



National Snow and Ice Data Center
Advancing knowledge of Earth's frozen regions



Data Citation: ESIP, AGU, and NSIDC

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The Federation of Earth Science Information Partners (ESIP)

- “an open networked community that brings together Earth science, data and information technology practitioners”
- Sponsored by NASA and NOAA
- More than 150 members:
 - Type I - data centers,
 - Type II - service providers, and
 - Type III - commercial and non-commercial tool developers

ESIP Data Citation Guidelines (1/2)

- Data Citation Guidelines approved by the ESIP Assembly 5 January, 2012
- Mandatory content:
 - Author
 - Release Date
 - Title
 - Archive and/or Distributor
 - Version
 - Locator, Identifier, or Distribution Medium
 - Access Date and Time

ESIP Data Citation Guidelines (2/2)

- Suggested Content as Needed:
 - Subset Used
 - Editor, Compiler, or other important role
 - Archive or Distributor Place
 - Distributor, Associate Archive, or other Institutional Role
 - Data Within a Larger Work
- More than 20 citation examples included:
 - Bockheim, J. 2003. "University of Wisconsin Antarctic Soils Database". In International Permafrost Association Standing Committee on Data Information and Communication (comp.). 2003. Circumpolar Active-Layer Permafrost System, Version 2.0. Edited by M. Parsons and T. Zhang. Boulder, CO: National Snow and Ice Data Center/World Data Center for Glaciology. CD-ROM.

Policy (1/2)

- “AGU’s new Data Policy states that all data necessary to understand, evaluate, replicate, and build upon the reported research must be made available and accessible whenever possible. In addition to continuing AGU’s high submission and peer review standards, the policy requires:
 - [1] that data availability is listed in the Acknowledgments section of the manuscript.
 - [2] Data policy compliance is acknowledged during manuscript submission in GEMS.
 - [3] If data are not available (such as for proprietary or security reasons), a statement to this effect explaining the details for requesting a data policy waiver is included in the Acknowledgment section of the manuscript AND in the Cover Letter.
 - **[4] Published data sets should be cited according to [ESIP Commons guidelines](#).**”

Policy (2/2)

- “For the purposes of this policy, data include, but are not limited to, the following:
 - Data used to generate, or be displayed in, figures, graphs, plots, videos, animations, or tables in a paper.
 - New protocols or methods used to generate the data in a paper.
 - New code/computer software used to generate results or analyses reported in the paper.
 - Derived data products reported or described in a paper.
- AGU encourages authors to identify and archive their data in approved data centers.
- If there is no relevant public repository available, and the data are such that they cannot easily be included in a supplement, authors are expected to curate the above data for at least 5 years after publication and provide a transparent process to make the data available to anyone upon request.”

- All 963 data sets in NSIDC's catalog have suggested data citations available from their landing page
- Most data sets now have DOI's with the exception of:
 - NASA data: Manual process in progress
 - Externally held data: Brokered data held by some other entity

Multisensor Analyzed Sea Ice Extent - Northern Hemisphere (MASIE-NH)

[Documentation](#) [Product Web Site](#) [FTP](#)

The Multisensor Analyzed Sea Ice Extent Northern Hemisphere (MASIE-NH) products provide measurements of daily sea ice extent and sea ice edge boundary for the Northern Hemisphere and 16 Arctic regions in a polar stereographic projection. Products include an ASCII text file of sea ice extent values in square km over the entire Northern Hemisphere with 16 separate Arctic regions identified, time series plots of the 16 regions, and image files that visually show where the sea ice is. The MASIE-NH imagery are provided at a nominal 4 km resolution. The input data comes from the 4 km Interactive Multisensor Snow and Ice Mapping System (IMS) snow and ice product produced by the National Ice Center (NIC). NIC utilizes visible imagery, passive microwave data, and NIC weekly analysis products to create their data product. The MASIE-NH products are distributed in a number of formats including ASCII text, GeoTIFF, PNG, shapefiles, and Google Earth files and are available for the previous four weeks (28 days). The most recent days worth of imagery plus the ASCII text data file are provided via the MASIE Web site. An archive of the previous four weeks of imagery can be obtained via FTP.

Note: MASIE may look like several other sea ice products distributed at NSIDC and elsewhere, but its source data and intended uses are different. If intended and appropriate uses of the data are not clear after reading the documentation, please contact [NSIDC User Services](#).

[View Metadata Record](#)

Data Citation

The following example shows how to cite the use of this data set in a publication. For more information, see our [Use and Copyright](#) Web page.

National Ice Center and NSIDC. Compiled by F. Fetterer, M. Savoie, S. Helfrich, and P. Clemente-Colón. 2010. *Multisensor Analyzed Sea Ice Extent - Northern Hemisphere (MASIE-NH)*. [indicate subset used]. Boulder, Colorado USA: National Snow and Ice Data Center. <http://dx.doi.org/10.7265/N5GT5K3K>.

See Also

- [IMS Daily Northern Hemisphere Snow and Ice Analysis](#)
- [Sea Ice Index](#)
- [NIC Arctic Sea Ice Charts and Climatologies](#)

NOAA

NOAA catalog

Data Contributors

- FETTERER, FLORENCE
- CLEMENTE-COLÓN, PABLO
- SAVOIE, MATTHEW
- HELFRICH, SEAN

Parameters

- SEA ICE > ICE EDGES
- SEA ICE > ICE EXTENT
- SEA ICE > ICE GROWTH/MELT

Instruments

- AMSR-E : ADVANCED MICROWAVE SCANNING RADIOMETER-EOS
- AMSU-A : ADVANCED MICROWAVE SOUNDING UNIT-A
- AMSU-B : ADVANCED MICROWAVE SOUNDING UNIT B (AMSU-B)
- ASAR : ADVANCED SYNTHETIC APERTURE RADAR

ASK US

