

Prejeto / Received: 12.11.2012  
Sprejeto / Accepted: 2.12.2012

# Contribution to the knowledge on the distribution of Recent free-living freshwater ostracods (Podocopida, Ostracoda, Crustacea) in Slovenia

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**Abstract.** An updated checklist of Recent free-living freshwater ostracods (Podocopida, Ostracoda, Crustacea) from Slovenia together with new records is presented. The new checklist is based on both the records extracted from the literature and the sampling in the field carried out during the last decade. The present checklist comprises 61 species. However, the eastern part of Slovenia and the surface waters are underrepresented. It is expected that the number of species will increase in the future.

Key words: Ostracoda, species, fauna, freshwaters, groundwaters

**Izleček. PRISPEVEK K POZNAVANJU RAZŠIRJENOSTI RECENTNIH PROSTOŽIVEČIH DVOKLOPNIKOV (PODOCOPIDA, OSTRACODA, CRUSTACEA) V CELINSKIH VODAH SLOVENIJE –** Avtorja predstavljata najnovejši seznam recentnih vrst prostoživečih dvoklopnikov (Podocopida, Ostracoda, Crustacea) iz celinskih voda Slovenije ter nove najdbe za Slovenijo. Novi seznam temelji na podatkih, povzetih iz obstoječih publikacij, ter podatkih, pridobljenih med terenskim vzorčenjem v zadnjih 10 letih, ter vsebuje 61 vrst. Pričakovati je, da je število vrst veliko večje, saj primanjkuje podatkov iz vzhodne Slovenije in iz površinskih vod, ki so manj intenzivno vzorčevane kot podzemne vode.

Ključne besede: Ostracoda, vrste, favna, celinske vode, podzemne vode

## Introduction

Despite the fact that Slovenia is being recognized as a biodiversity hotspot, a preliminary list of Recent free-living freshwater ostracods (Podocopida, Ostracoda, Crustacea) from Slovenia reports only 47 species (Griffiths & Brancelj 1996a). For comparison, in Western Europe, without the Mediterranean and Dinaric regions, 158 species (Meisch 2000) and, at the global scale, 2090 species belonging to about 209 genera are known at present (Martens & Savatnalinton 2011).

The first known record of ostracods for Slovenia is from the cave Podpeška jama at Dobropolje near Velike Lašče, where stygobiotic species »similar to *Cyclocypris ovum* but flatter« was mentioned (Joseph 1882). The next report is from Postojna, where two species were collected from the larger dripping pool in the cave Črna jama (Schmeil 1893). The species were named *Typhlocypris schmeili* and *Cypris pellucida* by G.W. Müller, but later never described. In 1920, Paris reported on *Typhlocypris eremita* (Veydovský, 1880), again from the cave Podpeška jama (Paris 1920). In the 1930's, Walter Klie described four new species from the caves Podpeška jama (*Candona aemonae* Klie, 1935; *Cypris stygia* Klie, 1935), Postojnska jama (*Candona trigonella* Klie, 1931) and Krška jama (*Candona cavicola* Klie, 1935) and an additional one from the Krka River near Novo mesto (*Leptocythere fluviatilis* Klie, 1939) (Klie 1931, 1935, 1939). Moreover, W. Klie received from S. Karaman the material from the cave Luknja near Novo mesto and identified it as *Notodromas persicae* Gurney (Klie 1938). At the same time, H.J. Stammer referred in his work on the fauna from the Timavo River to several species collected in Submediterranean Slovenia (Stammer 1932). More recently, T. Petkovski published scattered information on the occurrence of ostracods in Slovenia within his reports on Yugoslav fauna (Petkovski 1958, 1959, 1960a, b, 1964, 1969). Two new species were described by D. Danielopol in 1978 (*Pseudocandona pretneri* Danielopol, 1978) and T. Petkovski & C. Meisch in 1994 (*Cypris bicolor* Petkovski & Meisch, 1994). The first species was collected from the spring Rak near Cerknica (Danielopol 1982) and the second one from the spring Ižica near Ljubljana (Petkovski & Meisch 1994). At the end of the last century, H. Griffiths carried out a sampling campaign of mostly Alpine lakes and co-authored the preliminary checklist for Slovenia (Griffiths & Brancelj 1996a) as well as a paper about the palaeo-biogeography of *Candona bimucronata* in the Balkans, including Slovenia (Griffiths & Brancelj 1996b).

In 2002, an extensive field sampling was carried out in the karst and alluvial aquifers south of Ljubljana with the aim to assess the groundwater biodiversity of the area and compare it to other European regions (EU PASCALIS project, Dole-Olivier et al. 2009, Mori et al. 2011a). On that occasion, the present authors started to collaborate on the taxonomy and distribution of the freshwater ostracods in Slovenia. After that, ostracods were continuously collected and identified during several field samplings carried out by the National Institute of Biology (Mori & Brancelj 2011, Mori et al. 2011b, 2012).

The present paper summarizes the history of ostracod research in Slovenia and presents an overview of all the species recorded in this country until the present. Additionally, it provides a list of unpublished new records for Slovenia, with information on their geographical location and habitat type. The species list includes the species that were previously reported in the literature and records that were obtained through field sampling by the first author during

the last 10 years. It provides general information on geographical distribution, the habitats where species were collected and lists all the publications in which the species were reported. This work provides an updated information on the occurrence of this neglected crustacean group in Slovenia and demonstrates, as it was shown by many other specialists, that Slovenia is a biodiversity hotspot (Sket 1999) also as far as ostracods are concerned.

## Material in methods

Only Recent free-living freshwater ostracods were considered in this work. First, a careful examination of the existing original literature reporting on the occurrence of ostracods in Slovenia during the last two centuries was carried out. Based on this literature, a new species list was composed in order to update the nomenclature and to avoid possible errors from the preliminary check list published by Griffiths & Brancelj (1996a). Next, the data obtained from the first author's field samplings, starting in 2002, are included. Hence, the present species list contains all the species reported in the literature published since 1920 (Brancelj et al. 1995, Danielopol 1982, Dole-Olivier et al. 2009, Griffiths & Brancelj 1996a, b, Klie 1931, 1935, 1938, 1939, Mori & Brancelj 2011, Mori et al. 2011a, b, 2012, Paris 1920, Petkovski 1959, 1960a, b, 1964, 1969, Petkovski & Meisch 1994, Sket & Velkovrh 1981), as well as so far unpublished species records of the first author from 2002 to the present. The species are listed according to the classification proposed by Martens & Savatnalinton (2011). Only the most important synonyms are listed, more of them are available in Martens & Savatnalinton (2011). The species with *nomen nudum* are discarded from the list to avoid confusion (Joseph 1882, Schmeil 1893).

