

Project Information	
Project full title	EuroSea: Improving and Integrating European Ocean Observing and Forecasting Systems for Sustainable use of the Oceans
Project acronym	EuroSea
Grant agreement number	862626
Project start date and duration	1 November 2019, 50 months
Project website	https://www.eurosea.eu

Deliverable information	
Deliverable number	D1.2
Deliverable title	Map of BioEco Observing networks/capability
Description	This deliverable maps the locations and properties of sustained biological observing networks through Europe including identifying coordinating groups and data aggregators. Data come from a global survey of networks, supplemented by an analysis of sustained observations in OBIS (that receives all biological data from EMODNet).
Work Package number	1
Work Package title	Governance and Coordination of ocean observing and forecasting systems
Lead beneficiary	IOC/UNESCO
Lead authors	Lavenia Ratnarajah
Due date	31.10.2020
Submission date	26.02.2021
Resubmission date	20.12.2021 (Executive Summary and Conclusions added)
Comments	The delay of the deliverable was caused by Covid-19 related disruptions causing some delay in recruitment plans and people taking up their roles remotely. Additionally, tasks undertaken to improve the deliverable, that were not foreseen in the outline, were taking additional time but were worthwhile to deliver an accurate mapping for the European Biological networks - The European observing system is complex and currently lacking cross-nation coordination in the biological space. The report and an initial map of the European Biological networks was reviewed internally by the EuroSea consortium.



This project has received funding from the European Union's Horizon 2020 research and

innovation programme under grant agreement No. 862626.



Table of Contents

1.	Executive Summary	2
2.	Map of BioEco observing networks/capability	2
3.	Conclusions	4

Table of Figures

Figure 1. Number of marine monitoring programs for biological Essential Ocean Variables (EOVs) identified	
(up till 22 February 2021) within the European continent	3
Figure 2. Global map of seagrass marine monitoring programs that will be available via a 'live' portal	5

Table of tables

Table 1. List of countries with marine monitoring programs with at least one EOV monitored	6
Table 2. List of countries with no marine monitoring programs identified to date	7
Table 3. List of all marine monitoring programs in Europe as of 11 December 2020	8



1. Executive Summary

This report maps the current state of the sustained ocean observing networks that monitor biological Essential Ocean Variables (EOVs), such as phytoplankton, microbes, zooplankton, benthic invertebrates, fish, birds, marine mammals, turtles, seagrass, macroalgae, hard coral and mangroves across Europe. To date, 363 marine monitoring programs have been identified across 29 European countries. This initial inventory of the sustained biological ocean observing system across Europe, will be developed into an online tool and the networks strengthened through action in EuroSea. Based on the monitoring programs identified, a workshop will be organised in 2021 to develop observation strategies, data sharing practises, and best practises and standards to strengthen and develop these vital ocean observing networks.

2. Map of BioEco observing networks/capability

The database of European marine monitoring programs was built upon the initial global survey undertaken as part of the PEGASuS/Future Earth project. The global survey sought to identify active marine monitoring programs and coordinating networks for biological Essential Ocean Variables (EOVs). These EOVs include phytoplankton, microbes, zooplankton, benthic invertebrates, fish, birds, marine mammals, turtles, seagrass, macroalgae, hard coral and mangroves. The survey identified 130 marine monitoring programs in Europe. Efforts through the EuroSea initiative identified an additional 233 active marine monitoring programs within the European region. Through the PEGASuS/Future Earth and EuroSea efforts, a total of 363 marine monitoring programs have been identified for the European region at present (Figure 1). The EuroSea project identified 30 European countries that undertakes national marine monitoring programs, and 20 regional monitoring programs that are administered by more than 1 European country or other global organisations (Table 1). In addition, Israel undertakes 2 monitoring programs in the Mediterranean region (Table 1). To date, 19 countries have no known marine monitoring programs, 15 of which are landlocked (Table 2). The 4 countries where marine monitoring programs have yet to be identified are: Bosnia and Herzegovina, Malta, Monaco and Montenegro.

A list of all marine monitoring programs identified to date (22 February 2021) is provided in Table 3. Within each country, marine monitoring programs can be administered by government bodies, academic institutions and/or non-governmental organisations. In some countries (e.g., Denmark, Estonia, Finland and Sweden), we have yet to identify marine monitoring programs that are administered by academic institutions and/or non-governmental organisations. In these countries, the marine monitoring programs identified are administered by government agencies (Table 3). This list is not exhaustive as online information on many marine monitoring programs, including the reporting, are only available in the country's native language. The list of marine monitoring programs (Table 3) will be continually updated to reflect incoming information and available to be viewed on the EuroSea website.



To date, 146 monitoring programs have been identified for phytoplankton in Europe, followed by 95 monitoring programs for zooplankton, 83 for benthic invertebrates, 66 for fish, 47 for microbes, 40 for marine mammals, 34 for birds, 30 for macroalgae, 15 for seagrass, 13 for turtles and 4 for hard corals. There are no monitoring programs for mangroves in Europe as they grow in sheltered tropical and subtropical coastal areas across the globe. However, some countries (e.g. France) have overseas territories where mangroves are monitored.



Figure 1. Number of marine monitoring programs for biological Essential Ocean Variables (EOVs) identified (up till 22 February 2021) within the European continent.

A 'live' global marine monitoring portal is being developed by the Global Ocean Observing System (GOOS) Biology and Ecosystem and Ocean Biodiversity Information System (OBIS) that will house all the information collected via the EuroSea and PEGASuS/Future Earth projects. The interactive map will allow users to select an EOV (or more) and the respective marine monitoring programs which monitor the selected EOV(s) will be populated onto the map. Clicking the map at a specific dot point will automatically provide details of the marine monitoring program, and where available, the link to the OBIS dataset. A preview of the portal is provided highlighting the global seagrass marine monitoring program (Figure 2). The development of this database and portal is ongoing with information on additional marine monitoring programs still being gathered as they are identified. A complete report (D1.4 Report on European BioEco networks) is due in January 2022 following on from the workshop to be held in late 2021. The workshop aims to reach an agreement on observation



strategies, data sharing practises, and best practises and standards whilst strengthening engagement with national and international research and observation programs across Europe.

3. Conclusions

In conclusion, there was a lot of interest and willingness to cooperate in this survey, however the survey highlighted the large variety of governance (e.g., academic institutions, government agencies etc.), Standard Operating Procedures/Best Practises as well as data and reporting structures being used. This indicates that there is both an appetite and a need for increased coordination for coastal monitoring in Europe and we anticipate good response to the next stage of this project - the regional workshops. The regional workshops will help build the EU regional monitoring community for the two prioritised coastal ecosystems. This is the first step in developing greater regional cooperation and improved regional scientific products which will lead to greater impact from the science being done.





Figure 2. Global map of seagrass marine monitoring programs that will be available via a 'live' portal



Table 1. List of countries with marine monitoring programs with at least one EOV monitored

Countries	Number of observing programs
Belgium	18
Bulgaria	4
Croatia	10
Cyprus	1
Denmark	33
Estonia	17
Faroe Islands	13
Finland	17
France	54
Georgia	1
Germany	16
Greece	2
Greenland	5
Iceland	7
Ireland	3
Italy	20
Latvia	7
Lithuania	8
Netherlands	6
Norway	5
Norway & Scotland	2
Poland	19
Portugal	14
Romania	4
Russia	5
Slovenia	2
Spain	18
Spain & Scotland	1
Sweden	12
Ukraine	1
United Kingdom	18
Regional	18



Table 2. List of countries with no marine monitoring programs identified to date

Countries	Number of observing programs
Albania	0
Andorra	0
Austria	0
Belarus	0
Bosnia and Herzegovina	0
Czech Republic (Czechia)	0
Hungary	0
Liechtenstein	0
Luxembourg	0
Коѕоvо	0
Malta	0
Moldova	0
Monaco	0
Montenegro	0
North Macedonia	0
San Marino	0
Serbia	0
Slovakia	0
Switzerland	0



Table 3. List of all marine monitoring programs in Europe as of 11 December 2020

Country	Organisation	Program name	Programs/ Location	Time period	Frequency	SOP/BP	Microbes	Phytoplankton	Zooplankton	Benthic invertebrates	Fish	Turtles	Birds	Mammals	Hard coral	Seagrass	Macroalgae	Mangrove	Regional coordination
Belgium	University of Liege (Belgium), Stareso SA (Calvi, France), Ifremer (France), the French Water Agency (PACA- Corsica), and the Territorial Collectivity of	PHYTOCLY Time Series	Location	1979- current	2 x a week since 2005	No		x		invertebrates					corai				coordination
Belgium	Corsica Research Institute for Nature and Forest (INBO)	Breeding Seabirds in Belgium	Belgian coast	1997- current		Yes							×						OSPAR
Belgium	Research Institute for Nature and Forest (INBO)		Belgian part of the North Sea	2005- current		Yes							x						OSPAR
Belgium	Institute for Agriculture, Fishery and Food research (ILVO)	Fish - Demersal Young Fish & Brown Shrimp Survey - Common Fisheries Policy	Belgian part of the North Sea	1973- current	Annual (Sept)	Yes					x								ICES
Belgium	Institute for Agriculture, Fishery and Food research (ILVO)	Fish - North Sea	Belgian part of the North Sea	1973- current	Annual (Aug - Sept)	Yes				x	x								ICES
Belgium	Royal Belgian Institute of Natural Science (RBINS)	Mammals – population abundance	Belgian part of the North Sea	1995- current	2x per year	Yes								x					OSPAR/ICES
Belgium	Royal Belgian Institute of Natural Science (RBINS)	Mammals – strandings	Belgian coast	1995- current	Continually	Yes								х					OSPAR/ICES
Belgium	Institute for Agriculture,	Benthic soft- sediment environmental	Belgian part of the North Sea	1979- current	Annual	Yes				x									OSPAR/ICES



