



Checklist of the benthic marine macroalgae from Algeria, part II: *Ulvophyceae*

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Abstract. The seaweed diversity of the Mediterranean is still not completely known, especially in some areas of its African coasts. As an effort to complete a more detailed catalogue to fill such gap, an updated checklist of seaweeds from Algeria, based on updated literature records, is developed using as starting point the checklist of Perret-Boudouresque and Seridi published in 1989. In the present work, in which we include the *Ulvophyceae* Mattox & K.D.Stewart, we list 73 accepted taxa from this group, among which there are 8 new records for Algeria.

Resumen. El conocimiento de la diversidad de las algas marinas del Mediterráneo presenta todavía ciertas lagunas, especialmente en algunas áreas de la costa africana. Para completar su catálogo, se está llevando a cabo una revisión crítica y una puesta al día de la flora de algas marinas de Argelia mediante la recopilación y actualización de todas las citas publicadas, tomando como punto de partida la de Perret-Boudouresque y Seridi publicada en 1989. En el presente trabajo, en el que tratamos las *Ulvophyceae* Mattox & K.D.Stewart, catalogamos un total de 73 táxones aceptados de este grupo, entre los que se encuentran 8 nuevas citas para Argelia.

Keywords. Algerian coast, checklist, green algae, seaweeds, *Ulvophyceae*.

Palabras clave. Algas marinas, algas verdes, catálogo, costa argelina, *Ulvophyceae*.

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INTRODUCTION

The seaweeds of the Algerian coast have been well studied by classical French phycologists (Montagne 1838, 1846–1849, 1856; Debray 1893, 1897; and several contributions carried out by J. Feldman and G. Feldman-Mazoyer between 1931 and 1961, listed in Perret-Boudouresque & Seridi 1989). Perret-Boudouresque & Seridi (1989) published a checklist of the benthic marine macroalgae which compiled the information on this area up to that moment. In 1993, a taxonomical and nomenclatural critical revision of all the Mediterranean green seaweeds (*Ulvophyceae* Mattox & K.D.Stewart) was carried out (Gallardo & al. 1993), and concerning the Algerian flora, the article by Perret-Boudouresque & Seridi (1989) was used as a reference. In the two last decades, some authors have continued working on the marine flora of Algeria (Ould-Ahmed & al. 1995; Ould-Ahmed & Meinesz 1998, 2007; Ould-Ahmed 2005; Seridi & al. 2007). Ould-Ahmed & al. (2013) published the first part of the checklist

of Algeria corresponding to the *Phaeophyceae* Kjellm. In addition, there is more information which is often difficult to consult, since it is mostly included in unpublished papers, such as PhD theses (Seridi 1990, 2007; Kadari-Méziane 1994; Ould-Ahmed 1994, 2015). Báez & al. (2004, 2005a, 2005b) used the data of the Algerian species of *Cladophora* Kütz. compiled in Gallardo & al. (1993) to carry out a geographical analysis of species richness in the Mediterranean Sea, without new data. The aim of this work is to update the knowledge of the green seaweeds inhabiting the Algeria shores.

MATERIAL AND METHODS

The list has been compiled following the scheme used in the first part of this series (Ould-Ahmed & al. 2013). All green algal taxa reported in the literature from Algeria have been searched, critically revised and treated according to current rules of taxonomy and nomenclature in order to compile an updated list of the Algerian *Ulvophyceae*.

Taxonomy and nomenclature follow Guiry & Guiry (2019) and, in some cases, Cormaci & al. (2014). In the catalogue, orders, genera and species were arranged alphabetically. When a taxon has been recorded under a synonym, this name is cited after the reference. For information included in unpublished works, locations are indicated after the authors' citations (Fig. 1). For each taxon the phytogeographic group is annotated according to Cormaci & al. (1982), Giaccone & al (1985), Furnari & al. (2003) and Guiry & Guiry (2019): A = Atlantic; Ab = Boreo-Atlantic; Abt = Boreo-tropical Atlantic; AP = Atlanto-Pacific; At = Atlantic tropical; C = Cosmopolitan; CB = Circumboreal; IA = Indo-Atlantic; IP = Indo-Pacific; M = Mediterranean; P = Pantropical; SC = Sub-cosmopolitan. For several species, comments on taxonomic or misidentifications are included. A list of excluded taxa is also given.

RESULTS

Bryopsidales J.H.Schaffn.

Bryopsis corymbosa J.Agardh (AP)

Perret-Boudouresque & Seridi (1989).

