

ATL14 Product Data Dictionary

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description	(Attribute)	This data set (ATL14) contains seasonal gridded land ice elevation.	
level	(Attribute)	L3B	
short_name	(Attribute)	ATL14	
title	(Attribute)	SET_BY_META	
Group 1			
This data set (ATL14) contains seasonal gridded land ice elevation.			
Conventions	(Attribute)	CF-1.7	
COG_MERGE_OR_POINT	(Attribute)	Area	
NCProjection	(Attribute)	version=2;netcdf=7.4;ndbc=1.10.0	
data_release	(Attribute)	SET_BY_PGE	
citation	(Attribute)	Cite these data in publications as follows: The data used in this study were produced by the ICESat-2 Science Project Office at NASA/GSFC. The data archive site is the NASA National Snow and Ice Data Center Distributed Active Archive Center.	
contributor_name	(Attribute)	Benjamin Smith (bsmith@uaw.edu), Tyler Sutcliffe (sutcliffe@uaw.edu), Suzanne Dickinson (sdickins@uaw.edu), Benjamin Jelley (benjamin.jelley@nasa.gov), Denis Felton (denis.felton@nasa.gov), Thomas E Neumann (thomas.neumann@nasa.gov), Helen Fricke (hfricke@uaw.edu), Alex Gardner (alex.gardner@nasa.gov), Laurence Padman (padman@gsr.org), Thorsten Markus (thorsten.markus@nasa.gov), Nathan Kurtz (nathan.kurtz@nasa.gov), Suneel Bhanu (suneel.bhanu@nasa.gov), David W Hancock II (david.w.hancock@nasa.gov), Jeffrey Lee (jlee@nasa.gov)	
contributor_role	(Attribute)	Investigator, Investigator, Investigator, Investigator, Algorithm Developer, Algorithm Developer, Algorithm Developer	
creator_name	(Attribute)	ISFC-1, NPS - ICESat-2 Science Investigator-Act Processing System	
date_created	(Attribute)	2021-11-23T19:38:42.521102Z	
date_type	(Attribute)	UTC	
fileName	(Attribute)	ATL14_CN_0311_100m_001_01.nc	
geospatial_lat_max	(Attribute)	85.0043531	
geospatial_lat_min	(Attribute)	70.58233402	
geospatial_lat_units	(Attribute)	degrees_north	
geospatial_lon_max	(Attribute)	-62.10272897	
geospatial_lon_min	(Attribute)	-127.0928973	
geospatial_lon_units	(Attribute)	degrees_east	
granule_type	(Attribute)	ATL14	
idVersion	(Attribute)	SET_BY_PGE	
history	(Attribute)	SET_BY_PGE	
identifier_product_id	(Attribute)	00110.5687ATLASATL14.001	
identifier_product_id_authority	(Attribute)	http://dx.doi.org	
identifier_product_format_version	(Attribute)	SET_BY_PGE	
identifier_product_type	(Attribute)	ATL14	
institution	(Attribute)	National Aeronautics and Space Administration (NASA)	
instrument	(Attribute)	ATLAS - Advanced Topographic Laser Altimeter System	
keywords	(Attribute)	EARTH SCIENCE > CRYOSPHERE > GLACIERICE SHEETS > GLACIER ELEVATION/ICE SHEET ELEVATION > NONE > NONE > NONE	
keywords_vocabulary	(Attribute)	NASA/GCMD Science Keywords	
license	(Attribute)	Data may not be reproduced or distributed without including the citation for this product included in this metadata. Data may not be distributed in an altered form without the written permission of the ICESat-2 Science Project Office at NASA/GSFC	
naming_authority	(Attribute)	http://dx.doi.org	
reprojection	(Attribute)	4.7.4	
platform	(Attribute)	ICESat-2 > Ice, Cloud, and Land Elevation Satellite-2	
processing_level	(Attribute)	3B	
project	(Attribute)	ICESat-2 > Ice, Cloud, and Land Elevation Satellite-2	
publisher_email	(Attribute)	nps@nasa.gov	
publisher_name	(Attribute)	NSIDC, OIAC - NASA National Snow and Ice Data Center Distributed Active Archive Center	
publisher_url	(Attribute)	http://nsidc.org/data/	
reference_frame	(Attribute)	ITRF2014	
references	(Attribute)	http://nsidc.org/data/icesat2/data.html	
shortName	(Attribute)	ATL14_META	
source	(Attribute)	Spacecraft	
spatial_coverage_type	(Attribute)	Horizontal	
standard_name_vocabulary	(Attribute)	CF-1.6	
summary	(Attribute)	The purpose of ATL14 is to provide an IceSat-2 gridded satellite summary of heights of land-based ice.	
