



Temporal development of the ratio between the number of warm-favouring (Lusitanian) fish species and the number of cool-favouring (Boreal) fish species (1965-2016), May. 2020

This metadata describes the ICES data on the temporal development of the Lusitanian/Boreal species ratio in the period from 19657 to 2016.

Key message: The ratio between the number of Lusitanian (warm-favouring) and Boreal (cool-favouring) species are significantly increasing in several North-East Atlantic marine areas whereas there is no significant changes in all the southern areas. Changes in ratios are most apparent in the North Sea, Irish Sea and West of Scotland. Furthermore, it seems that Lusitanian species have not spread in all northward directions, but have followed two particular routes, through the English Channel and north around Scotland

Blue dots indicates L/B ratios below 1 (dominance of Boreal species)

Yellow dots indicates L/B ratios ≥ 1 and < 2 (dominance of Lusitanian species)

Red dots indicates L/B ratios ≥ 2 (high dominance of Lusitanian species)

The dataset is derived from the ICES data portal 'DATRAS' (the Database of Trawl Surveys). DATRAS is an online database of trawl surveys with access to standard data products. DATRAS stores data collected primarily from bottom trawl fish surveys coordinated by ICES expert groups. The survey data are covering the Baltic Sea, Skagerrak, Kattegat, North Sea, English Channel, Celtic Sea, Irish Sea, Bay of Biscay and the eastern Atlantic from the Shetlands to Gibraltar. At present, there are more than 56 years of continuous time series data in DATRAS, and survey data are continuously updated by national institutions.

The dataset has been used in the EEA Indicator "Changes in fish distribution in European seas" <https://www.eea.europa.eu/data-and-maps/indicators/fish-distribution-shifts/assessment-1>.

The dataset has been used for this static map: <https://www.eea.europa.eu/en/analysis/indicators/changes-in-fish-distribution-in-temporal-development-of-the-ratio>

Simple

Date (Creation)	2020-01-07				
Date (Publication)	2020-05-27				
Edition	01.00				
Citation identifier	eea_v_4258_arcmin_lb-species-ratio_p_1965-2016_v01_r00				
Status	Superseded				
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		Owner

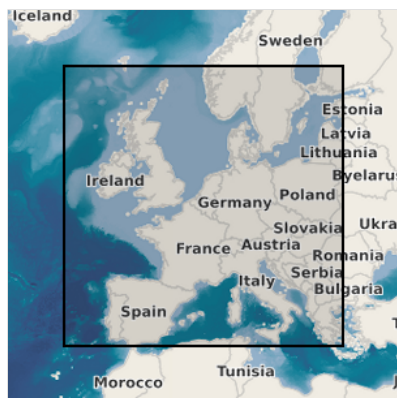
Point of contact

No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> Species distribution
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> animal species

	<ul style="list-style-type: none"> • migratory fish • fishery • climate
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • Skagerrak • Central Baltic Sea • Bay of Biscay • English Channel • Celtic Sea • Atlantic Ocean • Irish Sea • Kattegat • North Sea • MSFD subregion
Spatial scope	<ul style="list-style-type: none"> • European
EEA topics	<ul style="list-style-type: none"> • Seas and coasts • Fisheries and aquaculture • Climate
Temporal resolution	<ul style="list-style-type: none"> • Continual
Access constraints	Other restrictions
Other constraints	no limitations to public access
Use constraints	Other restrictions
Other constraints	<p>ICES data can be downloaded for free. Detailed terms of use can be accessed here: https://www.ices.dk/data/guidelines-and-policy/Pages/ICES-data-policy.aspx.</p> <p>Users must acknowledge data sources from ICES, as it is not ethical to publish data without proper attribution or co-authorship. Any person making substantial use of data must communicate with the data provider prior to publication, and should possibly consider the data provider(s) for co-authorship of published results.</p> <p>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).</p>
Spatial representation type	Vector
Distance	30 arcmin
Distance	1 deg
Language of dataset	English
Topic category	<ul style="list-style-type: none"> • Environment • Biota • Oceans

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Begin date	1965-01-01		
End date	2016-12-31		
Coordinate reference system identifier	EPSG:4258		
Distribution format	<ul style="list-style-type: none"> SHP () 		
OnLine resource	Protocol EEA:FOLDERPATH WWW:LINK-1.0-http--link WWW:URL OGC:WMS	Linkage https://sdi.eea.europa.eu/webdav/datastore/public/eea_v_4258_arcmin_lb-species-ratio_p_1965-2016_v01_r00/ https://www.eea.europa.eu/data-and-maps/explore-interactive-maps/temporal-development-of-the-lusitanian https://sdi.eea.europa.eu/data/565db295-0d63-4e22-87e9-c812bc8db13f https://www.arcgis.com/home/webmap/viewer.html?url=https%3A%2F%2Fmarine.discomap.eea.europa.eu%2Farcgis%2Frest%2Fservices%2FMarine%2FTime_line_WISE_Marine%2FMapServer&source=wms	Name EEA web site Direct download
OnLine resource	Protocol ESRI:REST	Linkage https://marine.discomap.eea.europa.eu/arcgis/rest/services/Marine/Time_line_WISE_Marine/MapServer	Name
Hierarchy level	Dataset		

