

- erect filaments, often *curved*, sometimes branched, arising *irregularly* from the prostrate filaments, ending in dense branched "hairs" (trichoblasts), filaments with central strings of cells (often obscured) each cell of which is ringed by $\boldsymbol{6}$ equal-sized cells (pericentral cells) producing distinct *broad* bands (segments) along the filaments
- large tetrasporangia in an extended *spiral* along erect filaments, slightly *distorting* the branch (other reproductive structures unknown)

only known from Frenchman Bay, W Australia and Mangrove Point, N Spencer Gulf, S Australia but possibly overlooked at other sites

found in shallow water (upper sublittoral) on rock, partly covered with sand Polysiphonia scopulorum but that has 4 pericentral cells and Herposiphonia calothrix but that has 7-8 pericentral cells and a *sequence* of 3 erect branches of limited growth then one of unlimited growth along the prostrate filament

Description in the Benthic Flora Part IIID, pages 200-202





Polysiphonia teges stained blue and viewed microscopically

- 1. erect filaments, bearing tetrasporangia (t sp) in spirals, ending in colourless branched trichoblasts (trich) (slide 4494)
- 2. tissue squash: central filament (c fil), 6 flanking pericentral cells (1-6) (slide 4495)
- 3. single rhizoid (*rh*) ending in a branched holdfast (hapteron, *ha*) (slide 4481)

* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, State Herbarium S Australia, May 2007; revised August 2014

Occurrences

Usual Habitat Similar Species

Details of anatomy



4. from Frenchmans Bay, Albany W. Australia A49279 in shallow water on sand covered rocks

- 5, 6. specimens viewed microscopically
 - 5. creeping thread (prostrate filament), upright branches, slightly curved, numerous colourless branched "hairs" (trichoblasts, *trich*) at the tips of growing branches (slide 4494)
 - 6. direct cellular connection (arrowed) of rhizoid contents with prostrate filament cell (slide 4481)

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