time_coverage_duration	(Attribute)	[0807T12:40:00Z]	
time_coverage_end	(Attribute)	2021-08-23T10:51:09.097191Z	
time_coverage_start	(Attribute)	2019-03-28T11:09:16.298287Z	
time_type	(Attribute)	CCSDS UTCA	
uuid	(Attribute)	16a5534-34d8-4dc8-b44e-98cac79392d3	
verticalDatum	(Attribute)	WGS84	
Label (Array)	DateType(Dims)	long_name	description
Polar_Stereographic CONTIGUOUS	INTEGER, 100	None	None (Source: None)
GeoTransform	(Attribute)	[-1.58e+06 1.00e+02 0.00e+00 -4.80e+05 0.00e+00 -1.00e+02]	
crs_wkt	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222863,AUTHORITY["EPSG","7030"],AUTHORITY["EPSG","6326"],PRIME["Greenwich"],AUTHORITY["EPSG","9601"],UNITS["degree"],0.017453292519943295,AUTHORITY["EPSG","9122"],AUTHORITY["EPSG","4326"],PROJECTION["Polar_Stereographic"],PARAMETER["latitude_of_origin",70],PARAMETER["central_meridian",-45],PARAMETER["scale_factor",1],PARAMETER["false_easting",0],PARAMETER["false_northing",0],UNITS["metre"],1,AUTHORITY["EPSG","9001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG","31473"]]	
false_easting	(Attribute)	0.0	
false_northing	(Attribute)	0.0	
grid_mapping_name	(Attribute)	polar_stereographic	
inverse_flattening	(Attribute)	298.257222863	
latitude_of_projection_origin	(Attribute)	90.0	
scale_factor_at_projection_origin	(Attribute)	1.0	
semi_major_axis	(Attribute)	6378137.0	
semi_minor_axis	(Attribute)	6356752.0	
spatial_epsg	(Attribute)	3143	
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222863,AUTHORITY["EPSG","7030"],AUTHORITY["EPSG","6326"],PRIME["Greenwich"],AUTHORITY["EPSG","9601"],UNITS["degree"],0.017453292519943295,AUTHORITY["EPSG","9122"],AUTHORITY["EPSG","4326"],PROJECTION["Polar_Stereographic"],PARAMETER["latitude_of_origin",70],PARAMETER["central_meridian",-45],PARAMETER["scale_factor",1],PARAMETER["false_easting",0],PARAMETER["false_northing",0],UNITS["metre"],1,AUTHORITY["EPSG","9001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG","31473"]]	
standard_parallel	(Attribute)	[70]	
string_vertical_longitude_hem_pole	(Attribute)	[N]	
cell_area CHUNKED	Float(, 2)	None	Area of each grid cell, accounting for the area distortion in the polar stereographic projections (Source: 3.4)
_NetCDF_Coordinates	(Attribute)	[3 2]	
_NetCDF_Dims	(Attribute)	[3]	
dataType	(Attribute)	float32	
dimensions	(Attribute)	[3 2]	
data_count CHUNKED	Float(, 2)	None	Weighted number of data contributing to each node in the DEM (Source: 5.2.4.4)
_NetCDF_Coordinates	(Attribute)	[3 2]	
_NetCDF_Dims	(Attribute)	[3]	
dataType	(Attribute)	float32	
dimensions	(Attribute)	[3 2]	
grid_mapping CHUNKED	Float(, 2)	None	DEM surface height, referenced to WGS84 (Source: 3.2)
_NetCDF_Coordinates	(Attribute)	[3 2]	
_NetCDF_Dims	(Attribute)	[3]	
dataType	(Attribute)	float32	
dimensions	(Attribute)	[3 2]	
grid_mapping	(Attribute)	Polar_Stereographic	
least_significant_digit	(Attribute)	4	
h_sigma CHUNKED	Float(, 2)	None	Uncertainty in the DEM surface height (Source: 4.1)
_NetCDF_Coordinates	(Attribute)	[3 2]	
_NetCDF_Dims	(Attribute)	[3]	
