

SPECIES INFORMATION SHEET

Clelandella miliaris

English name: –	Scientific name: <i>Clelandella miliaris</i>	
Taxonomical group: Class: Gastropoda Order: Vetigastropoda Family: Trochidae	Species authority: Brocchi, 1814	
Subspecies, Variations, Synonyms: <i>Jujubinus miliaris</i> Brocchi, 1814 <i>Trochus miliaris</i> Brocchi, 1814	Generation length: –	
Past and current threats (Habitats Directive article 17 codes): Eutrophication (H01.05)	Future threats (Habitats Directive article 17 codes): Eutrophication (H01.05)	
IUCN Criteria: B1ab(i,iii)	HELCOM Red List Category:	VU Vulnerable
Global / European IUCN Red List Category NE/NE	Habitats Directive: –	
Protection and Red List status in HELCOM countries: Denmark –/–, Estonia –/–, Finland –/–, Germany –/–, Latvia –/–, Lithuania –/–, Poland –/–, Russia –/–, Sweden –/– VU		

Distribution and status in the Baltic Sea region

The known distribution of *C. miliaris* within the HELCOM area is along the Swedish coasts of the Kattegat and the shallow offshore banks in the Kattegat. It is unclear whether the species distribution includes the Danish belts. Outside the HELCOM area the species occurs in the Skagerrak and the northern North Sea. A comparison between historical and present Swedish data indicates a sharp decline in distribution, both in the Skagerrak and the coastal Kattegat. However, the offshore bank populations seem relatively stable.

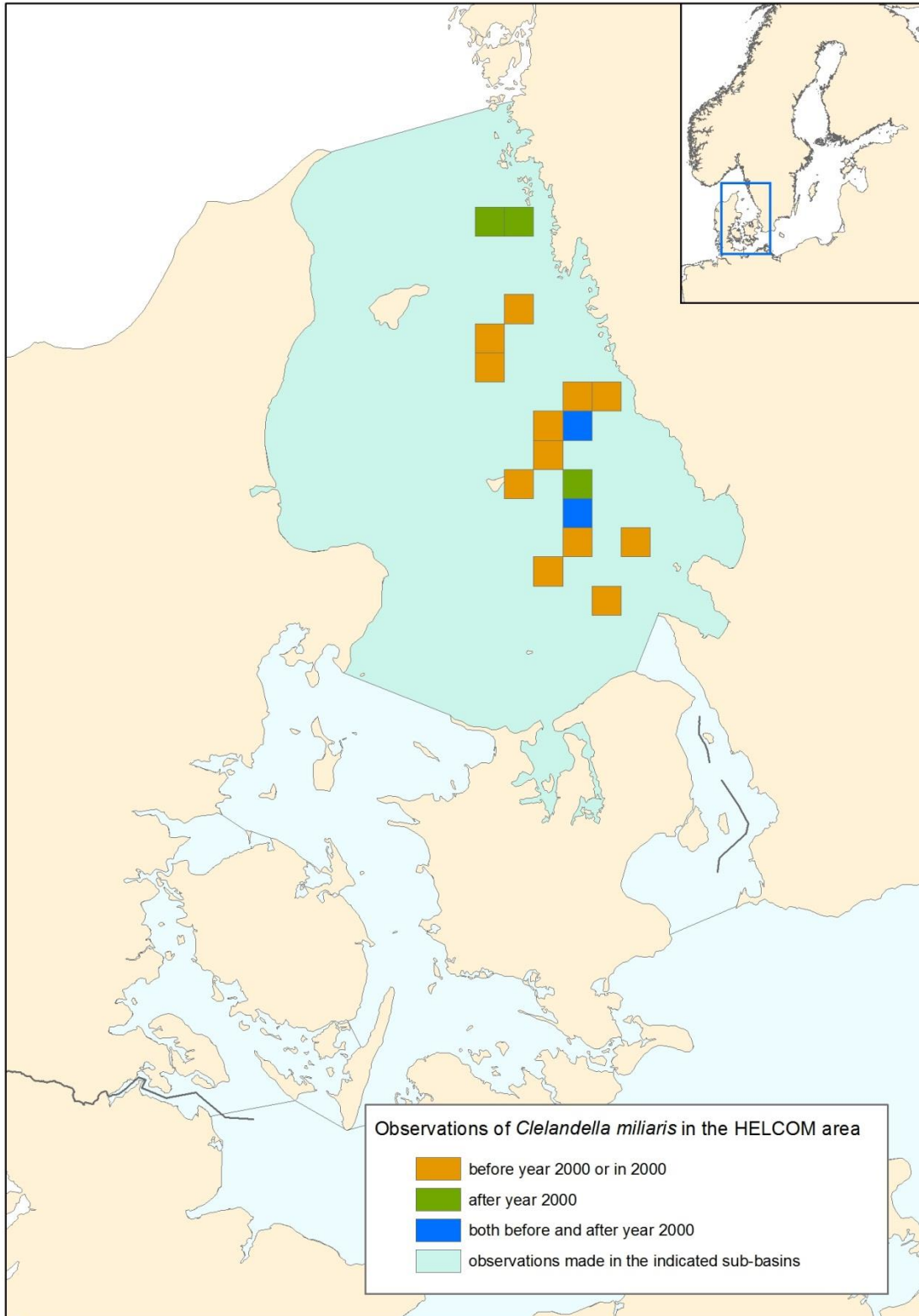
Outside the HELCOM area, the species is distributed from the Mediterranean to north to Norway. It is more common in the northern part of its range, and it is absent from the eastern basin of the English Channel.

