

CHECKLIST OF BRYOZOA OF THE EASTERN ADRIATIC SEA

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Novosel, M. & Požar-Domac, A.: Checklist of Bryozoa of the Eastern Adriatic Sea. *Nat. Croat., Vol. 10, No. 4., 367–421, 2001, Zagreb.*

Bryozoans (Bryozoa) are among the least known phyla in the Adriatic Sea. In the past 250 years of research only 184 species have been recorded along the East Adriatic coast. Localities in the index of Bryozoa are divided into Northern, Central and Southern Adriatic. Synonyms are also provided.

Key words: Bryozoa, index, Adriatic Sea, bibliography

Novosel, M. & Požar-Domac, A.: Popis mahovnjaka (Bryozoa) istočne obale Jadrana. *Nat. Croat., Vol. 10, No. 4., 367–421, 2001, Zagreb.*

Mahovnjaci (Bryozoa) su jedna od najslabije poznatih skupina životinja u Jadranskom moru. Tijekom posljednjih 250 godina istraživanja, duž istočne obale Jadrana zabilježeno je samo 184 vrste mahovnjaka. U popisu vrsta nalazišta su podijeljena na sjeverni, srednji i južni Jadran. Navedeni su sinonimi.

Ključne riječi: Bryozoa, popis, Jadransko more, bibliografija

INTRODUCTION

Bryozoa are among the least known phyla in the Adriatic Sea. In spite of there being around 400 species recorded in the Mediterranean, and in the entire world over 5,600 recent (TODD, 2000) and over 14,700 fossil species (HOROWITZ & PACHUT, 2000), only 184 species have been recorded along the east Adriatic coast.

Excluding the Black Sea, the Adriatic is the northernmost part of the Mediterranean. This fact influences some important physical properties of even its southernmost areas. The Adriatic is 783 km long and its average width is 243 km.

In the south, the Adriatic Sea is separated from the Ionian Sea by the 72 km-wide Strait of Otranto, where a submarine sill of 800 m exists. In the Central Adriatic the Palagruža Sill lowers the sea depth to only 170 m. The two sills define

the South Adriatic Basin with its steep sides and an abyssal plain as its bottom with the maximal depth of 1233 m (ZORE-ARMANDA *et al.*, 1999).

According to its origin, its ecological conditions and the living world, the Adriatic Sea is a part of the Mediterranean entity. The Adriatic is the most isolated and displays the largest number of special features, which makes it not just an interesting but also a distinctively influential part of the Mediterranean entity. For example, cold North Adriatic water created under the influence of Alpine winds and watercourses affects the formation of the deep waters of the much larger Mediterranean and, *vice versa*, the warm intermediate saltwater of the Mediterranean that periodically enters the Adriatic has a great importance for the ecology and the living communities of the Adriatic (GAMULIN-BRIDA, 1974).

THE STUDY AREA

The Adriatic Sea has two distinct parts, divided by the Palagruža Sill: a bathyal southern basin with steep bottom slopes and a mostly steep coastline, dominated by the South Adriatic Pit; and the significantly shallower northern part, with more gradual bottom and coastal slopes, situated in the shelf area, with the exception of the Jabuka Pit (with a maximum depth of 268 m) (GAMULIN-BRIDA, 1974).

As a whole, the Adriatic is a temperate warm sea, but large annual and year-to-year fluctuations of its basic oceanographic properties give the sea a clearly continental aspect. Temperatures of even the deepest layers are almost always above 10 °C. The South Adriatic is 8–10 °C warmer than its central and northern parts during winter. In other seasons the horizontal temperature distribution is more uniform. The surface temperature extremes embrace a large range, from 6 °C to 29 °C (ZORE-ARMANDA *et al.*, 1999).

With respect to benthic settlement ecology and features, the younger northern part of the Adriatic is again divided into two distinctive sections: the shallow northern basin, with depths rarely exceeding 50 m, covering the enclosed shallow area of the bays of Trieste and Venice, Kvarner Bay and North-Adriatic channels down to the Jablanac – Ancona route; and the Central Adriatic basin divided by the Palagruža Sill from the primary South Adriatic basin. The South Adriatic basin has an especially well indented coastline in the Bay of Boka Kotorska and near Dubrovnik; otherwise the South-Adriatic coastline generally is less indented than the northern and central parts (GAMULIN-BRIDA, 1974).

The East Adriatic coast is predominantly karstic in relief, mostly formed of rocks and steep slopes, and with many islands which were once mountain peaks of the submerged part of the Dinarides whereas the west coast is mostly covered with sand sediment, less indented and predominantly shallow.

The East coast of the Northern Adriatic, bordered by the mountain range of the Dinarides, is dominated by the continent and freshwater inflow, unlike the Southern Adriatic, which is dominated by the open sea or the water body of the Mediterranean.

There are four water types in the Adriatic as concerns salinity, temperature and density. »North-Adriatic water« is the coldest, the most dense, and rich in oxygen. This water type sinks and in the benthic layer spreads into the Jabuka Pit, where it remains at the bottom. »Central-Adriatic water« is formed in the Jabuka Pit, displays lower salinity and density values, and lies above the North-Adriatic water. »South-Adriatic water« is formed in the Southern Adriatic depression and is very dense, constantly present in the benthic sections, and spreads all over the Adriatic as an intermediate layer. The »Mediterranean water« has the highest salinity and temperature, but is also a water type that is poor in nutrient salts. This water enters the Adriatic periodically (GAMULIN-BRIDA, 1974).

HISTORY OF RESEARCH

In 1750, in Venice, DONATI published a list of plant and animal species in the Adriatic, illustrated the species *Miriozoo* later named *Myriapora truncata* (Pallas, 1766) and included an un-named species of the genus *Retepora*. Six bryozoan species are listed for the bays of Trieste and Kvarner by GRUBE (1861). LORENZ (1863) mentions 13 species in the Kvarner region of the Adriatic Sea.

HELLER (1867) was the first to undertake systematic research of this animal group in the Eastern Adriatic, describing one new genus and 27 new species. His research covered the entire eastern coast, with the following sites: Portorož, Kvarner, Dalmatian coast, Lošinj, Šibenik, Hvar, Vis, Korčula and Dubrovnik.

After Heller, in 1886 HINCKS published a supplement to Heller's list of Adriatic Bryozoa. He described one new genus, five new species and two new subspecies of bryozoans. However, he did not specify information on sites. Then followed the research of CONDORELLI (1898), who published a list of five bryozoan species found by the Italian expedition on the vessel »Scilla«. In 1904, NEVIANI wrote a paper on the species *Schizotheca serratimargo* Hincks, 1886. ZIMMERMANN (1905–1906) published a list of marine flora and fauna, defining eight bryozoan species found in the Rovinj marine area. BRUSINA (1907) published a list of bryozoans of the Zadar Archipelago and the island of Dugi otok, recording 72 species.

In 1918 FRIEDL, reviewing all previous research, mentioned a total of 137 bryozoan species and 36 subspecies in the Adriatic, in the following areas: Adriatic (unspecified location), Trieste, Channel of Krušija, Channel of Silba, Kvarner, Istria, Brijuni islands, Rovinj, Korčula, Hvar, Vis, Dubrovnik, lake Prokljansko jezero, Dalmatia and Otrant. The taxonomic distribution of bryozoans listed by Friedl is summarised in Tab. 1.

VATOVA (1928) published a list of marine flora and fauna of the Rovinj marine area and the Bay of Trieste, recording 63 bryozoan species and 10 varieties. Subsequently, in 1940, VATOVA mentioned the species *Reteporella septentrionalis* Harmer, 1933 for the Central Adriatic, or the Jabuka Pit. KOLOSVÁRY (1943) published a paper on bryozoan biocoenoses in the Adriatic. He analysed the material collected in 1913–1914, during the Hungarian »Naiads« expedition. The material was collected at the following sites: Rovinj and its surroundings, Lim Bay, Novigrad, Rijeka, Senj and islands: Cres, Kornati, Silba, Palagruža, Jabuka, Brusnik, Sveti Andrija and Vis.

Tab. 1. Number of bryozoan species in the Adriatic listed by FRIEDL (1918).

Tab. 1. Broj utvrđenih svojiti Bryozoa prema FRIEDL-u (1918).

Ordo	Familia	Genus	Species	Varietas
Cheilostomata	19	47	98	29
Cyclostomata	6	11	25	4
Ctenostomata	7	10	14	3
TOTAL:	32	68	137	36

NIKOLIĆ (1949, 1954) also wrote about bryozoans, mostly referring to older authors, and mentioned the species »*Hippodiplosia*« *foliacea* (Ellis & Solander, 1786) as the association centre near Rovinj. ZAVODNIK (1963) authored a paper on the colonisers of the pen shell *Pinna nobilis* L. (near Rovinj), having found two bryozoan species on its shells. GAMULIN-BRIDA (1965) mentioned three bryozoan species recorded at the Central Dalmatian islands (Sušac and Bijelac near the island of Lastovo, Svetac near Lastovo, and Pakleni otoci), whereas GAMULIN-BRIDA *et al.* (1968) explored benthic biocoenoses of the Northern Adriatic, recording ten bryozoan species near Rovinj. Then, ZAVODNIK & IGIĆ (1968a,b) recorded seven bryozoan species while working on fouling organisms in the Northern Adriatic and Rovinj. KARAMAN & GAMULIN-BRIDA (1970) recorded ten bryozoan species in the Bay of Boka Kotorska. IGIĆ (1970) wrote a doctoral dissertation on the dynamics of encrusters on oysters and date mussels in the Northern Adriatic, having found ten bryozoan species growing on them. In 1976, LOVRIC mentions a coralligenic bryozoan biocoenosis of *Hippodiplosetum foliaceae* in the channel under Velebit Mountain (Island of Prvić, the Northern Adriatic). At the same island of Prvić SILÉN & HARMELIN (1976) described a new bryozoan species, *Haplopoma sciaphilum* Silén & Harmelin, 1976, on walls of cavity of steep precipice at 40 m of depth.

ZAVODNIK & ZAVODNIK (1982) recorded six bryozoan species in the area of Osor, and three species in the Kornati archipelago area in 1984. In 1989, ŠPAN *et al.* published a list of marine flora and fauna in the submarine area of the Island of Lokrum, having found 21 bryozoan species.

SENEŠ (1988b, 1989) explored benthic biocoenoses in the Rovinj marine area, recording ten bryozoan species. Furthermore SENEŠ (1988a, 1990) explored benthic biocoenoses of the Southern Adriatic (Pelješac peninsula, Mljet island) recording 21 bryozoan species and comparing them to those found in the Northern Adriatic.

More recently, MCKINNEY, F. K. (1991, 1992, 2000), MCKINNEY & JAKLIN (1993, 2000) and MCKINNEY, M. J. (1997) analysed the bryozoans in the area around Rovinj, mentioning 42 species. ZAVODNIK & KOVAČIĆ (2000) published an index of marine fauna in Rijeka Bay recording 27 bryozoan species. ZAVODNIK *et al.* (2000) published a list of benthic organisms in the submarine area of the Island of Jabuka, recording 89 bryozoan species, thus adding 18 species to the list of Bryozoa in the East Adriatic coast.

