

# Where can I find publicly available biodiversity data?

These slides focus on DASSH data and the data portals it works in partnership with

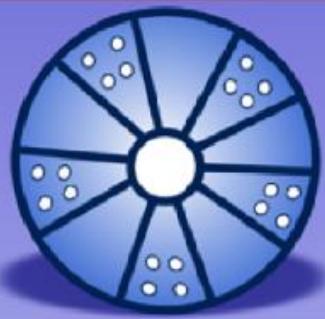
MEDIN

The NBN

EMODnet

OBIS

GBIF

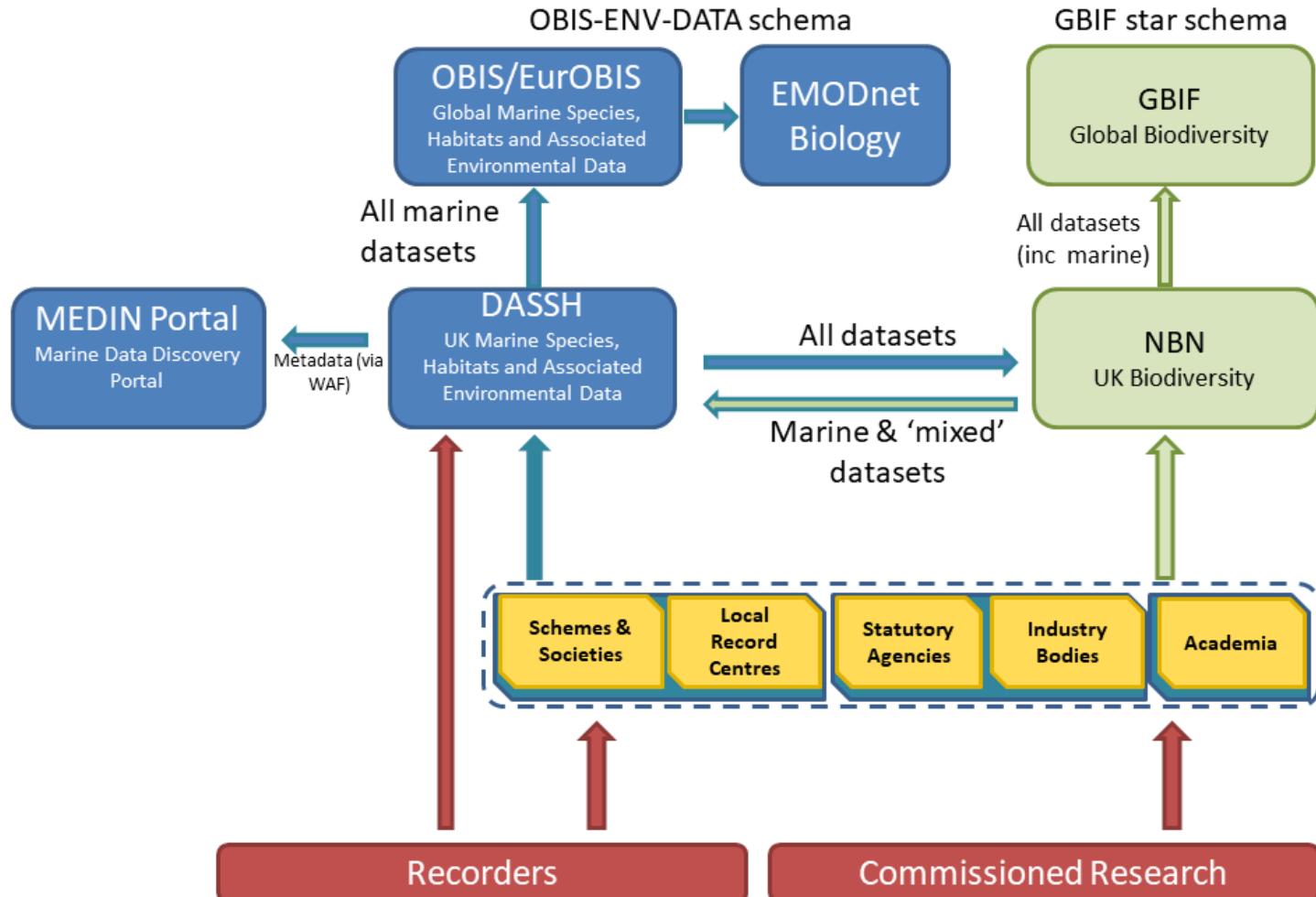
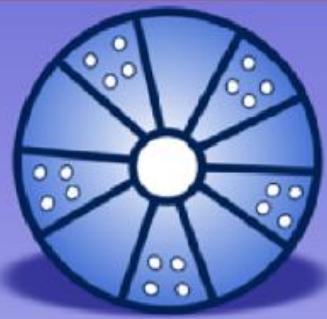


This is a basic, introductory level guide to sources of downloadable biodiversity data.

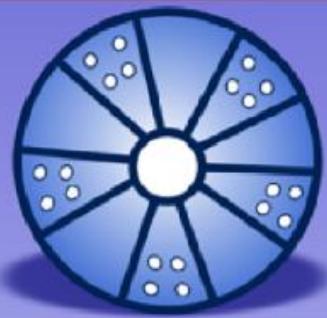
These slides will cover:

- How to search for datasets available through DASSH, MEDIN, NBN Atlas, OBIS, GBIF and EMODnet
- How to download data from these sites and some of the available formats
- How to check the copyright licenses for the datasets

# DASSH data flow- our relationship with data portals.



# Terms...



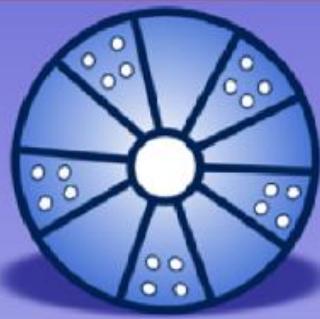
## **Metadata**

Metadata is data that provides information about other data. For example, information like survey date, methodology, the organisation collecting the data, etc.

## **Discovery Metadata**

Metadata that is used to help a user search and identify what they are looking for.

# DASSH (The Archive for Marine Species and Habitats Data)



Please visit our website for more information about DASSH and what we do:  
<https://www.dassh.ac.uk/>

DASSH datasets are available from the following:

- Records search- <https://www.dassh.ac.uk/data/search-data>
- IPT- <https://www.dassh.ac.uk/ipt/>
- Geoserver- <https://www.dassh.ac.uk/Geoserver/web/>

Please check the ‘More information about DASSH data’ slides, for more information about what is available and project ideas.

# Records Search

Use the search functions on the DASSH website to search for species occurrence data. Use the search boxes to search for species by **scientific name**, or search by data owner, survey name and originator.

The search results can be downloaded in a few formats, namely CSV and formats for representing geographic data.

**DASSH Records Search**

This online tool allows you to search for, and download, records from the DASSH data archive, complete with geospatial information to allow you to create your own maps of the data. You can use the bounding box filter to restrict your search to a specific geographical area, delimited by the bounding box. The Survey, Species, Originator and Owner fields carry out a search for whatever text you enter using a "LIKE" query - i.e. if the text you enter appears anywhere in the named field, the record is returned (for example, entering "ab" will return "abra alba"). The fields in the search form are additive. If you fill in more than one search field, the search will only return records where every search criterion is met. This can be useful to, for example, look for particular species within a particular geographical limit.

To add a bounding box to the map, click on the ■ control and draw your bounding area.

[Zoom Out](#) [Clear Bounding Box](#)

Bounding Box (Entered via Map)

Survey Name

Species

Originator

Owner

[Search](#)

Show per page:  [Search:](#)

Project Name	Survey Start Date	Survey Name	Originator	Owner	Sampling Device	Latitude	Longitude	Sample Date	Taxon Name	Aphia ID	Abundance	Abund Units
No data available in table												

Showing 0 to 0 of 0 entries

[Previous](#) [Next](#)

Export Your Search Results as [CSV](#) [Export Data](#)



# Records Search

Create a bounding box on the map to refine your search area.

Scroll around on the map to zoom in on areas of interest and view search results.

To add a bounding box to the map, click on the ■ control and draw your bounding area.

[Zoom Out](#) [Clear Bounding Box](#)

Bounding Box (Entered via Map)

Survey Name

Species

Eriocheir sinensis

Originator

Owner

Search

Show per page: 10 ▾

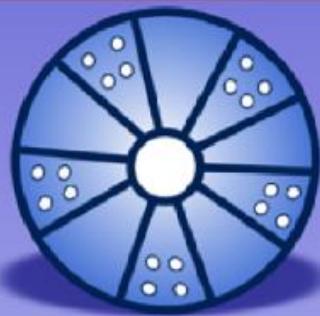
Search:

Project Name	Survey Start Date	Survey Name	Originator	Owner	Sampling Device	Latitude	Longitude	Sample Date	Taxon N
Unavailable	2007-09-13Z	2007-2015 Natural Resource Wales Welsh records for Eriocheir sinensis and Grateloupia turuturu	3254: Natural Resources Wales (NRW)	3254: Natural Resources Wales (NRW)	Unavailable	53.18622	-2.88537	2010-09-03Z	Eriocheir s

More detailed information about the search results appears in the bottom of the page. This includes a link to the datasets MEDIN portal discovery metadata.

Use the search boxes to search for species by **scientific name**, or search by data owner, survey name and originator.

# Records Search

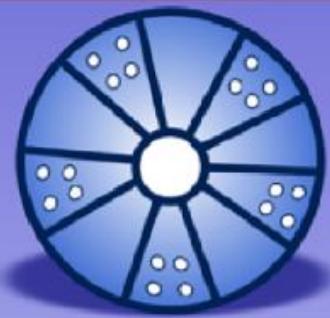


If you are unfamiliar with the different file formats, I generally would recommend selecting CSV.

If you download the search results as a CSV, you may download multiple files. Check them to see which one contains your search result.

The files you download will be called **combined\_data** and **fullflat**, depending on which of our databases the data is stored in.

# Reading the CSV file

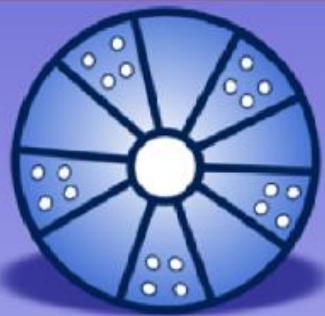


Open the document in Excel and have a look through it.

