

Ruiz, D., Ziemmeck, F. (2012). CDF Checklist of Galapagos Heterokonts: Brown algae and related groups - FCD Lista de especies de Heterokonta: Algas pardas y grupos relacionados de Galápagos. *In*: Bungartz, F., Herrera, H., Jaramillo, P., Tirado, N., Jiménez-Uzcátegui, G., Ruiz, D., Guézou, A. Ziemmeck, F. (eds.). Charles Darwin Foundation Galapagos Species Checklist - Lista de Especies de Galápagos de la Fundación Charles Darwin. Charles Darwin Foundation / Fundación Charles Darwin, Puerto Ayora, Galapagos: <http://checklists.datazone.darwinfoundation.org/algae/ochrophyta/> Last updated 21 May 2012.

CDF Checklist of Galapagos Heterokonts: Brown algae and related groups

Diego Ruiz, Frauke Ziemmeck

Contribs.: Stuart Banks, Margarita Brandt, Rodrigo Bustamante, Angel Chiriboga, Graham Edgar, José Miguel Fariña, Peter Glynn, Jack Grove, Alex Hearn, Cleveland Hickman, Paul Humann, Jerson Moreno, Fernando Pinillos, Fernando Rivera, Franz Smith, Marco Toscano, Mariana Vera, Luis Vinueza.

21 May 2012

This checklist is automatically generated using Version 3.0 of the online database CDF Galapagos Species Checklist.

The **Ochrophyta** are a phylum of phylogenetically related organisms with heterokont motile cells, meaning that they have two flagella of unequal length that are typically attached laterally. The largest and best known group in the Ochrophyta is the brown algae, aptly named because of the brown pigmentation caused by the presence of xanthophylls like fucoxanthine or flavoxanthine. The cell wall of the brown algae is poor in cellulose but rich in alginates, a polysaccharide of commercial importance.

Brown algae are also rich in laminarin and manitol, both storage sugars.

For marine species distribution data cited in the CDF Galapagos Checklists refer to the five main bioregions of the archipelago (Far Northern, Northern, Western, South Eastern and the Elithabeth Bay Bioregion). For the terrestrial species the more than 120 islands, islets and small rocks have been aggregated into Islands Groups, thus, for example, the island group "Santa Cruz" includes smaller islands like Santa Fé, Plaza Norte, Plaza Sur, Baltra, Daphne Mayor, Daphne Minor, and others.

Please be aware that the distribution data presented here is automatically generated from specimen records and does not always accurately reflect the known distribution for all species.

IUCN red-list assessments presented here may deviate from the global IUCN list for the following reasons:

- for well known species groups like vascular plants or vertebrates updates proposed to the IUCN are shown instead of the outdated, but currently accepted status;
- for poorly known species groups (e.g., lichenized fungi) a general assessment is currently not possible and the list presented here is a regional red-list list for Galapagos archipelago.

Names of taxa included in this checklist: 54 (46 Accepted , 3 Unidentified Taxon , 1 Doubtful , 3 Preliminary Identification , 1 Problematic).

Origin of the taxa included: 18 Endemic, 3 Indigenous.