				· · · · · ·				T		1	 				
	Fishery and Food research (ILVO)	impact monitoring programme													
Belgium	Institute for Agriculture, Fishery and Food research (ILVO)	Epibenthos and demersal fish environmental impact monitoring programme	Belgian part of the North Sea	1985- current	Annual	Yes				x					OSPAR/ICES
Belgium	Royal Belgian Institute of Natural Science (RBINS), Research Institute for Nature and Forest (INBO), Institute for Agriculture, Fishery and Food research (ILVO) & Marine Biology Research Group, Ghent University	Ecological impact monitoring offshore windfarms	Belgian part of the North Sea	2005- current		Yes			×	x	x	x			OSPAR
Belgium	Royal Belgian Institute of Natural Science (RBINS)	Hard substrate benthos - community characteristics	Belgian part of the North Sea	2015- current		Yes			x						OSPAR/ICES
Belgium	Institute for Agriculture, Fishery and Food research (ILVO)	Fisheries- dependent observer-at-sea programme - Common Fisheries Policy	Belgian part of the North Sea	1973- current	Continually	Yes			x	x					ICES
Belgium	Royal Belgian Institute of Natural Science (RBINS)	Chlorophyll a	Belgian part of the North Sea	2010- current		Yes	x								OSPAR
Belgium	Flanders Marine Institute (VLIZ)	Phytoplankton observations in the Belgian part of the North Sea – LifeWatch observatory data		2017- current		Yes	x								



Deletions	Eleveleve Mexico	7	Deletere result	2012-		Vee	1			1	1	1				
Belgium	Flanders Marine	Zooplankton	Belgian part			Yes		x								
	Institute (VLIZ)	observations in		current												
		the Belgian part	Sea													
		of the North Sea														
		- LifeWatch														
		observatory														
		data														
Belgium	Research Institute	Monitoring of	Belgian	1962-	Monthly	Yes						х				OSPAR
	for Nature and	beached	coast	current												
	Forest (INBO)	seabirds														
Belgium	Flanders Marine	Passive acoustic	Belgian part	2016-	Continually	Yes							х			OSPAR
	Institute (VLIZ)	monitoring of	of the North		,											
		marine	Sea													
		mammals	000													
Belgium	Royal Belgian	Monitoring of	Belgian	2020-	Daily	Yes							x			OSPAR
Deigium	Institute of	seals on	coast	current	Daily	163							^			OJFAN
	Natural Science	beaches/in	coast	current												
	(RBINS)	harbours														
				2000		N N										
Bulgaria	Institute of	Laboratory of	Sozopol	2009-	Quarterly	Yes			x	x				х	x	
	Biodiversity and	Marine Ecology,		current												
	Ecosystem	Sozopol														
	Research at the															
	Bulgarian															
	Academy of															
	Sciences															
Bulgaria	LTER Europe ->	Black Sea	Kaliakra	1991-	Spring/Sum	Yes	x	x	x	х				х	х	
	LTER Bulgaria	macrosite		current	mer											
Bulgaria	LTER Europe ->	Black Sea	Galata	1991-	Spring/Sum	Yes	x	x	x	х				х	х	
	LTER Bulgaria	macrosite		current	mer											
Bulgaria	LTER Europe ->	Black Sea	Varna Bay	1991-	Spring/Sum	Yes	x	x	x	х				х	х	
	LTER Bulgaria	macrosite		current	mer											
Croatia	Institute of	Mobile species -		2021-	Annual							х				
	Oceanography and	population		current												
	Fisheries	characteristics														
Croatia	Institute of	Mobile species -	1	2021-	Once in 3				1		x					
0.0000	Oceanography and			current	years											
	Fisheries	characteristics			,											
Croatia	Institute of	Activities		2021-	Monthly			1		x						
Civalia	Oceanography and			current	wontiny					^						
	Fisheries	resources		current												
	FISHELIES	(fisheries														
	1	including								1	1	1				



		recreational,												
		maerl, seaweed)	2024											
Croatia	Institute of Oceanography and Fisheries	resources (fisheries including	2021- current	Once in 6 years				x						
		recreational, maerl, seaweed)												
Croatia	Institute of Oceanography and Fisheries	Activities	2021- current	4x per year				x						
Croatia	Institute of Oceanography and Fisheries	Seabed habitats	2021- current	Once in 3 years									x	
Croatia	Institute of Oceanography and Fisheries	Mobile species -	2021- current	Once in 2 years				x						
Croatia	Institute of Oceanography and Fisheries	Mobile species -	2021- current	Varies							х			
Croatia	Institute of Oceanography and Fisheries	Pelagic habitats - community characteristics	2021- current	Varies		x	x							
Croatia	Institute of Oceanography and Fisheries	Plankton blooms (biomass, frequency)	2021- current	Once in 6 years		x								
Cyprus	Department of Fisheries and Marine Research, Ministry of Agriculture, Rural Development and Environment	Biodiversity	2005- current	Varies	Yes	x	x	x	x	x	x		x	
Denmark	Danish Environmental Protection Agency	Mobile species - abundance - birds wintering	1980- current	Annual	Yes					x				 HELCOM, OSPAR



	a 11		1000				1	1	1				
Denmark	Danish	Mobile species -	1980-	Annual	Yes					х			
	Environmental	abundance -	current										
	Protection Agency												
Denmark	Danish	Mobile species -	1983-	Every 6	Yes			x					
	Environmental	distribution,	current	months									
	Protection Agency												
		and/or biomass -											
		Survey IBTS											
		(IBTS -											
		International											
		Bottom Trawl											
		Survey)											
Denmark	Danish	Mobile species -	1988-	Every 6	Yes			x					
	Environmental	distribution,	current	months									
	Protection Agency	abundance											
		and/or biomass -											
		Survey BITS											
		(BITS - Baltic											
		International											
		Trawl Survey)											
Denmark	Danish	Mobile species -	2008-	Annual	Yes			х					
	Environmental	distribution,	current										
	Protection Agency	abundance											
		and/or biomass -											
		Survey											
		CODS_Q4											
		(CODS_Q4 - Cod											
		survey)											
Denmark	Danish	Mobile species -	2004-	Annual	Yes			х					
	Environmental	distribution,	current										
	Protection Agency	abundance and											
		or biomass -											
		flatfish - Survey											
		FFS (FFS -											
		Flatfish survey)											
Denmark	Danish	Foodwebs -	1983-	Varies	Yes	х	x	х					
	Environmental	biodiversity,	current										
	Protection Agency	abundance											
Denmark	Danish	Benthic species -	1987-	Varies	Yes							х	
	Environmental	abundance	current										
	Protection Agency	and/or biomass											



Denmark	Environmental	Benthic species - abundance		1990- current	Varies	Yes		x					
Denmark	Protection Agency Danish Centre for	The Danish	North Sea :	1989-		Yes	x	x		 	x	x	HELCOM
	Environment and Energy (DCE)	National Aquatic Monitoring and Assessment Program (DNAMAP)	DNAMAP- 1510007	current									
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Ringkobing Fjord: DNAMAP-1	1980- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Nissum Fjord: DNAMAP- 22	1983- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Nissum Bredning: DNAMAP- 3702-1	1982- current		Yes	х						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Lister Dyb: DNAMAP-3	1993- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Århus Bugt: DNAMAP- 170006	1979- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment	Køge Bugt: DNAMAP- 1727	1985- current		Yes	x						HELCOM



		Program (DNAMAP)										
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Hevring Bugt: DNAMAP- 190004	1985- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Løgstør Bredning: DNAMAP- 3708-1	1980- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Skive Fjord: DNAMAP- 3727-1	1980- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Ålborg Bugt: DNAMAP- 409	1981- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Anholt East: DNAMAP- 413	1981- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Vejle Fjord: DNAMAP- 4273	1982- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Ven: DNAMAP- 431	1979- current	Yes	х						HELCOM



		Program (DNAMAP)										
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Arkona: DNAMAP- 444	1979- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Mariager Fjord: DNAMAP- 5503	1979- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Horsens Fjord: DNAMAP- 5790	1981- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Roskilde Fjord: DNAMAP-60	1979- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Lillebælt- South: DNAMAP- 6300043	1979- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Lillebælt- North: DNAMAP- 6870	1979- current	Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Odense Fjord: DNAMAP- 6900017	1979- current	Yes	x						HELCOM



		Program (DNAMAP)											
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish	Gniben: DNAMAP- 925	1979- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Storebælt: DNAMAP- 939	1982- current		Yes	x						HELCOM
Denmark	Danish Centre for Environment and Energy (DCE)	The Danish National Aquatic Monitoring and Assessment Program (DNAMAP)	Bornholm Deep: DNAMAP- bmpk2	1980- current		Yes	x						HELCOM
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare		Abundance of wintering birds		Annual	Yes				X			HELCOM, ICES
Estonia	Ministry of the Environment of	Estonian National	Abundance of water	1957- current	Annual	Yes				x			



	the Depublic -f	Monitorir -	birds in the										
	the Republic of	Monitoring	birds in the										
	Estonia, Estonian	Program	breeding										
	Environment		season										
	Agency, Estonian												
	Marine Institute of												
	University of Tartu												
	(UT EMI), Marine												
	Systems Institute												
	of the Tallinn												
	University of												
	Technology												
	(TalTech MSI),												
	Estonian												
	Ornithological												
	Society (EOS),												
	Estonian												
	University of Life												
	Sciences (ULS),												
	NPA Pro Mare												
Estonia	Ministry of the	Estonian	Abundance	2004-	Varies	Yes							
	Environment of	National	of migratory	current									
	the Republic of	Monitoring	water birds										
	Estonia, Estonian	Program	(coastal										
	Environment	- 0	area)										
	Agency, Estonian		,										
	Marine Institute of												
	University of Tartu												
	(UT EMI), Marine												
	Systems Institute												
	of the Tallinn												
	University of												
	Technology												
	(TalTech MSI),												
	Estonian												
	Ornithological												
	Society (EOS),												
	Estonian												
	University of Life												
	Sciences (ULS),												
Estau:	NPA Pro Mare	Este vie v	A hund		A	No.					 		
Estonia	Ministry of the	Estonian	Abundar		Annual	Yes							HELCOM, ICES
	Environment of	National	migratory wa	ater birds									
	the Republic of												



