**Data extraction Irish Sea C3**

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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 9 files:**

1. “CPR\_Data\_IrishSeaC3\_29012026.docx”: This document
2. “CPR\_IrishSeaC3\_ControlMap\_29012026.png”:

Map representing the selected samples from January 1958 to December 2022 (8088 samples)

1. “CPR\_IrishSeaC3\_Data\_LargeZooplankton\_29012026.csv”: Abundance data for all selected large zooplankton (48 taxa, see CPR\_IrishSeaC3\_List\_LargeZooplankton\_29012026.csv) and all samples available.

Rows: All samples for the selected area (8088 samples).

Column 1: “SampleId”: 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 (Time in UTC)

Columns from 9 to 56: Abundance data for all selected large zooplankton (48 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\_IrishSeaC3\_List\_LargeZooplankton\_29012026.csv”

1. “CPR\_IrishSeaC3\_List\_LargeZooplankton\_29012026.csv”: List of large zooplankton

Rows: All selected taxa (48 taxa).

Column 1 “Accepted\_ID”: Unique identifier used by the CPR survey

Column 2 "Taxon\_Name”: Unique name used by the CPR survey.

Column 3 " WoRMS\_Name”: Name used by WoRMS corresponding to the “Aphia\_ID”.

Column 4 " Aphia\_ID”: Identifier used by WoRMS

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 12: Taxonomic information (simplified) for each taxa.

1. “CPR\_IrishSeaC3\_Data\_SmallZooplankton\_29012026.csv”: Abundance data for all selected small zooplankton (see CPR\_IrishSeaC3\_List\_SmallZooplankton\_29012026.csv) and all selected samples in the selected area. (52 taxa, 8088 samples).

Note: Same architecture as “CPR\_IrishSeaC3\_Data\_LargeZooplankton\_29012026.csv”

1. “CPR\_IrishSeaC3\_List\_SmallZooplankton\_29012026.csv”: List of small zooplankton (52 taxa).

Note: Same architecture as “CPR\_IrishSeaC3\_List\_LargeZooplankton\_29012026.csv”.

1. “CPR\_IrishSeaC3\_Data\_Phytoplankton\_29012026.csv”: Abundance data for all selected phytoplankton (see CPR\_IrishSeaC3\_List\_Phytoplankton\_29012026.csv) and all selected samples in the selected area. (98 taxa, 8088 samples).

Note: Same architecture as “CPR\_IrishSeaC3\_Data\_LargeZooplankton\_29012026.csv”

1. “CPR\_IrishSeaC3\_List\_Phytoplankton\_29012026.csv”: List phytoplankton (98 taxa).

Note: Same architecture as “CPR\_IrishSeaC3\_List\_Phytoplankton\_29012026.csv”.

1. “CPR\_IrishSeaC3\_Data\_PCI\_29012026.csv”: Abundance data for Phytoplankton Colour Index (PCI).

Same architecture as “CPR\_IrishSeaC3\_Data\_LargeZooplankton\_29012026.csv”

Note: Phytoplankton Colour Index (PCI) corresponds to the greenness of the silk and is associated to a semi-logarithmic scale as follow:

no colour = 0

very pale green = 1

pale green = 2

green = 6.5