MATERIAL AND METHODS

Data in the list of bryozoan taxa for the East Adriatic coast have been collected from papers dating back to the 18th century and ending with the most recent works. Most of the older papers do not specify the exact sites, which have therefore been divided into Northern, Central and Southern Adriatic sites (Fig. 1), but there are also species generally recorded only to have been found in the Adriatic (marked by A in the list). Some species are probably wrongly identified and some

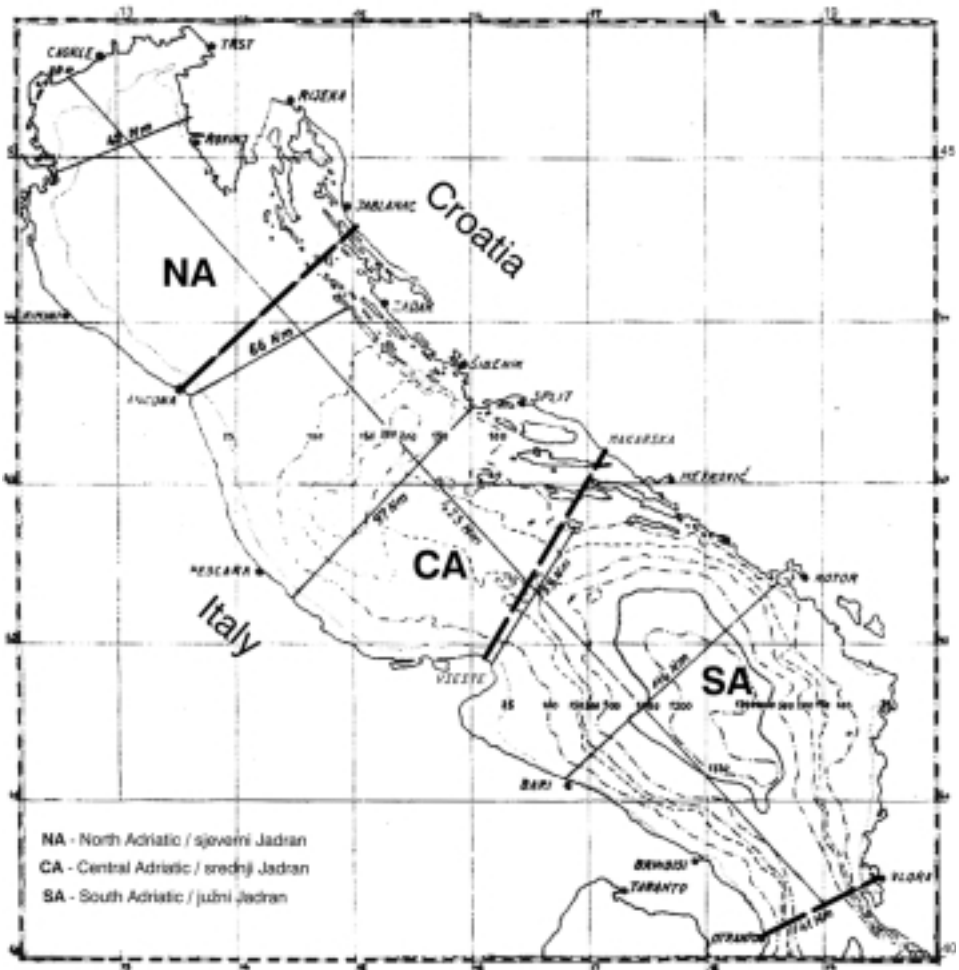


Fig. 1. Division of the Adriatic: Northern, Central and Southern Adriatic (after PÉRÈS & GAMULIN-BRIDA, 1973).

Sl. 1. Podjela Jadrana na sjeverni, srednji i južni (prema PÉRÈS & GAMULIN-BRIDA, 1973).

species were mentioned under old names for which we could not find modern synonyms in the literature (cf. *Index*, section B). Systematics, modern nomenclature and synonymy have been determined according to sources given in the *References*, section B.

DISCUSSION AND CONCLUSIONS

This paper documents literature records of 184 bryozoan species along the East Adriatic coast from the 18th century until the present day (Tab. 2).

Tab. 2. Present number of bryozoan species in the east Adriatic Sea.

Tab. 2. Broj do sada utvrđenih svojti Bryozoa u istočnom Jadranu.

Ordo	Familia	Genus	Species	Varietas
Cheilostomata	36	72	133	1
Cyclostomata	8	18	33	
Ctenostomata	8	11	18	
TOTAL:	52	101	184	1

The best known representatives of this group are those in the Northern Adriatic, where 132 bryozoan species have been recorded to date; 131 species have been documented for the Central Adriatic area; and the least explored is the Southern Adriatic, with only 48 recorded bryozoan species. The numbers (as known) are contrary to the general Adriatic diversity gradient noted by Gamulin-Brida, and many more species can be expected to be found in the south (PÉRÈS & GAMULIN-BRIDA, 1973).

Research in bryozoans along the East Adriatic coast therefore requires urgent, systematic action. Inadequacy of research into this phylum in the past hundred years is corroborated by the data provided by FRIEDL: in 1918 there were 220 known bryozoan species in the Mediterranean, out of which there were 137 in the Adriatic; today, 400 species have been defined for the Mediterranean, with only 184 species for the Adriatic.

ACKNOWLEDGEMENTS

The authors are greatly obliged to Dr. D. Zavodnik, Dr. J.-G. Harmelin and Dr. F. K. McKinney for their invaluable help and suggestions in processing the bryozoan index. The support of the Ministry of Science and Technology of the Republic of Croatia (Project No. 119108) and Ecological Research Society »Paks« is acknowledged.

POPIS MAHOVNJAKA (BRYOZOA) ISTOČNE OBALE JADRANA

UVOD

Mahovnjaci (Bryozoa) su jedna od najslabije poznatih skupina životinja u Jadranskom moru. Iako je u Mediteranu do danas zabilježeno oko 400 vrsta, a u svijetu čak više od 5.600 recentnih (TODD, 2000) i više od 14.700 fosilnih (HOROWITZ & PACHUT, 2000), za istočnu obalu Jadrana zabilježeno je do danas samo 184 vrste.

Jadransko more je najsjeverniji dio Mediterana (osim Crnog mora). Dugo je 783 km, a prosječno široko 243 km. Na jugu ga od Jonskog mora dijele 72 km široka Otrantska vrata dubine 800 m. U srednjem Jadranu Palagruški prag smanjuje dubinu na samo 170 m. Otrantski i Palagruški prag okružuju južnojadranski bazen strmog dna s abisalnom ravnicom maksimalne dubine 1233 m (ZORE-ARMANDA *et al.*, 1999).

Jadransko more pripada cjelini Mediterana po svom postanku, svojim ekološkim svojstvima i živom svijetu. Jadransko more ima najviše izoliran položaj, odnosno najviše svojih posebnih osobina što ga čini ne samo osobito zanimljivim nego i utjecajnim dijelom cjeline Mediterana. Na primjer, hladna sjevernojadranska voda koja nastaje uz utjecaj vjetrova i voda s Alpa, djeluje na formiranje dubinske vode mnogo većeg Sredozemnog mora; i obrnuto, topla i slana intermedijarna mediteranska voda koja se periodički ulijeva u Jadran veoma je važna za njegove ekološke prilike i životne zajednice (GAMULIN-BRIDA, 1974).

ISTRAŽIVANO PODRUČJE

U Jadranu se razlikuju dva glavna dijela, razgraničena Palagruškim pragom: batijalni južni bazen s naglim nagibima dna i pretežno strmim obalama kojim dominira južnojadranska kotlina i znatno plići sjeverni dio, s postepenijim nagibima obala i dna, smješten na području šelfa, osim potoline Jabuke (s najvećom dubinom od 268 m) (GAMULIN-BRIDA, 1974).

Općenito, Jadran je umjereno toplo more, ali mu kontinentalni karakter daju velike godišnje fluktuacije glavnih oceanografskih svojstava. Temperature najdubljih dijelova južnojadranske kotline gotovo nikada ne padnu ispod 10 °C. Južni Jadran je zimi 8–10 °C topliji od srednjeg i sjevernog dijela, dok je tijekom drugih godišnjih doba temperatura izjednačenija u svim dijelovima. Ekstremi površinskih temperatura uvelike variraju, od 6 °C do 29 °C (ZORE-ARMANDA *et al.*, 1999).

S obzirom na ekološke prilike i karakteristike bentoskih naselja, mlađi sjeverni dio Jadrana raščlanjuje se opet u dva dijela: u plitki sjeverni bazen gdje dubine rijetko prelaze 50 m, a zauzima zatvoreno i plitko područje Tršćanskog i Venecijanskog zaljeva, Kvarnera i sjevernojadranskih kanala do linije Jablanac – Ancona, i u bazen srednjeg Jadrana koji Palagruški prag dijeli od primarnog bazena južnog Jadrana. U bazenu južnog Jadrana osobito je dobro razvedena obala na području

Boke Kotorske i Dubrovnika; inače su obale bazena južnog Jadrana slabije razvedene nego obale srednjeg i sjevernog Jadrana (GAMULIN-BRIDA, 1974).

Istočnu obalu Jadrana karakterizira krški reljef, pretežno je kamenita i strma, bogata otocima, nekadašnjim vrhuncima potopljenog dijela Dinarida, dok je zapadna obala pretežno pokrivena pjeskovitim sedimentima, slabije razvedena i plitka.

U istočnom dijelu sjevernog Jadrana, okruženom planinskim masivima Dinarida, dominira utjecaj kopna i dotoka slatke vode, dok, naprotiv, u južnom Jadranu dominira utjecaj otvorenog mora, odnosno vodenih masa Mediterana.

Obzirom na salinitet, temperaturu i gustoću u Jadranskom moru razlikuju se četiri tipa vode. »Sjevernojadranska voda« je najhladnija i najgušća te bogata kisikom. Ova voda tone i u pridnenom sloju širi se u kotlinu Jabuke, gdje se stalno nalazi na dnu. »Srednojadranska voda« formira se u kotlini Jabuke, nižeg je saliniteta i niže gustoće te se smješta iznad sjevernojadranske vode. »Južnojadranska voda« formira se u kotlini južnog Jadrana i velike je gustoće. Stalno je prisutna u pridnenom dijelu, dok se u intermedijarnom sloju širi po cijelom Jadranu. Najslanija i najtoplija je »mediteranska voda«, ali siromašna hranjivim solima. Ona se periodički ulijeva u Jadran (GAMULIN-BRIDA, 1974).

POVIJEST ISTRAŽIVANJA

Godine 1750. DONATI u Veneciji objavljuje popis biljnih i životinjskih vrsta u Jadranu te od mahovnjaka spominje uz crtež vrstu *Myriapora truncata* (Pallas, 1766) te rod *Retepora*. U akvatoriju Trsta i Kvarnera GRUBE (1861) popisuje šest vrsta Bryozoa. Za Kvarnersko područje LORENZ (1863) spominje 13 vrsta.

HELLER (1867) se prvi sustavno bavi ovom skupinom u istočnom Jadranu te opisuje jedan novi rod i 27 novih vrsta. U svom istraživanju obuhvatio je cijelu istočnu obalu Jadrana, odnosno sljedeća nalazišta: Portorož, Kvarner, obalu Dalmacije, Lošinj, Šibenik, Hvar, Vis, Korčulu i Dubrovnik.