dataType	(Attribute)	float32	
dimensions	(Attribute)	[3 2]	
grid_mapping	(Attribute)	Polar_Stereographic	
least_significant_digit	(Attribute)	4	
ice_mask CHUNKED	INTEGER, 1(-)	None	Mask indicating 1: ice, 0: ocean or bare land (Source: 3.3.2)

NetCDFCoordinates	(Attribute)	{3 2}		
NetCDFDimid	(Attribute)	3		
satType	(Attribute)	IRB		
dimensions	(Attribute)	{x 1}		
metr_rms	FLAOT(-)	DEM per node data residual	meters	Root-mean-square of the residuals associated with each DEM node
CHUNKED	INVALID_RIB	None		(Source: 5.2.4.4)
NetCDFCoordinates	(Attribute)	{3 2}		
NetCDFDimid	(Attribute)	3		
satType	(Attribute)	IRB02		
dimensions	(Attribute)	{x 1}		
grid_mapping	(Attribute)	Polar_Stereographic		
metr_scaled_rms	FLAOT(-)	DEM per node scaled data uncertainty	counts	Root-mean-square of the error-scaled residuals associated with each DEM node
CHUNKED	INVALID_RIB	None		(Source: 5.2.4.4)
NetCDFCoordinates	(Attribute)	{3 2}		
NetCDFDimid	(Attribute)	3		
satType	(Attribute)	IRB02		
dimensions	(Attribute)	{x 1}		
grid_mapping	(Attribute)	Polar_Stereographic		
x	DOUBLE(-)	Polar stereographic x projection_x_coordinate	meters	x coordinate of the DEM cell centers, in projected coordinates
CHUNKED	INVALID_RIB	None		(Source: 3.2)
NetCDFDimid	(Attribute)	2		
satType	(Attribute)	IRB04		
dimensions	(Attribute)	{x 1}		
y	DOUBLE(-)	Polar stereographic y projection_y_coordinate	meters	y coordinate of the DEM cell centers, in projected coordinates
CHUNKED	INVALID_RIB	None		(Source: 3.2)
NetCDFDimid	(Attribute)	3		
satType	(Attribute)	IRB04		
dimensions	(Attribute)	{x 1}		
Group: METADATA	ISO19115 Structured Metadata Represented within HDF5			
iso_19139_dataset_xml	(Attribute)	SET_BY_META		
iso_19139_series_xml	(Attribute)	SET_BY_META		
Group: METADATAAcquisitionInformation	Describe the group			
Group: METADATAAcquisitionInformationVendor	Describe the group			
description	(Attribute)	ATLAS on ICESat-2 determines the range between the satellite and the Earth's surface by measuring the two-way time delay of short pulses of laser light that it transmits in six beams. It is different from previous operational ice-sheet altimeters in that it is a photon-counting LIDAR. ATLAS records a set of arrival times for individual photons, which are then analyzed to derive surface, vegetation, and cloud properties. ATLAS has six beams arranged in three pairs, so that it samples each of three reference pair tracks with a pair of beams. ATLAS transmits pulses at 10 MHz (giving approximately one pulse every 0.7 m along track. ATLAS's expected pointing control will be better than 90 m RMS).		
identifier	(Attribute)	ATLAS		
pulse_rate	(Attribute)	10000 pps		
type	(Attribute)	Laser Altimeter		
wavelength	(Attribute)	532 nm		
Group: METADATAAcquisitionInformationVendorDocument	Describe the group			
edition	(Attribute)	P16-Release		
publicationDate	(Attribute)	12/11/17		
file	(Attribute)	A document describing the ATLAS instrument will be provided by the ICESat-2 Project Science Office.		
