

## Dataset Description

<b>Station Information</b>							
<b>ID*</b>	<b>Type*</b>	<b>Location</b>	<b>Latitude*</b>	<b>Longitude*</b>	<b>Coordinate System Units</b>	<b>Coordinate Reference System</b>	<b>Coordinate Collection Method</b>
16	Ocean	Hudson Bay	62.2796	-85.906	decimal degrees	Unknown	GPS - Unspecified
18	Ocean	Hudson Bay	63.7138	-88.417	decimal degrees	Unknown	GPS - Unspecified
21	Ocean	Hudson Bay	60.9113	-89.3586	decimal degrees	Unknown	GPS - Unspecified
24	Ocean	Hudson Bay	61.6966	-87.7641	decimal degrees	Unknown	GPS - Unspecified
25	Ocean	Hudson Bay	62.0219	-87.0088	decimal degrees	Unknown	GPS - Unspecified
36	Ocean	Hudson Bay	57.774	-86.0311	decimal degrees	Unknown	GPS - Unspecified
38	Ocean	Hudson Bay	58.7224	-86.3045	decimal degrees	Unknown	GPS - Unspecified
40	Ocean	Hudson Bay	58.2327	-88.5633	decimal degrees	Unknown	GPS - Unspecified

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### SAMPLE VARIABLE DETAILS

Variable Name*	Variable Description	Variable Speciation	Variable Sample Fraction*	Variable Media Type	Activity Collection Type	Result Value Type
Project	BaySys	None	None	Other	n/a	Actual
Year		None	None	Other	n/a	Actual
Month		None	None	Other	n/a	Actual
Day		None	None	Other	n/a	Actual
Station	ID	None	None	Other	n/a	Actual
Lat	Latitude in Decimal Degrees	None	None	Other	Satellite	Actual
Long	Longitude in Decimal Degrees	None	None	Other	Satellite	Actual
Bottom_Core_height_cm	Height of the collected ice core bottom section	None	None	Ice Core	Field Observation	Actual
Sample_Type	Bottom ice	None	None	Other	Field Observation	Actual
Sample_Volume_mL	Sample Volume	None	None	Ice Core	Field Observation	Actual

Microscope_Magnification	Used microscope magnification for cell identification	None	None	Other	n/a	Actual
Dilution_Factor	The sample volume was corrected for the dilution of the bottom ice cores in filtered seawater during the melt process	None	None	Other	n/a	Actual
Settled_Volume_mL	Settled sample volume in counting chamber	None	None	Other	n/a	Actual

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Sample	Number of sample duplicate (T1 – T5) or total cells per liter for each species group	None	None	Other	n/a	Actual
Species groups	Number of individuals identified for each group	None	Whole	Organism	Field Observation	Actual

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### DATA FILE DETAILS

Column Name*	Unit	CanWIN Standardized-Name	Description	Statistic Applied
Bottom_Core_height_cm	cm		Height of the collected ice core bottom section	
Sample_Type	none		Ice	
Sample_Volume_mL	none		Sample Volume	
Microscope_Magnification	mL		Used microscope magnification for cell identification	
Dilution_Factor	none		The sample volume was corrected for the dilution of the bottom ice cores in filtered seawater during the melt process	
Settled_Volume_mL	mL		Settled sample volume in counting chamber	
Sample	none		Number of sample duplicate (T1 – T5) or total cells per liter for each species group	
Species groups	none		Number of individuals identified for each group	

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**Table 1. Code list**

CanWIN Short Code	Definition	User Code
ADL	Above Detection Limit	
BDL	Below Detection Limit	
\$	Incorrect sample container	
EFAI	Equipment failure, sample lost	
FEF	Field equipment failed	
FEQ	Field Equipment Questionable	
FFB	Failed. Field blank not acceptable.	
FFD	Failed. Field Duplicate.	
FFS	Failed. Field spike not acceptable.	
H	Holding time exceeded	
ISP	Improper sample preservation	
ITNA	Incubation time not attained	
ITNM	Incubation temperature not maintained	
JCW	Sample container damaged, sample lost	
NaN	Value is missing and reason is not known	
NC	Not collected	
ND	Not detected	Correct QF for Zeros in dataset
NR	Sample taken/measured on site but information in this field not recorded	
NS	Sample collected but not submitted	
OC	Master Coordinate List Used	
P	Analysis requested and result pending	
prob_good	probably good value. Data value that is probably consistent with real phenomena but this is unconfirmed or data value forming part of a malfunction that is considered too small to affect the overall quality of the data object of which it is a part.	
prob_bad	probably bad value. Data value recognised as unusual during quality control that forms part of a feature that is probably inconsistent with real phenomena.	
Interpolated	This value has been derived by interpolation from other values in the data object.	
Q	Below limit of quantification (LOQ). The value was below the LOQ of the analytical method. The value in the result field is the limit of quantification (limit of detection) for the method.	
LAF	Lab Analysis Failure (value cannot be trusted due to detected lab instrument	New code added by LCM

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	failure (e.g. contamination) during sample processing	
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**Table 2. Options for Statistics Applied**

Statistics Applied	Description
30DADMean	Thirty-day average daily mean
7DADM	Seven-day average daily maximum
7DADMean	Seven-day average daily mean
7DADMin	Seven-day average daily minimum
Coefficient of variation	The ratio of the standard deviation $\sigma$ to the mean, $\mu$ .
Daily Geometric Mean	Provides a number that is more representative of the median and helps reduce the effect of a few extreme values.
Daily Maximum	The largest value of a set, each period of a day cycle
Daily Minimum	The smallest value of a set, each period of a day cycle
Hourly Maximum	The largest value of a set, each period of an hour cycle
Hourly Minimum	The smallest value of a set, each period of an hour cycle
MatLab script	Provide the MatLab script or the link to it
Mean	The sum of all the numbers in the set divided by the amount of numbers in the set
Median	The middle point of a number set, in which half the numbers are above the median and half are below.
None	None
R script	Provide the R script or the link to it
Standard Deviation	This describes the spread of values in the sample
Standard Error	The standard deviation of the sample mean, $\bar{x}$ , which describes its accuracy as an estimate of the population mean, $\mu$ .