The list of locations for the species collected by the first author from 2002 onwards is provided. That list contains the geographical name of the corresponding location, the habitat type, Gauss–Krüger coordinates, altitude, date of collecting and the name of the persons who collected the sample and identified the species. The localities selected during the EU PASCALIS project were sampled by several different field workers from NIB and Biotechnical Faculty in Ljubljana and their names are not specified.

In the species list, a valid species name, the general information on geographical distribution based on the phytogeographic division of Slovenia (AL – Alpine, SA – Subalpine, SM – Submediterranean, DN – Dinaric, SD – Subdinaric, SP – Subpannonian) (Wraber 1969) and habitats types where the species was collected are provided. Additionally, for each species, the publications where the species was reported until present are cited. For each genus, the type species is marked by asterisk (\*).

## List of species

### Class Ostracoda Latreille, 1806

#### Subclass Podocopa G.W. Müller, 1894

#### Order Podocopida G.O. Sars, 1866

#### Superfamily Cypridoidea Baird, 1845

#### Family Cyprididae Baird, 1845

##### Subfamily Cypricercinae McKenzie, 1971

\**Bradleycypris obliqua* (Brady, 1868) [*Cypris obliqua* (Brady, 1868)]

AL, DN - lake littoral - Griffiths & Brancelj 1996a

##### Subfamily Cypridopsinae Kaufmann, 1900

*Cavernocypris subterranea* (Wolf, 1920) [*Cypridopsis subterranea* Wolf, 1920]

AL, DN, SM - spring benthos and drift, lake littoral, caves - Brancelj et al. 1995, Griffiths & Brancelj 1996a, Mori et al. 2011b

\**Cypridopsis vidua* (O.F. Müller, 1776) [*Cypris vidua* (O.F. Müller, 1776)]

AL, DN, SD, SM - lake littoral, swamp, river benthos, hyporheic zone, caves - Klie 1931, Stammer 1932, Griffiths & Brancelj 1996a

*Potamocypris fallax* Fox, 1967

AL - river and spring benthos - Griffiths & Brancelj 1996a

\**Potamocypris fulva* (Brady, 1868) [*Bairdia fulva* Brady, 1868]

AL, DN - spring benthos and drift, hyporheic zone - Mori et al. 2011b

*Potamocypris pallida* Alm, 1914

AL - spring benthos - Mori et al. 2011b

*Potamocypris similis* G.W. Müller, 1912

AL - spring benthos, swamp - Griffiths & Brancelj 1996a

*Potamocypris smaragdina* (Vávra, 1891) [*Cypridopsis smaragdina* Vávra, 1891]

AL - swamp - Griffiths & Brancelj 1996a

*Potamocypris variegata* (Brady & Norman, 1889) [*Cypridopsis variegata* Brady & Norman, 1889]

SD - river benthos

*Potamocypris villosa* (Jurine, 1820) [*Monoculus villosa* Jurine, 1820]

SM - cave, spring - Stammer 1932, Griffiths & Brancelj 1996a

*Potamocypris zschokkei* (Kaufmann, 1900) [*Paracypridopsis zschokkei* Kaufmann, 1900]

AL, DN - spring benthos and hyporheic zone of the headwaters - Brancelj et al. 1995, Griffiths & Brancelj 1996a, b, Dole-Olivier et al. 2009, Mori et al. 2011b

##### Subfamily Cyprinotinae Bronshtein, 1947

\**Heterocypris incongruens* (Ramdohr, 1808) [*Cypris incongruens* Ramdohr, 1808]

AL - ponds, lake littoral - Griffiths & Brancelj 1996a

*Heterocypris reptans* (Kaufmann, 1900) [*Microcypris reptans* Kaufmann, 1900]

DN, SM - spring benthos - Stammer 1932, Petkovski 1964

**Subfamily Dolerocypridinae Triebel, 1961***Dolerocypris sinensis* G.O. Sars 1903

SA/SD - pit overgrown by dense vegetation - Petkovski 1960a

**Subfamily Eucypridinae Bronshtein, 1947***Eucypris pigra* (Fischer, 1851) [*Cypris pigra* Fischer, 1851]

AL, DN - benthos and hyporheic zone - Mori et al. 2011b

\**Eucypris virens* (Jurine, 1820) [*Monoculus virens* Jurine, 1820]

DN - lake littoral - Griffiths &amp; Brancelj 1996a

**Subfamily Herpetocypridinae Kaufmann, 1900***Psychrodromus fontinalis* (Wolf, 1920) [*Ilyodromus fontinalis* Wolf, 1920]

AL - spring benthos, river benthos - Griffiths &amp; Brancelj 1996a, Mori et al. 2011b

\**Psychrodromus olivaceus* (Brady & Norman, 1889) [*Erpetocypris olivacea* Brady & Norman, 1889]

AL - river benthos - Griffiths &amp; Brancelj 1996a

**Subfamily Scottiinae Bronshtein, 1947**\**Scottia pseudobrowniana* Kempf, 1971

DN - spring benthos - Dole-Olivier et al. 2009

**Family Candonidae Kaufmann, 1900****Subfamily Candoninae Kaufmann, 1900****Tribe Candonini Kaufmann, 1900***Candona bimucronata* Klie, 1937

AL - lake littoral - Griffiths &amp; Brancelj 1996a, b

\**Candona candida* (O.F. Müller, 1776) [*Cypris candida* O.F. Müller, 1776]

AL, SA, DN, SD, SM - lake littoral, river benthos and hyporheic zone, spring benthos, caves - Stammer 1932, Sket &amp; Velkovrh 1981, Brancelj et al. 1995, Griffiths &amp; Brancelj 1996a, b, Mori &amp; Brancelj 2011, Mori et al. 2012

