



List of non-native species in the marine subregions : **Greater North Sea** and **Bay of Biscay and the Iberian Coast**

What is the Marine Strategy Framework Directive (MSFD) ?

Adopted on 2008, the Marine Directive aims to achieve Good Environmental Status (GES) of the EU's marine waters by 2020 and to protect the resource upon which marine-related economic and social activities depend.

To ensure the Good Environmental Status (GES), the establishment of a monitoring programme is required. And BioLit aims to contribute to the monitoring programme for the identified non-indigenous species.

Please, find the other non-native species ...

BioLit targets some « new immigrant species » (non-indigenous species) more accessible to a large public. But BioLit programme also focus on a wider range of the following non-native species that can be registered on www.biolit.fr website (« New immigrants action ») !



PHYLUM	TAXONS
CERCOZOA	<i>Bonamia ostreae</i> <i>Haplosporidium nelsoni</i>
FORAMINIFERA	<i>Quinqueloculina carinatastriata</i>
MYZOOZOA	<i>Alexandrium leei</i> <i>Alexandrium minutum</i> <i>Alexandrium taylori</i> <i>Gymnodinium catenatum</i> <i>Karenia mikimotoi</i> <i>Karenia papilionacea</i> <i>Neoceratium candelabrum</i> <i>Thecadinium yashimaense</i>



OCHROPHYTA

Coscinodiscus wailesii
Odontella sinensis
Pleurosigma simonsenii
Pseudo-nitzschia multistriata

CHLOROPHYTA

Codium fragile fragile
Kornmannia leptoderma
Ulva cf. fasciata
Ulva pertusa
Ulvaria obscura

HETEROKONTOPHYTA

Colpomenia peregrina
Fibrocapsa japonica
Pylaiella littoralis
Sargassum muticum
Undaria pinnatifida



RHODOPHYTA

Anotrichium furcellatum
Antithamnion densum
Antithamnionella spirographidis
Antithamnionella ternifolia
Asparagopsis armata
Bonnemaisonia hamifera
Caulacanthus ustulatus
Centroceras clavulatum
Colaonema codicola
Dasya sessilis
Gracilaria vermiculophylla
Grateloupia subpectinata
Grateloupia turuturu
Griffithsia corallinoides
Herposiphonia parca
Heterosiphonia japonica
Hypnea valentiae
Laurencia brongniartii
Lomentaria hakodatensis
Neosiphonia harveyi
Polyopes lancifolius
Pterosiphonia tanakae
Spongoclonium caribaeum



MAGNOLIOPHYTA

Spartina alterniflora
Spartina townsendii var. *anglica*
Spartina townsendii var. *townsendii*
Spartina versicolor

BRYOZOA

Bugula neritina
Bugula simplex
Bugula stolonifera
Caulibugula zanzibarensis
Fenestrulina delicia
Pacificincola perforata
Schizoporella unicornis
Tricellaria inopinata
Victorella pavida
Watersipora subtorquata

CTENOPHORA

Mnemiopsis leidyi

CNIDARIA

Aiptasia pulchella
Blackfordia virginica
Cordylophora caspia
Diadumene cincta
Diadumene lineata
Gonionemus vertens
Maeotias marginata
Nemopsis bachei



PORIFERA

Celtodoryx ciocalyptoides

NEMATODA

Anguillicoloides crassus

PLATYHELMINTHES

Koinostylochus ostreophagus

Pseudodactylogyrus anguillae

ARTHROPODA

Amphipoda

Caprella mutica

Monocorophium sextonae

Cirripedia

Amphibalanus amphitrite

Amphibalanus eburneus

Amphibalanus improvisus

Balanus albicostatus

Balanus trigonus

Elminius modestus

Megabalanus coccopoma

Megabalanus tintinnabulum

Solidobalanus fallax

Copepoda

Acartia (Acartiura) omorii

Acartia (Acanthacartia) tonsa

Eurytemora americana

Myicola ostreae

Mytilicola intestinalis

Mytilicola orientalis

Pseudomyicola spinosus



Decapoda	<i>Brachynotus sexdentatus</i>
	<i>Callinectes sapidus</i>
	<i>Hemigrapsus sanguineus</i>
	<i>Hemigrapsus takanoi</i>
	<i>Homarus americanus</i>
	<i>Marsupenaeus japonicus</i>
Isopoda	<i>Palaemon macrodactylus</i>
	<i>Paranthura japonica</i>
	<i>Synidotea laticauda</i>
Stomatopoda	<i>Odontodactylus scyllarus</i>



ANNELIDA

Boccardia polybranchia
Boccardia semibranchiata
Clymenella torquata
Desdemonia ornata
Ficopomatus enigmaticus
Goniadella gracilis
Hydroides dianthus
Hydroides elegans
Hydroides ezoensis
Marenzelleria viridis
Neodexiospira brasiliensis
Pileolaria berkeleyana
Streblospio benedicti

MOLLUSCA

Bivalvia *Anomia chinensis*
Arcuatula senhousia
Crassostrea gigas
Ensis directus
Mercenaria mercenaria
Mizuhopecten yessoensis
Mya arenaria
Petricolaria pholadiformis
Ruditapes philippinarum

Gastropoda *Corambe obscura*
Crepidula fornicata
Cyclope neritea
Fusinus rostratus



Gibbula albida
Hexaplex (Trunculariopsis) trunculus
Ocenebra inornata
Potamopyrgus antipodarum
Rapana venosa

Urosalpinx cinerea

CHORDATA

Actinopterygii *Acipenser baerii baerii*
Onchorynchus mykiss
Ascidiacea *Botrylloides violaceus*
Corella eumyota
Didemnum vexillum
Molgula manhattensis
Perophora japonica
Styela clava