Caulerpa scalpelliformis
(R. Brown ex Turner) C. Agardh

Techniques needed and plant shape

Classification
Phylum: Chlorophyta; Order: Bryopsidales; Family: Caulerpaceae

*Descriptive name
scalpel caulerpa; § serrated caulerpa

Features
1. plant dark green, 40-200mm tall
2. upright branches arise from a slender, naked runner
3. ultimate branches (ramuli) flat, widest where they attach, almost touching at the base, alternate along 2 sides of upright branches

Variations
slender (calm water) and robust (rough water) forms exist. Robust forms have broad, short ramuli

Special requirements
1. ultimate flat branches (ramuli) are 2-4mm long and 1-5mm across
2. view the scalpel-shaped ramuli (curved on both sides) ending abruptly in a sharp point

Occurrences
from near Perth, W. Australia to Victoria and Tasmania

Usual Habitat
in shallow water

Similar Species
1. calm water forms approach Caulerpa distichophylla, but this species has ramuli that arise oppositely along the axes
2. pieces may superficially look like Caulerpa ellistoniae, but that species has axes that branch several times over, and the ramuli are straight on the bottom edge, with no separate terminal point

Description in the Benthic Flora
Part I, pages 257-259

Details of Anatomy

Magnified views of preserved (bleached) and colourised specimens of Caulerpa scalpelliformis.
1. tip of an upright branch (axis) of a rough water form, showing the flat, broad mid-rib and alternating broad, flat, curved ramuli (A13423)
2. an upright branch showing the variable distance apart of narrower alternating ramuli of this calm water form (A22563)
3. tip of an ultimate branch (ramulus), ending in an abrupt point, characteristic of the species (A13423)
4. detail of an axis, showing the ramuli almost touching at the base (A13423)

* Descriptive names are inventions to aid identification, and are not commonly used
§ name used in Edgar, G. Australian Marine Life, 2nd Ed. (2008)
“Algae Revealed” R N Baldock, S Australian State Herbarium, August 2005
Two magnifications of *Caulerpa scalpelliformis* (R. Brown ex Turner) C. Agardh (A46806), a narrow, calm water form from Coffin Bay, S. Australia

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