Group: METADATAAcquisitionInformationPlatform	Describe the group			
description	(Attribute)	Ice, Cloud, and Land Elevation Satellite-2		
identifier	(Attribute)	ICESat-2		
type	(Attribute)	Spacecraft		
Group: METADATAAcquisitionInformationPlatformDocument	Describe the group			
edition	(Attribute)	31-Dec-18		
publicationDate	(Attribute)	31-Dec-18		
file	(Attribute)	The Ice, Cloud, and Land Elevation Satellite-2 (ICESat-2) Science requirements, concept, and implementation. Thorsten Markus, Tom Neumann, Anthony Martino, Václav Adadaš, Kelly Brunt, Beata Ciocha, Sinead Farrell, Helen Fricker, Alex Gardner, David Harding, Michael Jasinski, Ron Kwok, Lori Magruder, Dan Lubin, Scott Luthcke, James Monson, Ross Nelson, Amy Neumannsawander, Stephen Palm, Sotir Poyatos, CK Shum, Erik E. Schutz, Benjamin Smith, Yueshi Yang, Jay Zwally. http://dx.doi.org/10.1016/j.rse.2016.12.029		
Group: METADATADataQuality	Describe the group			
scope	(Attribute)	NOT_SET		
Group: METADATADataQualityCompletenessOmission	Describe the group			
evaluatorMethodType	(Attribute)	directInternal		
measureDescription	(Attribute)	TBD		
nameOfMeasure	(Attribute)	TBD		
unitOfMeasure	(Attribute)	TBD		
value	(Attribute)	NOT_SET		
Group: METADATADataQualityDomainConsistency	Describe the group			
evaluatorMethodType	(Attribute)	directInternal		
measureDescription	(Attribute)	TBD		
nameOfMeasure	(Attribute)	TBD		
unitOfMeasure	(Attribute)	TBD		
value	(Attribute)	NOT_SET		
Group: METADATADatasetIdentification	Describe the group			
VersionID	(Attribute)	SET_BY_PGE		
abstract	(Attribute)	The ICESat-2 ATL14 standard data product reports a high-resolution (100 m) digital elevation model (DEM) which is a spatially continuous view of surface height for the ice sheet.		
creationDate	(Attribute)	N/A		
creationDate	(Attribute)	2021-11-23		
credit	(Attribute)	The software that generates the ATL14 product was designed and implemented within the ICESat-2 Science Investigator-led Processing System at the NASA Goddard Space Flight Center in Greenbelt, Maryland.		
fileName	(Attribute)	ATL14_CN_0311_100m_001_01.nc		
language	(Attribute)	eng		
originatorOrganizationName	(Attribute)	GSFC I-SEPS + ICESat-2 Science Investigator-led Processing System		
purpose	(Attribute)	The purpose of ATL14 is to provide an iceSat2 gridded satellite summary of heights of land-based ice.		