Nakon Hellera, 1886. godine HINCKS objavljuje dopunu Hellerovu popisu Bryozoa Jadrana. Opisuje jedan novi rod, pet novih vrsta i dvije nove podvrste mahovnjaka. On, međutim, ne daje informacije o točnim nalazištima. Sljedeći koji se bavio ovom grupom bio je CONDORELLI (1898). On nalazi pet vrsta mahovnjaka za vrijeme talijanske ekspedicije istraživačkim brodom »Scilla«. Godine 1904. NEVIANI objavljuje rad o vrsti *Schizotheca serratimargo* Hincks, 1886. ZIMMERMANN (1905–1906) objavljuje popis morske flore i faune okolice Rovinja i navodi osam vrsta mahovnjaka iz rovinjskog akvatorija. BRUSINA (1907) objavljuje Prilog za faunu mahovnjaka Dalmacije gdje spominje 72 vrste sakupljene na području Zadra i okolice te u podmorju Dugog otoka.

Zatim 1918. godine FRIEDL revidira sve dotadašnje radove i navodi za Jadran ukupno 137 vrsta i 36 podvrsta mahovnjaka i to za područja: Jadran općenito te za Trst, kanal Krušija, Silbanski kanal, Kvarner, Istru, Brijunsko otočje, Rovinj, Korčulu, Hvar, Vis, Dubrovnik, Prokljansko jezero, Dalmaciju i Otrant (Tab. 1).

VATOVA (1928) objavljuje popis morske flore i faune rovinjskog akvatorija i Tršćanskog zaljeva te bilježi 63 vrste i 10 varijeteta mahovnjaka. Zatim 1940. godine VATOVA spominje vrstu *Reteporella septentrionalis* Harmer, 1933 za srednji Jadran, odnosno jabučki bazen. KOLOSVÁRY (1943) objavljuje rad o biocenoza Bryozoa u Jadranu. On je obrađivao materijal sakupljen 1913–1914. godine za vrijeme mađarske ekspedicije »Najade«. Nalazišta obrađenih vrsta su: Rovinj i okolica, Limski kanal, Novigrad, Rijeka, Senj, Cres, Kornati, Silba, Palagruža, Jabuka, Brusnik, Sv. Andrija i Vis.

O mahovnjacima piše i NIKOLIĆ (1949, 1954) uglavnom spominjući starije autore i njihove radove te piše o vrsti »*Hippodiplosia*« *foliacea* (Ellis & Solander, 1786) kao asocijacijskom centru u okolici Rovinja. ZAVODNIK (1963) objavljuje rad o školjkašu *Pinna nobilis* L. kao obraštajnom centru (u okolici Rovinja) i na njenim ljušturama nalazi dvije vrste mahovnjaka. Zatim GAMULIN-BRIDA (1965) spominje tri vrste Bryozoa zabilježenih za područje srednjedalmatinskih otoka (Sušac i Bijelac pokraj Lastova, Svetac pokraj Lastova te Pakleni otoci), a GAMULIN-BRIDA i suradnici (1968) istražuju bentoske biocenoze sjevernog Jadrana i za okolice Rovinja navode deset vrsta mahovnjaka. Iste godine ZAVODNIK & IGIĆ (1968a, 1968b) istražuju obraštajne organizme u sjevernom Jadranu i u Rovinju te bilježe sedam vrsta Bryozoa. KARAMAN & GAMULIN-BRIDA (1970) bilježe deset vrsta mahovnjaka za područje Boke Kotorske. IGIĆ (1970) u doktorskoj disertaciji obrađuje dinamiku obraštajnih zajednica na kamenicama i dagnjama u sjevernom Jadranu i na njima nalazi deset vrsta mahovnjaka. Godine 1976. LOVRIĆ spominje u Velebitskom kanalu (otok Prvić) koraligensku »briozojšku« biocenozu *Hippodiplosetum foliaceae*. SILÉN & HARMELIN (1976) opisuju novu vrstu, *Haplopoma sciaphilum* Silén & Harmelin, 1976, nađenu u podmorju otoka Prvića (Velebitski kanal), u šupljinama podmorske litice na 40 m dubine.

ZAVODNIK & ZAVODNIK (1982) bilježe šest vrsta Bryozoa za područje Osora, a 1984. godine tri vrste u akvatoriju Kornata. Godine 1989. ŠPAN i suradnici objavljuju popis morske flore i faune u podmorju otoka Lokruma te utvrđuju 21 vrstu skupine Bryozoa.

SENEŠ (1988b, 1989) istražuje bentoske biocenoze rovinjskog akvatorija i spominje deset vrsta mahovnjaka. Također SENEŠ (1988a, 1990) istražuje i bentoske biocenoze južnog Jadrana (Pelješac, Mljet) gdje spominje 21 vrstu Bryozoa te ih uspoređuje s vrstama pronađenim u sjevernom Jadranu.

U novije vrijeme MCKINNEY, F. K. (1991, 1992, 2000), MCKINNEY & JAKLIN (1993, 2000) te MCKINNEY, M. J. (1997) istražuju mahovnjake u okolici Rovinja te spominju 42 vrste za to područje. ZAVODNIK & KOVAČIĆ (2000) objavljuju popis morske faune Riječkog zaljeva i spominju 27 vrsta. ZAVODNIK i suradnici (2000) objavljuju popis bentoskih organizama u podmorju otoka Jabuke i bilježe 89 vrsta mahovnjaka čime je popis Bryozoa istočne obale Jadrana uvećan za 18 vrsta.

MATERIJALI I METODE

Podaci u popisu svojti skupine Bryozoa istočne obale Jadrana sakupljeni su iz radova objavljenih od 18. stoljeća do danas. U većini starijih izvora točne se lokacije nalaza ne spominju. Stoga su u ovom radu nalazišta podijeljena na ona u sjevernom, srednjem ili južnom Jadranu (Sl. 1), a vrste za koje autori bilježe samo da su nađene u Jadranu u popisu su označene slovom **A**.

Neke vrste su vjerojatno pogrešno određene, a stara imena nekih vrsta mahovnjaka nisu pronađena u literaturi pa tako niti njihovo suvremeno nazivlje (poglavlje *Index* section B). Sistematika, suvremeno nazivlje i sinonimija pripremljeni su prema izvorima u poglavlju *References* section B.

RASPRAVA I ZAKLJUČCI

U ovom radu obrađeno je 184 vrste mahovnjaka koje se spominju duž istočne obale Jadrana od 18. stoljeća do danas (Tab. 2).

Činjenica je da su do sada najviše istraživani i stoga najbolje poznati predstavnici ove skupine u sjevernom Jadranu gdje je do danas zabilježeno 132 vrste Bryozoa. Za područje srednjeg Jadrana zabilježena je 131 vrsta, dok je najslabije istraženo područje južnog Jadrana gdje je zabilježeno samo 48 vrsta Bryozoa. Ovi su podaci u suprotnosti s općim jadranskim gradijentom biološke raznolikosti po kojemu se može očekivati puno veći broj vrsta u južnom nego u sjevernom Jadranu (PÉRÈS & GAMULIN-BRIDA, 1973).

Stoga istraživanje mahovnjaka duž istočne obale Jadrana zahtijeva hitno i sustavno djelovanje. Koliko je slabo istraživana ova skupina u posljednjih stotinjak godina, govori i FRIEDL-ov podatak da je 1918. godine u Mediteranu bilo poznato 220 vrsta mahovnjaka, a u Jadranu 137 vrsta. Danas ih je na području Mediterana opisano 400, a u Jadranu 184 vrste.

ZAHVALE

Autori su osobito zahvalni Dr. D. Zavodniku, Dr. J.-G. Harmelinu i Dr. F. K. McKinneyju na njihovoj dragocjenoj pomoći i savjetima u pripremi popisa mahovnjaka. Također zahvaljujemo Ministarstvu znanosti i tehnologije Republike Hrvatske (projekt br. 119108) i Društvu za ekološka istraživanja »Paks« na pruženoj potpori.

INDEX OF TAXA / POPIS SVOJTI

CAPTIONS TO INDEX / NAZIVI I KRATICE U POPISU

*Species – Vrsta**Synonyms – Sinonimi*

References – Izvori

A – Adriatic Sea, locality not known / Jadransko more, nalazište nepoznato

NA – North Adriatic / sjeverni Jadran

CA – Central Adriatic / srednji Jadran

SA – South Adriatic / južni Jadran

Phylum Bryozoa**Class Gymnolaemata****Order Cheilostomatida**

ADEONIDAE Jullien, 1903

Adeonella Busk, 18841. *Adeonella pallasii* (Heller, 1867)*Schizoporella pallasii*, Heller

A: HINCKS (1886), FRIEDL (1918)

NA: VATOVA (1928)

CA: ZAVODNIK *et al.* (2000)*Reptadeonella* Busk, 18842. *Reptadeonella violacea* (Johnston, 1847)*Adeona violacea*, Johnston; *Lepralia heckelii*, Reuss; *Lepralia violacea*, Johnston; *Microporella violacea*, Johnston

NA: LORENZ (1863), HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY (2000), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: HELLER (1867)

AETEIDAE Smitt, 1867

Aetea Lamouroux, 18123. *Aetea anguina* (Linnaeus, 1758)*Anquinaria spathulata*, Lamouroux; *Sertularia anquina*, Linnaeus

A: HELLER (1867)

NA: FRIEDL (1918), ZAVODNIK & KOVAČIĆ (2000)

4. *Aetea sica* (Couch, 1844)
Aetea anguina (Linnaeus, 1758) forma *recta* (Hincks, 1862), *Aetea recta* Hincks, 1880
A: HINCKS (1886), FRIEDL (1918)
NA: VATOVA (1928), NIKOLIĆ (1959), SENEŠ (1988a)
CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)
SA: SENEŠ (1988a)
5. *Aetea truncata* (Landsborough, 1852)
A: HINCKS (1886), FRIEDL (1918)
NA: NIKOLIĆ (1959), ZAVODNIK & IGIĆ (1968a,b), SENEŠ (1988a), MCKINNEY (1997), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)
CA: ZAVODNIK *et al.* (2000)
SA: SENEŠ (1988a, 1990)

BEANIIDAE Canu & Bassler, 1927

Beania Johnston, 1840

6. *Beania hirtissima* (Heller, 1867)
Diachoris hirtissima, Heller
NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY & JAKLIN (2000)
CA: BRUSINA (1907)
SA: HELLER (1867), ŠPAN *et al.* (1989)
7. *Beania hirtissima* subsp. *cylindrica* (Hincks, 1886)
Diachoris armata Heller, 1867 as *Calechara patellaria* (Moll, 1803), *Diachoris hirtissima* Heller forma *cylindrica* Hincks, 1886, *Diachoris simplex* Heller, 1867 as *Calechara patellaria* (Moll, 1803)
A: HINCKS (1886), FRIEDL (1918)
CA: HELLER (1867)
SA: HELLER (1867)
8. *Beania magellanica* (Busk, 1852)
Diachoris buskei, Heller; *Diachoris magellanica*, Busk
NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY & JAKLIN (2000)
CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)
SA: HELLER (1867), ŠPAN *et al.* (1989)
9. *Beania mirabilis* Johnston, 1840
NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959)

BIRECTIPORIDAE MacGillivray, 1895

Codonellina Canu & Bassler, 1934

10. *Codonellina lacunata* Hayward & Hansen, 1999
Lepralia galeata, Busk
NA: HELLER (1867)

Hippoporina Neviani, 1895

11. *Hippoporina lineolifera* (Hincks, 1886)

