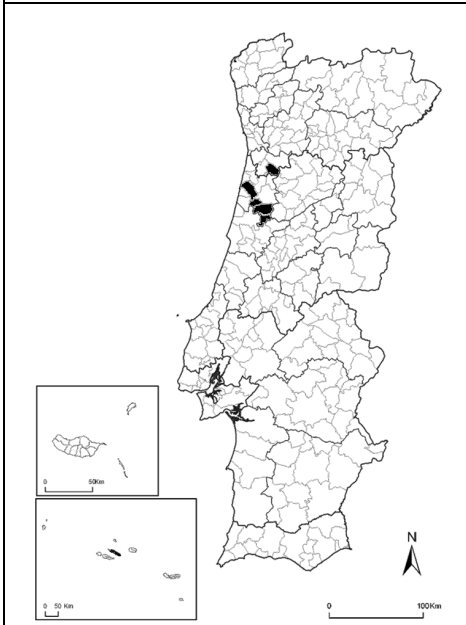


Fig. 159. Distribution map of *Psammothidium marginulatum*

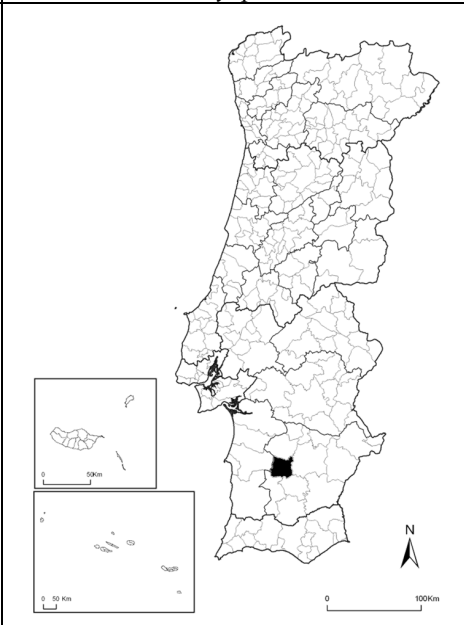


Fig. 160. Distribution map of *Psammothidium semiapertum*

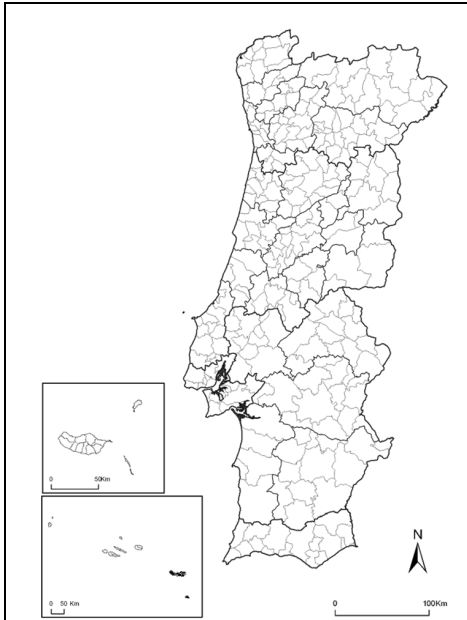


Fig. 161. Distribution map of *Psammothidium ventrale*

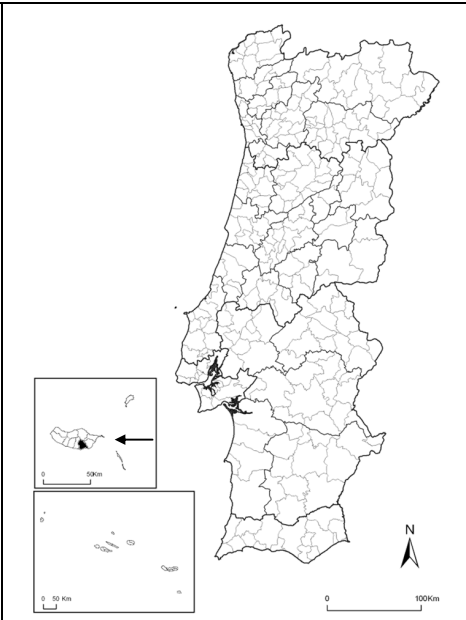


Fig. 162. Distribution map of *Pseudo-eunotia lunaris*

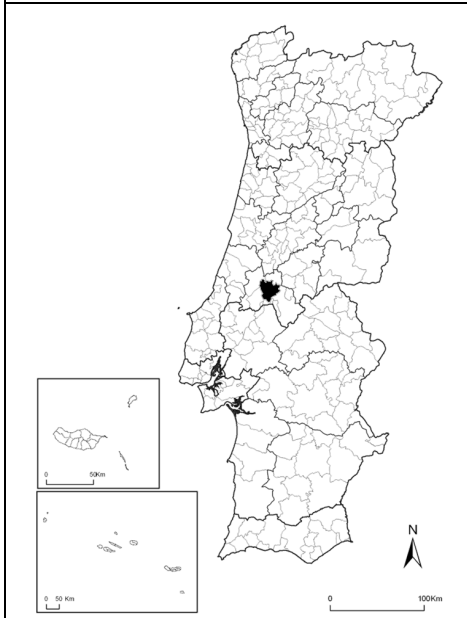


Fig. 163. Distribution map of *Pseudonitzschia seriata*

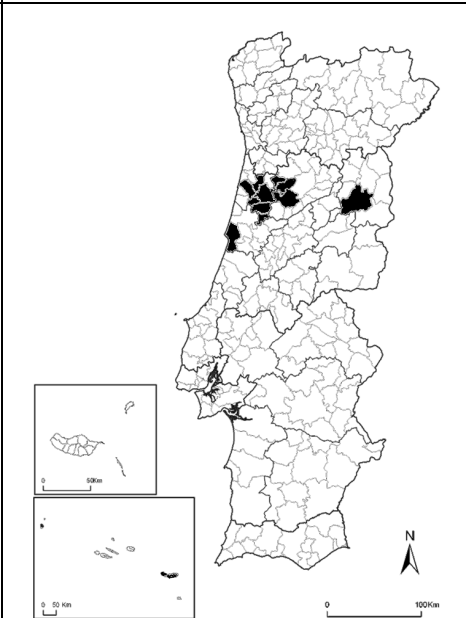


Fig. 164. Distribution map of *Pseudostaurosira brevistriata*

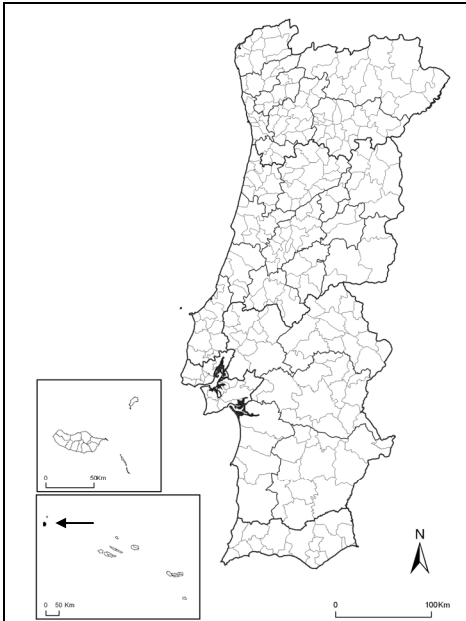


Fig. 165. Distribution map of *Pseudostaurosira elliptica*

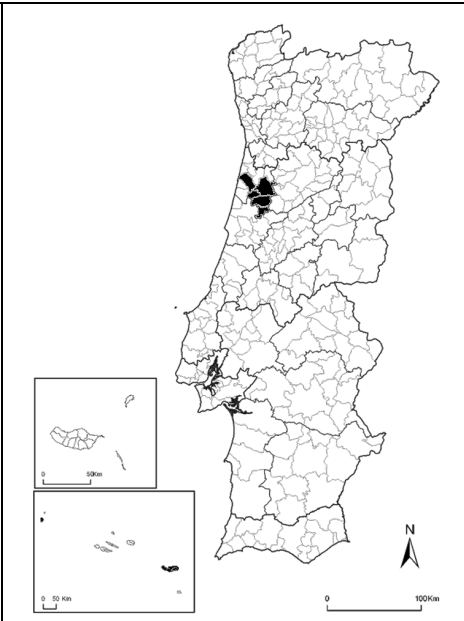


Fig. 166. Distribution map of *Pseudostaurosira parasitica*

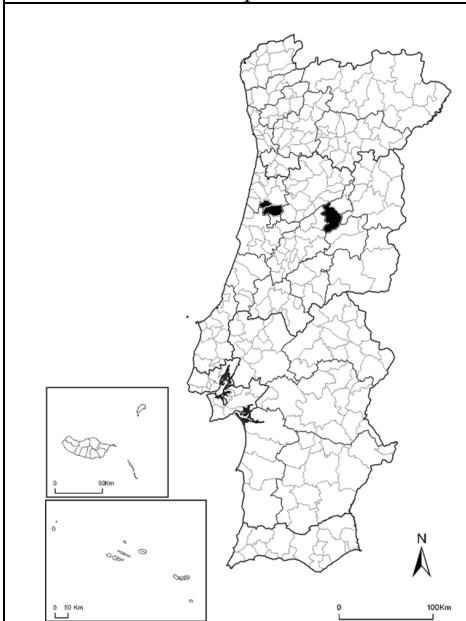


Fig. 167. Distribution map of *Pseudostaurosira parasitica* var. *subconstricta*

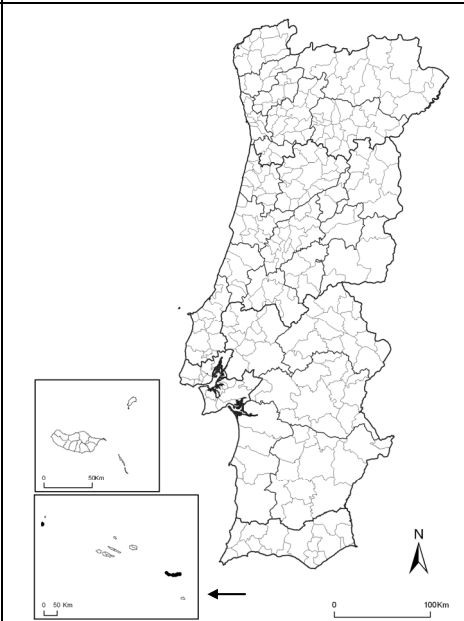


Fig. 168. Distribution map of *Pseudostaurosira pseudoconstruens*

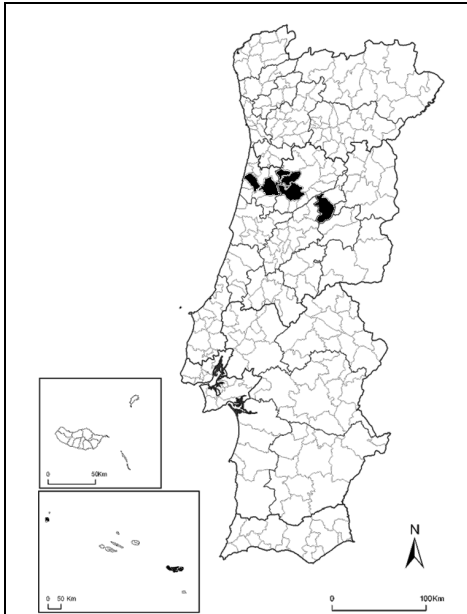


Fig. 169. Distribution map of *Pseudostaurosira subsalina*

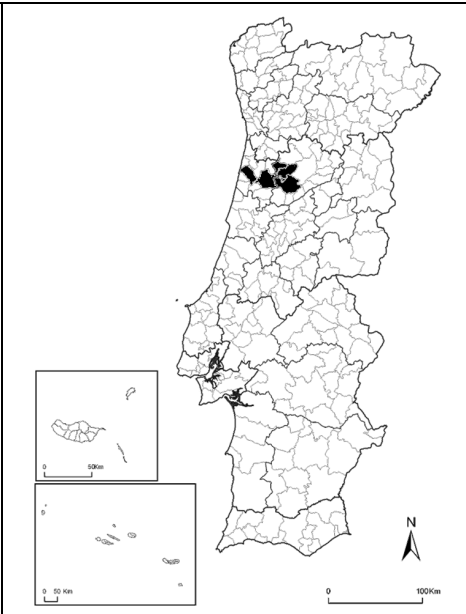


Fig. 170. Distribution map of *Punctastriata lancettula*

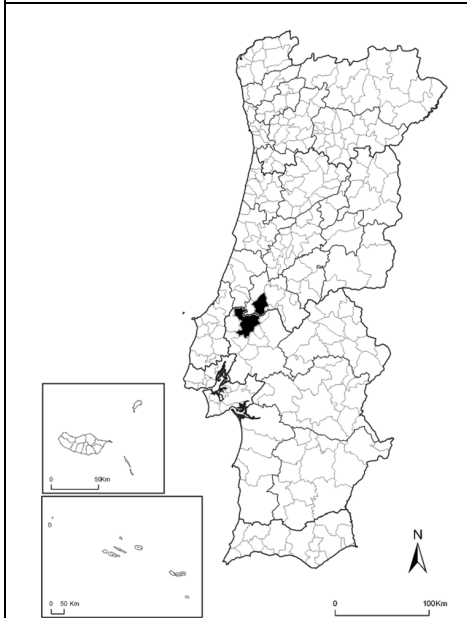


Fig. 171. Distribution map of *Puncticulata bodanica*

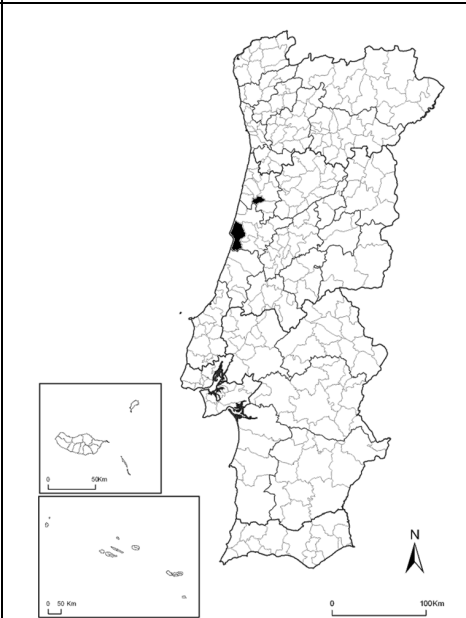


Fig. 172. Distribution map of *Puncticulata radiosa*

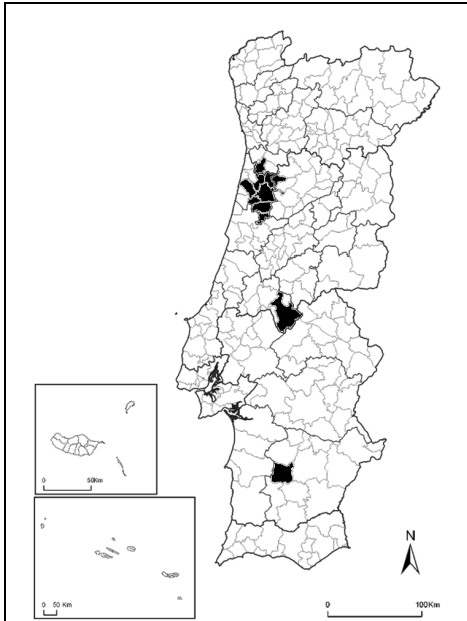


Fig. 173. Distribution map of *Reimeria sinuata*

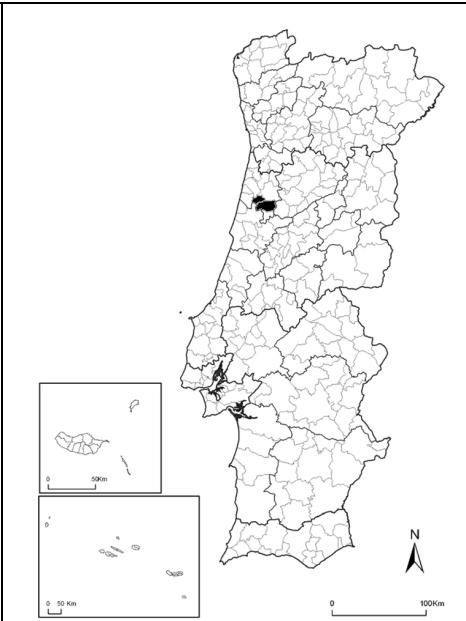


Fig. 174. Distribution map of *Reimeria ovata*

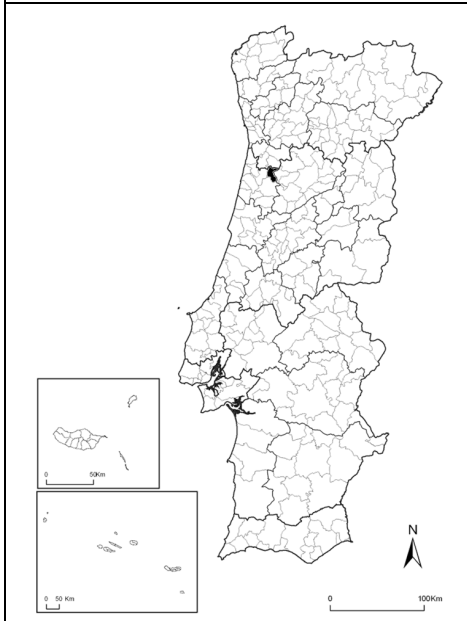


Fig. 175. Distribution map of *Reimeria uniseriata*

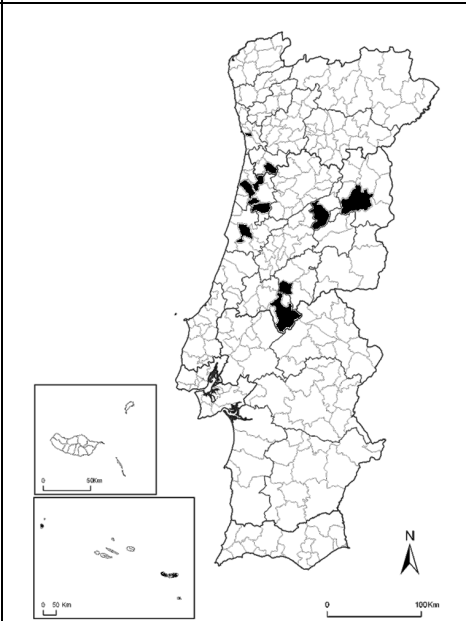


Fig. 176. Distribution map of *Rhoicosphenia abbreviata*

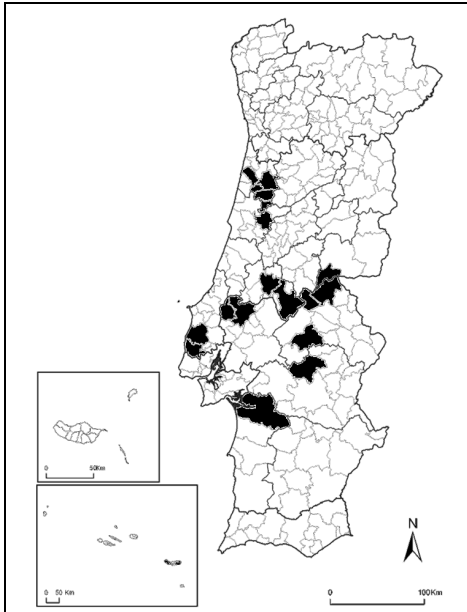


Fig. 177. Distribution map of *Rhoicosphenia curvata*

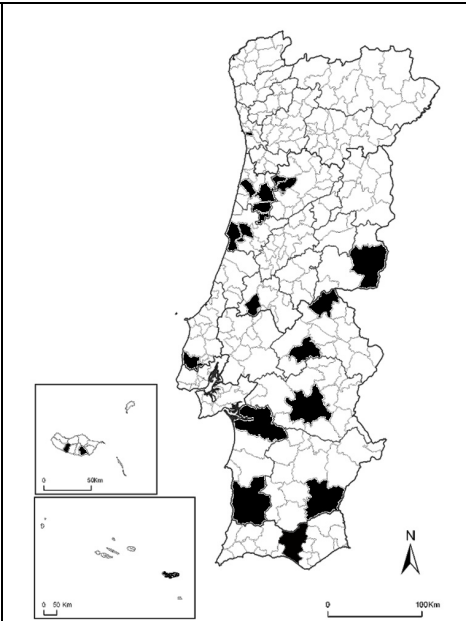


Fig. 178. Distribution map of *Rhopalodia gibba*

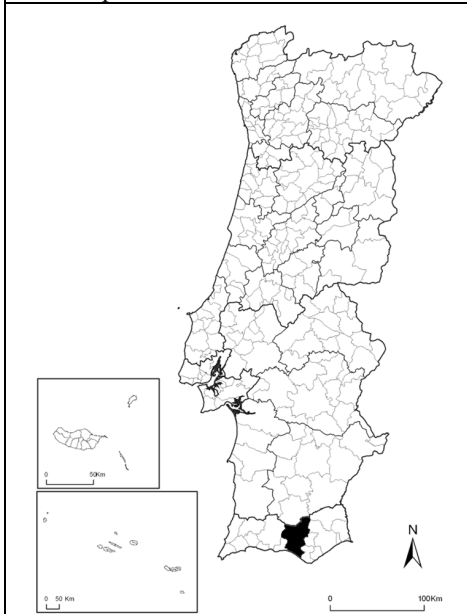


Fig. 179. Distribution map of *Rhopalodia gibba* var. *minuta*

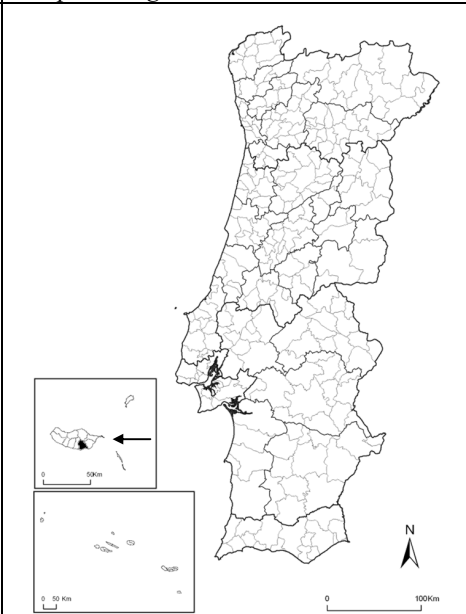


Fig. 180. Distribution map of *Rhopalodia gibba* var. *ventricosa*

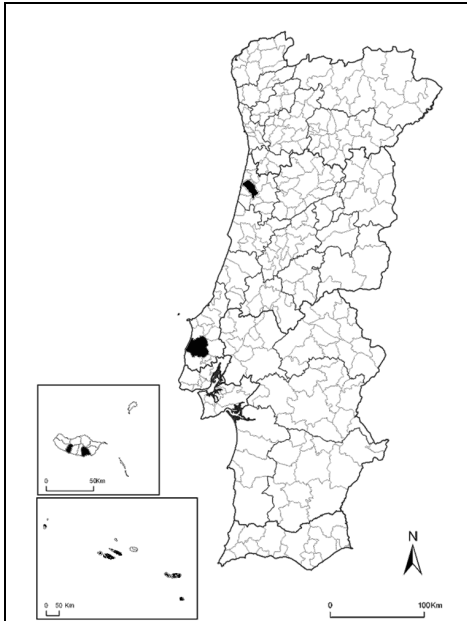


Fig. 181. Distribution map of *Rhopalodia gibberula*

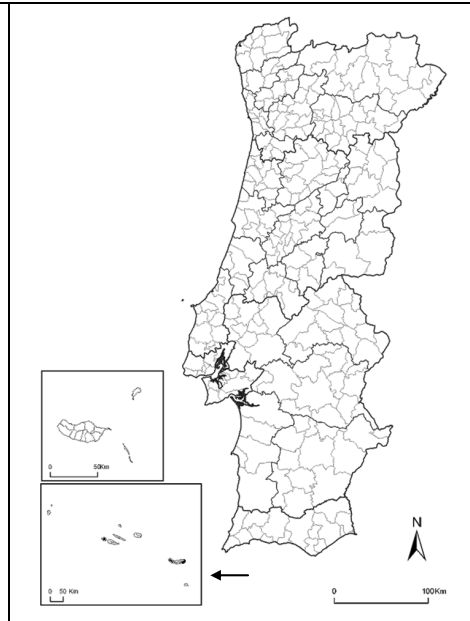


Fig. 182. Distribution map of *Rhopalodia gibberula* var. *producta*