1. *Bifurcaria galapagensis* (Piccone Grunow) Womersley
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Fucodium galapagensis* Piccone Grunow, *Blossevillea galapagensis* (Piccone Grunow) W.R. Taylor, *Pelvetia galapagensis* (Piccone Grunow) De Toni, fide Guiry Guiry (2010)
Origin: Native, Endemic.
IUCN Red List: Critically Endangered.
Galapagos Distribution: Floreana, Santa Cruz.
References: Farlow, W.G. et al. (1902), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Piccone, A. et al. (1886), Womersley, H.B.S. et al. (1964).
2. *Carpomitra sp. 1*
Taxon status: Taxon not identified to species, subspecies, form or variety.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Isabela, Pinzón, Santa Cruz.
3. *Chnoospora implexa* J.Agardh, 1848
Taxon status: Accepted name; taxon occurs in Galapagos.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Dawson, E.Y. et al. (1963), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).
4. *Colpomenia bullosa* (De A.Saunders) Yamada, 1948
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Colpomenia sinuosa* f. *deformans* Setchell N.L. Gardner, fide Guiry Guiry (2010)
IUCN Red List: Not Evaluated.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).
5. *Colpomenia sinuosa* (Mertens ex Roth) Derbès Solier, 1851
Taxon status: Accepted name; taxon occurs in Galapagos.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Fernandina.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).
6. *Colpomenia tuberculata* De A.Saunders, 1898
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Colpomenia sinuosa* f. *expansissima* Setchell N.L. Gardner, *C. sinuosa* f. *tuberculata* (De A. Saunders) Setchell N.L. Gardner
IUCN Red List: Not Evaluated.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).
7. *Desmarestia ligulata* Setchell Gardner
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Fernandina.
References: Guiry, M.D. et al. (2010).
8. *Desmarestia munda* Setchell N.L. Gardner, 1924
Taxon status: Accepted name; taxon occurs in Galapagos.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Isabela.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).
9. *Desmarestia tropica* W.R. Taylor
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Post Office Bay, Isla Santa María, Galápagos Islands, Ecuador (Taylor 1945: 107-108). Holotype: W.R. Taylor No. 34-388; 29 Jan. 1934; dredged from 60 m. NOT in Peru (Acleto 1973; annotation by A. Peters in UC)

Origin: Native, Endemic.

IUCN Red List: Critically Endangered.

Galapagos Distribution: Unknown.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

10. *Dictyopteris cokeri* (M.A. Howe) W.R. Taylor

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Antilles, West Indies (Silva, Basson Moe 1996: 581).

IUCN Red List: Not Evaluated.

Galapagos Distribution: Floreana, Isabela, Santa Cruz.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

11. *Dictyopteris diaphana* W.R. Taylor

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Post Office Bay, Isla Santa María, Galápagos (Taylor 1945: 95, 96). Holotype: W.R. Taylor, no. 34-386A; 29 Jan. 1934; Hancock Foundation (Taylor 1945: 95, 96). Notes: Type infrequent as dredged from 55 m.

Origin: Native, Endemic.

IUCN Red List: Data Deficient.

Galapagos Distribution: Fernandina, Floreana, Isabela.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

12. *Dictyota binghamiae* J. Agardh, 1894

Taxon status: Accepted name; taxon occurs in Galapagos.

"Is Galapagos dictyotalean entity a new species?" (Miller, K.A. 2011)

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Floreana, Isabela, Santa Cruz.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

13. *Dictyota dichotoma* (Hudson) J.V. Lamouroux, 1809

Taxon status: The identification of this taxon or its occurrence in Galapagos is doubtful.

De Clerck (2003) notes that this species is reported from all around the world but is possibly restricted to the north-east Atlantic Ocean and Mediterranean Sea. Tsuda (2004: 50) notes that Schnetter et al (1987), Hornig Schnetter (1988) and De Clerck Coppejans (1997) follow the premise that *D. dichotoma* is restricted to the North Atlantic; therefore, the Pacific species cited as *D. dichotoma* and *D. apiculata* should bear another name.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Darwin, Fernandina, Isabela, Wolf.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

14. *Dictyota dichotoma* var. *intricata* (C. Agardh) Greville

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Dictyota divaricata* J.V. Lamouroux, fide Guiry Guiry (2010)

Galapagos Distribution: Unknown.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

15. *Dictyota flabellata* (F.S. Collins) Setchell N.L. Gardner

Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina.

References: Guiry, M.D. et al. (2010).

16. *Dictyota galapagensis* (Farlow) De Clerck

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Glossophora galapagensis* Farlow, fide De Clerck et al. (2006); Type locality: [Albermarle I.] Isabela, Turtle Pt., March 1899, Snodgrass Heller.

Origin: Native, Endemic.

Galapagos Distribution: Española, Floreana, Santa Cruz.

References: De Clerck, O. et al. (2006), Farlow, W.G. et al. (1902), Garske, L.E. et al. (2002),

Guiry, M.D. et al. (2010).

