The risk of introductions by ballast water has been addressed by OSPAR and HELCOM taking action to ensure the early application of standards consistent with the IMO Ballast Water Convention. Environmental risks related to movements of non-indigenous aquatic species are addressed within the EU by the Regulation concerning use of alien and locally absent species in aquaculture. There are also international risk assessment protocols for assessing the risks of using non-indigenous species in aquaculture.

Ratification and implementation of the IMO Ballast Water Convention should be expedited and followed up with effective enforcement. There is a need to monitor the effectiveness of this and other recently implemented measures on reducing introductions of non-indigenous species. Work under the EU Marine Strategy Framework Directive will provide a focus for this in seeking to ensure that non-indigenous species introduced by human activities are at levels that do not adversely alter the ecosystems.

 TABLE 9.1 Non-indigenous species in the OSPAR area that have been identified as problematic.

	Taxonomic group	Common names	Regions affected	Vector	First reported	Probable impac
	Spartina anglica	Common cord-grass, Townsend's grass or ricegrass	I, III, IV	8 5	France 1906	蠹
ıkton	Sargassum muticum	Wireweed, Japweed, Strangleweed	I?, II, III, IV	KC	UK 1973	· · · · · · · · · · · · · ·
Plants, algae and phytoplankton	Undaria pinnatifida	Wakame, Japanese kelp	II, IV	# CK	France 1972 France 1983	40
and pi	Gracilaria vermiculophylla	Asian red alga	11, 111	€0K	France 1996	40
gae	Codium fragile ssp. fragile	Green sea fingers	I, II, III, IV	5	Netherlands ~ 1900	《 學學
nrs, o	Bonnemaisonia hamifera	Red alga	I, II, III, IV, V	母に	UK 1893	40 ¥
-	Coscinodiscus wailesii	A centric diatom	II, III, IV		UK 1977 Norway 1979	*
	Mnemiopsis leidyi	A comb jelly	II		Netherlands, Sweden, Norway 2006	☆ 4 0
	Marenzelleria spp. (complex)	Red gilled mud worm	11, 111		UK 1979	to an *
	Crepidula fornicata	Slipper limpet	II, III, IV		UK 1872	40%
	Ensis americanus (=directus)	Jackknife clam, razor clam	II		Germany 1979	₹
	Crassostrea gigas	Pacific oyster	II, IV		France 1980s	40%
	Mya arenaria	Soft-shelled clam, soft clam, long-necked clam	I, II, III, IV		1245	40
	Rapana venosa	Rapa whelk, veined whelk	IV	×	France 1997 North Sea 2005	40
	Venerupis philippinarum	Japanese clam, Manila clam	II, IV	×	UK 1992	40
	Teredo navalis	Ship worm	II, III, IV, V		Netherlands >1730	່×≪
2015	Eriocheir sinensis	Chinese mitten crab, Mitten crab, Chinese freshwater edible crab	II, III, IV	₽ 0	Germany 1912	₩ → ■
IIIVel tebi ates	Hemigrapsus sanguineus	Asian shore crab	II, IV		France 1999	€
2	Hemigrapsus takanoi	Asian shore crab	II, IV		France 1994	₹
	Paralithodes camtschaticus	Red king crab	I	5	Norway 1976	₹
	Marsupenaeus japonicus	Kuruma prawn	IV	?	Portugal 1985	40
	Ficopomatus enigmaticus	A tubeworm	II, III, IV		France 1921	40%
	Austrominius (=Elminius) modestus	An acorn barnacle	I, II, IV		UK 1945	《
	Caprella mutica	Skeleton shrimp	II, III, IV		Belgium 1998	《》
	Telmatogeton japonicus	A chironomid (insect)	11, 111		Germany 1963	《》
	Bugula stolonifera	A bryozoan	II, IV, V		Netherlands 1993	《》
	Styela clava	Leathery sea squirt, Asian sea squirt	II, III, IV		France 1968	40%
	Didemnum vexillum	A sea squirt or tunicate	I, III		Netherlands 1991	40%
	Tricellaria inopinata	A bryozoan	II, IV	€CK	Spain 1996 UK 1998	40%
	Bonamia ostreae	None	II, III, IV		France 1976	₹