There will be columns for information about the records themselves, including location, time and date if it is known.

Other information about the dataset will include the name of the survey, owner and licence you can use the data under.

The licenses of the different records depend on the wishes of the data owner, so they won't all be the same. Think about what you are using the data for, and remove the records with licenses that are in conflict with your project. For example, if you are using the data for a commercial purpose and the license states it is for non commercial use.



# Reading the CSV file

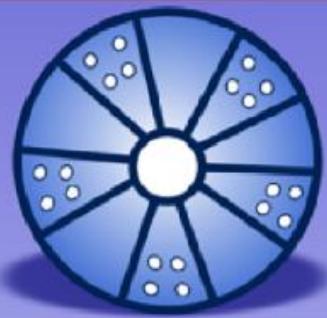
For more information about the dataset and its reuse conditions, there is a url to the MEDIN portal discovery metadata in each row (**metadata\_url**).

DASSH is currently in the process of updating the license conditions of datasets it holds to streamline and clarify the terms for data users.

If you are unsure about the content of the license column, check the MEDIN portal link first, and the DASSH terms and conditions page  
<https://www.dassh.ac.uk/terms-and-conditions>.

If in doubt, you can contact us [dassh.enquiries@mba.ac.uk](mailto:dassh.enquiries@mba.ac.uk)

# Reading the CSV file



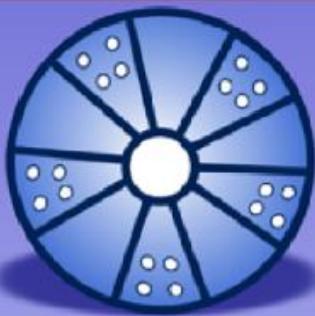
If the dataset is ‘from literature’ then it has been gathered from a published and publicly viewable source. Check the MEDIN portal to learn about the original source of the dataset.

Each data set should be independently acknowledged.

To identify how many datasets you will need to acknowledge, you can copy and paste the data onto another tab in excel, remove all columns except the survey\_name, originator, dataset\_owner and metadata\_url columns. Use excel functions to remove any duplicate rows. Check the MEDIN portal links to find when the data was published. You should cite each of these remaining datasets.

This is because there may be multiple records in your CSV file that come from the same dataset. This will stop you repeating citations.

# IPT



<https://www.dash.ac.uk/ipt/>

Please note that the IPT  
is a tool created by GBIF  
and is not the same as  
the GBIF website

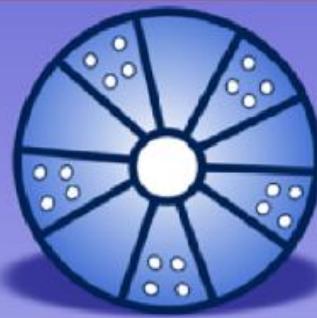
Check columns for the dataset names, dataset types and number of records held in the dataset

Filter function checks for matches in the 'Name' column

Information about publication dates

**Hosted resources available through this IPT**

Logo	Name	Organisation	Type	Subtype	Records	Last modified	Last publication	Next publication
-	<a href="#">1743-2010 National Marine Aquarium (NMA) United Kingdom Marine Fish Recording Scheme</a>	Not registered	Sampling event	--	<a href="#">2,072</a>	2019-10-16	2019-10-16	--
-	<a href="#">1776-1997 Paul F. Clark North East Atlantic Crab Atlas</a>	Not registered	Sampling event	--	<a href="#">10,989</a>	2019-04-23	2019-04-23	--
-	<a href="#">1778-1998 Ivor Rees North Wales Marine Fauna Ad-hoc sightings shore and ship-based surveys</a>	The Marine Biological Association of the United Kingdom	Sampling event	--	<a href="#">6,631</a>	2019-12-05	2019-12-05	--
-	<a href="#">1848-1982 Lundy Field Society The Marine Fauna of Lundy</a>	Not registered	Sampling event	--	<a href="#">2,591</a>	2019-12-20	2019-12-20	--
-	<a href="#">1915-2016 Department for</a>	The Marine	Sampling	--	<a href="#">9,147</a>	2019-08-	2019-08-02	--



Click on the name of the dataset you would like to download.

You can view more detailed information about the dataset, download options and the copyright license.

There will be a recommended citation that you should use to credit the source of the information you are using.



Summary  
Data Records  
Downloads  
Versions  
How to cite  
Rights  
GBIF Registration  
Keywords  
Contacts  
Geographic Coverage  
Taxonomic Coverage  
Temporal Coverage  
Project Data  
Collection Data  
Bibliographic Citations  
Additional Metadata

## Continuous Plankton Recorder Dataset (CPR Survey) - Phytoplankton

Latest version published by Marine Biological Association on Feb 18, 2021

SAHFOS is unique in having comparable data on the geographical distribution, seasonal cycles and year-to-year changes in abundance of plankton over a large spatial area. There is no other survey in the world with 80 years of marine plankton data.

[Home](#)  [DwC-A](#)  [EML](#)  [RTF](#)  [Versions](#)  [Rights](#)  [Cite this](#)

### Data Records

The data in this occurrence resource has been published as a Darwin Core Archive (DwC-A), which is a standardized format for sharing biodiversity data as a set of one or more data tables. The core data table contains 1,049,061 records.

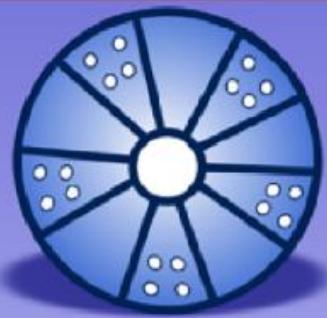
This IPT archives the data and thus serves as the data repository. The data and resource metadata are available for download in the [downloads](#) section. The [versions](#) table lists other versions of the resource that have been made publicly available and allows tracking changes made to the resource over time.

### Downloads

Download the latest version of this resource data as a Darwin Core Archive (DwC-A) or the resource metadata as EML or RTF:

Data as a DwC-A file [download](#) 1,049,061 records in English (26 MB) - Update frequency: annually  
Metadata as an EML file [download](#) in English (44 KB)  
Metadata as an RTF file [download](#) in English (7 KB)

# DASSH Geoserver



The Geoserver contains map layers, including layers from a couple of the VALMER project case studies.

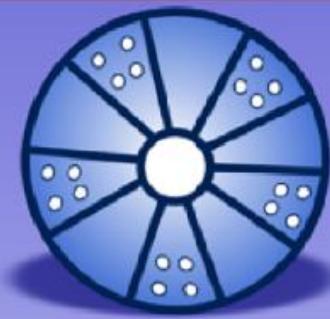
<https://www.dassh.ac.uk/Geoserver/web/>

<http://valmer.marinebiodiversity.org/case-studies-overview/>

The screenshot shows the GeoServer interface with the title "Layer Preview". The page displays a list of 159 configured layers, with the first 25 listed below:

Type	Title	Name	Common Formats	All Formats
Shapefile	CPR Standard Areas	CPR_Survey:CPRStdAreas	OpenLayers KML GML	Select one
Shapefile	Gridded Sample Effort	CPR_Survey:Gridded_Sample_Effort	OpenLayers KML GML	Select one
Shapefile	Gridded Sample Effort Detail	CPR_Survey:Gridded_Sample_Effort_Detail	OpenLayers KML GML	Select one
Shapefile	Gridded Species Data	CPR_Survey:Gridded_Species_Data	OpenLayers KML GML	Select one
Shapefile	Gridded Species Data Detail	CPR_Survey:Gridded_Species_Data_Detail	OpenLayers KML GML	Select one
Shapefile	North Atlantic Samples	CPR_Survey:North Atlantic Samples	OpenLayers KML GML	Select one
Shapefile	Sample locations	CPR_Survey:SampleLocations	OpenLayers KML GML	Select one
Shapefile	Tow vs Sample positions	CPR_Survey:Tow vs Sample positions	OpenLayers KML GML	Select one
Shapefile	TowEvents	CPR_Survey:TowEvents	OpenLayers KML GML	Select one
Line	TowTracks	CPR_Survey:TowTracks	OpenLayers KML GML	Select one
Shapefile	Draft_DWT_Boundary	dassh:Draft_DWT_Boundary	OpenLayers KML GML	Select one

# From the Geoserver

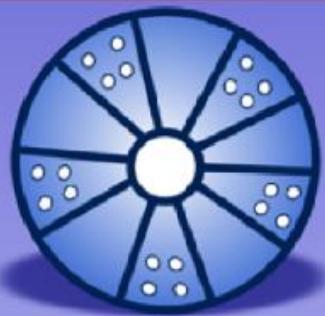


You can select the format you would like to download the map layers in from the dropdown beside the resource title.

Some of the other organisations covered in this resource also have Geoservers with map layers that are available to download.

The screenshot shows a dropdown menu titled "Select one" under the "Common Formats" tab. The menu lists numerous formats, including OpenLayers KML GML, WMS, AtomPub, GIF, GeoRSS, GeoTiff, GeoTiff 8-bits, JPEG, JPEG-PNG, KML (compressed), KML (network link), KML (plain), OpenLayers, OpenLayers 2, OpenLayers 3, PDF, PNG, PNG 8bit, SVG, Tiff, Tiff 8-bits, UTFGrid, and Shapefile. The "Shapefile" option is highlighted with a blue background. A search bar is visible at the top of the menu.