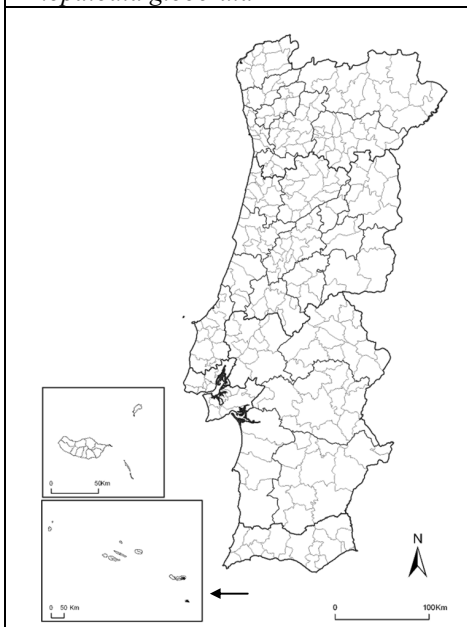


Fig. 183. Distribution map of *Rhopalodia gibberula* var. *vanheurckii*

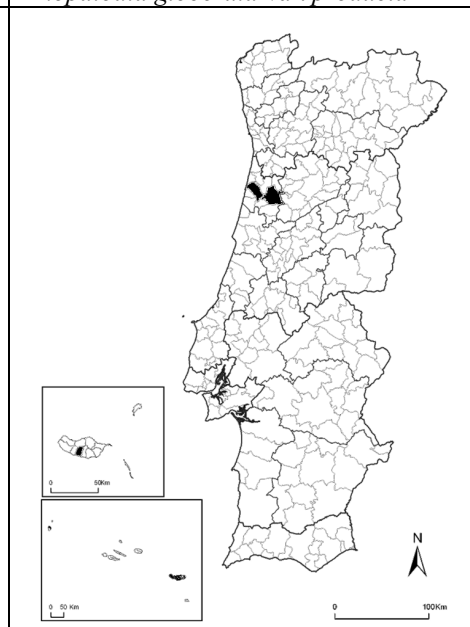


Fig. 184. Distribution map of *Rhopalodia musculus*

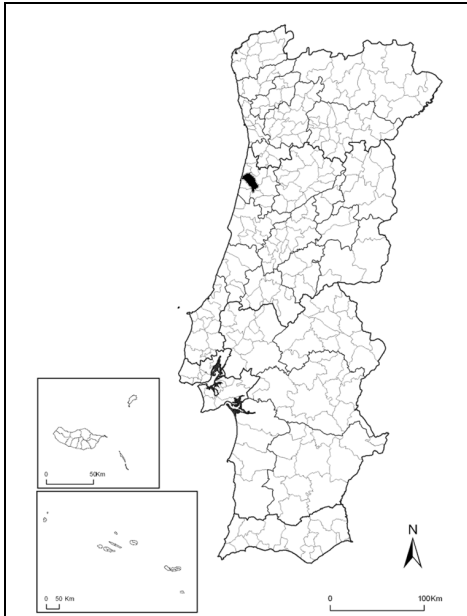


Fig. 185. Distribution map of *Rhopalodia operculata*

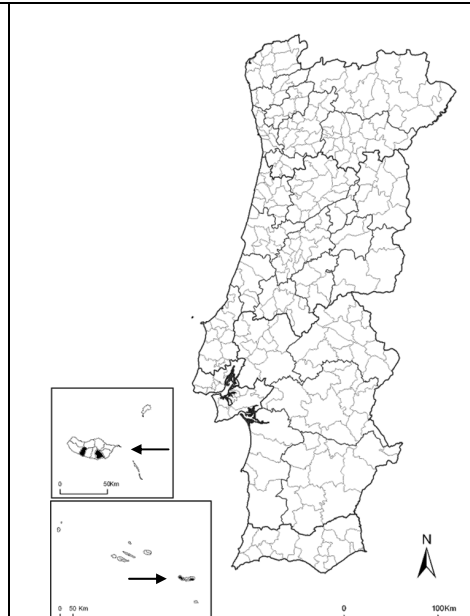


Fig. 186. Distribution map of *Rhopalodia parallela*

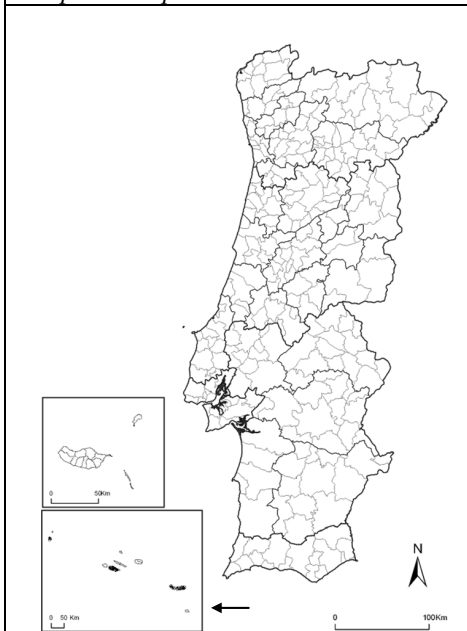


Fig. 187. Distribution map of *Rhopalodia rupestris*

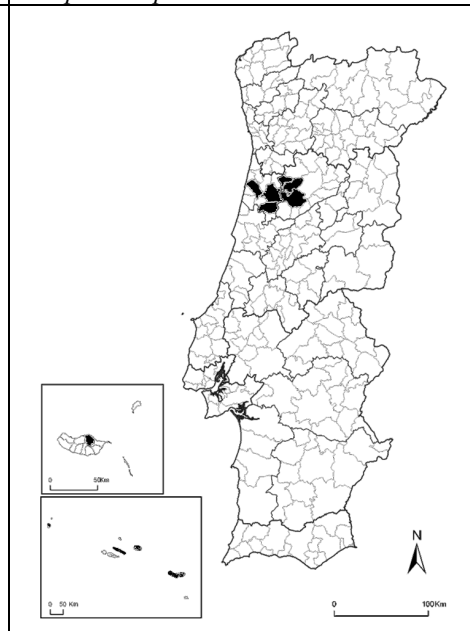


Fig. 188. Distribution map of *Rossithidium pusillum*

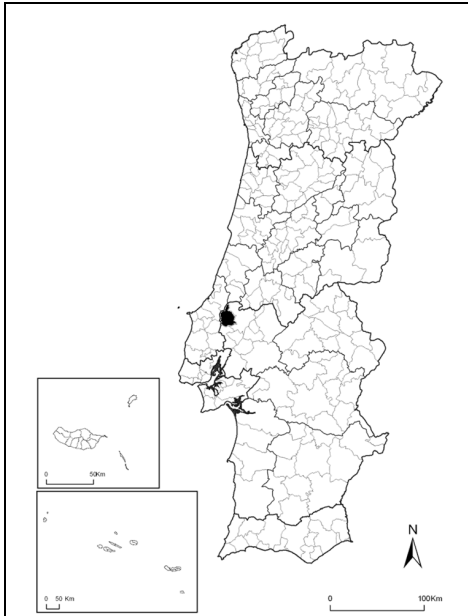


Fig. 189. Distribution map of *Scolioneis tumida*

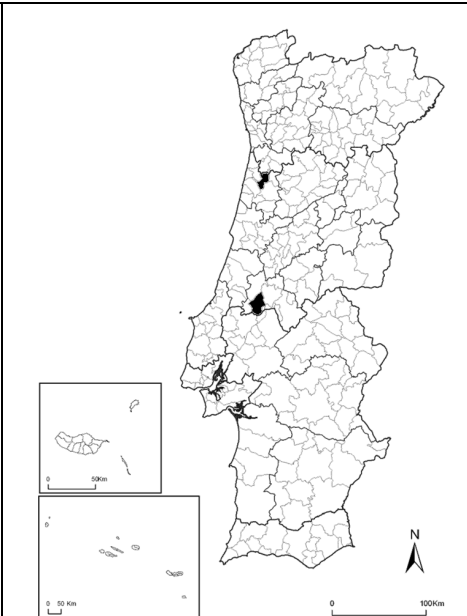


Fig. 190. Distribution map of *Sellaphora americana*

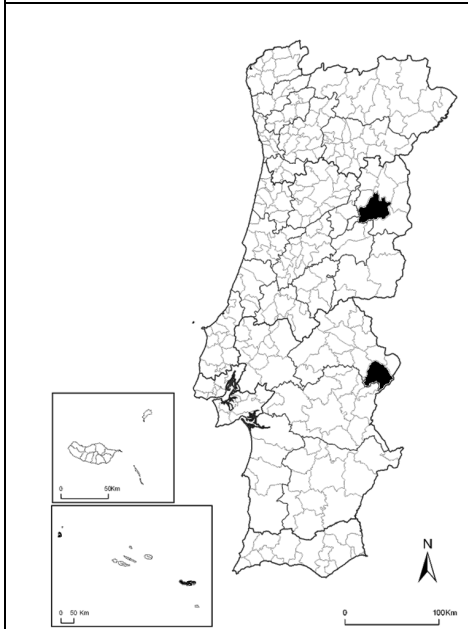


Fig. 191. Distribution map of *Sellaphora bacilliformis*

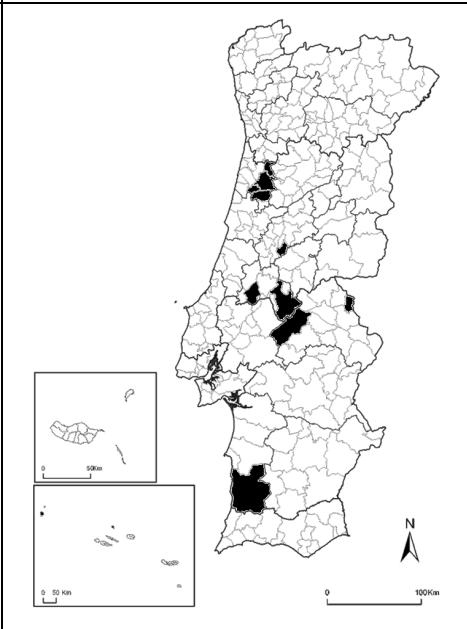


Fig. 192. Distribution map of *Sellaphora bacillum*

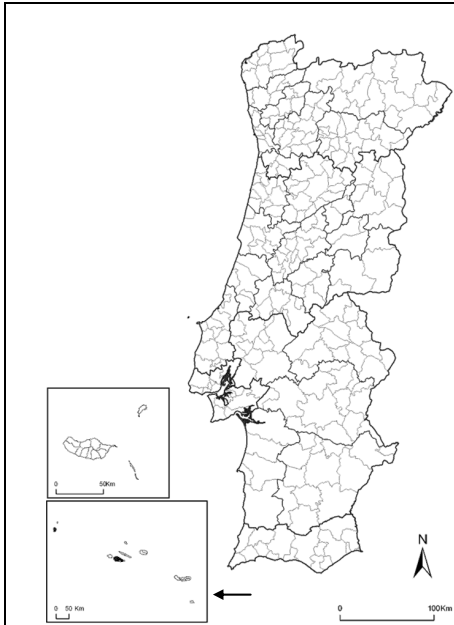


Fig. 193. Distribution map of *Sellaphora mereschkowskyi*

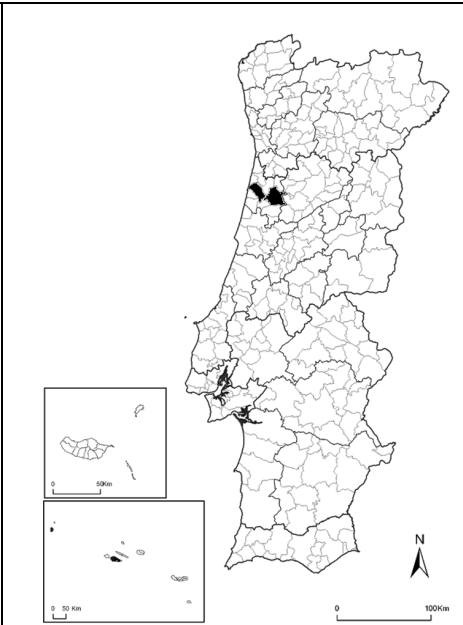


Fig. 194. Distribution map of *Sellaphora elliptica* (Hustedt) J.R. Johansen

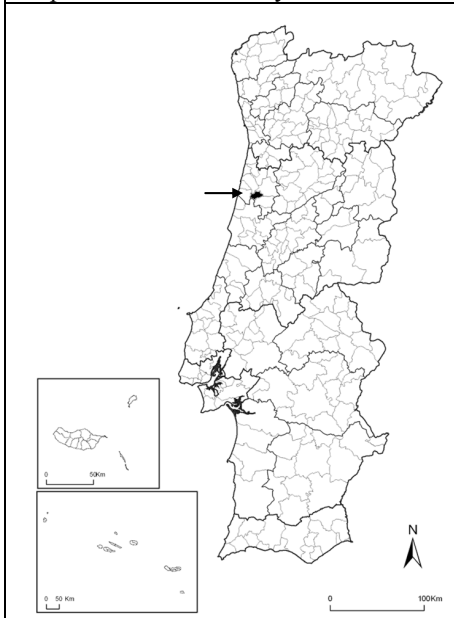


Fig. 195. Distribution map of *Sellaphora gregoryana*

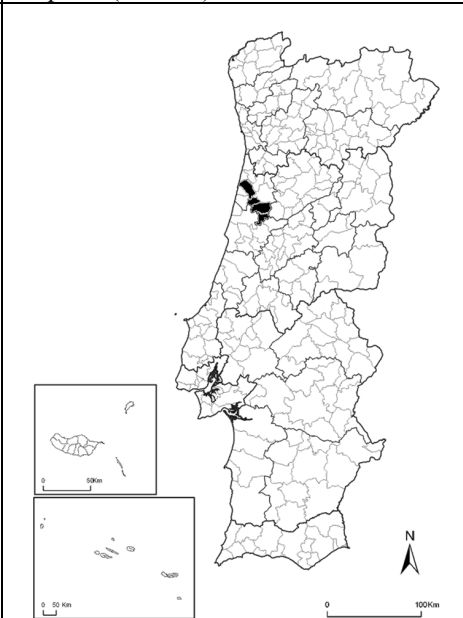


Fig. 196. Distribution map of *Sellaphora hustedtii*

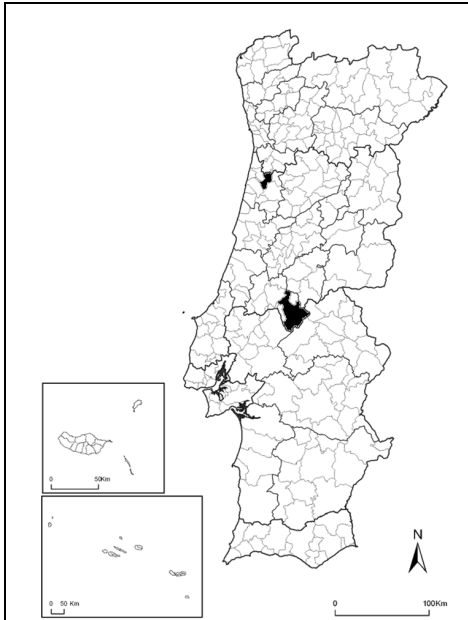


Fig. 197. Distribution map of *Sellaphora joubaudii*

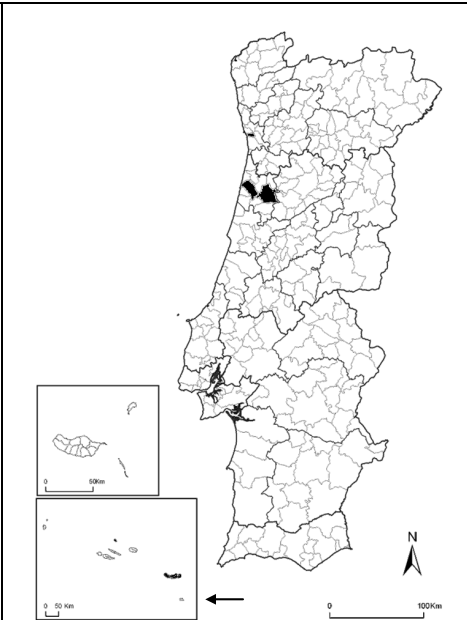


Fig. 198. Distribution map of *Sellaphora laevissima*

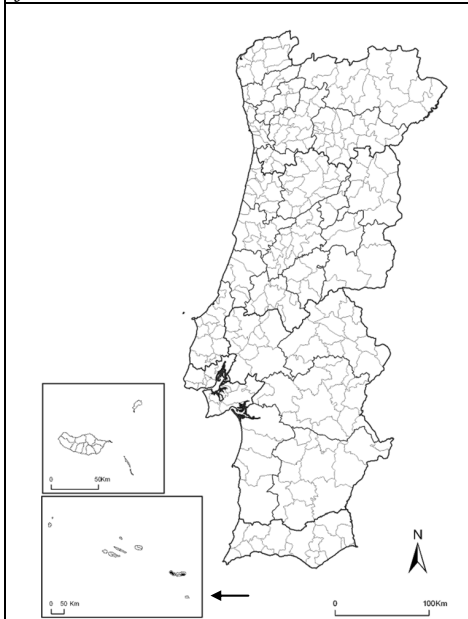


Fig. 199. Distribution map of *Sellaphora mutatooides*

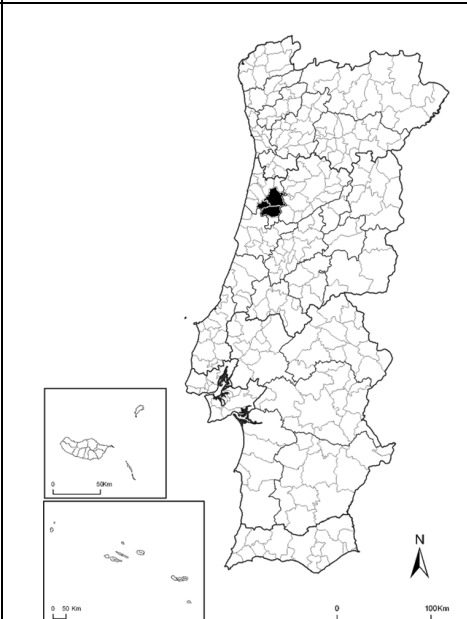


Fig. 200. Distribution map of *Sellaphora nyassensis*

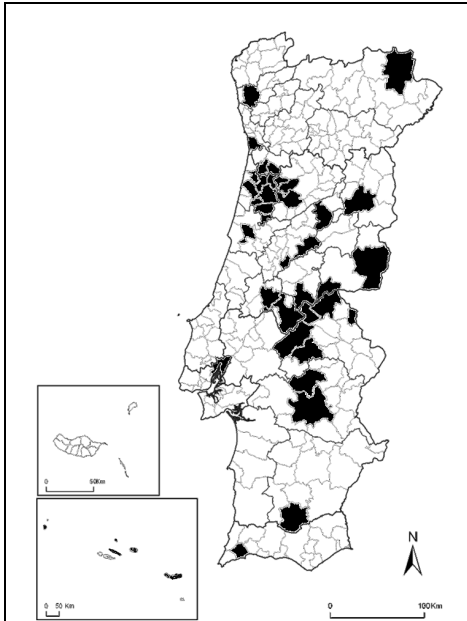


Fig. 201. Distribution map of *Sellaphora pupula*

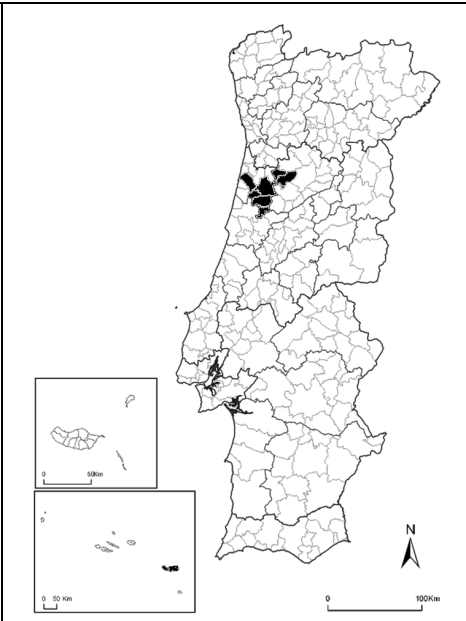


Fig. 202. Distribution map of *Sellaphora rectangularis*

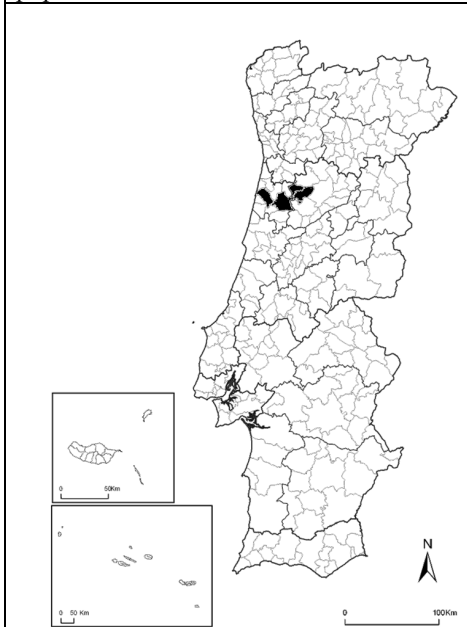


Fig. 203. Distribution map of *Sellaphora rostrata*

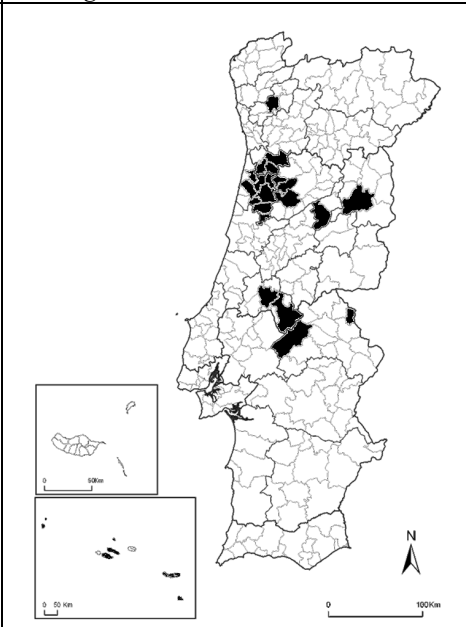


Fig. 204. Distribution map of *Sellaphora seminulum*

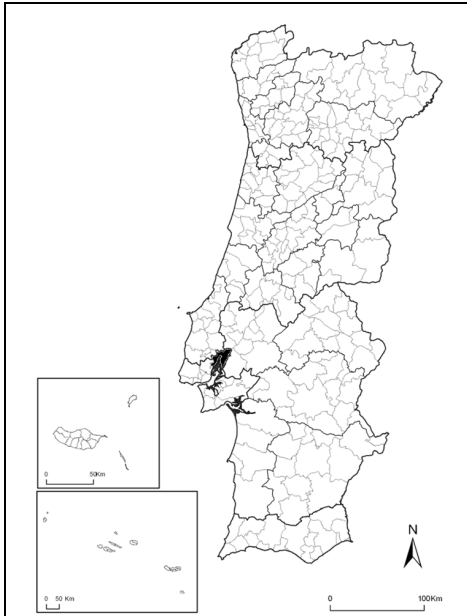


Fig. 205. Distribution map of *Skeletonema costatum*

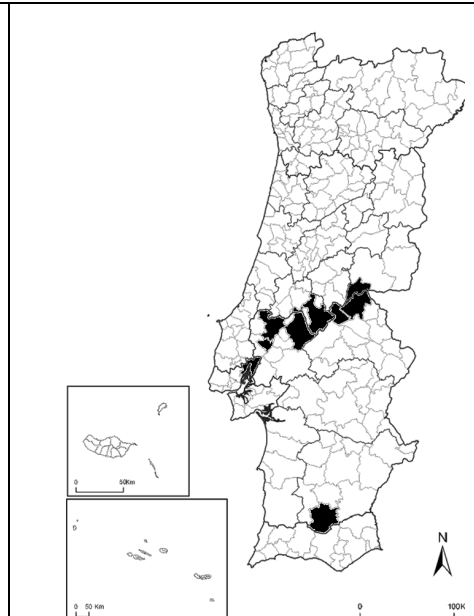


Fig. 206. Distribution map of *Skeletonema subsalsum*

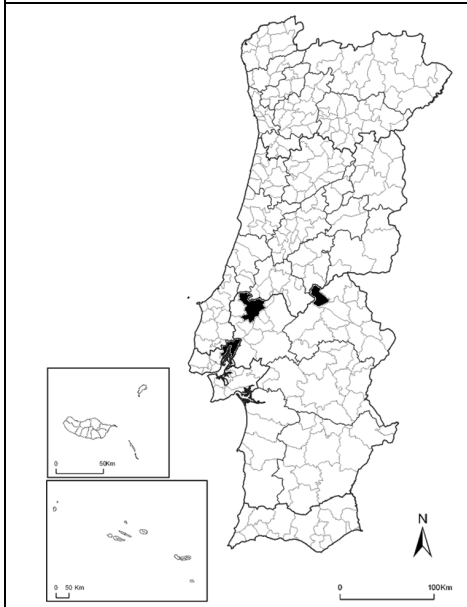


Fig. 207. Distribution map of *Skeletonema* sp.

