

## ALERT LIST

This is a list of alien plant and animal species that have not yet been recorded in Swedish waters, but which are living close to our borders or are considered to be very invasive. It has been compiled from observations by Swedish and international marine scientists and is continuously updated as new information becomes available. An up-to-date version of the list is always posted on the site, which also features fact sheets on some of the species listed. The factsheets are published in Swedish and will gradually also be made available in English.

This website is a joint information channel for the three regional Information Offices along the Swedish coast: the Skagerrak/Kattegat area on the west coast of Sweden, the Baltic Sea proper, and the Gulf of Bothnia. The work of the Information Offices is commissioned by the Swedish Environmental Protection Agency and the Swedish Agency for Marine and Water Management. The website has been produced in close collaboration with the Swedish AquAliens programme, which ended in January 2008.

### Parasitic protozoans

*Bonamia ostreae* V

### Microalgae

#### DINOFLLAGELLATES

*Alexandrium leei* V

*Alexandrium margalefi* V

*Dinophysis sacculus* V !

*Pfiesteria piscicida* V ! 1

#### SILICOFLAGELLATES

*Pseudochattonella veruculosa* V !

### Macroalgae

#### BROWN ALGAE

[\*Undaria pinnatifida\*](#) (Wakame, Japanese kelp, Asian kelp) V !

#### RED ALGAE

*Antithamnion nipponicum* V

*Antithamnionella spirographidis* V

*Antithamnionella ternifolia* V

*Polysiphonia senticulosa* V

#### GREEN ALGAE

*Ulva australis* V 2

### Invertebrates

#### CNIDARIANS

*Bougainvillia rugosa* V

*Diadumene lineata* (orange-striped sea anemone) V 3

*Maeotias marginata* (Black Sea jellyfish) Ö

*Nemopsis bachei* V

#### THORNY-HEADED WORMS

*Paratenuisentis ambiguus* Ö

#### ANNELID WORMS

Polychaetes

*Bispira polyomna* n. sp. V

*Boccardia redeki* Ö 4

*Boccardia proboscidea* V

[\*Ficopomatus enigmaticus\*](#) (Australian tubeworm) V !

*Hypania invalida* ÖL

*Marphysa sanguinea* V 5

*Neodexiospira brasiliensis* V

*Polydora hoplura* V

### **Oligochaetes**

*Branchiura sowerbyi* ÖL 6

*Potamothrix moldaviensis* ÖL 7

*Tuboficoides heterochaetus* V

### **ARTHROPODS**

#### **Water fleas**

*Cornigerius maeoticus* Ö

#### **Barnacles**

*Amphibalanus amphitrite* (striped barnacle) V

*Amphibalanus reticulatus* V

*Amphibalanus variegatus* V

*Austronominius modestus* (Australian barnacle, small barnacle) V 8

*Balanus trigonus* V

*Megabalanus coccopoma* (titan acorn barnacle) V

*Megabalanus tintinnabulum* V

#### **Copepods**

*Acartia (Acartiura) omorii* V

*Ameira divagans* Ö

*Eurytemora americana* V

*Mytilicola intestinalis* V

*Pseudodiaptomus marinus*

V

#### **Malacostraca**

##### **Mysids**

*Limnomysis benedeni* ÖL

*Paramysis intermedia* Ö

*Paramysis lacustris* ÖL

##### **Amphipods**

[\*Chelicorophium curvispinum\*](#)(Caspian mud shrimp) ÖL, V 9

*Dikerogammarus haemobaphes* ÖL

[\*Dikerogammarus villosus\*](#) (killer shrimp) ÖL !

*Echinogammarus ischnus* ÖL

*Echinogammarus warpachowskyi* ÖL

*Gmelinoides fasciatus* Ö

*Incisocalliope aestuarius* V

*Melita nitida* Ö

[\*Monocorophium sextonae\*](#) V 10

*Obessogammarus crassus* ÖL

*Orchestia cavimana* (sand hopper) Ö

*Pontogammarus robustoides* ÖL !

