ATL14 Product Data Dictionary

Date Generated : 2021-11-29T13:28:44

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: /		This data set (ATL14) contains seasonal gridded land ice elevation.		
Conventions	(Attribute)	CF-1.7		
GDAL_AREA_OR_POINT	(Attribute)	Area		
_NCProperties	(Attribute)	version=2,netcdf=4.7.4,hdf5=1.10.6		
asas_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 (besmith@uw.edu), Tyler Sutterley (tsutterl@uw.edu), Suzanne Dickinson (sdickins@uw.edu), Benjamin Jelley (benjamin.p.jelley@nasa.gov), Denis Felikson (denis.felikson@nasa.gov), Thomas E Neumann (thomas.neumann@nasa.gov), Helen Fricker (hafricker@ucsd.edu), Alex Gardner (alex.s.gardner@jpl.nasa.gov), Laurence Padman (padman@esr.org), Thorsten Markus (thorsten.markus@nasa.gov), Nathan Kurtz (nathan.t.kurtz@nasa.gov), Suneel Bhardwaj (suneel.bhardwaj@nasa.gov), David W Hancock III (david.w.hancock@nasa.gov), Jeffrey Lee (jeffrey.e.lee@nasa.gov)		
contributor_role	(Attribute)	Investigator, Investigator, Investigator, Investigator, Investigator, Algorithm Developer, Algorithm Developer, Algorithm Developer		
creator_name	(Attribute)	GSFC I-SIPS > ICESat-2 Science Investigator-led 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)	[85.20242531]		
geospatial_lat_min	(Attribute)	[70.58233402]		
geospatial_lat_units	(Attribute)	degrees_north		
geospatial_lon_max	(Attribute)	[-62.10272897]		
geospatial_lon_min	(Attribute)	[-127.0928373]		
geospatial_lon_units	(Attribute)	degrees_east		
granule_type	(Attribute)	ATL14		
hdfversion	(Attribute)	SET_BY_PGE		
history	(Attribute)	SET_BY_PGE		
identifier_product_doi	(Attribute)	doi:10.5067/ATLAS/ATL14.001		
identifier_product_doi_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 > GLACIERS/ICE 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		
netcdfversion	(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)	nsidc@nsidc.org		
publisher_name	(Attribute)	NSIDC DAAC > NASA National Snow and Ice Data Center Distributed Active Archive Center		
publisher_url	(Attribute)	http://nsidc.org/daac/		
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)	[70587713.40189457]		
time_coverage_end	(Attribute)	2021-06-23T10:51:09.697181Z		
time_coverage_start	(Attribute)	2019-03-29T11:09:16.295287Z		
time_type	(Attribute)	CCSDS UTC-A		
uuid	(Attribute)	1fce5534-34d6-4cfc-b44e-98cac78362e3		
vertical_datum	(Attribute)	WGS84		
Label (Layout)	Datatype(Dims) Fillvalue	long_name standard_name	units	description
Polar_Stereographic CONTIGUOUS	INTEGER_1([]) -127	None Polar_Stereographic	None	None (Source: None)
GeoTransform	(Attribute)	[-1.56e+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",6378137,298.257223563,AUTHORITY["EPSG","7030"]],AUTHORITY["EPSG","6326"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.0174532925199433,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],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG","3413"]]		
false_easting	(Attribute)	[0.]		
false_northing	(Attribute)	[0.]		
grid_mapping_name	(Attribute)	polar_stereographic		
inverse_flattening	(Attribute)	[298.25722356]		
latitude_of_projection_origin	(Attribute)	[90.]		
scale_factor_at_projection_origin	(Attribute)	[1.]		
semi_major_axis	(Attribute)	[6378.137]		
semi_minor_axis	(Attribute)	[6356.752]		
spatial_epsg	(Attribute)	3413		
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137,298.257223563,AUTHORITY["EPSG","7030"]],AUTHORITY["EPSG","6326"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.0174532925199433,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],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG","3413"]]		
standard_parallel	(Attribute)	[70.]		
straight_vertical_longitude_from_pole	(Attribute)	[-45.]		