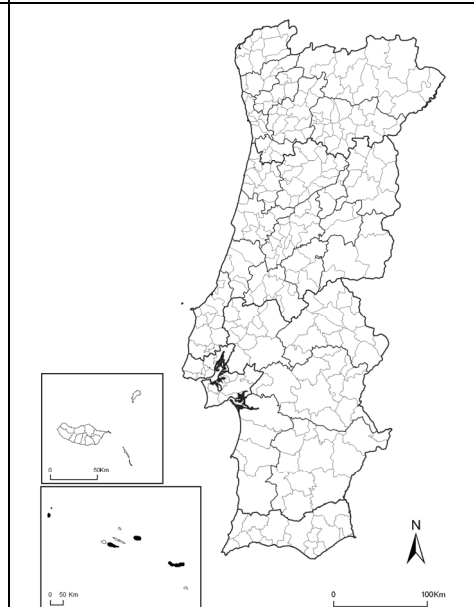


Fig. 208. Distribution map of *Stauroforma exiguiformis*

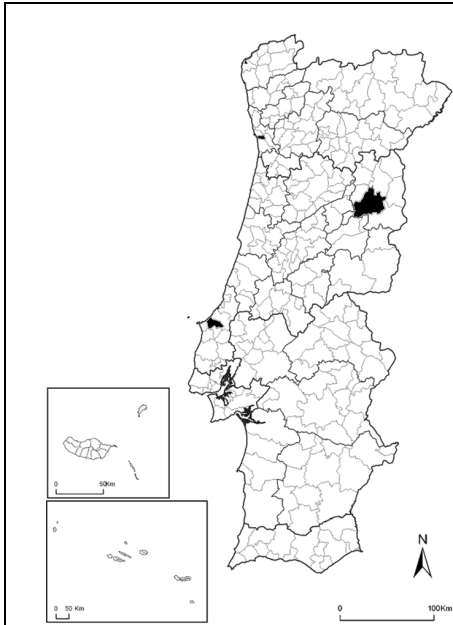


Fig. 209. Distribution map of *Stauroneis acuta*

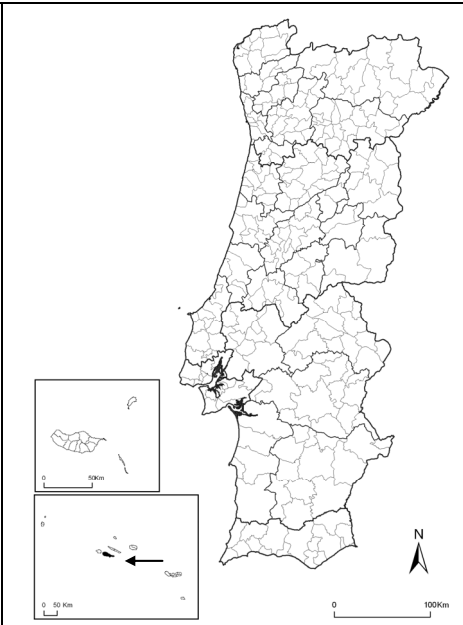


Fig. 210. Distribution map of *Stauroneis alpina*

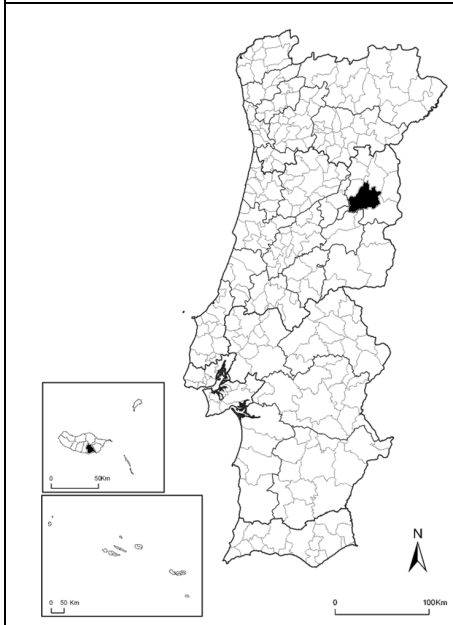


Fig. 211. Distribution map of *Stauroneis amphicephala*

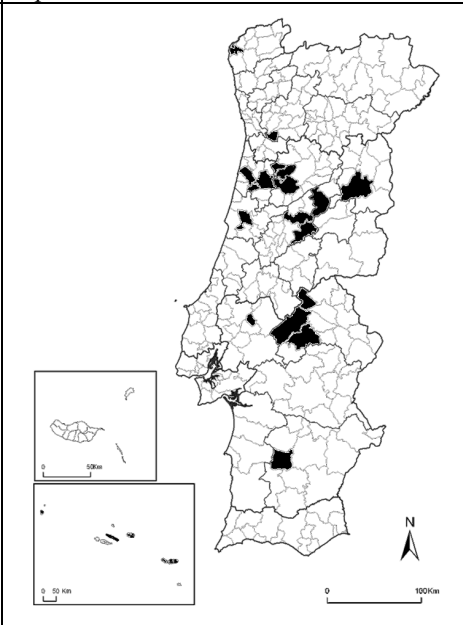


Fig. 212. Distribution map of *Stauroneis anceps*

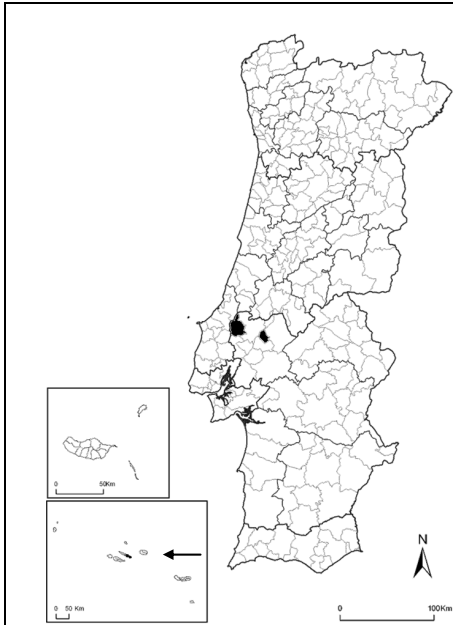


Fig. 213. Distribution map of *Stauroneis anceps* var. *hyalina*

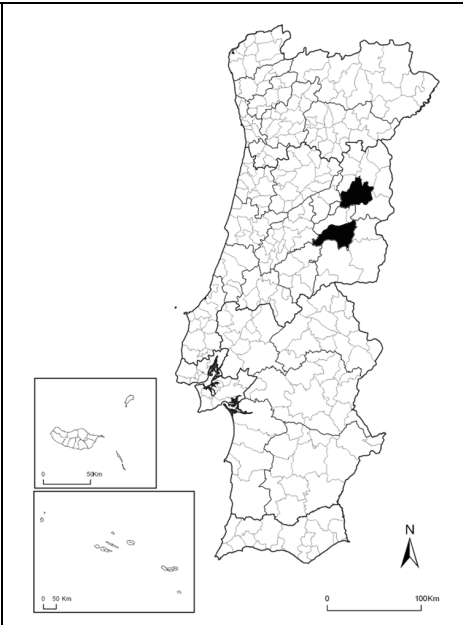


Fig. 214. Distribution map of *Stauroneis anceps* var. *linearis*

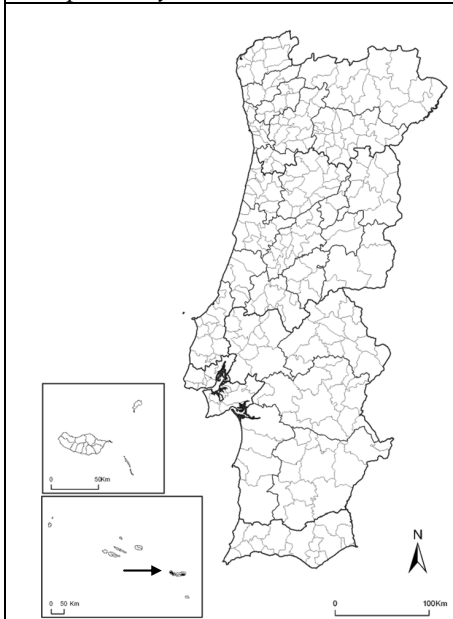


Fig. 215. Distribution map of *Stauroneis dubia*

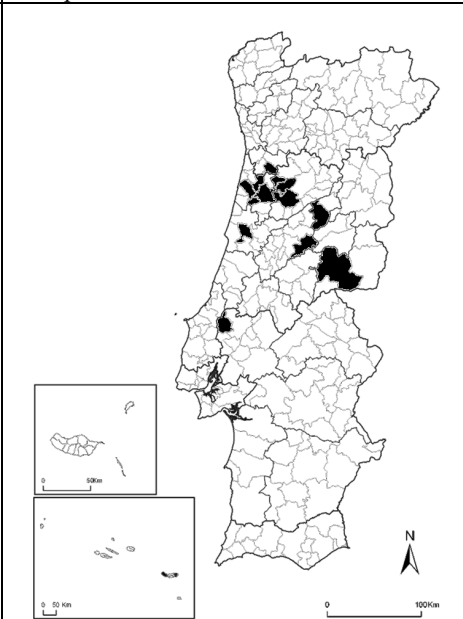


Fig. 216. Distribution map of *Stauroneis gracilior*

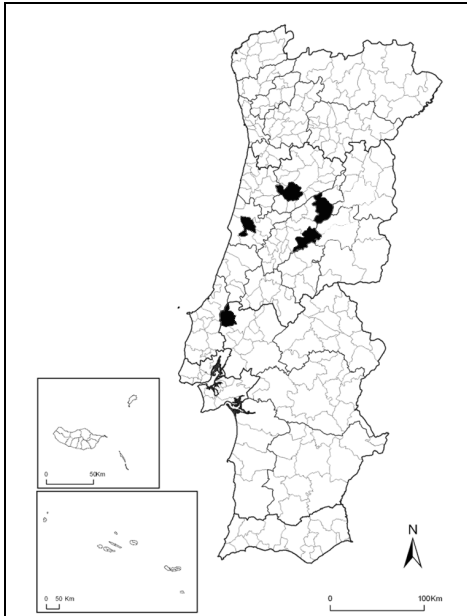


Fig. 217. Distribution map of *Stauroneis gracilis*

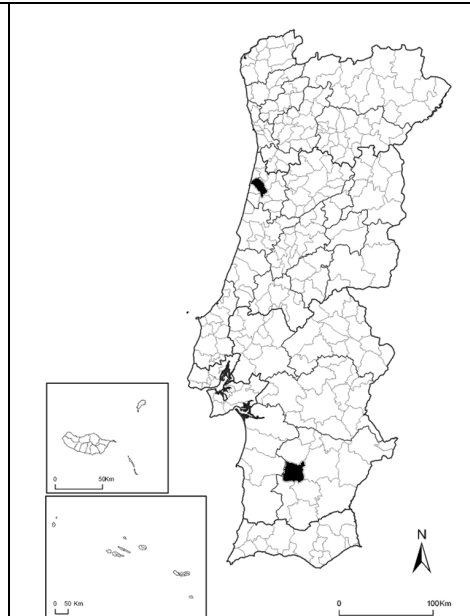


Fig. 218. Distribution map of *Stauroneis kriegei*

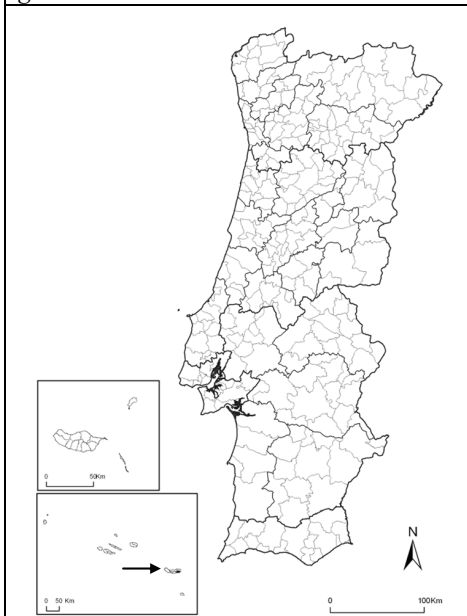


Fig. 219. Distribution map of *Stauroneis lanceolata*

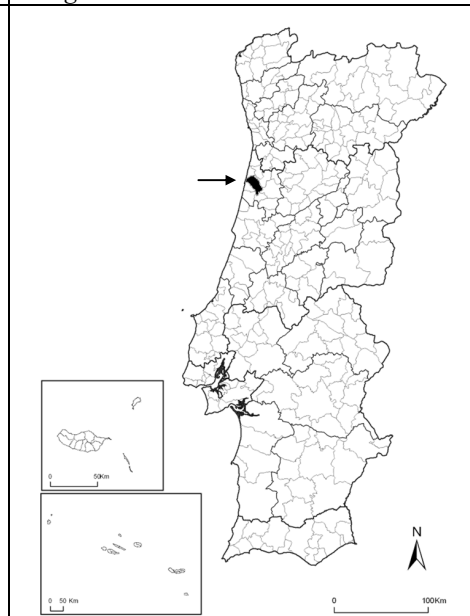


Fig. 220. Distribution map of *Stauroneis legumen*

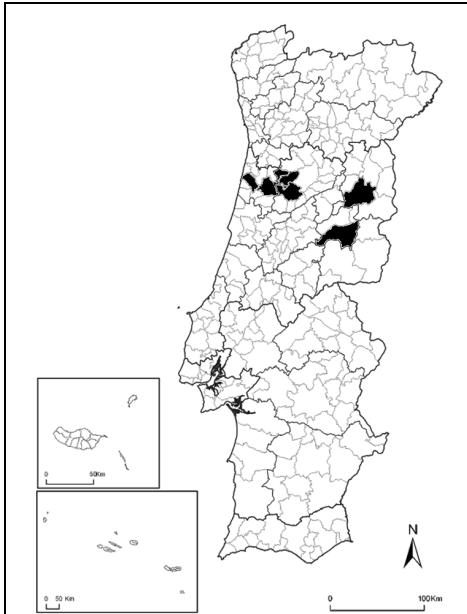


Fig. 221. Distribution map of *Stauroneis linearis*

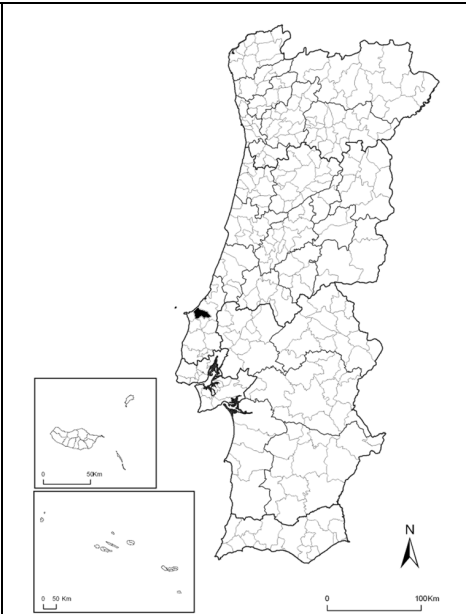


Fig. 222. Distribution map of *Stauroneis parvula*

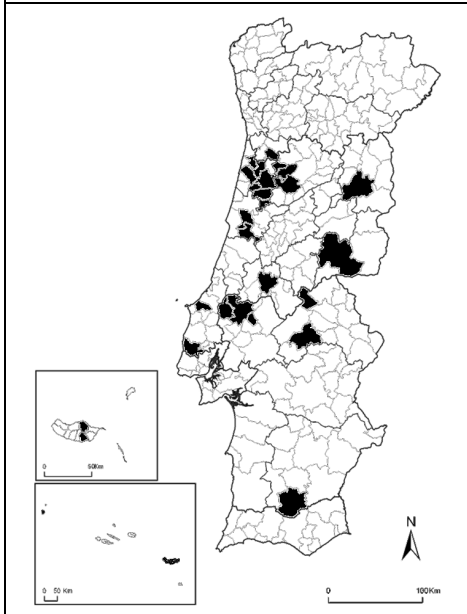


Fig. 223. Distribution map of *Stauroneis phoenicenteron*

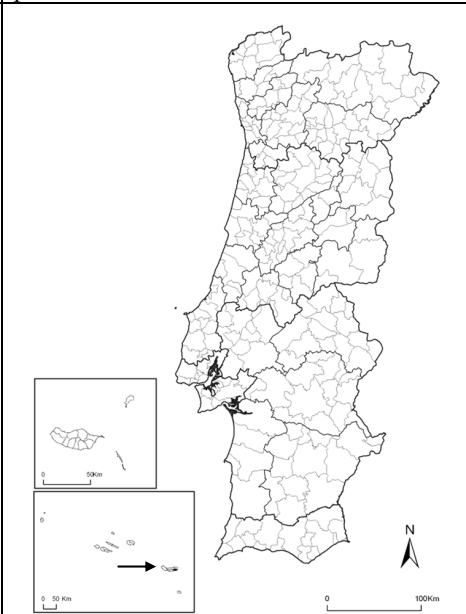


Fig. 224. Distribution map of *Stauroneis polymorpha*

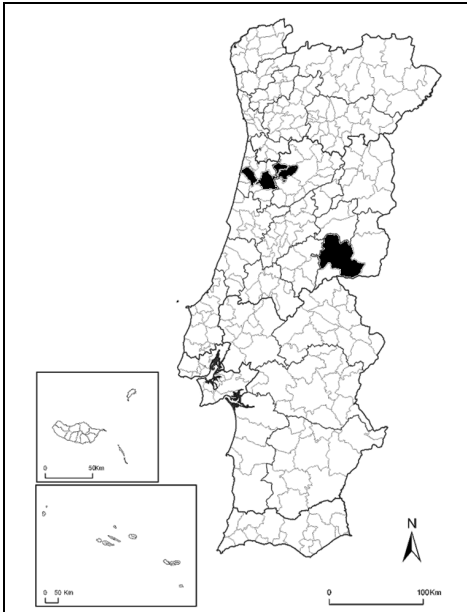


Fig. 225. Distribution map of *Stauroneis producta*

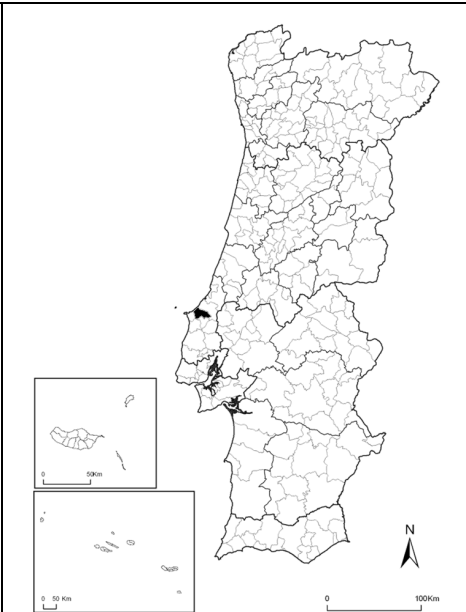


Fig. 226. Distribution map of *Stauroneis prominula*

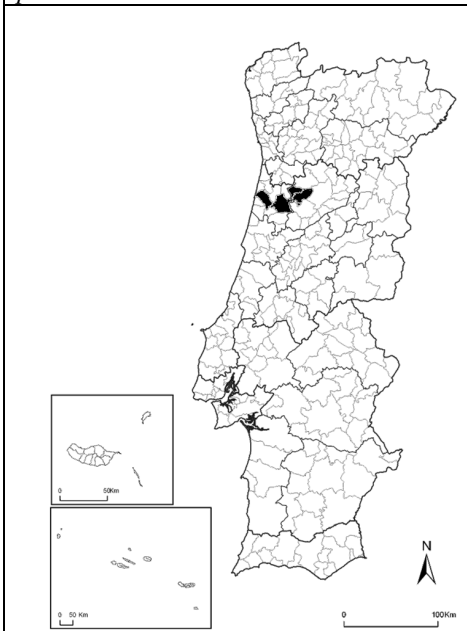


Fig. 227. Distribution map of *Stauroneis pseudosubobtusoides*

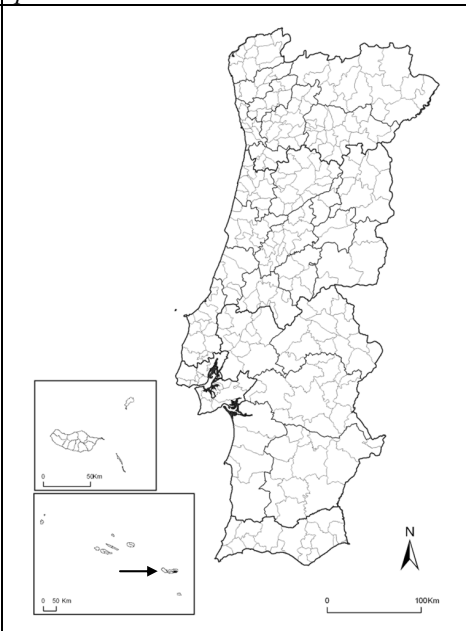


Fig. 228. Distribution map of *Stauroneis punctata*

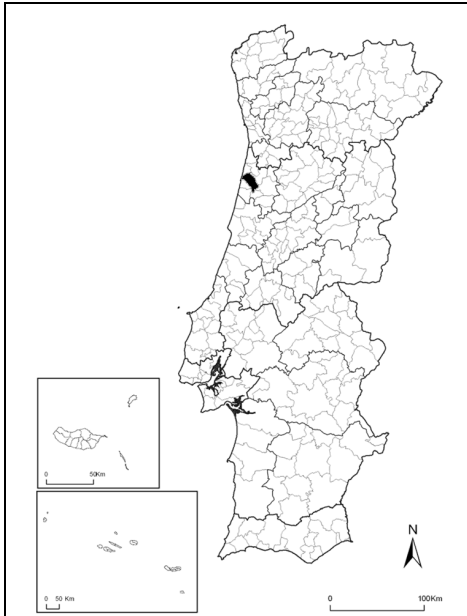


Fig. 229. Distribution map of *Stauroneis salina*

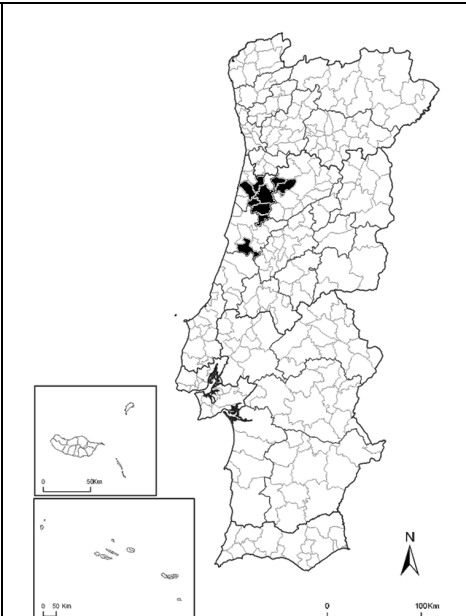


Fig. 230. Distribution map of *Stauroneis smithii*

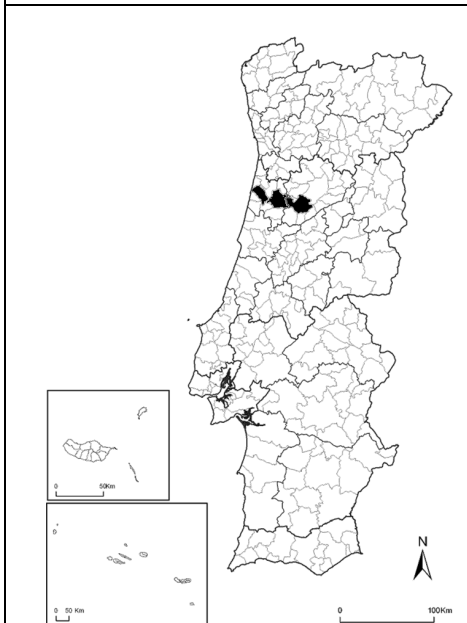


Fig. 231. Distribution map of *Stauroneis smithii* var. *borgei*

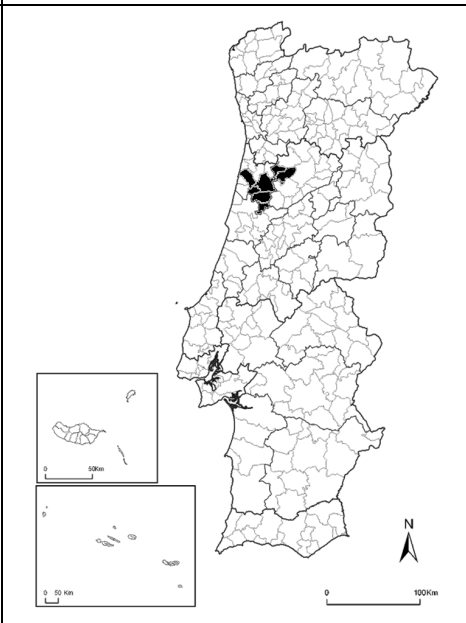


Fig. 232. Distribution map of *Stauroneis smithii* var. *incisa*

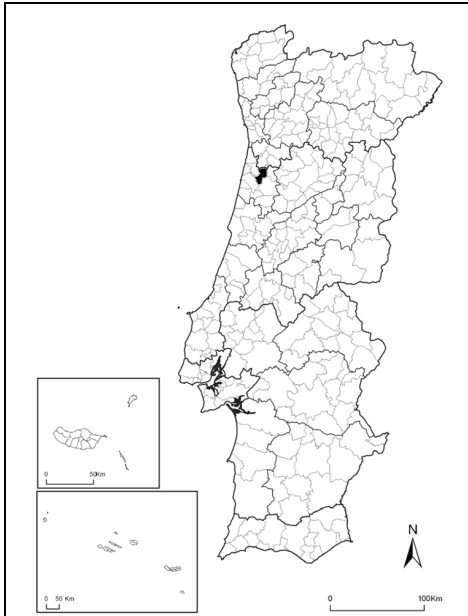


Fig. 233. Distribution map of *Stauroneis thermicola*

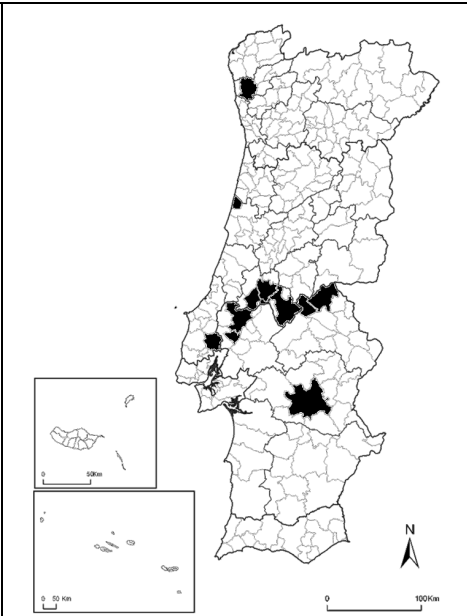


Fig. 234. Distribution map of *Stauroneis* sp.