shortName	(Attribute)	ATL14		
spatialRepresentationType	(Attribute)	along-track		
status	(Attribute)	onGoing		
topicCategory	(Attribute)	geoscientificInformation		
url	(Attribute)	4824528-981a-48c4-e104-26c8c6a729		
Group: METADATADatasetExtent	Describe the group			
eastBoundLongitude	(Attribute)	-62.102728971		
northBoundLatitude	(Attribute)	85.202425311		
rangeBeginningDateTime	(Attribute)	2018-03-20T11:09:16.295287Z		
rangeEndingDateTime	(Attribute)	2021-08-23T10:51:09.697181Z		
southBoundLatitude	(Attribute)	70.982334021		
westBoundLongitude	(Attribute)	-112.09283731		
Group: METADATADatasetImage	Describe the group			
Group: METADATADatasetImageANC19	Describe the group			
description	(Attribute)	TAI to UTC leapsecond file retrieved from ftp://maia.usno.navy.mil/ser7/tai-utc.dat		
fileName	(Attribute)	SET_BY_PGE		
shortName	(Attribute)	SET_BY_PGE		
url	(Attribute)	SET_BY_PGE		
version	(Attribute)	SET_BY_PGE		
Group: METADATADatasetImageANC38-14	Describe the group			
description	(Attribute)	ISO 19139 XML file containing Series-level metadata information.		
fileName	(Attribute)	fileSD7AATL14_001-series.xml		
shortName	(Attribute)	ANC38-14		
url	(Attribute)	SFFCCE48-C88E-4807-82DC-388D66A1C328		
version	(Attribute)	001		
Group: METADATADatasetImageANC38-14	Describe the group			
description	(Attribute)	ISO 19139 XML file containing DataSet-level metadata information.		
fileName	(Attribute)	fileSD7AATL14_001-dataset.xml		
shortName	(Attribute)	ANC38-14		
url	(Attribute)	956F86A6-F1E7-7445E-9E94-ADCC00917038		
version	(Attribute)	001		
Group: METADATADatasetImageATL11	Describe the group			
description	(Attribute)	ATLAS18B Land Ice Height		

end_cycle	(Attribute)	SET_BY_POE		
end_geosig	(Attribute)	SET_BY_POE		
end_grnt	(Attribute)	SET_BY_POE		
end_imgn	(Attribute)	SET_BY_POE		
end_rg	(Attribute)	SET_BY_POE		
fileName	(Attribute)	SET_BY_POE		
shortName	(Attribute)	SET_BY_POE		
start_cycle	(Attribute)	SET_BY_POE		
start_geosig	(Attribute)	SET_BY_POE		
start_grnt	(Attribute)	SET_BY_POE		
start_imgn	(Attribute)	SET_BY_POE		
start_rg	(Attribute)	SET_BY_POE		
start	(Attribute)	SET_BY_POE		
version	(Attribute)	SET_BY_POE		
Group: METADATA/ImageControl Describe the group				
description	(Attribute)	Text-based keyword-value file generated automatically within the ICESat-2 data system that specifies all of the conditions required for each individual run of the software.		
fileName	(Attribute)	SET_BY_POE		
shortName	(Attribute)	SET_BY_POE		
version	(Attribute)	SET_BY_POE		
Group: METADATA/ProcessStep Describe the group				
identifier	(Attribute)	SET_BY_POE		
processDescription	(Attribute)	Browse processing is performed for each granule SPS products. The browse utility reads data from the granule and produces browse images as defined in the respective product.ATBD. The utility then embeds each browse image into the product within the /Browse group.		
runTimeParameters	(Attribute)	ATL14_CN_0311_100m_001_01.cd		
softwareDate	(Attribute)	Nov 18 2021		
softwareTitle	(Attribute)	Creates ATLAS XML metadata files		
softwareVersion	(Attribute)	Version 5.0		
stepDateTime	(Attribute)	2021-11-29T13:41:02.000000Z		
Group: METADATA/ProcessStep/Metadata Describe the group				
identifier	(Attribute)	atlas_meta		
processDescription	(Attribute)	Metadata information is processed by the metadata utility for each granule produced by SPS. During POE processing, dynamic metadata are written to the product. Additional static information is provided with the metadata template. The metadata utility reads ISO Dataset and Series metadata files and updates the product with static information from within those files. The utility then merges the static and dynamic metadata to creates output ISO19139 Dataset and Series XML files. Finally the utility reads the ISO19139 Dataset and Series XML files into memory and stores the local representations as attributes attached to the METADATA group.		
