Resource Summary Report

Generated by NIF on Apr 27, 2025

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

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: 20250426T055527+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 46 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

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.

Corso AD, et al. (2022) Climate drives long-term change in Antarctic Silverfish along the western Antarctic Peninsula. Communications biology, 5(1), 104.

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.

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.

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.

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.

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.

Boghosian AL, et al. (2021) Development of Ice-Shelf Estuaries Promotes Fractures and Calving. Nature geoscience, 14, 899.

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.

Solgaard AM, et al. (2020) Hagen Bræ: A Surging Glacier in North Greenland-35 Years of Observations. Geophysical research letters, 47(6), e2019GL085802.

Chen W, et al. (2020) Temporal and spatial variability in snow cover over the Xinjiang Uygur Autonomous Region, China, from 2001 to 2015. PeerJ, 8, e8861.

Koch CW, et al. (2020) Seasonal and latitudinal variations in sea ice algae deposition in the Northern Bering and Chukchi Seas determined by algal biomarkers. PloS one, 15(4), e0231178.

Li B, et al. (2020) Recent fall Eurasian cooling linked to North Pacific sea surface

temperatures and a strengthening Siberian high. Nature communications, 11(1), 5202.

Boucher NP, et al. (2020) Spatial and temporal variability in ringed seal (Pusa hispida) stable isotopes in the Beaufort Sea. Ecology and evolution, 10(10), 4178.

Gailey G, et al. (2020) Effects of sea ice on growth rates of an endangered population of gray whales. Scientific reports, 10(1), 1553.