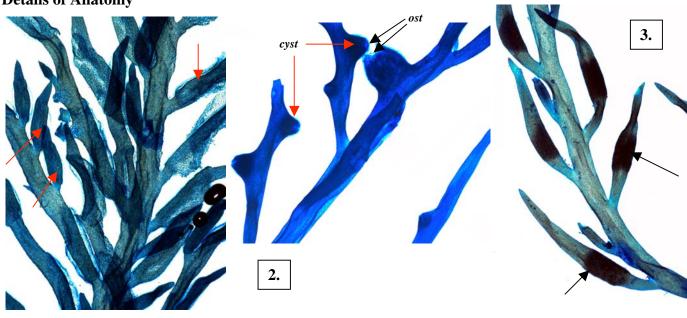


**Description in the Benthic Flora** Part IIIA, pages 437, 440-442 **Details of Anatomy** 



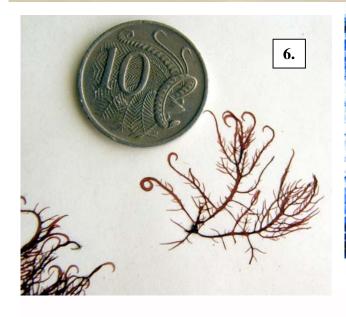
Hypnea ramentacea stained blue and viewed microscopically showing:

1.

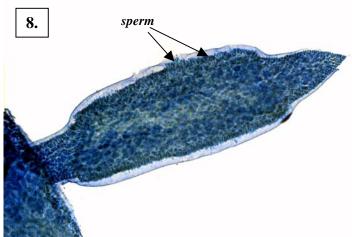
- 1. dense radial branches with pointed tips, some with swollen parts near the base producing spermatangia (arrowed) (A42362 slide 13246)
- 2. a female plant with swollen cystocarps (*cyst*), their bases embedded in branches and opening at the tips (ostiole, *ost*) (A59787 slide 13252)
- 3. a sporangial plant with swollen sections above the bases of short side branches (arrowed) bearing tetrasporangia (A43719 slide 13250)

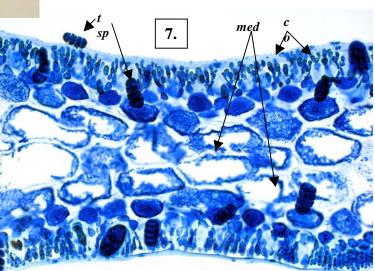
\* Descriptive names are inventions to aid identification, and are not commonly used Prepared December 2007





4.





5.

- Hypnea ramentacea (C Agardh) J Agardh A30272.from West I., Victor Harbor, S Australia, 10m deep
- 5. specimens (A0673) from Port Elliot, S Australia showing colour variations on drying
- 6. detail of the hooked branch endings of A60650
- 7, 8. specimens stained blue and viewed microscopically
  - 7. a lengthwise slice through the swollen part (nemathecium) of a branch bearing tetrasporangia showing the middle section (medulla, *med*) of large cells, branching small cells at the surface layer (cortex, *co*) and zonately divided tetrasporangia (*t sp*, one extruded) (A43719 slide 13251)
  - 8. detail of a short branch with minute spermatangia (sperm) produced in the outer layer near the swollen base

\* Descriptive names are inventions to aid identification, and are not commonly used Prepared December 2007