

## Notes on Marine Algae New to Taiwan

W.-L. Wang, H.-K. Chen and Y.-M. Chiang

*Institute of Oceanography, National Taiwan University, Taipei, Taiwan*

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## Abstract

Twelve species of marine algae are newly recorded from Taiwan and its offshore islands. These include 3 species of Chlorophyta and 9 species of Rhodophyta. They are *Tydemania expeditionis* Weber-van Bosse, *Udotea argentea* Zanardini, *Udotea fragilifolia* Tseng et Dong, *Porphyra vietnamensis* Tanaka et P.-H. Ho, *Titanophora pulchra* Dawson, *Botryocladia leptopoda* (J. Agardh) Kylin, *Laurencia nipponica* Yamada, *L. okamurai* Yamada, *L. pannosa* Zanardini, *L. dotyi* Saito, *L. hamata* Yamada and *L. parvipapillata* Tseng. Of these *Tydemania* and *Titanophora* are new genera for Taiwan. Their biogeographical affinities are also discussed briefly.

## Introduction

The algal flora of Taiwan has been studied by several workers (Yamada 1925 a, b, 1950, Okamura 1931, Ishijima 1941, 1942, Shen and Fan 1950, Chiang 1960, 1962 a, b, 1973 a, b, Chiang and Chou 1980, Chou and Chiang 1981, Chiang and Chen 1982, Yang and Chiang 1982, Chiang and Wang 1987, Lewis and Norris 1987, Huang 1990, 1991). Most of these researches have dealt with intertidal algal surveys. However, due to the wide use of SCUBA diving in the investigation of the sublittoral zone, new interest has been focused on sublittoral algae. Using this method of survey, we have found several taxa that were not previously recorded from Taiwan.

## Material and Methods

Collections were made by SCUBA and skin diving at different localities on the main island of Taiwan, Green Island and Orchid Island (Fig. 1) on several occasions from May 1982 to December 1991. Specimens were preserved in 10% formalin in seawater for 12 hours, then mounted on herbarium paper. For taxonomic studies both mounted herbarium specimens and formalin-preserved materials were used. Sections were made by hand using razor blades or with a freezing microtome, then stained with 1% aniline blue and mounted in 'Karo' dextrose syrup.

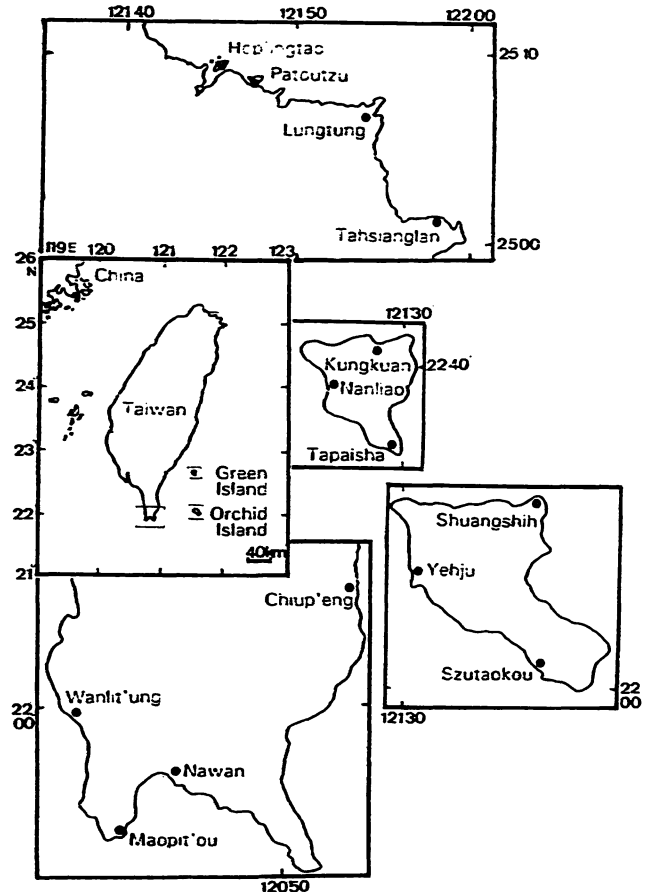


Fig. 1. Map showing collecting localities in Taiwan. Green Island and Orchid Island.