

Dataset Information

Sea Ice Beacons in this Series

Table 1. Ice Beacon datasets with associated start and end dates.

Dataset Name	Start Date	End Date	Activity Collection Start Time	Research Area
300034012022250	2007-12-14	2008-08-07	20:05:36	Beaufort Sea
300034012023330	2007-11-24	2008-07-26	22:25:01	Beaufort Sea
300034012024220	2007-12-07	2008-04-07	20:24:05	Beaufort Sea
300034012025330	2008-01-05	2008-03-18	18:27:07	Beaufort Sea
300034012520600	2008-01-15	2008-07-22	20:54:00	Beaufort Sea
300034012520610	2008-02-24	2008-06-25	20:35:05	Beaufort Sea
300034012525590	2008-04-17	2008-06-04	19:07:23	Beaufort Sea
300034012526590	2008-06-03	2008-06-07	21:51:06	Beaufort Sea
300034012529590	2008-06-01	2008-06-05	17:59:35	Beaufort Sea
300034012612770	2008-05-25	2008-06-25	22:30:35	Beaufort Sea
300034012615000	2008-04-05	2008-06-05	17:36:05	Beaufort Sea
300034012618770	2008-05-03	2008-05-26	03:05:06	Beaufort Sea
300034012811310	2008-05-25	2008-07-25	18:27:35	Beaufort Sea
300034012813320	2007-11-24	2008-06-25	22:47:24	Beaufort Sea
300034012813330	2008-02-18	2008-06-25	21:34:06	Beaufort Sea
300034012814310	2008-02-28	2008-06-15	22:12:06	Beaufort Sea
300034012815320	2008-07-05	2008-08-10	16:09:08	Beaufort Sea
300034012816330	2008-07-06	2008-07-26	20:48:53	Beaufort Sea
300034012817300	2007-11-22	2007-11-24	23:19:00	Beaufort Sea
300034012817320	2008-03-18	2008-06-09	17:48:06	Beaufort Sea
300034012818300	2007-11-19	2008-06-25	21:16:05	Beaufort Sea
300034012819310	2008-04-14	2008-06-15	20:17:48	Beaufort Sea
300034012912920	2007-11-24	2008-04-13	21:14:53	Beaufort Sea
300034012915930	2008-01-15	2008-01-21	21:21:53	Beaufort Sea
300034012917920	2008-01-15	2008-08-12	20:20:35	Beaufort Sea
300034012918920	2007-12-11	2008-02-03	02:29:01	Beaufort Sea

Site Information**Table 2. Beacon ID's with associated site locations**

Beacon ID	Site Latitude	Site Longitude	Site Type	Site Location Country
12022250	71.4643	-125.7825	Ice floe	Canada
12023330	73.9197	-127.3983	Ice floe	Canada
12024220	71.2511	-124.9362	Ice floe	Canada
12025330	71.5051	-125.3969	Ice floe	Canada
12520600	71.432	-125.0371	Ice floe	Canada
12520610	70.9886	-123.9218	Ice floe	Canada
12525590	70.711	-122.1157	Ice floe	Canada
12526590	69.8581	-123.7534	Ice floe	Canada
12529590	70.6436	-123.161	Ice floe	Canada
12612770	72.5339	-129.6257	Ice floe	Canada
12615000	71.0772	-123.7236	Ice floe	Canada
12618770	70.8604	-125.0409	Ice floe	Canada
12811310	72.5665	-129.5816	Ice floe	Canada
12813320	73.8287	-127.4475	Ice floe	Canada
12813330	71.3234	-124.5208	Ice floe	Canada
12814310	71.011	-123.4219	Ice floe	Canada
12815320	74.9004	-120.6786	Ice floe	Canada
12816330	75.1036	-120.3153	Ice floe	Canada
12817300	71.7325	-126.6765	Ice floe	Canada
12817320	71.4103	-120.5725	Ice floe	Canada
12818300	71.2622	-121.7346	Ice floe	Canada
12819310	71.205	-122.0306	Ice floe	Canada
12912920	73.8351	-127.4371	Ice floe	Canada
12915930	71.3813	-124.3074	Ice floe	Canada
12917920	71.4258	-125.4083	Ice floe	Canada
12918920	71.2552	-125.3076	Ice floe	Canada

Instrument/Result Data Parameters

Header	Description	Units	Result Value Type	Statistic Applied
Date_(yyyymmdd)	YYYY-MM-DD		Actual	None
Time_(hh24miss)	Time in UTC	HH:MM:SS	Actual	None
latitude	Latitude	Decimal Degrees	Actual	None
longitude	Longitude	Decimal Degrees	Actual	None
altitude_m	Altitude. GPS altitude from these beacons is unreliable, ad beacon altitude should be assumed to be within 2m of mean sea level	Meters	Actual	None
speed_m_s	Speed	Meters per second	Calculated	Python Script
direction_degrees	Direction	Degrees	Actual	None
fix	GPS fix acquired (1) or not (0)		Actual	None
sat	Number of satellites used to derive location		Actual	None

CanWIN Data Cleaning Notes

- 1.** Date formats changed from mm/dd/yyyy to ISO Format yyyy/mm/dd
- 2.** Removed original file column headers:
 - Elevation, Heading, Speed, HDOP, VDOP, VerticalVelocity, Pressure, TempExternal, TempInternal, BeaconAlarmState, BatteryVoltage, ModemVoltage, WindSpeed, WindDirection
- 3.** Speed was removed and calculated after data was downloaded
 - Original speed data was determined as unreliable