Request to Archive
With The National Centers for Environmental Information
For Daily Interactive Multi-sensor Snow and Ice Mapping System (IMS) Version 3 additional Layers output
Provided by OSPO

2014-07-02

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

NIC and OSPO

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The National Ice Center (NIC), a tri-agency operational center, operated by the National Oceanic and Atmospheric Administration (NOAA), the United States Navy, and the United States Coast Guard, prepares a daily Northern Hemisphere Snow and Ice chart. This chart, prepared on a polar stereographic projection is centered on the North Pole with a 60 degree latitude of true scale, provides information on the areal coverage of the snow and ice. The visible and Near-infrared imagery of the polar orbiting satellites (POES) and geostationary orbiting environmental satellites (GOES) are the primary tools for the analysis of this snow and ice cover. Low resolution visible data are augmented whenever possible by the visible high resolution imagery and visible GOES, GMS, MTSAT, and METEOSAT data. In addition, ground weather observations, synthetic aperture radar (SAR), microwave scatterometer returns, numerical weather prediction, sea ice models, buoys, reconnaissance flights, and various DMSP visible and microwave products are incorporated into the daily Snow and Ice cover charts available in 1km, 4km, 24 km resolutions. Snow Depth, Ice Concentrations, Ice thickness files are available in GRIB2 4km formats.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2014-08-04
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

v3

6. Describe the level to which the data are processed. For example, are these unprocessed raw observations, derived parameters, quality controlled or inter-calibrated data, etc.?

Level 3

7. Approximate date when the dataset was or will be released to the public:
2014-08-13

8. Who are the expected users of the archived data? How will the archived data be used?
NCEP, NOAA field offices, NASA, NSIDC, US Navy, USAF, USCG, US ARMY, USACE, BOEM, EUMETSAT, GOES R, JPSS, EMCWF, UKMET, Environment Canada, researchers, Rutgers University Global Snow Lab, Hydrological Modelers, NWP modelers, Private companies

9. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?
The Version 2 has been applied operationally at NCEP since 2004. Various peer reviewed publication have been made to assess the current accuracy. V3 has been evaluated during the Configuration Management of the transition to ensure data quality meets customer EDR and CDR requirements.

10. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?
Related to IMS v2 snow and ice cover.

11. List the input datasets and ancillary information used to produce the data.
GOES (E & W) Imager, MeteoSat (MSG (ch 1,2,3) & 7), MTSAT, INDOEX AUTOSNOWICE NH, AVHRR (Channels 1,2,3), MODIS (Channels 1,2,7,8), ASCAT, NIC Marginal Ice Zone, NIC & CIS Ice Charts, Surface Obs (METAR), NOHRSC SNODAS, AFWA Snow Depth, SSMI/S (Derived snow, ice, rain), MMAB Sea Ice Cons, AMSR 2 (Sea Ice & SWE), ATMS MIRS (SWE, Sea Ice Con), VIIRS Snow Cover, VIIRS Sea Ice Concentration, VIIRS Ice Age, VIIRS Imagery (I1, I2, I3, & I5), RadarSat & Sentinel SAR imagery, US Surface RADAR, COOP & GHCN reports, CMC Snow Depth Analysis, CMC RIPS 3D var Ice Analysis, US Navy Arctic Cap (ACNFS) Ice Cons & Thickness, GFS Snow Depth Change (24hrs), Geotagged Webcams

12. List web pages and other links that provide information on the data.
GFDC metadata file for dataset will be included. Lat & Lon for application

13. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.
1. For version 2 http://nsidc.org/data/docs/noaa/g02156_ims_snow_ice_analysis/
   Once operational, Documentation for ATBD will be sent. Documentation is still the development version.

14. Indicate the data file format(s).
1. GRIB 1
2. GeoTIFF
3. ASCII

15. Are the data files compressed?
ZIP

16. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).
NIC.IMS_v3_%y%j00_1km.asc.gz ASCII 1km files
NIC.IMS_v3_%y%j00_4km.asc.gz ASCII 4km files

NIC.IMS_v2_%y%j00_1km.asc.gz ASCII 4km files
NIC.IMS_v3_%y%j00_24km.asc.gz ASCII 24km files
NIC.IMS_ice_v3_%y%j00_1km.GRIB2.gz GRIB2
NIC.IMS_snow_v3_%y%j00__1km.GRIB2.gz GRIB2
NIC.IMS_time_v3_%y%j00_1km.GRIB2.gz GRIB2
NIC.IMS_ice_v3_%y%j00_4km.GRIB2.gz GRIB2
NIC.IMS_snow_v3_%y%j00_4km.GRIB2.gz GRIB2
NIC.IMS_v3_%y%m%d_1km.tif.gz (GeoTiff, .AUX)
NIC.IMS_v2_%y%m%d_4km.tif.gz (GeoTiff, .AUX)
NIC.IMS_v3_%y%m%d_4km.tif.gz (GeoTiff, .AUX)

17. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

The are available upon request.

18. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 5GB
Number of Data Files: 13528

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 14MB per Day
Data File Frequency: 10 per Day
Data Production Start: 2014-08-14

19. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

20. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Silver Spring, MD
System Name: ESPC DDS
System Owner: NESDIS/OSPO
Additional Information:

21. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

22. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown

23. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

24. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

Continue v2 archive. Ensure reanalysis, climate monitoring.

25. Are the data archived at another facility or are there plans to do so? Please explain.

Possibly NSIDC? Funding dependent and will likely not cover entire dataset
http://nsidc.org/data/g02156

26. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

NOAA requirement for archival of Satellite Derived products transitioned into operations

27. Do you have a data management plan for your data?

No

28. Have funds been allocated to archive the data at NCEI?

No

29. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

30. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2014-09-30
Accessible by:

31. Add any other pertinent information for this request.

None