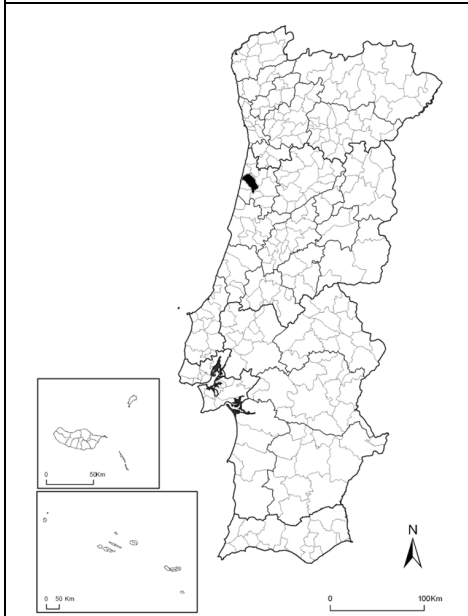


Fig. 235. Distribution map of *Staurosira binodis*

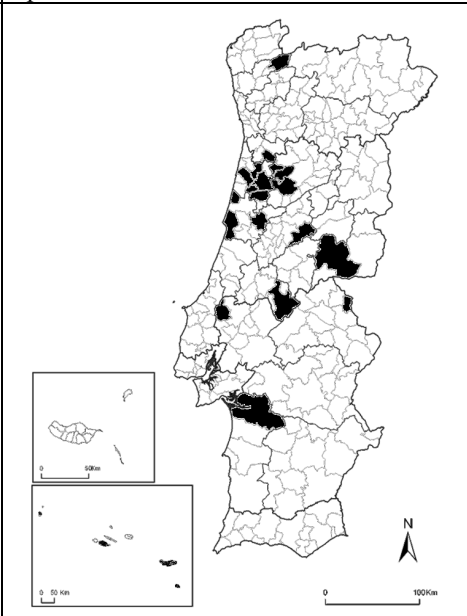


Fig. 236. Distribution map of *Staurosira construens*

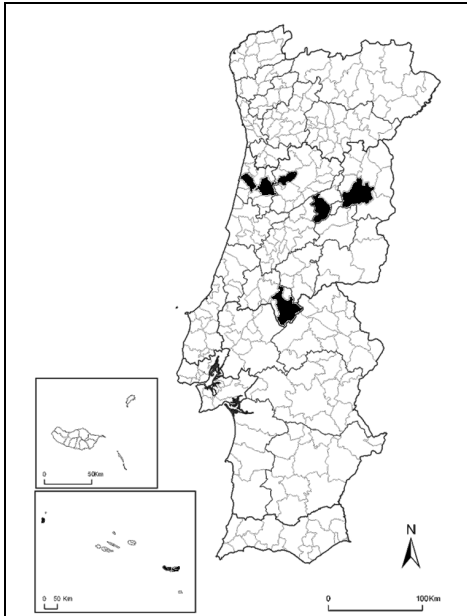


Fig. 237. Distribution map of *Staurosira venter*

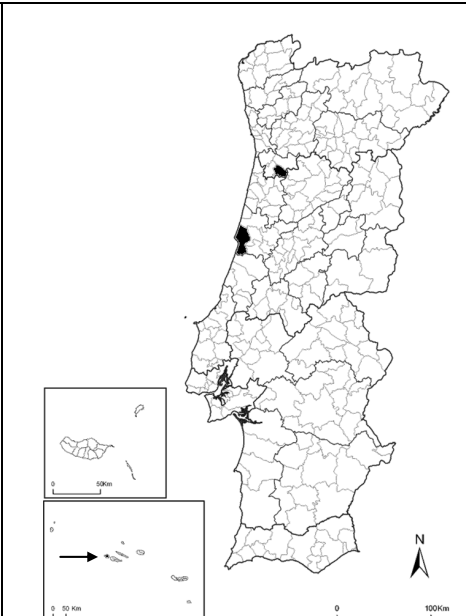


Fig. 238. Distribution map of *Staurosirella leptostauron*

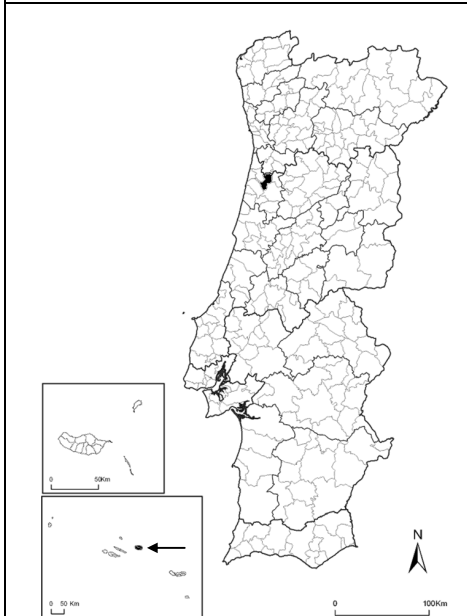


Fig. 239. Distribution map of *Staurosirella martyi*

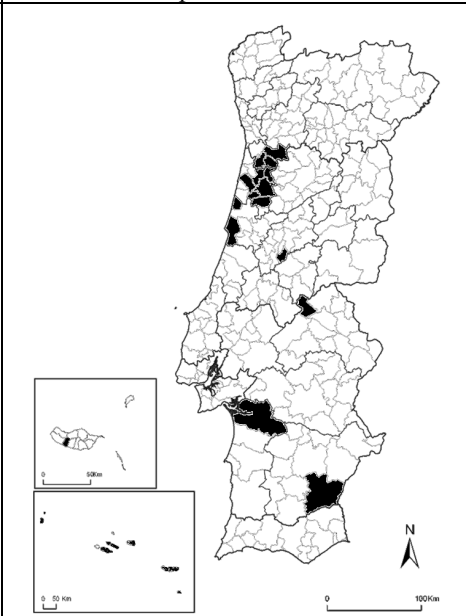


Fig. 240. Distribution map of *Staurosirella pinnata*

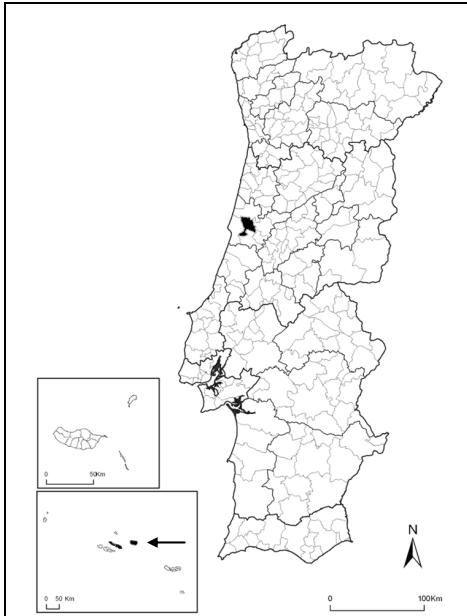


Fig. 241. Distribution map of *Stenopterobia curvula*

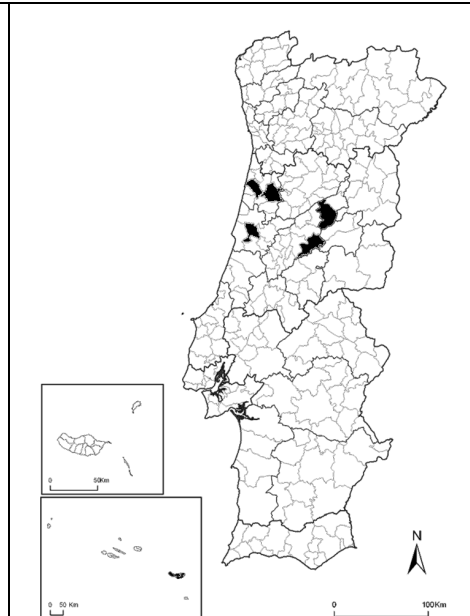


Fig. 242. Distribution map of *Stenopterobia delicatissima*

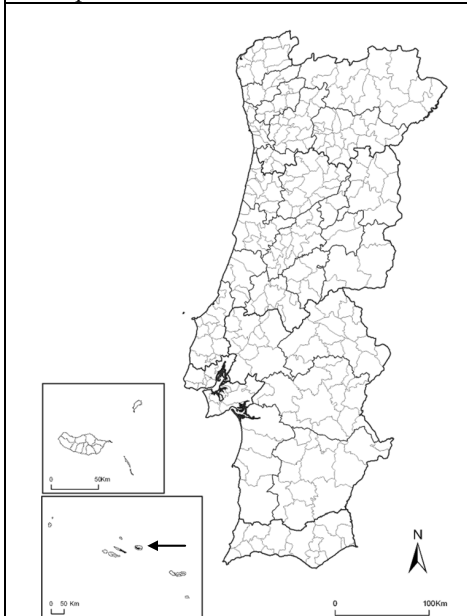


Fig. 243. Distribution map of *Stenopterobia intermedia*

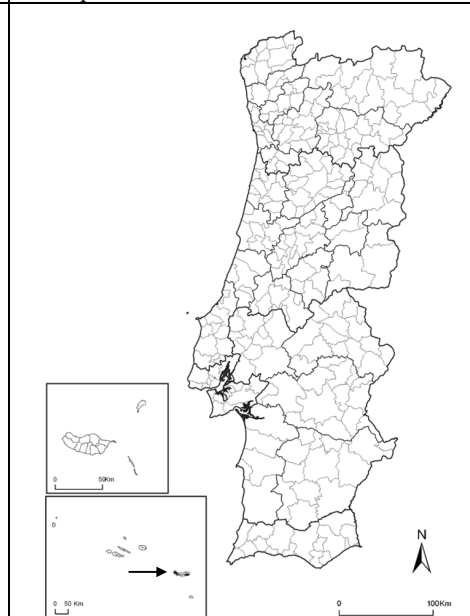


Fig. 244. Distribution map of *Stenopterobia sigmatella*

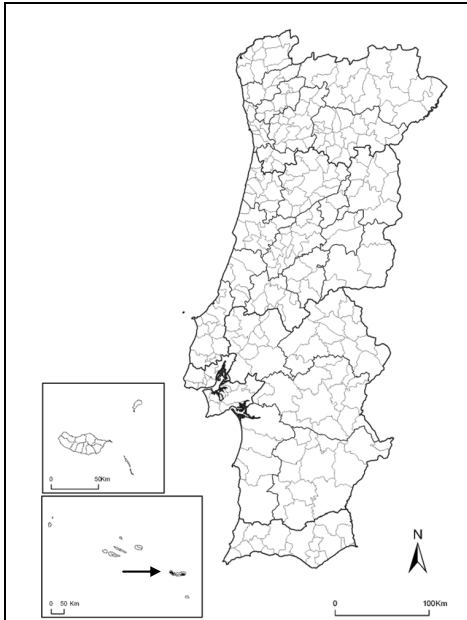


Fig. 245. Distribution map of *Stephanodiscus alpinus*

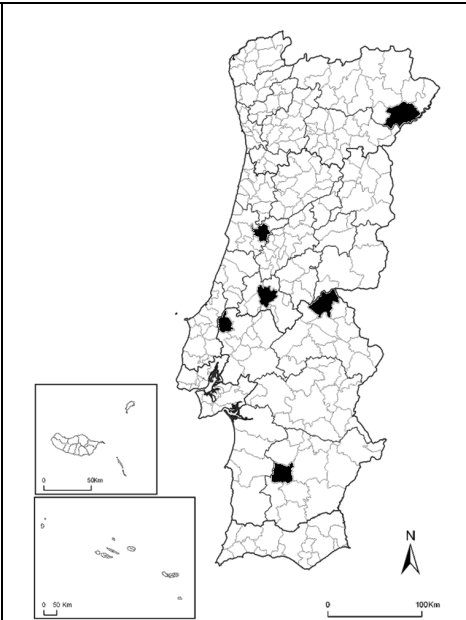


Fig. 246. Distribution map of *Stephanodiscus astraea*

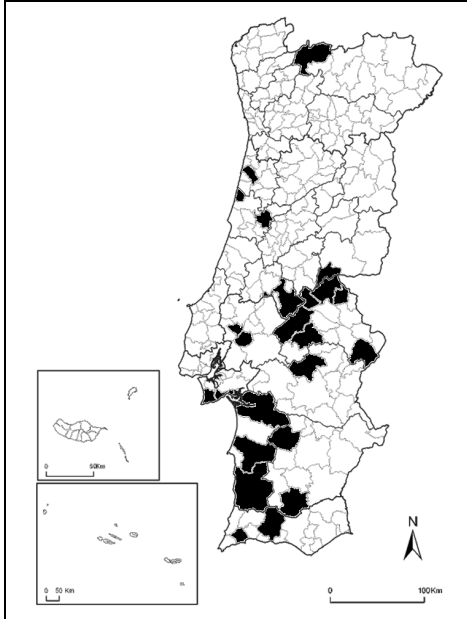


Fig. 247. Distribution map of *Stephanodiscus hantzschii*

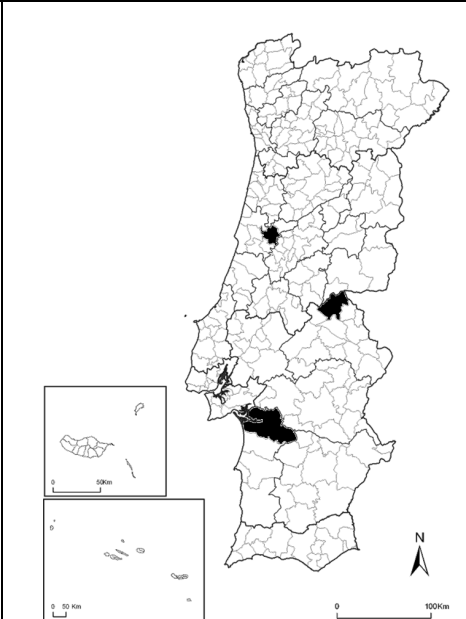


Fig. 248. Distribution map of *Stephanodiscus hantzschii* var. *pusilla*

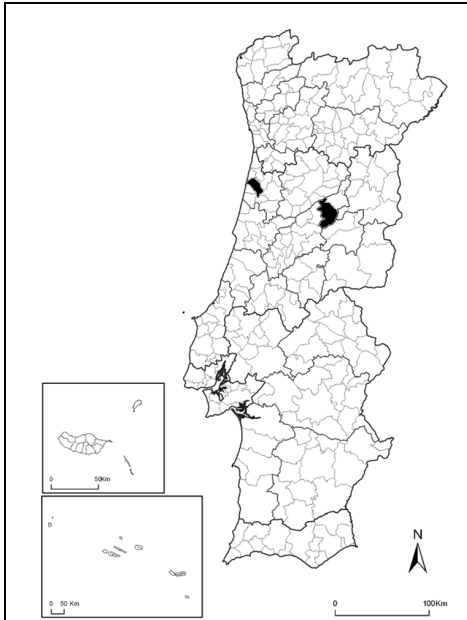


Fig. 249. Distribution map of *Stephanodiscus minutulus*

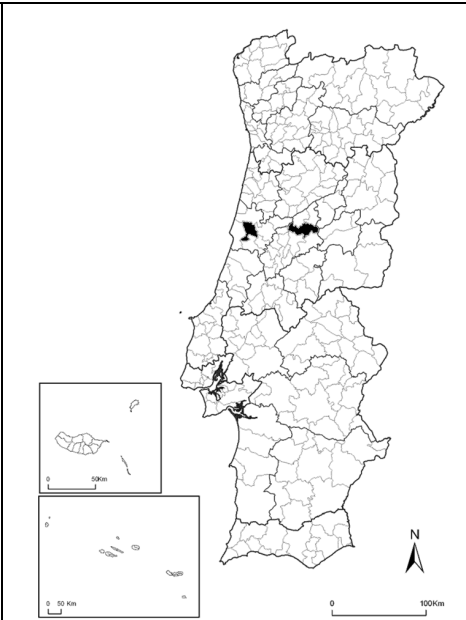


Fig. 250. Distribution map of *Stephanodiscus parvus*

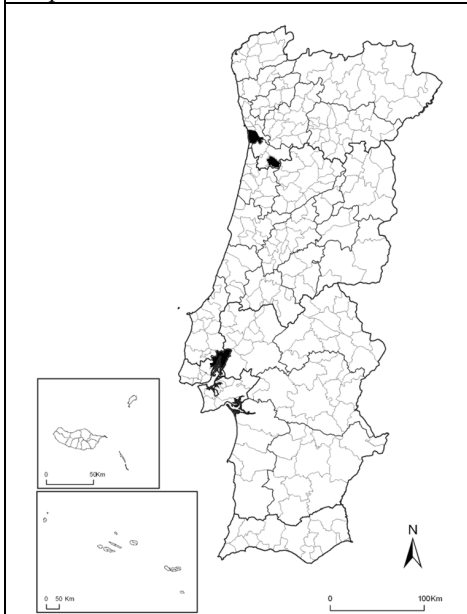


Fig. 251. Distribution map of *Stephanodiscus tenuis* Hustedt

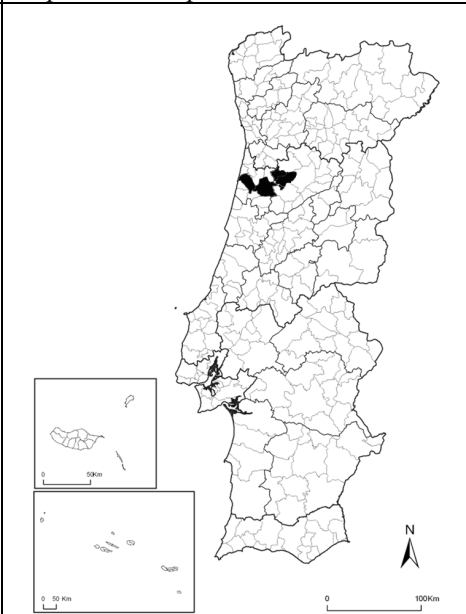


Fig. 252. Distribution map of *Stephanodiscus tenuis* (Ehrenberg) Grunow

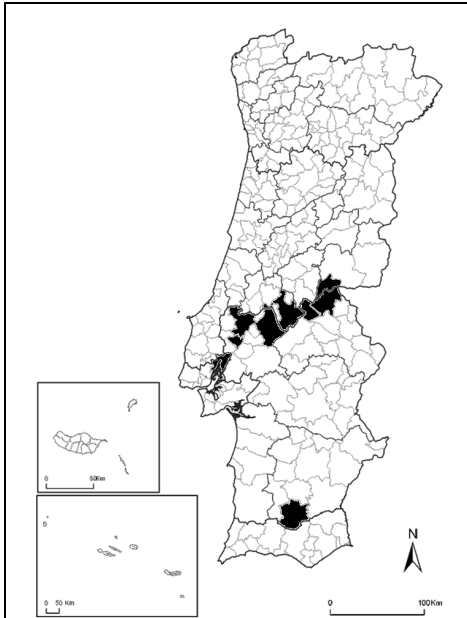


Fig. 253. Distribution map of *Stephanodiscus* sp.

