# Branching bryozoan

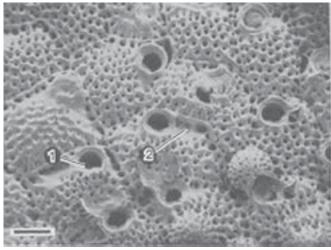
Phylum Ectoprocta
Class Gymnolaemata
Order Cheilostomata
Family Schizoporellidae



Photo J. Hoover

## **DESCRIPTION**

This heavily calcified encrusting bryozoan is typically dark brick red with orange-red growing margins. It assumes the shape of whatever it overgrows. This species may form heavy knobby incrustations on flexible surfaces such as algae or worm tubes, turning them into solid, sometimes erect branching structures. The thickness of the growth is dependent upon the age of the colony. Multilaminar encrustations of 1 cm thick are common. The frontal surface of the zoecium (secreted exoskeleton housing of individual zooids) is porous with a wide semicircular aperture and proximal sinus. Also with single avicularia on right or left side of aperture sinus.



SEM of *Schizoporella errata*, showing (1) aperture, and (2) avicularia (from Soule et al. 1987). © Hawaii Biological Survey 2001

## **H**ABITAT

As fouling in shallow water on hard substrates (pilings, hulls, coral rubble, etc.) in harbors and embayments. Occasionally found on the reef, especially in Kaneohe Bay.

#### DISTRIBUTION

#### HAWAIIAN ISLANDS

Throughout the main islands and Midway Atoll.

### NATIVE RANGE

Mediterranean

## PRESENT DISTRIBUTION

Probably worldwide in warm temperate-subtropical seas (reported from West Africa, Red Sea, Persian Gulf, South Australia, New Zealand, Hawaiian Islands, Pacific Coast of North America, East Coast North America through Caribbean to Brazil, and Mediterranean).

#### MECHANISM OF INTRODUCTION

Unintentional, as fouling on ships' hulls

#### **MPACT**

Fouling organism. Ecological impact unstudied, but observations suggest some competition for space with other fouling invertebrates.

## **E**COLOGY

## **Feeding**

The bryozoan is a suspension feeder. It has a retractable U-shaped crown of tentacles (lophophore) which bear cilia that create a current, bringing food particles toward the animal. Particles are then guided into the mouth by action of the tentacles and cilia.

## Reproduction

Each bryozoan colony begins from a single, sexually produced, primary zooid. This zooid undergoes asexual budding to produce a group of daughter cells, which themselves form buds, and so on. Most bryozoans are hermaphroditic, each zooid capable of producing sperm and eggs. Sperm is released into the coelom and the fertilized eggs are retained and brooded for a time before being released.

## **R**EMARKS

Edmondson (1933) was the first to remark upon an "undetermined orange species" forming encrustiting and branching colonies in Pearl Harbor. *S. errata* is now a common fouling species, found throughout the main Islands.

## REFERENCES

Soule, J.D., D.F. Soule, and H.W.Chaney. 1987. Phylum Ectoprocta. *in* Reef and Shore Fauna of Hawaii. Section 2: Platyhelminthes through Phoronida, and Section 3: Sipuncula through Annelida, D.M. Devaney and L.G. Eldredge (eds). Bishop Mus. Spec. Pub. 64(2 and 3): 83-166.

Edmonson, C.H. 1933. Reef and Shore Fauna of Hawaii. B.P. Bishop Mus. Spec. Pub. 22.