cell_area CHUNKED	FLOAT(:,:) INVALID_R4B	DEM grid cell area None	meters^2	Area of each grid cell, accounting for the area distortion in the polar-stereographic projections (Source: 3.4)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
data_count CHUNKED	FLOAT(:,:) INVALID_R4B	DEM data count None	counts	Weighted number of data contributing to each node in the DEM. (Source: 5.2.4.4)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
h CHUNKED	FLOAT(:,:) INVALID_R4B	DEM height None	meters	DEM surface height, referenced to WGS84 (Source: 3.2)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
h_sigma CHUNKED	FLOAT(:,:) INVALID_R4B	DEM uncertainty None	meters	Uncertainty in the DEM surface height (Source: 4.1)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
ice_mask CHUNKED	INTEGER_1(:,:) INVALID_I1B	ice mask None	counts	Mask indicating 1: ice, 0: ocean or bare land (Source: 3.3.2)

_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	int8		
dimensions	(Attribute)	y, x		
misfit_rms CHUNKED	FLOAT(:,:) INVALID_R4B	DEM per-node data residual None	meters	Root-mean_square of the residuals associated with each DEM node (Source: 5.2.4.4)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
misfit_scaled_rms CHUNKED	FLOAT(:,:) INVALID_R4B	DEM per-node scaled data uncertainty None	counts	Root-mean_square of the error-scaled residuals associated with each DEM node (Source: 5.2.4.4)
_Netcdf4Coordinates	(Attribute)	[3 2]		
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
x CHUNKED	DOUBLE(:) INVALID_R8B	Polar stereographic x projection_x_coordinate	meters	x coordinate of the DEM cell centers, in projected coordinates (Source: 3.2)
_Netcdf4Dimid	(Attribute)	2		
datatype	(Attribute)	float64		
dimensions	(Attribute)	x		
y CHUNKED	DOUBLE(:) INVALID_R8B	Polar stereographic y projection_y_coordinate	meters	y coordinate of the DEM cell centers, in projected coordinates (Source: 3.2)
_Netcdf4Dimid	(Attribute)	3		
datatype	(Attribute)	float64		
dimensions	(Attribute)	y		
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: /METADATA/AcquisitionInformation		Describe the group		
Group: /METADATA/AcquisitionInformation/lidar		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 kHz, 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: /METADATA/AcquisitionInformation/lidarDocument		Describe the group		
edition	(Attribute)	Pre-Release		
publicationDate	(Attribute)	12/31/17		
title	(Attribute)	A document describing the ATLAS instrument will be provided by the ICESat-2 Project Science Office.		
Group: /METADATA/AcquisitionInformation/platform		Describe the group		
description	(Attribute)	Ice, Cloud, and land Elevation Satellite-2		
identifier	(Attribute)	ICESat-2		
type	(Attribute)	Spacecraft		
Group: /METADATA/AcquisitionInformation/platformDocument		Describe the group		
edition	(Attribute)	31-Dec-16		
publicationDate	(Attribute)	31-Dec-16		
title	(Attribute)	The Ice, Cloud, and land Elevation Satellite-2 (ICESat-2): Science requirements, concept, and implementation. Thorsten Markus, Tom Neumann, Anthony Martino, Waleed Abdalati, Kelly Brunt, Beata Csatho, Sinead Farrell, Helen Fricker, Alex Gardner, David Harding, Michael Jasinski, Ron Kwok, Lori Magruder, Dan Lubin, Scott Luthcke, James Morison, Ross Nelson, Amy Neuenschwander, Stephen Palm, Sorin Popescu, CK Shum, Bob E. Schutz, Benjamin Smith, Yuekui Yang, Jay Zwally. http://dx.doi.org/10.1016/j.rse.2016.12.029		
Group: /METADATA/DataQuality		Describe the group		
scope	(Attribute)	NOT_SET		
Group: /METADATA/DataQuality/CompletenessOmission		Describe the group		
evaluationMethodType	(Attribute)	directInternal		
measureDescription	(Attribute)	TBD		
nameOfMeasure	(Attribute)	TBD		
unitsOfMeasure	(Attribute)	TBD		
value	(Attribute)	NOT_SET		
Group: /METADATA/DataQuality/DomainConsistency		Describe the group		
evaluationMethodType	(Attribute)	directInternal		
measureDescription	(Attribute)	TBD		
nameOfMeasure	(Attribute)	TBD		
unitsOfMeasure	(Attribute)	TBD		
value	(Attribute)	NOT_SET		
Group: /METADATA/DatasetIdentification		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.		
characterSet	(Attribute)	utf8		
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-SIPS > ICESat-2 Science Investigator-led Processing System		
purpose	(Attribute)	The purpose of ATL14 is to provide an IceSat-2 gridded satellite summary of heights of land-based ice.		
shortName	(Attribute)	ATL14		
spatialRepresentationType	(Attribute)	along-track		
status	(Attribute)	onGoing		
topicCategory	(Attribute)	geoscientificInformation		
uuid	(Attribute)	48b04528-981a-48c4-a104-26cfb4de72ff		
Group: /METADATA/Extent		Describe the group		
eastBoundLongitude	(Attribute)	[-62.10272897]		
northBoundLatitude	(Attribute)	[85.20242531]		
rangeBeginningDateTime	(Attribute)	2019-03-29T11:09:16.295287Z		
rangeEndingDateTime	(Attribute)	2021-06-23T10:51:09.697181Z		
southBoundLatitude	(Attribute)	[70.58233402]		
westBoundLongitude	(Attribute)	[-127.0928373]		
Group: /METADATA/Lineage		Describe the group		
Group: /METADATA/Lineage/ANC19		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		
uuid	(Attribute)	SET_BY_PGE		
version	(Attribute)	SET_BY_PGE		
Group: /METADATA/Lineage/ANC36-14		Describe the group		
description	(Attribute)	ISO 19139 XML file containing Series-level metadata information.		