#### **Isopds**

*Synidotea laticauda* V 11

#### **Tanaids**

*Sinelobus stanfordi* VE

#### **Cumaceans**

*Pseudocuma (Stenocuma) graciloides* Ö

#### **Decapods (crabs, lobsters and shrimps)**

[\*Callinectes sapidus\*](#) (blue crab) V

*Hemigrapsus sanguineus* (Asian shore crab, Japanese shore crab) V !

*Hemigrapsus takanoi* (brush-clawed shore crab) V

*Orconectes limosus* (spiny-cheek crayfish) ÖL

*Palaemon elegans* Ö 12

*Palaemon macrodactylus* (oriental shrimp) V

*Paralithodes camtschaticus* (red king crab) !

[\*Rhithropanopeus harrisi\*](#) (white-fingered mud crab, Harris mud crab, Zuiderzee crab, estuarine mud crab, dwarf crab) Ö, V !

## **MOLLUSCS**

### **Bivales**

*Corbicula fluminea* (Asian clam, prosperity clam) VE !

*Dreissena bugensis* (quagga mussel) Ö !

*Mercenaria mercenaria* (northern quahog, hard clam, cherrystone-) V

*Rangia cuneata* (common rangia, Atlantic rangia) V !

*Ruditapes philippinarum* (Japanese carpet shell, Manila clam) V

### **Snails**

*Lithoglyphus naticoides* (gravel snail) ÖL

*Ocenebrellus inornatus* (Japanese oyster drill) V ! 13

*Rapana venosa* (veined rapa whelk, Asian rapa whelk, rapa whelk) V !

*Urosalpinx cinerea* (American oyster drill) V !

## **BRYOZOANS**

*Bugula simplex* V

*Bugula stolonifera* V

*Fenestrulina delicia* V

*Tricellaria inopinata* V !

*Watersipora subtorquata* V !

## **UROCHORDATA**

### **Ascidians**

*Botrylloides violaceus* (orange sheath tunicate) V

*Corella eumyota* V

*Didemnum vexillum* (Whangamata sea squirt) V

[\*Styela clava\*](#) (leathery sea squirt, rough sea squirt, Asian tunicate, club tunicate) V !

## **Vertebrates**

### **CRANIATA**

#### **Bony fishes**

*Gobiosoma bosc* V

[\*Carassius gibelio\*](#) (Prussian carp, gibel, golden carp) Ö 14

*Hypophthalmichthys nobilis* (bighead carp) Ö, V

*Lepomis gibbosus* (pumpkinseed, pumpkinseed sunfish) ÖL !

*Micropogonias undulatus* (Atlantic croaker) V

*Neogobius fluviatilis* (monkey goby) ÖL

*Neogobius gymnotrachelus* (racer goby) ÖL

*Perccottus glenii* (Chinese sleeper, Amur sleeper) ÖL

*Proterorhinus semilunaris* (western tubenose goby) ÖL 15

Key:

**V** The species has been recorded in the North Sea area close to the Swedish part of the Skagerrak/Kattegat area (Västerhavet).

**VE** The species has been recorded in the North Sea area but limited to freshwater and estuaries.

**Ö** The species has been recorded on the other side of the Baltic Sea.

**ÖL** The species has been recorded on the other side of the Baltic Sea, but has a limited distribution in lagoons and freshwater influenced estuaries.

**!** The species is according to international species lists (NOBANIS, DAISIE, GISD, IOC) considered to be very invasive. It does not necessarily mean that the species will be invasive in Swedish waters

1. One of the most feared species internationally. Not yet observed in Swedish areas, but considerable risk of introduction (ballast water discharge, or currents).
2. Also known as *Ulva pertusa*
3. Also known as *Haliplanella lineata*
4. Also known as *Polydora redeki*
5. Can be a cryptic cosmopolite
6. Occurs in Lake Mälaren
7. Occurs in Lake Mälaren, Lake Roxen and Lake Algunnen
8. Also known as *Elminius modestus*
9. Also known as *Corophium curvispinum*
10. Also known as *Corophium sextonae*
11. Earlier misidentified as *Synidotea laevidorsalis*
12. Probably a genetic variant from the Mediterranean-Black Sea introduced by man
13. Also known as *Ceratostoma inornatum*
14. Found in freshwater on Gotland and in the County of Kalmar
15. Earlier called *P. marmoratus* which is considered a marine species