

Metadata

Dataset Name	Arctic Sea Ice Phenology from Passive Microwave Satellite Retrievals
Dataset General Type	Satellite Remote Sensing
Dataset Type	Dataset
Dataset Level	2
Program Website	https://umanitoba.ca/earth-observation-science/julienne-stroeve-project-page
Keyword Vocabulary	Polar Data Catalogue
Keyword Vocabulary URL	https://www.polardata.ca/pdcinput/public/keywordlibrary
Theme	
Title	Cryosphere
URL	https://canwin-datahub.ad.umanitoba.ca/data/en/group/cryosphere
Dataset Status	In Progress
Maintenance and Update Frequency	As needed
Dataset Last Revision Date	2025-09-23
Dataset DOI	10.34992/7zhd-1s66
Metadata Creation Date	2026
Publisher	CanWIN

Dataset Authors

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Affiliation**Dataset****Collection**

1979-01-01

Start Date**Dataset****Collection**

2024-04-30

End Date**Sample****Collection****Sample****Collection 1****Sampling
Instrument
Name****Standardized
Sampling
Instrument
Name****Sample
Collection
Method Name****Comment****Method Link****Method
Summary****Method
Description
Type** Methods**Activity****Collection****Type****Preferred****citation****Analytical****Instrument****Analytical****Instrument 1****Analytical
Instrument
Name**

Standardized Analytical Instrument Name	
Analytical Instrument Identifier Id	
Analytical Instrument Title Type	Alternative Title
Analytical Instrument Identifier Type	
Analytical Method	
Analytical Method 1	
Analytical Method Name	
Method Link	
Method Summary	
Laboratory	
Comments	
Variables Measured	
License Name	Creative Commons Attribution 4.0 International
Licence Type	Open
Embargo Date	
Licence URL	https://spdx.org/licenses
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Awards

Awards 1

Award Title

Website

Funder Name

Funder Identifier Code

Funder Identifier Type

Funder Identifier Scheme

Grant Number

Related Resources

Related Resources 1

Related Resource Name Bootstrap Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I-SSMIS, Version 3

Resource Code 10.5067/7Q8HCCWS4I0R

Identifier Type DOI

Relationship To This Dataset IsRequiredBy

Resource Type Online Resource

Type Dataset

Series Name

Related Resources 2

Related Resource Name Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I-SSMIS Passive Microwave Data, Version 2

Resource Code 10.5067/MPYG15WAA4WX

Identifier Type DOI

Relationship To This Dataset IsRequiredBy

Resource Type Online Resource

Type Dataset

Series Name

Related Resources 3

Related Resource Name Sea Ice Phenology Code

Resource Code 10.5281/zenodo.4730450

Identifier Type DOI

Relationship To This Dataset Compiles

Resource Type Online Resource

Type Software

Series Name

Publications

Publications 1

Publication Name Using timing of ice retreat to predict timing of fall freeze-up in the Arctic

Identifier Code 10.1002/2016GL069314

Identifier Type DOI

Relationship to this dataset Describes

Resource Type Online Resource

Publication Type JournalArticle

Spatial regions

Spatial extent West Bound Longitude -180.0

Spatial extent East Bound Longitude 180.0

Spatial extent South Bound Latitude	45.0
Spatial extent North Bound Latitude	90.0

Data and Resources

URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/9c53f9b8-3c77-45d3-882e-acc3571c7e30/resource/d4aeb2d1-616b-40d0-b977-87054e3cc0b2/download/siphenologyc15_bootstrap_1979-2023.nc
Name	Bootstrap Sea Ice Phenology - 15% Threshold
Description	Annual fields of Sea Ice Phenology derived from the Bootstrap sea ice concentration dataset (1979-2023) and using 15% as the sea ice concentration threshold. Projection is North Polar Stereographic (EPSG 3413). Horizontal resolution is 25 km. Additional metadata is embedded in the netcdf file.
Format	NetCDF
Resource Category	data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/9c53f9b8-3c77-45d3-882e-acc3571c7e30/resource/18b96071-1db4-46da-a8fe-c6b8eba57f2c/download/siphenologyc80_bootstrap_1979-2023.nc
Name	Bootstrap Sea Ice Phenology - 80% Threshold
Description	Annual fields of Sea Ice Phenology derived from the Bootstrap sea ice concentration dataset (1979-2023) and using 80% as the sea ice concentration threshold. Projection is North Polar Stereographic (EPSG 3413). Horizontal resolution is 25 km. Additional metadata is embedded in the netcdf file.
Format	NetCDF
Resource Category	data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/9c53f9b8-3c77-45d3-882e-acc3571c7e30/resource/740ac604-fdc5-4901-b9d2-479f7244f691/download/siphenologyc15_nasateam_1979-2023.nc
Name	NASA Team Sea Ice Phenology - 15% Threshold
Description	Annual fields of Sea Ice Phenology derived from the NASA Team sea ice concentration dataset (1979-2023) and using 15% as the sea ice concentration threshold. Projection is North Polar Stereographic (EPSG 3413). Horizontal resolution is 25 km. Additional metadata is embedded in the netcdf file.
Format	NetCDF

Resource Category	data
URL	https://canwin-datahub.ad.umanitoba.ca/data/dataset/9c53f9b8-3c77-45d3-882e-acc3571c7e30/resource/05f6bb6e-c976-4691-8608-af1bbb4d6ef5/download/siphenologyc80_nasateam_1979-2023.nc
Name	NASA Team Sea Ice Phenology - 80% Threshold
Description	Annual fields of Sea Ice Phenology derived from the NASA Team sea ice concentration dataset (1979-2023) and using 80% as the sea ice concentration threshold. Projection is North Polar Stereographic (EPSG 3413). Horizontal resolution is 25 km. Additional metadata is embedded in the netcdf file.
Format	NetCDF
Resource Category	data