

GUIDE TO MARINE INVADERS IN RI COASTAL WATERS

Diadumene lineata orange-striped anemone



Robert Buchsbaum



Andrew N. Cohen

D. lineata with tentacles extended

D. lineata with tentacles retracted

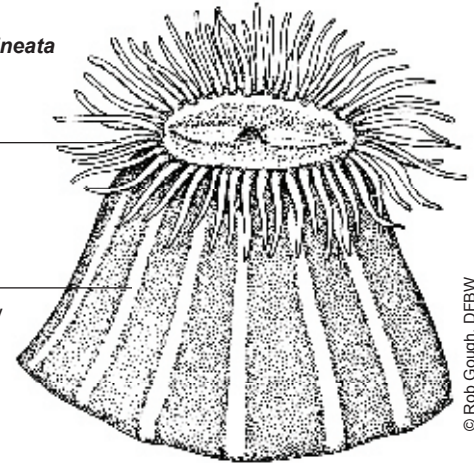
PHYSICAL DESCRIPTION

- Small anemone with crown of 50 - 100 tentacles
- Cylindrical light greenish to brown body, typically with thin, vertical, orange or tan stripes
- Grows up to 1.5 in (< 4 cm)

Diadumene lineata

50 - 100
tentacles

orange or tan
stripes up
greenish body



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HABITAT PREFERENCE

- Found attached to firm surfaces in shallow, subtidal waters, including tidepools, docks, and other protected areas
- Often associated with mussels or oysters
- May occur in brackish waters
- Occasionally found in mud or on vegetation in marshes and other calm waters.

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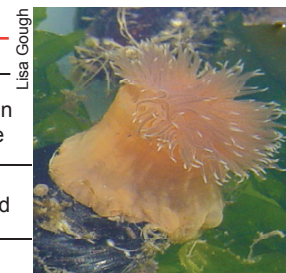
INVASION STATUS & ECOLOGICAL CONCERNS

Diadumene lineata is native to the Western Pacific (Japan, China, Hong Kong), but has a current distribution that also includes Indonesia, New Zealand, and both the Pacific and Atlantic coasts of North America. On Atlantic Ocean shores, this species can be found from Massachusetts to Florida. *D. lineata* was likely spread unintentionally, via fouling on ship hulls and/or by commercial shellfish.

The ecological impact of this species is not well understood. However, it is known as a fouling organism and can negatively impact the structures and organisms on which it grows. For example, mussels and oysters may have difficulty feeding and growing when covered by *D. lineata* colonies. In addition, *D. lineata* shows an ability to tolerate a wide range of abiotic conditions (e.g. temperature and salinity), perhaps tipping the scales in this species' favor in the competition with native anemones for available habitats. This species, like other anemones, can spread rather quickly as a result of its ability to reproduce sexually via external fertilization and asexually by simply splitting themselves in half.

SIMILAR SPECIES

	Body Column	Tentacles	Max. Size	Notes
<i>Metridium senile</i> frilled anemone (right) native	Variable color; often white, cream, pink; no stripes	100 to 1000 tiny tentacles; form bushy lobes (adults)	18 in (46 cm)	Largest and most common anemone in Gulf of Maine
<i>Fagesia lineata</i> lined anemone native	Slender, white to brownish body; pale vertical stripes	40 tentacles; positioned in 3 crown-like rings	1.25 in (3 cm)	Prefers steady, swift current amid rocks or sand
<i>Sagartia elegans</i> purple anemone invasive	Tan to brown body color; no stripes	Up to 200 purple or pink tentacles	8 in. (20 cm)	Introduced from Europe, Prefers calm waters



Young *Metridium senile*

This card is adapted from an original series produced by Salem Sound Coastwatch (www.salemsound.org). The original series was funded by the MA EOEPA 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.