Bryopsis cupressina J.V.Lamour. (M)

Perret-Boudouresque & Seridi (1989) as *Bryopsis cupressoides* J.Agardh var. *cupressoides* – Kadari-Méziane (1994) as *Bryopsis cupressoides* var. *cupressoides*: Tipaza, Bou-Ismaïl.

Bryopsis cupressina var. *adriatica* (J.Agardh) M.J.Wynne (M)

Perret-Boudouresque & Seridi (1989) as *Bryopsis cupressoides* var. *adriatica* J.Agardh – Kadari-Méziane (1994) as *Bryopsis cupressoides* var. *adriatica*: Tipaza, Bou-Ismaïl.

Bryopsis duplex De Not. (A)

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl.

Bryopsis hypnoides J.V.Lamour. (C)

Perret-Boudouresque & Seridi (1989) as *Bryopsis monoica* Funk – Ould-Ahmed (2015): Tipaza, Ain Tagourait; Alger, Ain Benian.

Bryopsis muscosa J.V.Lamour. (P)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Bourmerdès, Boudouaou; Bouharoun – Ould-Ahmed (1994): Oran, Mers El Hadjaj. – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas; Arzew.

Bryopsis plumosa (Huds.) C.Agardh (SC)

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjaj – Ould-Ahmed (2015): Oran, Iles Habibas; Arzew; Tipaza: Chenoua, Anse de Kouali; Alger, Ain Benian.

Bryopsis secunda J.Agardh (M)

Ould-Ahmed (1994): Oran, Mers El Hadjaj – Ould-Ahmed (2015): Tipaza, Arzew.

Caulerpa cylindracea Sond. (IP)

Ould-Ahmed & Meinsez (2007) as *Caulerpa racemosa* var. *cylindracea* (Sond.) Verlaque & al. – Ould-Ahmed (2015) as *Caulerpa racemosa* var. *cylindracea*: Tipaza, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian.

Caulerpa prolifera (Forssk.) J.V.Lamour. (P)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjaj – Ould-Ahmed (2015): Oran, Arzew.

Codium adhaerens C.Agardh (AP)

Perret-Boudouresque & Seridi (1989).

According to Gallardo & al. (1993), the Mediterranean records of this species should be probably referred to *Codium effusum*. The status of

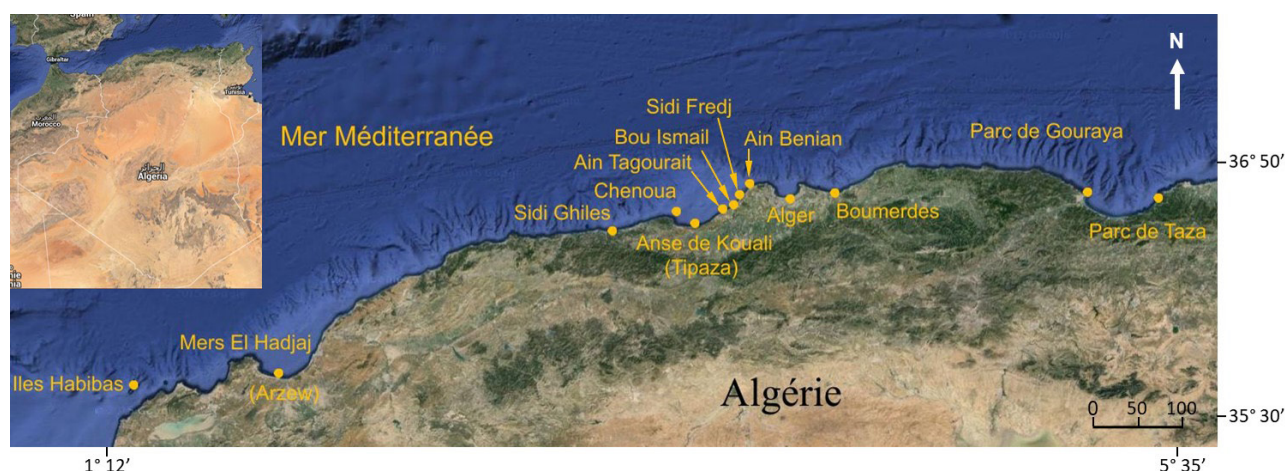


Fig. 1. Geographical distribution of the studied locations along the Algerian coast.

this species in the Mediterranean and elsewhere outside the north-eastern Atlantic needs reassessment (Guiry & Guiry 2016).

