



## Boccardia proboscidea

### Californian Polydroid

#### Threat Scores

1. Ecological Impact
  - Causes economic losses in aquaculture; negatively affects sediment chemistry
2. Invasive Potential
  - Pan-Pacific distribution including the west coast of North America, Japan, and southeastern Australia
  - This distribution is attributed in part to the production of early and late larval stages that are widely dispersed by ocean currents
3. Geographic Extent
  - Regionally pervasive
4. Management Difficulty
  - Copper compounds suggested for management
  - No known successful eradications once established



#### Geography and Habitat

1. Native: Pan-Pacific region
2. Introduced: Hawai'i
3. Habitats
  - Marine, intertidal zones, estuaries/bays, aquaculture
  - Found on sandy beaches, intertidal mudflats, sea grass beds and soft rock
  - Also found infesting oysters in aquaculture
  - Highly tolerant of changes in salinity and temperature

#### Invasion Pathways

1. Hull/Surface fouling
2. Ballast water and sediments
3. Natural spread
4. Stocking in open water - *Ostrea edulis* oyster shipments

#### Non-Native Locations

1. 152- Hawaiian Islands

#### Sources

1. Molnar, Jennifer et al. 2008. Assessing the global threat of invasive species to marine biodiversity. *Frontiers in ecology and the environment*. Vol. 6, No. 9, pp. 485-492.
2. <http://conserveonline.org/workspaces/global.invasive.assessment>
3. <http://www.annelida.net/nz/Polychaeta/Family/Spionidae/boccardia-proboscidea.htm>