

Resource Summary Report

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National Snow and Ice Data Center

RRID:SCR_002220

Type: Tool

Proper Citation

National Snow and Ice Data Center (RRID:SCR_002220)

Resource Information

URL: <http://nsidc.org/>

Proper Citation: National Snow and Ice Data Center (RRID:SCR_002220)

Description: National data center / repository for snow and ice data including snow, ice, glaciers, frozen ground, and climate interactions that make up Earth's cryosphere. The center manages and distributes scientific data, creates tools for data access, supports data users, performs scientific research, and educates the public about the cryosphere. Users may explore the Earth's frozen places in the collection of photographs and images. Photographs from field research trips, images captured by satellites of the changing cryosphere, and photos and images are available. Data sets are organized into the following groups: sea ice, frozen ground, snow cover, snow hydrology, glaciers and ice sheets, arctic people.

Abbreviations: NSIDC

Synonyms: National Snow & Ice Data Center

Resource Type: data or information resource, data repository, database, image collection, service resource, storage service resource

Defining Citation: [PMID:32116128](#)

Keywords: polar, snow, ice, climate, photo, visualization, sea ice, arctic, meteorology, frozen, antarctica, arctic region, sea ice, satellite, ice sheet, global warming, glacier, frozen ground, cryosphere, climatology, arctic people, snow cover, snow hydrology, catalog, data set, interaction, FASEB list

Funding: NASA ;
NSF ;
NOAA

Availability: Public, Unless specifically stated that the information has limitations for its use, Acknowledgement requested, Free, Photos come from a variety of sources, And may have different copyright restrictions and credits.

Resource Name: National Snow and Ice Data Center

Resource ID: SCR_002220

Alternate IDs: DOI:10.7265, nlx_154742, DOI:10.25504/FAIRsharing.k9vqye, DOI:10.17616/R3HP4V, DOI:10.5067/

Alternate URLs: <https://doi.org/10.17616/R31NJMJB>, <https://doi.org/10.17616/r3HP4V>, <https://doi.org/10.7265/>, <https://dx.doi.org/10.7265/>, <https://fairsharing.org/10.25504/FAIRsharing.k9vqye>, <https://doi.org/10.5067/>, <https://dx.doi.org/10.5067/>

Record Creation Time: 20220129T080212+0000

Record Last Update: 20260821T193637+0000

Ratings and Alerts

No rating or validation information has been found for National Snow and Ice Data Center.

No alerts have been found for National Snow and Ice Data Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Tao X, et al. (2026) The effects of human activity and snow cover on the distribution of mammals and terrestrial birds in the Altai Mountains under climate change. Communications biology, 9(1).

Yao Z, et al. (2026) Transforming global water cycle observations via synergistic AI and remote sensing. Science advances, 12(25), eaef3610.

Florko KRN, et al. (2026) Top-Down and Bottom-Up Processes Jointly Explain Mesopredator Movement and Foraging Ecology. Ecology letters, 29(3), e70364.

Wu Q, et al. (2025) Pacific sub-decadal sea surface temperature variations contributed to recent Aantarctic Sea ice decline trend. Nature communications, 16(1), 3386.

- Fioravanti G, et al. (2025) A dataset for monitoring agricultural drought in Europe. *Scientific data*, 12(1), 308.
- Nielsen EB, et al. (2023) Antarctic daily mesoscale air temperature dataset derived from MODIS land and ice surface temperature. *Scientific data*, 10(1), 833.
- Moreau S, et al. (2023) Wind-driven upwelling of iron sustains dense blooms and food webs in the eastern Weddell Gyre. *Nature communications*, 14(1), 1303.
- Liu X, et al. (2022) Spatial distribution and potential sources of arsenic and water-soluble ions in the snow at Ili River Valley, China. *Chemosphere*, 295, 133845.
- Corso AD, et al. (2022) Climate drives long-term change in Antarctic Silverfish along the western Antarctic Peninsula. *Communications biology*, 5(1), 104.
- Liu Z, et al. (2022) Respiratory loss during late-growing season determines the net carbon dioxide sink in northern permafrost regions. *Nature communications*, 13(1), 5626.
- Scoto F, et al. (2022) Sea ice fluctuations in the Baffin Bay and the Labrador Sea during glacial abrupt climate changes. *Proceedings of the National Academy of Sciences of the United States of America*, 119(44), e2203468119.
- Yadav J, et al. (2022) Sea ice variability and trends in the Indian Ocean sector of Antarctica: Interaction with ENSO and SAM. *Environmental research*, 212(Pt D), 113481.
- Lin Y, et al. (2021) Decline in plankton diversity and carbon flux with reduced sea ice extent along the Western Antarctic Peninsula. *Nature communications*, 12(1), 4948.
- Koch CW, et al. (2021) Female Pacific walruses (*Odobenus rosmarus divergens*) show greater partitioning of sea ice organic carbon than males: Evidence from ice algae trophic markers. *PloS one*, 16(8), e0255686.
- Babbel BJ, et al. (2021) ICESat-2 Elevation Retrievals in Support of Satellite-Derived Bathymetry for Global Science Applications. *Geophysical research letters*, 48(5), e2020GL090629.
- Magruder L, et al. (2021) ICESat-2 Early Mission Synopsis and Observatory Performance. *Earth and space science (Hoboken, N.J.)*, 8(5), e2020EA001555.
- Lee E, et al. (2021) Accelerated mass loss of Himalayan glaciers since the Little Ice Age. *Scientific reports*, 11(1), 24284.
- Waga H, et al. (2021) Variability in spring phytoplankton blooms associated with ice retreat timing in the Pacific Arctic from 2003-2019. *PloS one*, 16(12), e0261418.
- Boghosian AL, et al. (2021) Development of Ice-Shelf Estuaries Promotes Fractures and Calving. *Nature geoscience*, 14, 899.
- Barnes DKA, et al. (2021) Societal importance of Antarctic negative feedbacks on climate change: blue carbon gains from sea ice, ice shelf and glacier losses. *Die Naturwissenschaften*, 108(5), 43.