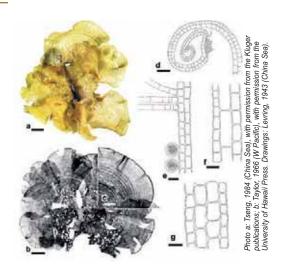
Padina boryana Thivy

Relevant synonyms Padina commersonii Bory de Saint-Vincent Padina tenuis Bory

 a. Habit. b. Dried specimen. c. Detail of fertile blade. d. Longitudinal section of apex.
e. Longitudinal section through sporangial sorus and hair lines.
f, g. Longitudinal sections.
Bars: a, b = 1 cm; c = 5 mm; d = 140 μm; e-g = 45 μm.

Short description

Medium (to 20 cm high), fanshaped, 2 layers of cells throughout except the basal portion (3-4 layers); growing margin inrolled; concentric



lines of hair obvious on one surface and rudimentary or absent on the other; external calcification very slight, sporangial sori, non-indusiate, adjacent to each hair band and not separated from each other by a sterile zone.

Distinguishing characteristics

The blade with 2 layers of cells, the non-indusiate sporangial sori, and the absence of sterile zones are distinctive; confusion possible with other fanshaped Dictyotales occurring in the Mediterranean:

- *Padina boergesenii* Allender & Kraft: 3 layers of cells; one layer usually taller than the two others in cross-section, slight calcification; sporangial sori non-indusiate; sterile zones present;

- *Padina ditristromatica* Ni-Ni-Win & H.Kawai: 2-3 layers of cells, calcification heavier, sporangial sori indusiate;

- *Padina pavonica* (Linnaeus) Thivy: 3-4 layers of cells; the central layer usually taller than the cortical ones in cross-section; calcification heavier; sporangial sori indusiate;

- *Padina pavonicoides* Ni-Ni-Win & H.Kawai: 3 layers of cells (2 only at the upper margin); no or light calcification; sporangial sori indusiate;

- Spatoglossum variabile Figari & De Notaris and Stypopodium schimperi (Kützing) Verlaque & Boudouresque: growing margin flat, calcification absent.

CIESM Atlas of Exotic Macrophytes in the Mediterranean Sea

Biology / Ecology / Habitat

Shallow subtidal communities; annual (spring - autumn).

Distribution

Worldwide: Pacific Islands, described from Tonga Islands, (Taylor, 1966), Samoan Archipelago, French Polynesia; north-western Pacific, Japan, China, Vietnam; Indian Ocean, widely distributed; eastern Atlantic, São Tomé. **Mediterranean**: recorded first in 1974 from Libya (Nizamuddin, 1981, as *P. tenuis*); successively recorded in Egypt (Aleem, 1993, as *P. tenuis*). We consider that the list of records from other Mediterranean countries in Nizamuddin (1981, as *P. tenuis*) is doubtful.

Mode of introduction

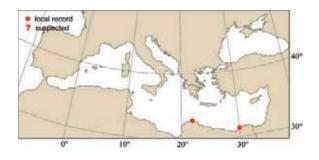
Via the Suez Canal.

Establishment

Well established.

Importance to humans

None.



1st Mediterranean record Libya, 1981 [1974].

Key references

• Aleem A.A., 1993. Marine algae of Alexandria. pp.135. Alexandria: Privately published.

- Levring T., 1943. Meeresalgen von Singapore und Celebes. Meddelanden från Göteborgs Botaniska, Trädgård 15, 175-179.
- Nizamuddin M., 1981. Contribution to the marine algae of Libya. Dictyotales. *Bibliotheca Phycologica*, 54: 1-122, XXXIX plates, 1 map.
- Taylor W.R., 1966. Records of Asian and western Pacific marine algae, particularly algae from Indonesia
- and the Philippines. Pacific Science, 20: 342-359, 2 figs.
- Tseng C.K., 1984. Common seaweeds of China. Science Press, Beijing. Kugler Publications, 316 p.

CIESM Atlas of Exotic Macrophytes in the Mediterranean Sea

