

Nomenclatural notes on some *Caulerpa* names (*Caulerpaceae*, *Ulvophyceae*)

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While processing for AlgaeBase a recent review of the phylogeny of the genus *Caulerpa* (Draisma & Sauvage 2024) some minor but unresolved nomenclatural issues were found.

Caulerpa prudhommei Guiry, *nom. nov.*

Replaced name: *Caulerpa pennata* J. Agardh, *nom. illeg.* *Lunds Universitets Års-Skrift, Afdelningen for Matematik och Naturvetenskap* 9(8): 26, no fig. 1873. Priority for *Caulerpa pennata* J.V. Lamouroux, *Nouveau Bulletin des Sciences, par la Société Philomathique de Paris* 1: 332, 1809, *nom. illeg.* [= *Caulerpa taxifolia* (M. Vahl) C. Agardh].

Type locality: "Hab, in Oceano pacifico calidiore. Ad Friendly Islands (Harvey!)" [Tonga] "*C. plumaris* var. Harv. Friendly Isl. Algae n:o 68 (*inmixta C. plumari*)"

Registration: <http://phycobank.org/104617>

Eponymy: The specific epithet of the replacement name honours the late Willem F. Prud'homme van Reine (1941–2020, known to colleagues as 'Prud'homme' a name of French origin, meaning a wise, honest or sensible man) who made extensive contributions to the taxonomy of the genus *Caulerpa*. Other names based on W.H. Harvey (who collected the type), J. Agardh (who described it), the Friendly Islands (the type locality), and even Tonga (the native name for the Friendly Isles, so-named by Captain James Cook in 1773 because of the friendly welcome from the natives) are already occupied. Harvey sailed from Sydney on 15 June 1855 on board a missionary vessel *John Wesley* eventually arriving at Tonga via Auckland on 26 July, returning to Sydney in mid-December (Anon. 1869).

Distribution: Tonga (Agardh 1873); Indonesia (Atmadja & Prud'homme van Reine 2014).

Note: *Caulerpa pennata* J.V. Lamouroux represented an unwarranted change of name for *Fucus taxifolia* M. Vahl, 1802, now *Caulerpa taxifolia* (M. Vahl) C. Agardh.

Caulerpa vitifolia (Bonpland) C. Agardh, *Systema Algarum*, p. 184, 1824.

Basionym: *Fucus vitifolius* Bonpland (in Humboldt & Bonpland), *Plantes équinoxiales...* vol. 2: 8, pl. 69: fig. A, 1809.

Type locality: "Habitat is fundo Oceani Africani, juxta insulas Canarias" [Canary Islands]

Note: The binomial *Caulerpa vitifolia* is mostly attributed to Lamouroux (1813: 66, *et seq.*), probably resulting from an error in Kützing (1849: 499), and followed by others, but was not made in Lamouroux's *Essai*. It appears to have been first introduced by C. Agardh (1824: 184). Lawson & Price (1969: 293) refer this taxon to *Flabellia petiolata* (Turra) Nizamuddin [*Halimedaceae*; as *Udotea petiolata* (Turra) Børgesen] and Draisma & Sauvage (2024) also consider it to represent this species, and this is clearly correct to judge from the original plate (Humboldt & Bonpland 1809: pl. 69: fig. A).

Agardh, C.A. (1824). *Systema algarum*. pp. [i]-xxxvii, [1]-312. Lundae [Lund]: Literis Berlingianis [Berling].

Agardh, J.G. (1873 '1872'). Till algernes systematik. Nya bidrag. *Lunds Universitets Års-Skrift, Afdelningen for Matematik och Naturvetenskap* 9(8): 1-71.

Anonymous (1869). *Memoir of W.H. Harvey, M.D., F.R.S., etc.*, late professor of Botany, Trinity College, Dublin. With selections from his journal and correspondence. pp. i-xvi, 1-372. London: Bell & Daldy. [The anonymous authors was Lydia Fisher, a cousin of Harvey's]

Atmadja, W.S. & Prud'homme van Reine, W.F. (2014). *Checklist of the seaweed species*

- biodiversity of Indonesia with their distribution and classification: green algae (Chlorophyta) and brown algae (Phaeophyceae, Ochrophyta)*. pp. [2], i-v, 1-59. Leiden & Indonesia: Naturalis Biodiversity Centre, Indonesian Institute of Sciences (LIPI).
- Baas, P., Draisma, S.G.A, Olsen J.L., Stam, W.T. & Hoeksema, B.W. (2020). In memoriam Willem F. Prud'homme van Reine (3 April 1941 – 21 March 2020). *Blumea* 65(2): i-ix, 2 figs.
- Draisma, S.G.A. & Sauvage, T. (2024). A *tufA* reference sequence library for the green algal genus *Caulerpa* (Bryopsidales). *Jeju Journal of Island Sciences* 1(1): 1-11, 1 figure.
- 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). *Botanica Marina* 45: 139-169.
- Humboldt, A. von & Bonpland, A.[J.G.B.] (1809). *Plantes équinoxiales recueillies au Mexique: dans l'île de Cuba, dans les provinces de Caracas, de Cumana et de Barcelone, aux Andes de la Nouvelle Grenade, de Quito et du Pérou, et sur les bords du rio-Negro de Orénoque et de la rivière des Amazones*. Vol. 2, pp. [i-v], [i]-191, pl. 66-97, 98 ['97'], 99-140. Paris: F. Schoell.
- Lamouroux, [J.V.F.] (1809). Mémoire sur les Caulerpes, nouveau genre de la famille des Algues marines. *Journal de Botanique [Desvaux]* 2: 136-146, 2 figs [2, 3], 2 plates [II, III].
- Lamouroux, J.V.[F.] (1813). *Essai sur les genres de la famille des Thalassiophytes non articulées* présenté a l'Institut, dans la séance du 3 Février 1812. pp. [1]-84, + 7 plates [7-13]. Paris: G. Dufour et Cie, de l'Imprimerie de A. Belin. (also published in *Annales du Muséum d'Histoire Naturelle* 20: 21-47, 115-139, 267-293, 7 plates [7-13]).
- Lawson, G.W. & Price, J.H. (1969). Seaweeds of the western coast of tropical Africa and adjacent islands : a critical assessment. I. Chlorophyta and Xanthophyta. *Journal of the Linnean Society of London, Botany* 62: 279-346.
- Vahl, M. (1802). Endeel kryptogamiske Planter fra St.-Croix. *Skrifter af Naturhistorie-Selskabet, København* 5(2): 29-47.