	Estonia, Estonian Environment Agency, Estonian	Monitoring Program	(feeding in area										
	Marine Institute of												
	University of Tartu (UT EMI), Marine												
	Systems Institute												
	of the Tallinn												
	University of												
	Technology												
	(TalTech MSI), Estonian												
	Ornithological												
	Society (EOS),												
	Estonian												
	University of Life												
	Sciences (ULS),												
	NPA Pro Mare												
Estonia	Ministry of the	Estonian	Seals	1994-	Annual	Yes				х			HELCOM
	Environment of the Republic of	National Monitoring	Abundance	current									
	Estonia, Estonian	Program											
	Environment	riogram											
	Agency, Estonian												
	Marine Institute of												
	University of Tartu												
	(UT EMI), Marine												
	Systems Institute of the Tallinn												
	University of												
	Technology												
	(TalTech MSI),												
	Estonian												
	Ornithological												
	Society (EOS),												
	Estonian University of Life												
	Sciences (ULS),												
	NPA Pro Mare												
Estonia	Ministry of the	Estonian	Seals –	1990-	Annual	Yes				х			HELCOM
	Environment of	National	breeding	current									
	the Republic of	Monitoring	success										
	Estonia, Estonian	Program											



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	Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare													
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare	Estonian National Monitoring Program	Coastal fish	1975- current	Annual	Yes				x				HELCOM
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment	Estonian National Monitoring Program	Off-shore fish	1992- current	Annual	Yes				x				ICES



	Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare												
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare	Estonian National Monitoring Program	Migratory fish	1993- current	Annual	Yes			x				
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian	Estonian National Monitoring Program	Phytoplankt on species composition , abundance and biomass	current	A	Yes	X						HELCOM



	Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS),													
Estonia	NPA Pro Mare Ministry of the	Estonian	Zooplankton		Annual	Yes		x						HELCOM
	Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare	National Monitoring Program	species composition , abundance and biomass	current										
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of	Estonian National Monitoring Program	Seabed habitats – community characteristi cs	1974- current	Annual	Yes			x			x	x	HELCOM



	University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare												
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life Sciences (ULS), NPA Pro Mare	Estonian National Monitoring Program	Macrozoobe nthos	current	Annual	Yes		x					HELCOM
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency,	Estonian National Monitoring Program	Phytobenthi c communitie s	1995- current	Annual	Yes					x	x	HELCOM



Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency, Estonian Marine Institute of University of Tartu (UT EMI), Marine Systems Institute of the Tallinn University of Technology (TalTech MSI), Estonian Ornithological Society (EOS), Estonian University of Life	Estonian National Monitoring Program	PhytopChla - Chlorophyll- a	1993- current	Annual	Yes		x							HELCOM
	Sciences (ULS), NPA Pro Mare														
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency,	Estonian National Monitoring Program	Non- indigenous species – harbours and adjacent regions	2012- current	Annual	Yes		x	x	x	x				HELCOM
Estonia	Ministry of the Environment of the Republic of Estonia, Estonian Environment Agency,	Estonian National Monitoring Program	Non- indigenous species – abundance and biomass	1993- current	Annual	Yes		x	x	x	x				HELCOM
Faroe Islands	Faroe Marine Research Institute	Faroe Islands Shelf Time Series		1991- current	Annually in May	Yes	x	x	x						
Faroe Islands	Faroe Marine Research Institute	Norwegian Sea		1990- current	Annually in May	Yes			x						
Faroe Islands	Faroe Marine Research Institute			1973- current	Annually							x			



				1	1		-	1		1	1					1	
Faroe	Faroe Marine	Faroese Marine		2017-	Annually in	Yes	х	x	х	x	х		х		х		
Islands	Research Institute	Ecosystem Study		current	May												
		(FAMEOS)															
Faroe	Faroe Marine	International	Gridded	2004-	Annua	llv in			x		х						
Islands	Research Institute	Blue Whiting	Survey	current	March/												
isianus	incocur en institute	Spawning Stock	ourrey	current	indicit,												
		Survey (IBWSS)															
	Faroe Marine	International	Gridded	1995-	Annually in									 			ICES
Faroe					· · ·				x		х						ICES
Islands	Research Institute	Ecosystem	Survey	current	May												
		Survey in the															
		Nordic Seas															
		(IESNS)															
Faroe	Faroe Marine	International	Gridded	2009-	Annually in				х		х						ICES
Islands	Research Institute	Ecosystem	Survey	current	July/August												
		Summer Survey															
		in the Nordic															
		Seas (IESSNS)															
Faroe	Faroe Marine	ICES North West	Gridded														
Islands	Research Institute	Working Group	Survey														
Faroe	Faroe Marine	North Atlantic	North	1987-	6-8y interva	al (1987. 1	1989, 1995,						x				
Islands	Research Institute	Sightings	Atlantic	current		1, 2007,20							Â				
Islands	nesearen institute	Surveys	/ clancic	current	200	1, 2007,20	015)										
Faroe	Faroe Marine	Bottom trawl	Gridded	1983-	Annually in		1										
	Research Institute				March					x	х						
Islands		survey	Survey	current										 			
Faroe	Faroe Marine	Bottom trawl	Gridded	1996-	Annually in					x	x						
Islands	Research Institute	survey	Survey	current	August												
Faroe	Faroe Marine	Bottom trawl	Gridded	2014-	Annually in					x	х						
Islands	Research Institute	survey	Survey	current	September												
Faroe	Faroe Marine	Pelagic trawl	Gridded	1983-	Annually in						х						
Islands	Research Institute	survey	Survey	current	September												
Finland	Archipelago	Long-term		1967-	Monthly	Yes		x	x		х						
	Research Institute	environmental		current													
		monitoring:															
		Archipelago Sea															
Finland	Natural Resource	Seal abundance		1988-	Annual	Yes	1		1	1			x				
	Institute Finland			current									, î				
Finland	Finnish	Abundance and		2001-	Continually	Yes							x				
	Environment	distribution of			continually	103							^				
1				current													
	Insitute	harbour															
		porpoises												 			
Finland	Finnish Parks and			1948-	Annual	Yes						х					
	Wildlife Service	birds		current													



Finland	Finnish	Marine	1975-	Annual	Yes						x				
Timanu	Environment	wintering birds	current	Annuar	163						^				
	Insitute	wintering birds	current												
Finland	Finnish	White tailed	1972-	Annual	Yes						x				
1 mana	Environment	eagle breeding	current	, and a	105						Â				
	Insitute	success	current												
Finland	Natural Resource	Sea trout	1990-	Annual	Yes				x						
1 mana	Institute Finland	Scatiout	current	Annuar	103				Ŷ						
Finland	Finnish	Coastal fish	2002-	Annual	Yes				x						
1 mana	Environment	gillnet survey	current	Annuar	103				Ŷ						
	Insitute	ginnet survey	current												
Finland	Finnish	Offshore soft	1964-	Annual	Yes			Y							
Fillallu	Environment	bottom		Annual	res			x							
	Insitute	macrozoobenth	current												
	insitute	OS													
Finland	Finnish	Coastal waters	1964-	Annual	Yes			x							
Fillallu	Environment	soft bottom	current	Annuar	res			*							
	Insitute	fauna	current												
Finland	Finnish	Coastal hard	1993-	Annual	Yes										
Finiand	Environment	bottom	current	Annual	res									x	
	Insitute	macroalgae and	current												
	insitute	blue mussel													
		communities													
Finland	Finnish Parks and	Coastal sand and	2020-	Every 3	Yes									x	
Filliallu	Wildlife Service	gravel bottoms	current	years	res									^	
Finland	Finnish Parks and	Soft bottom	2020-	Every 3	Yes								x	x	
1 mana	Wildlife Service	macrophytes	current	years	103								Â	Â	
Finland	Finnish	Zooplankton	1979-	Annual	Yes		x								
Timanu	Environment	species	current	Annuar	163		^								
	Insitute	composition and	current												
	insitute	abundance													
Finland	Finnish	Phytoplankton	1979-	Annual	Yes	x									
Timanu	Environment	species	current	Annuar	163	^									
	Insitute	composition and	current												
	manute	abundance													
Finland	Natural Resource	Fisheries data	2002-	Annual	Yes				x						
1 manu	Institute Finland	collection	current		103				^						
Finland	Finnish	Phytoplankton	1979-	Continually	Yes	x			-						
1 manu	Environment	pigments	current		163	^									
	Insitute	pignients	current												
France	Foundation Total,	Biodiversity,	2015-	1x per year	No							v			
France	Univérsite Pierre	extreme	current	Ty her year	NU							х			
	Universite Fielde	extreme	current			1	1	1	1	1	1				