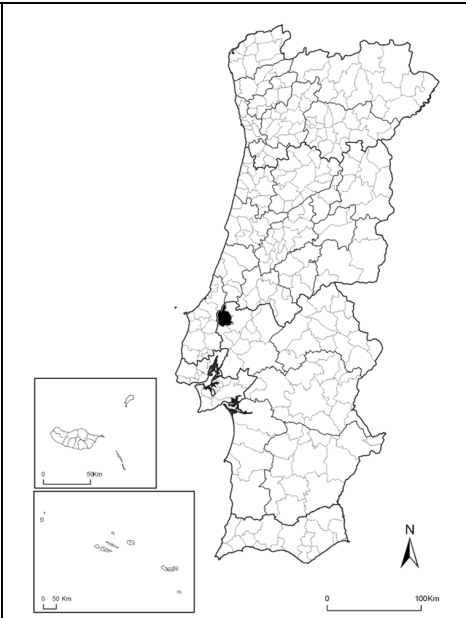


Fig. 254. Distribution map of *Striatella interrupta*

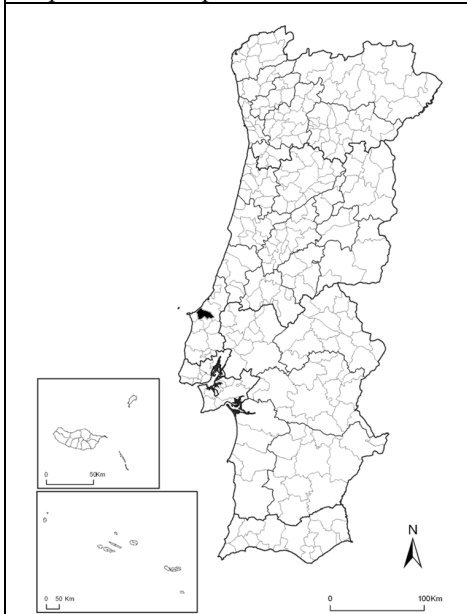


Fig. 255. Distribution map of *Striatella unipunctata*

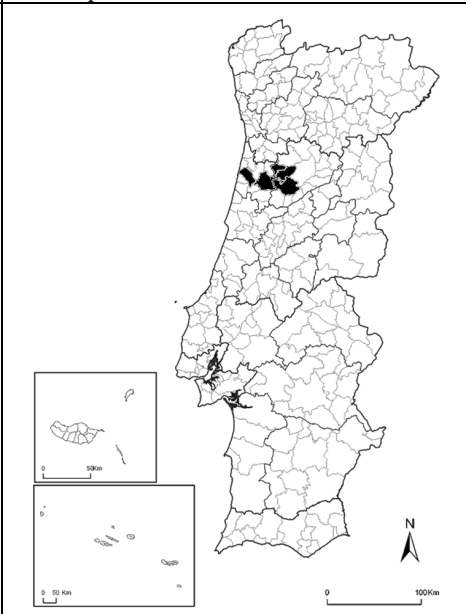


Fig. 256. Distribution map of *Surirella aculeata*

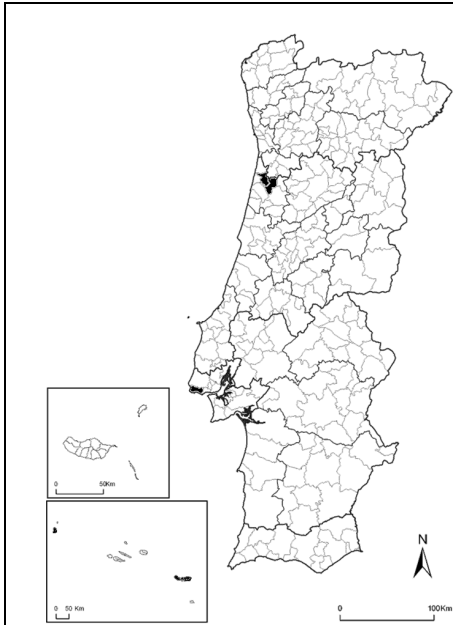


Fig. 257. Distribution map of *Surirella amphioxys*

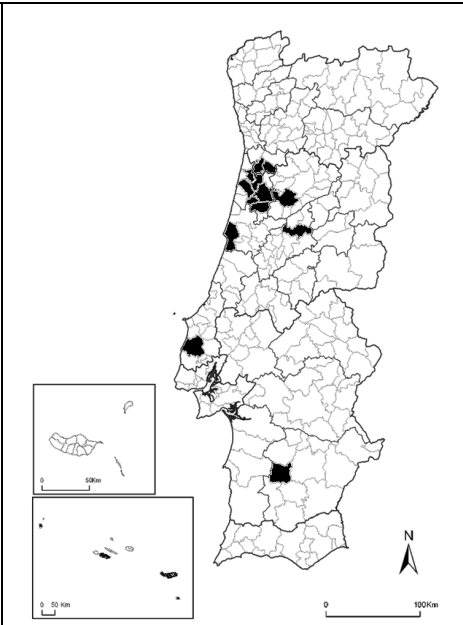


Fig. 258. Distribution map of *Surirella angusta*

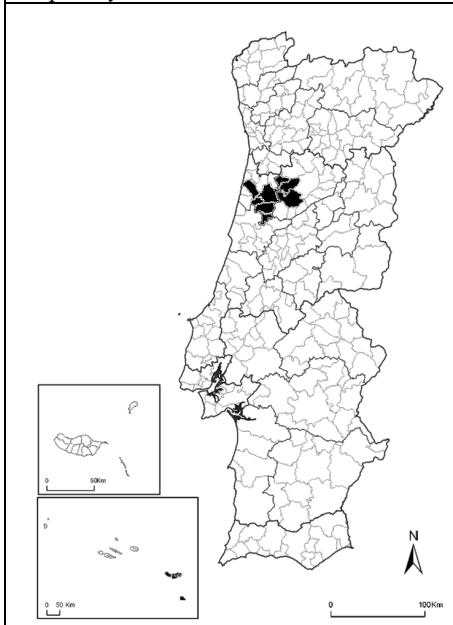


Fig. 259. Distribution map of *Surirella angustata*

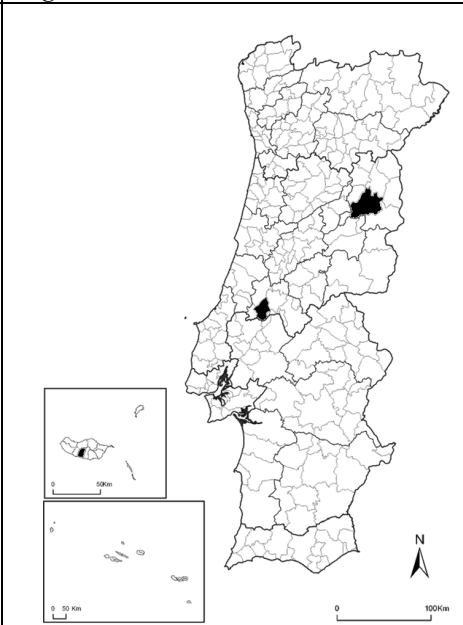


Fig. 260. Distribution map of *Surirella apiculata*

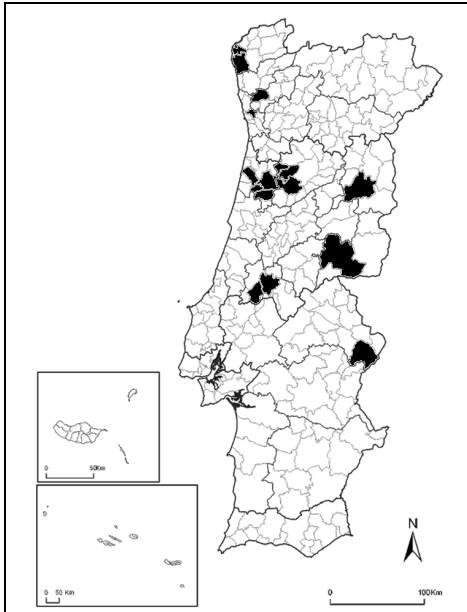


Fig. 261. Distribution map of *Surirella biseriata*

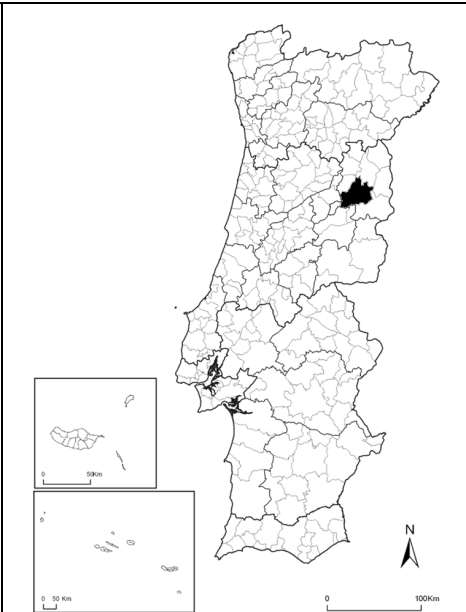


Fig. 262. Distribution map of *Surirella biseriata* var. *minor*

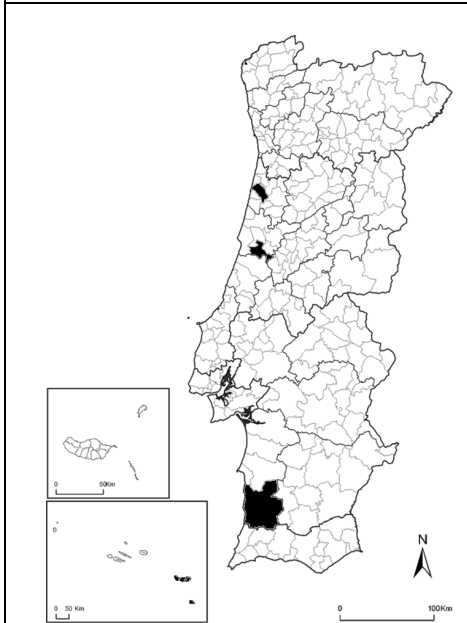


Fig. 263. Distribution map of *Surirella brebissonii*

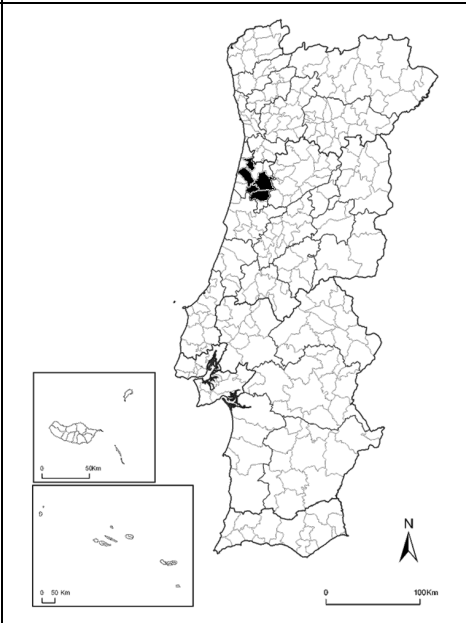


Fig. 264. Distribution map of *Surirella brebissonii* var. *kuetzingii*

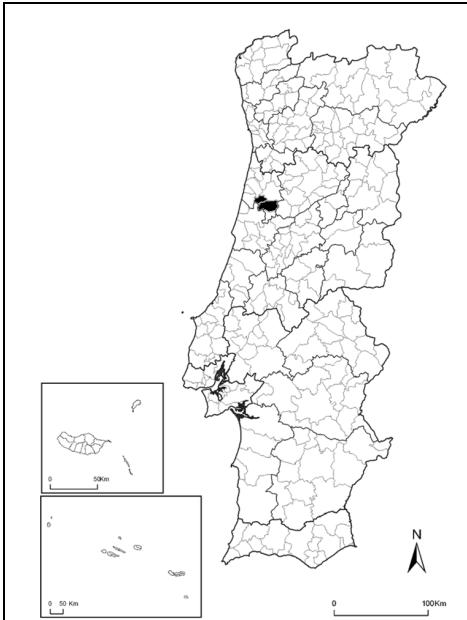


Fig. 265. Distribution map of *Surirella brightwellii*

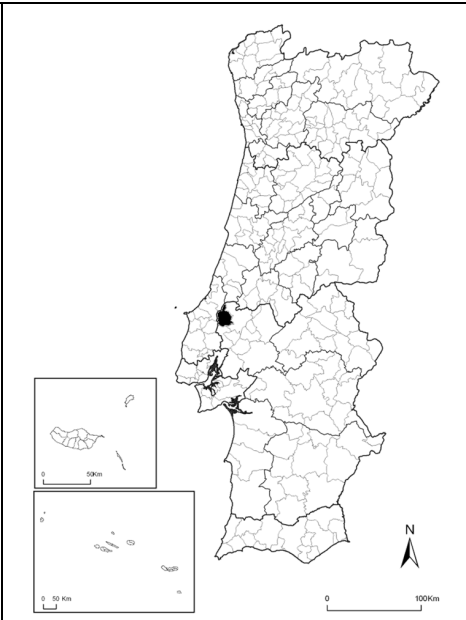


Fig. 266. Distribution map of *Surirella capronii*

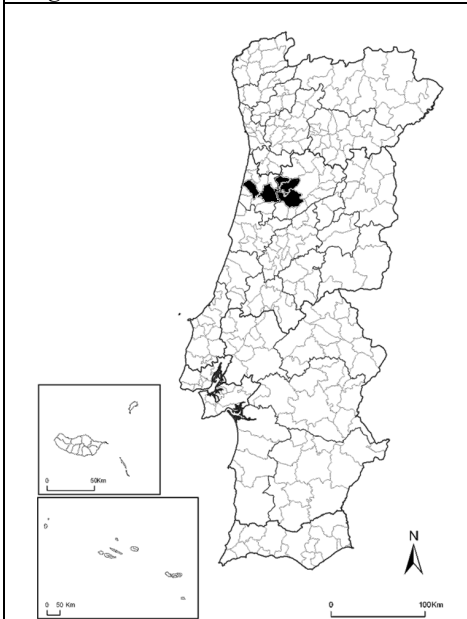


Fig. 267. Distribution map of *Surirella celtica*

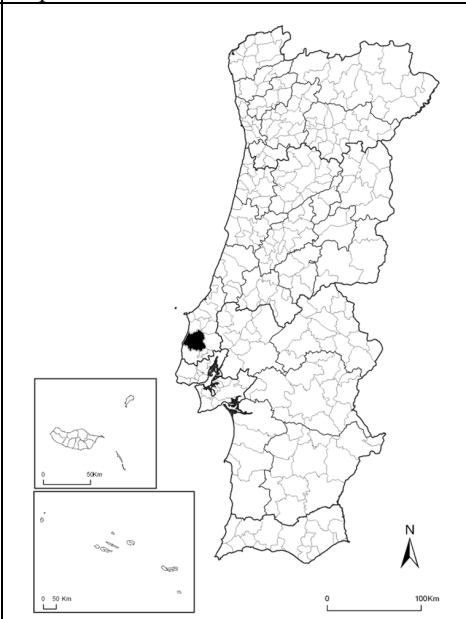


Fig. 268. Distribution map of *Surirella crumena*

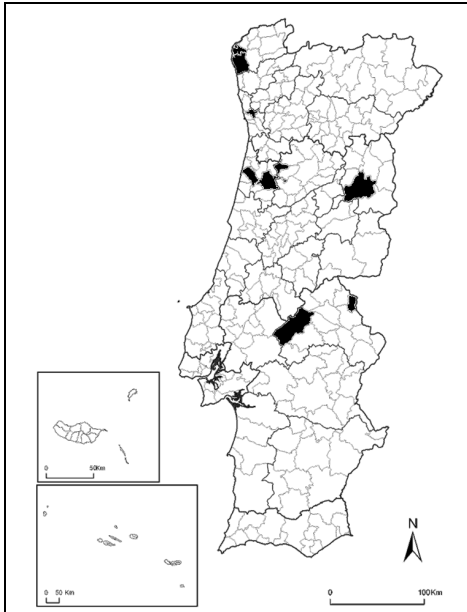


Fig. 269. Distribution map of *Surirella elegans*

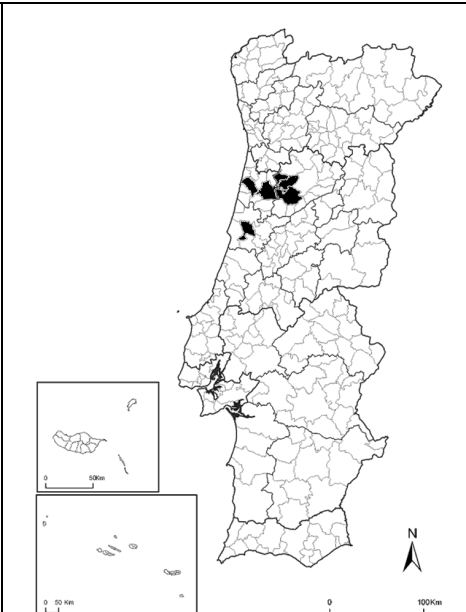


Fig. 270. Distribution map of *Surirella helvetica*

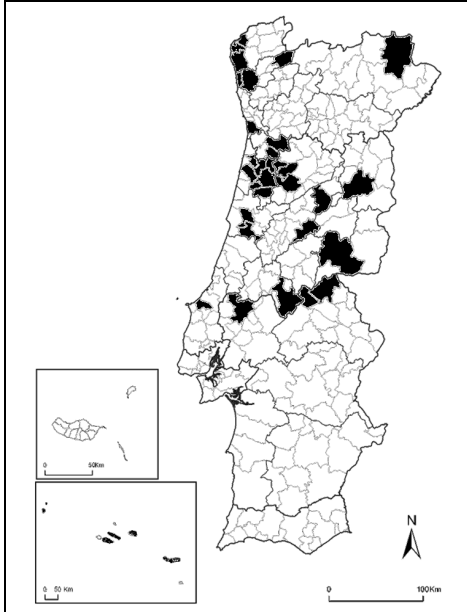


Fig. 271. Distribution map of *Surirella linearis*

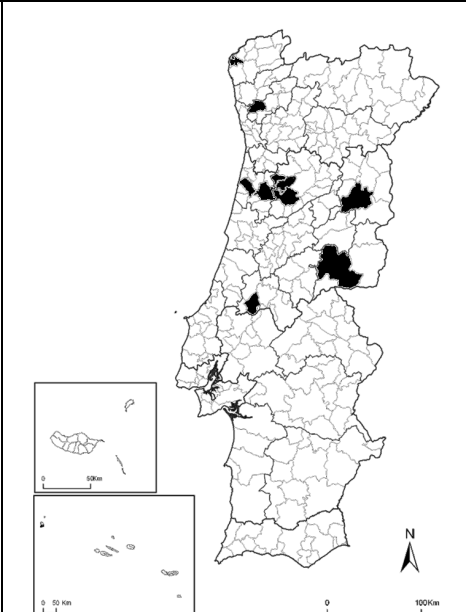


Fig. 272. Distribution map of *Surirella linearis* var. *constricta*

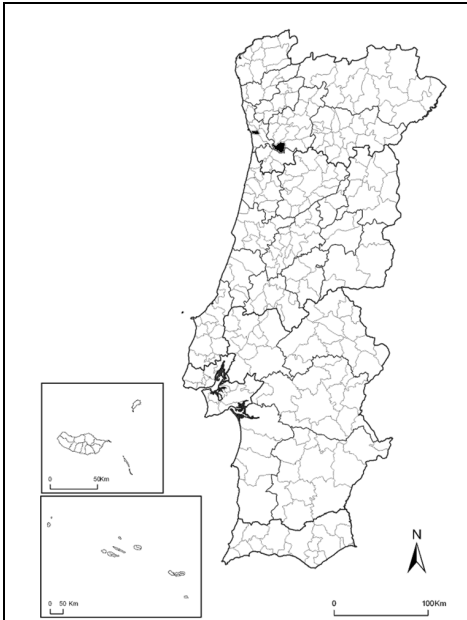


Fig. 273. Distribution map of *Surirella linearis* var. *elliptica*

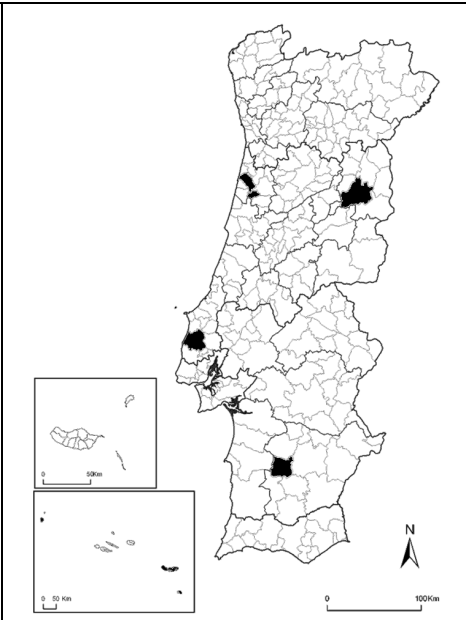


Fig. 274. Distribution map of *Surirella minuta*

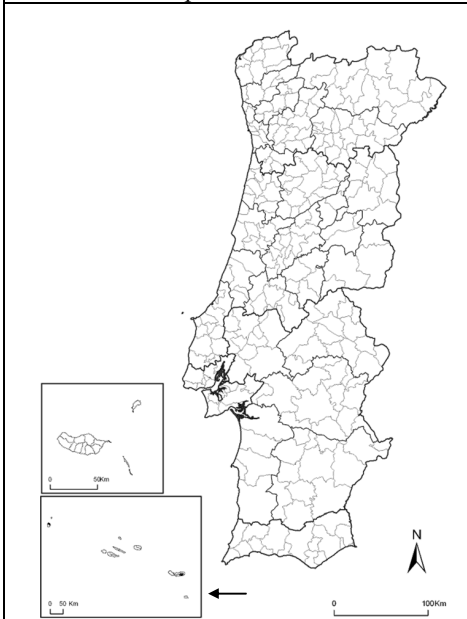


Fig. 275. Distribution map of *Surirella moelleriana*

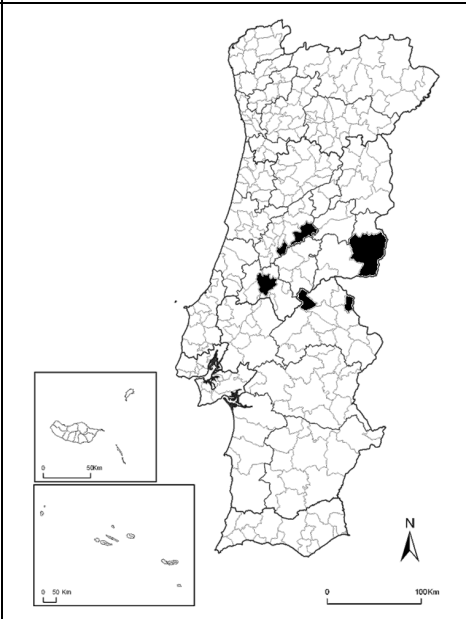


Fig. 276. Distribution map of *Surirella nana*

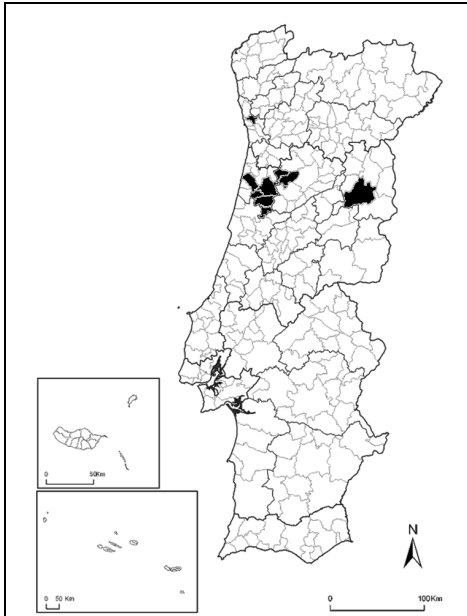


Fig. 277. Distribution map of *Surirella nervosa*

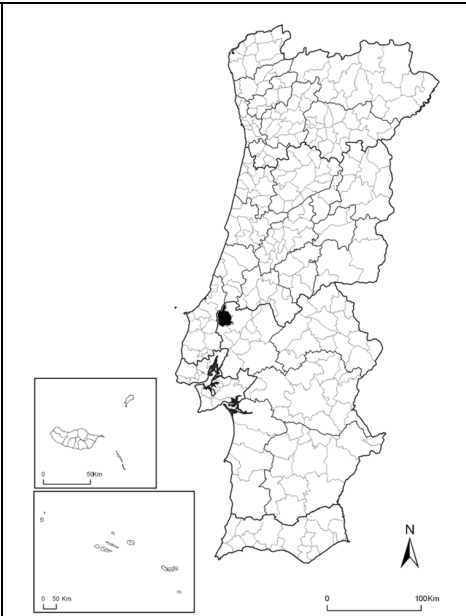


Fig. 278. Distribution map of *Surirella oblonga*

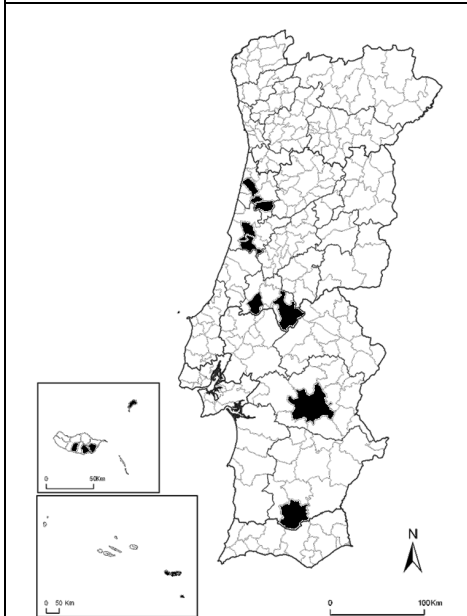


Fig. 279. Distribution map of *Surirella ovalis*

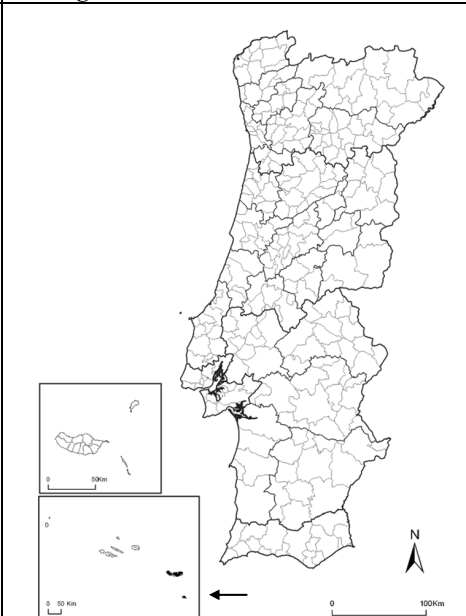


Fig. 280. Distribution map of *Surirella ovalis* var. *apiculata*

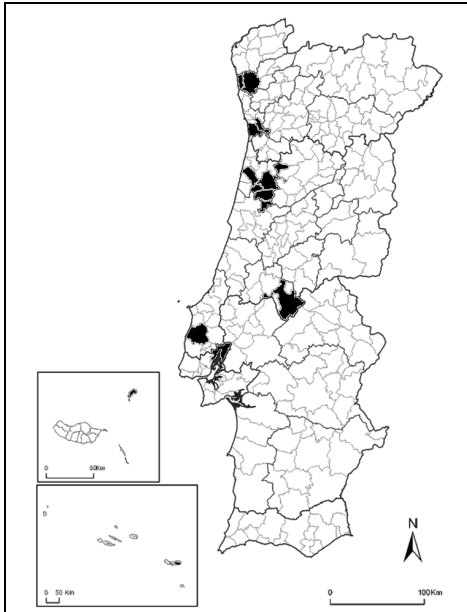


Fig. 281. Distribution map of *Surirella ovata*

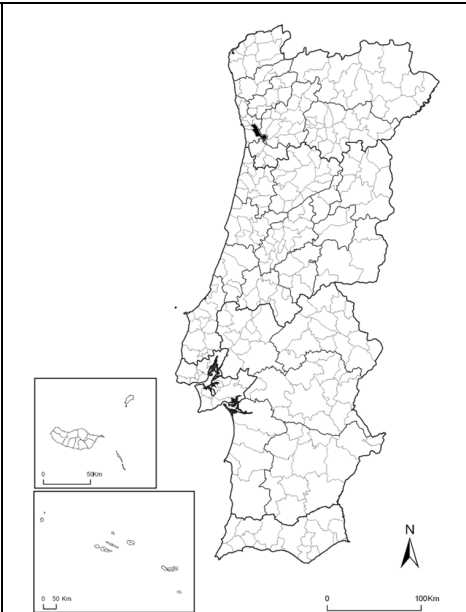


Fig. 282. Distribution map of *Surirella ovata* var. *salina*

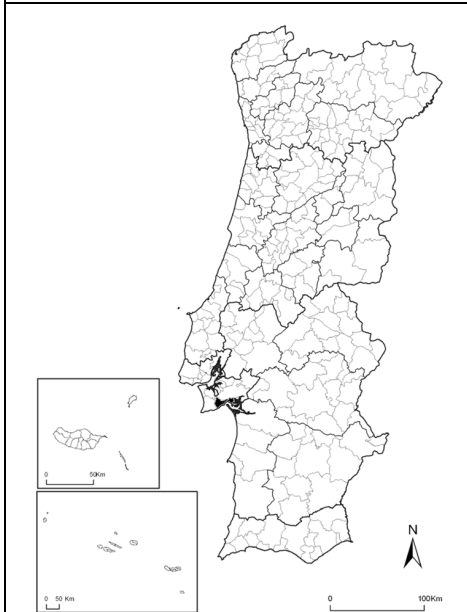