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Distribution Map

The records of species received from the species database of the Swedish Species Information Centre (Artportalen).



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Habitat and ecology

Clelandella miliaris reaches 12–18 mm in length. The shell is sharply pointed, forming a nearly regular cone. It lives on stone or gravel bottoms, and has been found in depths of 30–150 m. Little is known about the species ecology, but the larvae probably have direct development, which limits the species ability to disperse and recolonize.

Description of major threats

The habitat of *Clelandella miliaris* has probably decreased in quality, especially in coastal areas, due to the severe eutrophication in the Kattegat and surrounding areas.-

Assessment justification

Only limited data are available. These indicate a sharp decrease in distribution within the Kattegat, primarily in coastal areas. The decrease is probably caused by eutrophication, which reduces the quality of the coastal habitats. Number of locations is estimated to be less than 10. The species is thus redlisted as Vulnerable (VU) B1ab(i,iii).

Recommendations for actions to conserve the species

In general the negative effects of eutrophication on marine biotopes need to be reduced. As stone and gravel bottoms are sensitive to sedimentation, they need to be mapped and when possible protected. More information on the species distribution and ecology is needed.

Common names

Denmark: stor topsnegl, Estonia: –, Finland: –, Germany: –, Latvia: –, Lithuania: –, Poland: –, Russia: –, Sweden: granulerad toppsnäcka

References

- Bjelke, U., Gärdenfors, U., Karlsson, A., Agrenius, S., Berggren, M., Cedhagen, T., Hansson, H. G., Kautsky, H., Lundberg, S., Lundin, K., Lundälv, T., von Proschwitz, T., Schander, C. & Smith, S. 2010. Blötdjur – Molluscs. Mollusca. In Gärdenfors, U. (ed.) Rödlistade arter i Sverige 2010 – The 2010 Red List of Swedish Species. ArtDatabanken, SLU, Uppsala. P. 495–505. Red List categories available also at <http://www.artfakta.se/GetSpecies.aspx?SearchType=Advanced>
- Graham, A.F.R.S. 1988. Molluscs: Prosobranch and Pyramidellid Gastropods. Synopses of the British Fauna. Linnean Society of London.
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- Marine Species Identification Portal. Available at http://species-identification.org/species.php?species_group=mollusca&id=613
- Swedish Species Gateway. Swedish Species Information Centre and Swedish Environmental Protection Agency. Available at www.artportalen.se.
- World Register of Marine Species WoRMS. Available at <http://www.marinespecies.org/aphia.php?p=taxdetails&id=141774>