runTimeParameters	(Attribute)	ATL14_CN_0311_100m_001_01.cd		
softwareDate	(Attribute)	Nov 18 2021		
softwareTitle	(Attribute)	Creates ATLAS XML metadata files		
softwareVersion	(Attribute)	Version 5.0		
stepDateTime	(Attribute)	2021-11-29T13:41:02.000000Z		
Group: METADATA/ProcessStep/POE Describe the group				
ATBDTitle	(Attribute)	15042019		
ATBDTitle	(Attribute)	Algorithm Theoretical Basis Document (ATBD) For Sea Ice Products		
ATBDVersion	(Attribute)	NA		
documentDate	(Attribute)	Feb 2020		
documentation	(Attribute)	ATLAS Science Algorithm Software Design Description (SDD) - Volume 14 (atlas_db_14)		
identifier	(Attribute)	SET_BY_POE		
processDescription	(Attribute)	Computes estimates of daily and monthly average of freeboard heights.		
runTimeParameters	(Attribute)	SET_BY_POE		
softwareDate	(Attribute)	SET_BY_POE		
softwareTitle	(Attribute)	SET_BY_POE		
softwareVersion	(Attribute)	SET_BY_POE		
stepDateTime	(Attribute)	SET_BY_POE		
Group: METADATA/ProcessStep/QA Describe the group				
identifier	(Attribute)	at14_qa_util		
processDescription	(Attribute)	QA processing is performed by an external utility on each granule produced by SPS. The utility reads the granule, performs both generic and product-specific quality-assessment calculations, and writes a text-based quality assessment report. The name and creation date of this report are identified within the QADataSetIdentification metadata.		
runTimeParameters	(Attribute)	ATL14_CN_0311_100m_001_01.cd		
softwareDate	(Attribute)	Nov 23 2021		
softwareTitle	(Attribute)	ATL14 QA Utility		
softwareVersion	(Attribute)	Version 1.0		
stepDateTime	(Attribute)	2021-11-29T13:41:03.000000Z		
Group: METADATA/ProductSpecification/Document Describe the group				
shortName	(Attribute)	ATL14_SDP		
characterSet	(Attribute)	utf8		
edition	(Attribute)	v1.0		
language	(Attribute)	eng		
publicationDate	(Attribute)	Feb 2020		
title	(Attribute)	ICESat-2 SPS-SPEC-4268 - ATLAS Science Algorithm Standard Data Product (SDP) Volume 13 (ATL 14), Revision ..		
Group: METADATA/QADataSetIdentification Describe the group				
abstract	(Attribute)	An ASCII product that contains statistical information on data product results. These statistics enable data processors and users to assess the quality of the data in the data product granule.		
creationDate	(Attribute)	2021-11-29T13:41:03.000000Z		
fileName	(Attribute)	ATL14_CN_0311_100m_001_01-m-qa		
Group: METADATA/SeriesIdentification Describe the group				
VersionID	(Attribute)	SET_BY_POE		
abstract	(Attribute)	The ICESat-2 ATL14 standard data product reports a high resolution (100 m) digital elevation model (DEM) which is a spatially continuous view of surface height for the ice sheet.		
characterSet	(Attribute)	utf8		
credit	(Attribute)	The software that generates the ATL14 product was designed and implemented within the ICESat-2 Science Investigator-led Processing System at the NASA Goddard Space Flight Center in Greenbelt, Maryland.		
format	(Attribute)	HDF		
formatVersion	(Attribute)	5		
identifier_product_IDCI	(Attribute)	64-10.5967/ATLAS/ATL14.001		
language	(Attribute)	eng		
longName	(Attribute)	ATLAS/ICESat-2 L1B Land Ice Height		
maintenanceAndUpgradeFrequency	(Attribute)	asNeeded		
maintenanceDate	(Attribute)	SET_BY_META		
mission	(Attribute)	ICESat 2 - Ice, Cloud, and Land Elevation Satellite-2		
pointOfContact	(Attribute)	NSIDC DAAC > NASA National Snow and Ice Data Center Distributed Active Archive Center		
purpose	(Attribute)	The purpose of ATL14 is to provide an IceSat-2 gridded satellite summary of heights of land-based ice.		
