

Fields for sea ice core database

Basic Core Data Form : This is the form where basic core data can be entered. It would probably be the most useful for entering data while on a voyage. It contains the same data as the in the core_basic and values_measured tables. These tables are more useful for entering lists of core parameters after the voyage. A simple way to a lot of data is directly from an excel spreadsheet. Data which is entered in either the table or the form will subsequently appear in both locations.

Similarly, there are tables and forms for entering data on specific **voyages or bases, contact_people** or **organizations**.

A description of each of the fields follows.

Basic Core Data Table

ID This is a number assigned by the program. It is unique for each core.

Core_name *required*. User input name. It is text up to 50 characters long

Date *required* enter in dd-mmm-yy where dd is a 2 digit number for the day, mmm is the three letter abbreviation for the month and yy is two digit year.

Time of Day *optional* in hours:minutes

Latitude *required* Enter in decimal degrees, south is negative. Must be between -45 and -85 (sea ice in southern hemisphere only)

Longitude *required* decimal degrees, between 0 and 360

Organization Name *required* name of group that collected the core. There is a pull down list of options, but you can still enter anything you like.

Voyage or Base *required* text up to 50 characters. Name of voyage should be LLmmMMyy. Where LL is two letter ship abbreviation, mm is month ship entered the ice, MM is month ship left ice, and yy is the year. If the voyage lasted over the change of year (i.e. Jan 1), use the earlier year. For the Aurora Australis voyage that entered the ice in December, 1992 and left the ice in February, 1993 the voyage would be AA120192. This naming scheme agrees with the ice observation scheme. For a station, enter the station name. More details of the voyage can be entered in the 'Voyage or Base' form.

Ice type *optional* pack or fast ice.

Ice thickness *optional* number, enter ice thickness in m. Must be > 0.

Snow thickness *optional* enter snow thickness above the core in m

Freeboard *optional* the distance the ice surface above sea level, in m.

Core Diameter *optional* Diameter of core in cm

Meteorological Parameters *optional* measured at the time the core was collected

Air temperature *optional* in degrees C

Wind speed *optional* in m/s

Wind Direction *optional* in degrees T (must be between 0 and 360)

Humidity *optional* in percent (between 0 and 100)

Pressure *optional* in hPa, must be between 600 and 1200.

Contact Last Name *optional* text up to 50 characters. Details of this person can be entered in a separate form.

Comments *optional* memo. Any relevant information pertaining to the core site, the sampling technique or any other activities that took place when the core was sampled.

Values measured table

Core_id automatically entered by the program, same number as shown above.

Top Depth *required* in cm. Note that core depths are positive, with 0 at the top of the ice.

Bottom Depth *optional* in cm.

Crystal Structure *optional* must be granular, congelation, platelet, mixed, snow ice, or other.

Salinity *optional* in psu, must be ≥ 0

Temperature *optional* refers to the temperature at the depth listed as the top depth. Must be between +10 and -50.

Del O18 *optional*

Chlorophyll *optional*

Comments *optional* any notes which pertain specifically to that section of core. E.g. any more detailed structural comments (brine channels, bubbles, etc.), or

Contact people table

Last Name *required*

First Name *optional*

Title *optional*

Organization *optional*

Phone *optional*

Extension *optional*

Fax *optional*

Email *optional*

Notes *optional*

Voyage or base Table

Voyage or base *required*, Name of voyage should be LLmmMMyy. Where LL is two letter ship abbreviation, mm is month ship entered the ice, MM is month ship left ice, and yy is the year. If the voyage lasted over the change of year (i.e. Jan 1), use the earlier year. For the Aurora Australis voyage that entered the ice in December, 1992 and left the ice in February, 1993 the voyage would be AA120192. This naming scheme agrees with the ice observation scheme. For cores collected from stations enter the name of the station.

Location *optional*, general area of work (e.g. Weddell Sea, East Antarctica)

Start date *optional*

End date *optional*

Organization *optional*

Notes *optional*

Organizations

Organization *required*

Address *optional*

City *optional*

State *optional*

Post Code *optional*

Country *optional*

Notes *optional*