Smittina marsupifera (Busk, 1882); *Smittina marsupifera* (Busk, 1882) var. *lineolifera* (Hincks, 1886); *Schizomavella marsupifera* (Busk, 1882); *Schizoporella lineolifera* Hincks, 1886

A: HINCKS (1886), FRIEDL (1918)

NA: MCKINNEY (2000), MCKINNEY & JAKLIN (2000)

12. *Hippoporina pertusa* (Esper, 1796)

Cellepora pertusa, Esper; *Lepralia pertusa* (Esper, 1796)

A: KOLOSVÁRY (1943)

NA: HELLER (1867), FRIEDL (1918)

CA: HELLER (1867), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: HELLER (1867), FRIEDL (1918)

Metroperiella Canu & Bassler, 1917

13. *Metroperiella lepralioides* (Calvet, 1903)

CA: ZAVODNIK *et al.* (2000)

Pentapora Fischer, 1807

14. *Pentapora fascialis* (Pallas, 1766)

Eschara fascialis Pallas, 1766; *Hippodiplosia fascialis*; *Hippodiplosia foliacea* (Ellis et Solander, 1786); *Hippoporina foliacea* (Ellis et Solander, 1786); *Lepralia foliacea* Hincks, 1880; *Pentapora foliacea*; *Smittina foliacea* (Ellis et Solander, 1786); *Smittina foliacea* (Ellis et Solander, 1786) var. *bidentata* (Milne Edwards, 1838); *Smittina foliacea* (Ellis et Solander, 1786) var. *fascialis* (Pallas, 1766)

A: CONDORELLI (1898), FRIEDL (1918), KOLOSVÁRY (1943)

NA: HELLER (1867), FRIEDL (1918), NIKOLIĆ (1959, 1960), GAMULIN-BRIDA *et al.* (1968), LOVRIĆ (1976), ZAVODNIK & ZAVODNIK (1982), SENEŠ (1988a, 1988b, 1989), MCKINNEY (1991, 1992), MCKINNEY & JAKLIN (2000)

CA: BRUSINA (1907)

SA: GAMULIN-BRIDA (1965), KARAMAN & GAMULIN-BRIDA (1970), SENEŠ (1988a), ŠPAN *et al.* (1989)

15. *Pentapora ottomulleriana* (Moll, 1803)

Smittina ottomulleriana (Moll, 1803); *Smittina pallasiana* (Moll, 1803)

A: FRIEDL (1918)

NA: FRIEDL (1918)

CA: FRIEDL (1918)

Schizomavella Canu & Bassler, 1917

16. *Schizomavella auriculata* (Hassall, 1842)

Schizoporella auriculata, Hassall; *Smittina auriculata* van Hasselt, 1841

A: HINCKS (1886), FRIEDL (1918)

NA: VATOVA (1928), IGIĆ (1975)

17. *Schizomavella cuspidata* (Hincks, 1880)
CA: ZAVODNIK *et al.* (2000)
18. *Schizomavella discoidea* (Busk, 1859)
Schizoporella discoidea (Busk, 1859)
A: FRIEDL (1918)
NA: MCKINNEY (2000), MCKINNEY & JAKLIN (2000)
CA: ZAVODNIK *et al.* (2000)
19. *Schizomavella hastata* (Hincks, 1862)
Schizoporella linearis hastata Hincks; *Smittina linearis* van Hasselt, 1841 (*Smittia*)
var. *hastata* (Hincks, 1880)
A: FRIEDL (1918)
CA: BRUSINA (1907)
20. *Schizomavella linearis* (Hassall, 1841)
Lepralia linearis, Hassall; *Schizoporella linearis* (Hass); *Smittina* (*Smittia*) *linearis*
van Hasselt, 1841
A: KOLOSVÁRY (1943)
NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (1992), MCKINNEY & JAKLIN (2000)
CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)
21. *Schizomavella mamillata* (Hincks, 1880)
CA: ZAVODNIK *et al.* (2000)
22. *Schizomavella ochracea* (Hincks, 1880)
Smittina auriculata (Hassall, 1841) var. *spathulata* (Hincks, 1886) (=var. *ochracea*
Hincks)?
NA: FRIEDL (1918), VATOVA (1928)
23. *Schizomavella rudis* (Manzoni, 1869)
NA: MCKINNEY & JAKLIN (2000)

BRYOCRYPTELLIDAE Vigneaux, 1949

Porella Gray, 1848

24. *Porella concinna* (Busk, 1854)
Lepralia concinna, Busk
CA: HELLER (1867), FRIEDL (1918)

BUGULIDAE Gray, 1848

Bugula Oken, 1815

25. *Bugula aperta* (Hincks, 1886)
Bugula plumosa (Pallas, 1766) forma *aperta* (Hincks, 1886); *Bugula spicata* forma
aperta?
A: HINCKS (1886), FRIEDL (1918)
NA: FRIEDL (1918)

26. *Bugula avicularia* (Linnaeus, 1758)
Cellularia avicularia, Pallas; *Sertularia avicularia*, Linnaeus
NA: HELLER (1867), FRIEDL (1918), NIKOLIĆ (1959), ZAVODNIK & IGIĆ (1968a,b),
ZAVODNIK & KOVAČIĆ (2000)
CA: HELLER (1867), ZAVODNIK *et al.* (2000)
27. *Bugula calathus* Norman, 1864
A: HINCKS (1886)
NA: FRIEDL (1918)
28. *Bugula flabellata* (J V Thompson, in Gray, 1848)
Flustra avicularis, Sowerby
NA: HELLER (1867), ZIMMERMANN (1905 – 1906), FRIEDL (1918), VATOVA (1928)
CA: HELLER (1867), BRUSINA (1907)
SA: HELLER (1867)
29. *Bugula fulva* Ryland, 1960
Bugula ditrupae Busk, 1858
A: HINCKS (1886), FRIEDL (1918), KOLOSVÁRY (1943)
30. *Bugula gracilis* (Busk, 1852)
Bugula gracilis (Busk, 1852) var. *unicinata* Hincks, 1880
A: FRIEDL (1918)
CA: HINCKS (1886)
31. *Bugula neritina* (Linnaeus, 1758)
Acamarchis neritina, Lamouroux; *Bugula neritina*, Oken; *Cellularia neritina*, Pallas;
Sertularia neritina, Linnaeus
A: HELLER (1867)
CA: BRUSINA (1907)
NA: ZIMMERMANN (1905–1906), FRIEDL (1918), VATOVA (1928), ZAVODNIK & IGIĆ
(1968a,b)
32. *Bugula plumosa* (Pallas, 1766)
Bugula plumosa, Busk; *Cellularia fastigata*, Blumenb.; *Cellularia plumosa*, Pallas
A: FRIEDL (1918)
NA: HELLER (1867), ZIMMERMANN (1905–1906), VATOVA (1928), IGIĆ (1975)
33. *Bugula simplex* Hincks, 1886
A: HINCKS (1886), FRIEDL (1918)
NA: IGIĆ (1975), ZAVODNIK & KOVAČIĆ (2000)
CA: BRUSINA (1907)
34. *Bugula spicata* (Hincks, 1880)
A: HINCKS (1886), FRIEDL (1918)
SA: FRIEDL (1918)

35. *Bugula stolonifera* Ryland, 1960
 NA: ZAVODNIK & KOVAČIĆ (2000)

CALLOPORIDAE Norman, 1903

Amphiblestrum Gray, 1848

36. *Amphiblestrum flemingii* (Busk, 1854)
Callopora flemingii (Busk, 1853)
 A: KOLOSVÁRY (1943)
 NA: FRIEDL (1918)
 CA: FRIEDL (1918)

Aplousina Canu & Bassler, 1927

37. *Aplousina filum* (Jullien, 1903)
 CA: ZAVODNIK *et al.* (2000)

Callopora Gray, 1848

38. *Callopora dumerilii* (Audouin, 1826)
Membranipora dumerilii, Audouin
 A: HINCKS (1886)
 NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (2000), MCKINNEY & JAKLIN (2000)
 CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)
39. *Callopora lineata* (Linnaeus, 1767)
Flustra hirta, Lamouroux; *Flustra lineata*, Linnaeus; *Membranipora lineata*, Busk
 CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

Crassimarginatella Canu, 1900

40. *Crassimarginatella crassimarginata* (Hincks, 1880)
 CA: ZAVODNIK *et al.* (2000)
41. *Crassimarginatella maderensis* (Waters, 1898)
 CA: ZAVODNIK *et al.* (2000)
42. *Crassimarginatella solidula* (Hincks, 1860)
 CA: ZAVODNIK *et al.* (2000)

Ellisina Norman, 1903

43. *Ellisina gautieri* Fernandez Pulpeiro & Reverter Gil, 1993
 CA: ZAVODNIK *et al.* (2000)

Ramphonotus Norman, 1894

44. *Ramphonotus minax* (Busk, 1860)
Callopora flemingii (Busk, 1853) var. *minax* Busk, 1860
 A: FRIEDL (1918)

CANDIDAE d'Orbigny, 1851

Caberea Lamouroux, 1816

45. *Caberea boryi* (Audouin, 1826)

Caberea Boryi, Busk; *Caberea patagonica*, Busk; *Caberea zelanica*, Busk; *Crisia Boryi*, Audouin

NA: FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), MCKINNEY & JAKLIN (2000)

CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)

Scrupocellaria van Beneden, 1845

46. *Scrupocellaria bertholleti* (Audouin, 1826)

Scrupocellaria bertholleti, Savigny; *Scrupocellaria capreolus*, Heller; *Scrupocellaria capreolus?*, *Scrupocellaria cervicornis?*, *Scrupocellaria reptans* (Linnaeus, 1758) var. *bertholleti* Audouin 1826; *Scrupocellaria reptans* (Linnaeus, 1758) var. *capreolus* Heller, 1867

A: HINCKS (1886)

NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), ZAVODNIK & KOVAČIĆ (2000)

CA: FRIEDL (1918)

47. *Scrupocellaria delilii* (Audouin, 1826)

Scrupocellaria macandrei Busk, 1852

NA: MCKINNEY & JAKLIN (2000)

CA: HELLER (1867)

SA: FRIEDL (1918)

48. *Scrupocellaria reptans* (Linnaeus, 1767)

Acamarchis geoffroi, Audouin; *Canda reptans*, Busk; *Cellularia reptans*, Pallas; *Sertularia reptans*, Linnaeus

NA: HELLER (1867), FRIEDL (1918), ZAVODNIK & IGIĆ (1968a,b), IGIĆ (1975), SENEŠ (1988a, 1989)

CA: HELLER (1867), BRUSINA (1907), GAMULIN-BRIDA (1965), ZAVODNIK *et al.* (2000)

SA: HELLER (1867), FRIEDL (1918), KARAMAN & GAMULIN-BRIDA (1970), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

49. *Scrupocellaria scrupea* Busk, 1852

NA: HELLER (1867), FRIEDL (1918), VATOVA (1928)

CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)

SA: HELLER (1867)

50. *Scrupocellaria scruposa* (Linnaeus, 1758)

Cellularia scruposa, Pallas; *Sertularia scruposa*, Linnaeus

NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY & JAKLIN (2000)

CA: HELLER (1867), ZAVODNIK *et al.* (2000)

SA: HELLER (1867), FRIEDL (1918)