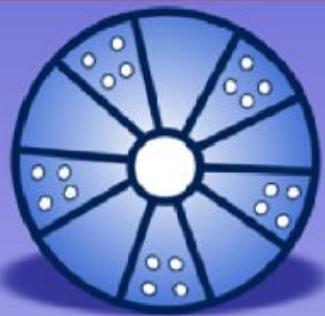
Common Formats	All Formats
OpenLayers KML GML	Select one
OpenLayers KML GML	Select one
OpenLayers KML GML	WMS
OpenLayers KML GML	AtomPub
OpenLayers KML GML	GIF
OpenLayers KML GML	GeoRSS
OpenLayers KML GML	GeoTiff
OpenLayers KML GML	GeoTiff 8-bits
OpenLayers KML GML	JPEG
OpenLayers KML GML	JPEG-PNG
OpenLayers KML GML	KML (compressed)
OpenLayers KML GML	KML (network link)
OpenLayers KML GML	KML (plain)
OpenLayers KML GML	OpenLayers
OpenLayers KML GML	OpenLayers 2
OpenLayers KML GML	OpenLayers 3
OpenLayers KML GML	PDF
OpenLayers KML GML	PNG
OpenLayers KML GML	PNG 8bit
OpenLayers KML GML	SVG
OpenLayers KML GML	Tiff
OpenLayers KML GML	Tiff 8-bits
OpenLayers KML GML	UTFGrid
OpenLayers KML GML	WFS
OpenLayers KML GML	CSV
OpenLayers KML GML	GML2
OpenLayers KML GML	GML3.1
OpenLayers KML GML	GML3.2
OpenLayers KML GML	GeoJSON
OpenLayers KML GML	GeoJSON(JSONP)
OpenLayers KML GML	KML
OpenLayers KML GML	Shapefile



Some sources will open a browser window displaying what the layer will look like. Copy the URL of the browser for a link to the Geoserver. This can be used in GIS software like QGIS to add layers to your map from the DASSH Geoserver.

The screenshot shows a user interface for selecting a data format. On the left, a dropdown menu titled "Select one" lists several options: "OpenLayers", "OpenLayers 2", "OpenLayers 3", "PDF", "PNG" (which is highlighted with a blue background), "PNG 8bit", and "SVG". A large purple arrow points from this menu to a browser window on the right. The browser window displays a map of a coastal area divided into a grid of hexagonal cells, each colored according to a gradient from green to yellow, representing flood risk levels. The URL bar in the browser shows the WMS request: `//www.dassh.ac.uk/geoserver/dassh/wms?service=WMS&version=1.1.0&request=GetMap&layers=dassh%3Aflood_risk_ma`.

SVG, PNG, JPEG, GIF and AtomPub  
are examples of the available  
options that will do this



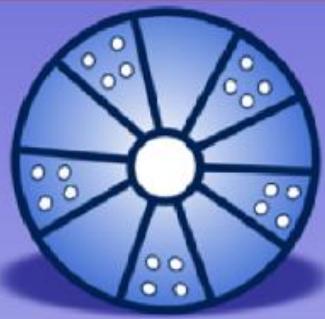
DASSH works in partnership with other UK and European data centres to contribute to international data portals.

These portals are excellent sources of downloadable, publicly available data.



EMODnet

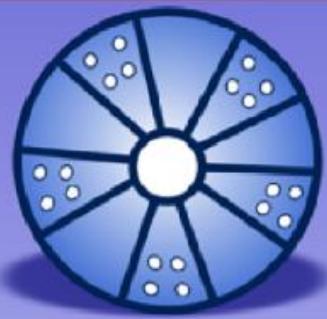




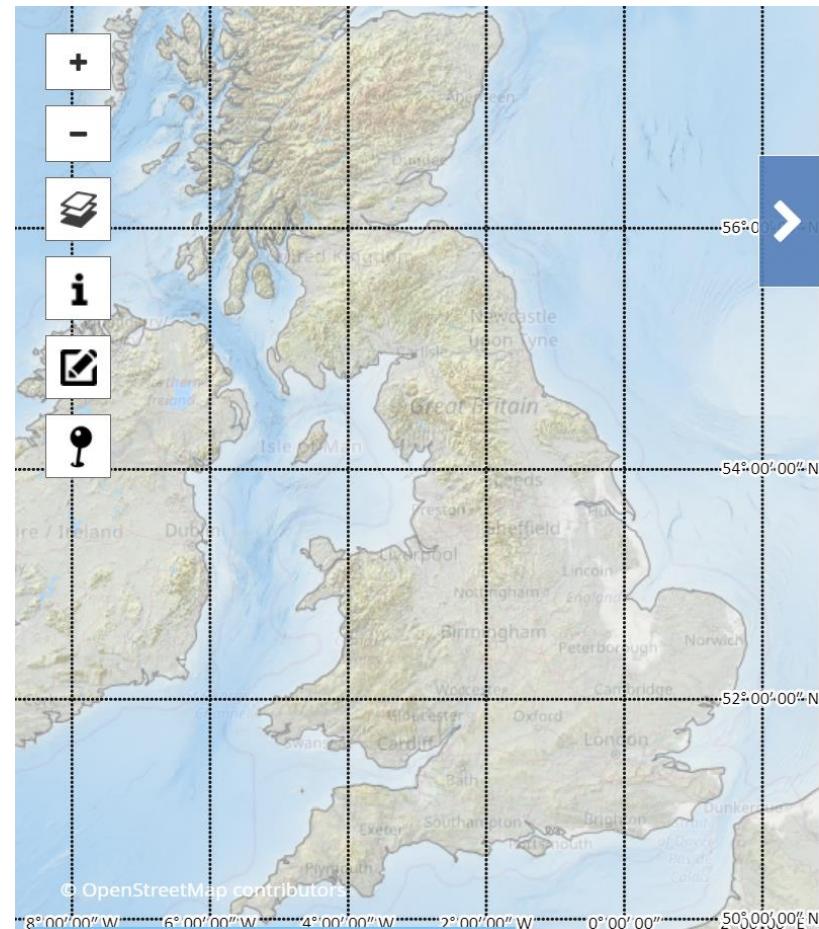
For biological data not specifically pertaining  
to the marine environment please visit



# Marine Environmental Data Information Network



You can use the MEDIN portal to search for discovery metadata records for datasets that may be of interest.



<https://portal.medin.org.uk/portal/start.php>



Search for marine data across UK organisations

[Contact](#)

[Addthis](#)

## Welcome to the MEDIN portal

The MEDIN portal contains information about 16153 marine datasets from over 400 UK organisations. Metadata are an enduring resource and contact details are publicly available for a long time. Please contact us ([enquiries@medin.org.uk](mailto:enquiries@medin.org.uk)) if you find your contact details on the MEDIN portal and do not consent to this.

[Need help?](#)

[Light version](#)

[Show advanced search](#) ▾

### SEARCH ?

Free search ?

Date

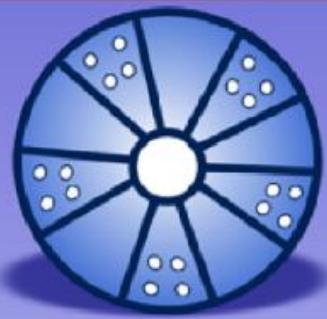
From (yyyy-mm-dd)

To (yyyy-mm-dd)

**SEARCH**

**RESET**

# MEDIN



Refine your search area on the map

Download the search result locations to use in GIS software

The screenshot shows the MEDIN search interface. On the left is a map of the North Sea and parts of Europe, with a large orange rectangular bounding box drawn over the British Isles and parts of the continental shelf. The map includes a grid overlay and various geographical features like coastlines and rivers. On the right is a detailed results table:

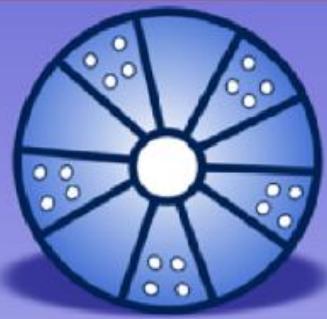
RESULTS	
< Refine search   < New search   Wide view   <a href="#">csv</a>	
Found 51   Show Page (1 of 3)   Previous   Next	
From: yyyy-mm-dd   To: yyyy-mm-dd	
TIME PERIOD	
GEOSPATIAL BOX	
North	West
East	South
<input type="checkbox"/> Search item completely within bounding box	
DATA THEME	
Marine Biodiversity	(42)
Marine Geology	(23)
Marine Chemistry	(20)
Anthropogenic Prop...	(20)
Fisheries and Aquac...	(11)
Bathymetry and Sea...	(4)
SUB THEME	
Biota abundance, bi...	(37)
Rock and sediment ...	(23)

Below the table, there are five entries listed:

- 2010, ABP Marine Environmental Research, Improving sustainability indicators for marine aggregate dredging  
ABP Marine Environmental Research Ltd  
Wed 12 Jan 2011
- 2006, AMEC/EMU/Envision/IECS/Osiris, Race Bank and Docking Shoal, Benthic Survey Outputs  
Institute of Estuarine and Coastal Studies, University of Hull  
Tue 12 Jan 2010
- 2007-2012 North East Kent coast stakeholders Thanet to Dover management plan  
Marine Biological Association of the UK (MBA)  
Tue 23 Feb 2021
- 2017-2019 Scottish Natural Heritage (SNH) Loch Creran subtidal *Didemnum vexillum* monitoring and SCM survey  
Colin Moore  
Wed 24 Feb 2021
- 1960-1970 Barnes, RSK and Coughlan, J Blackwater Estuary Bottom Fauna Dredge Survey  
Data Archive for Seabed Species and Habitats (DASSH); No organisation  
Wed 3 Mar 2021

Use the green CSV button to download the discovery metadata of your search results (not the datasets themselves)

Refine your search further with the different filters



Search for marine data across UK organisations

Contact Addthis

Results Refine search New search

Metadata: 2014 Matt Arnold et al. Firestone Bay Undaria pinnatifida records

**Abstract:**  
A collection of Non-Native Species sightings from Matt Arnold. The species listed is Undaria pinnatifida.

**Data holder:**  
Data Archive for Seabed Species and Habitats (DASSH)

**Online resource present:** ●

**Use constraints:**  
DASSH terms and conditions apply

**Geographic Extent:**

Less details ▾

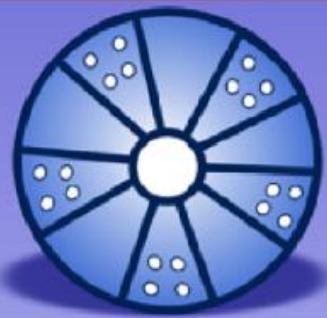
- MEDIN format (XML) - Dublin Core format (XML)

Click on the dataset name to see more information about a specific metadata record.

Check the dot colour by the dataset name to see if there is a ready-to-download dataset linked to this discovery metadata record- Green dots mean there should be a link to a dataset or report by 'Locator URL'.

