



## Heterosiphonia japonica

### Red Algae

#### General

- Bushy, deep red-brown fronds, to 600 mm long, arising from a basal disc

#### Threat scores

##### 1. Ecological impact

- *H. japonica* grows rapidly and spreads over large areas, and may therefore displace other algal species in particular locations
- It also attaches to other algae and to benthic animals

##### 2. Invasive potential

- Given its capacity for rapid growth at such widely varying temperatures and salinities, and its effective propagation by means of fragmentation, there is reason to assume that *H. japonica* could continue its expansion into the Kattegat, and possibly into the southern Baltic
- It probably spreads by shedding its small, monosiphonous pseudolaterals
- These fragments then give rise to new plants
- The ability to survive in darkness may be a critical factor for the long-distance dispersal of red algal propagules in ballast water

##### 3. Geographic extent

- Locally pervasive

##### 4. Management Difficulty

- No known eradication controls in marine environment



#### Geography and Habitat

##### 1. Origin: Japan and Korea

##### 2. Introduced: California

##### 3. Habitat

- Marine, aquaculture, benthic
- Preference for rocks & other hard surfaces, but also spreads in areas w/other benthic substrata
- Thrives in areas relatively well sheltered from waves
- Attaches to algae and other animals, copes with freezing to tropical temps
- Requires high salinity

#### Invasion Pathways

##### 1. Ballast &/or Fouling

##### 2. Natural spread - fragmentation

##### 3. Stocking in open water - oyster culture

#### Non native locations

##### 1. 59- S. California Bight

## Sources

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3. [http://www.seaweed.ie/descriptions/Heterosiphonia\\_japonica.html](http://www.seaweed.ie/descriptions/Heterosiphonia_japonica.html)
4. [http://www.algaebase.org/search/species/detail/?species\\_id=4722](http://www.algaebase.org/search/species/detail/?species_id=4722)