Hildenbrandia lecannellieri Hariot

A SPECIES WITH FEW RECORDS

Phylum: Rhodophyta; Order: Hildenbrandiales; Family:

red warty rock crust

MICRO

Techniques needed and plant shape

Classification

*Descriptive name Features

Special requirements



form warty or bumpy *crusts* on rocks in pools high in the *intertidal*crusts about 1mm thick at the edges reaching *6mm* thick in the middle, easily detached when old, fragmenting when dried

1. plants dark red-brown to purplish about 10mm across but merging together to

1. prise off a piece of crust. View the surface microscopically near the crust edge to view:

- radiating rows of small cube-shaped cells, in the outer or cortical layer
- a central disc of ball-shaped or polygonal cells forming a middle or medulla layer in vague rows
- in old plants, gaps appear between the rows of medulla cells

2. if possible, slice across a warty lump through a fertile pit or conceptacle and view microscopically to find:

- hairs (paraphyses) lining the pit
- cigar-shaped tetrasporangia, divided finally into 4 sporangia roughly in a line (zonate)
- the conceptacle opening by a small pore (ostiole)

widespread in sub-Antarctic regions (such as Tierra del Fuego). In southern Australia only from Cape Willoughby, Kangaroo I., S. Australia, but possibly also in Tasmania

Similar Speciesa unique crustose alga because of its warty or lumpy surfaceDescription in the Benthic FloraPart IIIA, pages 144-145, 146Details of Anatomy

Hildenbrandiaceae



* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, January 2010

Usual Habitat



4, 5. two fragmented crusts of *Hildenbrandia lecannellieri* Hariot, (A7018, A12986 a) from Cape Willoughby, Kangaroo I., S. Australia, chipped from rocks found in a pool high in the intertidal. A littorinid snail from the same zone is included for comparison in the top image
6. surface view of a the edge of a crust showing a central patch of rounded cells (medulla, *med*) and outer layer (cortex, *co*) of radiating rows of cells (A7018, slide 11463)