Red means there is not a ready link to the dataset, but check on the records themselves to see if there is more information. Maybe you can request the dataset, for example.

# National Biodiversity Network



The NBN Atlas enables UK biodiversity data to be shared, analysed and used for research

EXPLORE YOUR AREA

SUBMIT YOUR SIGHTING

AS DATA PARTNERS

FULL STACK DEVELOPER VACANCY

Mitt|

Chinese Mitten Crab – *Eriocheir sinensis*

Mitter's Beardless-moss – *Weissia mitterii*

Astomum mitterii – species

Fossombronia mitterii – species

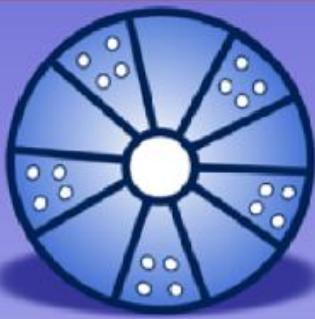
Ancylis mitterbacheriana – species

<https://species.nbnatlas.org/species/NHMSYS0001593547>

Search for species records by species name

<https://nbnatlas.org/>

# NBN



View, select and  
download  
species  
occurrence  
records

**NBNatlas**

SPECIES LOCATIONS ▾ ANALYSE GET INVOLVED ▾ DATA AND PARTNERS ▾ ABOUT ▾ HELP

Occurrence records

Customise filters

915 results for SPECIES: *Eriocheir sinensis*

Some of the displayed records may not be available for commercial use. Please check the licence conditions and non-commercial use guidance [here](#)

Records Map Charts Record images Download

Narrow your results

▼ Taxon

Scientific name  *Eriocheir sinensis* (915)

► Attribution

▼ Identification

Identification verification status

Accepted (795)  
 Accepted - considered correct (105)  
 Accepted - correct (6)  
 Unconfirmed (8)  
 Unconfirmed - plausible (1)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2020-06-16 England OSGR: TF658363  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

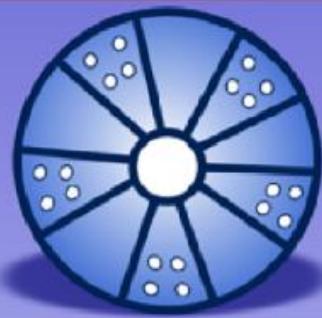
Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2020-05-08 England OSGR: ST51168694  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2019-10-02 England OSGR: SE876222  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2019-07-22 England OSGR: TQ191779  
Data Resource: Environment Agency Rare And Protected Species Records Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2018-08-10 England OSGR: TQ191779  
Data Resource: Environment Agency Rare And Protected Species Records Basis Of Record: Human Observation [View record](#)

dbossh-fullflat\_db...kml ^ dbossh-fullflat\_db...kml ^ fullflat (2).zip ^ combined\_data (2).csv ^ fullflat (2).csv ^ geoserver-....application ^ fullflat (1).zip ^ Show all X



## Narrow your results

### Taxon

#### Scientific name

[Eriocheir sinensis \(915\)](#)

### Attribution

#### License

[OGL \(582\)](#)

[CC-BY \(296\)](#)

[CC-BY-NC \(37\)](#)

[choose more...](#)

[Filter results by license](#)

#### Dataset ID

[Marine Non Native Species records from Natural Resources Wales \(NRW\) Monitoring Research and Ad-hoc Sightings \(315\)](#)

[RISC and ALERT Marine Non-Native Species \(Chinese Mitten Crab, Wakame and Carpet Sea Squirt\) Records \(277\)](#)

[England Non Native Species records 1965 to 2017 \(160\)](#)

[choose more...](#)

### Identification

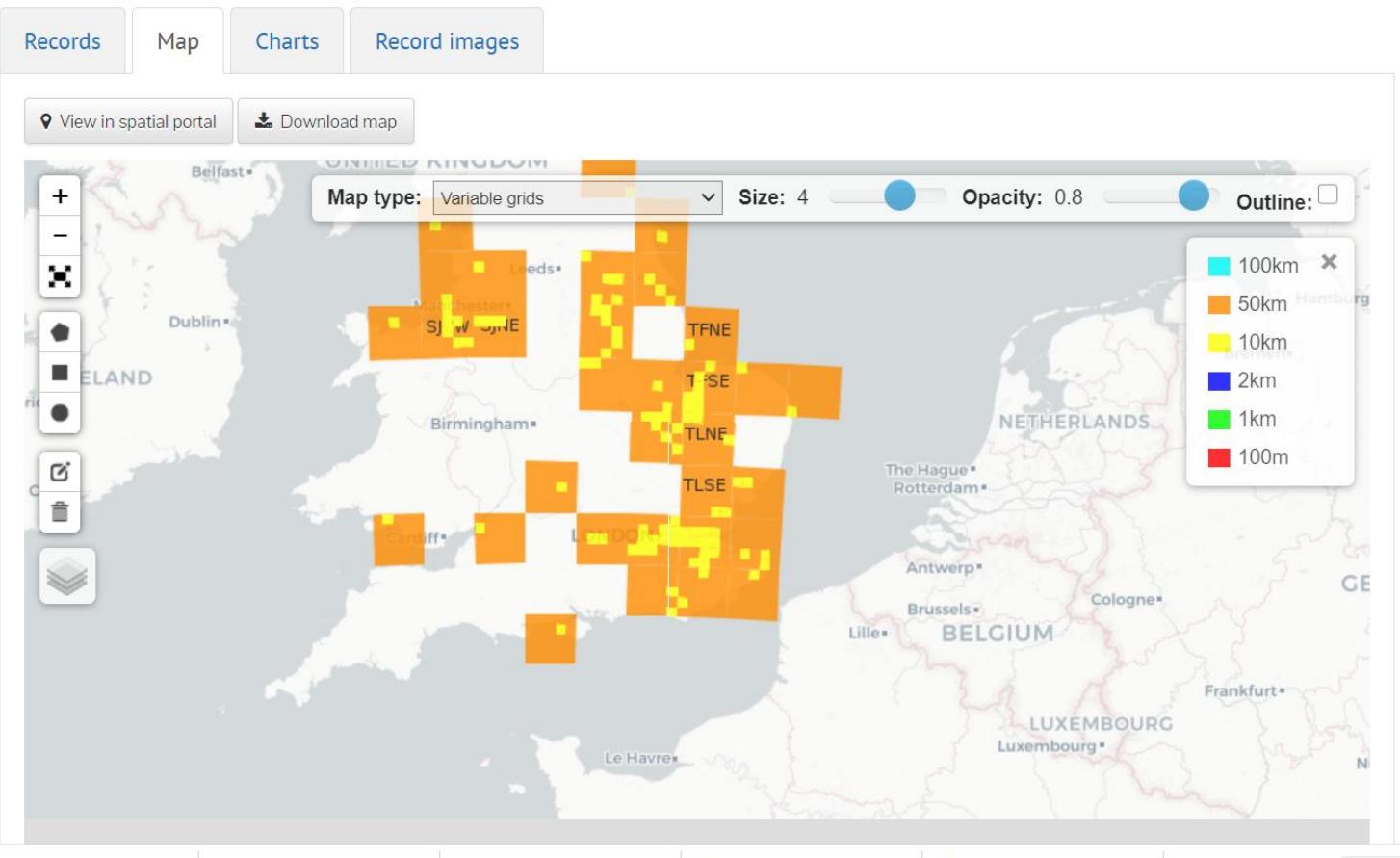
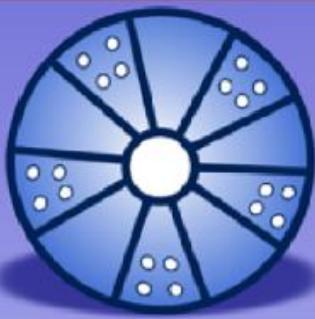
#### Identification verification status

[Accepted \(795\)](#)

[Accepted - considered correct \(105\)](#)

Refine your search terms by license type, dataset, date, etc.

# NBN



View records spatially and download an image of the search results on a map

### Download map as image file

Format: JPEG

Quality (DPI): 300

Point radius (mm): 0.7

Opacity: 0.7

Color:

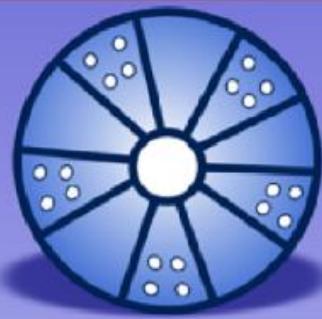
Width (mm): 150

Include scale:  Yes  No

Outline points:  Yes  No

[Close](#)    [Download map](#)

# NBN



To download your search result, you will need to sign into the NBN Atlas.

Select the download button.

Advanced search Isid:NHMSYS0001593547 Quick search

296 results for SPECIES: *Eriocheir sinensis*

Some of the displayed records may not be available for commercial use. Please check the licence conditions and non-commercial use guidance [here](#)

Selected filters: License: "CC-BY"

[Download](#) [Download all 296 records](#)

Records Map Charts Record images Alerts per page: 20 sort: Record date order: Descending

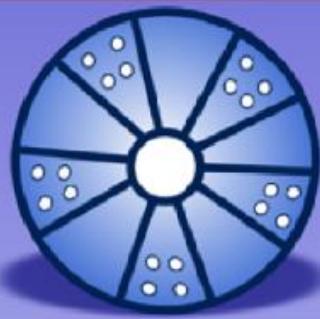
Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2020-06-16 England OSGR: TF658363  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2020-05-08 England OSGR: ST51168694  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2019-10-02 England OSGR: SE876222  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2017-12-27 England OSGR: SJ38  
Data Resource: Verified Marine Records From Indicia-Based Surveys Basis Of Record: Human Observation [View record](#)

Species: *Eriocheir sinensis* | Chinese Mitten Crab Date: 2017-05-29 England OSGR: TQ088662  
Data Resource: RISC And ALERT Marine Non-Native Species (Chinese Mitten Crab, Wakame And Carpet Sea Squirt) Records Basis Of Record: Human Observation [View record](#)



Consider the format you would like to download the data in, then follow the instructions provided.

**Step 1**

Select your download type below, and then progress to step 2.

**Occurrence records**  
A ZIP archive containing a comma separated values (CSV) file which includes a subset of location, taxon and event information.