Codium bursa (Olivi) C.Agardh (Abt)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Surcouf – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Tipaza, Bou-Ismaïl; Alger, Ain-Benian; Bejaia, Gouraya; Jijel, Taza.

Codium decorticatum (J.B.Woodw.) M.Howe (IA)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew, AinTagourait; Bejaia, Gouraya.

Codium effusum (Raf.) Delle Chiaje (IP)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, Surcouf.

Codium fragile (Suringar) Har. (AP)

Seridi (1990): Tamentfoust, Surcouf, Bourmerdès; Boudouaou – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Arzew; Tipaza, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou.

Codium tomentosum Stackh. (AP)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew; Alger, Ain Benian.

According to Gallardo & al. (1993), many Mediterranean records of *Codium tomentosum* should be probably referred to *Codium vermilara*.

Codium vermilara (Olivi) Delle Chiaje (At)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, Tamentfoust, El Marsa, Surcouf; Bourmerdès, Boudouaou – Seridi & al. (2007).

Derbesia tenuissima (Moris & De Not.) P.Crouan & H.Crouan (SC)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Sidi-Fredj – Ould-Ahmed (2015): Oran, Arzew; Tipaza, Chenoua, Ain Tagourait – Kadari-Méziane (1994) as *Halicystis parvula* F.Schmitz ex Murray: Tipaza, Bou-Ismaïl – Ould-Ahmed (1994) as *Halicystis parvula*: Oran, Mers El Hadjadj.

Flabellia petiolata (Turra) Nizam. (At)

Perret-Boudouresque & Seridi (1989) as *Udotea petiolata* (Turra) Børgesen – Seridi (1990) as *Udotea petiolata* (Turra): Alger, Bordj El Kiffan, Tamentfoust, Surcouf; Tipaza, Tipaza – Ould-Ahmed (1994) as *Udotea petiolata*: Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Anse de Kouali, Bou-Ismaïl; Alger, Ain Benian; Bejaia, Gouraya; Jijel, Taza.

Halimeda tuna (J.Ellis & Sol.) J.V.Lamour. (P)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew.

Ostreobium quekettii Born. & Flah. (SC)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew.

Pedobesia simplex (Menegh. ex Kütz.) M.J.Wynne & F.Leliaert (CB)

Perret-Boudouresque & Seridi (1989) as *Pedobesia lamourouxii* (J.Agardh) Feldmann & al.

Pedobesia solieri J.Feldm. ex Abélard & Knoepffler, Perret-Boudouresque & Seridi (M)

Perret-Boudouresque & Seridi (1989).

Penicillus capitatus Lam. (At)

Perret-Boudouresque & Seridi (1989) as *Espera mediterranea* Decne.

Pseudobryopsis myura (J.Agardh) Berthold (M)

Perret-Boudouresque & Seridi (1989) as *Trichosolen myurus* (J.Agardh) W.R.Taylor.

Pseudochlorodesmis furcellata (Zanardini) Børgesen (SC)

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Bejaia, Gouraya; Jijel, Taza.

Cladophorales Haeckel

Acrocladus pellucidus (Huds.) Boedeker (IA)

Perret-Boudouresque & Seridi (1989) as *Cladophora pellucida* (Huds.) Kütz.

Anadyomene stellata (Wulfen) C.Agardh (P)

Perret-Boudouresque & Seridi (1989).

Chaetomorpha aerea (Dillwyn) Kütz. (C)

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, Sidi-Fredj; Boumerdès, Boudouaou; Tipaza, Tipaza; Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Cherchell, Ain Tagourait, Anse de Kouali, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou; Bejaia, Gouraya; Jijel, Taza.

According to Cormaci & al. (2014) this species is conspecific with *Chaetomorpha linum*.

Chaetomorpha ligustica (Kütz.) Kütz. (C)

Perret-Boudouresque & Seridi (1989) as *Chaetomorpha capillaris* (Kütz.) Børgesen – Seridi (1990) as *Chaetomorpha capillaris*: El Marsa, Surcouf, Boumerdès, Boudouaou, Alger, Sidi-Fredj, Tipaza, Tipaza – Kadari-Méziane (1994) as *Chaetomorpha capillaris*: Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) as *Chaetomorpha mediterranea* (Kütz.) Kütz. – Ould-Ahmed (2015) as *Chaetomorpha capillaris*: Oran, Iles Habibas, Arzew; Tipaza, Cherchell, Anse de Kouali, Bou-Ismaïl; Jijel, Taza.

