Spirogyra Hollandia, a New Species from New Guinea

Taft, Clarence E.

The Ohio Journal of Science. v47 n4 (July, 1947), 173
http://hdl.handle.net/1811/3593

Downloaded from the Knowledge Bank, The Ohio State University's institutional repository
SPIROGYRA HOLLANDIA, A NEW SPECIES FROM NEW GUINEA

CLARENCE E. TAFT,
The Ohio State University

The type material was collected at Hollandia, Dutch New Guinea, by Mr. Robert Sigafoos, now at the Harvard Biological Laboratories. Collections from Biak, Dutch New Guinea, made by Dr. M. E. Britton, Northwestern University, established the limits of variability of the species as it is now described.

The writer expresses his appreciation to Mr. Sigafoos and Dr. Britton for the material, and to Dr. E. N. Transeau, Professor Emeritus of this department, for his criticisms and for the use of his unpublished monograph on the Zygnemataceae which made possible the segregation of the species.

Vegetative cells 36–41μ x 60–192μ with plane end walls; 2 chromatophores, broad with large pyrenoids, making 1.5–2.5 turns in the cell; conjugation usually lateral, rarely scalariform; tubes formed by both gametangia; sterile cells sometimes inflated; receptive gametangia cyindric or enlarged; zygospore ellipsoid with rounded ends, 38–42μ x 62–78μ, median wall smooth, bright yellow at maturity.

Dutch New Guinea: Hollandia (Robert Sigafoos Coll.): Biak (M. E. Britton Coll.).

*Paper from the Department of Botany, The Ohio State University, Columbus, Ohio. No. 498.*

173