**SELECTED**

File name: records-2021-03-08

\* Download format  
 Full Darwin Core ?  
 Simple Spreadsheet Format ?  
 Customised download (options on next screen) ?

\* Output file format  
 CSV ?  
 TSV ?

**Species checklist**  
A comma separated values (CSV) file, listing the distinct species in the occurrence records result set.

**Step 2**

Select your download reason, tick to accept licensing and then click "Next".

\* Industry/application: education

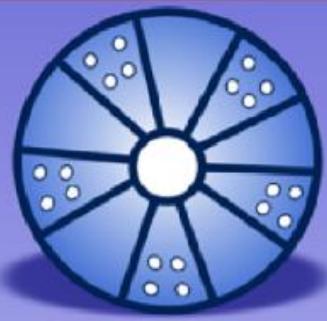
Download is for primary, secondary or tertiary educational purposes

\* Accept licensing:

This field is mandatory. I understand and accept that any CC-BY-NC licenced records included in the download must not be used for commercial purposes without the permission of the data provider and all data providers will be acknowledged as required. Breach of the licence conditions may result in you being issued with a fixed charge notice.

By downloading this content you are agreeing to use it in accordance with the NBN Atlas Terms of Use and any Data Provider Terms associated with the data download.

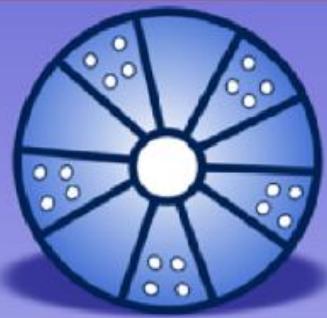
# The European Marine Observation and Data Network



Use the main EMODnet Biology website to navigate to portals specific to the type of data you are interested in.

This is a great site to use if you are also looking for non-biological datasets.

# EMODnet



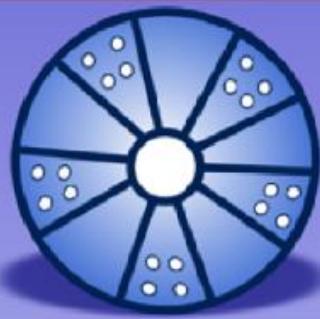
View data spatially on the EMODnet map viewer.

Select data services> map viewer.

You can select options from the catalogue of layers to view on the map and check if they are available to download.

The screenshot illustrates the EMODnet map viewer's user interface. On the left, a 'Map configuration' sidebar is open, showing a 'Background' dropdown set to 'OpenStreetMap'. Below it, the 'Active Layers (2)' tab is selected, while the 'Catalogue' tab is visible. A search bar is present above a list of layer categories: 'Administrative units', 'EMODnet Bathymetry', 'EMODnet Biology', 'Benthic invertebrate abundance and distribution', 'Fish abundance and distribution', 'Marine turtles, birds, mammals abundance and distribution', 'Phytoplankton biomass and diversity', and 'Seagrass cover and composition'. Under 'Seagrass cover and composition', two options are listed: 'Presence - Seagrass observations' (with a checked checkbox) and 'Areal extent - Modelled Posidonia oceanica Distribution' (with an unchecked checkbox). To the right of the configuration sidebar, a map of the British Isles and parts of Europe is displayed. A specific area of the map is highlighted with a light green overlay, corresponding to the 'Presence - Seagrass observations' layer. A modal window titled 'Presence - Seagrass observations' is overlaid on the map, containing the text: 'Seagrass observations available in the EurOBIS database.' and two download buttons: 'Download WFS' and 'Download'. The map also features labels for major cities like Newcastle upon Tyne, Belfast, Isle of Man, Manchester, Leeds, Sheffield, Birmingham, and London, along with labels for the United Kingdom, Ireland, and Wales.

# EMODnet



Follow the instructions to download the dataset and use 'Get webservice url' to access a Geoserver link

**Data Download**

Choose which part of the data to download

Basic Occurrence Data ⓘ  
 Full Occurrence Data ⓘ  
 Full Occurrence Data and Parameters ⓘ

**Actions**

**Download Data**   **Upload Selection**  
**View on map**   **Save Selection**  
                          **Share**  
                          **Get webservice url**  
                          **New Selection**

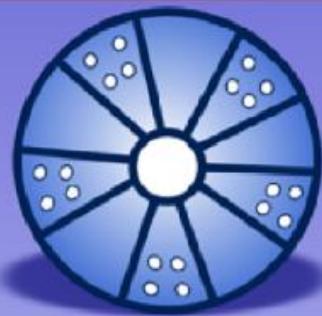
Selection Criteria

- Datasources
- Spatial
- Temporal
- Traits**  
angiosperms
- Taxa
- Data Precision
- Parameter Filters

Approx. records: 40 000

◀ Previous

# Ocean Biodiversity Information System

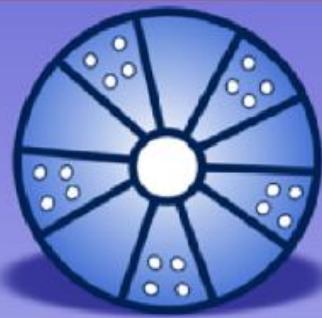


Search for  
data using  
different  
terms

The screenshot shows the OBIS homepage. At the top left is the OBIS logo and "OCEAN BIODIVERSITY INFORMATION SYSTEM". At the top right is a navigation bar with links: HOME, ABOUT ▾, DATA ▾, MANUAL, MEDIA ▾, ACTIVITIES ▾, and CONTACT. The main banner features a sea turtle in the water with the text: "OBIS is a global open-access data and information clearing-house on marine biodiversity for science, conservation and sustainable development". Below the banner is a search interface with a dropdown menu set to "Taxa", a search bar with placeholder "Search OBIS" and a magnifying glass icon, and a button with a checkmark. To the left, there's a location pin icon and the number "67,974,054 PRESENCE RECORDS". To the right, there are three columns: one with "166 TAXON FACTS", one with "3,861 DATASETS", and one with "154,144 ACCEPTED SPECIES". A tooltip for the "Taxa" dropdown lists: Taxa, Common names, Datasets, Nodes, Institutes, Areas: EEZ, Areas: ABNJ, Areas: EBSA, Areas: MWHS, Areas: LME, and Provider country.

<https://obis.org/> See also <https://www.eurobis.org/obis>

# OBIS



View the species taxon tree, its names and view statistics for the records available on OBIS.

Select to view the species distribution on the mapper tool, and view datasets containing records of the species.

**OBIS** OCEAN BIODIVERSITY INFORMATION SYSTEM

HOME ABOUT DATA MANUAL MEDIA ACTIVITIES CONTACT

**Eriocheir sinensis H. Milne Edwards, 1853**

Kingdom *Animalia* > Phylum *Arthropoda* > Subphylum *Crustacea* > Superclass *Multicrustacea* > Class *Malacostraca* > Subclass *Eumalacostraca* > Superorder *Eucarida* > Order *Decapoda* > Suborder *Pleocyemata* > Infraorder *Brachyura* > Section *Eubrachyura* > Subsection *Thoracotremata* > Superfamily *Grapsoidae* > Family *Varunidae* > Subfamily *Varuninidae* > Genus *Eriocheir* > Species *Eriocheir sinensis*

accepted name

Rank	Species
Status	accepted
Aphia ID	<a href="#">urn:lsid:marinespecies.org:taxname:107451</a>
BOLD ID	<a href="#">8470</a>
NCBI ID	<a href="#">95602</a>
Common names	チュウゴクモクズガニ, Chinese freshwater edible crab, Chinese crab, Chinese kreeft, Chinese mitten crab, Chinese wolhandkrab, Chinesische Wolhandkrabbe, crabe chinois, crabe chinols à mitaines, crabe poltu de Shangai, kinaulthåndskrabbe, kinaulthåndskrabbe, kinesiske uldhandskrabbe, kinesisk uldhandskrabba, krab wełnistoszczypcy, Shanghai hairy crab, uldhåndskrabbe, villasaksirapu, wolhandkrab, Wollhandkrabbe, wolpootkrab
Environments	marine, brackish, freshwater, terrestrial

[report issue](#) [to mapper](#)

CHILD TAXA

Forma	<i>Eriocheir sinensis</i> f. <i>acutifrons</i> <a href="#">[uncorrected]</a>
-------	------------------------------------------------------------------------------

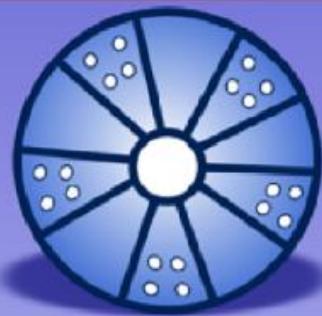
STATISTICS

Occurrence records	492
> Species level	492
Absence records	29
Species	1
Taxa	1
Datasets	21
Time range	1869 - 2016