Fig. 283. Distribution map of *Surirella pinnata*

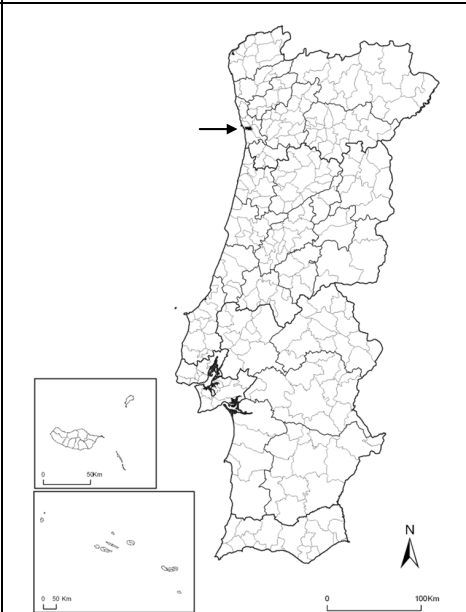


Fig. 284. Distribution map of *Surirella ratrayi*

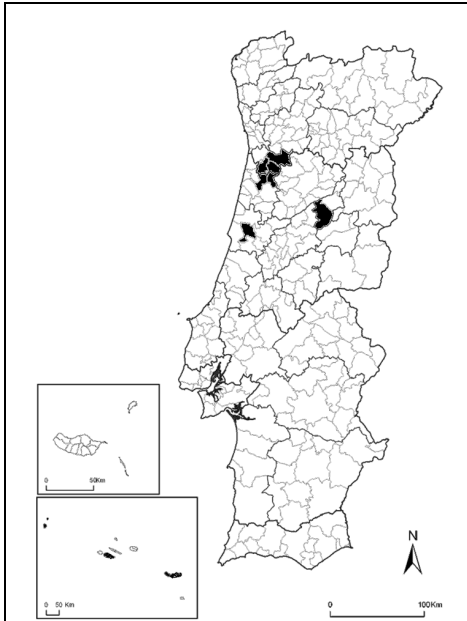


Fig. 285. Distribution map of *Surirella roba*

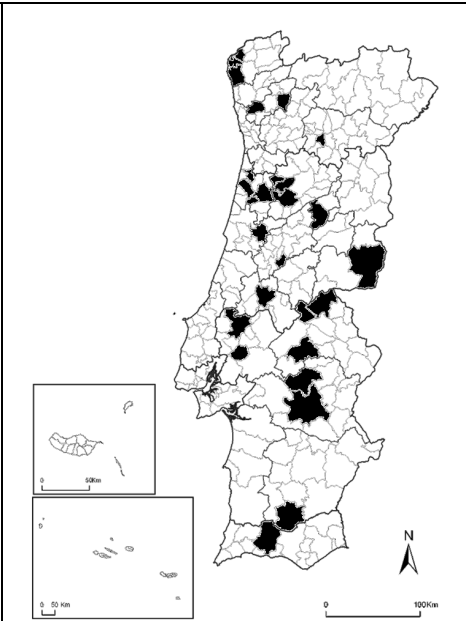


Fig. 286. Distribution map of *Surirella robusta*

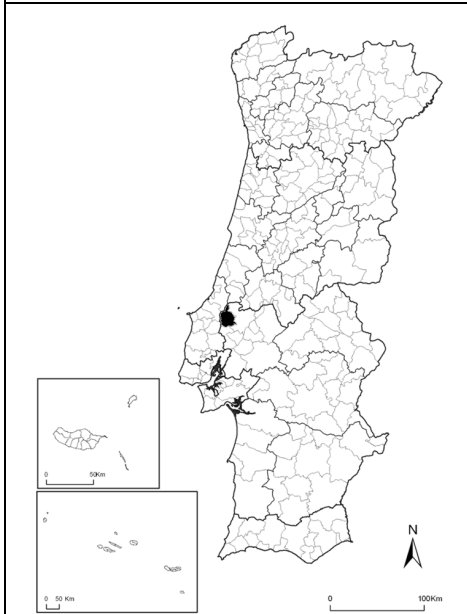


Fig. 287. Distribution map of *Surirella smithii*

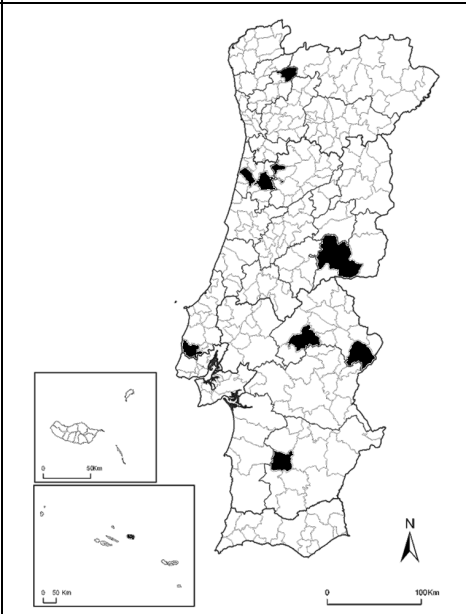


Fig. 288. Distribution map of *Surirella splendida*

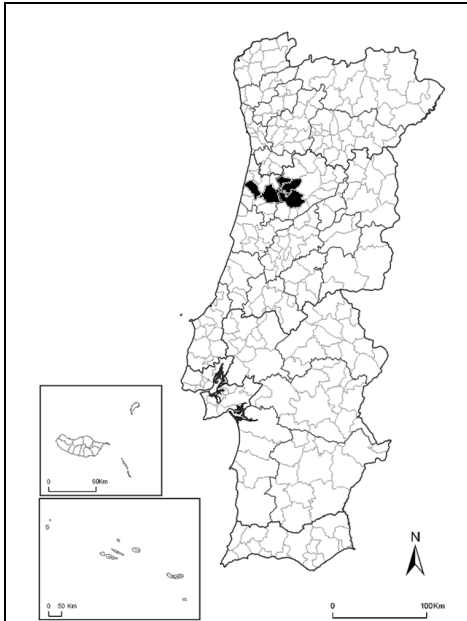


Fig. 289. Distribution map of *Surirella sublinearis*

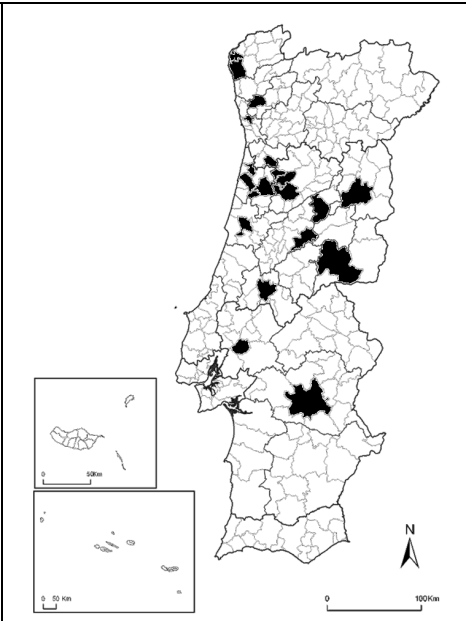


Fig. 290. Distribution map of *Surirella tenera*

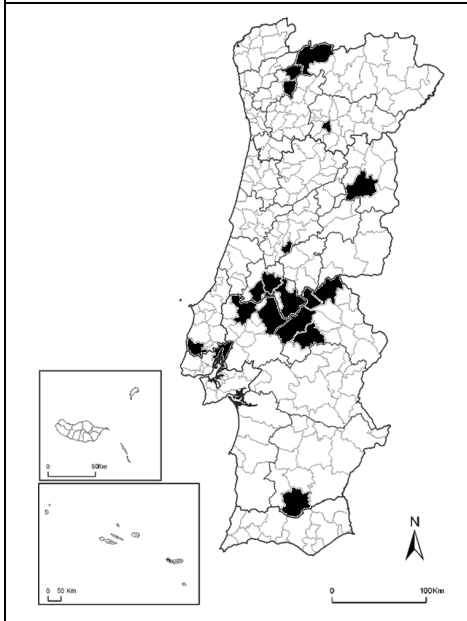


Fig. 291. Distribution map of *Surirella tenera* var. *splendidula*

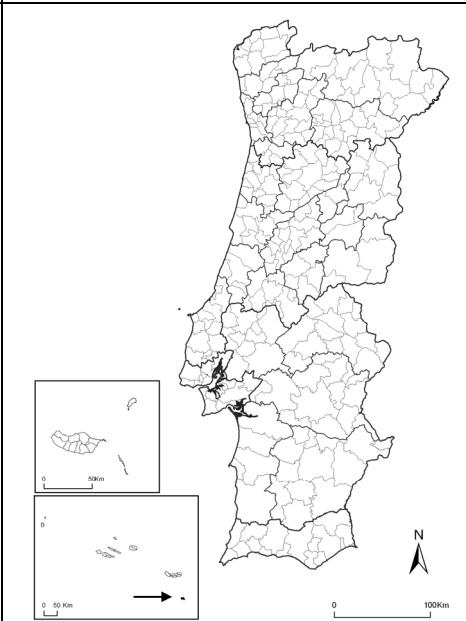


Fig. 292. Distribution map of *Surirella terricola*

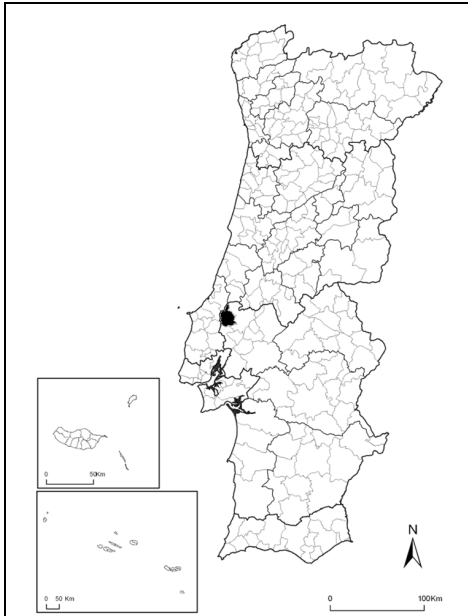


Fig. 293. Distribution map of *Surirella turgida*

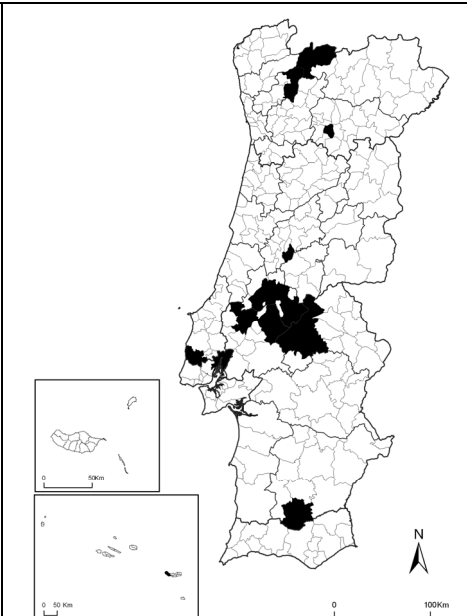


Fig. 294. Distribution map of *Surirella* sp.

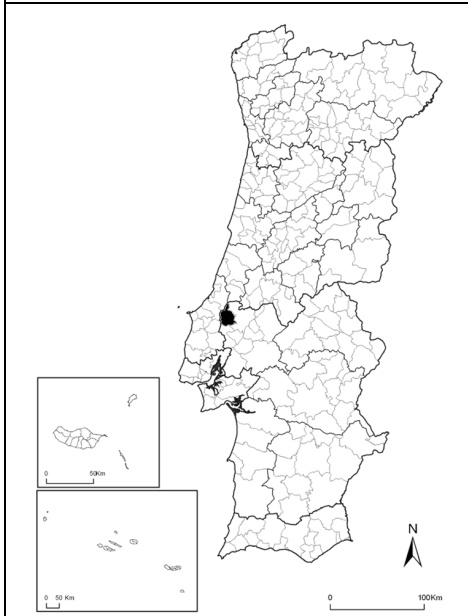


Fig. 295. Distribution map of *Synedra affinis* var. *fasciculata*

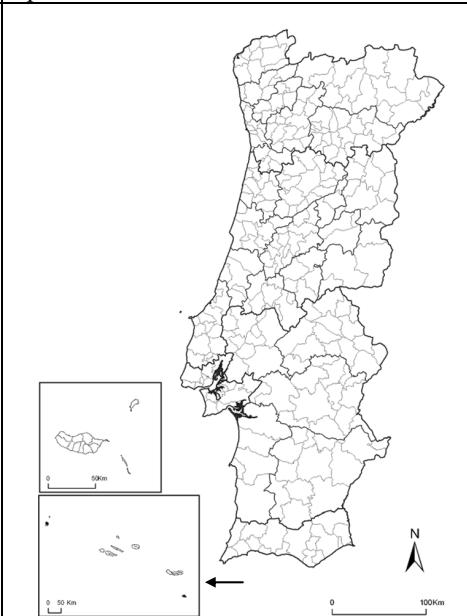


Fig. 296. Distribution map of *Synedra allorgei*

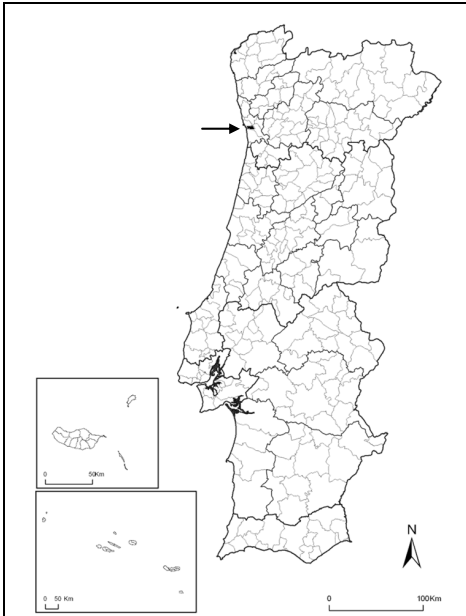


Fig. 297. Distribution map of *Synedra crystallina*

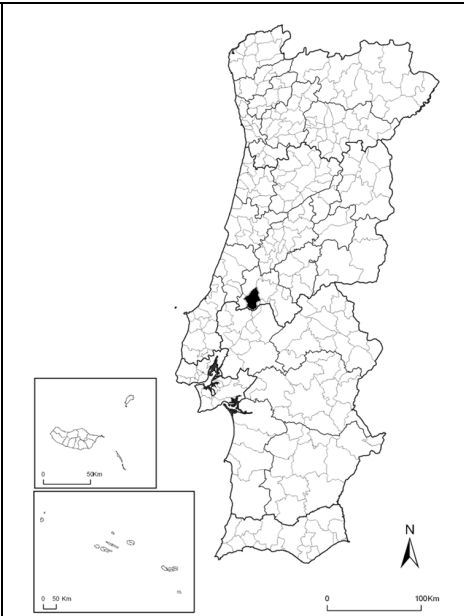


Fig. 298. Distribution map of *Synedra cunningtonii*

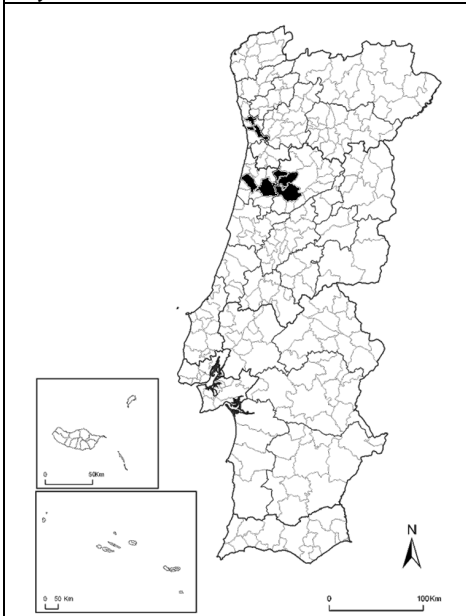


Fig. 299. Distribution map of *Synedra familiaris*

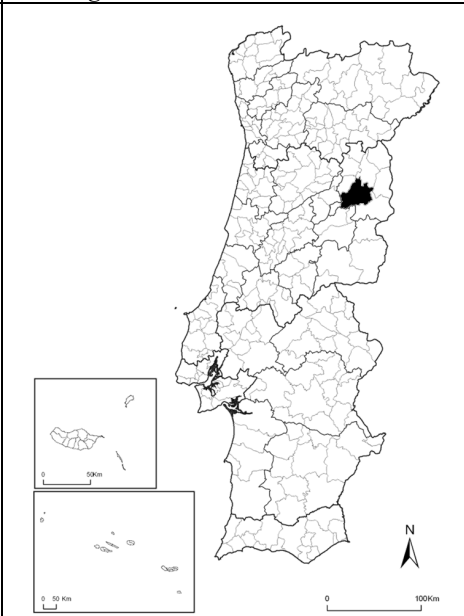


Fig. 300. Distribution map of *Synedra (rumpens var.?) familiaris f. parva*

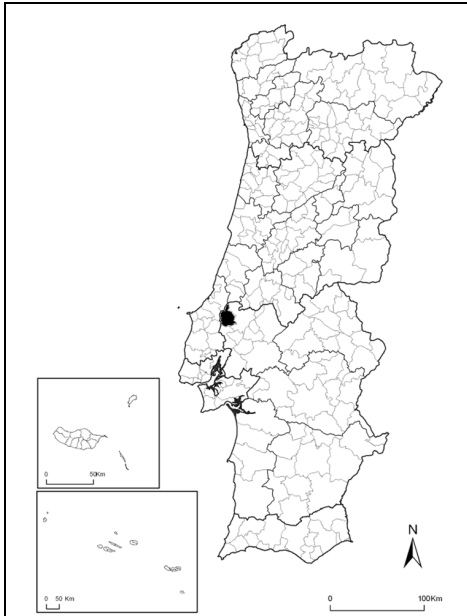


Fig. 301. Distribution map of *Synedra gaillonii*

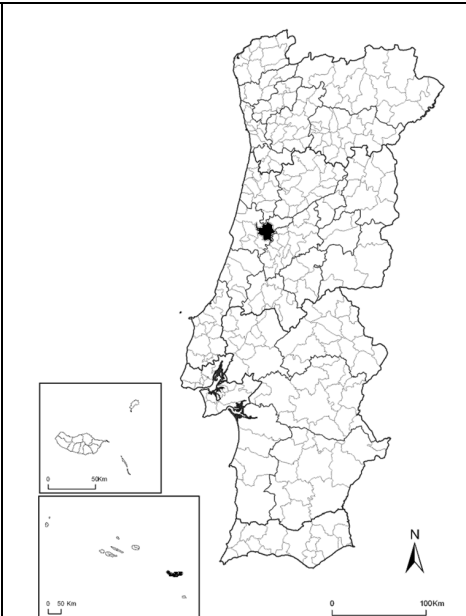


Fig. 302. Distribution map of *Synedra gracilis*

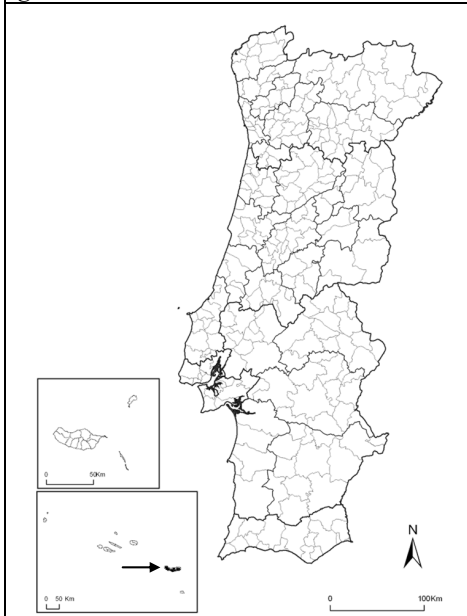


Fig. 303. Distribution map of *Synedra parva*

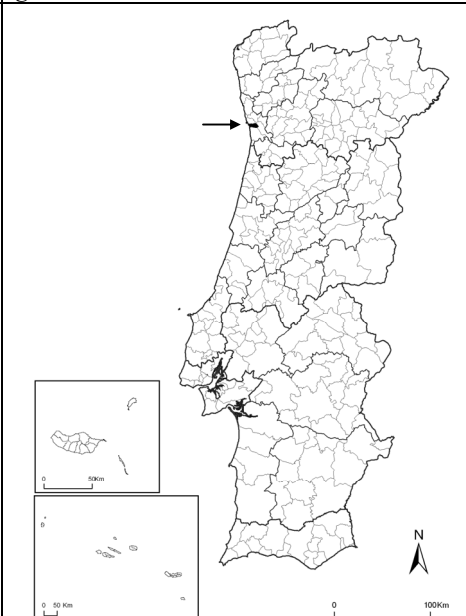


Fig. 304. Distribution map of *Synedra pinnata*

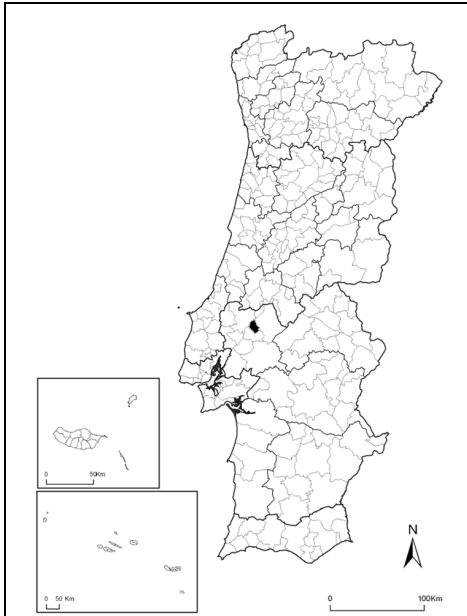


Fig. 305. Distribution map of *Synedra polymorpha*

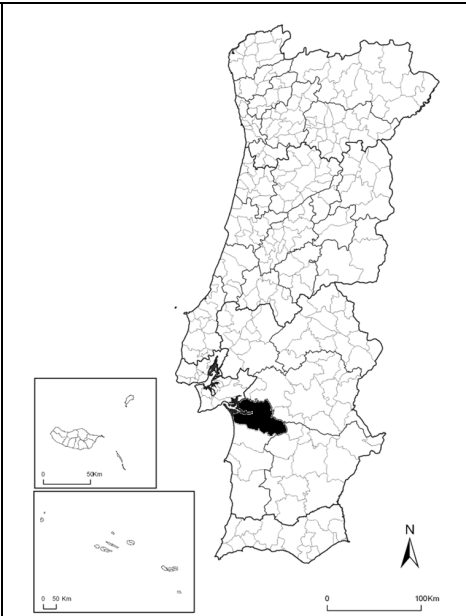


Fig. 306. Distribution map of *Synedra tabulata* var. *hybrida*

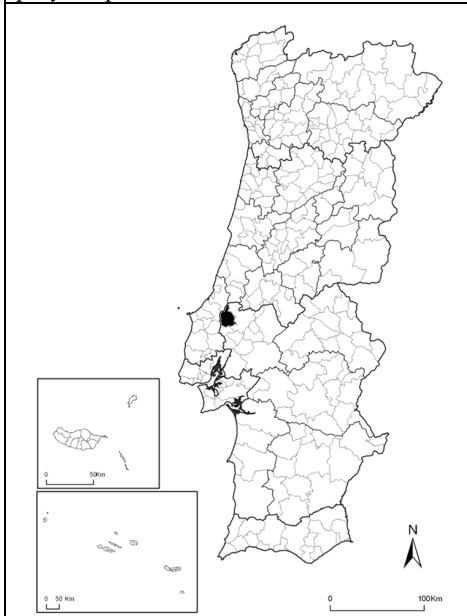


Fig. 307. Distribution map of *Synedra tenuis*

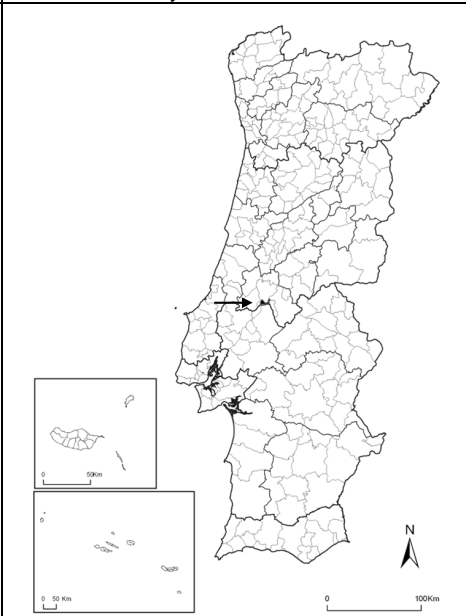


Fig. 308. Distribution map of *Synedra torta*

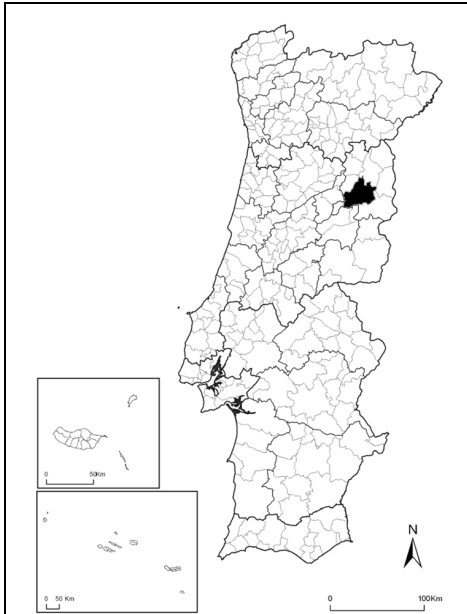


Fig. 309. Distribution map of *Synedra ulna* var. *bicurvata*

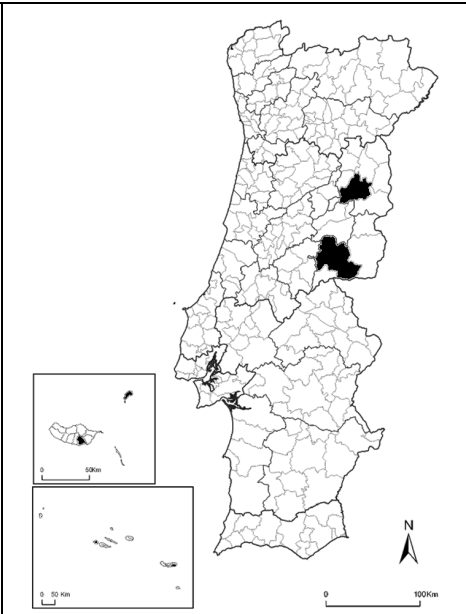


Fig. 310. Distribution map of *Synedra ulna* var. *longissima*

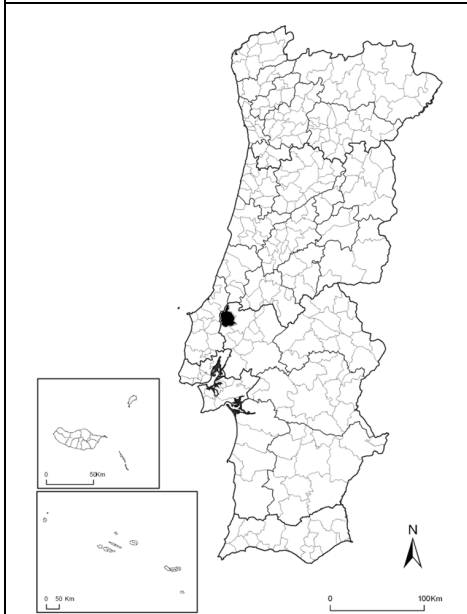


Fig. 311. Distribution map of *Synedra vitrea*

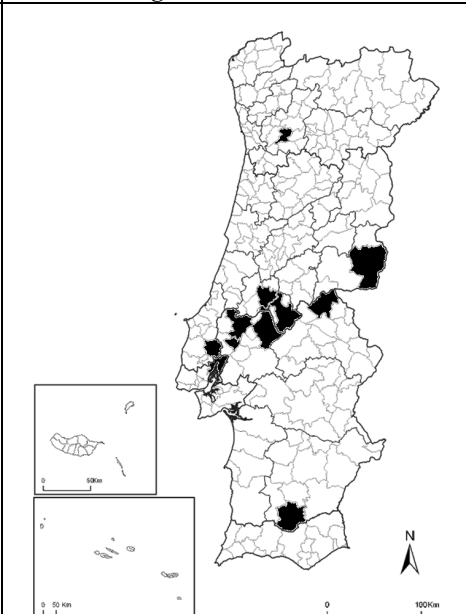


Fig. 312. Distribution map of *Synedra* sp.

