forked

## Techniques needed and shape

Classification
\*Descriptive name
Features



## **Occurrences**

Usual Habitat Special requirements



**Similar Species** 

## Phylum: Rhodophyta; Order: Gigartinales; Family: Phyllophoraceae delicate blistered fronds

1. plants 10-40mm tall consist of *wiry*, branched stalks (stipes) and narrow, delicate redbrown or pink *blades*, often forked, about 30mm long

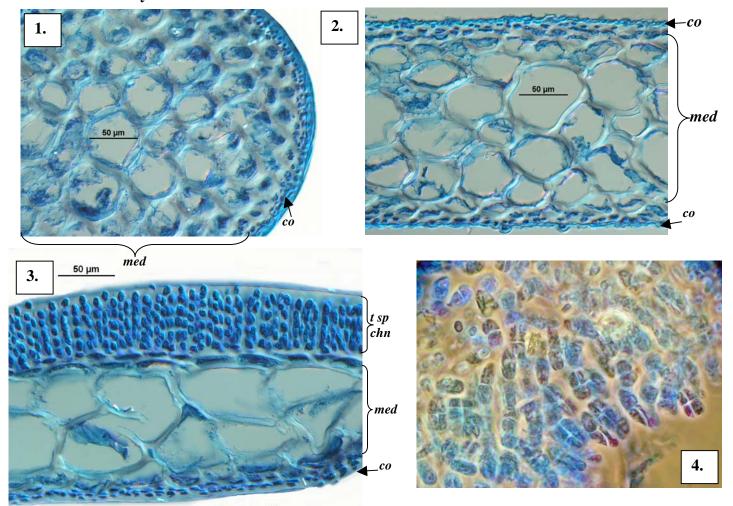
AN INTRODUCED OR ADVENTIVE

**SPECIES** 

- 2. sporangial clusters (sori) are blister-like, produced and released leaving scars successively in bands across the blades upwards towards the blade tip from the Mediterranean, Europe, Britain and S. Africa. In Australia, from N Spencer Gulf. S Australia, Victoria, SE Tasmania and Port Hacking, NSW plants with sponge basally are often found under jetties in shade or on molluscs at depth
- cut a cross section to find *large*, *closely* packed, equal-sided (parenchymatous) cells in the core (medulla) and outer (cortex) layers of several rows of *small* cells facing outwards
- 2. if possible, find sporangial plants with bands of raised "blisters". Cut a cross section to find chains of tetrasporangia, divided in a cross (cruciate) pattern when mature if wiry fronds are not present the fronds superficially look like Stenogramme, but Stenogramme has scattered patches of tetrasporangial clusters (sori)

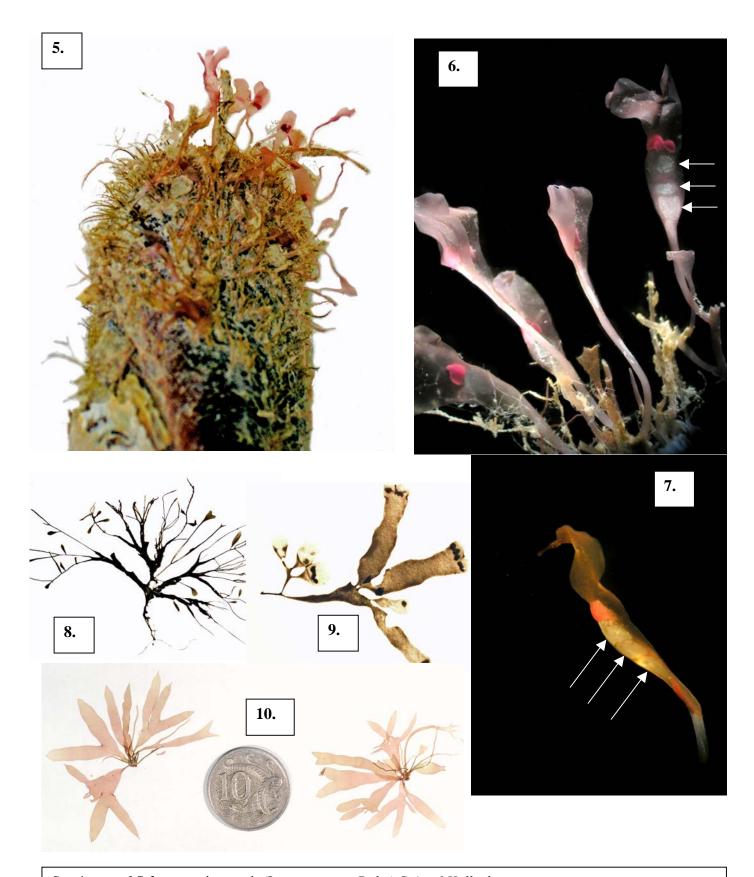
**Description in the Benthic Flora** Part IIIA, pages 262–264

## **Details of Anatomy**



Cross sections of Schottera nicaeensis stained blue and viewed microscopically

- 1. a stalk (stipe) with core (medulla, med) of equal-sided cells and outer layer (cortex, co) of small outwardly facing cells (A72653 slide 20588)
- 2. a blade (A72653 slide 20587)
- 3. a blade with a sporangial pustule (sorus) of tetrasporangial chains (t sp chn) (A72653 slide 20588)
- 4. extruded tetrasporangia some showing cross-shaped (cruciate) division (A60173 slide 11543)



Specimens of Schottera nicaeensis (Lamouroux ex Duby) Guiry & Hollenberg

- 5, 6, 7. enlargements of specimens growing between the hairs of the mussel, *Trichomya*, 24m deep at Stony Point, N of Whyalla, S Australia (A72635), showing the delicate blades, prominent red sporangial masses (sori) and pale scars of extruded sori (arrowed)
- 8, 9. two magnifications of pressed specimens with more prominent stalks and proliferating blades found in late summer, 5-7m deep on mussels at Port Phillip Bay, Victoria (A39482)
- 10. specimens with more forked blades and proliferations possibly a result of damage attached to floating seagrass (Amphibolis) Glenelg, S Australia (A61719)