

Keong air tawar suku Thiaridae di Danau Poso studi Morfologi, anatomi marga *Tylomelania* dari danau Poso, Sulawesi Tengah (Moluska : Gastropoda Caenogastropoda)

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Abstrak

There are 49 nominal taxa of Thiaridae known from Sulawesi and 11 species from Lake Poso, Central Sulawesi have been reported by Sarasin & Sarasin (1897 & 1898). Since then, no study on the systematic of the species from Lake Poso have been carried out. The basic information on the morphology of those species were described for the first time in 1897 & 1898. However, information on their habitat and distribution are still lacking.

Lake Poso is a tectonic-lake, which lies at 510 m above sea level and covers about 32,000 hectares. The deepest part of the lake reaches 450 meters. To study the diversity and distribution of Thiaridae in Lake Poso, snails were collected from 33 locations (outlet, inlet, and area of the lake), using sieve and by hand (at the shallow area) or small hand dredge (at deep area). Morphology characters (height, width of shell and aperture; number of axial and spiral ribs at the penultimate and body whorls) were examined. Anatomical study (head, neck, tentacle, eye, snout, sole, foot groove); pallial cavity (ctenidium, osphradium, rectum, mantle edge); alimentary system (buccal mass, radula sac, radula, stomach); reproductive system (female: brood pouch, bursa copulatrix, albumen gland, egg, embryo, ovary; male: prostate gland, testis, testicle lobes, vas deferens); nervous system (cerebro ganglion, pleuro ganglion, pedal ganglion) was conducted only on *Tylomelania*.

Totally there are 13 species and more than eight undescribed species of Thiaridae identified in this study. Most of the species belong to the genus *Brofia* which occurred at the area of the lake (LP 10, LP 11, LP 12, LP 13, LP 15, LP 16, LP 17, LP 17 a, LP 18, LP 19, LP 20, LP 21, LP 22, LP 23, LP 24, LP 24 a, LP 25, LP 26, LP 27, LP 28, LP 29, LP 31), outlet (LP 1, LP 2, LP 3, LP 4) and inlet area (LP 5, LP 6, LP 7, LP 8, LP 9, LP 30). *B. toradjarum*, *B. sca/ario psis*, *B. ku/i*, *B. centaurus* were found at the area of the lake, while *B. perfecta* and *B. robusta* at the inlet and outlet respectively. There are two species of *Melanoides* (*M. tuberculata* & *M. granífera*) found at the area of the lake, and one species, *M. punctata*, occurred only at the stream of Saluopa (inlet area).

The anatomy of the genus *Tylomelania* was described for the first time. Comparative study on the morphology and anatomy were based on specimen of *T. neritiformis*, *T. porcellanica*, and *T. carbo*. The anatomical characters described and compared: the length and width of buccal mass, radula sac, ctenidium, osphradium, stomach, style-sac, albumen gland, eggs, and embryos, cerebral commissure, pedal commissure. The shape and position of anus, rectum, ctenidium, osphradium, radula, brood pouch, bursa copulatrix, albumen gland, genital Opening, prostate gland, ovary, testis, cerebro ganglion, pleuro ganglion, pedal ganglion, suboesophageal ganglion, supraoesophageal ganglion presented for the first time.