Table S1. Kelp species recorded in Macaronesia. Source: Algaebase followed by revision of recent checklists and a selection of original bibliography.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Azores | Seamounts off SW Iberia | Madeira | Selvagens | Canary Islands |
| ord. Laminariales |  |  |  |  |  |
| fam. Lessoniaceae |  |  |  |  |  |
| *Ecklonia* spp.(assimilates early muddled records of *E. biruncinata*, *E. exasperata, E. muratii*, *E. radiata* discussed in m) |  |  |  |  | a, b, c  DISREG in d, e |
| fam. Laminariaceae |  |  |  |  |  |
| *Laminaria ochroleuca* (assimilates early records of *L. digitata* and *L. pallida*) | f, g, h | i | j |  | a, b, c  DISREG in d, e |
| *Saccharina latissima* |  |  | k, l, c (DRIFT) |  |  |
| fam. Alariaceae |  |  |  |  |  |
| *Undaria pinnatifida\** |  |  |  |  | m, d (ALIEN) |
| ord. Tilopteridales |  |  |  |  |  |
| fam. Phyllariaceae |  |  |  |  |  |
| *Phyllariopsis brevipes* subsp. *brevipes* | this paper |  |  |  |  |
| *Phyllariopsis purpurascens* |  |  |  |  | DUBIOUS (b, c); DISREG in d, e |
| *Saccorhiza polyschides* |  | i |  |  | n, e, o, c, p, m |

DUBIOUS - old record disproven by revision of original text; DISREG – early records supported by specimens in museum but disregarded in recent checklists.

Algaebase query on 17 April 2020: Guiry, M. D. & Guiry, G. M. 2020. AlgaeBase. World-wide electronic publication, National University of Ireland, Galway. http://www.algaebase.org; searched on 17 April 2020.

*References*

a. Børgesen, F. 1926. Marine algae from the Canary Islands especially from Teneriffe and Gran Canaria II. Phaeophyceae. *KDVS Biol. Medd.* 6(2):1–112.

b. Price, J. H., John, D. M. & Lawson, G. W. 1978. Seaweeds of the western coast of tropical Africa and adjacent islands: a critical assessment. II. Phaeophyta. *Bull. Br. Mus. Nat. Hist. (Bot.)* 6:87–182.

c. John, D. M., Prud'homme van Reine, W. F., Lawson, G. W., Kostermans, T. B. & Price J. H. 2004. A taxonomic and geographical catalogue of the seaweeds of the western coast of Africa and adjacent islands. *Nova. Hedwig. Beih.* 127:1–339.

d. Gallardo, T., Bárbara, I., Alfonso-Carrillo, J., Bermejo, R., Altamirano, M., Gómez-Garreta, A., Barceló, C., Rull, J., Ballesteros, E. & de la Rosa, J. 2016. Nueva lista crítica de las algas bentónicas marinas de España. *Algas* 51:1–48.

e. Haroun, R. J., Gil-Rodríguez, M. C., Díaz de Castro, J. & Prud'homme van Reine, W. F. 2002. A checklist of the marine plants from the Canary Islands (central eastern Atlantic Ocean). *Bot. Mar.*, 45:139–69.

f. Neto, A. I. 1994. Checklist of the Benthic Marine Macroalgae of the Azores. *Arquipélago* 12A:15–34.

g. Tittley, I., Neto, A. I., Farnham, W.F. & Parente, M.I. 2001. Additions to the marine algal (seaweed) flora of the Azores. *Bot. Mar.*, 44:215–20.

h. Parente, M. I. 2010. Lista das macroalgas marinhas (Rhodophyta, Chlorophyta e Phaeophyceae) - List of marine macroalgae (Rhodophyta, Chlorophyta and Phaeophyceae). *In* Borges, P. A. V., Costa, A., Cunha, R., Gabriel, R., Gonçalves, V., Frias Martins, A., Melo, I., Parente, M., Raposeiro, P., Rodrigues, P., Serrão Santos, R., Silva, L., Vieira, P. & Vieira, V. [Eds.]. *Listagem dos organismos terrestres e marinhos dos Açores (A list of the terrestrial and marine biota from the Azores).* Princípia Editora, Cascais, Portugal, pp. 275–86.

i. Tittley, I., Álvaro, N. M. & Neto, A. I. 2014. Preliminary observations on the benthic marine algae of the Gorringe seabank (northeast Atlantic Ocean). *Helgol. Mar. Res.* 68:307–12.

j. Fundação Rebikoff-Niggeler. 2020. *Relatório de Atividades 2019*. Accessed 24/6/2020 at https://www.rebikoff.org/wp-content/uploads/2020/01/Relatório-de-Atividades-2019.pdf

k. Menezes, C. A. 1926. Contribuição para o estudo das algas da Madeira. *Broteria* *Bot.* 22:71–78.

l. Neto, A. I., Cravo, D.C. & Haroun, R. T. 2001. Checklist of the benthic marine plants of Madeira Archipelago. *Bot. Mar.* 44:391–414.

m. Afonso-Carrillo, J. 2014. *Lista actualizada de las algas marinas de las islas Canarias, 2014*. Sociedad Española de Ficología, Las Palmas, Spain. 64 pp.

n. Ballesteros, E., Sansón, M., Reyes, J., Afonso-Carrillo, J. & Gil-Rodríguez, M. C. 1992. New records of benthic marine algae from the Canary Islands. *Bot. Mar.* 35:513–22.

o. Gil-Rodríguez, M. C., Haroun, R., Ojeda Rodríguez, A., Berecibar Zugasti, E., Domínguez Santana, P. & Herrera Morán, B. 2003. Proctoctista. *In* Moro, L., Martín, J. L., Garrido, M. J. & Izquierdo, I. [Eds.]. *Lista de especies marinas de Canarias (algas, hongos, plantas y animales)*. Consejería de Política Territorial y Medio Ambiente del Gobierno de Canarias, Las Palmas, Spain, pp. 5–30.

p. Anon. 2011. Listado preliminar de especies marinas de Canarias. Observatorio Ambiental Granadilla, Tenerife, Spain. 174 pp.