

JRC Dataset

EMIS - Favourable Feeding habitat of Hake (0-15cm) in the Mediterranean Sea Annual climatology 2003-2015 (frequency of occurrence, %)

Description:

Feeding habitat (percent of occurrence) of Hake (0-15cm) in the Mediterranean Sea 2003-2015 (c.f.: Modelling of european hake nurseries in the mediterranean sea: an ecological niche approach - DRUON Jean-Noel; FIORENTINO Fabio; MURENU Matteo; KNITTWEIS Leyla; COLLOCA Francesco; OSIO GIACOMO CHATO; MERIGOT Bastien; GAROFALO Germana; MANNINI Alessandro; JADAUD Angelique; SBRANA M.; SCARCELLA Giuseppe; TSERPES G.; PERISTERAKI Panagiota; CARLUCCI R.; HEIKKONEN Jukka (Publications Office of the European Union. JRC90269. doi:10.1016/j.pocean.2014.11.005 (<http://publications.jrc.ec.europa.eu/repository/handle/JRC90269>))

Contributors:

- Druon, Jean-Noel jean-noel.druon@ec.europa.eu

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Druon, Jean-Noel(2016): EMIS - Favourable Feeding habitat of Hake (0-15cm) in the Mediterranean Sea Annual climatology 2003-2015 (frequency of occurrence, %). European Commission, Joint Research Centre (JRC) [Dataset] PID: <http://data.europa.eu/89h/24254db1-79ab-4157-bb7a-ba2a7da9081c>

Keywords:

Habitats and biotopes, chlorophyll-a, feeding habitat, fine whales, front, marine environment, western Mediterranean Sea

Related resources:

Data access

EMIS Marine Maps - WMS

Web Map Service (WMS) - GetCapabilities

<https://marinemaps.jrc.ec.europa.eu/geoserver/ows/?service=WMS&version=1.1.0&request=GetCapabilities>

EMIS Marine Maps Platform (SDI)

The dataset is available for download as GeoTIFF, png, KML,...

https://marinemaps.jrc.ec.europa.eu/layers/geonode:hake_2003_2015_med_feeding

EMIS Marine Maps - WMS

Web Map Service (WMS) - GetMap

<https://marinemaps.jrc.ec.europa.eu/geoserver/wms?version=1.3.0&request=getmap&format=image/png&width=1000&height=364&la>

Publications

MODELLING OF EUROPEAN HAKE NURSERIES IN THE MEDITERRANEAN SEA: AN ECOLOGICAL NICHE APPROACH

Druon J, Fiorentino F, Murenu M, Knittweis L, Colloca F, Osio G, Merigot B, Garofalo G, Mannini A, Jadaud A, Sbrana M, Scarcella G, Tserpes G, Peristeraki P, Carlucci R, Heikkonen J. MODELLING OF EUROPEAN HAKE NURSERIES IN THE MEDITERRANEAN SEA: AN ECOLOGICAL NICHE APPROACH. PROGRESS IN OCEANOGRAPHY 130; 2015. p. 188-204. JRC90269

DOI:[10.1016/j.pocean.2014.11.005](https://doi.org/10.1016/j.pocean.2014.11.005)

Other resources

EMIS Marine Maps - GIS viewer

EMIS Marine Maps: The Spatial Data Infrastructure (SDI) for EMIS is proposed as a marine maps platform to support the assessment and the monitoring of the environmental state and marine biodiversity of the European regional seas.

<https://marinemaps.jrc.ec.europa.eu>

Additional information:

Last Modified: 2016-04-13

Issue date: 2016-04-13

Landing page: <http://emis.jrc.ec.europa.eu/>

Temporal coverage: From: 2003-01-01 – To: 2015-12-31

Language: English

Data theme(s): Environment

EuroVoc domain(s): 52 ENVIRONMENT

EuroVoc concept(s): biotope

Identifier: <http://data.europa.eu/89h/24254db1-79ab-4157-bb7a-ba2a7da9081c>

Geographic information:

Lineage: A model of preferred habitat for the young-of-the-year European hake, *Merluccius merluccius* L., 1758, was developed in the Mediterranean Sea to help defining spatio-temporal protection measures of nurseries. Ecological traits such as growth, mobility, feeding strategy and temperature tolerance of age-0 hake were linked with chlorophyll-a fronts, sea bottom current and temperature of the shelf and shelf break to highlight favourable nursery habitats. The results show that hake nurseries require stable bottom temperature (11.7-15.0oC), low bottom currents (< 0.034m.s-1) and a frequent occurrence of productive fronts in low chlorophyll-a areas (0.1-0.9mg.m-3) to have a successful recruitment. The prediction explains the relative balance between biotic and abiotic drivers of hake recruitment in the Mediterranean Sea and, in particular, that the low recruitment of 2010 and 2011 was mostly caused by large scale atmospheric forcing. This ecological niche modelling approach of potential habitat provides, as a recruitment carrying capacity, essential spatio-temporal information for fisheries management. (Publications Office of the European Union. JRC90269. doi:10.1016/j.pocean.2014.11.005 (<http://publications.jrc.ec.europa.eu/repository/handle/JRC90269>))

Geographic bounding box: 46° N, 37° E, 30° S, -7° W

Coordinate Reference System: ETRS89