## Techniques needed and plant shape



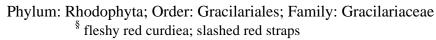








Classification \*Descriptive name **Features** 



- 1. dark red brown, 200-600mm tall, growing *upright*, irregularly *flat-branched* (branching from margins), branches *tough*, drying gristly, *flattened*, narrower at base
- 2. mature female structures (cystocarps) ball-shaped, about 1mm across, on margins, often in a line



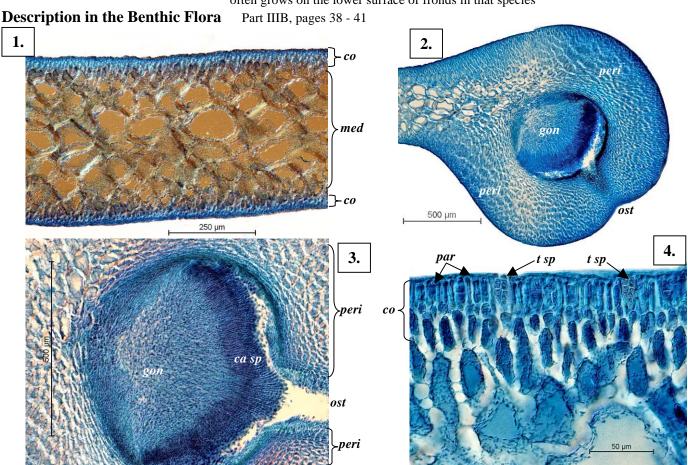
New Zealand? From central W Australian coast to NSW and around Tasmania a deep water species (to 70m) on rock, in rough water

- 1. cut cross sections of blades and view microscopically the wide core of large, equalsided cells with thick walls, grading to outer layers, of much smaller cells, equal in thickness on both sides of the blade
- 2. cut sections and view microscopically
- cystocarps with central mass of threads ending in short bead-like chains of carposporangia, surrounded by a thick wall of diamond-shaped cells and a single opening
- patches of tetrahedrally-divided sporangia mixed with hairs ending in a swollen cell Curdiea obesa, but plants lie flat, the cortex is thicker on the upper surface and sponge often grows on the lower surface of fronds in that species

**Occurrences Usual Habitat Special requirements** 



**Similar Species** 



Cross sections of Curdiea angustata stained blue and viewed microscopically

- branch with core (medulla, med) of large, thick-walled cells, equal outer layers (cortex, co) of small cells (A47003 slide 13444)
- 2, 3. two magnifications of a cystocarp (cys) at branch edge: central mass of threads (gonimoblast, gon) ending in short chains of carposporangia (ca sp), thick wall (pericarp, peri) of diamond-shaped cells and single opening (ostiole, ost) (A47003 slide 13445)
- 4. detail of a patch (sorus) of tetrasporangia divided in a cross-shape pattern amongst hairs (paraphyses, par) ending in a swollen cell (A63260 slide 14017)



Different magnifications of pressed, drift specimens of Curdiea angustata (Sonder) Millar from S Australia

- 5. from Cape Lannes (A63260)
- 6. from Stinky Bay, Nora Creina (A63562)
- 7. detail of lines of cystocarps at margins of flat branches (A60797)