GUIDE TO MARINE INVADERS IN RI COASTAL WATERS

Diplosoma listerianum compound sea squirt, diplosoma tunicate

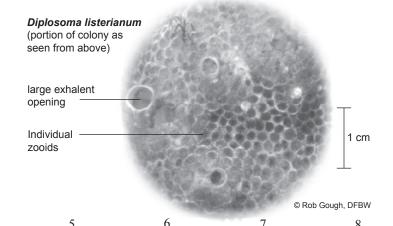


HABITAT PREFERENCE

- Grows subtidally, attached to algae, eelgrass, molluscs, and nearly any hard, submerged surface
- Typically found in shallow water, but may occur at depths up to 250 ft (80 m)

PHYSICAL DESCRIPTION

- Colonial tunicate with small, cylindrical zooids (0.2 cm long)
- Grows in thin, flat, soft, gelatinous sheets on a variety of surfaces
- Milky, translucent appearance, often with white or grey spots
- Individual animals (zooids) are grouped around common large, exhalent openings (atriopore) within the colony
- Colony can grow up to 8 in (20 cm)



GUIDE TO MARINE INVADERS IN RI COASTAL WATERS

Diplosoma listerianum compound sea squirt, diplosoma tunicate

INVASION STATUS & ECOLOGICAL CONCERNS

Diplosoma listerianum, likely a native of Europe, was most likely introduced to the Gulf of Maine as a result of its tendency to grow on the hulls of ships, hitchhiking to new locations as these vessels travel. This species can now be found from New Hampshire to Connecticut.

Like other invasive species that grow on both living and non-living surfaces, D. listerianum can alter a variety of habitats and may foul submerged pipes, ship hulls, docks, pilings, and other structures. On living organisms such as algae, D. listerianum colonies can block light and limit nutrient absorption, weaking their hosts. This species may also outcompete slower growing native

SIMILAR SPECIES

Ascidiella aspersa

The translucent, milky colonies of D. listerianum may cause observers to mistake it for Ascidiella aspersa, an invasive, solitary tunicate. However, a closer examination will reveal that A. aspersa are firm, bumpy, oval structures, rather than the thin



Ascidiella aspersa

encrusting layers formed by D. listerianum colonies.

Botryllus schlosseri

The sheet-like, gelatinous colonies of D. listerianum may also be mistaken for those of other invasive tunicates. including Botryllus schlosseri (right). However, B. schlosseri zooids are arranged in a star-like pattern, while D. listerianum zooids are randomly positioned around large exhalent openings. In addition, D. listerianum is



Botrvllus schlosseri

mostly translucent, vs. the light and dark patterning of B. schlosseri.

This card is adapted from an original series produced by Salem Sound Coastwatch (www.salemsound.org). The original series was funded by the MA EOEEA Office of Coastal Zone Management with funding from the U.S.F.W.S. For more information please visit www.mass.gov/czm/invasives/monitor/reporting.htm. The production of this adapted card was funded by the RI Coastal Resources Management Council with funding from the U.S. Fish & Wildlife Service. To report findings please email kcute@crmc.ri.gov or call (401) 783-7772 or (401) 783-3370.