*Candona lindneri* G.O. Petkovski, 1969

DN, SM - spring and river benthos - Petkovski 1969, Griffiths &amp; Brancelj 1996a

*Candona neglecta* Sars, 1887

AL, SD - lake littoral, spring benthos, hyporheic zone, moss - Brancelj et al. 1995, Griffiths &amp; Brancelj 1996a

\**Cryptocandona vavrai* Kaufman, 1900

AL, SA, DN - spring benthos, hyporheic zone - Mori et al. 2011b

*Fabaeformiscandona aemonae* (Klie, 1935) [*Candona aemonae* Klie, 1935]

AL, SA, DN, SD - spring benthos, hyporheic zone, caves - Klie 1935, Dole-Olivier et al. 2009, Mori et al. 2011a, 2012

*Fabaeformiscandona breuili* (Paris, 1920) [*Candona breuili* Paris, 1920]

AL, SA, DN - spring benthos, hyporheic zone - Mori &amp; Brancelj 2011, Mori et al. 2011b

*Fabaeformiscandona brevicornis* (Klie, 1925) [*Candona brevicornis* Klie, 1925]

DN - spring benthos, hyporheic zone

*Fabaeformiscandona brisiaca* (Klie, 1938) [*Candona brisiaca* Klie, 1938]

AL - spring drift - Mori et al. 2011b

*Fabaeformiscandona latens* (Klie, 1940) [*Candona latens* Klie, 1940]

AL - spring benthos - Mori et al. 2011b.

- Mixtacandona chappuisi* (Klie, 1943) [*Candona chappuisi* Klie, 1943]  
 DN - spring benthos, hyporheic zone - Dole-Olivier et al. 2009
- Mixtacandona latingerae* Rogulj & Danielopol 1993  
 DN - spring benthos - Dole-Olivier et al. 2009
- \**Mixtacandona laisi* (Klie, 1938) [*Candona laisi* Klie, 1938] Syn.: *Candona stammeri* Klie, 1938  
 DN - spring benthos, hyporheic zone - Dole-Olivier et al. 2009, Mori et al. 2011b
- \**Nannocandona faba* Eckman, 1914  
 AL - lake littoral - Brancelj et al. 1995, Griffiths & Brancelj 1996a.
- Pseudocandona albicans* (Brady, 1864) [*Candona albicans* Brady, 1864]  
 AL, SA, DN, SD, SM - caves, spring benthos, hyporheic zone - Griffiths & Brancelj 1996a
- Pseudocandona lobipes* (Hartwig, 1900) [*Candona lobipes* Hartwig, 1900]  
 SD - *Sphagnum* moss
- Pseudocandona pratensis* (Hartwig, 1901) [*Candona pratensis* Hartwig, 1901]  
 DN - lake littoral
- Typhlocypris cavicola* (Klie, 1935) [*Candona cavicola* Klie, 1935]  
 DN - caves, spring benthos, hyporheic zone - Klie 1935, Dole-Olivier et al. 2009
- Typhlocypris eremita* (Veydovský, 1880) [*Cypris eremita* Veydovský, 1880]  
 DN - cave - Paris 1920, Dole-Olivier et al. 2009
- Typhlocypris pretneri* Danielopol, 1978  
 DN - spring drift - Danielopol 1978, Danielopol 1982, Dole-Olivier et al. 2009
- Typhlocypris trigonella* (Klie, 1931) [*Candona trigonella* Klie, 1931]  
 DN - pond in a cave - Klie 1931

#### Tribe Candonopsini Karanovic, 2004

- Candonopsis scourfieldi* Brady, 1910  
 SA, DN - spring benthos and hyporheic zone

#### Subfamily Cyclocypridinae Kaufmann, 1900

- \**Cyclocypris globosa* (Sars, 1863) [*Cypris globosa* Sars, 1863]  
 SD - *Sphagnum* moss
- Cyclocypris laevis* (O.F. Müller, 1776) [*Cypris laevis* O.F. Müller, 1776]  
 AL, DN - lake littoral and spring benthos - Griffiths & Brancelj 1996a
- Cyclocypris ovum* (Jurine, 1820) [*Monoculus ovum* Jurine, 1820]  
 AL, SA - lake littoral, river benthos, Brancelj et al. 1995, Griffiths & Brancelj 1996a, b
- Cypria bicolor* Petkovski & Meisch, 1994  
 DN - spring benthos - Petkovski & Meisch 1994
- Cypria cavernae* Wagenleitner, 1990  
 DN - spring benthos - Dole-Olivier et al. 2009.
- \**Cypria exsculpta* Fischer, 1855 [*Cypris exsculpta* Fischer, 1855]  
 AL - lake littoral - Griffiths & Brancelj 1996a
- Cypria lacustris* Lilljeborg, 1890  
 SA, DN, SA - well, spring benthos, hyporheic zone - Petkovski 1960b
- Cypria ophthalmica* (Jurine, 1820) [*Monoculus ophthalmica* Jurine, 1820]  
 AL, SA, DN, SD, SM - lake littoral, spring benthos, hyporheic zone, caves - Klie 1931, 1939, Stammer 1932, Klie 1939, Brancelj et al. 1995, Griffiths & Brancelj 1996a, b

*Cypria reptans* Brohnstein, 1928

AL, DN - caves, spring benthos, hyporheic zone - Klie 1935, Petkovski & Meisch 1994,  
Griffiths & Brancelj 1996a

*Cypria sketi* Petkovski, 1976

DN - spring benthos, hyporheic zone, pond

**Family Ilyocyprididae Kaufmann, 1900****Subfamily Ilyocypridinae Kaufmann, 1900***Ilyocypris bradyi* G.O.Sars 1890

SA, DN, SD - Petkovski 1958, Griffiths & Brancelj 1996a.

