

viewed laterally; lateral pair of nematothecae arising from apophysis of internode and usually extending beyond the margin of the hydrotheca

A. ritchiei Totton, 1930

2. (1) All proximal nodes defining the hydrothecal internodes well marked and very oblique but distal nodes, transverse and often poorly developed athecate internodes between hydrothecal internodes with one (occasionally two) mesial nematothecae; hydrothecae with abcauline and adcauline sides parallel; lateral pair of nematothecae arising from internode apophysis but not extending beyond the margin of the hydrotheca

A. africana Broch, 1914

***Antennella ritchiei* Totton, 1930 Fig. 1, d-e and h.**

1930. *Antennella ritchiei* Totton, p. 211, text-fig. 52, a-b.

Erect stems thin hair-like hydrocladia, up to 1.0 cm in length, and arising from stem-like bundles of hydrorhizal tubes; hydrorhizal tubes with scattered bithalamic nematothecae; basal hydrocladial region athecate, up to 2.75 mm in length and divided by transverse nodes into internodes of irregular length; distal athecate internode with two or three, more or less evenly spaced nematothecae, other athecate internodes usually without nematothecae; a well developed oblique node between the last basal athecate internode and the remainder of the hydrocladium which is divided alternately into thecate and athecate internodes by alternating transverse and oblique nodes; distal node of thecate internode transverse, that of the athecate internode steeply oblique, both transverse and oblique nodes often not readily observed; thecate internodes 0.40 to 0.45 mm in length; athecate internodes 0.30 to 0.52 mm in length; hydrocladium 0.13 to 0.15 mm in width measured at the base of the hydrotheca; hydrothecae large, close together, but projecting well out from the internode; margin flared; hydrotheca slightly compressed dorso-laterally, nearly cylindrical when viewed from the side; free adcauline wall considerably shorter than the aperture diameter; floor of hydrotheca with a sharp upward curve on the adcauline side; abcauline wall 0.21 to 0.25 mm in length; length of the free adcauline wall 0.08 to 0.10 mm, length of fixed adcauline wall 0.06 to 0.08 mm; diameter at margin of hydrotheca 0.22–0.25 x 0.23–0.28 mm; nematothecae bithalamic, somewhat scoop-shaped with adcauline side shorter than abcauline; nematothecae from 0.045 to 0.075 mm in length; 0.02 to 0.045 mm in width at the aperture; two mesial nematothecae on the athecate internodes of the medial and distal regions of the hydrocladium; five nematothecae on each thecate internode, one mesial subhydrothecal nematotheca, and two pairs of nematothecae lateral to the hydrotheca and, of these lateral pairs, one pair large, each nematotheca carried on a well developed apophysis and reaching almost to the margin of the hydrotheca and, a much smaller pair, the members of the pair arising from the base of the apophysis of the larger pair: gonothecae arising from the hydrocladium singly between the base of the hydrotheca and the subhydrothecal nematotheca; female gonotheca broad, carried on a pedicel of two segments; distal end truncated; distal terminal aperture subcircular; two nematothecae on sides of lower part of gonotheca; length of young female gonotheca excluding the pedicel 0.35 to 0.45 mm and maximum diameter 0.20 to 0.30 mm.

LOCALITY. Type locality, off Three Kings, New Zealand, 300 fathoms (Totton, 1930): off Moeraki, 40 fathoms (P.M.R.), 11/2/51, 57.

There are five stem-like bundles of hydrorhizal tubes of *A. ritchie* in the present collection, the shortest 1.0 cm in length, three others approximately 2.0 cm and one 3.0 cm, the latter carrying 38 hydrocladia. The hydrocladial nodes are better developed in these specimens than in those described by Totton (1930) from the far North, off Three Kings Islands. Only one fertile hydrocladium was found bearing four young female gonothecae which are very similar in form and size to those of *A. africana*.

***Antennella africana* Broch, 1914. Fig. 1, a-c, f-g, and k.**

1914. *Antennella quadriaurita* Ritchie forma *africana* Broch, p. 26.

1923a. *Antennella africana* Broch. Stechow, p. 13 (synonymy).

1925. *Antennella africana* Broch, Stechow, p. 492, fig. 41.

1930. *Antennella serrata* Totton, p. 212, text-fig. 53.

1932. *Antennella quadriaurita* Ritchie. Leloup, p. 162, pl. XVI, fig. 2 (synonymy).

1957. *Antennella africana* Broch. Millard, p. 226.