***Chaetomorpha linum* (O.F.Müll.) Kütz. (C)**

Perret-Boudouresque & Seridi (1989) as *Chaetomorpha linum* and as *Chaetomorpha chlorotica* (Mont.) Kütz. – Ould-Ahmed (2015): Alger, Ain Benian; Boumerdès, Boudouaou.

***Cladophora albida* (Nees) Kütz. (SC)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Surcouf, Sidi-Fredj; Tipaza, Bouharoun, Tipaza – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Alger, Sidi-Fredj, Ain Benian; Bejaia, Gouraya.

***Cladophora coelothrix* Kütz. (IA)**

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Alger, Ain Benian.

***Cladophora dalmatica* Kütz. (IA)**

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (2015): Oran, Iles Habiba; Tipaza, Anse de Kouali.

***Cladophora echinus* (Biasol.) Kütz. (IA)**

Perret-Boudouresque & Seridi (1989).

***Cladophora hutchinsiae* (Dillwyn) Kütz. (SC)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Boumerdès, Boudouaou – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Seridi & al. (2007) – Ould-Ahmed (2015): Alger, Ain Benian.

***Cladophora laetevirens* (Dillwyn) Kütz. (SC)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Surcouf; Tipaza, Tipaza – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Cherrhell, Chenoua, Ain Tagourait, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian; Jijel, Taza.

***Cladophora lehmanniana* (Lindenb.) Kütz. (IA)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Surcouf – Ould-Ahmed (2015): Oran, Iles Habibas; Alger, Ain Benian.

***Cladophora prolifera* (Roth) Kütz. (IA)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Sidi-Fredj; Tipaza, Tipaza – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian; Bejaia, Gouraya; Jijel, Taza.

***Cladophora ruchingeri* (C.Agardh) Kütz. (Ab)**

Perret-Boudouresque & Seridi (1989).

***Cladophora rupestris* (L.) Kütz. (AP)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, Surcouf – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou; Bejaia, Gouraya.

***Cladophora sericea* (Huds.) Kütz. (SC)**

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (2015): Oran, Iles Habibas; Alger, Ain Benian.

***Cladophora vagabunda* (L.) Hoek (SC)**

Perret-Boudouresque & Seridi (1989).

***Cladophoropsis membranacea* (Bang ex C.Agardh) Børgesen (SC)**

Perret-Boudouresque & Seridi (1989).

***Microdictyon umbilicatum* (Velley) Zanardini (IP)**

Ould-Ahmed (2015) as *Microdictyon tenuius* J.E.Gray: Oran, Iles Habibas.

***Rhizoclonium riparium* (Roth) F.L.Harv. *sensu* Leliaert & Boedeker (Abt)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew.

***Valonia macrophysa* Kütz. (P)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew, Chenoua; Alger, Ain Benian.

***Valonia utricularis* (Roth) C.Agardh (P)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, Surcouf; Tipaza, Bouharoun – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Cherrhell, Chenoua; Alger, Sidi-Fredj; Bejaia, Gouraya.

Dasycladales* Pascher**Acetabularia acetabulum* (L.) P.C.Silva (IA)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian; Bejaia, Gouraya.

***Dasycladus vermicularis* (Scop.) Krasser (At)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (2015): Tipaza, Anse de Kouali.

***Parvocaulis parvulus* (Solms) S.Berger, Fettweiss, Gleissberg, Liddle, U.Richter, Sawitzky & Zuccarello (IP)**

Perret-Boudouresque & Seridi (1989) as *Polyphysa parvula* (Solms) Schnetter & Bula Meyer.

Ulotrichales* Borzi**Gomontia polyrhiza* (Lagerh.) Born. & Flah. (SC)**

Perret-Boudouresque & Seridi (1989).

***Ulothrix flacca* (Dillwyn) Thur. (SC)**

Perret-Boudouresque & Seridi (1989).

***Ulothrix subflaccida* Wille (IP)**

Perret-Boudouresque & Seridi (1989).

Ulvaes* A.L.Blackman & Tansley**Blidingia marginata* (J.Agardh) P.J.L.Dang. ex Bliding (SC)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew; Tipaza, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian.

***Blidingia minima* (Nägeli ex Kütz.) Kylin (SC)**

Ould-Ahmed (1994) as *Enteromorpha compressa* var. *minima* (Nägeli ex Hauck) Hamel: Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew; Alger, Sidi-Fredj; Boumerdès, Boudouaou.