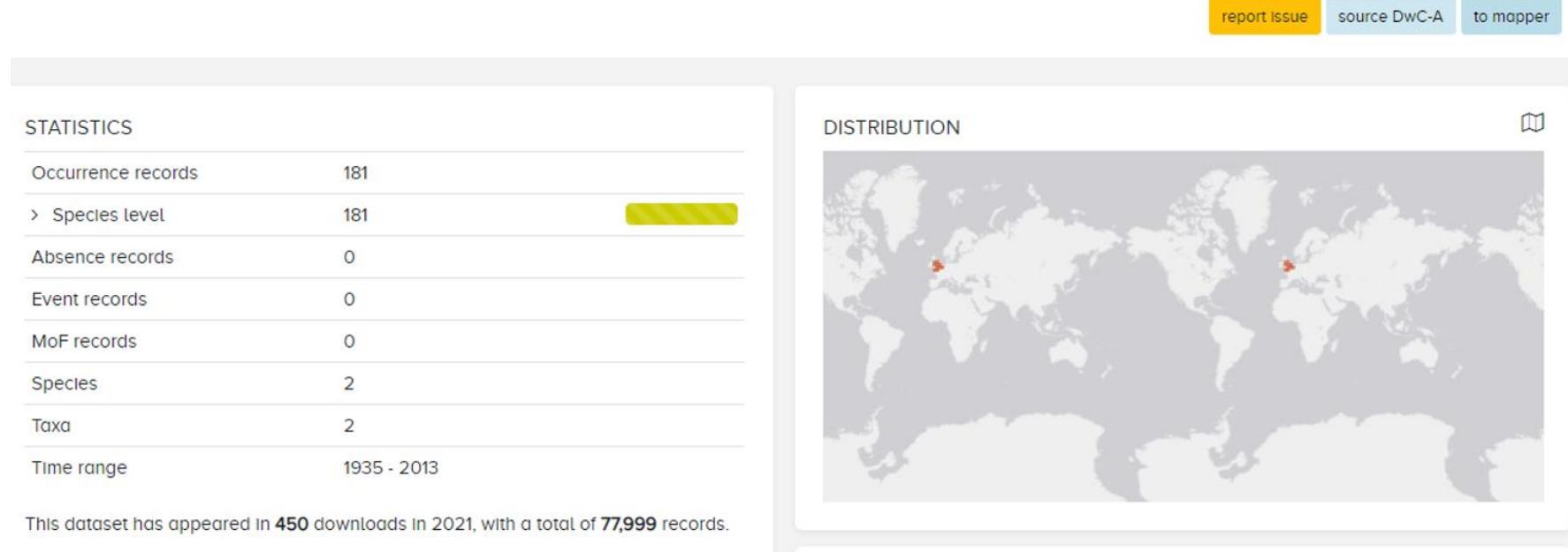
DISTRIBUTION

A world map showing the distribution of *Eriocheir sinensis*, with red dots indicating occurrence records. The map shows concentrations in the North Pacific, particularly around Japan and the coast of North America.

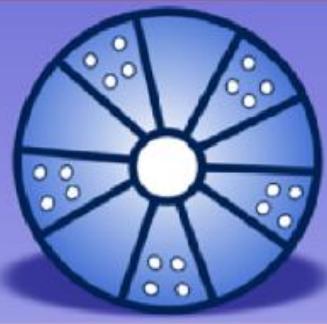
RECORDS



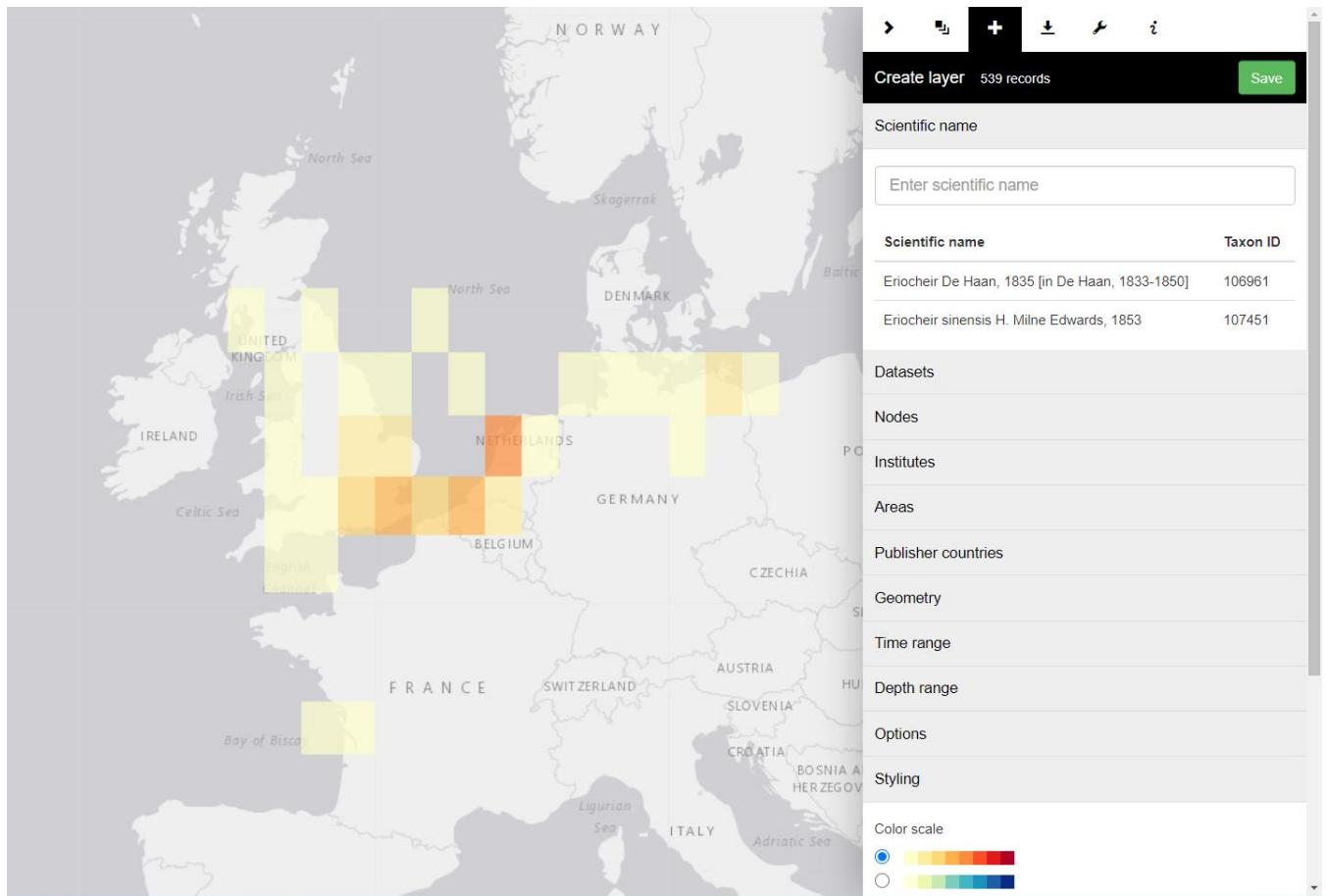
Select individual datasets to learn more, like citation and license information and to download the data in Darwin Core Archive format.



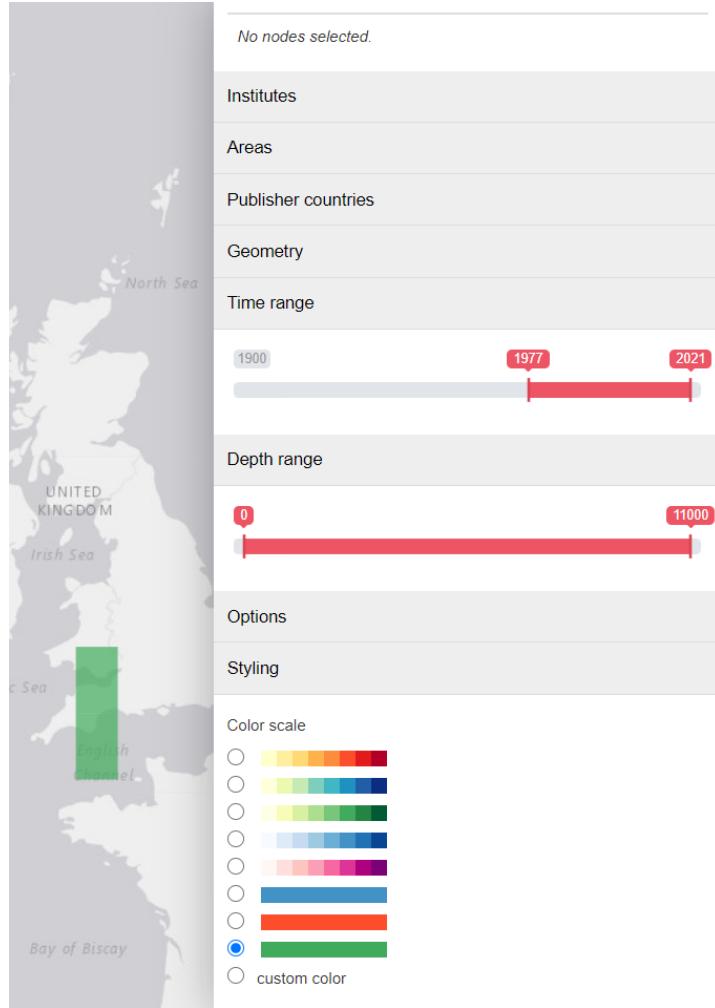
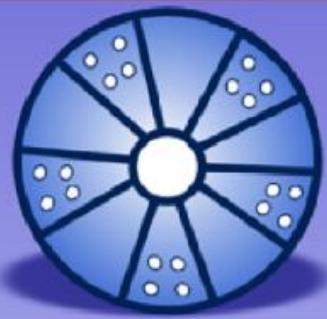
# OBIS



## Search for data on the OBIS Mapper

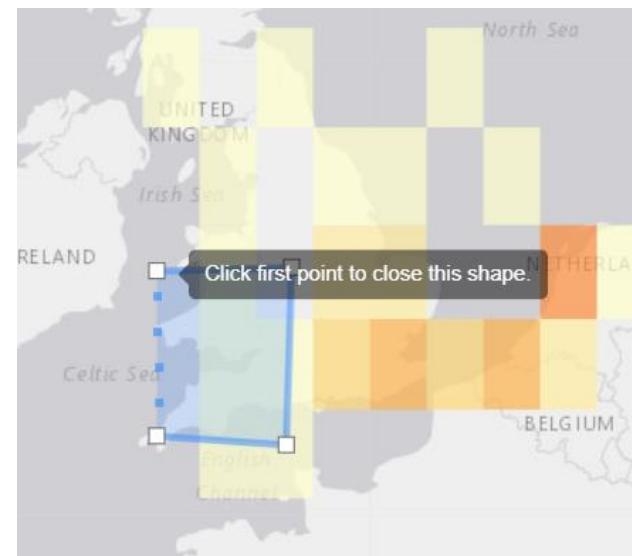
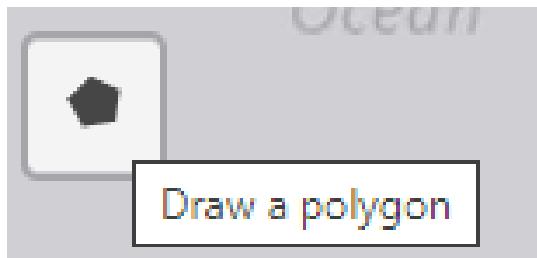