resourceProviderOrganizationName	(Attribute)	National Aeronautics and Space Administration (NASA)		
revisionDate	(Attribute)	2021-08-07		
shortName	(Attribute)	ATL14		
status	(Attribute)	onGoing		
topicCategory	(Attribute)	geoscienceInformation		
Group: IceM_info				
Label (Layout)	DataType(Dims)	long_name	units	description
bounding_polygon_dm1	INTEGER(4)	standard_name		
CONTIGUOUS	-2147483647	None	None	None (Source: None)
_NetCDFDimid	(Attribute)	5		
bounding_polygon_lm1	FLOAT(4)	None	None	None (Source: None)
CONTIGUOUS	9.999209989386989e+36	None	None	None (Source: None)
_NetCDFDimid	(Attribute)	5		
bounding_polygon_lm1	FLOAT(4)	None	None	None (Source: None)
CONTIGUOUS	9.999209989386989e+36	None	None	None (Source: None)
_NetCDFDimid	(Attribute)	5		
Group: IceQty_assessment				
Label (Layout)	DataType(Dims)	long_name	units	description
phony_dm_1	None(1)	standard_name		
CONTIGUOUS	None	None	None	None (Source: None)
_NetCDFDimid	(Attribute)	4		
qa_granule_bal_season	INTEGER(1)	None	None	None (Source: None)
CONTIGUOUS	-2147483647	None	None	None (Source: None)
_NetCDFDimid	(Attribute)	4		

Label (Source)	DataType (Units)	long_name (Short Name)	units	description
ss_gratic_base_lat CONTIGUOUS	(INTEGER1) CONTIGUOUS	None	None	None (Source: None)
_NetcdfDimid	(Attribute)	4		
Group: rda_rsta				
Label (Source)	DataType (Units)	long_name (Short Name)	units	description
N_data CHUNKED	(INTEGER1) INVALID_R4B	N_data	counts	Number of data values solved for (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
N_data CHUNKED	(INTEGER1) INVALID_R4B	N_data	counts	Number of data used in fit (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_base CHUNKED	(FLOAT1) INVALID_R4B	RMS_base	meters	root mean of squared, scaled base values (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_dz0d2 CHUNKED	(FLOAT1) INVALID_R4B	RMS_dz0d2	meters ²	root mean square of the constant equation residuals for the second spatial derivative of z0 (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_dz0d2 CHUNKED	(FLOAT1) INVALID_R4B	RMS_dz0d2	meters years ²	root mean square of the constant equation residuals for the second temporal derivative of dz (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_dz0d2d2t CHUNKED	(FLOAT1) INVALID_R4B	RMS_dz0d2d2t	meters ² years ⁻¹	root mean square of the constant equation residuals for the second temporal derivative of dz0t (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_data CHUNKED	(FLOAT1) INVALID_R4B	RMS_data	meters	root mean of squared, scaled data misfits (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_zt CHUNKED	(FLOAT1) INVALID_R4B	sigma_zt	meters years ⁻²	weighting values for the constraint equations on the second temporal derivatives of the surface height (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_x0 CHUNKED	(FLOAT1) INVALID_R4B	sigma_x0	meters ⁻¹	weighting values for the constraint equations on the second spatial derivatives of the DEM (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_x0t CHUNKED	(FLOAT1) INVALID_R4B	sigma_x0t	meters ⁻¹ years ⁻¹	weighting values for the constraint equations on the second spatial derivatives of the height-change rate (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
x CHUNKED	(DOUBLE1) INVALID_R8B	x	meters	file-center x-coordinate, in projected coordinates (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	1		
datatype	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y CHUNKED	(DOUBLE1) INVALID_R8B	y	meters	file-center y-coordinate, in projected coordinates (Source: 4.1.2.1)
_NetcdfCoordinates	(Attribute)	0		
datatype	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		