***Entocladia major* (J.Feldm.) R.Nielsen (M)**

Perret-Boudouresque & Seridi (1989) as *Acrochaete major* (J.Feldm.) M.Perret-Boudouresque & H.Seridi.

***Entocladia flustrae* Reinke (Ab)**

Perret-Boudouresque & Seridi (1989).

***Phaeophila dendroides* (P.Crouan & H.Crouan) Batters. (SC)**

Perret-Boudouresque & Seridi (1989) – Ould-Ahmed (2015): Tipaza, Anse de Kouali.

***Tellamia contorta* Batters (Ab)**

Perret-Boudouresque & Seridi (1989).

***Ulva clathrata* (Roth) C.Agardh (C)**

Perret-Boudouresque & Seridi (1989) as *Enteromorpha clathrata* (Roth) Grev. and as *Enteromorpha ramulosa* (Hook.) Smith – Ould-Ahmed (1994) as *Enteromorpha clathrata*: Oran, Mers El Hadjadj; and as *Enteromorpha ramulosa* – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Anse de Kouali.

***Ulva compressa* L. (C)**

Perret-Boudouresque & Seridi (1989) as *Enteromorpha compressa* (L.) Nees – Seridi (1990) as *Enteromorpha compressa*: Alger, Bordj El Kiffan, Surcouf; Bourmerdès, Boudouaou; Tipaza, Bouharoun – Kadari-Méziane (1994) as *Enteromorpha compressa*: Tipaza, Bou-Ismaïl – Ould-Ahmed (1994) as *Enteromorpha compressa*: Oran, Mers El Hadjadj – Seridi & al. (2007) as *Enteromorpha compressa* – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Chenoua, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou; Jijel, Taza.

***Ulva fasciata* Delile (P)**

Perret-Boudouresque & Seridi (1989).

***Ulva flexuosa* Wulfen (C)**

Perret-Boudouresque & Seridi (1989) as *Enteromorpha flexuosa* (Wulfen) J.Agardh – Ould-Ahmed (1994) as *Enteromorpha flexuosa*: Oran, Mers El Hadjadj – Ould-Ahmed (2015): Oran, Arzew; Alger, Ain Benian.

***Ulva intestinalis* L. (C)**

Perret-Boudouresque & Seridi (1989) as *Enteromorpha intestinalis* (L.) Nees – Seridi (1990) as *Enteromorpha intestinalis*: Alger, Bordj El Kiffan, Surcouf; Tipaza, Bouharoun – Ould-Ahmed (1994) as *Enteromorpha intestinalis*: Oran, Mers El Hadjadj – Seridi & al. (2007) as *Enteromorpha intestinalis* – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Cherrhell, Chenoua, Ain Tagourait, Anse de Kouali, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou; Bejaia, Gouraya.

***Ulva linza* L. (C)**

Perret-Boudouresque & Seridi (1989) as *Enteromorpha linza* (L.) J.Agardh – Seridi (1990) as *Enteromorpha linza*: Alger, Bordj El Kiffan, Surcouf; Bourmerdès, Boudouaou – Ould-Ahmed (2015): Tipaza, Cherrhell, Ain Tagourait, Anse de Kouali; Alger, Sidi-Fredj, Ain Benian.

***Ulva prolifera* O.F.Müll. (SC)**

Kadari-Méziane (1994) as *Enteromorpha prolifera* (O.F. Müll.) J.Agardh: Tipaza, Bou-Ismaïl – Ould-Ahmed (2015): Tipaza, Chenoua.

***Ulva rigida* C.Agardh (C)**

Perret-Boudouresque & Seridi (1989) – Seridi (1990): Alger, Bordj El Kiffan, El Marsa, Surcouf; Bourmerdès, Boudouaou; Tipaza, Bouharoun, Tipaza – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Ould-Ahmed (1994): Oran, Mers El Hadjadj – Seridi & al. (2007) – Ould-Ahmed (2015): Oran, Iles Habibas, Arzew; Tipaza, Cherrhell, Ain Tagourait, Anse de Kouali, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou.

***Ulvella lens* P.Crouan & H.Crouan (SC)**

Ould-Ahmed (2015): Tipaza, Anse de Kouali.

***Ulvella pennata* (J.Feldm.) Cormaci, G. Furnari & Alongi (M)**

Perret-Boudouresque & Seridi (1989) as *Entocladia pennata* (J.Feldm.) R.Nielsen.

