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	2023-07-07
Dataset DOI	10.34992/7zhd-1s66
Metadata Creation Date	2023
Publisher	CanWIN

Dataset Authors

Dataset Authors 1

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Contributors

Contributors 1

Name	
Role	
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Project Data Curator

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Project Data Curator email

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Project Data Curator Affiliation

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Dataset Collection Start Date

1979-01-01

Dataset Collection End Date

2021-12-31

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_1979-2021.nc
Name	Bootstrap Sea Ice Phenology - 15% Threshold
Description	Annual fields of Sea Ice Phenology derived from the Bootstrap sea ice concentration dataset (1979-2021) 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_1979-2021.nc
Name	Bootstrap Sea Ice Phenology - 80% Threshold
Description	Annual fields of Sea Ice Phenology derived from the Bootstrap sea ice concentration dataset (1979-2021) 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_1979-2021.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 (1979-2021) 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_1979-2021.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 (1979-2021) 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