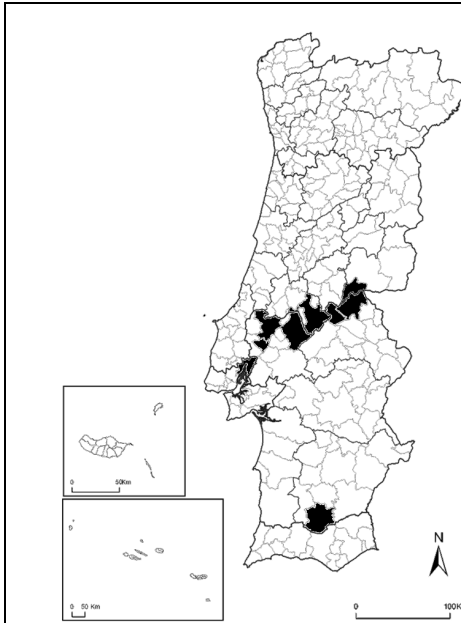


Fig. 313. Distribution map of *Tabellaria fenestrata*

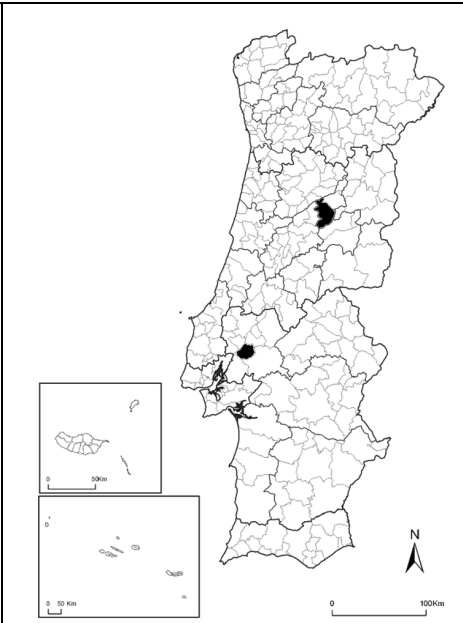


Fig. 314. Distribution map of *Tabellaria fenestrata* f. *intermedia*

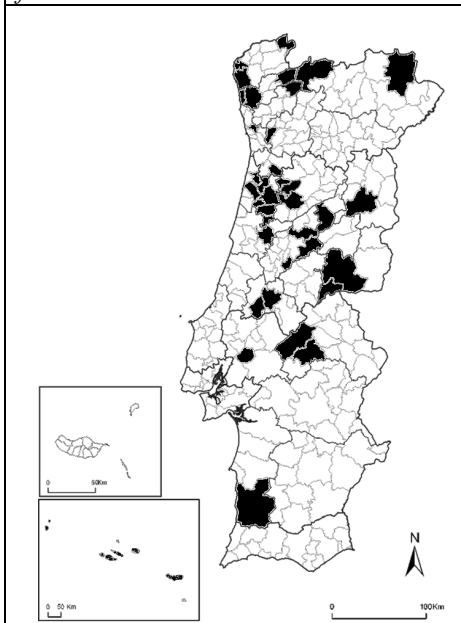


Fig. 315. Distribution map of *Tabellaria flocculosa*

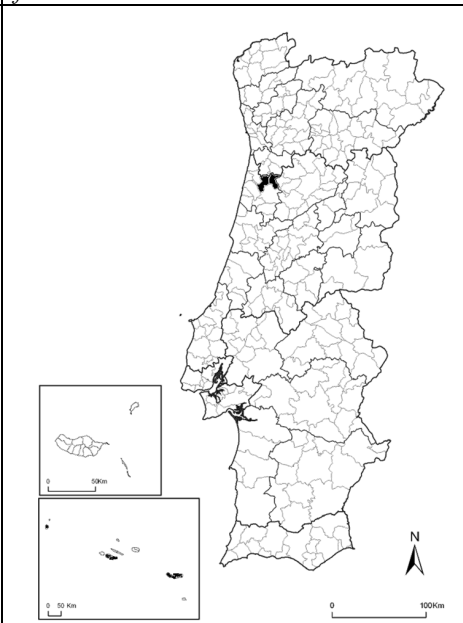


Fig. 316. Distribution map of *Tabellaria ventricosa*

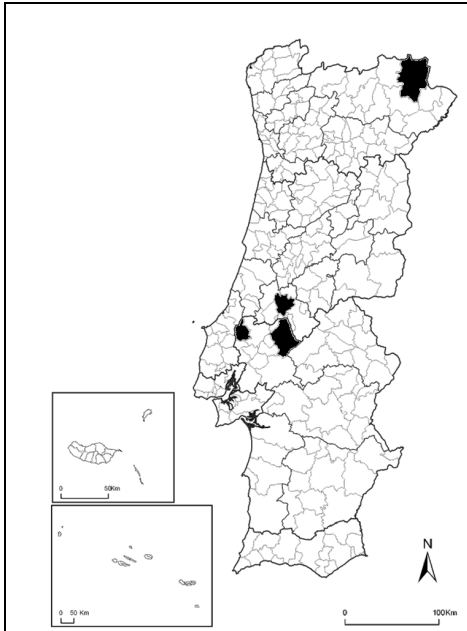


Fig. 317. Distribution map of *Tabellaria* sp.

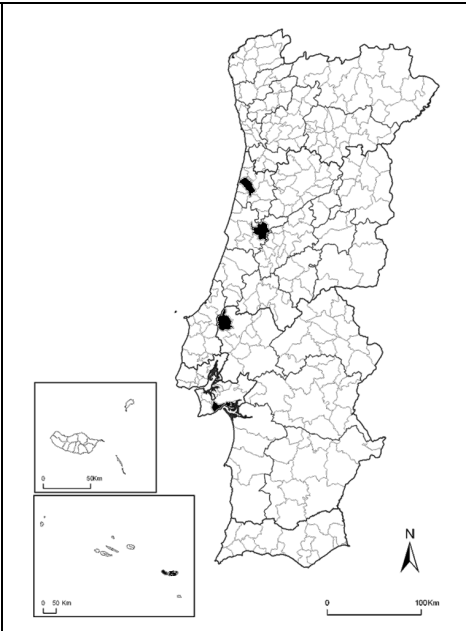


Fig. 318. Distribution map of *Tabularia affinis*

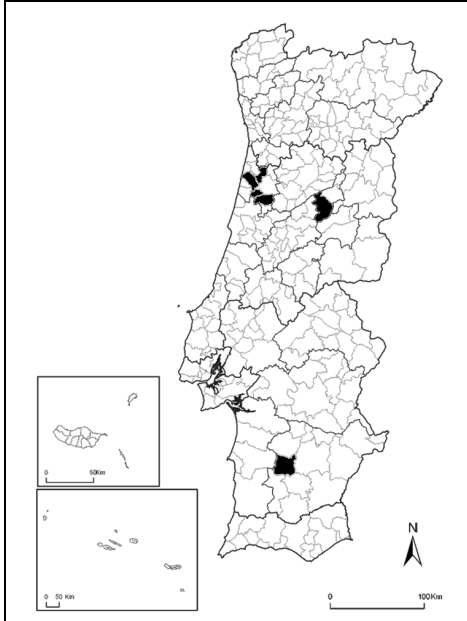


Fig. 319. Distribution map of *Tabularia fasciculata*

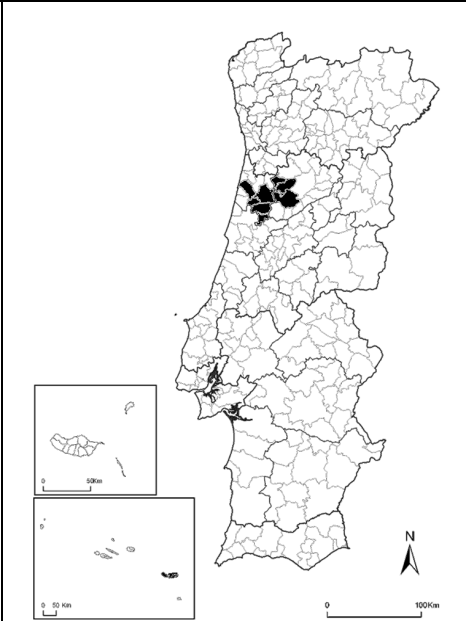


Fig. 320. Distribution map of *Tabularia tabulata*

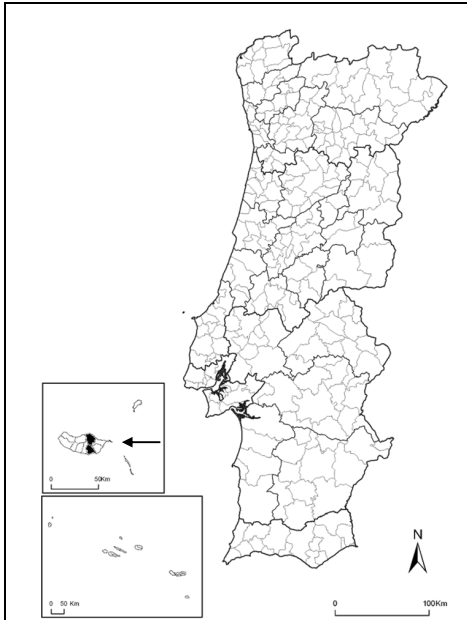


Fig. 321. Distribution map of *Tetracyclus braunii*

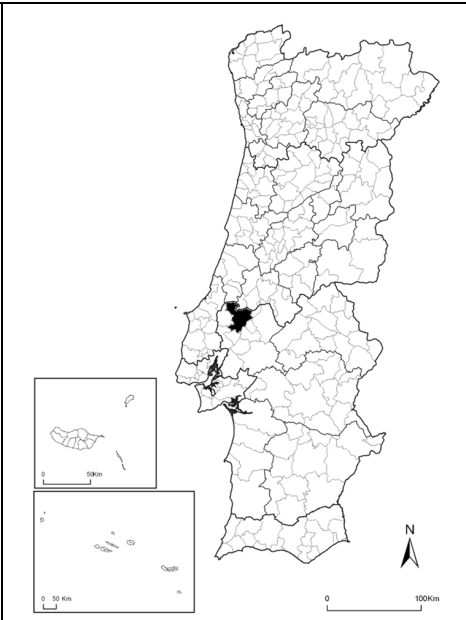


Fig. 322. Distribution map of *Thalassiosira decipiens*

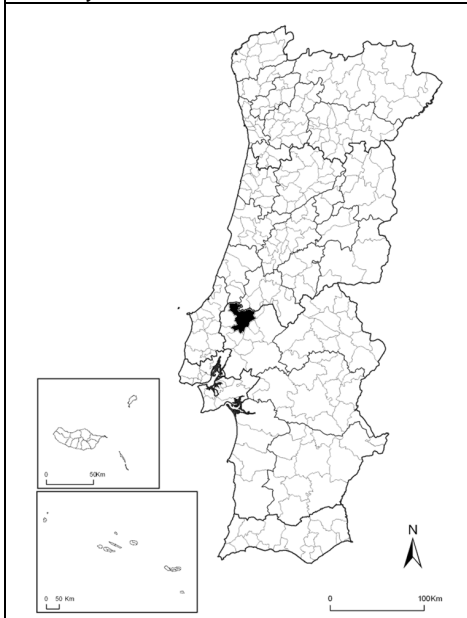


Fig. 323. Distribution map of *Thalassiosira fallax*

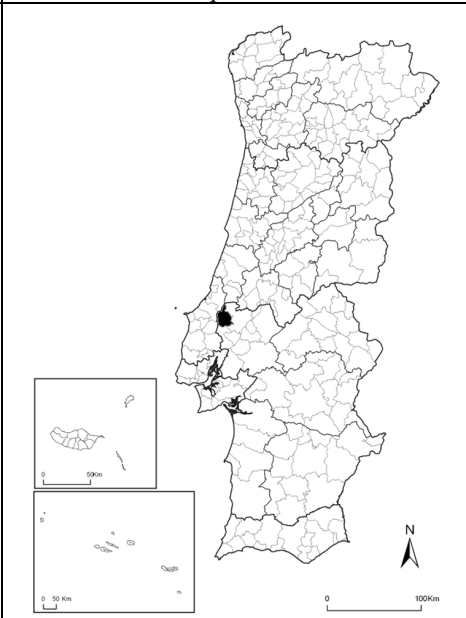


Fig. 324. Distribution map of *Thalassiosira fluviatilis*

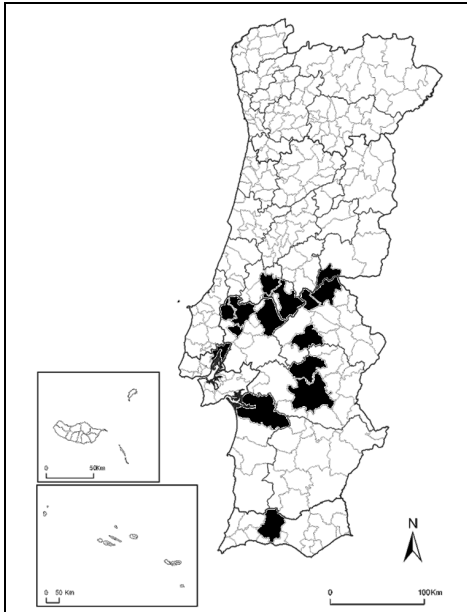


Fig. 325. Distribution map of *Thalassiosira lacustris*

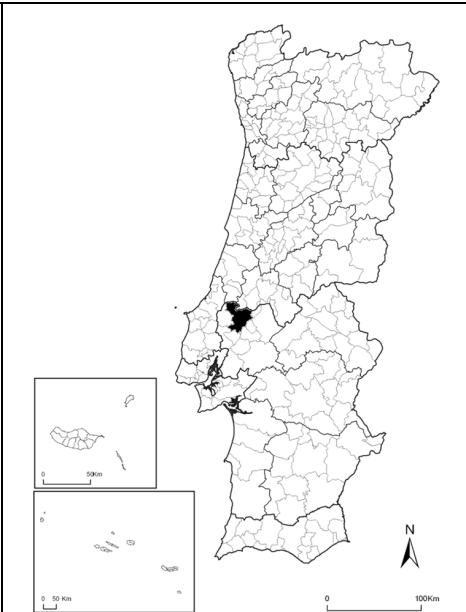


Fig. 326. Distribution map of *Thalassiosira nana*

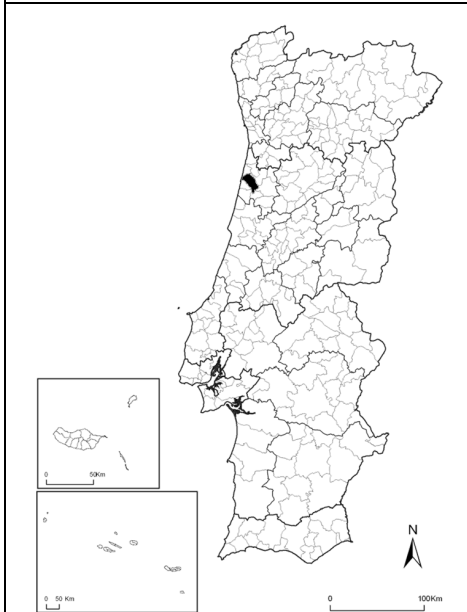


Fig. 327. Distribution map of *Thalassiosira pseudonana*

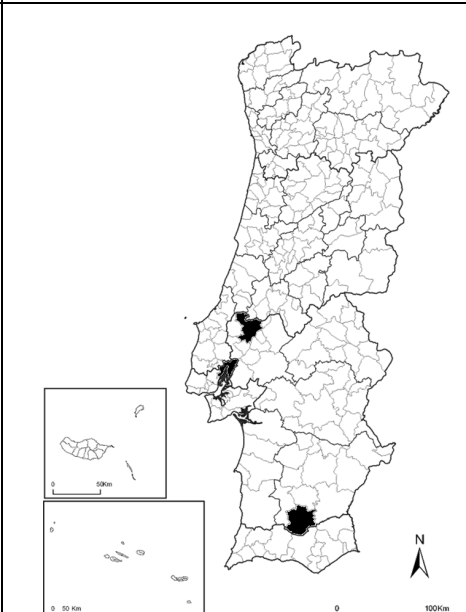


Fig. 328. Distribution map of *Thalassiosira* sp.