***Ulvella porphyrae* (J.Feldm.) R.Nielsen, O'Kelly & B.Wysor (M)**

Perret-Boudouresque & Seridi (1989) as *Pseudodictyon porphyrae* J.Feldm.

***Ulvella viridis* (Reinke) R.Nielsen, O'Kelly & B.Wysor (C)**

Perret-Boudouresque & Seridi (1989) as *Acrochaete viridis* (Reinke) R.Nielsen – Ould-Ahmed (2015) as *Acrochaete viridis*: Tipaza, Anse de Kouali.

Incertae sedis***Blastophysa rhizopus* Reinke (Abt)**

Perret-Boudouresque & Seridi (1989) as *Blastophysa polymorpha* Kjellm. emend Printz – Ould-Ahmed (2015): Tipaza, Anse de Kouali.

Taxa excludenda***Monostroma grevillei* (Thur.) Wittr.**

Ould-Ahmed (2015): Tipaza, Anse de Kouali.

In the Mediterranean marine benthic flora, Cormaci & al. (2014) included this species in *taxa excludenda*.

Ulva lactuca L.

Perret-Boudouresque & Seridi (1989) – Kadari-Méziane (1994): Tipaza, Bou-Ismaïl – Seridi & al. (2007) – Ould-Ahmed (2015): Tipaza, Cherchell, Chenoua, Ain Tagourait, Anse de Kouali, Bou-Ismaïl; Alger, Sidi-Fredj, Ain Benian; Boumerdès, Boudouaou; Bejaia, Gouraya; Jijel, Taza.

In the Mediterranean marine benthic flora, Cormaci & al. (2014) included this species in *taxa excludenda*.

DISCUSSION

The present checklist encompasses 73 accepted green algal taxa registered to date in Algeria, and two taxa are considered as *taxa excludenda*. The best represented genera have been *Cladophora* (13 species), *Ulva* L. (8 species), *Bryopsis* J.V.Lamour. (8 species) and *Codium* Stackh. (7 species). The number of *Ulvophyceae* registered on the Algerian coasts is low in comparison with its total number for the entire Mediterranean Sea (176 taxa) (Cormaci & al. 2014), or for the Adriatic Sea (134 taxa) (Antolic & al. 2001). However, it is similar to other Mediterranean countries such as Greece (95 taxa) (Tsiamis & al. 2014) and Tunisia (71 taxa) (Guiry & Guiry 2019), and higher than Libya (31 taxa) (Guiry & Guiry 2019).

The current catalogue added eight new records to the included in Perret-Boudouresque & Seridi (1989). *Codium fragile* and *Caulerpa cylindracea* are species included in the list of introduced species of the Mediterranean Sea (Zenetos & al. 2010, 2012). The former is a species originate from the northwestern Pacific and at present with a cosmopolitan distribution. Seridi (1990) cited this species for the first time in Algeria, but later has been cited frequently by other authors. *Caulerpa cylindracea* is a species introduced from western Australia (Silva & al. 1996) and in expansion in the Mediterranean Sea. Actually, this species is cited in all the Mediterranean area and in the Atlantic, Pacific and Indic Oceans (Guiry & Guiry 2019). It was cited for the first time in Algeria by Ould-Ahmed & Meinesz (2007), and later by Ould-Ahmed (2015) in Bou-Ismaïl, Sidi-Fredj and Ain Benian. Three new species belong to the order *Ulvales*: *Ulva prolifera*, *Ulvella lens* and *Blidingia minima* and two to the order *Cladophorales*: *Chaetomorpha ligustica* and *Microdictyon umbilicatum*. These five species are cited along all the Mediterranean coasts. Regarding the remaining new species, *Bryopsis secunda*, is only known from the Mediterranean Sea (Guiry & Guiry 2019). Cormaci & al. (2014) indicated that is a rare species and according Pignatti (1962) most of the ancient records are misidentifications for *Bryopsis hypnoides*.

Biogeographically, the Algerian flora of *Ulvophyceae* is characterized by a high number of sub-cosmopolitan and

cosmopolitan taxa (28 taxa, 38%) followed by Atlantic taxa (11 taxa, 15%), Mediterranean and Indo-Atlantic (8 taxa each, 11%), Pantropical (7 taxa, 10%) and Atlanto-Pacific and Indo-Pacific (5 taxa each, 7%). The circumboreal taxa are scarcely represented (1 species). This biogeographical composition of the Algerian flora of *Ulvophyceae* is similar to the observed in Algerian flora of *Phaeophyceae* by Ould-Ahmed & al. (2013).

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