International Council for the Exploration of the Sea

Mission:
To advance and share scientific understanding of marine ecosystems and services they provide and use this knowledge to generate state-of-the-art advice for meeting conservation, management, and sustainability goals.
ICES managed data flows

- Hydrographical conditions
- Contaminants
- Marine litter
- Energy incl. Underwater Noise
- Sea-floor integrity
- Eutrophication
- Biodiversity
- Commercial fish and shellfish
31 Managed dataflows, 475 Code Collections

https://data.ices.dk

https://vocab.ices.dk/
Regional Sea Collaboration

Hazardous Substances Assessment (HARSAT) OSPAR, HELCOM, AMAP, ICES joint work
Cetaceans

Cetaceans (whales, dolphins and porpoises) data to understand their abundance and distribution

This portal assembles at-sea effort-related data collected via ship-based or aerial methods, collated under the Joint Cetacean Database Programme (JCDP).

The JCDP aims to streamline the process of accessing and utilising these data by collating the existing and forthcoming cetacean evidence base into a single resource. These data have a wide range of applications and have the potential to support analyses at a range of spatial and temporal scales. For more information, visit the JCDP hub (see links).

How to Cite

Joint Cetacean Data Programme (JCDP) (https://cetaceans.ices.dk), 2022, ICES, Copenhagen

View full dataset metadata

GUIDES AND STANDARDS

- Feedback form
- Data format
- JCDP hub
- JCDP Data Standard and Resources

Development of this portal was funded by DEFRA (UK)

<table>
<thead>
<tr>
<th>Current data providers</th>
<th>Number of surveys</th>
<th>Kilometres of survey effort</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>323</td>
<td>255 062</td>
</tr>
<tr>
<td>Number of unique species</td>
<td>Temporal coverage</td>
<td>Number of observations</td>
</tr>
<tr>
<td>31</td>
<td>2005 - 2022</td>
<td>15 954</td>
</tr>
</tbody>
</table>

Total survey effort in kilometres per year

Select data access

Ecoregion

- Bay of Biscay and the Iberian Coast
- Baltic Sea
- Celtic Seas
- Greater North Sea
- Norwegian Sea
- OSPAR Area
  - Wider Biscay and Iberian Coast - OSPAR region IV
  - Wider Atlantic - OSPAR region V

Number of surveys

- [1 to 4] survey(s)
- [5 to 8] survey(s)
- [9 to 12] survey(s)
- [13 to 18] survey(s)
European Seabirds At Sea

Monitoring data on seabirds and marine mammals
European seabirds at sea (ESAS) contains data on seabirds and marine mammals. This international database includes data from the North Sea and large parts of the North Atlantic Ocean as well. It forms the basis of the European seabirds at sea data collection method and a first comprehensive data catalogue for European seabirds at sea.

How to cite
European Seabirds At Sea (ESAS). 2022. ICES, Copenhagen, Denmark. https://www.ices.dk.

Select a data theme

[Diagram of data theme selection]

Data themes available in the selected theme:

- Marlocco (by www.marlocco.org)
- North Sea (by www.marlocco.org)
- Baltic Sea (by www.marlocco.org)
- Eastern North Atlantic (by www.marlocco.org)
- Western North Atlantic (by www.marlocco.org)

- Download data

- View data format

- Quality control checks

- Data access conditions

- Data labelling

- Data format

- Data storage, access, sharing

- Data lineage

- Data quality

[Diagram of data theme selection]
Understanding the flow

http://ices.dk/publications/library/
Data Challenges – a wider perspective

Concerns of Misuse
- Appropriate Credit
- Sensitive information
- Ownership/permission
- Costs of sharing
- Time to share

What problems/concerns, if any, do you have with sharing datasets?

- Concerns about misuse of data: 43%
- Not receiving appropriate credit: 39%
- Unsure about copyright and data licensing: 35%
- Contains sensitive information: 30%
- I am unsure I have permission from my funder: 25%
- Organising data in a presentable and usable way: 26%
- Costs of sharing data: 26%
- Lack of time to deposit data: 21%
- Another lab may 'scoop' me to a discovery: 20%
- I'm not sure I've exhausted all the potential...: 16%
- I do not know what repository to use: 14%
- Another lab may make a different interpretation: 13%
- Data are too large to share: 12%
- Data are too small or unimportant: 9%
- I have no problems/concerns about sharing data: 9%
- Others may not be able to repeat my findings: 3%
- Others may find errors in my data: 4%
- I have no desire to share my data: 2%

https://doi.org/10.6084/m9.figshare.17081231
Data policy

Public Open Access
- Typically collected with public funds but also industry derived
- 85% of data holdings at ICES
- Acknowledgement/Citation
- No commercial restriction
- No moratoriums

Restricted Access
• Related to legislation i.e. EU Data Collection Framework
• Economically or biologically sensitive
• Governance groups including data providers
• Access is determined by use-case

https://doi.org/10.17895/ices.pub.8883
You are free to:

Share — copy and redistribute the material in any medium or format

Adapt — remix, transform, and build upon the material for any purpose, even commercially.

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No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.
It's not quantum physics

Unlike Schrödinger's cat, data cannot be simultaneously open access and restricted, you need to choose.
On user stories

Focus on ‘features’ and don’t think about the detail (not yet anyway)

Example
https://github.com/ices-eg/WGJCDP-Cetaceans/issues/32