*\*Ilyocypris gibba* (Ramdohr, 1808) [*Cypris gibba* Ramdohr, 1808]

AL, SA - Petkovski 1958, Griffiths & Brancelj 1996a

*Ilyocypris inermis* Kaufmann, 1900

SM - spring benthos - Griffiths & Brancelj 1996a

**Family Notodromadidae Kaufmann, 1900****Subfamily Notodromadinae Kaufmann, 1900***\*Notodromas monacha* (O.F. Müller, 1776) [*Cypris monacha* O.F. Müller, 1776]

AL – pond - Petkovski 1959

*Notodromas persica* Gurney, 1921

DN – cave - Klie 1938

**Superfamily Darwinuloidea Brady & Robertson, 1885****Family Darwinulidae Brady & Robertson, 1885***\*Darwinula stevensoni* (Brady & Robertson, 1870) [*Polycheles stevensoni* Brady & Norman, 1889]

AL - lake littoral - Griffiths & Brancelj 1996a

**Superfamily Cytheroidea Baird, 1850****Family Cytherideidae Baird, 1850****Subfamily Cytherideinae Sars, 1925***\*Cytherissa lacustris* (Sars, 1863) [*Cythere lacustris* Sars, 1863]

AL - lake littoral - Griffiths & Brancelj 1996a, b

**Family Leptocytheridae Sars, 1925***Leptocythere fluviatilis* Klie, 1939

DN - river benthos - Klie 1939

**Family Limnocytheridae Klie, 1938****Subfamily Limnocytherini Klie, 1938***\*Limnocythere inopinata* (Baird, 1843) [*Cythere inopinata* Baird, 1843]

AL; swamp, lake littoral - Griffiths & Brancelj 1996a.

*Limnocytherina sanctipatricii* (Brady & Robertson, 1869) [*Limnocythere sanctipatricii* Brady & Robertson, 1869]

AL - lake littoral - Griffiths & Brancelj 1996a, b

## New records for Slovenia

1. Jama ob Savi, Brestanica, cave, 5093457 5531401, 169 m a. s. l., 17.1.05, leg. A. Kapla, det. N. Mori: *Typhlocypris cavicola*
2. Škocjanske jame, Divača, cave, 5058470 5421620, 320 m a. s. l., 1.2.05, leg. A. Kapla, det. C. Meisch: *Typhlocypris cavicola*
3. Škocjanske jame, Divača, cave, 5058470 5421620, 320 m a. s. l., 17.2.05, leg. A. Kapla, det. N. Mori: *Cavernocypris subterranea*
4. Turjeva jama, Kobarid, cave, 5123233 5385050, 253 m a. s. l., 20.3.05, leg. A. Kapla, det. N. Mori: *Fabaeformiscandona aemonae*
5. Velika Pasica, Ig, cave, 5086180 5461052, 700 m a. s. l., 26.9.07, leg. A. Brancelj, det. N. Mori: *Pseudocandona albicans*
6. Slabetova jama, Vrhnika, cave, 5094862 5440268, 436 m a. s. l., 1.9.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemonae*
7. Lipnik spring, Bled, benthos, 5138308 5425554, 650 m a. s. l., 10.6.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*
8. Lipnik spring, Bled, benthos, 5138308 5425554, 650 m a. s. l., 4.11.09, leg. B. Oz, det. N. Mori: *Fabaeformiscandona breuili*
9. Lipnik spring, Bled, benthos, 5138308 5425554, 650 m a. s. l., 26.4.12, leg. M. Opalički, det. N. Mori: *Psychrodromus fontinalis*
10. spring at Breg pri Borovnici, Borovnica, benthos, 5088350 5451050, 300 m a. s. l., 19.8.02, Pascalis 2002, det. C. Meisch: *Cypria sketi*, *Mixtacandona laisi*, *Pseudocandona albicans*, *Typhlocypris cavicola*
11. spring at Šivčev grič, Borovnica, benthos, 5091450 5452950, 290 m a. s. l., 21.8.02, Pascalis 2002, det. C. Meisch: *Cypria sketi*
12. spring at Podkamnik, Borovnica, benthos, 5091250 5454700, 295 m a. s. l., 21.8.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Heterocypris reptans*, *Pseudocandona albicans*, *Typhlocypris cavicola*
13. spring at Preserje, Borovnica, benthos, 5091625 5454825, 295 m a. s. l., 21.8.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
14. spring at Ribič, Borovnica, benthos, 5088525 5448900, 300 m a. s. l., 29.8.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Fabaeformiscandona aemonae*
15. spring at Dol pri Borovnici, Borovnica, benthos, 5087500 5449875, 300 m a. s. l., 29.8.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Ilyocypris bradyi*, *Pseudocandona albicans*, *Typhlocypris cavicola*
16. spring at Ohonica, Borovnica, benthos, 5084325 5451775, 340 m a. s. l., 29.8.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*
17. spring at Malence, Borovnica, benthos, 5085450 5450375, 450 m a. s. l., 6.9.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Scottia pseudobrowniana*
18. spring Veliko Bojišče, Borovnica, benthos, 5084775 5450825, 500 m a. s. l., 6.9.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona brevicornis*, *Fabaeformiscandona breuili*



