



# List of non-native species in the marine subregions : **Western Mediterranean Sea**

## 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](http://www.biolit.fr) website (« New immigrants action ») !



## DIVERS PROTOZOAIRES

*Bonamia ostreae*  
*Marteilia refringens*  
*Perkinsus olseni*  
*Photobacterium damsela*

## FORAMINIFERA

*Cymbaloporetta plana*  
*Planogypsina acervalis*  
*Schackoinella imperatoria*  
*Sorites orbiculus*

## OCHROPHYTA

*Acrothrix gracilis*  
*Botryella cf. parva*  
*Chorda filum*  
*Chrysonephos lewisii*  
*Cladosiphon zosterae*  
*Colpomenia peregrina*  
*Desmarestia viridis*  
*Dictyota okamurae*  
*Fucus spiralis*  
*Halothrix lumbricalis*  
*Laminaria japonica*  
*Leathesia difformis*  
*Leathesia marina*  
*Microspongium tenuissimum*  
*Padina antillarum*  
*Padina boergesenii*  
*Padina boryana*  
*Punctaria tenuissima*  
*Pylaiella littoralis*  
*Saccharina japonica*  
*Sargassum muticum*  
*Scytosiphon dotyi*  
*Spatoglossum variable*  
*Sphaerotrichia firma*  
*Undaria pinnatifida*



## CHLOROPHYTA

*Caulerpa racemosa* var. *cylindracea*  
*Caulerpa taxifolia*  
*Cladophora hutchinsioides*  
*Codium fragile* subsp. *fragile*  
*Codium fragile* subsp. *tomentosoides*  
*Derbesia boergesenii*  
*Derbesia rhizophora*  
*Ulva fasciata*  
*Ulva ohnoi*  
*Ulva pertusa*  
*Ulvaria obscura*

## RHODOPHYTA

*Acanthophora nayadiformis*  
*Acrochaetium robustum*  
*Acrochaetium spathoglossi*  
*Acrochaetium subseriatum*  
*Acrothamnion preissii*  
*Agardhiella subulata*  
*Aglaothamnion feldmanniae*  
*Ahnfeltiopsis flabelliformis*  
*Anotrichium okamurae*  
*Antithamnion amphigeneum*  
*Antithamnion hubbsii*  
*Antithamnionella boergesenii*  
*Antithamnionella elegans*  
*Antithamnionella spirographidis*  
*Antithamnionella sublittoralis*  
*Antithamnionella ternifolia*



*Apoglossum gregarium*  
*Asparagopsis armata*  
*Asparagopsis taxiformis*  
*Bonnemaisonia hamifera*  
*Botryocladia madagascariensis*  
*Caulacanthus okamurae*  
*Ceramium bisporum*  
*Chondria coerulescens*  
*Chondria curvilineata*  
*Chondria pygmaea*  
*Chondrus giganteus f. flabellatus*  
*Chrysomenia wrightii*  
*Dasya sessilis*  
*Dasysiphonia sp.*  
*Galaxaura rugosa*  
*Ganonema farinosum*  
*Goniotrichopsis sublittoralis*  
*Grateloupia asiatica*  
*Grateloupia lanceolata*  
*Grateloupia luxurians*  
*Grateloupia minima*  
*Grateloupia patens*  
*Grateloupia subpectinata*  
*Grateloupia turuturu*  
*Griffithsia corallinoides*  
*Herposiphonia parca*  
*Hypnea cornuta*  
*Hypnea spinella*  
*Hypnea valentiae*



*Laurencia caduciramulosa*  
*Laurencia okamurae*  
*Lithophyllum yessoense*  
*Lomentaria flaccida*  
*Lomentaria hakodatensis*  
*Lophocladia lallemandii*  
*Nemalion vermiculare*  
*Neosiphonia harveyi*  
*Nitophyllum stellato-corticatum*  
*Osmundea oederi*  
*Pleonosporium caribaeum*  
*Plocamium secundatum*  
  
*Polysiphonia atlantica*  
*Polysiphonia fucoides*  
*Polysiphonia morrowii*  
*Polysiphonia paniculata*  
*Polysiphonia stricta*  
*Porphyra yezoensis*  
*Pterosiphonia tanakae*  
*Rhodophysema georgei*  
*Rhodothamniella codicola*  
*Sarconema filiforme*  
*Solieria filiformis*  
*Spongoclonium caribaeum*  
*Symphyocladia marchantioides*  
*Womersleyella setacea*



