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**Three new species of *Delicatophycus* M.J.Wynne (*Gomphonemataceae*, Bacillariophyta) from New Caledonia**

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“*Delicata* Krammer,” proposed as a generic designation by Krammer (2003: 110), is invalid (Wynne 2019) as it is a technical term proscribed by ICN Art. 20.2 (Shenzhen Code, Turland *et al.* 2018). As the generic designation is invalid, all designations at the species level are also invalid. We here propose to provide new names for invalid designations for three taxa described recently by us (Le Cohu, Marquié & Tudesque 2018) from New Caledonia.

***Delicatophycus pouemboutensis*** Tudesque, Marquié & Le Cohu, *sp. nov.*Description and figures: *Diatom Research* 33: [3], figs 2-23.Holotype: **PC** 0145192, National Museum of Natural History, Paris, France.Isotype: **BR** 4485, National Botanical Garden of Belgium, Meise, Belgium.

Type locality: River Pouembout in the municipality of Bourail, New Caledonia.

Etymology: Refers to the river in which the species was sampled.

***Delicatophycus gobinianus*** Le Cohu, Marquié & Tudesque, *sp. nov.*Description and figures: *Diatom Research* 33: [4], figs 40-43.Holotype: **PC** 0145193, National Museum of Natural History, Paris.Isotype: **BR**-4486, National Botanical Garden of Belgium, Meise, Belgium.

Type locality: Mont-Dore, south arm of the Baie Nord River. New Caledonia.

Etymology: *Delicatophycus gobinianus* is named for our colleague and friend Catherine Riaux-Gobin, specialist for marine *Cocconeis* Ehrenberg.***Delicatophycus karemboui*** Le Cohu, Marquié & Tudesque, *sp. nov.*Description and figures: *Diatom Research* 33: [10], figs 71-73.Holotype: **PC** 0145194, National Museum of Natural History, Paris.Isotype: **BR** 4487, National Botanical Garden of Belgium, Meise, Belgium.

Type locality: Pouembout, River Papainda, New Caledonia.

Etymology: Dedicated to Christian Karembou, representative of the Kanak people (indigenous Melanesian inhabitants of New Caledonia) in the French football team, winner of the 1998 FIFA World Cup.

Krammer, K. (2003). *Cymbopleura*, *Delicata*, *Navicymbula*, *Gomphocymbellopsis*, *Afrocymbella*.In: *Diatoms of Europe, Diatoms of the European Inland waters and comparable habitats*.

(Lange-Bertalot, H. Eds) Vol.4, pp. 1-529. Rugell: A.R.G. Gantner Verlag K.G.

Le Cohu, R, Marquié, J. & Tudesque, L. (2018). Three new species of *Delicata* (Bacillariophyceae - Cymbellales) from New Caledonia and further observations on *Delicata nepouiana* Krammer and *D. neocaledonica* Krammer. *Diatom Research* 33: [1-16], 39-53, 97 figs.

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Turland, N.J., Wiersema, J.H., Barrie, F.R., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Kusber, W.-H., Li, D.-Z., Marhold, K., May, T.W., McNeill, J., Monro, A.M., Prado, J., Price, M.J. & Smith, G.F., editors (2018). *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code)* adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017. *Regnum Vegetabile*, Vol. 159. pp. [i]-xxxviii, 1-253. Glashütten: Koeltz Botanical Books.

Wynne, M.J. (2019). *Delicatophycus* gen. nov.: a validation of “*Delicata* Krammer” inval. (*Gomphonemataceae*, Bacillariophyta). *Notulae Algarum* 97: 1-3, no figs. [Online “8 March 2019”.]