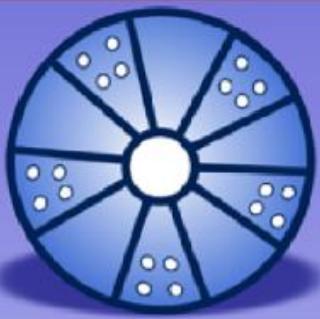
# OBIS



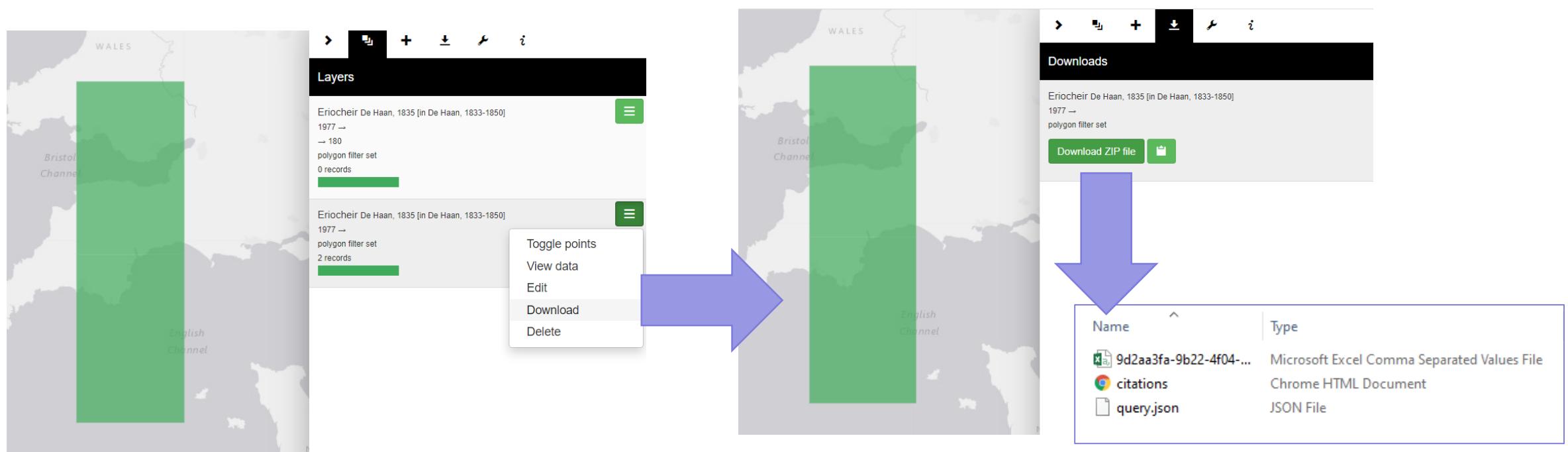
Adjust the search with different filters and change the way visual information is being displayed

Select areas with the polygon tool

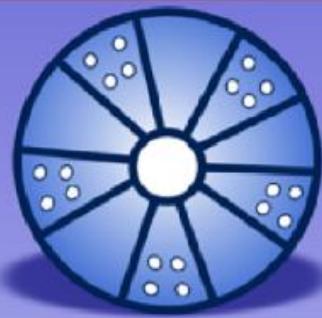




Download a ZIP file containing the data in a couple of formats and the dataset citation.



# Global Biodiversity Information Facility



Search for species occurrence data by species name. You can also search for data from specific organisations and institutions that publish datasets.

Click on the terms above the search bar to view and scroll through a themed list of available data, for example, 'species'...

Get data How-to Tools Community About

GBIF | Global Biodiversity Information Facility

## Free and open access to biodiversity data

OCCURRENCES SPECIES DATASETS PUBLISHERS RESOURCES

Search

WHAT IS GBIF? ABOUT GBIF UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Leucania leucocephala observed in Costa Rica by michaelfernandez (CC BY-NC 4.0)

Occurrence records	Datasets	Publishing institutions	Peer-reviewed papers using data
1,659,170,565	56,866	1,651	5,552

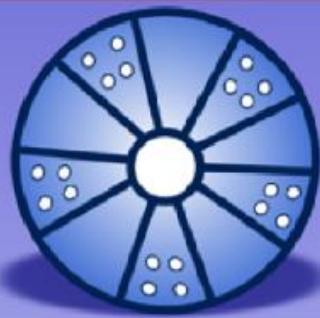
Occurrence records: 1,659,170,565 (News) - Spanish-language guide to using OpenRefine now available

Datasets: 56,866 (News) - Data integration enables global biodiversity synthesis

Publishing institutions: 1,651 (News) - Call for nominations to the 2021 GBIF Young Researchers Award

Peer-reviewed papers using data: 5,552 (News) - 2021 Ebbe Nielsen Challenge seeks open-data innovations for biodiversity

Ebbe Nielsen Challenge 2021 (News)



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Species ✖

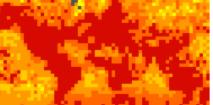
SEARCH SPECIES | 6,586,578 RESULTS

SIMPLE ADVANCED

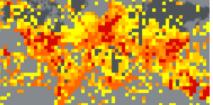
Rank Status Higher taxon Issues and flags

You are searching for species in the GBIF taxonomy.

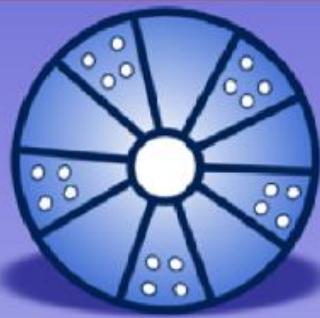
SEARCH ACROSS CHECKLISTS

**Animalia** Kingdom  
Accepted Kingdom 1,265,370,036 occurrences 

**Archaea** Kingdom  
Accepted Kingdom 287,350 occurrences 

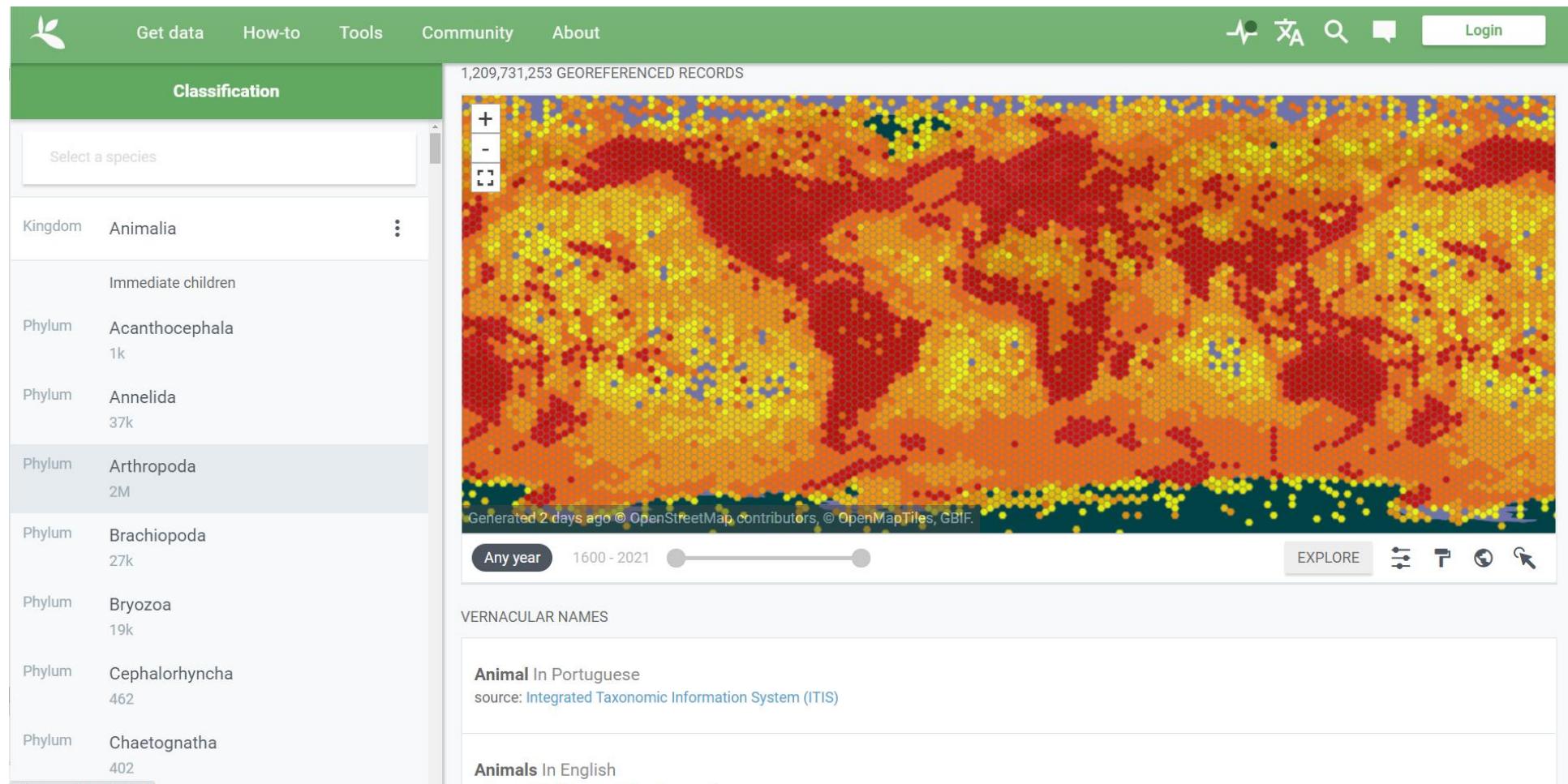
**Bacteria** Kingdom  
Accepted Kingdom 16,329,662 occurrences 

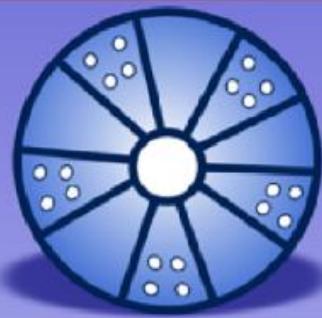
# GBIF



Select options to refine your search or search for key words like species name.

Names are available in a few different languages





## View information about global data trends

Get data   How-to   Tools   Community   About

Occurrences   Species   Datasets   Trends

ANALYTICS | GLOBAL

### Global data trends

Trends in data availability on the GBIF network, 2008 to 2021

Explore global trends ▾

#### Number of occurrence records

These charts illustrate the change in availability of the species occurrence records over time.