## MAGNOLIOPHYTA

*Halophila stipulacea*

## BRYOZOA

*Watersipora subtorquata*

*Arachnoidea protecta*

*Bowerbankia gracillima*

*Bugula fulva*

*Bugula serrata*

*Pherusella brevituba*

## CTENOHORA

*Mnemiopsis leidyi*\*

## CNIDARIA

Anthozoa *Haliplanella lineata*

*Oculina patagonica*

Hydrozoa *Amphogona pusilla*\*

*Arctapodema australis*\*

*Campalecium medusifera*\*

*Cirrholovenia tetranema*\*

*Clytia hummelincki*\*

*Clytia linearis*

*Clytia mccradyi*\*

*Cordylophora caspia*

*Coryne eximia*\*

*Eirene viridula*\*

*Eucheilota paradoxica*

*Eudendrium carneum*

*Eudendrium merulum*

*Filellum serratum*\*

*Garveia franciscana*



Scyphozoa

*Gonionemus vertens*  
*Moerisia inkermanica*\*  
*Octotiarra russelli*\*  
*Russellia mirabilis*  
*Scolionema suvaensis*\*  
*Sertularia marginata* est  
*Phyllorhiza punctata*\*  
*Stomolophus meleagris*\*



## PORIFERA

*Paraleucilla magna*

## NEMATODA

*Anguillicola novaezelandiae*

*Anguillicola crassus*

## PLATYHELMINTHES

*Allolepidapedon fistulariae*

## ARTHROPODA

*Acartia (Acanthacartia) tonsa*

*Actumnus globulus*

*Amphibalanus eburneus\*\**

*Anoplodactylus californicus*

*Austrominius modestus\*\**

*Automate branchialis*

*Balanus onodyates*

*Balanus reticulatus*

*Balanus trigonus*

*Bemlos leptocheirus*

*Calanopia elliptica*

*Calappa pelii*

*Callinectes sapidus*

*Cancer pagurus*

*Caprella scaura*

*Charybdis feriata*

*Cryptosoma cristatum*

*Dasya sessilis*

*Elasmopus pecteniscrus*

*Elminius modestus*

*Eocuma sarsii*

*Eriocheir sinensis*





*Erythrosquilla* sp.  
*Glabropilumnus laevis*\*\*  
*Hemigrapsus sanguineus*  
*Heteropanope laevis*  
*Labidocera detruncata*  
*Leptochelia dubia*  
*Marsupenaeus japonicus*  
*Megabalanus tintinnabulum*  
*Menaethius monoceros*  
*Mesanthura* spp.  
*Metacalanus acutioperculum*  
*Monocorophium sextonae*  
*Myicola ostreae*  
*Mytilicola orientalis*  
*Necora puber*  
*Paracalanus indicus*  
*Paracartia grani*  
*Paracerceis sculpta*  
*Paradella diana*  
*Parvocalanus crassirostris*\*\*  
*Percnon gibbesi*  
*Pilumnopeus vauquelini*  
*Plagusia squamosa*  
*Portunus pelagicus*  
*Portunus segnis*\*\*



*Processa macrodactyla*  
*Pseudocalanus elongatus*  
*Rhithropanopeus harrisi*  
*Scaphocalanus amplius*  
*Scolecithrix valens*  
*Scyllarus posteli*  
*Sinalpheus hululensis* Coutière  
*Sphaeroma venustissimum*  
*Sphaeroma walkeri*  
*Stenothoe gallensis*  
*Subeucalanus subcrassus*\*\*  
*Synalpheus tumidomanus africanus*\*\*  
*Thalamita gloriensis*  
*Triconia rufa*  
*Triconia umerus*  
*Unciolella lunata*



## ANNELIDA

*Amphicorina pectinata*  
*Apoprionospio pygmaea*  
*Branchiomma boholensis*  
*Branchiomma luctuosum*  
*Desdemona ornata*  
*Dispio uncinata*  
*Erinaceusyllis serratosetosa*  
*Eunice antennata*  
*Eunice cf. cariboea*  
*Eurythoe complanata*  
*Fabriciola ghardaqa* Banse  
*Ficopomatus enigmaticus*  
*Haploscoloplos kerguelensis*  
*Hesionura serrata*  
*Hyboscolex longiseta*  
*Hydroides albiceps*  
*Hydroides dianthus*  
*Hydroides dirampha*  
*Hydroides elegans*  
*Hydroides heterocerus*  
*Hydroides homocerus*  
*Hydroides steinitzi*  
*Leiochrides australis*  
*Leocrates chinensis*  
*Longibranchium atlanticum*  
*Lumbrineris acutifrons*  
*Lumbrineris neogesae*  
*Lumbrineris perkinsi*  
*Lysidice collaris*



*Mediomastus capensis*  
*Metasychis gotoi*  
*Neanthes agulhana*  
*Neopseudocapitella brasiliensis*  
*Nereis jacksoni*  
*Notomastus aberans*  
*Notomastus mossambicus*  
*Novafabricia infratorquata*  
*Oenone cf. fulgida*  
*Ophryotrocha diadema*  
*Ophryotrocha japonica*  
*Paraprionospio coora*  
*Pileolaria berkeleyana*  
*Pista unibranchia*  
*Podarkeopsis capensis*  
*Polydora colonia*  
*Polydora cornuta*  
*Sigambra parva*  
*Spirorbis marioni*  
*Streblosoma comatus\*\**  
*Syllis pectinans*  
*Syllis schulzi*  
*Terebella ehrenbergi*



