Dataset Description

Station Information

ID*	Type*	Location	Latitude*	Longitude*	Coordinate System Units	Coordinate Reference System	Coordinate Collection Method
4	Ocean	Hudson Bay	62.0404	-69.6149	decimal degrees	Unknown	GPS - Unspecified
9	Ocean	Hudson Bay	63.7288	-79.9282	decimal degrees	Unknown	GPS - Unspecified
11	Ocean	Hudson Bay	62.865	-78.8966	decimal degrees	Unknown	GPS - Unspecified
15	Ocean	Hudson Bay	63.1939	-81.9189	decimal degrees	Unknown	GPS - Unspecified
16	Ocean	Hudson Bay	62.2796	-85.906	decimal degrees	Unknown	GPS - Unspecified
17	Ocean	Hudson Bay	63.1845	-90.0344	decimal degrees	Unknown	GPS - Unspecified
18	Ocean	Hudson Bay	63.7138	-88.417	decimal degrees	Unknown	GPS - Unspecified
19	Ocean	Hudson Bay	61.848	-92.1103	decimal degrees	Unknown	GPS - Unspecified
20	Ocean	Hudson Bay	61.3757	-90.942	decimal degrees	Unknown	GPS - Unspecified
21	Ocean	Hudson Bay	60.9113	-89.3586	decimal degrees	Unknown	GPS - Unspecified
22	Ocean	Hudson Bay	60.4233	-94.0022	decimal degrees	Unknown	GPS - Unspecified
23	Ocean	Hudson Bay	60.923	-91.7818	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

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28	Ocean	Hudson Bay	62.4145	-89.8323	decimal degrees	Unknown	GPS - Unspecified
34	Ocean	Hudson Bay	56.5062	-86.8942	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
46	Ocean	Hudson Bay	57.5021	-91.8162	decimal degrees	Unknown	GPS - Unspecified

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
Depth_m	Water depth	None	None	Other	Field Observation	Actual

Dataset Description

Water_depth_type	Surface, Ice-water interface, Subsurface	None	None	Seawater	Field Observation	Actual

	chlorophyll maximum					
Sample_Type	Water	None	None	Other	Field Observation	Actual
Sample_Volume_mL	Sample Volume	None	None	Other	n/a	Actual
Microscope_Magnification	Used microscope magnification for cell identification	None	None	Other	n/a	Actual
Settled_Volume_mL	Settled sample volume in counting chamber	None	None	Seawater	n/a	Actual
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

Dataset Description

DATA FILE DETAILS

Column Name*	Unit	Description	Statistic Applied
Depth_m	m	Water depth	
Water_depth_type		Surface, Ice-water interface, Subsurface chlorophyll maximum	
Sample_Type	none	Water	
Sample_Volume_mL	mL	Sample Volume	
Microscope_Magnification		Used microscope magnification for cell identification	
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	

Dataset Description

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

Dataset Description

	failure (e.g. contamination) during sample processing	

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 σ to the mean, μ.
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, μ.