**Data extraction Orkney Islands**

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**Note:** As always, this dataset has been carefully built and checked accordingly. However, it is the user’s responsibility to perform his own verifications.

**Quick description of the dataset**

**1 – The dataset contains 8 files:**

1. “CPR\_Data\_OrkneyIslands\_12032025.docx”: This document
2. “CPR\_OrkneyIslands\_ControlMap\_12032025.png”:

Map representing the selected samples from January 1958 to December 2021 (163 samples)

1. “CPR\_OrkneyIslands\_Data\_LargeZooplankton\_12032025.csv”: Abundance data for all selected large zooplankton (>= 2mm, 19 taxa, see CPR\_OrkneyIslands\_List\_LargeZooplankton\_12032025.csv) and all samples available.

Rows: All samples for the selected area (163 samples).

Column 1: Unique sample id. For instance: “240B--27” corresponds to the 27th sample for the 240th transect on the B route.

Columns from 2 to 8: Spatio-temporal coordinates for each sample.

Columns from 9 to 27: Abundance data for all selected large zooplankton (19 taxa).

Note 1: We may notice very small values (10^-10) or any other number with a very small fraction. Sometimes, our analysts can identify the presence of a specific taxa but are unable to quantify it. In that case, they report the taxa as “present”. This is hard-coded in our database as a very small value (10^-10) for statistical reasons.

Note 2: In a given sample, the abundance value of a specific taxon, is set to NaN (Not A Number) when the corresponding Data of Routine Identification (DRI) is posterior to the date of sample collection. DRI is defined below, see Column 5 in “CPR\_OrkneyIslands\_List\_LargeZooplankton\_12032025.csv”

1. “CPR\_OrkneyIslands\_List\_LargeZooplankton\_12032025.csv”: List of large zooplankton

Rows: All selected taxa (19 taxa).

Column 1 “accepted\_id”: Unique identifier used by the CPR survey

Column 2 "Aphia\_id”: Identifier used by WoRMS

Column 3 "name-CPR”: Unique name used by the CPR survey.

Column 4 "Name\_worms”: Name used by WoRMS corresponding to the “aphia\_id”.

Column 5 "DRI: Date of Routine Identification. Before that date, un taxon was not on our routine taxa list. For a given taxon, abundances associated with samples taken before the DRI are set to a NaN (Not A Number).

Column 6 to 31: Taxonomic information for each taxa.

1. “CPR\_OrkneyIslands\_Data\_SmallZooplankton\_12032025.csv”: Abundance data for all selected small zooplankton (see CPR\_OrkneyIslands\_List\_SmallZooplankton\_12032025.csv) and all selected samples in the selected area. (<2mm, 33 taxa, 163 samples).

Note: Same architecture as “CPR\_OrkneyIslands\_Data\_LargeZooplankton\_12032025.csv”

1. “CPR\_OrkneyIslands\_List\_SmallZooplankton\_12032025.csv”: List of small zooplankton (33 taxa).

Note: Same architecture as “CPR\_OrkneyIslands\_List\_LargeZooplankton\_12032025.csv”.

1. “CPR\_OrkneyIslands\_Data\_Phytoplankton\_12032025.csv”: Abundance data for all selected phytoplankton (see CPR\_OrkneyIslands\_List\_Phytoplankton\_12032025.csv) and all selected samples in the selected area. (41 taxa, 163 samples).

Note: Same architecture as “CPR\_OrkneyIslands\_Data\_LargeZooplankton\_12032025.csv”

1. “CPR\_OrkneyIslands\_List\_Phytoplankton\_12032025.csv”: List phytoplankton (41 taxa).

Note: Same architecture as “CPR\_OrkneyIslands\_List\_Phytoplankton\_12032025.csv”.