CELLARIIDAE Lamouroux, 1821

Cellaria Ellis & Solander, 1786

51. *Cellaria fistulosa* (Linnaeus, 1758)
Cellaria salicornia, Pallas; *Salicornaria farciminoidea*, Johnston; *Salicornaria fistulosa* (L.); *Tubularia fistulosa*, Linnaeus
 NA: GRUBE (1861), HELLER (1867), VATOVA (1928), NIKOLIĆ (1959, 1960), GAMULIN – BRIDA *et al.* (1968), SENEŠ (1988a, 1988b), MCKINNEY & JAKLIN (2000)
 CA: HELLER (1867), BRUSINA (1907)
 SA: HELLER (1867), KARAMAN (1970), SENEŠ (1988a, 1990)
52. *Cellaria salicornioides* Lamouroux, 1816
Cellaria johnsoni, Busk; *Cellularia salicornioides*, Lamouroux; *Salicornaria gracilis* (Heller, 1867); *Salicornaria Johnstoni*, Busk; *Salicornia fistulosa* J. V. Carus
 A: HELLER (1867), HINCKS (1886)
 NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (1991), MCKINNEY & JAKLIN (2000)
 CA: BRUSINA (1907), FRIEDL (1918)
53. *Cellaria sinuosa* (Hassall, 1840)
Salicornaria sinuosa, Hassall
 NA: LORENZ (1863)
- CELLEPORIDAE Johnston, 1838
Buffonellaria Canu & Bassler, 1927
54. *Buffonellaria divergens* (Smitt, 1873)
 CA: ZAVODNIK *et al.* (2000)
- Buskea* Heller, 1867
55. *Buskea nitida* (Heller, 1867)
Siniopelta nitida (Heller, 1867)
 A: FRIEDL (1918)
 CA: HELLER (1867), FRIEDL (1918)
- Cellepora* Linnaeus, 1767
56. *Cellepora pumicosa* (Pallas, 1766)
Cellepora verrucosa, Linnaeus; *Cellopora pumicosa* Hincks
 A: HELLER (1867)
 NA: FRIEDL (1918), ZAVODNIK & ZAVODNIK (1982), SENEŠ (1988a, 1988b, 1989), ZAVODNIK & KOVAČIĆ (2000)
 CA: ZAVODNIK *et al.* (2000)
 SA: ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)
- Celleporaria* Lamouroux, 1821
57. *Celleporaria sardonica* (Waters, 1879)
Cellepora sardonica Water, 1879; »*Dentiporella*« *sardonica* (Waters, 1879)
 A: FRIEDL (1918)
 CA: ZAVODNIK *et al.* (2000)

Celleporina Gray, 1848

- 58.
- Celleporina caminata*
- (Waters, 1879)

CA: ZAVODNIK *et al.* (2000)

- 59.
- Celleporina canariensis*
- Aristegui, 1989

NA: MCKINNEY & JAKLIN (2000)

CA: ZAVODNIK *et al.* (2000)

- 60.
- Celleporina hassallii*
- (Johnston, 1847)

NA: FRIEDL (1918), VATOVA (1928)

CA: ZAVODNIK *et al.* (2000)

- 61.
- Celleporina lucida*
- (Hincks, 1880)

CA: ZAVODNIK *et al.* (2000)*Turbicellepora* Ryland, 1963

- 62.
- Turbicellepora avicularis*
- (Hincks, 1860)

Cellepora avicularis Hincks 1880; *Cellepora avicularis* Hincks 1880 var. *armatiformis*

A: FRIEDL (1918)

NA: FRIEDL (1918), MCKINNEY (1997)

SA: FRIEDL (1918)

- 63.
- Turbicellepora coronopus*
- (Wood, 1844)

Cellepora coronopus Wood, 1884

NA: LORENZ (1863)

- 64.
- Turbicellepora tubigera*
- (Busk, 1859)

Cellepora tubigera (Busk, 1859)

NA: FRIEDL (1918)

CHLIDONIIDAE Busk, 1884

Chlidonia Lamouroux, 1824

- 65.
- Chlidonia pyriformis*
- (Bertoloni, 1810)

Chlidonia cordieri Audouin, 1828

A: HINCKS (1886), FRIEDL (1918)

CA: ZAVODNIK *et al.* (2000)

CHORIZOPORIDAE Vigneaux, 1949

Chorizopora Hincks, 1879

- 66.
- Chorizopora brongniartii*
- (Audouin, 1826)

Cellepora brongniartii, Audouin; *Lepralia assimilis*, Johnston; *Lepralia brongniartii*, Busk; *Lepralia tenuis*, Hassall; *Schizoporella brongniartii*, Savigny & Audouin

A: KOLOSVÁRY (1943)

NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY (1992, 2000), MCKINNEY & JAKLIN (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: HELLER (1867), ŠPAN *et al.* (1989)

CRIBRILINIDAE Hincks, 1879

Cribrilina Gray, 1848

67. *Collarina balzaci* (Audouin, 1826)

Cribrilina cribrosa Heller, 1867 as *Lepralia cribrosa*?

NA: HELLER (1867)

CA: FRIEDL (1918)

68. *Cribrilina punctata* (Hassall, 1841)

A: HINCKS (1886)

Figularia Jullien, 1886

69. *Figularia figularis* (Johnston, 1847)

Figulina figularis, Johnston; *Lepralia figularis* Johnston 1847

NA: FRIEDL (1918), VATOVA (1928)

CA: HELLER (1867), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: HELLER (1867)

Puellina Jullien, 1886

70. *Puellina gattyae* (Landsborough, 1852)

Cribrilina gattyae (Busk), *Lepralia steindachneri* Heller, 1867

NA: HELLER (1867), VATOVA (1928)

CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)

71. *Puellina hincksi* (Friedl, 1917)

Puellina radiata (Moll, 1803) var. *hincksi* Friedl, 1917

NA: FRIEDL (1918), VATOVA (1928)

72. *Puellina radiata* (Moll, 1803)

Cribrilina radiata, Smitt

NA: FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), ZAVODNIK & KOVAČIĆ (2000)

CA: BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

CRYPTOSULIDAE Vigneaux, 1949

Cryptosula Canu & Bassler, 1925

73. *Cryptosula pallasiana* (Moll, 1803)

Eschara pallasiana, Moll; *Eschara pallasii* Heller, 1867; *Hippoporina pallasiana*, (Moll); *Lepralia pallasiana*, Busk; *Lepralia pediosstoma*, Johnston

A: FRIEDL (1918), KOLOSVÁRY (1943)

NA: HELLER (1867), ZAVODNIK & IGIĆ (1968a), IGIĆ (1975), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867)

SA: HELLER (1867)

ELECTRIDAE Stach, 1937

Electra Lamouroux, 181674. *Electra crustulenta* (Pallas, 1766)»*Membranipora*« (*Membranipora operculata* Hincks, 1886

A: HINCKS (1886), FRIEDL (1918)

75. *Electra monostachys* (Busk, 1854)

A: FRIEDL (1918)

76. *Electra pilosa* (Linnaeus, 1767)*Eschara pilosa*, Pallas; *Fuflustra pilosa*, Linnaeus; *Membranipora pilosa*, Johnston

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), IGIĆ (1975), SENEŠ (1988a)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

SA: HELLER (1867), KARAMAN & GAMULIN-BRIDA (1970), SENEŠ (1988a, 1990)

77. *Electra posidoniae* Gautier, 1957*Electra pilosa* (Linnaeus, 1766) var. *trispinosa* Hincks 1880

A: FRIEDL (1918)

NA: ZAVODNIK & ZAVODNIK (1982)

SA: ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)*Pyripora* d'Orbigny, 185278. *Pyripora catenularia* (Fleming, 1828)*Electra catenularia* (Jameson, 1811) as *Hippothoa catenularia?*, *Tubipora catenularia*, Jameson

CA: HELLER (1867), FRIEDL (1918)

EPISTOMIIDAE Gregory, 1893

Synnotum Pieper, 188179. *Synnotum aegyptiacum* (Audouin, 1826)*Gemellaria avicularis*, Pieper; *Notamia avicularis*, Waters; *Synnotum aviculare* Pieper, 1882

A: HINCKS (1886)

NA: ZIMMERMANN (1905 – 1906), FRIEDL (1918), VATOVA (1928)

CA: BRUSINA (1907)

EUCRATEIDAE Johnston, 1847

Eucratea Lamouroux, 181280. *Eucratea loricata* (Linnaeus, 1758)

A: KOLOSVÁRY (1943)

FLUSTRIDAE Fleming, 1828

Chartella Gray, 184881. *Chartella tenella* (Hincks, 1887)

Flustra papyracea, Ellis et Solander; *Flustra securifrons* (Pallas, 1766) var. *tenella* Hincks, 1887; *Flustra tenella* (Hincks, 1887)

A: FRIEDL (1918)

NA: FRIEDL (1918), VATOVA (1928), MCKINNEY & JAKLIN (2000)

Flustra Linnaeus, 176182. *Flustra foliacea* (Linnaeus, 1758)

Eschara foliacea, Linnaeus

CA: HELLER (1867)

SA: HELLER (1867)

Gregarinidra Barroso, 194983. *Gregarinidra gregaria* (Heller, 1867)

Membranipora gregaria Heller, 1867; *Oochilina gregaria* (Heller, 1867)

CA: FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: HELLER (1867)

Securiflustra Silén, 194184. *Securiflustra securifrons* (Pallas, 1766)

Eschara securifrons, Pallas; *Flustra securifrons* (Pallas, 1766); *Flustra truncata*, Linnaeus

A: HINCKS (1886)

NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867)

SA: HELLER (1867)

INCERTAE SEDIS

Haplopoma Levinsen, 190985. *Haplopoma impressum* (Audouin, 1826)

Microporella impressum?

