**Data extraction for DINCAE**

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**Webpage: https://doi.mba.ac.uk/data/3548/**

**Note 1:** As always, this dataset has been carefully built and checked accordingly. However, it is the user’s responsibility to perform his own verifications.

**Note 2:** This dataset is associated with a Digital Object Identifier or DOI. Please, use the DOI for all citations. Please do not share this dataset outside the current project.

**Quick description of the dataset**

**1 – The dataset contains 3 files:**

1. “CPR\_Data\_DINCAE\_29092025.docx”: This document
2. “CPR\_DINCAE\_ControlMap\_23092025.png”:

Map representing the selected samples from January 1958 to December 2022

* 258155 samples in the area from 51°N to 80°N, and -100°E to 30°E.

1. “CPR\_DINCAE\_Data\_290925.csv”: Abundance data for taxa/groups (7) in all selected samples.

Rows: All samples for the selected area (258155 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.
* Columns 7. Solar elevation. corresponds to the elevation of the sun (in degrees) when the sample was taken. Often, we consider that values superior to 10 correspond to the daylight period (< -10 for night).
* Columns 8. Abundance for “Calanus finmarchicus”. CPR Id = 40.
* Columns 9. Abundance for “Calanus helgolandicus”. CPR Id = 41.
* Columns 10. Abundance for “Phytoplankton Colour Index”. Corresponds to the value of a standing stock index for phytoplankton. Values are as follow: ‘0’ = no colour, ‘1’ = very pale green’, ‘2’ = pale green and ‘6.5’ = green.
* Columns 11. Mean abundance for “mean total diatoms”. Corresponds to the mean values of the 85 diatoms taxa found in the selected area.
* Columns 12. Abundance for “mean total dinoflagellates”. Corresponds to the mean values of the 86 dinoflagellates taxa found in the selected area.
* Columns 13. Abundance for “mean total small copepods”. Corresponds to the mean values of the 46 small copepods taxa (<= 2mm) found in the selected area.
* Columns 14. Abundance for “mean total large copepods”. Corresponds to the mean values of the 110 large copepods taxa (> 2mm) found in the selected area.

Abundance per samples is expressed in number of individuals per 3m3.

Note 1: 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.

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.