19. spring pod Sv. Jožefom, Borovnica, benthos, 5090850 5454650, 295 m a. s. l., 16.9.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*
20. spring at Ponikve, Borovnica, spring, 5495550 5455450, 300 m a. s. l., 10.12.2002, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
21. spring Kotliči, Cerknica, benthos, 5072085 5445511, 600 m a. s. l., 1.7.11, leg. N. Mori, det. N. Mori: *Typhlocypris cavicola*
22. spring Rak, Cerknica, benthos, 5072479 5446769, 640 m a. s. l., 28.7.11, leg. N. Mori, det. N. Mori: *Typhlocypris cavicola*
23. Doblčko jezero, Črnomelj, benthos, 5045288 5511640, 200 m a. s. l., 12.7.05, leg. A. Kapla, det. N. Mori: *Cypria sketi*
24. spring Mrzlica, Ig, benthos, 5085650 5460000, 760 m a. s. l., 26.8.02, Pascalis 2002, det. C. Meisch: *Potamocypris fulva*
25. spring under Mišnice, Ig, benthos, 5084775 5459675, 800 m a. s. l., 26.8.02, Pascalis 2002, det. C. Meisch: *Potamocypris fulva*
26. spring Gabrovica, Ig, benthos, 5084500 5462775, 680 m a. s. l., 29.8.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Potamocypris fulva*
27. spring Korito, Ig, benthos, 5078800 5462275, 690 m a. s. l., 3.9.02, Pascalis 2002, det. C. Meisch: *Candona neglecta*, *Cypria reptans*
28. spring at Ižanka, Ig, benthos, 5092100 5463650, 290 m a. s. l., 8.9.02, Pascalis 2002, det. C. Meisch: *Cyclocypris laevis*, *Cypria reptans*
29. spring in Draga, Ig, benthos, 5087750 5465500, 320 m a. s. l., 19.9.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Mixtacandona laisi*
30. spring at Krška jama cave, Ivančna Gorica, benthos, 5082866 5482680, 272 m a. s. l., 28.7.11, leg. N. Mori, det. N. Mori: *Typhlocypris cavicola*
31. spring in the Vrata valley, Jesenice, benthos, 5144888 5416086, 720 m a. s. l., 9.7.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*, *Potamocypris fulva*, *Psychrodromus fontinalis*
32. Završnica spring, Jesenice, benthos, 5141732 5438568, 943 m a. s. l., 16.6.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*
33. Završnica spring, Jesenice, drift, 5141732 5438568, 943 m a. s. l., 20.10.10, leg. N. Mori, det. N. Mori: *Psychrodromus fontinalis*
34. Javorniški potok spring, Jesenice, benthos, 5146689 5432032, 1108 m a. s. l., 16.6.09, leg. B. Oz, det. N. Mori: *Psychrodromus fontinalis*
35. Javorniški potok spring, Jesenice, benthos, 5146689 5432032, 1108 m a. s. l., 4.11.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*
36. Kamniška Bistrica spring, Kamnik, benthos, drift, 5131603 5468851, 600 m a. s. l., 4.6.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*, *Mixtacandona laisi*
37. Črna spring, Luče, benthos, 5140596 5472340, 740 m a. s. l., 1.7.09, leg. B. Oz, det. N. Mori: *Cavernocypris subterranea*
38. Pavličovo sedlo spring, Luče, drift, 5141860 5469638, 1232 m a. s. l., 1.7.09, leg. N. Mori, det. N. Mori: *Fabaeformiscandona brisiaca*, *Psychrodromus fontinalis*, *Fabaeformiscandona latens*, *Cavernocypris subterranea*, *Cryptocandona vavrai*, *Potamocypris zschokkei*

39. Presušnik spring, Mojstrana, benthos, 5148330 5422931, 1220 m a. s. l., 16.6.09, leg. B. Oz, det. N. Mori: *Eucypris pigra*
40. Presušnik spring, Mojstrana, benthos, 5148330 5422931, 1220 m a. s. l., 8.9.09, leg. B. Oz, det. N. Mori: *Candona neglecta*
41. Presušnik spring, Mojstrana, drift, 5148330 5422931, 1220 m a. s. l., 2.9.10, leg. N. Mori, det. N. Mori: *Fabaeformiscandona breuili*, *Potamocypris fulva*
42. Rogovilc spring, Mozirje, drift, 5139436 5477797, 669 m a. s. l., 2.7.09, leg. N. Mori, det. N. Mori: *Psychrodromus fontinalis*, *Potamocypris zschokkei*
43. Rogovilc, Mozirje, drift, 5139436 5477797, 669 m a. s. l., 18.6.10, leg. N. Mori, det. N. Mori: *Fabaeformiscandona breuili*, *Cavernocypris subterranea*, *Potamocypris fallax*
44. spring at Resnik, Podkraj, benthos, 5092750 5459750, 290 m a. s. l., 19.9.02, Pascalis 2002, det. C. Meisch: *Cyclocypris laevis*, *Cypria reptans*
45. spring at Koprivec, Podlipa, benthos, 5095925 5448250, 300 m a. s. l., 25.10.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemonae*, *Ilyocypris bradyi*
46. spring at Podpeč, Podpeč, benthos, 5092100 5455200, 295 m a. s. l., 21.8.02, Pascalis 2002, det. C. Meisch: *Cypria sketi*, *Ilyocypris bradyi*, *Mixtacandona lattingerae*, *Mixtacandona laisi*, *Typhlocypris cavicola*
47. spring at Podkraj, Podpeč, benthos, 5092134 5459145, 300 m a. s. l., 30.8.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Typhlocypris cavicola*
48. spring at Podkraj, Podpeč, benthos, drift, 5092134 5459145, 300 m a. s. l., 2.3.12, leg. B. Mežnarič, det. N. Mori: *Cypria reptans*, *Mixtacandona chappuisi*, *Typhlocypris cavicola*
49. spring at Podpeško jezero, Podpeč, benthos, 5091300 5456825, 290 m a. s. l., 30.8.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*, *Cypria reptans*, *Typhlocypris cavicola*
50. spring at pond, Podpeč, benthos, 5091315 5456811, 300 m a. s. l., 6.7.12, leg. B. Mežnarič, det. N. Mori: *Cypria reptans*, *Heterocypris reptans*
51. spring at Jezero, Podpeč, benthos, 5092050 5456125, 300 m a. s. l., 19.9.02, Pascalis 2002, det. C. Meisch: *Cyclocypris laevis*, *Cypria reptans*, *Fabaeformiscandona aemonae*, *Typhlocypris cavicola*
52. spring at Virje, Podpeč, benthos, 5092384 5457464, 300 m a. s. l., 25.10.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
53. spring at Virje, Podpeč, drift, 300 m a. s. l., 6.7.12, leg. B. Mežnarič, det. N. Mori: *Typhlocypris cavicola*
54. spring Vogli, Strahomer, benthos, 5088338 5460613, 310 m a. s. l., 30.7.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Mixtacandona chappuisi*
55. spring at Strahomer pond, Strahomer, benthos, 5087950 5460725, 320 m a. s. l., 25.9.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
56. spring Močilo, Škrilje, benthos, 5084800 5465875, 590 m a. s. l., 29.8.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*
57. springs at Mošenik, Tržič, drift, 5141621 5444173, 807 m a. s. l., 16.6.09, leg. N. Mori, det. N. Mori: *Cavernocypris subterranea*

