

TITLE: BEST\_ICE\_POC

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**FUNDING SOURCE AND GRANT NO:**

National Science Foundation Award Number 0732767.

**Description:**

This file contains data on  $\delta^{15}\text{N}$  (‰),  $\delta^{13}\text{C}$  (‰), particulate organic nitrogen (PON) concentration (mg/l), particulate organic carbon (POC) concentration (mg/l) for sea ice core segments collected during the BEST 2008 (HLY0801, HLY0802), 2009 (HLY0901, HLY0902) and 2010 (PESA10-01) field studies. For details on the expeditions as well as station locations check the cruise reports available at <http://www.eol.ucar.edu/projects/best/>.

The data are in a standard excel format spreadsheet. Note, that nd represent missing data.

**Description of columns**

**Cruise:** Identifies cruise during which samples were taken

**Station:** Contains the official name of the station as given in the station catalogue.

**Date:** Date of sampling. Format: MM/DD/YY

**DOY:** Day of the year

**Segment:** Ice cores were taken using a 9 cm diameter ice corer and sectioned on the ice floes in sections of variable thickness. The numbers provided in this column give the section thickness as the distance from the bottom of the sea ice. Example: Section 0-1 is the lowermost 1 cm section at the interface between ice and water. Section 2-5 cm: section is 2 to 5 cm distance from the ice water interface.

Each expedition slightly differed in the number of replicates.

- In 2008, three replicate ice cores (labeled b, and c for core 2 and 3) were taken close to each other within a 2 m radius.
- In 2009, three replicate cores were taken at one main site (M1, M2, M3) plus one additional core at each of two satellite sites (S1, S2).
- In 2010 three replicate ice cores (labeled 1/, 2/, 3/) were taken close to each other within a 2m radius.

**$^{15}\text{N}$  (‰):** Nitrogen stable isotopic ratio in standard notation.

**$^{13}\text{C}$  (‰):** Carbon stable isotopic ratio in standard notation.

**PON (mg/l):** Concentration of particulate organic nitrogen (PON) in a certain ice core segment.

**POC (mg/l):** Concentration of particulate organic carbon (PON) in a certain ice core segment.

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