	et Marie Curie,	environment												
	CNRS	and global												
	CINKS													
		change	DVEALAED	4004										
France	CNRS, Ifremer,	Infrastructure de	DYFAMED	1991-	Monthly	Yes		x	x					
	RDF, IGN, Shom,	Recherche		current										
	French Ministry of	Littorale et												
	Higher Education,	Côtière (ILICO):												
	Research and	Mediterranean												
	Innovation	Ocean												
	(MESRI), BGRM,	Observing												
	AFB and CEREMA	System for the												
		Environment												
		(MOOSE)												
France	CNRS, Ifremer,	Infrastructure de	ANTARES	2009-	Monthly	Yes	х	х	х					
	RDF, IGN, Shom,	Recherche		current										
	French Ministry of	Littorale et												
	Higher Education,	Côtière (ILICO):												
	Research and	Mediterranean												
	Innovation	Ocean												
	(MESRI), BGRM,	Observing												
	AFB and CEREMA	System for the												
		Environment												
		(MOOSE)												
France	CNRS, Ifremer,	Infrastructure de	Brest -	1998-	weekly	Yes		х						
	RDF, IGN, Shom,	Recherche	Sainte Anne	current										
	French Ministry of	Littorale et												
	Higher Education,	Côtière (ILICO):												
	Research and	PHYTOBS												
	Innovation													
	(MESRI), BGRM,													
	AFB and CEREMA													
France	CNRS, Ifremer,	Infrastructure de	Boulogne	1992-	2x per	Yes		x						
Tunee	RDF, IGN, Shom,	Recherche	boulogile	current	month			~						
	French Ministry of													
	Higher Education,	Côtière (ILICO):												
	Research and	PHYTOBS												
	Innovation	1111005												
	(MESRI), BGRM,													
	AFB and CEREMA													
France	CNRS, Ifremer,	Infrastructure de	At So	1987-	2x per	Yes		x						
Trance	RDF, IGN, Shom,	Recherche	A: 30	current	month	103		^						
	French Ministry of			current	monul									
	Higher Education,													
	nighter Euucation,													



	Research and	Côtière (ILICO):											
	Innovation	PHYTOBS											
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de		1999-	2x per	Yes	х						
	RDF, IGN, Shom,	Recherche	Bouée 13	current	month								
	French Ministry of												
	Higher Education,												
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de	Cabourg	2002-	2x per	Yes	х						
	RDF, IGN, Shom,	Recherche	_	current	month								
	French Ministry of	Littorale et											
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France		Infrastructure de	Loguivy -	1987-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche	Trieux	current	month								
	French Ministry of												
	Higher Education,												
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France		Infrastructure de	Wimereux	1998-	2x per	Yes	 x						
Trance	RDF, IGN, Shom,	Recherche	winnereux	current	month	163	^						
	French Ministry of			current	monui								
	Higher Education, Research and	Côtière (ILICO): PHYTOBS											
	Innovation	PHTIOBS											
	(MESRI), BGRM,												
	AFB and CEREMA			1007						 			
France		Infrastructure de		1987-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche	Hébihens -	current	month								
	French Ministry of		Arguenon										
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												



	(MESRI), BGRM,											
	AFB and CEREMA											
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA	Côtière (ILICO): PHYTOBS	- Baie de Douarnenez	1987- current	2x per month	Yes	x					
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA	Littorale et Côtière (ILICO): PHYTOBS	Roscoff - Bouée Astan	2000- current	2x per month	Yes	x					
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA	Côtière (ILICO): PHYTOBS	Concarneau large	1992- current	2x per month	Yes	x					
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA	Côtière (ILICO): PHYTOBS	Men er Roué - Quiberon	1987- current	2x per month	Yes	x					
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA		Ouest Loscolo	1987- current	2x per month	Yes	x					



France	CNRS, Ifremer,	Infrastructure de	Marseille	1994-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche		current	month								
	French Ministry of												
	Higher Education,												
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA			4007						 			
France	CNRS, Ifremer,	Infrastructure de		1987-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche	Pertuis	current	month								
	French Ministry of Higher Education,		Breton										
	Research and	Côtière (ILICO): PHYTOBS											
	Innovation	FIITOBS											
	(MESRI), BGRM,												
	AFB and CEREMA												
France		Infrastructure de	Luc-sur-Mer	2012-	2x per	Yes	x	1					
	RDF, IGN, Shom,	Recherche		current	month								
	French Ministry of	Littorale et											
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA									 			
France	CNRS, Ifremer,	Infrastructure de	Auger	1988-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche		current	month								
	French Ministry of												
	Higher Education, Research and	Côtière (ILICO): PHYTOBS											
	Innovation	PHILOBS											
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de	Tevchan bis	1987-	2x per	Yes	x	1					
	RDF, IGN, Shom,	Recherche	.,	current	month								
	French Ministry of												
	, Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France		Infrastructure de	Villefranche	1995-	2x per	Yes	x						
	RDF, IGN, Shom,	Recherche		current	month								
	French Ministry of	Littorale et											



	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de	Bouzigues -	1987-	2x per	Yes	х						
	RDF, IGN, Shom,	Recherche	Lagune de	current	month								
	French Ministry of	Littorale et	Thau										
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de		2011-	2x per	Yes	х						
	RDF, IGN, Shom,	Recherche	Antioche	current	month								
	French Ministry of												
	Higher Education,	Côtière (ILICO):											
	Research and Innovation	PHYTOBS											
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de	Sète	2002-	2x per	Yes	x						
Trance	RDF, IGN, Shom,	Recherche	Jette	current	month	103	~						
	French Ministry of			current	montin								
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA												
France	CNRS, Ifremer,	Infrastructure de	Barcarès	1989-	2x per	Yes	х						
	RDF, IGN, Shom,	Recherche		current	month								
	French Ministry of												
	Higher Education,	Côtière (ILICO):											
	Research and	PHYTOBS											
	Innovation												
	(MESRI), BGRM,												
	AFB and CEREMA			1007				 			 		
France	CNRS, Ifremer,	Infrastructure de			2x per	Yes	х						
	RDF, IGN, Shom,	Recherche	2	current	month								
	French Ministry of Higher Education,												
	Research and	Côtière (ILICO): PHYTOBS											
	Innovation	PHILOBS											
	mnovation							1					



							1			1	 			
	(MESRI), BGRM, AFB and CEREMA													
France	CNRS, Ifremer, RDF, IGN, Shom, French Ministry of Higher Education, Research and Innovation (MESRI), BGRM, AFB and CEREMA	Infrastructure de Recherche Littorale et Côtière (ILICO): PHYTOBS	Banyuls	2017- current	2x per month	Yes		x						
France	CNRS, University of Bordeaux	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Arcachon)	Eyrac	1997- current	2x per month	Yes	x	x						
France	CNRS, University of Bordeaux	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Arcachon)	Bouée 13	2005- current	2x per month	Yes	x	x						
France	CNRS, University of Bordeaux	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Arcachon)	Comprian	2005- current	2x per month	Yes	x	x						
France	CNRS, Sorbone Université	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Banyuls)	Sola	1997- current	4x per month	Yes	x	x						
France	CNRS, Université de Bretagne Occidentale	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Brest)	Portzic	1998- current	4x per month	Yes	x	x						
France	MNHN	Infrastructure de Recherche Littorale et	Cézembre	2014- current	2x per month	Yes	x	x						



		Côtière (ILICO):											
France	MNHN	SOMLIT (Dinard) Infrastructure de Bize Recherche Littorale et Côtière (ILICO):	ux 2012- current	2x per month	Yes	x	x						
France	CNRS, University of Bordeaux	SOMLIT (Dinard) Infrastructure de Pk 8 Recherche Littorale et Côtière (ILICO): SOMLIT	6 1997- current	1x per month	Yes	x	x						
France	CNRS, University of Bordeaux	(Gironde) Infrastructure de Pk 5 Recherche Littorale et Côtière (ILICO): SOMLIT	2 1997- current	1x per month	Yes	x	x						
France	CNRS, University of Bordeaux	(Gironde) Infrastructure de Pk 3 Recherche Littorale et Côtière (ILICO): SOMLIT (Gironde)	0 1997- current	1x per month	Yes	x	x						
France	CNRS, La Rochelle Université		he 2011- current	2x per month	Yes	x	x						
France	CNRS, Université Caen Normandie	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Luc- sur-mer)	mer 2007- current	2x per month	Yes	x	x						
France	CNRS, Université Caen Normandie		e 2013- current	2x per month	Yes	x	x						



France	CNRS, Aix-	Infrastructure de	Frioul	1997-	2x per	Yes	x	x					
	Marseille Université	Recherche Littorale et Côtière (ILICO): SOMLIT		current	month								
_		(Marseille)											
France	CNRS, Sorbone Université	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Roscoff)	Astan	2000- current	2x per month	Yes	x	x					
France	CNRS, Sorbone Université	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Roscoff)	Estacade	1997- current	2x per month	Yes	x	x					
France	CNRS, Université de Montpellier	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Sète)	Sète	2015- current	2x per month	Yes	х	x					
France	CNRS, Sorbone Université	Infrastructure de Recherche Littorale et Côtière (ILICO): SOMLIT (Villefranche)	Point B	1997- current	4x per month	Yes	x	x					
France	CNRS, Université de Lille, Université du Littoral et de la Côte d'Opale	Recherche	Point C	1998- current	2x per month	Yes	x	x					
France	CNRS, Université de Lille, Université du Littoral et de la Côte d'Opale	Recherche	Point L	1998- current	2x per month	Yes	x	x					