58. springs at Mošenik, Tržič, benthos, 5141621 5444173, 807 m a. s. l.,  
16.6.09, leg. B. Oz, det. N. Mori: *Potamocypris pallida*, *Potamocypris zschokkei*,  
*Psychrodromus fontinalis*
59. spring at Ogrin, Velika Ligojna, benthos, 5094500 5445725, 295 m a. s. l.,  
30.8.02, Pascalis 2002, det. C. Meisch: *Candonopsis scourfieldi*, *Pseudocandona*  
*albicans*
60. spring Moravc, Velika Ligojna, benthos, 5095000 5444725, 320 m a. s. l.,  
30.8.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemonae*
61. Malo okence, Vrhnika, benthos, 5089750 5445775, 300 m a. s. l.,  
30.8.02, Pascalis 2002, det. C. Meisch: *Cypria cavernae*, *Cypria lacustris*, *Typhlocypris*  
*cavicola*, *Typhlocypris eremita*
62. Veliki Močilnik, Vrhnika, benthos, 5090225 5445500, 300 m a. s. l.,  
30.8.02, Pascalis 2002, det. C. Meisch: *Mixtacandona laisi*, *Typhlocypris cavicola*
63. Korita on Planja, Vrhnika, benthos, 5092300 5442850, 500 m a. s. l.,  
9.9.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*
64. spring in Kobilja dolina, Vrhnika, benthos, 5096150 5447875, 320 m a. s. l.,  
16.9.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*
65. spring at Velika Ligojna, Vrhnika, benthos, 5095150 5446300, 355 m a. s. l.,  
16.9.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*,  
*Fabaeformiscandona brevicornis*, *Mixtacandona chappuisi*
66. spring at Mala Ligojna, Vrhnika, benthos, 5095550 5441825, 350 m a. s. l.,  
25.7.02, Pascalis 2002, det. C. Meisch: *Cryptocandona vavrai*
67. spring at Želimlje, Želimlje, benthos, 5086200 5467375, 320 m a. s. l.,  
30.7.02, Pascalis 2002, det. C. Meisch: *Candonopsis scourfieldi*
68. spring at Podreber, Želimlje, benthos, 5086550 5467650, 310 m a. s. l.,  
30.7.02, Pascalis 2002, det. C. Meisch: *Cyclocypris laevis*, *Mixtacandona chappuisi*,  
*Typhlocypris cavicola*
69. spring at Turjak castle, Želimlje, benthos, 5081650 5469475, 355 m a. s. l.,  
19.9.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*
70. Dremavščica spring, Želimlje, drift, 5089275 5466900, 295 m a. s. l.,  
30.11.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Typhlocypris cavicola*
71. Sava, Ljubljana, HZ, 5104638 5468541, 278 m a. s. l.,  
27.12.04, leg. G. Bračko, det. N. Mori: *Candona candida*
72. Sava, Ljubljana, HZ, 5104402 5465197, 278 m a. s. l.,  
27.12.04, leg. G. Bračko, det. N. Mori: *Typhlocypris cavicola*
73. Sava, Ljubljana, HZ, 5108049 5459811, 296 m a. s. l.,  
13.7.07, leg. N. Mori, det. N. Mori: *Candona candida*
74. Sava, Ljubljana, HZ, 5108049 5459811, 296 m a. s. l.,  
13.7.07, leg. N. Mori, det. N. Mori: *Fabaeformiscandona aemonae*
75. Sava, Ljubljana, HZ, 5108079 5459762, 291 m a. s. l.,  
20.8.08, leg. U. Žibrat, det. N. Mori: *Pseudocandona albicans*
76. Sava, Naklo, HZ, 5125566 5445065, 366 m a. s. l.,  
20.8.08, leg. U. Žibrat, det. N. Mori: *Pseudocandona albicans*

77. Sava, Radovljica, HZ, 5132549 5436600, 406 m a. s. l.,  
20.8.08, leg. U. Žibrat, det. N. Mori: *Fabaeformiscandona breuili*
78. Sava, Jevnica, HZ, 5104727 5479620, 251 m a. s. l.,  
21.8.08, leg. U. Žibrat, det. N. Mori: *Cypria reptans*
79. Želimejščica, Želumlje, HZ, 5080873 5469709, 370 m a. s. l.,  
8.5.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*
80. Želimejščica, Želumlje, HZ, 5082311 5469014, 345 m a. s. l.,  
8.5.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Potamocypris fulva*,  
*Pseudocandona albicans*, *Fabaeformiscandona breuili*
81. Želimejščica, Želumlje, HZ, 5083125 5468825, 336 m a. s. l.,  
14.5.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Pseudocandona albicans*
82. Želimejščica, Želumlje, HZ, 5083125 5468875, 336 m a. s. l.,  
14.5.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*
83. Želimejščica, Želumlje, HZ, 5084000 5468350, 332 m a. s. l.,  
16.5.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*
84. Želimejščica, Želumlje, HZ, 5084300 5468200, 331 m a. s. l.,  
16.5.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*, *Mixtacandona chappuisi*, *Pseudocandona albicans*, *Typhlocypris cavicola*
85. Želimejščica, Želumlje, HZ, 5085050 5467950, 320 m a. s. l.,  
16.5.02, Pascalis 2002, det. C. Meisch: *Cypria reptans*, *Mixtacandona chappuisi*,  
*Pseudocandona albicans*
86. Želimejščica, Želumlje, HZ, 5086450 5467650, 309 m a. s. l.,  
16.5.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Fabaeformiscandona breuili*, *Pseudocandona albicans*, *Typhlocypris cavicola*
87. Želimejščica, Želumlje, HZ, 5087450 5466850, 301 m a. s. l.,  
17.5.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*,  
*Fabaeformiscandona brevicornis*, *Pseudocandona albicans*, *Mixtacandona chappuisi*
88. Želimejščica, Želumlje, HZ, 5088450 5466500, 297 m a. s. l.,  
30.5.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Pseudocandona albicans*
89. Želimejščica, Želumlje, HZ, 5088998 5466383, 295 m a. s. l.,  
25.7.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Pseudocandona albicans*
90. Iška, Iška vas, HZ, 5084300 5461000, 375 m a. s. l.,  
31.5.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemona*,  
*Fabaeformiscandona breuili*, *Potamocypris zschokkei*
91. Iška, Iška vas, HZ, 5084750 5461050, 363 m a. s. l.,  
31.5.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*
92. Iška, Iška vas, HZ, 5085250 5461425, 359 m a. s. l.,  
31.5.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*
93. Iška, Iška vas, HZ, 5086690 5462300, 342 m a. s. l.,  
12.6.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*, *Cypria sketi*, *Candona candida*, *Fabaeformiscandona breuili*, *Fabaeformiscandona brevicornis*