17. *Dictyota major* W.R. Taylor

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Isla Santa María, Galápagos (Silva, Basson Moe 1996: 595). Holotype: W.R. Taylor, 34-598; 7 Mar. 1938; Dredged from 13-18 m. Hancock Foundation (Taylor 1945: 89). Notes: Type: rare as dredged from 3-18 m off Post Office Bay, I. Santa María, no 34-357, 27 Jan. 1934 (Taylor, 1945: 88, 89). De Clerck (2003: 173) gives the following data: Type locality: Post Office Bay, Isla Santa Maria, Galapagos; Holotype: AHFH in LAM Taylor No. 34-357.

Origin: Native, Endemic.

IUCN Red List: Data Deficient.

Galapagos Distribution: Isabela.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

18. *Eisenia galapagensis* W.R.Taylor, 1945

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Academy Bay, Isla Santa Cruz, Galápagos Islands, Ecuador (Taylor 1945: 109-110). Type: W.R. Taylor No. 34-305; 20 Jan. 1934; Hancock Foundation (Taylor 1945: 109-110). Notes: Frequent as dredged off Academy Bay.

Origin: Native, Endemic.

IUCN Red List: Critically Endangered.

Galapagos Distribution: Fernandina, Isabela.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

19. *Hyalosira hustediana* (Patrick) Navarro

Taxon status: Accepted name; taxon occurs in Galapagos.

Higher taxonomy incomplete.

Origin: Native, Indigenous.

Galapagos Distribution: Unknown.

20. *Lobophora* sp. 1

Taxon status: Taxon not identified to species, subspecies, form or variety.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Isabela.

21. *Lobophora variegata* (J.V.Lamouroux) Womersley ex E.C.Oliveira, 1977

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Pocockiella variegata* (J.V. Lamouroux) Papenfuss, fide Guiry Guiry (2010)

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Isabela, Santa Fé.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

22. *Mesospora pangoensis* var. *galapagensis* (Setchell Gardner) Chihara J. Tanaka

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Ralfsia pangoensis* var. *galapagensis* Setchell N.L. Gardner, fide Guiry Guiry (2010). Type locality: Conway Bay, Indefatigable Island Type: No. 236506 (CAS), leg. J.T. Howell 781, 8 June 1932 Tanaka, J. and M. Chihara. 1982. Note: J. Tanaka Chihara (1982: 388--389) proposed the family Mesosporaceae to accommodate three genera usually placed in the Ralfsiaceae--- *Mesospora* Weber-van Bosse (1911: 27), *Hapalospongidion* D. Saunders (1899: 37), and *Basispora* D. John Lawson (1974: 285--289). These genera were said to share an allegedly unique combination of characters, including intercalary plurilocular reproductive organs, terminal unilocular sporangia not associated with paraphyses, and free-standing vegetative filaments. Womersley (1987: 74--75), however, gave cogent reasons for merging the three genera under the earliest name, *Hapalospongidion* D. Saunders (1899: 37). He retained the combined genus in the Ralfsiaceae

Galapagos Distribution: Santa Cruz.

References: Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937), Tanaka, J. et al. (1982).