France	CNRS-INSU,	French		1987-	Monthly	Yes		x								
Trance	Ifremer, Université			current	Wollding	105		Â								
	de La Rochelle,	Monitoring		(?)												
	Université de Caen			(.)												
	Normandie	Phytoplankton														
	Normanule	and Hydrology														
		in coastal waters														
		(REPHY)														
Frances	CNIDE / Carlana		Diama Maina	1077	2	Vee									 	
France	CNRS / Sorbonne		Pierre Noire	1977-	2x per year	Yes				x						
	Université	monitoring		current	-											
France	CNRS / Sorbonne		Rivière de	1977-	2x per year	Yes				х						
	Université	monitoring	Morlaix	current												
France	CNRS	Association of		2010-	Year round	Yes						х				
		New Tools to		current												
		Improve the														
		understanding														
		of the Dynamic														
		Of Threatened														
		marine turtles														
		(ANTIDOT)														
France	CNRS / Sorbonne	RadeZOO		1966-	Daily	Yes			x							
	Université			current	, i											
France	Ifremer and	Gravelines		1975-	Monthly	Yes		x	x							
	Electricite de	Station		current												
	France (EDF)															
Georgia	National	Assessment and	Georgian	2006 -	Seasonal	Yes	х	x	x	x	х					No
	Environmental	commercial	part of the	current												
	Agency of Georgia	forecasting of	Black Sea													
	(NEA). Dep. of	fish and other														
	Fisheries,	hydrobionts														
	Aquaculture and	resources of the														
	Water	Black Sea coast														
	Biodiversity.	and inland														
		waters of														
		Georgia,														
		biological														
		monitoring,														
		determination														
		of the														
		environmental														
		status of the														
		reservoirs. /														
		Code - 4														
1		Loue - 4					1	1	1		1	1	1			



Germany	GEOMAR	LTER Boknis Eck Time-Series Station	Eckernförde Bay, SW Baltic Sea	1957- current	Monthly	Yes		x							
Germany	Helmholtz- Zentrum Geesthacht Centre for Materials and Coastal Research GmbH	Coastal Observing System for Northern and Arctic Seas (COSYNA)	FerryBox	2009- current	10 minutes	Yes		x							
Germany	Helmholtz- Zentrum Geesthacht Centre for Materials and Coastal Research GmbH	Coastal Observing System for Northern and Arctic Seas (COSYNA)	Glider	2011- current	Seconds	Yes		x							
Germany	Helmholtz- Zentrum Geesthacht Centre for Materials and Coastal Research GmbH	Coastal Observing System for Northern and Arctic Seas (COSYNA)	Remote sensing	2009- current	Daily	Yes		x							
Germany	Senckenberg Society for Nature Research	Dogger Bank long-term monitoring programme		1991- current	Annual	Yes		x	x	x	x				
Germany	AWI	LTER Observatory Hausgarten		1999- current	Once per summer (cruise) + autonomou s instrument s throughout the year	Yes	x	x	x						
Germany	AWI	North Sea ecological time series	North Sea Benthos	1969- current	Annual	Yes				x					
Germany	AWI	North Sea ecological time series	Helgoland Roads	1962- current	Daily	Yes		x	x						


| Senckenherg | LTER North Sea | | 1978- | Annual or | Yes

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ResearchUrrentVaiYesXX | ciery of num Bestearch
Observatory Descrutory Seamonal current Seamonal Name Name |



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Germany	Leibniz Institute	The IOW Baltic		1979-	Annual	Yes				x					HELCOM
	for Baltic Sea	Sea Time Series	Bay north	current											
	Research														
	Warnemuende														
	(IOW) (On behalf														
	of the Federal														
	Maritime and														
	Hydrographic														
	Agency, Hamburg														
	and Rostock)														
Germany	Leibniz Institute	The IOW Baltic	Pomeranian	1979-	Annual	Yes				x					HELCOM
Germany	for Baltic Sea	Sea Time Series		current	Annuar	103				^					TILLCOW
	Research	Sea Time Series	Bay Central	current											
	Warnemuende														
	(IOW) (On behalf														
	of the Federal														
	Maritime and														
	Hydrographic														
	Agency, Hamburg														
	and Rostock)														
Germany	Niedersächsischer			1985-	Weekly	Yes		х		x			х	х	
	Landesbetrieb für	W2		current											
	Wasserwirtschaft,														
	Küsten- und														
	Naturschutz														
	(NLWKN) which is														
	"Federal Agency														
	for														
	Watermanagemen														
	t, Coastal Defense														
	and Nature														
	Conservation of														
	Lower Saxony" in														
	English														
Creater		Janian Dalahin		1991-	Mariaa	Citizen									
Greece	Tethys Research Institute	Ionian Dolphin			Varies	science						x			
		Project		current											
Greece	Hellenic Centre for			2010-	Monthly to	Yes	х	x	x						
	Marine Research	system		current	biannually										
	(HCMR)														
Greenland		Greenland	MarineBasis	2002-				х	х			х		x	
	Institute of	Ecosystem	Zackenberg	current											
	Natural Resources	Monitoring													



Greenland	Greenland	Greenland	MarineBasis	2005-				x	x			х	x		x	
	Institute of Natural Resources	Ecosystem Monitoring	Nuuk	current												
Greenland		Mapping and								x						
	Institute of	monitoring														
	Natural Resources															
		communities														
Greenland	Greenland	Accousic											х			
	Institute of	monitoring of														
	Natural Resources															
		mammals in a														
		changing Arctic														
Greenland		Photo											х			
	Institute of	identification of														
	Natural Resources	Humpback														
		Whales														
Iceland	Marine and	Icelandic	Siglunes	1958-	May and	Yes		х	x							
	Freshwater	monitoring	Transect -	current	June											
	Institute (MFRI)	programme	Lower	4050												
Iceland	Marine and Freshwater	Icelandic	Siglunes	1958-	May and	Yes		x	x							
	Institute (MFRI)	monitoring	Transect -	current	June											
Iceland	Marine and	programme Icelandic	Upper Selvogsbanki		Mayand	Yes										
Iceland	Freshwater	monitoring	Transect		May and June	res										
	Institute (MFRI)	programme	Transect		Julie											
Iceland	Icelandic Institute	Icelandic		1952-	Annual							х				
iceialiu	of Natural History	Christmas Bird		current	Annuar							^				
	or water an instory	Count		current												
Iceland	South Iceland	Atlantic Puffin		2010-	Varies							х				
locialia	Nature Research	population		current	vanes							~				
	Centre	monitoring														
		program														
Iceland	South Iceland	Icelanding		2017-								х				
	Nature Research	nocturnal		current												
	Centre	seabird														
		monitoring														
		program														
Iceland	South Iceland	Icelandic Storm-		2017-												
	Nature Research	Petrel & Manx's		current												
	Centre	Shearwater														
		Population														



		Monitoring															
		Programme															
Ireland	National Biodiversity Data	National Biodiversity		2007- current	Varies	Citizen science	x		x	x		х			x	х	
	Centre	Data Centre		current		science											
Ireland	Marine Institute	Phytoplankton		1986-	Weekly	Yes		x									
		monitoring		current													
Ireland	Fisheries	Western		2008-	Annual	Yes	х	x	x		х		х	х			
	Ecosystems	European Shelf		current													
	Advisory Service	Pelagic Acoustic															
	(FEAS) in the	Survey															
Israel	Marine Institute University of Haifa	(WESPAS) Israel Marine		1993-	Monthly to	Yes											
Israel	University of Halla	Mammal		current	bimonthly	res								x			
		Research &		current	binoneny												
		Assistance															
		Center															
Israel	University of Haifa			2015-	Varies	Yes		x		x	х			х			
		Research Station		current													
Italy	University of	IT14-Marine	Golfo	1997-	Seasonally		х	x									LTER
	Sassari	ecosystems of	dell'Asinara	current													
Italy	University of	Sardinia - Italy IT14-Marine	Golfo di	1992-													LTER
litaly	Sassari	ecosystems of	Olbia - Italy	current													LIEK
	5035011	Sardinia - Italy	Cibia italy	current													
Italy	University of	IT14-Marine	Laguna di	2006-				x									LTER
	Sassari	ecosystems of	Cabras	current													
		Sardinia - Italy															
Italy	University of	IT14-Marine	Laguna di	1990-													LTER
	Sassari	ecosystems of	S'Ena	current													
Italy	University of	Sardinia - Italy IT14-Marine	Arrubia Laguna di	2006-													LTER
Italy	Sassari	ecosystems of	Santa Giusta					x									LIEK
	5035011	Sardinia - Italy	Sunta Glusta	current													
Italy	Tethys Research	Cetacean		1990-	Weekly from	n May to								х			
	Institute	Sanctuary		current	Öctol												
		Research															
Italy	Instituto di Scienze		Gulf of	1970-				x	x								LTER
	Marine (ISMAR)	Adriatic Sea -	Venice	current													
		Italy ("Acqua															
		Alta" research tower)															
		lower						1		1	1						



