JRC Dataset

GMIS - Favourable feeding habitat of adult Atlantic bluefin tuna (ABFT) Monthly 1998-2014 (frequency of occurence, %)

Description:

The favourable feeding habitat of the Atlantic bluefin tuna is daily identified linking their ecological traits with environmental variables from satellite remote sensing and physical ocean models. The feeding habitat is mostly related to the occurrence of productive oceanic features (such as eddies) that are detected by satellite sensors of ocean colour (chlorophyll-a fronts). The physical variables used are sea surface temperature and sea surface height anomaly. More information: https://fishreg.jrc.ec.europa.eu/fish-habitat, Peer-reviewed publication: http://www.sciencedirect.com/science/article/pii/S0079661116000070

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How to cite:

Druon, Jean-Noel(2016): GMIS - Favourable feeding habitat of adult Atlantic bluefin tuna (ABFT) Monthly 1998-2014 (frequency of occurence, %). European Commission, Joint Research Centre (JRC) [Dataset] PID: http://data.europa.eu/89h/ad7cc5e4-1b4d-40aa-82f6-ca987048edfc

Keywords:

Atlantic bluefin tuna, Environmental monitoring facilities, Feeding Habitat, GIS digital format, Marine protected area, Ocean model, Oceanographic geographical features, Protected sites, climate change, environmental data, marine environment, marine monitoring, ocean color, satellite observations

Related resources:

Data access

GMIS - Download access (GMIS_BFT500_FH)

Direct NetCDF download

http://gmis.jrc.ec.europa.eu/gmis/indices/

Publications

Habitat suitability of the Atlantic bluefin tuna by size class: an ecological niche approach

Druon J, Fromentin J, Hanke A, Arrizabalaga H, Damalas D, Ticina V, Quilez-Badia G, Ramirez K, Arregui I, Tserpes G, Reglero P, Deflorio M, Oray I, Karakulak S, Megalofonou P, Ceyhan T, Grubisic L, Mackenzie B, Lamkin J, Afonso P, Addis P. Habitat suitability of the Atlantic bluefin tuna by size class: an ecological niche approach. PROGRESS IN OCEANOGRAPHY 142; 2016. p. 30-46. JRC96598

DOI:10.1016/j.pocean.2016.01.002

Additional information:

Last Modified: 2013-06-11

Issue date: 2016-01-14

Landing page: http://gmis.jrc.ec.europa.eu/

Temporal coverage: From: 1998-01-01 – To: 2014-12-31

Language: English

Data theme(s): Environment

EuroVoc domain(s): 36 SCIENCE; 52 ENVIRONMENT

EuroVoc concept(s): environmental monitoring; ocean; oceanography; protected area

Identifier: http://data.europa.eu/89h/ad7cc5e4-1b4d-40aa-82f6-ca987048edfc

Geographic information:

Lineage: General information: Model performance is assessed against the distance of presence data to closest habitat. For juvenile bluefin tuna, 75% of observations are closer than 0.7 km of favourable feeding habitat (n = 952). For adult bluefin tuna, 75% of observations are closer than 6.5 km of favourable feeding habitat (n = 6270).

Geographic bounding box: 70.0° N, 42.0° E, 10.0° S, -30.0° W

Coordinate Reference System: ETRS89