

Holotypes of *Dictyopteris camiguinensis* (Dictyotaceae, Phaeophyceae), *Claudea batanensis* (Delesseriaceae, Florideophyceae), and *Avrainvillea capituliformis* (Dichotomosiphonaceae, Ulvophyceae)

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During a study of the marine algae of northern Philippines, Takesi Tanaka (1907–1997) described three taxa new to science: the brown seaweed *Dictyopteris camiguinensis* Tak.Tanaka, the green seaweed *Avrainvillea capituliformis* Tak.Tanaka, and the red seaweed *Claudea batanensis* Tak.Tanaka (Tanaka 1967). In the protologue of each, Tanaka (1967) identified his types by collection numbers rather than herbarium voucher codes, and no herbarium was identified as the repository. While not standard practice at that time, using herbarium codes to assign a type during species description provides an intuitive, consistent guide to locating the specimen for subsequent works. Accordingly, I here provide details and illustrations of the types of *D. camiguinensis*, *C. batanensis*, and *A. capituliformis*.

Dictyopteris camiguinensis Tak.Tanaka

Holotype: **SAP** 052182 (Tanaka 19672) (Fig. 1A).

Type locality: San Pio Quinto, Camiguin Island, Calayan, Cagayan, Philippines (Tanaka 1967).

Claudea batanensis Tak.Tanaka

Holotype: **SAP** 052170 (Tanaka 19673) (Fig. 1B).

Type locality: Basco, Batan Island, Batanes, Philippines (Tanaka 1967).

Note: Two sets of vouchers are found on a single herbarium sheet, one with a handwritten note “Basco NW... Nov. 15 1964” and the other with “San Pio Quint NW... Nov. 19 ‘64”. Considering that its provenance is Basco, Batanes, the former voucher is illustrated here. The protologue (along with the herbarium label) also indicated “10 Nov., 1964” as the collection date, however, the handwritten note indicated “Nov. 15 1964”. It is likely that the correct date is the latter.

Avrainvillea capituliformis Tak.Tanaka

Holotype: **SAP** 052189 (Tanaka 19671) (Fig. 1C).

Type locality: San Pio Quinto, Camiguin Island, Calayan, Cagayan, Philippines (Tanaka 1967).

Note: Olsen-Stojkovich (1985) synonymised this species under *Avrainvillea obscura* (C.Agardh) J.Agardh.

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Olsen-Stojkovich, J. (1985). A systematic study of the genus *Avrainvillea* Decaisne (Chlorophyta, Udoteaceae). *Nova Hedwigia* 41: 1–68, 26 figures, 3 tables, 11 plates.

Tanaka, T. (1967). Some marine algae from Batan and Camiguin Islands, northern Philippines – 1. *Memoirs of the Faculty of Fisheries, Kagoshima University* 16: 13–27, 10 figures, 2 plates.

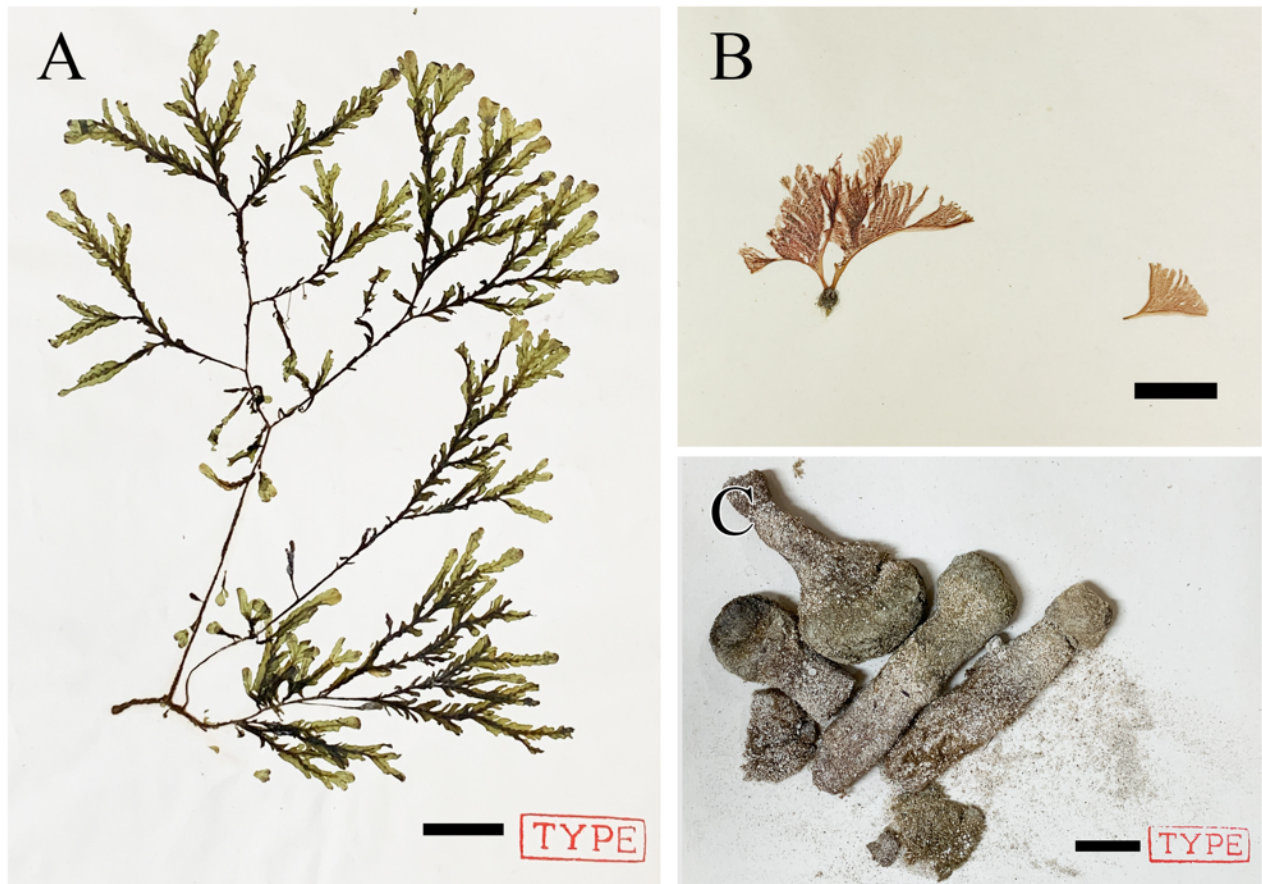


Fig. 1. Holotype specimens of (A) *Dictyopteris camiguinensis* Tak.Tanaka (SAP 052182; scale bar = 2 cm), (B) *Claudea batanensis* Tak.Tanaka (SAP 052170; scale bar = 1 cm), and (C) *Avrainvillea capituliformis* Tak.Tanaka (SAP 052189; scale bar = 2 cm). Photographs courtesy of Professor Kazuhiro Kogame.