## ECHINODERMATA

*Acanthaster planci*  
*Ophiactis savignyi*  
*Protoreaster nodosus*

## MOLLUSCA

*Aeolidiella indica*  
*Alvania dorbignyi*  
*Anadara inaquivalvis*  
*Anadara kagoshimensis\*\**  
*Anadara transversa\*\**  
*Anteaeolidiella foulisi\*\**  
*Bostrycapulus odites\*\**  
*Brachydontes pharaonis*  
*Bursatella leachi*  
*Callista florida*  
*Cerithium scabridum*  
*Chlamys lischkei*  
*Chromodoris quadricolor*  
*Crassostrea angulata*  
*Crassostrea gigas*  
*Crepidula aculeata*  
*Crepidula fornicata*  
*Discodoris lilacina*  
*Favorinus ghanensis*  
*Fulvia fragilis*  
*Gibbula albida*  
*Godiva quadricolor*  
*Melibe fimbriata*  
*Melibe viridis\*\**  
*Mercenaria mercenaria*



*Mitrella psilla*  
*Modiolus auriculatus*  
*Musculista perfragilis*  
*Musculista senhousia*  
*Mya arenaria*  
*Paphia textile*  
*Papyridea australe*  
  
*Papyridea papyracea*  
*Petricola pholadiformis*  
*Pinctada margaritifera*  
*Pinctada radiata*  
*Pleurobranchus forskalii*  
*Polycera hedgpethi*  
*Polycerella emertoni*  
*Psammotreta praerupta*  
*Pseudochama corbieri*  
*Quoyula madreporarum*  
*Rapana venosa*  
*Rissoina spirata*  
*Rissoina spirata*  
*Ruditapes philippinarum*  
*Sabia conica*  
*Saccostrea cucullata*  
*Scapharca inaequivalvis*  
*Thais lacera*  
*Theora lubrica*  
*Tremoctopus gracilis*  
*Xenostrobus securis*



## SIPUNCULA

*Apionsoma (Apionsoma) misakianum*  
*Phascolion (Isomya) convestitum*

## CHORDATA

*Microcoemus exasperatus*  
*Leiognathus klunzingeri*  
Actinopterygii *Abudefduf vaigiensis*  
*Acanthurus monroviae*  
*Aluterus monocerus*  
*Anarhichas lupus*  
*Beryx splendens*  
*Bregmaceros atlanticus*  
*Centrolabrus exoletus*  
*Chaunax suttkusi*  
*Chilomycterus reticulatus*  
*Diodon hystrix*  
*Diplodus bellottii*  
*Fistularia commersonii*  
*Fistularia petimba*  
*Gephyroberyx darwini*  
*Glaucostegus halavi*  
*Gymnammodytes semisquamatus*  
*Halosaurus ovenii*  
*Hippocampus fuscus*  
*Kyphosus incisor*  
*Kyphosus sectator*  
*Lutjanus jocu*  
*Makaira indica*  
*Microchirus boscanion*  
*Microchirus (Zevaia) hexophthalmus*



*Pagellus bellottii*  
*Papilloculiceps longiceps*  
*Pinguipes brasilianus*  
*Pisodonophis semicinctus*  
*Plotosus lineatus*  
*Pomadasys stridens*  
*Psenes pellucidus*  
*Pseudupeneus prayensis*  
*Rachycentron canadum*  
*Scorpaena stephanica*  
*Seriola carpenteri*  
*Seriola fasciata*  
*Siganus luridus*  
*Solea senegalensis*  
*Sphoeroides marmoratus*  
*Sphoeroides pachygaster*  
*Sphyraena chrysotaenia*  
*Spratelloides delicatulus*  
*Stephanolepis diaspros*  
*Synagrops japonicus*  
*Synaptura lusitanica*  
*Syngnathus rostellatus*  
*Trachyscorpia cristulata echinata*  
*Zenopsis conchifera*

Ascidiacea *Cystodytes philippinensis*  
*Distaplia bermudensis*  
*Ecteinascidia styeloides*  
*Microcosmus squamiger*  
*Perophora multiclathrata*  
*Polyandrocarpa zorritensis*





Elasmobranchii

- Rhodosoma turcicum*
- Styela clava*
- Trididemnum cf. savignii*
- Carcharhinus altimus*
- Carcharhinus falciformis*
- Galeocerdo cuvier*
- Isurus paucus*
- Rhizoprionodon acutus*
- Sphyrna mokarran*