



Risk of collision with whales in Europe Seas, Jun. 2020

The raster dataset represents the risk of collision of whales with vessels in Europe Seas.

The most vulnerable species from ship strikes are cetaceans and turtles, since they go to the surface to breathe. On the other hand, their migration routes can overlap with shipping lanes. The collisions can produce the death or injury of the animals, and are an important threat for the conservation of these species.

The dataset has been prepared in the context of the development of the first European Maritime Transport Environmental Report (EMSA-EEA report, 2021: <https://www.eea.europa.eu/publications/maritime-transport>).

Simple

Date (Creation)	2019-11-01				
Date (Publication)	2020-06-16				
Edition	01.00				
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Citation identifier	DAT-252-en				
Point of contact	Organisation name		Individual name	Electronic mail address	Website Role
	European Environment Agency			sdi@eea.europa.eu	http://www.eea.europa.eu Point of contact
	European Environment Agency			sdi@eea.europa.eu	http://www.eea.europa.eu Custodian

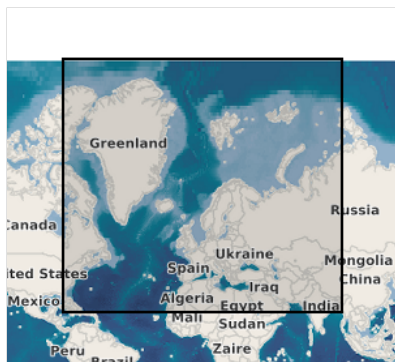
Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none">Species distribution
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none">marine ecosystemriskenvironmentshipwhalemarine environmentseaoceanaquatic environmentenvironmental qualitymarine biology

Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • Bay of Biscay • Northeast Atlantic Ocean (40W) • Iceland Sea • Kattegat • English Channel • Norwegian Sea • North Sea • Adriatic Sea • Celtic Sea • Barents Sea • Baltic Sea • Mediterranean Sea • Ionian Sea • Black Sea
Spatial scope	<ul style="list-style-type: none"> • European
EEA Management Plan	<ul style="list-style-type: none"> • 2021 1.2.5
EEA topics	<ul style="list-style-type: none"> • Biodiversity • Seas and coasts • Nature protection and restoration • Transport and mobility
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).
Spatial representation type	Grid
Distance	0.5 deg
Distance	1 km
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Environment • Oceans

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Begin date	2019-10-01		
End date	2019-10-31		
Coordinate reference system identifier	EPSG:3035		
Distribution format	<ul style="list-style-type: none"> GeoTIFF () 		
OnLine resource	Protocol EEA:FOLDERPATH WWW:URL ESRI:REST OGC:WMS WWW:LINK-1.0-http--link	Linkage https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_risk-collision_p_2019_v01_r00/Risk_of_WhaleShip_collision_ShippingLnTransformed.tif https://sdi.eea.europa.eu/data/22ad5ddf-967d-4ce7-9933-f7ac89e0b638 https://water.discomap.eea.europa.eu/arcgis/rest/services/Marine/Risk_of_collision_with_whales/MapServer https://water.discomap.eea.europa.eu/arcgis/services/Marine/Risk_of_collision_with_whales/MapServer/WMServer?request=GetCapabilities&service=WMS https://www.eea.europa.eu/publications/maritime-transport	Name Direct download European Maritime Transport Environmental Report 2021
Hierarchy level	Dataset		

Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	<p>The risk of collision with whales was created using the EMODnet Human Activities Vessel Density Map 2017, considering all ships, and taking the year average value, together with expert reviewed whale distribution models from AQUAMAPS, version 10/2019 (https://www.aquamaps.org/) for whales that are regarded as having a risk of colliding with ships. Regarding the EMODnet vessel density raster, values over 100 were truncated to 100 to remove high value cells due to ships idling in ports or anchoring sites with their AIS transponders turned on. Distribution model values for blue whale, sei whale, humpback whale, sperm whale, fin whale and northern right whale were summed per 0.5-degree c-squares. The northern right whale model only describes the range of the western population of this species, since the eastern population is probably almost extinct. Thus, the northern right whale model only partly overlaps with the EEA area on interest. Lastly, the summed distribution models were multiplied with the truncated EMODnet vessel density data, which were log transformed (ln+1).</p>
Source	<ul style="list-style-type: none"> Probability of whales occurrence in Europe Seas, Jun. 2020 https://www.emodnet-humanactivities.eu/search-results.php?dataname=Vessel+Density+

Metadata

File identifier	22ad5ddf-967d-4ce7-9933-f7ac89e0b638 XML		
Metadata language	English		
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Hierarchy level	Dataset		
Date stamp	2024-03-05T13:36:27.878Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address
	European Environment Agency		sdi@eea.europa.eu
			Website Role
			Point of contact

Overviews



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