			1		1	1		1	1	1	-				1		1	
Italy	Instituto Nazionale de Oceanografia di Geofisica Sperimentale		Gulf of Trieste C1	1986- current	Monthly		x	x	X	X								LTER
Italy	Stazione Zoologica Anton Dohrn	MareChiara	Golfo di Napoli	1984- current	Weekly		x	x	x									LTER
Italy	KYMA sea conservation & research	On the tracks of great pelagic marine animals (whales, dolphins, sea turtles, swordfish and tunas)		2020- current	June-Sept	Yes					x	x		x				
Italy	KYMA sea conservation & research	On the tracks of great pelagic marine animals (whales, dolphins, sea turtles, swordfish and tunas)	2	2020- current	June-Sept	Yes					x	x		x				
Italy	National Research Council of Italy			2011- current	Daily	Yes		x										
Italy	CIMA Research Foundation	ZIPHIUS		2004- current	Summer	Yes								x				
Italy	ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale	The Fixed Line Transect Mediterranean monitoring Network (FLT Med Net)		2007- current	weekly or bi-weekly	Yes						x	x	x				
Italy	MENKAB	ECHO	Northern point of Pelagos Sanctuary	2009- current	All year ro mostly fron Octol	n April to						x		x				
Italy	Oceanomare Delphis	Ischia Dolphin Project	Archipelagos Campano and Pontino	1991- current	Weekly from May to October	Yes					x	x	x	х				
Italy	Delfini del Ponente APS	Delfini del Ponente -	Western Ligurian Sea	2018- current	8-10x month	Yes					х	x	x	x				



		Dolphin Research Project															
Italy	DelTa - delfini e tartarughe nel Golfo di Trieste	N2K	Gulf of Trieste - italian side	2016- current	June-Sept							x		x			
Italy	Jonan Dolphin Conservation	Researcher for a day	Gulf of Taranto - Italy	2009- current	March - November	Yes		x	x			x		x			
Italy	Stazione Zoologica Anton Dohrn	NaplesEcological REsearch for Augmented Observatories (NEREA)	Gulf of Naples	2019- current	Monthly	Yes	x	x	x								
Latvia	University of Latvia	Engure marine site - Latvia	Baltic Sea, Gulf of Riga	1997- current	once in 2 years	Yes	x	x	x	x					x	x	ILTER
Latvia	University of Latvia	The Gulf of Riga littoral biodiversity		1997- current	once prt year	Yes	x	x	x	x						x	
Latvia	Latvian Institute of Aquatic Ecology, University of Daugavpils	Marine monitoring programme		1973- current	Annual	Yes		x	x	x							HELCOM
Latvia	Latvian Institute of Aquatic Ecology, University of Daugavpils	Marine monitoring programme		2014- current	once in 6 year period	Yes				x						x	HELCOM
Latvia		Latvia work plan for data collection in fisheries and aquaculture sectors		1960's- current	Annual	Yes					x						ICES and EC
Latvia	Nature Conservation Agency	Monitoring of biodiversity (State monitoring) - Aviation accounts of seawater waterbirds		2017- current	Annual	Yes							x				HELCOM



						1		1		-	1					
Latvia	Nature	Monitoring of	1967-	Annual	Yes							х				
	Conservation	biodiversity	current													
	Agency	(State														
		monitoring) -														
		coastal and														
		inland wintering														
		waterfowl														
		surveys														
Lithuania	Environmental	BALLT-	1990-	Varies	Yes			x								HELCOM
	Protection Agency	D024 Zoopl	current													
Lithuania	Environmental	BALLT-	1981-	Annual	Yes				x							HELCOM
Litindania	Protection Agency		current	,												
	r lottettion / geney	oobenthos	current													
Lithuania	Environmental	BALLT-	1992-	Annual	Yes					x						HELCOM
Littiuailia	Protection Agency		current	Annuar	163					^						TILLCOW
	Protection Agency	stal	current													
Linkssonia	Environmental	BALLT-	1980-	F	N											HELCOM
Lithuania				Every 3	Yes		x									HELCOW
	Protection Agency		current	months												
Lithuania	Environmental	BALLT-	1992-	Every 3	Yes							x				HELCOM
	Protection Agency	D01_BirdsWinte	current	years												
		r														
Lithuania	Environmental	BALLT-	2005-	Varies	Yes					х						ICES
	Protection Agency		current													
		shore														
Lithuania	Environmental	BALLT-D05_ChIA	1980-	Every 3	Yes		x									HELCOM
	Protection Agency		current	months												
Lithuania	Environmental	BALLT-	2007-	Every 2	Yes										х	HELCOM
	Protection Agency	D0156 SeabedV	current	years												
	с, ,	egetation														
Netherlan	Stichting Rugvin	North Sea	2005-	Once a	Yes							x	x			
ds	(the Rugvin	Cetacean	current	month												
	foundation)	monitoring														
	iounuution,	programme														
		(Project Rugvin)														
Netherlan	Stichting Rugvin	Harbour	2015-	April -	Yes								x			
ds	(the Rugvin	porpoise Photo	current	October	162								×			
us			current													
	foundation)	Identification		(weather												
		Programme,		dependent)												
		Eastern Scheldt														
		(Project Rugvin)														
Netherlan	NIOZ Royal	Synoptic	2008-	Once per	Yes				x							
ds	Netherlands	Intertidal	current	summer		1										



	Institute for Sea	Benthic Survey											
	Research	(SIBES)	1000	N									
Netherlan ds	NIOZ Royal Netherlands Institute for Sea Research	Shorebird survival	1998- current	Varies/Dail y	Yes					х			
Netherlan	NIOZ Royal	Shorebird	2017-	Varies/Dail	Yes					х			
ds	Netherlands Institute for Sea Research	habitat use in the western Wadden Sea	current	У									
Netherlan ds	Institute for Sea Research (NIOZ) nd the University of Groningen	Waddenmozaiek program	2019- current	Every 2 years	Yes			x	x			x	
Norway	Institute of Marine Research (IMR) Monitoring Programme	Svinøy Transect - East and West	1995- current	4 - 10 times a year			x						
Norway	Institute of Marine Research (IMR) Monitoring Programme	Fugløya- Bjørnøya Transect - North and South	1995- current	3 - 6 times a year			x						
Norway	Institute of Marine Research (IMR) Monitoring Programme	Vardø-Nord Transect - North and South	1995- current	3 - 4 times a year			x						
Norway	Institute of Marine Research (IMR) Monitoring Programme	Arendal Station 2	1994- current	Twice a month		x	x						
Norway	University of Bergen	Ocean Weather Station M	1948- current	Daily		x							
Norway &	UiT The Arctic	Kongsfjorden	2002-	Daily			x	х	х				
Scotland	University of Norway until 2026 in collaboration with the Scottish Association for	Rijpfjorden Observatory Program - Kongsfjorden Marine	current										
	Marine Science (SAMS)	Observatory (KROP)											



	a strange and the state				1	1				1	1	1			
Norway &	UiT The Arctic	Kongsfjorden	200	7- Daily				x	х	x					
Scotland	University of	Rijpfjorden	curre	nt											
	Norway until 2026	Observatory													
	in collaboration	Program -													
	with the Scottish	Rijpfjorden													
	Association for	Marine													
	Marine Science	Observatory													
	(SAMS)	(KROP)													
Poland	Institute of	Svalbard	198				х	x	x			х			
	Oceanology Polish	Intertidal Project	curre	nt summer											
	Academy of	-													
	Sciences (IOPAS)	Daudmannsodd													
		en													
Poland	Institute of	Svalbard	198	B- Once per			х	x	x						
	Oceanology Polish	Intertidal Project	curre	nt summer											
	Academy of	- Poolepynten													
	Sciences (IOPAS)														
Poland	Institute of	Svalbard	198	3- Once per			x	x	x						
1 olullu	Oceanology Polish						X	Â	Â						
	Academy of	- Tønseset	curre	Junit											
	Sciences (IOPAS)	- Tønseset													
			100										 		
Poland	Institute of	Svalbard	198				x	x	x						
	Oceanology Polish		curre	ent summer											
	Academy of	- Hamburgbukta													
	Sciences (IOPAS)														
Poland	Institute of	Svalbard	198	B- Once per			х	x	x						
	Oceanology Polish	Intertidal Project	curre	nt summer											
	Academy of	-													
	Sciences (IOPAS)	Velkomstpynten													
Poland	Institute of	Svalbard	198	B- Once per			x	x	x						
	Oceanology Polish	Intertidal Proiect	curre	nt summer											
	Academy of	- Verlegenhuken													
	Sciences (IOPAS)														
Poland	Institute of	Svalbard	198	B- Once per			x	x	x						
	Oceanology Polish						~		Â						
	Academy of	- Murchison Bay	curre	and summer											
	Sciences (IOPAS)	- wurchison Bdy													
			100												
Poland	Institute of	Svalbard	198				x	x	x						
	Oceanology Polish		curre	ent summer											
	Academy of	- Depotodden													
	Sciences (IOPAS)														



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Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Trollodden	1988- current	Once per summer		x	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	- Kapp Bruun	1988- current	Once per summer		x	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Storøya	1988- current	Once per summer		X	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Isispynten	1988- current	Once per summer		x	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Vibebukta	1988- current	Once per summer		х	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Bennebukta	1988- current	Once per summer		х	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Kapp Lee	1988- current	Once per summer		х	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	-	1988- current	Once per summer		x	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard	1988- current	Once per summer		х	x	x					
Poland	Institute of Oceanology Polish Academy of Sciences (IOPAS)	Svalbard Intertidal Project - Palffyodden	1988- current	Once per summer		х	x	x					



