

DEPLOYMENT INFORMATION

Platform Deployment				
Name	Type	Start Date	End Date	Deployment ID
None	orbiting satellite	N/A	N/A	

Station Information							
ID*	Type*	Location	Latitude*	Longitude*	Coordinate System Units	Coordinate Reference System	Coordinate Collection Method
N/A	Choose an item.	N/A	N/A	N/A	decimal degrees	WGS84	Interpolation - Satellite

COLLECTION AND ANALYSIS PROCEDURES

Analytical Method	
Name*	Satellite-detection of sea-ice edge phytoplankton blooms
Link	https://online.ucpress.edu/elementa/article/8/1/039/114490/Climate-control-of-sea-ice-edge-phytoplankton
Summary	<i>Magnitude of sea-ice edge bloom</i>
Laboratory	<i>Aquatel/UQAR</i>
Citation	<p>Barbedo, L, et al. 2020. Climate control of sea-ice edge phytoplankton blooms in the Hudson Bay system. Elem Sci Anth, 8: XX. DOI: https://doi.org/10.1525/elementa.039</p> <p>Perrette, M, Yool, A, Quartly, GD, Popova, EE. 2011. Near-ubiquity of ice-edge blooms in the Arctic. Biogeosci 8(2): 515–524. DOI: http://dx.doi.org/10.5194/bg-8-515-2011.</p> <p>Lowry, KE, van Dijken, GL, Arrigo, KR. 2014. Evidence of under-ice phytoplankton blooms in the Chukchi Sea from 1998 to 2012. Deep Sea Res 105: 105–117. DOI: http://dx.doi.org/10.1016/j.dsr2.2014.03.013.</p>

	<p>Renaut, S, Devred, E, Babin, M. 2018. Northward expansion and intensification of phytoplankton growth during the early ice-free season in Arctic. <i>GeophysRes Lett</i> 45(19). DOI: http://dx.doi.org/10.1029/2018GL078995.</p>
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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
<i>annual_MIZbloom</i>	Maximum magnitude of sea-ice edge chlorophyll-a concentration	None	None	Seawater	n/a	Calculated
<i>annual_Sealce_retreat</i>	Day of the year of the sea-ice retreat	None	None	Seawater	n/a	Calculated
<i>lat</i>	Latitude in Decimal Degrees	None	None	Seawater	n/a	Calculated
<i>lon</i>	Longitude in Decimal Degrees	None	None	Seawater	n/a	Calculated

Variable	Detection Limit Value (Unit)
annual_MIZbloom	mg/m ³
<i>annual_Sealce_retreat</i>	Day of the year
lat	degree
lon	degree

DATA FILE DETAILS

Column Name*	Unit	Description	Statistic Applied
annual_MIZbloom			MatLab script
<i>annual_Sealce_retreat</i>			MatLab script
<i>lon</i>	Decimal Degrees		MatLab script
<i>lat</i>	Decimal Degrees		MatLab script