94. Iška, Iška vas, HZ, 5088113 5462847, 327 m a. s. l.,  
12.6.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*
95. Iška, Iška vas, HZ, 5088501 5462130, 320 m a. s. l.,  
13.6.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
96. Iška, Iška vas, HZ, 5088641 5461752, 314 m a. s. l.,  
13.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Typhlocypris cavicola*
97. Iška, Iška vas, HZ, 5088586 5460885, 310 m a. s. l.,  
13.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Typhlocypris cavicola*
98. Iška, Iška vas, HZ, 5088586 5460885, 310 m a. s. l.,  
13.6.02, Pascalis 2002, det. C. Meisch: *Eucypris pigra*, *Mixtacandona chappuisi*,  
*Pseudocandona albicans*, *Typhlocypris cavicola*
99. Iška, Iška vas, HZ, 5090419 5460469, 302 m a. s. l.,  
18.6.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*, *Pseudocandona albicans*
100. Iška, Iška vas, HZ, 5091822 5460057, 295 m a. s. l.,  
18.6.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
101. Iška, Iška vas, HZ, 5091822 5460057, 295 m a. s. l.,  
18.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Typhlocypris cavicola*
102. Borovniščica, Borovnica, HZ, 5083142 5451708, 340 m a. s. l.,  
19.6.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemonae*,  
*Fabaeformiscandona breuili*, *Typhlocypris cavicola*, *Mixtacandona chappuisi*, *Cypria reptans*, *Mixtacandona laisi*
103. Borovniščica, Borovnica, HZ, 5083751 5452208, 320 m a. s. l.,  
19.6.02, Pascalis 2002, det. C. Meisch: *Cryptocandona vavrai*, *Mixtacandona laisi*,  
*Typhlocypris cavicola*, *Cypria reptans*, *Cypridopsis vidua*, *Fabaeformiscandona aemonae*
104. Borovniščica, Borovnica, HZ, 5084334 5452301, 310 m a. s. l.,  
19.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona laisi*
105. Borovniščica, Borovnica, HZ, 5082674 5453088, 340 m a. s. l.,  
20.6.02, Pascalis 2002, det. C. Meisch: *Typhlocypris cavicola*
106. Borovniščica, Borovnica, HZ, 5084779 5452057, 309 m a. s. l.,  
20.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona laisi*
107. Borovniščica, Borovnica, HZ, 5083360 5452956, 325 m a. s. l.,  
21.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona laisi*
108. Borovniščica, Borovnica, HZ, 5084381 5452723, 320 m a. s. l.,  
21.6.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*
109. Borovniščica, Borovnica, HZ, 5084775 5452375, 310 m a. s. l.,  
8.7.02, Pascalis 2002, det. C. Meisch: *Candona candida*, *Typhlocypris cavicola*,  
*Mixtacandona chappuisi*, *Cypria reptans*, *Mixtacandona laisi*
110. Borovniščica, Borovnica, HZ, 5085100 5451750, 305 m a. s. l.,  
8.7.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona aemonae*, *Mixtacandona chappuisi*, *Mixtacandona laisi*, *Typhlocypris cavicola*, *Fabaeformiscandona brevicornis*
111. Borovniščica, Borovnica, HZ, 5085150 5451925, 305 m a. s. l.,  
8.7.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*, *Typhlocypris cavicola*,  
*Mixtacandona chappuisi*, *Cypria reptans*, *Mixtacandona laisi*

112. Borovniščica, Borovnica, HZ, 5086450 5451300, 300 m a. s. l.,  
8.7.02, Pascalis 2002, det. C. Meisch: *Mixtacandona laisi*, *Typhlocypris cavicola*, *Cypria reptans*, *Typhlocypris cavicola*
113. Borovniščica, Borovnica, HZ, 5087950 5450750, 290 m a. s. l.,  
8.7.02, Pascalis 2002, det. C. Meisch: *Candona candida*, *Cypria reptans*, *Mixtacandona chappuisi*, *Pseudocandona albicans*
114. Podlipščica, Podlipa, HZ, 5095875 5440000, 350 m a. s. l.,  
9.7.02, Pascalis 2002, det. C. Meisch: *Cypria lacustris*, *Potamocypris zschokkei*
115. Podlipščica, Podlipa, HZ, 5093753 5442972, 322 m a. s. l.,  
16.7.02, Pascalis 2002, det. C. Meisch: *Mixtacandona chappuisi*, *Cypria reptans*
116. Podlipščica, Podlipa, HZ, 5094242 5443255, 300 m a. s. l.,  
17.7.02, Pascalis 2002, det. C. Meisch: *Candona candida*, *Cypria reptans*
117. Podlipščica, Podlipa, HZ, 5094169 5444172, 297 m a. s. l.,  
17.7.02, Pascalis 2002, det. C. Meisch: *Fabaeformiscandona breuili*, *Pseudocandona albicans*
118. Podlipščica, Podlipa, HZ, 5094106 5445296, 293 m a. s. l.,  
18.7.02, Pascalis 2002, det. C. Meisch: *Pseudocandona albicans*
119. Podlipščica, Podlipa, HZ, 5093785 5445750, 291 m a. s. l.,  
18.7.02, Pascalis 2002, det. C. Meisch: *Cryptocandona vavrai*, *Pseudocandona albicans*
120. Podlipščica, Podlipa, HZ, 5095243 5440925, 329 m a. s. l.,  
25.7.02, Pascalis 2002, det. C. Meisch: *Candonopsis scourfieldi*, *Cryptocandona vavrai*,  
*Fabaeformiscandona breuili*, *Typhlocypris cavicola*
121. Bača, Tolmin, HZ, 5113650 5406900, 190 m a. s. l.,  
11.6.04, leg. N. Mori, det. C. Meisch: *Pseudocandona albicans*
122. Bača, Tolmin, HZ, 5113650 5406900, 190 m a. s. l.,  
20.11.04, leg. N. Mori, det. C. Meisch: *Candona candida*
123. Bača, Tolmin, HZ, 5112200 5405325, 180 m a. s. l.,  
11.6.04, leg. N. Mori, det. C. Meisch: *Pseudocandona albicans*, *Candona candida*
124. Bača, Tolmin, HZ, 5111916 5405126, 180 m a. s. l.,  
20.11.04, leg. N. Mori, det. C. Meisch: *Fabaeformiscandona breuili*
125. Bača, Tolmin, HZ, 5111916 5405126, 180 m a. s. l.,  
12.11.04, leg. N. Mori, det. C. Meisch: *Cypria ophthalmica*
126. Bača, Tolmin, drift, 5112200 5405325, 180 m a. s. l.,  
26.10.04, leg. N. Mori, det. C. Meisch: *Cyclocypris ovum*, *Fabaeformiscandona breuili*
127. Vipava, Miren, HZ, 5083614 5391029, 40 m a. s. l.,  
22.9.08, leg. U. Žibrat, det. N. Mori: *Typhlocypris cavicola*
128. Kolpa, Otok, benthos, 5052872 5524142, 140 m a. s. l.,  
3.8.05, leg. N. Mori, det. N. Mori: *Cypridopsis vidua*, *Potamocypris variegata*
129. Rožnik, Ljubljana, moss, 5102125 5459400, 350 m a. s. l.,  
15.4.05, leg. S. Lukančič, det. C. Meisch: *Cyclocypris globosa*, *Candona neglecta*,  
*Pseudocandona lobipes*
130. Cerknica Lake, Cerknica, lake littoral, 5065129 5452515, 575 m a. s. l.,  
1.5.05, leg. S. Lukančič, det. N. Mori: *Pseudocandona pratensis*