Oceanology Polsity Intervided Project, Sciences (10PA)	Poland	In adda to the	Cually and		1988-	0							1	1				
Academy of Service (DVAS) Calypachyen (Partial) Calypachyen (Poland								x	x	x							
Seiners (DAS) Control					current	summer												
Portugal Centre for Aveing CESAMI University of Centre of Marine end of Environmental Environmental Environmental environmental Environmen			Calypsobyen															
Environmental Sudiess S	Portugal		I TER Ria de		2011-	Varies	Voc	v	v	×		×		v	v	 v		
and Marine Arefore CESMAI University of Centre of Marine and the Marcinometal Science Centre (MARE) CEUS Project: CELARA monitoring in the Marcinometal Portugal Marine and CoastNet- CoastNet- Network CEUS Project: Partice CoastNet- Centre of Marine monitoring in the Marcinometal Portugal Marine and CoastNet- Centre of Marine Marine and Centre of Marine Marine Marine and Centre of Marine	1 of tugui					Varies	105	^	×	~		Â		^	~	~		
Studies / New restrict / New restrind / New restrict / New restrict / New restri			/weiro		current													
University of Nervices (CESAM) Carlos Forder - CESAM (CINSPORCESAM) Carlos Forder - Casamet monitoring in and environmental sciences Certre (MARE) Casamet Marine and Environmental Sciences Certre (MARE) Casamet Marine and Environmental Sciences Certre (MARE) Casamet Marine and Environmental Sciences Certre (MARE) Mondegoa Marine and Environmental Sciences Certre (M																		
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Portugal and Environmental Research (CIIMAR) CETUS Project- Centre of Marine and Environmental Research (CIIMAR) CETUS Project- Centre of Marine and Environmental Research (CIIMAR) 2012- value Opportunis value Yes Ves V																		
Normalization Cetace in and constructing in the Macaronesia and intermeted Maine and Research in the Company (MARE) Current Nitic is in the Second Maine and Second Maine and CoastNet - Norward Maine and Maine and Maine and Maine and Maine and CoastNet - Norward Maine and CoastNet - No	Portugal		CETUS Project -		2012-	Opportunis	Yes								x			
Centre of Marine and and the Macronesia and the Macronesia and the Macronesia and the Macronesia Environmental Sciences Centre (MARE) Mondego1 2018- Ves <	. or tagar														~			
and Evisionmental Research (CIMAR), University of Porto- and the company TRANSINULA, University of Porto- and the company TRANSINULA, Grupo FT CoastNet Portugies Mondego1 2018- current Daily Yes X Portugiel Marine and Environmental Sciences Centre (MARE) CoastNet- Portugies Mondego2 2018- current Daily Yes X <td< td=""><td></td><td></td><td></td><td></td><td>- current</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>					- current													
Implication Environmental Research (CIMAR), UNNEWRIVE Research (CIMAR), UNNEWRIVE Seesarch (CIMAR), UNNEWRIVE Modego1 2018- Costit Daily Yes X X Seesarch (CIMAR) Seesarch (MARE) Mondego1 2018- Costit Daily Yes X Seesarch (CIMAR) Seesarch (MARE) Mondego1 2018- (Costit Daily Yes X Seesarch (CIMAR) Seesarch (MARE) Mondego1 2018- (Costit Daily Yes X Seesarch (CIMAR) Seesarch (MARE) Mondego2 2018- (Costit Daily Yes X Seesarch (Costit Seesarch (MARE) Mondego2 2018- (Costit Daily Yes X Seesarch (Costit Seesarch (MARE) Mondego2 2018- (Costit Daily Yes X Seesarch (Costit Seesarch (MARE) Mondego3 2018- (Costit Daily Yes X Seesarch (Costit Seesarch (MARE) Seesarch (MARE) Mondego3 2018- (Costit Daily Yes X Seesarch (Costit Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE) Seesarch (MARE)																		
Research (CIMAR), University of Porto and the company Torupo T Research (CIMAR), University of Porto and the company Grupo TF Nondego1 2018 Castal Current Daily Current Yes X X S																		
University of Porto and the company TRANSINSULAR, Grupo ETE Volume and Cossibility Vo																		
and the company Grupo ETE Amine and (MARE) CoastNet- Portugies (MARE) Monicoring Network Monicoring Network Daily Current Yes X <td< td=""><td></td><td>(CIIMAR),</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		(CIIMAR),																
and the company Grupo ETE Amine and (MARE) CoastNet- Portugies (MARE) Monicoring Network Monicoring Network Daily Current Yes X <td< td=""><td></td><td>University of Porto</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		University of Porto																
Grupo ETE ····																		
Portugal Environmental Environmental Environmental Environmental Monitoring (MAR)Mondego12018- currentDaily CurrentYesxxxxxxxPortugal (MAR)Marine and Environmental (MAR)CoastNet - Portugaes Coastal (MAR)Mondego22018- currentDaily xYesxx<		TRANSINSULAR,																
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Network Network CoastNet - Tejo2 2018- Daily Yes x Image: CoastNet - Image: CoastNet																		
Portugal Marine and CoastNet - Tejo2 2018- Daily Yes x A Dialy Xes x		(
	Portugal	Marine and		Tejo2	2018-	Daily	Yes		x									
		Environmental	Portuguese	,	current													



	Sciences Centre	Coastal	1	1											
	(MARE)	Monitoring													
	(MARE)	Network													
Portugal	Marine and Environmental Sciences Centre (MARE)	CoastNet - Portuguese Coastal Monitoring Network	Tejo3	2018- current	Daily	Yes		x							
Portugal	Marine and Environmental Sciences Centre (MARE)	CoastNet - Portuguese Coastal Monitoring Network	Mira1	2018- current	Daily	Yes		x							
Portugal	Marine and Environmental Sciences Centre (MARE)	CoastNet - Portuguese Coastal Monitoring Network	Mira2	2018- current	Daily	Yes		x							
Portugal	Marine and Environmental Sciences Centre (MARE)	CoastNet - Portuguese Coastal Monitoring Network	Mira3	2018- current	Daily	Yes		x							
Portugal	Marine and Environmental Sciences Centre (MARE) - Madeira	MARE-Madeira monitoring programs		2017- current	Annual	Yes				x					
Portugal	Instituto Portuguěs do Mar e da Atmosfera (IPMA)	CASCAIS-WATCH	Cascais Bay	2005- current					x						
Portugal	Centre of Marine Sciences (CCMAR)	CASCAIS-WATCH	Guadiana Estuary (lower)	1996- current	Monthly		x	x							
Romania	National Institute for Marine Research and Development "Grigore Antipa" (NIMRD), Constanta, Romania	Marine Environment Integrated Monitoring Program													



	1		1		· · · · ·		1			1		1 1				
Romania		Monitoring and														
		Conservation of														
		Black Sea														
		Cetaceans														
Romania		Phytoplankton														
		monitoring														
		programme														
		Romanian Black														
		Sea waters														
Romania		Romanian														
		Marine														
		Monitoring														
		Program (Black														
		Sea) -														
		zooplankton														
Russia		Long-Term		1987-	4 times a					x					х	
		Monitoring		present	year											
		Program														
		"Muddy-sandy														
		intertidal flats in														
		Kandalaksha Bay														
		(White Sea)"														
Russia	Zoological	White Sea	Kartesh D1	1957-	Every 10	Yes		x	x	x	х					
	Institute of	Hydrology and		current	days in											
	Russian Academy	Zooplankton			spring/sum											
	of Sciences	Time-Series			mer and											
					monthy in											
					winter											
Russia	Lomonoscov	Annual scientific	Pechora Sea	2016-	Annualy	Yes				x						
	Moscow State	expedition		current												
	Univerisity Marine	"Arctic: step by														
	Research Centre	step", RV														
		Kartesh														
Russia	Lomonoscov	Annual scientific	Pechora Bay	2016-	Annualy	Yes				x						
	Moscow State	expedition		current												
	Univerisity Marine	"Arctic: step by														
	Research Centre	step", RV														
		Kartesh														
Russia	Lomonoscov	Annual scientific	Gulf of Ob	2016-	Annualy	Yes				x						
	Moscow State	expedition		current	· · ·											
	Univerisity Marine															
	Research Centre	step", RV														
		Kartesh														
	1		1	1			1	1		1					1	1



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Slovenia	LTER Europe -> LTER Slovenia	LTER: Gulf of Trieste - Slovenia/Nation al monitoring of the ecological and chemical status of the		1989- current	Varies	Yes	x	x	x	x						x	
		Slovenian sea															
Slovenia	Morigenos – Slovenian Marine Mammal Society	Slovenian Dolphin Project		2002- current										x			
Spain	Balearic Islands Coastal Observing and Forecasting System (SOCIB)	Turtle Tracking	Western Mediterrane an	2010- current	Varies/Dail y	Yes		x				x					
Spain	Balearic Islands Coastal Observing and Forecasting System (SOCIB)	Canales Endurance Lines SOCIB-canales seasonal cruise	Mallorca channel/Ibiz a channel	2014- current	4 per year (1 per season)	Yes		x									
Spain	Balearic Islands Coastal Observing and Forecasting System (SOCIB)	Oceanographic - meteorological buoy monthly sampling	1 fixed station in the Bay of Palma/1 fixed station Ibiza channel	2015- current	Monthly	Yes		x									
Spain	Balearic Islands Coastal Observing and Forecasting System (SOCIB)	Canales glider endurance line missions	(Mallorca channel/Ibiz a channel)	2010- current	6-8 x per year (1 mission of 2 months length approx.)	Yes		x									
Spain	AZTI	Basque monitoring network for the ecological status assessment	Estuaries	1995- current	Every 3 years	Yes		x		x	x				 x	x	
Spain	Ebro Delta Natural Park	LTER Ebro Delta		1983- current	Varies	Yes		x			х		x				
Spain	University of the Basque Country	URDAIBAI 35 Time Series		1997- current	Monthly	Yes			x								



