Generic temperature profile for cryo stations: *Ice mass Balance buoy*

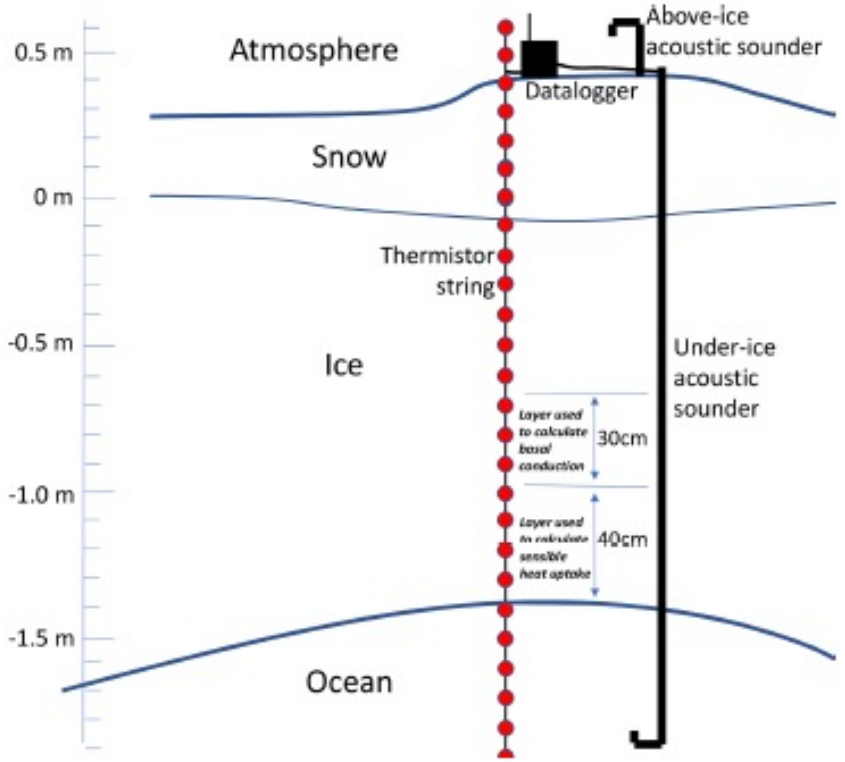

Figure 2. Diagram of the main components of an IMB, with layers used in this study for calculation of fluxes at the base of the ice indicated. Adapted from Fig. 1a of Planck et al. (2019).

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Generic temperature profile for cryo stations: *open questions (2024-07-01)*

#	Table references	Element name	Comments
1	0 07 034	Vertical distance of sensor	Vertical distance of sensor, that is the "Vertical distance of the sensor from a (specified) reference level, such as local ground, deck of a marine platform at the point where the sensor is located, or sea surface” Positive values are above, negative values below reference level; Reference value could be -65 000, that is distance ranges from -650.00 to 660.70 m (see 0 07 032, Height of sensor above local ground (or deck of marine platform)) *Description from WIGOS Metadata Standard (WMO-No. 1192) - Chapter 7. Detailed specification of WIGOS metadata elements - Category 5: Instruments and methods of observation - 5-05*

Generic temperature profile for cryo stations: *open questions (2024-07-01)*

#	Table references	Element name	Comments
2	3 03 YYY 0 13 013	Change reference values (for total snow depth)	Total snow depth (0 13 013) has a reference value of -2 (== 2 mm) that '*means*' something *if type of station is 'manual'*. A snow depth value of –0.01 m before scaling (–1 after scaling or in CREX) shall indicate a little (less than 0.005 m) snow. A value of –0.02 m (-2 after scaling or in CREX) shall indicate "snow cover not continuous". How can this be avoided?

Generic temperature profile for cryo stations: *open questions (2024-07-01)*

#	Table references	Element name	Comments
3	0 13 115	Ice thickness	Note to be adapted! Ice thickness shall be preceded by Surface type (0 08 029) set to 2, 11, 12, 13/18 or 14 to specify whether it is continental [ice sheet], river, lake, sea, or glacier ice, respectively. See WMO-No. 306, Vol. I.2, I.2 – BUFR/CREX Table B/13 — 5, note 9
4	1 10 000	Delayed replication of 10 descriptors	Is a Time period or displacement (0 04 025) set to zero needed here? See issue #157.