23. *Padina conrescens* Thivy
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Black Beach Anchorage, I. Santa María, Galápagos Islands, Ecuador (Taylor 1945: 102-103). Holotype: W.R. Taylor, No. 34-245; 17 Jan. 1934; partly decumbent and conrescent, on rocks. Hancock Foundation (Taylor 1945: 102-103).
Origin: Native, Endemic.
IUCN Red List: Least Concern.
Galapagos Distribution: Fernandina, Isabela, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).
24. *Padina crispata* Thivy
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Golfo Dulce, Costa Rica (Taylor 1945: 100-101). Holotype: W.R. Taylor, no. 39-100; 26 Mar. 1939; infrequent on rocks near the entrance to the bay. Hancock Foundation (Taylor 1945: 100-101).
IUCN Red List: Not Evaluated.
Galapagos Distribution: Wolf.
References: Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).
25. *Padina durvillaei* Bory Saint-Vincent, 1827
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Española, Fernandina, Floreana, Isabela, Santa Cruz.
References: Appeltans, W. et al. (2010), Farlow, W.G. et al. (1902), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Reed, J. et al. (1995), Taylor, W.R. et al. (1945).
26. *Pilinia maritima f. pacifica* F. Thivy ex W.R. Taylor
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Is. Revilla Gigedo, México. (Taylor 1945: 45). W.R. Taylor No. 39-4 pro parte; 1 Mar. 1939; Hancock Foundation (Taylor 1945: 45).
IUCN Red List: Not Evaluated.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).
27. *Sargassum albermarlense* W.R. Taylor, 1945
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Pta. Albemarle, Isla Isabela, Galápagos Islands, Ecuador (Taylor 1945: 118-119). Holotype: W.R. Taylor No. 34-105; 12 Jan. 1934; Hancock Foundation (Taylor 1945: 118-119). Notes: Drifted ashore on Pta. Albemarle.
Origin: Native, Endemic.
IUCN Red List: Vulnerable.
Galapagos Distribution: Fernandina, Floreana, Isabela, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).
28. *Sargassum brandegeei* Setchell N.L. Gardner, 1924
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Guaymas, Mexico (Setchell Gardner 1924: 736). Type: Brandegeei no.4; (Setchell Gardner 1924: 736)
IUCN Red List: Not Evaluated.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).
29. *Sargassum cymosum* C. Agardh
Taxon status: Identification not yet confirmed.
Galapagos Distribution: Unknown.
References: Farlow, W.G. et al. (1902), Guiry, M.D. et al. (2010).
30. *Sargassum galapagense* Grunow, 1886
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.

IUCN Red List: Vulnerable.

Galapagos Distribution: Fernandina, Floreana, Isabela, Santa Cruz.

References: Appeltans, W. et al. (2010), Farlow, W.G. et al. (1902), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Piccone, A. et al. (1886), Setchell, W.A. et al. (1937).

31. *Sargassum galapagense* var. *setifolia* Grunow

Taxon status: Identification not yet confirmed.

Galapagos Distribution: Unknown.

References: Farlow, W.G. et al. (1902), Piccone, A. et al. (1886).

32. *Sargassum howellii* Setchell

Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Floreana.

References: Dawson, E.Y. et al. (1963), Garske, L.E. et al. (2002), Setchell, W.A. et al. (1937).

33. *Sargassum ilicifolium* var. *compactum* (Bory de Saint-Vincent) Grunow

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Sargassum compactum* Bory de Saint-Vincent, fide Grunow (1915)

Galapagos Distribution: Unknown.

References: Grunow, A. et al. (1915), Guiry, M.D. et al. (2010).

34. *Sargassum lendigerum* var. *furcifolia* Grunow ined.?

Taxon status: Identification not yet confirmed.

Galapagos Distribution: Unknown.

References: Farlow, W.G. et al. (1902).

35. *Sargassum obtusifolium* J. Agardh

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Sargassum skottsbergii* Sjöstedt, fide Guiry Guiry (2010)

Galapagos Distribution: Unknown.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).

36. *Sargassum pacificum* f. *congestum* Setchell

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Floreana, Isabela, Santa Cruz.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).

37. *Sargassum pacificum* f. *rigidiusculum* (Grunow) Setchell

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Floreana, Isabela.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937).

38. *Sargassum pacificum* var. *megaphyllum* W.R. Taylor

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Pta. Albemarle, Isla Isabela, Galápagos Islands, Ecuador (Taylor 1945: 122). Holotype: W.R. Taylor No. 34-106; January 1934; Hancock Foundation (Taylor 1945: 122). Notes: Type: in the shore drift at Pta. Albemarle, 13 January 1934. Date given in Latin diagnosis is 12 January 1934.

Origin: Native, Indigenous.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Pedroche, P.F. et al. (2008), Taylor, W.R. et al. (1945).

