

## JRC Dataset

### GMIS - Favourable feeding habitat of skipjack tuna (SKJT) Monthly 1998-2014 (frequency of occurrence, %)

#### Description:

The favourable feeding habitat of skipjack 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, sea surface salinity, sea surface current, sea surface dissolved oxygen, mixed layer depth and sea surface height anomaly. More information: <https://fishreg.jrc.ec.europa.eu/fish-habitat>, Peer-reviewed publication: <https://www.frontiersin.org/articles/10.3389/fmars.2017.00315/full>

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#### Keywords:

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

#### Related resources:

##### Data access

GMIS - Download access (GMIS\_skipjack\_tuna)

Direct NetCDF download

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

##### Publications

Skipjack tuna availability for purse seine fisheries is driven by suitable feeding habitat dynamics in the Atlantic and Indian Oceans

Druon, J., Chassot, E., Murua, H. and Lopez, J., Skipjack tuna availability for purse seine fisheries is driven by suitable feeding habitat dynamics in the Atlantic and Indian Oceans, FRONTIERS IN MARINE SCIENCE, 2017, ISSN 2296-7745, 4, p. 315, JRC107143.

DOI:[10.3389/fmars.2017.00315](https://doi.org/10.3389/fmars.2017.00315)

#### Additional information:

Last Modified: 2013-06-11

Issue date: 2017-10-10

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/f9959d83-f2a9-4f38-b0bb-bd458ad94377>

## Geographic information:

Lineage: General information: Model performance is assessed against the distance of presence data to closest habitat. For skipjack tuna, 75% of observations related to free-swimming schools are closer than 38.5 km of favourable feeding habitat (n = 7110, less than 90 km in the Atlantic [n = 2806] and less than 5 km in the Indian Ocean [n = 4304]). For skipjack tuna, 75% of observations related to fishing aggregating devices are closer than 42.2 km of favourable feeding habitat (n = 30413, less than 200 km in the Atlantic [n = 3455] and less than 22 km in the Indian Ocean [n = 26958]).

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

Coordinate Reference System: ETRS89