Conformance result

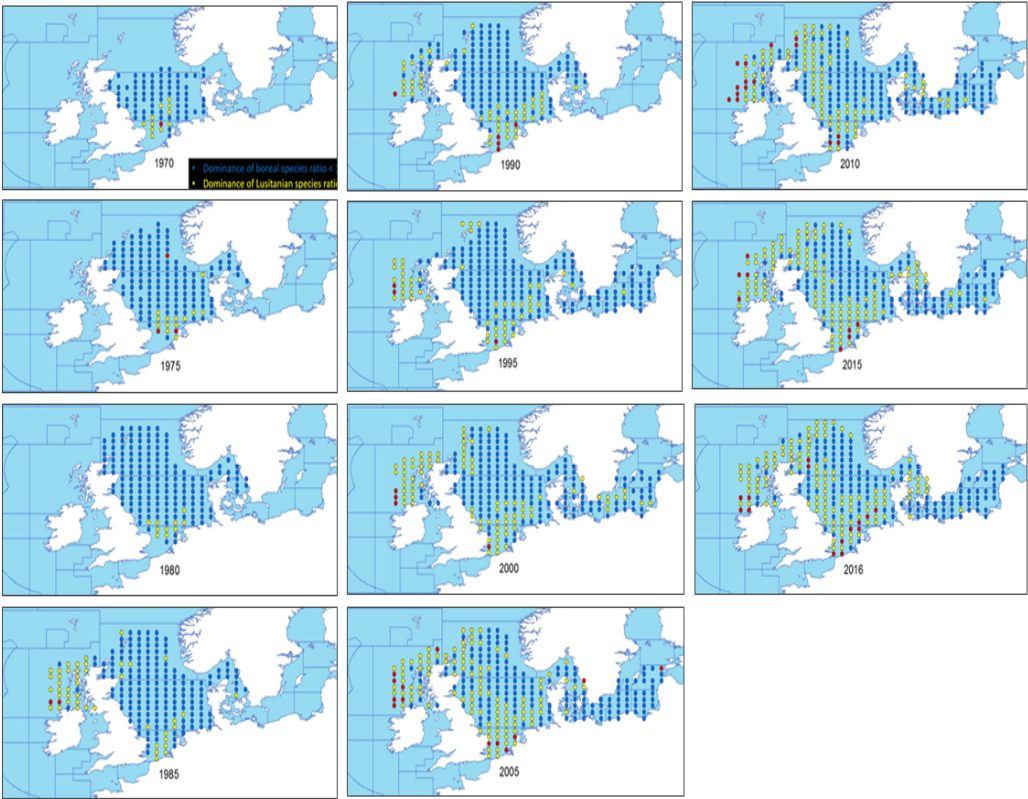
Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	<p>The dataset is based on the ICES statistical rectangles. ICES statistical rectangles provide a grid covering the area between 36°N and 85°30'N and 44°W and 68°30'E. The dataset describes the center coordinate of the rectangles. More information about the ICES statistical rectangles can be accessed here:</p> <p>https://www.ices.dk/data/maps/Pages/ICES-statistical-rectangles.aspx</p> <p>The dataset is extracted from DATRAS which is an online database of trawl surveys with access to standard data products. DATRAS (the Database of Trawl Surveys) has been developed to collate and document the survey data, assure data quality, standardise data formats and calculations, and ease data handling and availability. With the possibility for instant remote access, the data from DATRAS are used for stock assessments and fish community studies by the ICES community and public users. More information about DATRAS can be accessed here: https://www.ices.dk/data/data-portals/Pages/DATRAS.aspx.</p>

ICES metadata on DATRANS can be accessed here: <https://gis.ices.dk/geonetwork/srv/eng/catalog.search#/metadata/68a3376b-c85c-4b4e-a6b8-8ebea73bb427>

Metadata

File identifier	565db295-0d63-4e22-87e9-c812bc8db13f XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2025-01-13T15:49:21.593591Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail addressWebsite Role
	European Environment Agency		sdi@eea.europa.euPoint of contact

Overviews



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