39. *Sargassum pacificum* var. *pacificum* Bory de Saint-Vincent
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937).
40. *Sargassum pacificum* var. *subdelicatulum* (Grunow) Setchell
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Fernandina, Floreana, Isabela, San Cristóbal, Santa Cruz.
References: Garske, L.E. et al. (2002), Setchell, W.A. et al. (1937).
41. *Sargassum setifolium* (Grunow) Setchell, 1937
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
IUCN Red List: Endangered.
Galapagos Distribution: Fernandina, Floreana, Isabela, San Cristóbal, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).
42. *Sargassum templetonii* Setchell, 1937
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
IUCN Red List: Vulnerable.
Galapagos Distribution: Floreana, Isabela, San Cristóbal, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Pedroche, P.F. et al. (2008), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).
43. *Sargassum zacaе* Setchell, 1937
Taxon status: Taxonomic status unresolved or unrevised.
 = *S. albemarlense*? fide J. Jensen in Miller 2011.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Floreana, Isabela, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).
44. *Spatoglossum howellii* Setchell N.L. Gardner
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Spatoglossum veleroae* W.R. Taylor, fide Guiry Guiry (2010). Type locality: Five miles northeast of Webb Cove, Albemarle Island. Type: CAS 236485, leg. J.T. Howell (938), 22 May 193
Origin: Native, Indigenous.
IUCN Red List: Data Deficient.
Galapagos Distribution: Fernandina, Floreana, Isabela, Santa Cruz.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Pedroche, P.F. et al. (2008), Setchell, W.A. et al. (1937), Taylor, W.R. et al. (1945).
45. *Spatoglossum schmittii* W.R. Taylor, 1945
Taxon status: Accepted name; taxon occurs in Galapagos.
 Type locality: Post Office Bay, Isla Santa María, Galápagos Islands, Ecuador (Taylor 1945: 93-94). Holotype: W.R. Taylor, no. 34-294; 19 Jan. 1934; Hancock Foundation (Taylor 1945: 93-94). Notes: Type: infrequent as dredged from 27 m off Post Office Bay, no. 34-294. No. 34-295 (Latin diagnosis).
Origin: Native, Endemic.
IUCN Red List: Data Deficient.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).
46. *Spatoglossum schroederi* (C. Agardh) Kützing, 1859
Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Unknown.

References: Appeltans, W. et al. (2010), Farlow, W.G. et al. (1902), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

47. *Spatoglossum sp. 1*

Taxon status: Taxon not identified to species, subspecies, form or variety.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Isabela.

48. *Sphacelaria novae-hollandiae* Sonder, 1845

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Sphacelaria hancockii* E.Y. Dawson, fide Guiry Guiry (2010). Type locality: Western Australia (probably near Fremantle) (Silva, Basson Moe 1996: 576). Type: Preiss; MEL 15779 (Womersley Bailey 1970: 290).

IUCN Red List: Not Evaluated.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

49. *Sphacelaria rigidula* Kützinger, 1843

Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Unknown.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

50. *Spongonema tomentosum* (Hudson) Kützinger

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Ectocarpus tomentosus* (Hudson) Lyngbye, fide Guiry Guiry (2010)

Galapagos Distribution: Unknown.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

51. *Sporochnus bolleanus* Montagne, 1856

Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Floreana.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

52. *Sporochnus rostratus* W.R.Taylor, 1945

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Post Office Bay, Isla Santa María, Galápagos Islands, Ecuador (Taylor 1945: 106). Holotype: W.R. Taylor No. 34-287A; 19 Jan. 1934; Hancock Foundation (Taylor 1945: 106). Notes: Dredged at sta. 167 from 27 metres' depth off Post Office Bay.

Origin: Native, Endemic.

IUCN Red List: Vulnerable.

Galapagos Distribution: Unknown.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010), Taylor, W.R. et al. (1945).

53. *Taonia lennebackerae* Farlow ex J.Agardh, 1894

Taxon status: Accepted name; taxon occurs in Galapagos.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Fernandina, Pinzón, Santa Cruz.

References: Appeltans, W. et al. (2010), Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

54. *Zosterocarpus abyssicolus* W.R. Taylor

Taxon status: Accepted name; taxon occurs in Galapagos.

Type locality: Post Office Bay, Isla Santa María, Galápagos Islands, Ecuador (Taylor 1945: 79-80). Holotype: W.R. Taylor no. 34-380; 29 Jan. 1934; An epiphyte dredged from 55 m depth. Hancock Foundation (Taylor 1945: 79-80).