A: FRIEDL (1918)

NA: FRIEDL (1918), VATOVA (1928)

86. *Haplopoma sciaphilum* Silén & Harmelin, 1976

NA: SILÉN & HARMELIN (1976)

CA: ZAVODNIK *et al.* (2000)

HIPPOPORIDRIDAE Vigneaux, 1949

Hagiosynodos Bishop & Hayward, 1989

87. *Hagiosynodos kirchenpaueri* (Heller, 1867)

Hippopodinella kirchenpaueri (Heller, 1867); *Hippoporina kirchenpaueri*, Heller;
Lepralia kirchenpaueri Heller, 1867

A: KOLOSVÁRY (1943)

NA: VATOVA (1928)

CA: HELLER (1867), FRIEDL (1918)

HIPPOTHOIDAE Busk, 1859

Hippothoa Lamouroux, 1821

88. *Celleporella hyalina* (Linnaeus, 1767)

Lepralia hyalina, Linnaeus; *Cellepora haylina*, Linnaeus

A: FRIEDL (1918)

NA: HELLER (1867)

89. *Hippothoa divaricata* Lamouroux, 1821

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

90. *Hippothoa flagellum* Manzoni, 1870

Hippothoa distans, Mac Gillivray

CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)

MARGARETTIDAE Harmer, 1957

Margaretta Gray, 1848

91. *Margaretta cereoides* (Ellis & Solander, 1786)

Cellaria cereoides, Solander et Ellis; *Tubicellaria cereoides?*, *Tubicellaria opuntioides* (Pallas) var. *cereoides* Ellis et Solander, 1786

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: SENEŠ (1988a), ŠPAN *et al.* (1989)

MEMBRANIPORIDAE Busk, 1854

Membranipora de Blainville, 1830

92. *Membranipora membranacea* (Linnaeus, 1767)

Flustra membranacea, Linnaeus; *Flustra telacea*, Lamarck; *Membranipora flemingii*, Busk, *Membranicea membranacea?*

A: CONDORELLI (1898), FRIEDL (1918)

NA: FRIEDL (1918), SENEŠ (1988a)

CA: HELLER (1867), FRIEDL (1918)

SA: HELLER (1867), FRIEDL (1918), SENEŠ (1988a, 1990)

MICROPORELLIDAE Hincks, 1880

Fenestrulina Jullien, 1888

93. *Fenestrulina joannae* (Calvet, 1902)
Microporella joannae Calvet, 1902
SA: SENEŠ (1988a, 1990)
94. *Fenestrulina malusii* (Audouin, 1826)
Eschara malusii, Audouin; *Lepralia biforis*, Johnston; *Lepralia malusii*, Busk;
Microporella malusii, Audouin
A: KOLOSVÁRY (1943)
NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), SENEŠ (1988a), MCKINNEY (2000), MCKINNEY & JAKLIN (2000)
CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)
SA: HELLER (1867), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

Microporella Hincks, 1877

95. *Microporella appendiculata* (Heller, 1867)
Lepralia appendiculata Heller, 1867; »*Lepralia*« *appendiculata* Heller, 1867;
Microporella pseudomarsupiata (Aristegui, 1984)
A: FRIEDL (1918)
NA: HELLER (1867)
CA: FRIEDL (1918), ZAVODNIK *et al.* (2000)
96. *Microporella ciliata* (Pallas, 1766)
A: KOLOSVÁRY (1943)
NA: FRIEDL (1918), VATOVA (1928), MCKINNEY, F. K. (1992, 2000), MCKINNEY, M. J. (1997), MCKINNEY & JAKLIN (2000)
CA: ZAVODNIK *et al.* (2000)
97. *Microporella umbracula* (Audouin, 1826)
CA: ZAVODNIK *et al.* (2000)

MICROPORIDAE Gray, 1848

Calpensia Jullien, 1888

98. *Calpensia nobilis* (Esper, 1796)
Calpensia impressa (Moll, 1803) as *Flustra impressa*; *Micropora impressa* (Moll)
A: KOLOSVÁRY (1943)
NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (1993)
CA: BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)
SA: FRIEDL (1918)

Micropora Gray, 1848

99. *Micropora coriacea* (Johnston, 1847)
CA: ZAVODNIK *et al.* (2000)

Mollia Lamouroux, 1821

100. *Mollia circumcincta* (Heller, 1867)

Caleschara patellaria Moll var. *circumcincta* Heller, 1867; *Membranipora circumcincta* Heller, 1867

NA: HELLER (1867) – NA, VATOVA (1928)

CA: ZAVODNIK *et al.* (2000)

101. *Mollia patellaria* (Moll, 1816)

Membranipora patellaria (Moll)

NA: NIKOLIĆ (1959)

CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)

Rosseliana Jullien, 1888

102. *Rosseliana rosselii* (Audouin, 1826)

Caleschara rosselii (Audouin, 1828); *Flustra rosselii*, Audouin; *Membranipora rosselii*, Busk

NA: HELLER (1867), FRIEDL (1918)

CA: HELLER (1867), FRIEDL (1918), ZAVODNIK *et al.* (2000)

THALAMOPORELLIDAE Levinsen, 1909

Thalamoporella Hincks, 1887

103. *Thalamoporella rozieri* (Audouin, 1826)

»*Membranipora*« *bifoveolata* Heller, 1867

NA: HELLER (1867)

CA: HELLER (1867)

SA: HELLER (1867)

MYRIAPORIDAE Gray, 1841

Myriapora Donati, 1750

104. *Myriapora truncata* (Pallas, 1766)

Millepora truncata Pallas, 1766; *Myrizoon truncatum*, Ehrenberg; *Myrizooum truncatum*, Ehrenberg

A: DONATI (1750), KOLOSVÁRY (1943)

NA: LORENZ (1863), HELLER (1867), ZIMMERMANN (1905–1906), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1960), GAMULIN-BRIDA *et al.* (1968), ZAVODNIK & ZAVODNIK (1982, 1984), SENEŠ (1988a, 1988b, 1989), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), GAMULIN-BRIDA (1965), ZAVODNIK & ZAVODNIK (1982, 1984), ZAVODNIK *et al.* (2000)

SA: HELLER (1867), GAMULIN-BRIDA (1965), KARAMAN & GAMULIN-BRIDA (1970), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

PHIDOLOPORIDAE Gabb & Horn, 1862

Reteporella Busk, 1884

105. *Reteporella couchii* (Hincks, 1878)
Sertella couchii (Hincks, 1878)
A: FRIEDL (1918)
NA: FRIEDL (1918), VATOVA (1928)
106. *Reteporella septentrionalis* Harmer, 1933
Millepora cellulosa, Cavolini; *Retepora cellulosa* Smitt, 1867; *Sertella septentrionalis* (Harmer, 1933)
A: CONDORELLI (1898), FRIEDL (1918)
NA: GRUBE (1861), LORENZ (1863), HELLER (1867), ZIMMERMANN (1905–1906), FRIEDL (1918), VATOVA (1928, 1940), NIKOLIĆ (1960), MCKINNEY, F.K. (1992), MCKINNEY, M.J. (1997), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)
CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), VATOVA (1928, 1940), ZAVODNIK *et al.* (2000)
SA: HELLER (1867), FRIEDL (1918)
- Rhynchozoon* Hincks, 1877
107. *Rhynchozoon bispinosum* (Johnston, 1847)
NA: FRIEDL (1918), VATOVA (1928)
- Schizotheca* Hincks, 1877
108. *Schizotheca fissa* (Busk, 1856)
A: FRIEDL (1918)
NA: MCKINNEY (2000), MCKINNEY & JAKLIN (2000)
CA: BRUSINA (1907)
109. *Schizotheca serratimargo* Hincks, 1886
Schizoporella serratimargo Hincks, 1886
A: HINCKS (1886), NEVIANI (1904), FRIEDL (1918), KOLOSVÁRY (1943)
NA: MCKINNEY & JAKLIN (1995), MCKINNEY (1997), ZAVODNIK & KOVAČIĆ (2000)
CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)
- ROMANCHEINIDAE Jullien, 1888
- Escharella* Gray, 1848
110. *Escharella immersa* (Fleming, 1828)
Lepralia immersa, Johnston; *Lepralia peachii*, Johnston
NA: HELLER (1867), FRIEDL (1918)
111. *Escharella variolosa* (Johnston, 1838)
Lepralia variolosa Johnston, 1838
NA: HELLER (1867), FRIEDL (1918)
- Escharoides* Milne Edwards, 1836

112. *Escharoides coccinea* (Abildgaard, 1806)

Cellepora coccinea, Abildgaard; *Eschara ciliata*, Pallas; *Lepralia ciliata*, Johnston;
Lepralia coccinea, Johnston; *Mucronella coccinea* (Abildgaard)

NA: FRIEDL (1918), VATOVA (1928)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SAVIGNYELLIDAE Levinsen, 1909

Savignyella Levinsen, 1909113. *Savignyella lafontii* (Audouin, 1826)

Alsydium lafontii, Busk; *Eucratea lafontii*, Audouin

A: HELLER (1867)

NA: FRIEDL (1918)

CA: ZAVODNIK *et al.* (2000)

SCHIZOPORELLIDAE Jullien, 1903

Arthropoma Levinsen, 1909114. *Arthropoma cecilii* (Audouin, 1826)

CA: FRIEDL (1918)

Escharina Milne Edwards, 1836115. *Escharina johnstoni* (Quelch, 1884)

Escharina simplex d'Orbigny, 1839

A: FRIEDL (1918)

NA: FRIEDL (1918), VATOVA (1928)

116. *Escharina vulgaris* (Moll, 1803)

Lepralia botterii Heller, 1867; *Schizoporella vulgaris*, Moll

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), MCKINNEY (1992)

CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)

Phaeostachys Hayward, 1979117. *Phaeostachys spinifera* (Johnston, 1847)

Escharina spinifera (Johnston, 1847)

NA: FRIEDL (1918)

Schizobrachiella Canu & Bassler, 1920118. *Schizobrachiella sanguinea* (Norman, 1868)

Schizoporella sanguinea Hincks, 1880

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), VATOVA (1928), ZAVODNIK (1963), GAMULIN-BRIDA *et al.* (1968), ZAVODNIK & IGIĆ (1968a,b), IGIĆ (1975), SENEŠ (1988a, 1989), ZAVODNIK & KOVAČIĆ (2000)

CA: ZAVODNIK *et al.* (2000)

SA: KARAMAN & GAMULIN-BRIDA (1970), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

Schizoporella Hincks, 1877

119. *Schizoporella dunkeri* (Reuss, 1848)

Schizoporella longirostris (Hincks, 1886); *Schizoporella unicornis*, Johnston form *longirostris*?

A: HINCKS (1886), FRIEDL (1918)

NA: FRIEDL (1918), VATOVA (1928), MCKINNEY, F.K. (1992, 2000), MCKINNEY, M.J. (1997), MCKINNEY & JAKLIN (2000)

CA: BRUSINA (1907), ZAVODNIK *et al.* (2000)

120. *Schizoporella errata* (Waters, 1878)

Schizopodrella violacea Canu & Bassler, 1930

NA: ZAVODNIK (1963), IGIĆ (1975), MCKINNEY (1991), ZAVODNIK & KOVAČIĆ (2000)

121. *Schizoporella magnifica* Hincks, 1886

Schizoporella ansata, Johnston

A: HINCKS (1886), FRIEDL (1918), KOLOSVÁRY (1943)

NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (2000), MCKINNEY & JAKLIN (2000)

CA: FRIEDL (1918), ZAVODNIK *et al.* (2000)

122. *Schizoporella tetragona* (Reuss, 1848)

Lepralia tetragona, Reuss

NA: LORENZ (1863)

123. *Schizoporella unicornis* (Johnston, in Wood, 1844)

Cellepora spongites, Linnaeus; *Lepralia aculeata*, Busk; *Lepralia ansata*, Johnson; *Lepralia serialis*, Busk; *Lepralia spinifera*, Johnston; *Lepralia spongites*, Lamouroux; *Lepralia unicornis*, Johnston; *Schizobrachiella unicornis*?