##### Records by kingdom

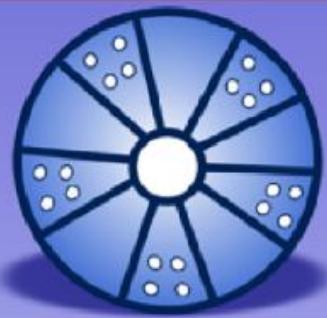
The number of available records categorized by kingdom. "Unknown" includes records with taxonomic information that cannot be linked to available taxonomic checklists.

##### Records for Animalia

The number of animal records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognised value for basis of record.

##### Records for Plantae

The number of plant records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognised value for basis of record.



Search for a specific species and browse through available resources. Choose how you would like the search results presented to you.

Eriochir sinensis 🔍

[EVERYTHING](#) [OCCURRENCES](#) [SPECIES](#) [DATASETS](#) [PUBLISHERS](#) [RESOURCES](#)

***Eriochir sinensis* H.Milne Edwards, 1853** Species

Classification : Animalia > Arthropoda > Malacostraca > Decapoda > Varunidae > Eriochir

Accepted Species 13,905 occurrences



DATASETS 24 RESULTS

**Invasive species - Chinese mitten crab (*Eriochir sinensis*) in Flanders, Belgium** Occurrence dataset

Invasive species - Chinese mitten crab (*Eriochir sinensis*) in Flanders, Belgium is a species occurrence dataset published by the Research Institute for Nature and Forest (INBO). The dataset contains ...

Published by Research Institute for Nature and Forest (INBO)

... *Eriochir sinensis* in Flanders, ...

Keywords: *Eriochir sinensis*, Occurrence, Observation.....

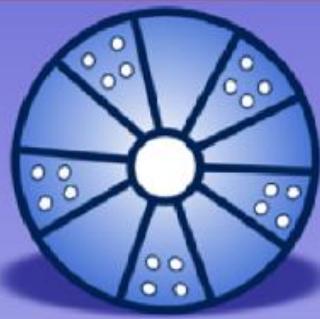
6,250 occurrences 18 citations



**Re-description of Chinese mitten crab *Eriochir sinensis* H. Milne Edwards, 1853** Checklist dataset

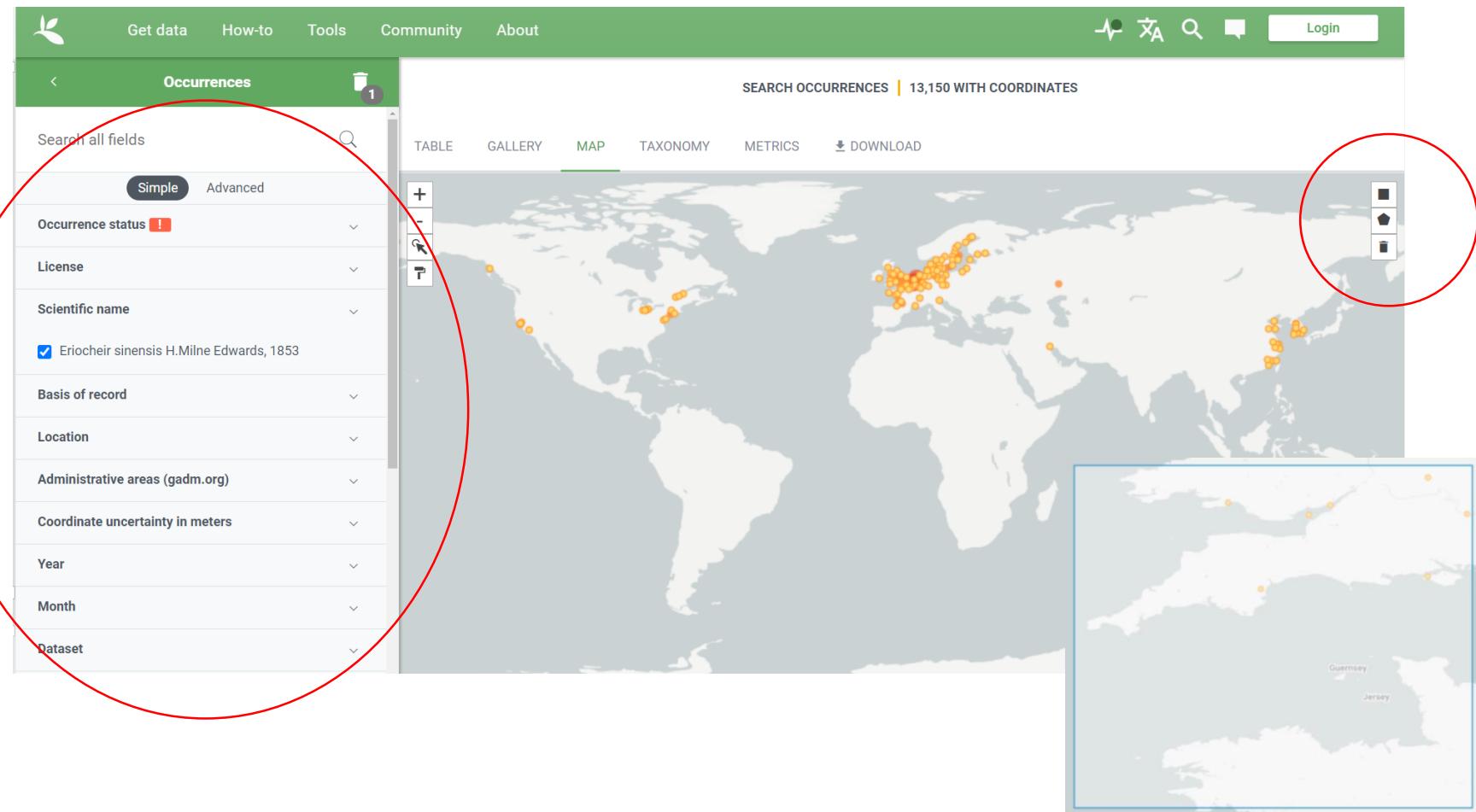
(Crustacea: Brachyura: Grapoidea: Varunidae) zoeal development using confocal laser scanning microscopy

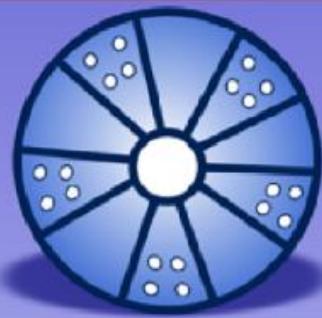
# GBIF



View your search results spatially using the map viewer.

Refine your search using the options bar on the left, or draw a bounding box on the map.





You can refine your search and switch between different ways of viewing the available datasets, for example, either on the map viewer, or in a table to check specific information about the data records.

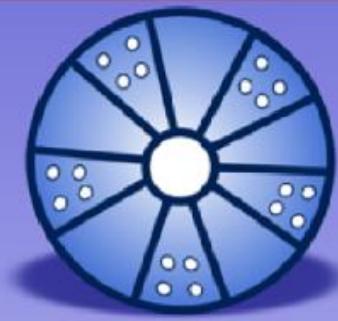
Get data   How-to   Tools   Community   About

Occurrences 2

SEARCH OCCURRENCES | 8 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year	Basis of record
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.6N, 2.7W	2020 May	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.6N, 4.0W	2016 February	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.5N, 1.0W	2012 May	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.9N, 1.5W	2012 May	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.5N, 1.0W	2011 June	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	50.7N, 1.5W	2010 April	Human observatio...
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	51.5N, 3.0W	2008 January	Material sample
<i>Eriocheir sinensis</i> H.Milne Edwards, 1853	United Kingdom of Great ...	50.5N, 3.6W	2003 January	Material sample

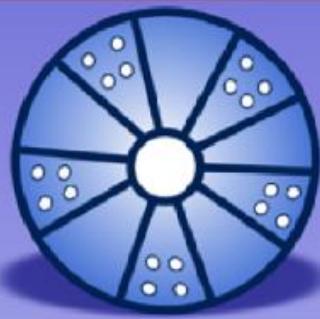


GBIF

To download data, you will need to create an account and sign in.

There are different download options for the datasets.

The license of the dataset is specified, along with other information like year range and number of records selected for download.



You will be asked to agree to GBIF's terms and conditions.

GBIF will provide a citation for your dataset and define the licence terms. You will also receive an email to this download link, so you can go back to it later.

DOWNLOAD | 9 MARCH 2021

8 occurrences included in download

DOI 10.15468/dl.wzeu7m

**DOWNLOAD**

FILTER APPLIED 9 MARCH 2021

RERUN QUERY

**Citation:** GBIF.org (09 March 2021) GBIF Occurrence Download <https://doi.org/10.15468/dl.wzeu7m>

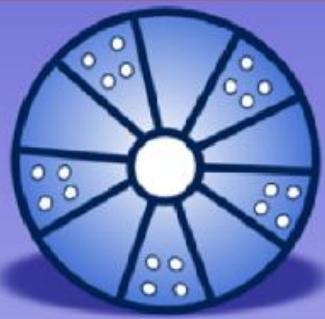
**License:** CC BY-NC 4.0

**File:** 20 KB Darwin Core Archive

**Involved datasets:** 3

Make sure to read the [data user agreement](#) and [citation guidelines](#).

The contents of the ZIP file that is then available for you to download depends on the download option you selected earlier.



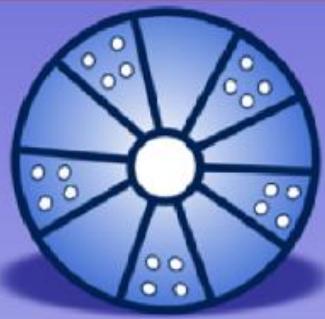
View-only sites for species occurrence data from public observations include:

**iNaturalist**

<https://www.inaturalist.org/>

**iRecord**

<https://www.brc.ac.uk/irecord/>



For more information about how to use your newly downloaded data, please see the slides for ‘How do I use publicly available biodiversity data?’

This will provide a basic definition of file formats, including Darwin Core, a quick introduction to QGIS and how to connect to a Geoserver.