Origin: Native, Endemic.

IUCN Red List: Data Deficient.

Galapagos Distribution: Unknown.

References: Garske, L.E. et al. (2002), Guiry, M.D. et al. (2010).

References:

1. Appeltans, W., Bouchet, P., Boxshall, G.A., Fauchald, K., Gordon, D.P., Hoeksema, B.W., Poore, G.C.B., van Soest, R.W.M., Stöhr, S., Walter, T.C., Costello, M.J. (eds.) (2010) *World Register of Marine Species (WoRMS)*. Available online at <http://www.marinespecies.org>.
2. Dawson, E.Y. (1963) *New records of marine algae from the Galapagos Islands*. Pacific Naturalist 4(1): 1-23.
3. De Clerck, O., Leliaert, F., Verbruggen, H., Lane, C.E., De Paula, J.C., Payo, D.I. Coppejans, E. (2006) *A revised classification of the Dictyoteae (Dictyotales, Phaeophyceae) based on rbcL and 26S ribosomal DNA sequence data analyses*. Journal of Phycology 42: 1271-1288, 6 figs.
4. Farlow, W.G. (1902) *Algae*. In: B.L. Robinson: Flora of the Galapagos Islands. Proc. Amerc. Acad. Arts Sc. 38(4): 89-99, N.S. 14 (Papers from the Hopkins-Stanford Expedition to the Galapagos Islands)
5. Garske, L.E. (2002) *Macroalgas Marinas*. In: Danulat, E. Edgar, G.J. (eds.) (2002): *Reserva Marina de Galápagos. Línea Base de la Biodiversidad*. Fundación Charles Darwin/Servicio Parque Nacional Galápagos, Santa Cruz, Galápagos, Ecuador, p. 419-439.
6. Grunow, A. (1915) *Additamenta ad cognitionem Sargassorum*. Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien 65: 329-448.
7. Guiry, M.D., Guiry, G.M. (2010) *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. <http://www.algaebase.org>.
8. Pedroche, P.F., Silva, P.C., Aguilar Rosas, L.E., Dreckmann, K.M. Aguilar Rosas, R. (2008) *Catálogo de las algas bentónicas del Pacífico de México II. Phaeophycota*. Universidad Autónoma Metropolitana and University of California Berkeley, Mexicali Berkeley, pp. [i-viii], i-vi, 15-146.
9. Piccone, A. (1886) *Alge del viaggio di circumnavigazione della Vettor Pisani*. pp. [1]-97, 2 pls. Genova [Genoa]: Tipografia del Reale Istituto Sordo-Muti.
10. Reed, J., Pomponi, S. (1995) *Submersible and scuba collections in the coastal waters of the Galapagos Islands*. Biomedical and Biodiversity research of the benthic communities with emphasis on the Porifera, Algae and Gorogonacea. Preliminary Cruise Report.
11. Setchell, W.A., Gardner, N.L. (1937) *The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 31: A preliminary report on the algae*. Proceedings of the California Academy of Science, series 4, 22: 65-98, 1 fig, plates 3-25.
12. Setchell, W.A. (1937) *The Templeton Crocker Expedition of the California Academy of Sciences, 1932. No. 34. Report on the Sargassums*. Proceedings of the California Academy of Sciences, ser. 4, 22: 127-158, pls 28-33.
13. Tanaka, J., Chihara, M. (1982) *Morphology and taxonomy of Mesospora schmidtii Weber van Bosse, Mesosporaceae fam. nov. (Ralfsiales, Phaeophyceae)*. Phycologia 21: 382-389.
14. Taylor, W.R. (1945) *Pacific marine algae of the Allan Hancock Expeditions to the Galapagos Islands*. Allan Hancock Pacific Expeditions 12: iv + 528, 3 figs, 100 plates.
15. Womersley, H.B.S. (1964) *The morphology and taxonomy of Cystophora and related genera (Phaeophyta)*. Australian Journal of Botany 12: 53-110.