A: HINCKS (1886)

NA: GRUBE (1861), HELLER (1867), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), IGIĆ (1975)

CA: HELLER (1867), ZAVODNIK *et al.* (2000)

SA: HELLER (1867)

SCRUPARIIDAE Gray, 1848

Scruparia Oken, 1815

124. *Scruparia chelata* (Linnaeus, 1758)

Eucratea chelata, Linnaeus

A: HINCKS (1886)

NA: FRIEDL (1918), VATOVA (1928)

SETOSELLIDAE Levinsen, 1909

Setosella Hincks, 1877125. *Setosella vulnerata* (Busk, 1860)

A: FRIEDL (1918)

NA: FRIEDL (1918)

SMITTINIDAE Levinsen, 1909

Parasmittina Osburn, 1952126. *Parasmittina trispinosa* (Johnston, 1838)*Smittia trispinosa?*, *Smittina trispinosa* (Johnston, 1838); *Smittina trispinosa*, Johnston var. *spathulata* Hincks

NA: VATOVA (1928)

CA: BRUSINA (1907), FRIEDL (1918)

Prenantia Gautier, 1962127. *Prenantia inerma* (Calvet, 1906)*Smittina linearis* van Hasselt, 1841 (*Smittia*) var. *inermis* Hincks, 1886

A: FRIEDL (1918)

Smittina Norman, 1903128. *Smittina cervicornis* (Pallas, 1766)*Cellepora cervicornis*, Fleming; *Eschara cervicornis*, Lamarck; *Millepora cervicornis*, Ellis et Solander; *Porella cervicornis*, Waters; *Smittia cervicornis* (Pallas)

A: KOLOSVÁRY (1943)

NA: LORENZ (1863), HELLER (1867), ZIMMERMANN (1905–1906), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1960), GAMULIN–BRIDA *et al.* (1968), SENEŠ (1988a, 1988b, 1989), MCKINNEY (1991), ZAVODNIK & KOVAČIĆ (2000)CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK & ZAVODNIK (1984), ZAVODNIK *et al.* (2000)SA: HELLER (1867), FRIEDL (1918), GAMULIN–BRIDA (1965), KARAMAN & GAMULIN–BRIDA (1970), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)129. *Smittina tubulifera* (Heller, 1867)*Eschara tubulifera* Heller, 1867; *Smittina cervicornis* (Pallas, 1766) var. *tubulifera* (Heller, 1867)

CA: HELLER (1867), FRIEDL (1918)

SA: HELLER (1867)

Smittoidea Osburn, 1952130. *Smittoidea reticulata* (MacGillivray, 1842)*Lepralia reticulata*, M. Gillivray; *Smittia reticulata* (Mac Gillivray), *Smittina reticulata* (M. Gillivray, 1842) (= *Smittia*) var. *galeata* (Busk, 1853); *Smittina reticulata* (M. Gillivray, 1842)

NA: HELLER (1867), FRIEDL (1918)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

SA: HELLER (1867)

UMBONULIDAE Canu, 1904

Umbonula Hincks, 1880

131. *Umbonula ovicellata* Hastings, 1944

Lepralia verrucosa, Thompson; *Umbonula verrucosa* (Esper)

CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)

WATERSIPORIDAE Vigneaux, 1949

Watersipora Neviani, 1895

132. *Watersipora complanata* (Norman, 1864)

Micropora complanata, Norman

NA: FRIEDL (1918), VATOVA (1928)

133. *Watersipora subovoidea* (d'Orbigny, 1852)

Lepralia cucullata, Busk; *Watersipora atrofusca* (Busk, 1856)

A: FRIEDL (1918)

NA: HELLER (1867), VATOVA (1928), MCKINNEY (1992)

CA: FRIEDL (1918)

Order Ctenostomatida

ALCYONIDIIDAE Johnston, 1838

Alcyonidium Lamouroux, 1813

134. *Alcyonidium gelatinosum* (Linnaeus, 1761)

A: FRIEDL (1918), KOLOSVÁRY (1943)

CA: BRUSINA (1907)

135. *Alcyonidium mytili* Dalyell, 1848

NA: FRIEDL (1918), VATOVA (1928)

BUSKIIDAE Hincks, 1880

Buskia Alder, 1856

136. *Buskia socialis* Hincks, 1887

A: FRIEDL (1918)

MIMOSELLIDAE Hincks, 1877

Mimosella Hincks, 1851

137. *Mimosella gracilis* Hincks, 1851

Cuscutaria cruciata, Meneghini; *Cuscutaria oppositiramea*, Meneghini

NA: HELLER (1867), FRIEDL (1918), ZAVODNIK & KOVAČIĆ (2000)

CA: BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: ŠPAN *et al.* (1989)

138. *Mimosella verticillata* (Heller, 1867)

Cuscutaria verticillata, Meneghini; *Hippuraria verticillata* (Heller); *Valkeria verticillata*?

NA: HELLER (1867)

CA: BRUSINA (1907)

NOLELLIDAE Harmer, 1915

Nolella Gosse, 1855

139. *Nolella stipata* (Gosse, 1855)

Cylindroecium giganteum (Busk, 1856)

A: FRIEDL (1918)

NA: MCKINNEY & JAKLIN (2000)

CA: ZAVODNIK *et al.* (2000)

PHERUSELLIDAE Osburn & Soule, 1953

Pherusella Soule, 1951

140. *Pherusella tubulosa* (Ellis & Solander, 1786)

Flustra hispida, Olivi; *Pherusa tubulosa*, Ellis et Solander

NA: VATOVA (1928)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

SA: FRIEDL (1918), ŠPAN *et al.* (1989)

TRITICELLIDAE Sars, 1873

Triticella Dalyell, 1848

141. *Triticella flava* Dalyell, 1848

Triticella koreunii, G. O. Sars, 1873 as *Calliaxis adriatica*, Heller

A: FREIDL (1918)

VESICULARIIDAE Hincks, 1880

Amathia Lamouroux, 1812

142. *Amathia lendigera* (Linnaeus, 1758)

Serialaria lendigera, Lamarck; *Sertularia lendigera* Linnaeus, 1761

NA: LORENZ (1863), HELLER (1867), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), GAMULIN-BRIDA *et al.* (1968), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

143. *Amathia pruvoti* Calvet, 1911

NA: MCKINNEY & JAKLIN (2000)

144. *Amathia semiconvoluta* (Lamouroux, 1824)
Serialaria semiconvoluta, Lamarck
 NA: HELLER (1867), FRIEDL (1918), NIKOLIĆ (1959), GAMULIN-BRIDA *et al.* (1968), ZAVODNIK & KOVAČIĆ (2000)
 CA: BRUSINA (1907)
145. *Amathia vidovici* (Heller, 1867)
Bowerbankia pustulosa (Ellis & Solander, 1786) var. *vidovichi* Heller, 1867; *Valkeria vidovici* Heller, 1867
 NA: HELLER (1867), FRIEDL (1918), VATOVA (1928)
 CA: HELLER (1867), FRIEDL (1918)
- Bowerbankia* Farre, 1837
146. *Bowerbankia gracilis* Leidy, 1855
Bowerbankia pustulosa (Ellis & Solander, 1786) var. *caudata*
 A: FRIEDL (1918)
 NA: MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)
147. *Bowerbankia imbricata* (Adams, 1798)
Bowerbankia pustulosa (Ellis & Solander, 1786) var. *imbricata*
 A: FRIEDL (1918)
148. *Bowerbankia pustulosa* (Ellis & Solander, 1786)
 A: FRIEDL (1918)
 NA: NIKOLIĆ (1959)
- Vesicularia* Thompson, 1830
149. *Vesicularia spinosa* (Linnaeus, 1967)
 A: FRIEDL (1918)
- Zoobotryon* Ehrenberg, 1829
150. *Zoobotryon verticillatum* (delle Chiaje, 1822)
Amathia coutinhii, F. M.; *Zoobotryon pellucidum* Ehrenberg, 1829
 A: CONDORELLI (1898)
 NA: ZIMMERMANN (1905–1906), FRIEDL (1918), VATOVA (1928), ZAVODNIK & KOVAČIĆ (2000)
- WALKERIIDAE Hincks, 1880, emend Bassler, 1953
- Walkeria* Fleming, 1823
151. *Walkeria tuberosa* Heller, 1867
Valkeria tuberosa (Heller, 1867); *Valkeria uva* (Linnaeus, 1758) var. *tuberosa* (Heller, 1867)
 NA: FRIEDL (1918), MCKINNEY & JAKLIN (2000)
 CA: HELLER (1867), BRUSINA (1907), ZAVODNIK *et al.* (2000)

Class Stenolaemata

Order Cyclostomatida

ANNETOCYMIDAE Hayward & Ryland, 1985

Annectocyma Hayward & Ryland, 1985

152. *Annectocyma indistincta* Canu & Bassler, 1929

CA: ZAVODNIK *et al.* (2000)

153. *Annectocyma major* (Johnston, 1847)

Entalophora proboscidea (Milne Edwards, 1838); *Pustulopora proboscidea*, Milne Edwards

NA: FRIEDL (1918), VATOVA (1928)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

154. *Annectocyma tubulosa* (Busk, 1859)

Filisparsa tubulosa, Waters

CA: BRUSINA (1907)

Entalophoroecia Harmelin, 1976

155. *Entalophoroecia deflexa* (Couch, 1842)

Alecto granulata, Johnston; *Criserpia johnstoni?*, *Entalophora deflexa* (Smitt, 1873); *Pustulopora deflexa*, Johnston; *Stomatopora granulata*, Milne Edward; *Stomatopora johnstoni* (Heller, 1867); *Tubulipora deflexa* Couch, 1844

A: FRIEDL (1918), KOLOSVÁRY (1943)

NA: FRIEDL (1918), VATOVA (1928)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

156. *Entalophoroecia robusta* Harmelin, 1976

CA: ZAVODNIK *et al.* (2000)

CRISIIDAE Johnston, 1838

Crisia Lamouroux, 1913

157. *Crisia denticulata* (Lamarck, 1816)

Cellaria denticulata, Lamarck; *Crisia denticulata*, Milne Edwards

NA: FRIEDL (1918)

CA: HELLER (1867), FRIEDL (1918)

158. *Crisia eburnea* (Linnaeus, 1758)

Cellularia eburnea, Pallas; *Crisia eburnea*, Lamouroux; *Sertularia eburnea*, Linnaeus

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), GAMULIN-BRIDA *et al.* (1968), SENEŠ (1988a, 1989)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

SA: HELLER (1867), SENEŠ (1988a)

159. *Crisia elongata* (Milne Edwards, 1838)

Crisia attenuata Heller, 1867

A: FRIEDL (1918)

- NA: HELLER (1867)
 CA: BRUSINA (1907), FRIEDL (1918)
160. *Crisia fistulosa* Heller, 1867
 NA: FRIEDL (1918), VATOVA (1928)
 CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)
 SA: HELLER (1867)
161. *Crisia ramosa* Harmer, 1891
 NA: MCKINNEY & JAKLIN (2000)
 CA: FRIEDL (1918)
162. *Crisia recurva* Heller, 1867
 NA: HELLER (1867), FRIEDL (1918), VATOVA (1928), MCKINNEY & JAKLIN (2000)
 CA: FRIEDL (1918)
- Crisidia* Milne Edwards, 1838
163. *Crisidia cornuta* (Linnaeus, 1758)
Crisidia cornuta Milne Edwards, 1838
 NA: FRIEDL (1918)
 CA: FRIEDL (1918)
- Filicrisia* d'Orbigny, 1853
164. *Filicrisia geniculata* (Milne Edwards, 1838)
Crisidia cornuta Milne Edwards var. *geniculata* Milne Edwards
 A: FRIEDL (1918)
 NA: VATOVA (1928)
- DIASTOPORIDAE Gregory, 1899
- Cardioecia* Canu & Bassler, 1922
165. *Cardioecia watersi* (O'Donoghue & de Waterville, 1939)
 CA: ZAVODNIK *et al.* (2000)
- Diplosolen* Canu, 1918
166. *Diplosolen obelia* (Johnston, 1838)
Diastopora obelia, Johnston
 A: KOLOSVÁRY (1943)
 NA: FRIEDL (1918), VATOVA (1928), MCKINNEY (1992, 2000), MCKINNEY & JAKLIN (2000)
 CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)
 SA: HELLER (1867), FRIEDL (1918)
- Eurystrotos* Hayward & Ryland, 1985
167. *Eurystrotos compacta* (Norman, 1866)
 CA: ZAVODNIK *et al.* (2000)

