

# Metadata

|   |   |
|---|---|
| <b>Dataset Name</b>                     | Arctic Sea Ice Phenology from Passive Microwave Satellite Retrievals  |
| <b>Dataset General Type</b>             | Satellite Remote Sensing  |
| <b>Dataset Type</b>                     | Dataset   |
| <b>Dataset Level</b>                    | 2   |
| <b>Program Website</b>                  | <a href="https://umanitoba.ca/earth-observation-science/julienne-stroeve-project-page">https://umanitoba.ca/earth-observation-science/julienne-stroeve-project-page</a> |
| <b>Keyword Vocabulary</b>               | Polar Data Catalogue  |
| <b>Keyword Vocabulary URL</b>           | <a href="https://www.polardata.ca/pdcinput/public/keywordlibrary">https://www.polardata.ca/pdcinput/public/keywordlibrary</a>   |
| <b>Theme</b>                            |   |
| <b>Title</b>                            | Cryosphere  |
| <b>URL</b>                              | <a href="https://canwin-datahub.ad.umanitoba.ca/data/fr/group/cryosphere">https://canwin-datahub.ad.umanitoba.ca/data/fr/group/cryosphere</a>                           |
| <b>Dataset Status</b>                   | In Progress   |
| <b>Maintenance and Update Frequency</b> | As needed   |
| <b>Dataset Last Revision Date</b>       | 2023-07-07  |
| <b>Dataset DOI</b>                      | 10.34992/7zhd-1s66  |
| <b>Metadata Creation Date</b>           | 2023  |
| <b>Publisher</b>                        | CanWIN  |

## Dataset Authors

### Dataset Authors 1

**Name** Crawford, Alex

**Type of Name** Personal

**Email** [alex.crawford@umanitoba.ca](mailto:alex.crawford@umanitoba.ca)

**Affiliation** Centre for Earth Observation Science - University of Manitoba

**ORCID ID** 0000-0003-1561-290X

ORCID

<http://orcid.org/>

### Dataset Authors 2

**Name** Stroeve, Julienne

**Type of Name** Personal

**Email** [julienne.stroeve@umanitoba.ca](mailto:julienne.stroeve@umanitoba.ca)

**Affiliation** Centre for Earth Observation Science - University of Manitoba

**ORCID ID** 0000-0001-7316-8320

ORCID

<http://orcid.org/>

## Contributors

### Contributors 1

**Name**

**Role**

**Email**

**Affiliation**

**ORCID ID**

### Project Data Curator

Crawford, Alex

### Project Data Curator email

[alex.crawford@umanitoba.ca](mailto:alex.crawford@umanitoba.ca)

**Project Data****Curator**

Centre for Earth Observation Science - University of Manitoba

**Affiliation****Dataset****Collection**

1979-01-01

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

2021-12-31

**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**

|  |  |
|--|--|
| <b>Standardized Analytical Instrument Name</b> |  |
| <b>Analytical Instrument Identifier Id</b>     |  |
| <b>Analytical Instrument Title Type</b>        | Alternative Title  |
| <b>Analytical Instrument Identifier Type</b>   |  |
| <b>Analytical Method</b>                       |  |
| <b>Analytical Method 1</b>                     |  |
| <b>Analytical Method Name</b>                  |  |
| <b>Method Link</b>                             |  |
| <b>Method Summary</b>                          |  |
| <b>Laboratory</b>                              |  |
| <b>Comments</b>                                |  |
| <b>Variables Measured</b>                      |  |
| <b>License Name</b>                            | Creative Commons Attribution 4.0 International   |
| <b>Licence Type</b>                            | Open   |
| <b>Embargo Date</b>                            |  |
| <b>Licence URL</b>                             | <a href="https://spdx.org/licenses">https://spdx.org/licenses</a>  |
| <b>Terms of Access</b>                         | CanWIN datasets are licensed individually, however most are licensed under the Creative Commons Attribution 4.0 International (CC BY 4.0) Public License. Details for the licence applied can be found using the Licence URL link provided with each dataset. By using data and information provided on this site you accept the terms and conditions of the License. Unless otherwise specified, the license grants the rights to the public to use and share the data and results derived therefrom as long as the proper acknowledgment is given to the data licensor (citation), that any alteration to the data is clearly indicated, and that a link to the original data and the license is made available. |
| <b>Terms of Use</b>                            | By accessing this data you agree to [CanWIN's Terms of Use](/data/publication/canwin-data-statement/resource/5b942a87-ef4e-466e-8319-f588844e89c0).  |

## 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

|  |      |
|--|------|
| <b>Spatial extent South Bound Latitude</b> | 45.0 |
| <b>Spatial extent North Bound Latitude</b> | 90.0 |

## Data and Resources

|                          |   |
|--------------------------|---|
| <b>URL</b>               | <a href="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">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</a> |
| <b>Name</b>              | Bootstrap Sea Ice Phenology - 15% Threshold   |
| <b>Description</b>       | 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.  |
| <b>Format</b>            | NetCDF  |
| <b>Resource Category</b> | data  |
| <b>URL</b>               | <a href="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">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</a> |
| <b>Name</b>              | Bootstrap Sea Ice Phenology - 80% Threshold   |
| <b>Description</b>       | 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.  |
| <b>Format</b>            | NetCDF  |
| <b>Resource Category</b> | data  |
| <b>URL</b>               | <a href="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">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</a>   |
| <b>Name</b>              | NASA Team Sea Ice Phenology - 15% Threshold   |
| <b>Description</b>       | 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.  |
| <b>Format</b>            | NetCDF  |

|                          |   |
|--------------------------|---|
| <b>Resource Category</b> | data  |
| <b>URL</b>               | <a href="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">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</a> |
| <b>Name</b>              | NASA Team Sea Ice Phenology - 80% Threshold   |
| <b>Description</b>       | 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.  |
| <b>Format</b>            | NetCDF  |
| <b>Resource Category</b> | data  |