**Data extraction Atlanteco**

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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\_Atlanteco\_26022025.docx”: This document
2. “CPR\_Atlanteco\_ControlMap\_26022025.png”:

Map representing the selected samples from January 1993 to December 2021 (123569 samples)

1. “CPR\_Atlanteco\_Data\_LargeZooplankton\_26022025.csv”: Abundance data for all selected large zooplankton (114 taxa, see CPR\_Atlanteco\_List\_LargeZooplankton\_26022025.csv) and all selected samples in the selected area (10°N to 90°N, -100°E to 20°E).

Rows: All samples for the selected area (123569 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 6: Spatio-temporal coordinates for each sample. The column “midpoint” corresponds to the spatio coordinates of the middle of each CRP sample (as DD/MM/YYYY hh:mm).

Columns from 7 to 120: Abundance data for all selected large zooplankton (114 taxa).

Note 1: You can notice that the number of taxa in “large zooplankton” is different from the previous extract (114 instead of 140). Since the last data extract (in November 2023), the data extracting system was updated and now automatically removed taxa never found in the selected area. This is also changing the number of selected taxa in “small zooplankton” (60 instead of 63), as well as in “phytoplankton” (147 instead of 156).

Note 2: 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 3: 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\_Atlanteco\_List\_LargeZooplankton\_26022025.csv”

1. “CPR\_Atlanteco\_List\_LargeZooplankton\_26022025.csv”: List of large zooplankton

Rows: All selected taxa (114 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\_Atlanteco\_Data\_SmallZooplankton\_26022025.csv”: Abundance data for all selected small zooplankton (see CPR\_Atlanteco\_List\_SmallZooplankton\_26022025.csv) and all selected samples in the selected area. (60 taxa, 123569 samples).

Note: Same architecture as “CPR\_Atlanteco\_Data\_LargeZooplankton\_26022025.csv”

1. “CPR\_Atlanteco\_List\_SmallZooplankton\_26022025.csv”: List of small zooplankton (60 taxa).

Note: Same architecture as “CPR\_Atlanteco\_List\_LargeZooplankton\_26022025.csv”.

1. “CPR\_Atlanteco\_Data\_Phytoplankton\_26022025.csv”: Abundance data for all selected phytoplankton (see CPR\_Atlanteco\_List\_Phytoplankton\_26022025.csv) and all selected samples in the selected area. (147 taxa, 123569 samples).

Note: Same architecture as “CPR\_Atlanteco\_Data\_LargeZooplankton\_26022025.csv”

1. “CPR\_Atlanteco\_List\_Phytoplankton\_26022025.csv”: List phytoplankton (147 taxa).

Note: Same architecture as “CPR\_Atlanteco\_List\_Phytoplankton\_26022025.csv”.

1. “CPR\_Atlanteco\_Data\_PCI\_26022025”. Values for the Phytoplankton Colour Index (PCI)

Note: Same architecture as “CPR\_Atlanteco\_Data\_LargeZooplankton\_26022025.csv”