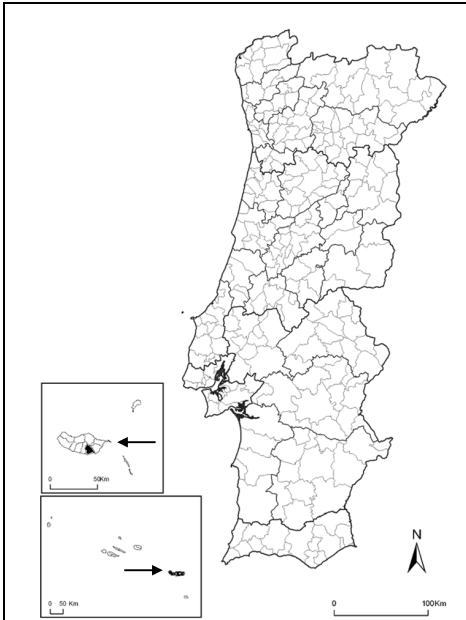


Fig. 329. Distribution map of *Tryblionella angustata*

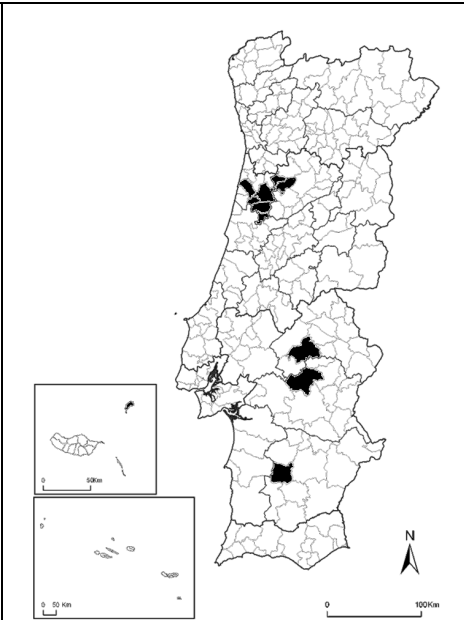


Fig. 330. Distribution map of *Tryblionella apiculata*

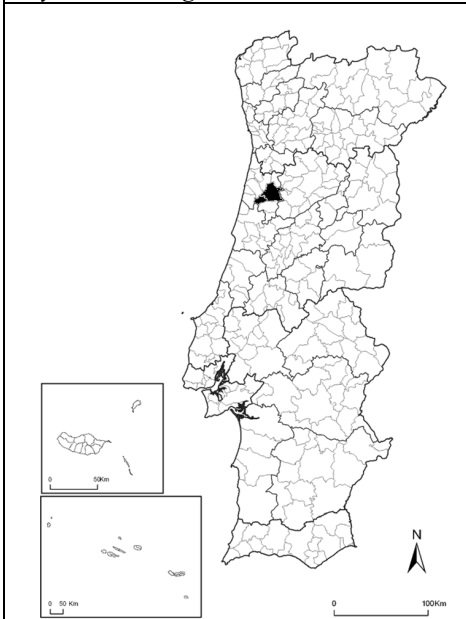


Fig. 331. Distribution map of *Tryblionella calida*

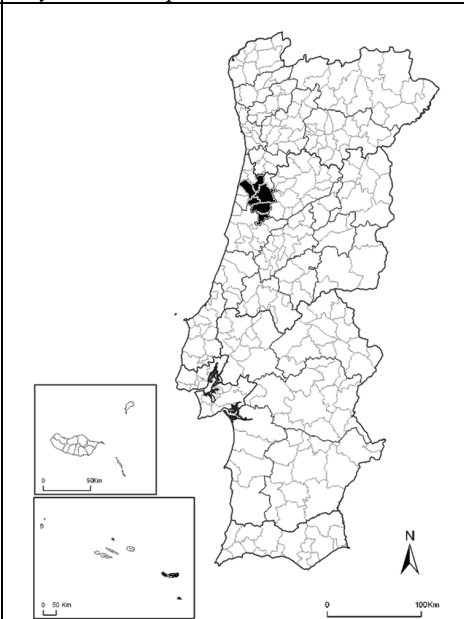


Fig. 332. Distribution map of *Tryblionella debilis*

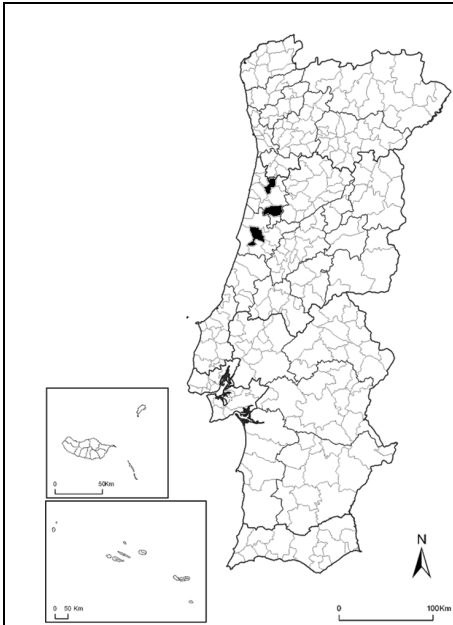


Fig. 333. Distribution map of *Tryblionella granulata*

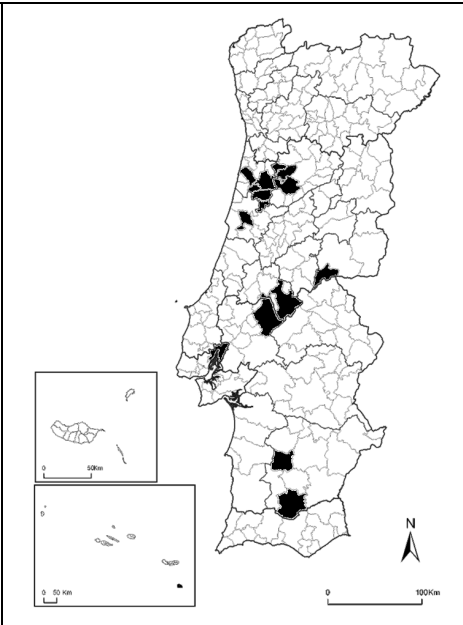


Fig. 334. Distribution map of *Tryblionella hungarica*

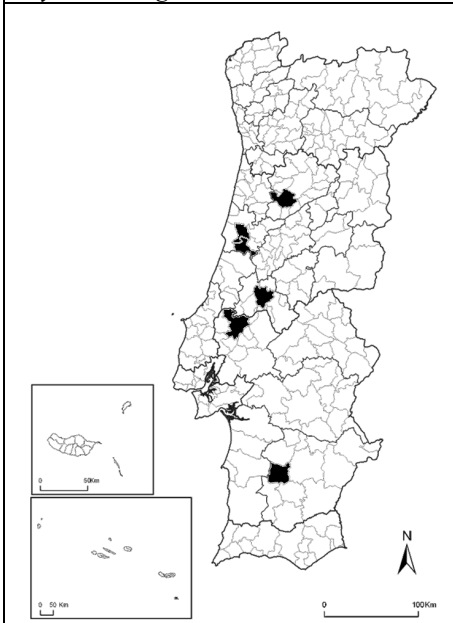


Fig. 335. Distribution map of *Tryblionella kuetzingii*

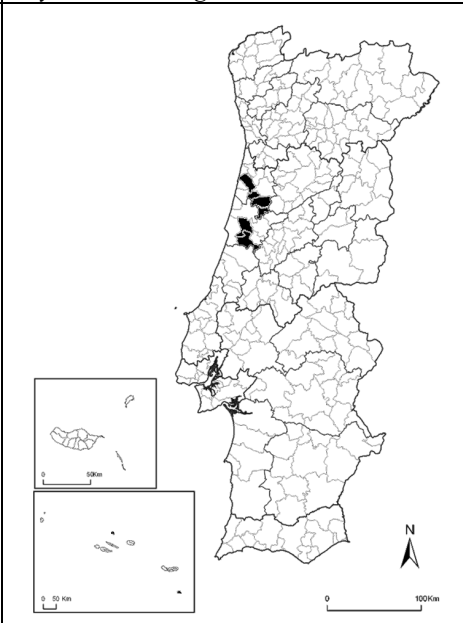


Fig. 336. Distribution map of *Tryblionella levidensis*

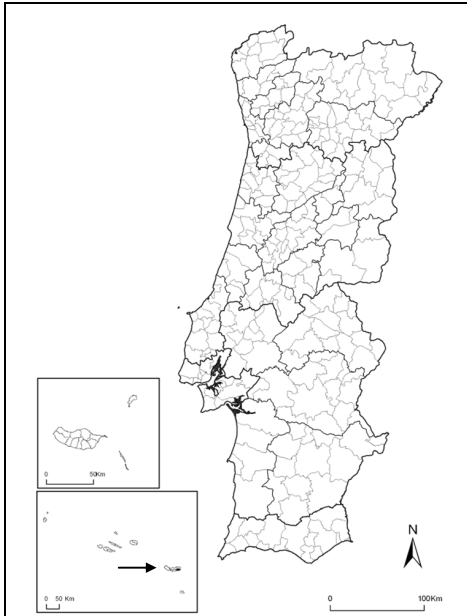


Fig. 337. Distribution map of *Tryblionella marginata*

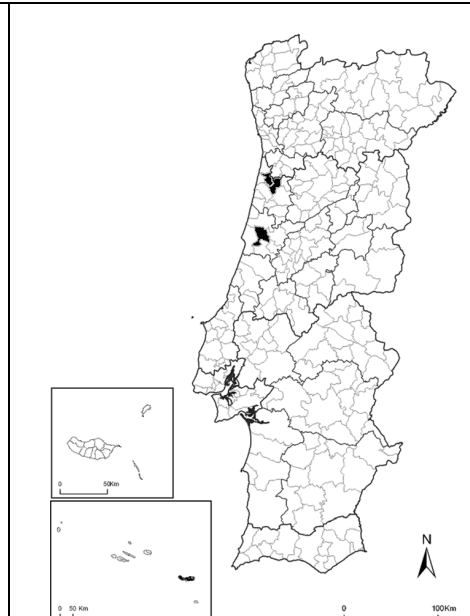


Fig. 338. Distribution map of *Tryblionella navicularis*

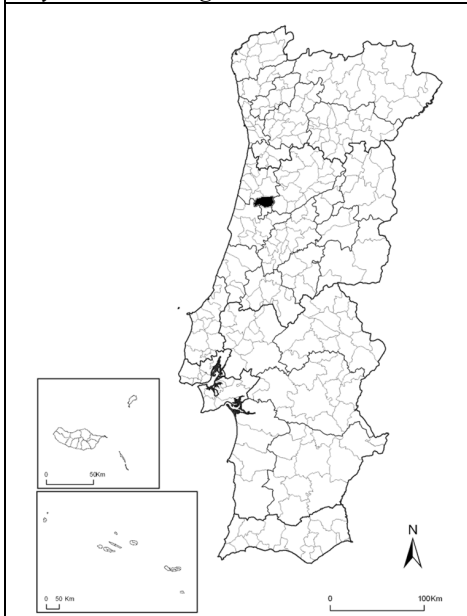


Fig. 339. Distribution map of *Tryblionella punctata*

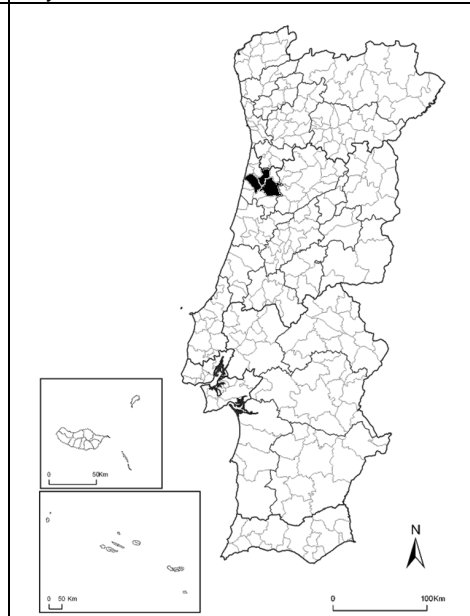


Fig. 340. Distribution map of *Tryblionella scalaris*

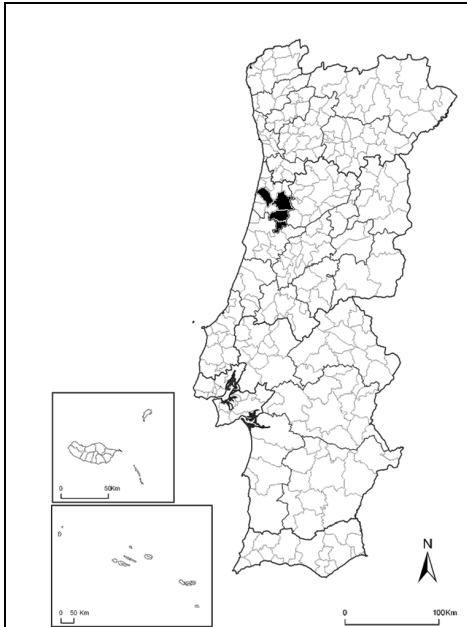


Fig. 341. Distribution map of *Tryblionella victoriae*

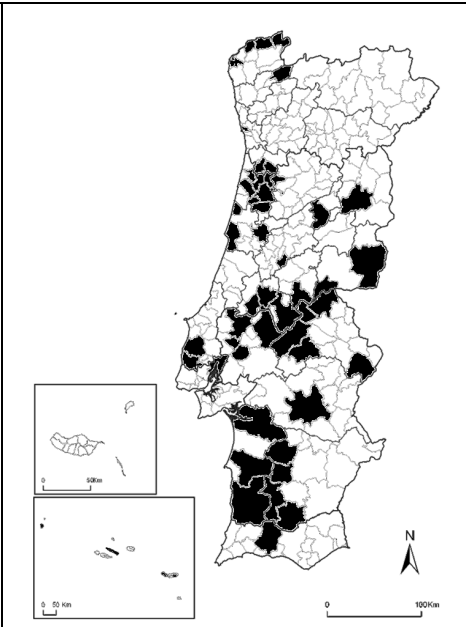


Fig. 342. Distribution map of *Ulnaria acus*

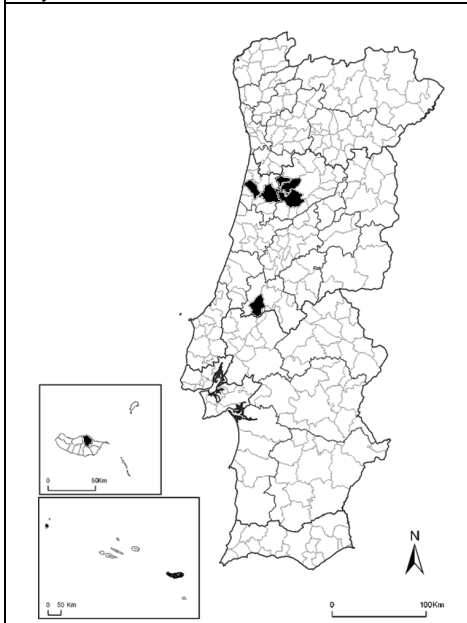


Fig. 343. Distribution map of *Ulnaria amphirhynchus*

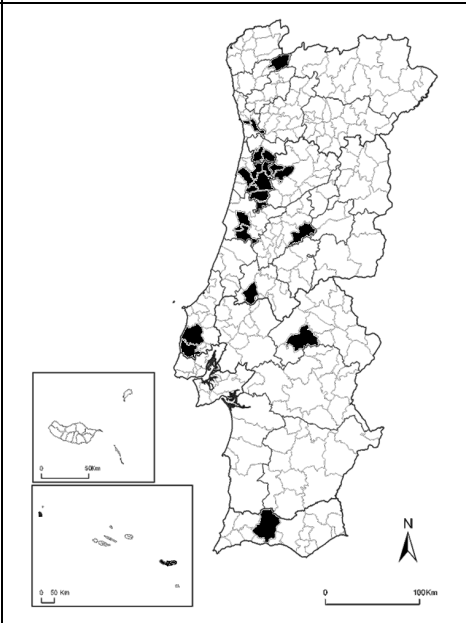


Fig. 344. Distribution map of *Ulnaria biceps*

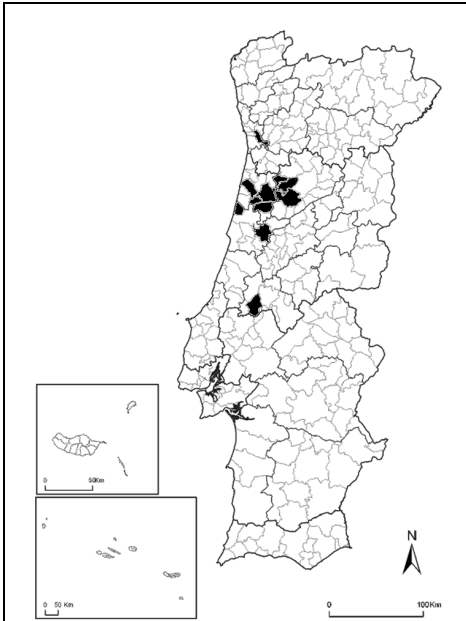


Fig. 345. Distribution map of *Ulnaria capitata*

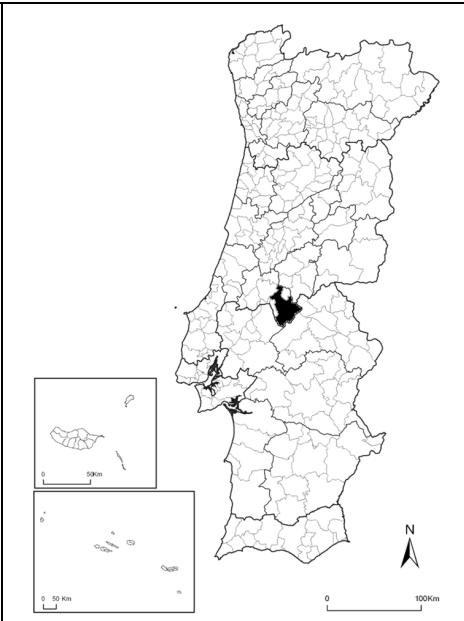


Fig. 346. Distribution map of *Ulnaria contracta*

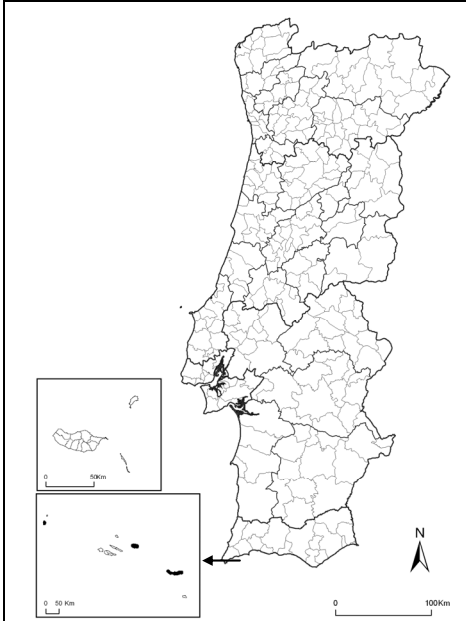


Fig. 347. Distribution map of *Ulnaria delicatissima*

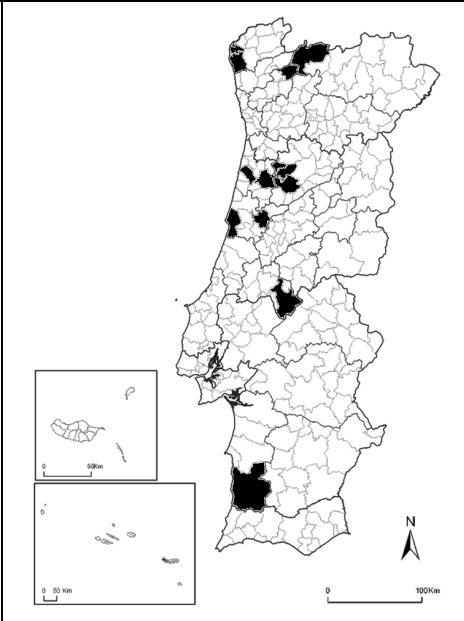


Fig. 348. Distribution map of *Ulnaria delicatissima* var. *angustissima*

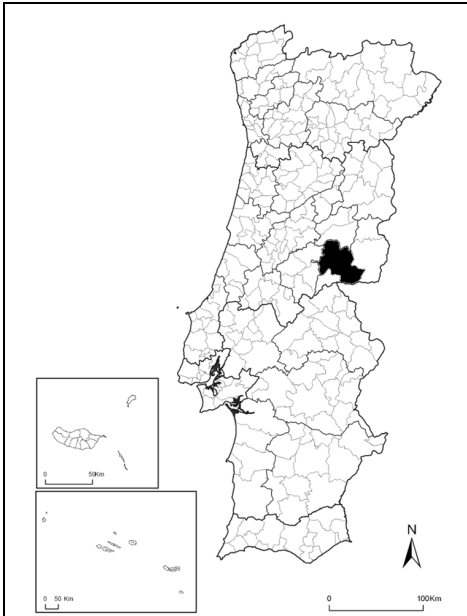


Fig. 349. Distribution map of *Ulnaria lanceolata*

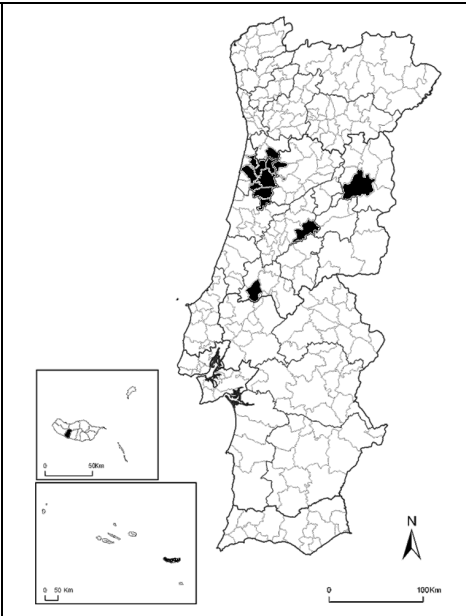


Fig. 350. Distribution map of *Ulnaria oxyrhynchus*

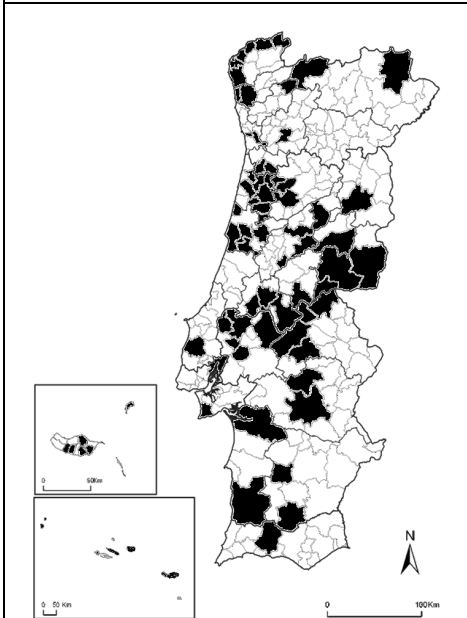


Fig. 351. Distribution map of *Ulnaria ulna*

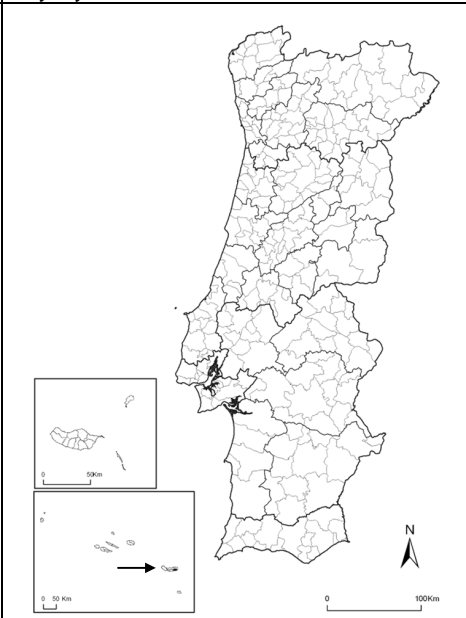


Fig. 352. Distribution map of *Ulnaria ulna* var. *aequalis*

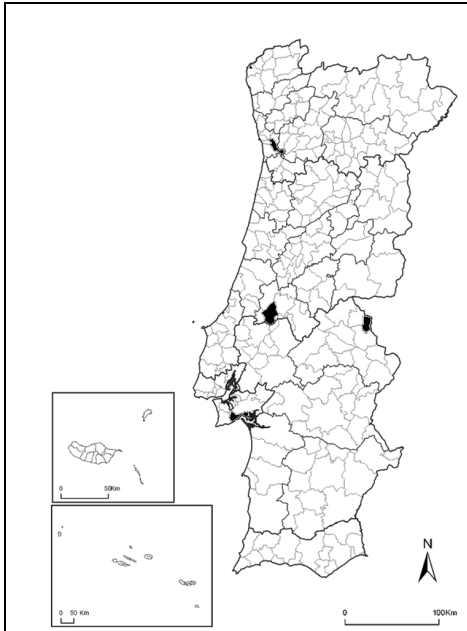


Fig. 353. Distribution map of *Ulnaria ulna* var. *spathulifera*

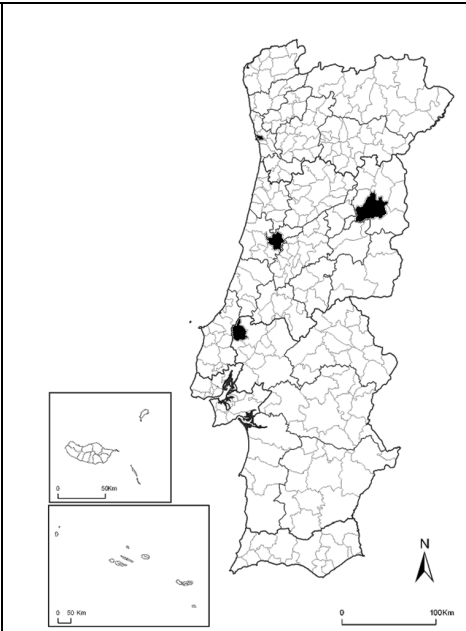


Fig. 354. Distribution map of *Ulnaria ulna* var. *splendens*

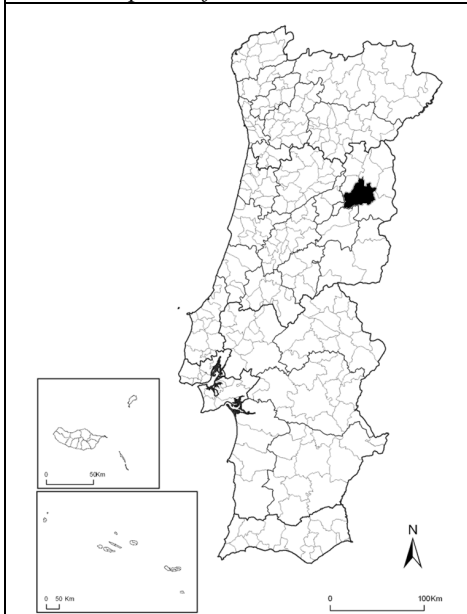


Fig. 355. Distribution map of *Ulnaria ulna* var. *subaequalis*

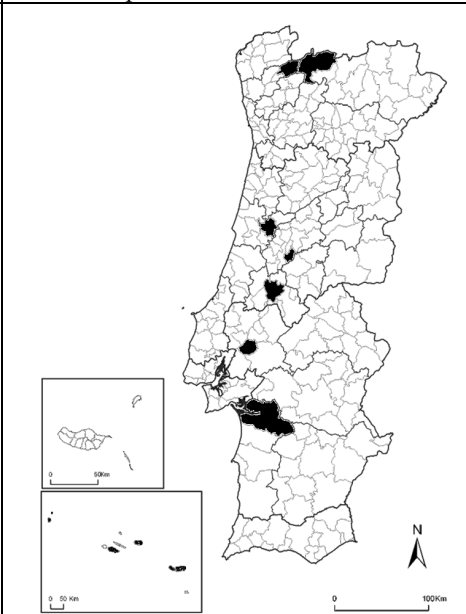
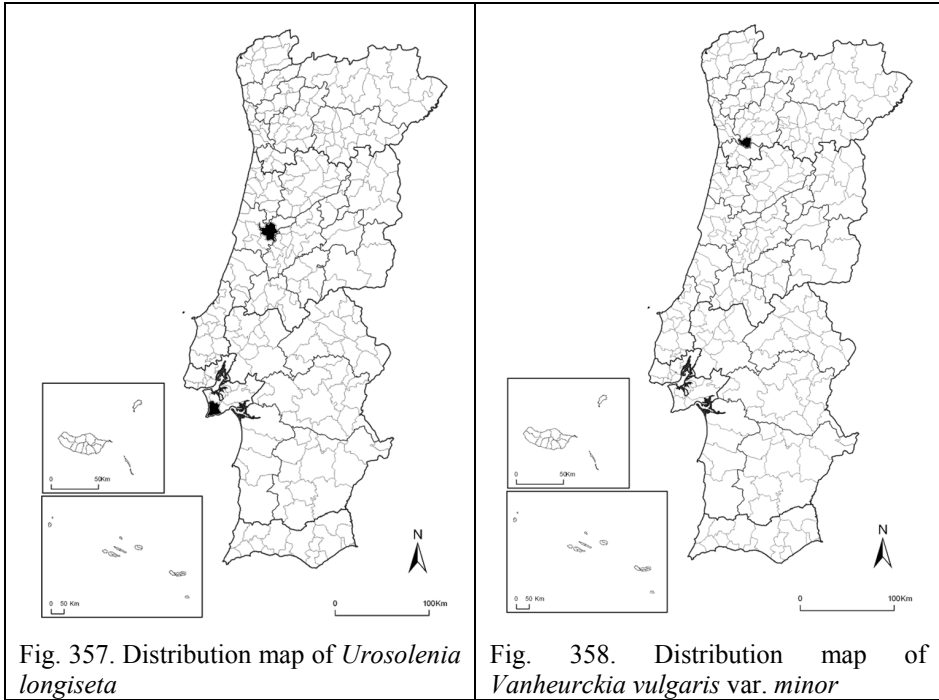


Fig. 356. Distribution map of *Urosolenia eriensis*



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