168. *Eurystrotos occulta* (Harmelin, 1976)

NA: MCKINNEY (1992)

Liripora MacGillivray, 1887

169. *Liripora violacea* (Harmelin, 1976)

CA: ZAVODNIK *et al.* (2000)

Plagioecia Canu, 1918

170. *Plagioecia dorsalis* (Waters, 1879)

Reticulipora dorsalis Waters

CA: BRUSINA (1907)

171. *Plagioecia patina* (Lamarck, 1816)

Diastopora latomarginata D'Orbigny, 1827; *Diastopora patina* Johnston, 1847; *Diastopora patina* Lamarck, 1816 var. *annularis* (Heller, 1867); *Discocavea verrucaria*, d'Orbigny; *Discosparsa annularis*, Heller; *Discosparsa complanata* Heller, 1867; *Discosparsa patina?*, *Millepora verrucaria*, Ellis et Sollander; *Tubulipora complanata*, Meneghini; *Tubulipora patina* Lamarck, 1816

A: CONDORELLI (1898)

NA: GRUBE (1861), HELLER (1867), FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), MCKINNEY, F.K. (1992, 2000), MCKINNEY, M.J. (1997), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), FRIEDL (1918)

172. *Plagioecia sarniensis* (Norman, 1864)

Diastopora sarniensis Norman, 1864

A: FRIEDL (1918)

CA: ZAVODNIK *et al.* (2000)

HORNERIDAE Smitt, 1867

Hornera Lamouroux, 1821

173. *Hornera frondiculata* Lamouroux, 1821

Hornera serrata, Meneghini; *Hornera tubulosa*, Meneghini; *Millepora lichenoides*, Pallas; *Millepora tubipora*, Ellis et Solander; *Retepora frondiculata*, Lamarck

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), SENEŠ (1988a, 1989), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

SA: HELLER (1867), KARAMAN & GAMULIN-BRIDA (1970), SENEŠ (1988a), ŠPAN *et al.* (1989)

LICHENOPORIDAE Smitt, 1867

Disporella Gray, 1848

174. *Disporella hispida* (Fleming, 1828)

Lichenopora hispida?

NA: NIKOLIĆ (1959), MCKINNEY (1992, 2000), MCKINNEY & JAKLIN (2000)

CA: BRUSINA (1907)

Patinella Gray, 1848

175. *Lichenopora radiata* (Audouin, 1826)

Discoparsa patina (Milne Edwards)

A: KOLOSVÁRY (1943)

NA: VATOVA (1928), ZAVODNIK & IGIĆ (1968a), IGIĆ (1975), MCKINNEY (1992), ZAVODNIK & ZAVODNIK (1982), SENEŠ (1988a), ZAVODNIK & KOVAČIĆ (2000), MCKINNEY & JAKLIN (2000)

CA: BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

176. *Lichenopora verrucaria* (O. Fabricius, 1780)

Lichenopora verrucaria (Fabricius, 1780) as *Discoparsa hispida?*, *Tubulipora hispida*, Johnston

A: FRIEDL (1918)

NA: HELLER (1867), VATOVA (1928)

FRONDIPORIDAE Busk, 1875

Fron dipora Link, 1807

177. *Fron dipora verrucosa* (Lamouroux, 1821)

A: KOLOSVÁRY (1943)

NA: FRIEDL (1918), VATOVA (1928), GAMULIN-BRIDA *et al.* (1968)

CA: BRUSINA (1907), FRIEDL (1918), GAMULIN-BRIDA *et al.* (1968)

SA: KARAMAN & GAMULIN-BRIDA (1979), ŠPAN *et al.* (1989), SENEŠ (1990)

TERVIIDAE Canu & Bassler, 1920

Tervia Jullien, 1882

178. *Tervia irregularis* (Meneghini, 1844)

Filisparsa irregularis Meneghini, 1844; *Idmonea irregularis*, Meneghini

NA: FRIEDL (1918)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

TUBULIPORIDAE Johnston, 1838

Idmidronea Canu & Bassler, 1920

179. *Idmidronea atlantica* (Forbes, in Johnston, 1847)

Exidmonea atlantica?, *Idmonea atlantica* Forbes; *Idmonea gracilis* Meneghini, 1844 var. *triforis* (Heller, 1867), *Idmonea triforis* Heller, 1867

NA: FRIEDL (1918), MCKINNEY (1991), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

Platonea Canu & Bassler, 1920

180. *Platonea stoechas* Harmelin, 1976

Idmonea gracilis Meneghini, 1844; *Idmonea meneghini* Heller, 1867

NA: MCKINNEY (1992)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918)

Tubulipora Lamarck, 1816

181. *Tubulipora aperta* (Harmer, 1898)

NA: MCKINNEY (1992)

182. *Tubulipora liliacea* (Pallas, 1766)

Idmonea frondosa Meneghini, 1844; *Idmonea serpens* (Linnaeus, 1768); *Idmonea serpula* Heller, 1867; *Idmonea transversa*, Milne Edwards; *Tubulipora serpens* (L.); *Tubulipora transversa*, Lamarck

NA: FRIEDL (1918), VATOVA (1928), NIKOLIĆ (1959), MCKINNEY (1991, 1992, 2000), MCKINNEY & JAKLIN (2000)

CA: HELLER (1867), BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: ŠPAN *et al.* (1989)

183. *Tubulipora phalangea* Couch, 1844

Tubulipora phalangea, Johnston; *Tubulipora verrucaria*, Milne Edwards

NA: HELLER (1867)

CA: HELLER (1867)

184. *Tubulipora plumosa* Thomson, in Harmer, 1898

Tubulipora flabellaris Fabricius, 1780; *Tubulipora verrucaria*, Milne Edwards

A: KOLOSVÁRY (1943)

NA: VATOVA (1928), MCKINNEY, F.K. (1991, 1992, 2000), MCKINNEY, M.J. (1997), MCKINNEY & JAKLIN (2000), ZAVODNIK & KOVAČIĆ (2000)

CA: BRUSINA (1907), FRIEDL (1918), ZAVODNIK *et al.* (2000)

SA: ŠPAN *et al.* (1989), SENEŠ (1990)

UNIDENTIFIED SPECIES / UPITNE VRSTE

1. *Adeonella lichenoides* (Lamarck, 1816)

Eschara lichenoides, Lamarck

A: FRIEDL (1918)

CA: HELLER (1867)

2. *Aetea truncata* Landsborough, 1852 forma *pygmaea* Hincks 1886

A: FRIEDL (1918)

3. *Alecto Johnstoni* (Heller)

CA: BRUSINA (1907)

4. *Alecto parasita* Heller, 1867

CA: HELLER (1867)

5. *Amphiblestrum solidum* (Packard, 1863)
Callopora flemingii (Busk 1853) var. *trifolium* Wood 1844
A: FRIEDL (1918)
6. *Bowerbankia pustulosa* (Ellis & Solander, 1786) var. *biserialis* (Hincks, 1887)
A: FRIEDL (1918)
7. *Carbasea pusilla* (Hincks, 1887)
NA: FRIEDL (1918), VATOVA (1928)
8. *Cellaria avicularia*, Pallas
NA: GRUBE (1861)
9. *Cellepora corticalis* Heller, 1867
NA: HELLER (1967), FRIEDL (1918)
10. *Cellepora hincksii* Heller, 1867
CA: HELLER (1967)
11. *Chorizopora brongniartii* (Audouin, 1826) var. *punctata* Friedl, 1917
NA: FRIEDL (1918), VATOVA (1928)
12. *Cribrilina annulata* (O. Fabricius, 1780)
Lepralia annulata Johnston; *Cellepora annulata* Fabricius, 1780
CA: HELLER (1867)
SA: HELLER (1867)
13. *Cribrilina cribrosa* Heller, 1867 var. *perforata* Friedl, 1917
A: FRIEDL (1918)
NA: VATOVA (1928)
14. *Crisiella producta* (Smitt, 1865)
Crisia producta Smitt
A: KOLOSVÁRY (1943)
CA: BRUSINA (1907)
15. *Cyclopora costata* Mac Gillivray
CA: BRUSINA (1907)
16. *Dendrobeania murrayana* (Bean, in Johnston, 1847)
Sertularia spiralis?
A: FRIEDL (1918)
17. *Discopora verrucosa* Esper, 1794
NA: FRIEDL (1918), VATOVA (1928)
CA: FRIEDL (1918)
18. *Escharina vulgaris* (Moll, 1803) var. *botterii* Heller, 1867
CA: FRIEDL (1918)
19. *Escharina vulgaris* (Moll, 1803) var. *stossichi* Heller, 1867
CA: FRIEDL (1918)
20. *Escharoides alvarezii* (D'Orbigny, 1851)
CA: FRIEDL (1918)

21. *Idmonea tubulipora* Meneghini, 1844
A: HELLER (1867)
NA: HELLER (1867), FRIEDL (1918), VATOVA (1928)
CA: FRIEDL (1918)
22. *Lepralia alata* Busk
CA: HELLER (1867)
SA: HELLER (1867)
23. *Lepralia annulatipora* Manzoni, 1871
A: FRIEDL (1918)
24. *Lepralia cornuta* Heller, 1867
NA: HELLER (1867)
25. *Lepralia* (»*Lepralia*«) *foraminifera* Heller, 1867
A: FRIEDL (1918)
NA: HELLER (1867)
CA: FRIEDL (1918)
26. *Lepralia perugiana* Heller, 1867
NA: HELLER (1867)
27. *Lepralia stossici* Heller, 1867
NA: HELLER (1867)
28. *Lichenopora annularis* (Heller)
CA: BRUSINA (1907)
29. *Lichenopora cristata* Busk
CA: BRUSINA (1907)
30. *Lichenopora pustolosa* d'Orbigny
CA: BRUSINA (1907)
31. *Membranipora rostrata* Heller, 1867
NA: HELLER (1867)
32. *Microporella haeckeli*, Reuss
A: KOLOSVÁRY (1943)
33. *Oochilina tenurostris* (Hincks, 1880)
NA: FRIEDL (1918), VATOVA (1928)
34. *Polytrema corallinum*, Risso
CA: HELLER (1867)
SA: HELLER (1867)
35. *Reteporella beaniana* (King, 1846)
Retepora beaniana King, 1846; *Sertella beaniana*, King
NA: GAMULIN-BRIDA *et al.* (1968), ZAVODNIK & ZAVODNIK (1982, 1984), SENEŠ (1988a, 1988b, 1989)
CA: ZAVODNIK & ZAVODNIK (1982, 1984)
SA: KARAMAN & GAMULIN-BRIDA (1970), ŠPAN *et al.* (1989), SENEŠ (1988a, 1990)

36. *Schizoporella atrofusca*, Busk
A: HINCKS (1886)
37. *Siniopelta costata* (MacGillivray, 1868)
A: FRIEDL (1918)
38. *Stomatopora repens* (Wood)
CA: BRUSINA (1907)
39. *Tubulipora foraminulata* Lamarck
NA: LORENZ (1863)

Received May 18, 2001

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