Spain	University of the	BII BAO 35 Time	1997-	Monthly	Yes			x						
Span	Basque Country	Series	current	wonthy	103			^						
Spain	AZTI	AZTI Station D2	1986-	Monthly	Yes		x							
Spain	ALTI	AZTI Station DZ	current	wonthy	163		^							
Spain	Universidad del	Nervion River	2000-				x							
Spain	Pais vasco/Euskal	Estuary E1	current				*							
	Herriko	LStudiyLI	current											
	Univertsitatea													
Casia	Universidad del	Nervion River	2000-										 	
Spain							x							
	Pais vasco/Euskal	Estuary E2	current											
	Herriko Univertsitatea													
		DADIALEC.	1001											
Spain	Instituto Español	RADIALES Santander	1991-	Monthly				x						
	de Oceanografiía		current											
	~ .	Station E4SA	1000											
Spain	Instituto Español	RADIALES A	1988-	Monthly			x	x						
	de Oceanografiía		current											
		E2CO											 	
Spain	Instituto Español	RADIALES	2001-	Monthly			x	x						
	de Oceanografiía	Gijon/Xixon	current											
		Station E2GI											 	
Spain	Instituto Español	RADIALES Vigo	1994-	Monthly			x	x						
	de Oceanografiía	Station E3VI	current											
Spain	Instituto Español	RADIALES	1992-	Monthly				x						
	de Oceanografiía		current											
		E2CU												
Spain	Instituto Español	Mallorca	1994-	4 x per year	Yes			x						
	de Oceanografiía		current											
Spain	Instituto Español	ECOMALAGA	1992-					x						
	de Oceanografiía		current											
Spain/Scot	Asociacion	Balearic Sperm	2003-	Annual	Yes						х			
land	Tursiops and Dr	Whale Project	current											
	Luke Rendell of													
	the University of													
	Saint Andrews													
Sweden	Swedish Agency	Pelagic	1985-	24 x per	Yes	x	x	x						2 milj SEK/year
	for Marine and	monitoring of	current	year										
	Water	the west coast												
	Management													
Sweden	The Swedish													
	Environmental													
	Protection Agency													



1	and Stockholm													
Sweden	University The Swedish											 	 	
Sweden	Environmental													
	Protection Agency													
	and University of Kalmar													
Sweden	The Swedish E													
	Protection Agend													
<u> </u>	Museum of Na										 	 	 	
Sweden		National												
		acoustic												
		monitoring												
		programme of												
		harbour												
		porpoises in												
L		Swedish waters									 			
Sweden	Swedish Agency	Benthic fish		1972-	Annual	Yes				х				
	for Marine and	populations		current										
	Water													
Sweden					Annual	Yes				х				
		populations		current										
Sweden	Swedish Agency	Migratory fish			Annual	Yes				х				
		populations	4	4-current										
	Water													
	Management													
Sweden	Swedish	Swedish		1983-	Monthly	Yes		x	x					
	Meteorological	National		current										
	and Hydrological	monitoring												
Sweden	Swedish Agency	The pelagic		1991-	10x per	Yes	х	x	x					
	for Marine and	marine		current	year									
	Water	monitoring												
	Management and	program												
	Umeå Marine													
	Sciences Centre													
	(UMF), Umeå													
1	University													
Sweden	Management Swedish Agency for Marine and Water Management Swedish Agency for Marine and Water Management Swedish Meteorological and Hydrological Institute (SMHI) Swedish Agency for Marine and Water Management and Umeå Marine Sciences Centre (UMF), Umeå	Swedish National monitoring The pelagic marine monitoring	1	current 1991-	, 10x per	Yes	x							



Sweden	Swedish Agency	Soft-bottom	1	1983-	Annual	Yes				x						
Sweden	for Marine and	macrofauna		urrent	Annuar	103				^						
	Water	macrorauna		uncin												
	Management and															
	Umeå Marine															
	Sciences Centre															
	(UMF), Umeå															
	University															
Sweden	Swedish Agency	Coastal fish	1	1960-	Annual	Yes					х					
	for Marine and	populations	с	urrent												
	Water	P.P														
	Management															
Ukraine		Marine Research	2	2003-	Varies	Yes	х	x		х	х		х		х	
	I. Mechnikov	Station "Zmiinyi	с	urrent												
	University	island"														
United	Department of															
Kingdom	Agriculture,															
-	Environment and															
	Rural Affairs															
	(DAERA)															
United	Centre for	Eutrophication	1	1985-	Varies	Yes	х	х	x		х					
Kingdom	Environment,	Monitoring &	cı	urrent												
	Fisheries and	SmartBuoy in														
	Aquaculture	situ marine														
	Science (Cefas)	monitoring														
United	National	Porcupine	1	1984-	Annual	Yes	х		x	х						
Kingdom	Oceanography	Abyssal Plain	CL	urrent												
	Centre (NOC)	Sustained														
		Observatory														
United	Newcastle	Plankton Dove	1	1969-	Monthly	Yes		х	x							
Kingdom	University	Time Series	CL	urrent												
United	Newcastle	Benthic Dove		1971-	2-4 times	Yes				х						
Kingdom	University and the	Time Series	CL	urrent	per year											
	University of															
	Liverpool															
United	Plymouth Marine	Western		1988-	Weekly	Yes	х	x	x							
Kingdom	Laboratory and	Channel	CL	urrent												
	Marine Biological	Observatory: L4														
	Association	(pelagic)														
United	Plymouth Marine	Western		2008-	Bi-monthly	Yes				х					х	
Kingdom	Laboratory and	Channel	CL	urrent												



	Marine Biological Association	Observatory: L4 (benthic)														
United	Plymouth Marine	Western	 1903-	2 weekly /	Yes		x									
Kingdom	Laboratory and	Channel	current	monthly	163		^									
Kingdom	Marine Biological		current	montiny												
	Association	(pelagic)														
United	Marine Biological	Continuous	 1931-	Monthly	Yes		x	x			 					
Kingdom	Association	Plankton	current	wontiny	ies		×	×								
Kinguoin	Association	Recorder (CPR)	current													
		Survey														
United	Marine Biological	Marine	 1952-	Annual	Yes				~		 				v	
Kingdom	Association	Biodiversity and	current	Annuar	ies				х						х	
Kinguoin	Association	Climate Change	current													
		(MarClim)														
United	Britist Trust for	Wetland Bird	 1947-	Monthly	Citizen						x					
Kingdom	Ornithology	Survey	current	,	science											
United	The Scottish	Deep Sea	1973-	Opportunis					x							
Kingdom	Association for	Benthic	current	tic												
(Scotland)	Marine Science	Biodiversity														
(,	(SAMS)	,														
United	The Scottish	Lorn Pelagic	1970-	Monthly	Yes	х	х									
Kingdom	Association for	Observatory	current													
(Scotland)	Marine Science															
	(SAMS)															
United	The Food	Food Standards	2004-	Varies	Yes		х									
Kingdom	Standards	Agency (FSS)	current													
(Scotland)	Scotland (FSS)	Official Control														
		Phytoplankton														
		monitoring														
		Programme														
United	Scottish	The Scottish	1997-	Weekly	Yes		х	х								
Kingdom	Government	Coastal	current													
(Scotland)		Observatory														
		(SCObs)														
United	Natural Resource	Intertidal														
Kingdom	Wales	Protected Site														
(Wales)																
United	Natural Resource	Marine	1982-	Varies	Yes	х	х	х	х	х	х	х	х	х	x	
Kingdom	Wales	Monitoring	current													
(Wales)		Programme														



United	Natural Resource	Skomor Marino													
Kingdom	Wales	Nature Reserve													
(Wales)	wales	Nature Reserve													
Regional	Reef Life Survey	Reef Life Survey	2010-	Opportunis	Yes				x	x			x		
			current	tic											
Regional		LifeWatch													
-		Biodiversity													
		Observatory-													
		Belgium													
Regional		Ocean Tracking													
		Network													
Regional		eOceans	2011-	Opportunis	Citizen					х					
			current	tic	science										
Regional	Conservation of	CAFFs	1991-	Varies	Yes	х	x	x	x	x	х	х			
	Arctic Flora and	Circumpolar	current												
	Fauna and many	Biodiversity													
	partners	Monitoring													
	https://www.caff.i	Program (CBMP)													
	s/cbmp-partners														
Regional	Fod Standards	Phytoplankton					x								
	Agency	monitoring													
		(Northern													
		Ireland, England													
Regional		and Wales) CEMP Long term													
Regional		Benthos													
Regional		National													
Regional		Research													
		Infrastructure -													
		Norwegian													
		Marine Data													
		Centre													
Regional		Coastal													
		biodiversity in													
		rocky shores													
		across the													
		Atlantic coast of													
		Europe													
Regional		Small Cetacean													
		Abundance in													
		the European													



		Atlantic and												
		North Sea												
Regional		UK Grey and												
		harbour seal												
		abundance and												
		distribution												
Regional	European Marine		2017-	Annual	Yes	х	х	x			х			
	Biological	programme	current											
	Resource Centre													
	(EMBRC)							 						
Regional		Bathing Water												
		Monitoring												
Desisual		Programme												
Regional		ORCA												
Regional		Deep-Sea												
		Research												
		Program												
Regional	SeagrassNet	SeagrassNet -	2001-	Varies	Yes							х		
		Global	current											
		Monitoring												
		Program												
Regional	HELCOM: The	FISH-PRO III	2018-	Annual	Yes				x					
	Baltic Marine		2023											
	Environment													
	Protection													
	Commission													
	(Denmark, Estonia, the													
	European Union,													
	Finland, Germany,													
	Latvia, Lithuania,													
	Poland, Russia and													
	Sweden)													
Regional	The Secchi Disk	The Secchi Disk	2013-	Opportunis	Citizen		x							
	Foundation		current	tic	science									