131. Bohinj Lake, Bohinjska Bistrica, lake littoral, 5126808 5410814, 527 m a. s. l., 21.6.05, leg. A. Brancelj, det. N. Mori: *Bradleyocypris obliqua*, *Candona neglecta*, *Cyclocypris ovum*, *Cypridopsis vidua*, *Limnocytherina sanctipatricii*
132. Bohinj Lake, Bohinjska Bistrica, lake littoral, 5127243 5414214, 527 m a. s. l., 22.6.05, leg. A. Brancelj, det. N. Mori: *Candona candida*, *Cyclocypris ovum*, *Cypria ophthalmica*, *Pseudocandona rostrata*
133. Bohinj Lake, Bohinjska Bistrica, lake littoral, 5126884 5414222, 527 m a. s. l., 22.6.05, leg. A. Brancelj, det. N. Mori: *Candona neglecta*, *Cyclocypris ovum*, *Cypria exsculpa*, *Cypria ophthalmica*, *Cypridopsis vidua*, *Limnocytherina sanctipatricii*

\*HZ – hyporheic zone (depth between 30 and 60 cm in the river bed and between 60 and 90 cm in the lateral gravel bars)

## Discussion

The intensive field sampling and taxonomical work carried out during the last ten years resulted in several new Ostracoda records for Slovenia. At present, 61 species belonging to 25 genera and 6 families are listed for Slovenia. Moreover, several new species to science need to be described. Altogether, only 23 papers have been published from 1882 until present that report on original findings of Ostracoda in Slovenian freshwaters. Since the focus of the first author's research work are groundwaters in the southern (Dinaric region) and northwestern Slovenia (Alpine region), the surface species and species that are distributed in the eastern Slovenia (Subpannonian region) are still underrepresented.

The present checklist comprises species with a wide distribution across the whole of Europe as well as a number of groundwater species which are most probably endemic in Slovenia and/or the Dinaric region. In the Slovenian Red list of endangered crustaceans, five ostracod species were reported as single site endemics (*C. reptans*, *F. aemonae*, *T. cavicola*, *T. trigonella* and *T. pretneri*) (Sket & Brancelj 1992). After the intensive sampling of groundwater habitats (karst and alluvial aquifers) of Slovenia, it is clear that the first three species are widespread across southern and western Slovenia. The taxonomical position of the last two species is currently under revision, from which it appears that at least *T. pretneri* is a synonym with *T. cavicola* (Meisch & Mori, in preparation). Further, as proposed by Griffiths & Brancelj (1996a), the intensification of field sampling resulted in records of several species from the genera *Fabaeformiscandona* and *Mixtacandona* that had earlier not been included in a preliminary list even with a single species. It is expected that future data collection from the surface waters and from the eastern part of the country will further increase the number of recorded species and that a number of species currently considered as »single site« species will be more widespread.

## Povzetek

Poznavanje dvoklopnikov v Sloveniji je bilo doslej razmeroma skromno. V prispevku je predstavljen najnovejši seznam recentnih vrst prostoživečih dvoklopnikov (Podocopida, Ostracoda, Crustacea) iz celinskih voda, ki vključuje podatke, povzete iz obstoječih publikacij, ter še neobjavljene najdbe za Slovenijo, pridobljene med terenskim vzorčenjem v zadnjih 10 letih. Novi seznam vsebuje 61 vrst iz 25 rodov in 6 družin. Intenzivno sistematično vzorčenje med evropskim projektom PASCALIS je pokazalo, da so nekatere vrste, predhodno znane kot lokalno endemične, splošno razširjene v slovenskem Dinarskem krasu. Pričakuje se, da je dejansko število vrst veliko večje, saj primanjkuje podatkov iz vzhodne Slovenije, ter iz površinskih voda, ki so manj intenzivno vzorčevane kot podzemne vode.

## Acknowledgements

The field sampling was founded by the European PASCALIS project (2002–2005) and by the Slovenian Research Agency through several funding schemes. The authors would like to thank co-workers from the National Institute of Biology as well as Gregor Bračko from the University of Ljubljana (Biotechnical Faculty, Department of Biology) for their help in the field. Special thanks to Dr Boris Sket for providing a large amount of literature on Ostracoda.

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