fileName	(Attribute)	DsESDTAIATL14.001.series.xml		
shortName	(Attribute)	ANC36-14		
uuid	(Attribute)	5BFCCB48-D68E-4897-92C6-389DE6A1C32B		
version	(Attribute)	001		
Group: /METADATA/Lineage/ANC38-14		Describe the group		
description	(Attribute)	ISO 19139 XML file containing DataSet-level metadata information.		
fileName	(Attribute)	DsESDTAIATL14.001.dataset.xml		
shortName	(Attribute)	ANC38-14		
uuid	(Attribute)	95BF65A5-F1E7-445E-9E94-ADD030917038		
version	(Attribute)	001		
Group: /METADATA/Lineage/ATL11		Describe the group		
description	(Attribute)	ATLAS/L3B Land Ice Height		

end_cycle	(Attribute)	SET_BY_PGE		
end_geoseg	(Attribute)	SET_BY_PGE		
end_orbit	(Attribute)	SET_BY_PGE		
end_region	(Attribute)	SET_BY_PGE		
end_rgt	(Attribute)	SET_BY_PGE		
fileName	(Attribute)	SET_BY_PGE		
shortName	(Attribute)	SET_BY_PGE		
start_cycle	(Attribute)	SET_BY_PGE		
start_geoseg	(Attribute)	SET_BY_PGE		
start_orbit	(Attribute)	SET_BY_PGE		
start_region	(Attribute)	SET_BY_PGE		
start_rgt	(Attribute)	SET_BY_PGE		
uuid	(Attribute)	SET_BY_PGE		
version	(Attribute)	SET_BY_PGE		
Group: /METADATA/Lineage/Control		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_PGE		
shortName	(Attribute)	SET_BY_PGE		
version	(Attribute)	SET_BY_PGE		
Group: /METADATA/ProcessStep		Describe the group		
Group: /METADATA/ProcessStep/Browse		Describe the group		
identifier	(Attribute)	SET_BY_PGE		
processDescription	(Attribute)	Browse processing is performed for each granule SIPS produces. 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)	SET_BY_PGE		
softwareDate	(Attribute)	SET_BY_PGE		
softwareTitle	(Attribute)	SET_BY_PGE		
softwareVersion	(Attribute)	SET_BY_PGE		
stepDateTime	(Attribute)	SET_BY_PGE		
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 SIPS. During PGE 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 textual representations as attributes attached to the /METADATA group.		
runTimeParameters	(Attribute)	ATL14_CN_0311_100m_001_01.cfl		
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/PGE		Describe the group		
ATBDDate	(Attribute)	12/04/2019		
ATBDTitle	(Attribute)	Algorithm Theoretical Basis Document (ATBD) For Sea Ice Products		
ATBDVersion	(Attribute)	N/A		
documentDate	(Attribute)	Feb 2020		
documentation	(Attribute)	ATLAS Science Algorithm Software Design Description (SDD) - Volume 14 (atlas_t3b_ls)		
identifier	(Attribute)	SET_BY_PGE		
processDescription	(Attribute)	Computes estimates of daily and monthly average of freeboard heights.		
runTimeParameters	(Attribute)	SET_BY_PGE		
softwareDate	(Attribute)	SET_BY_PGE		
softwareTitle	(Attribute)	SET_BY_PGE		
softwareVersion	(Attribute)	SET_BY_PGE		
stepDateTime	(Attribute)	SET_BY_PGE		
Group: /METADATA/ProcessStep/QA		Describe the group		
identifier	(Attribute)	atl14_qa_util		
processDescription	(Attribute)	QA processing is performed by an external utility on each granule produced by SIPS. 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 data of this report are identified within the QADatasetIdentification metadata		
runTimeParameters	(Attribute)	ATL14_CN_0311_100m_001_01.cfl		
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/ProductSpecificationDocument		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-SIPS-SPEC-4268 - ATLAS Science Algorithm Standard Data Product (SDP) Volume 13 (ATL14). Revision -.		
Group: /METADATA/QADatasetIdentification		Describe the group		
abstract	(Attribute)	An ASCII product that contains statistical information on data product results. These statistics enable data producers 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.nc.qa		
Group: /METADATA/SeriesIdentification		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.		
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_DOI	(Attribute)	doi:10.5067/ATLAS/ATL14.001		
language	(Attribute)	eng		
longName	(Attribute)	ATLAS/ICESat-2 L3B Land Ice Height		
maintenanceAndUpdateFrequency	(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)	2021-06-07		
shortName	(Attribute)	ATL14		
status	(Attribute)	onGoing		
topicCategory	(Attribute)	geoscientificInformation		
Group: /orbit_info				
Label (Layout)	Datatype(Dims) Fillvalue	long_name standard_name	units	description
bounding_polygon_dim1 CONTIGUOUS	INTEGER(4) -2147483647	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	5		
bounding_polygon_lat1 CONTIGUOUS	FLOAT(4) 9.9692099683868690e+36	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	5		
bounding_polygon_lon1 CONTIGUOUS	FLOAT(4) 9.9692099683868690e+36	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	5		
Group: /quality_assessment				
Label (Layout)	Datatype(Dims) Fillvalue	long_name standard_name	units	description
phony_dim_1 CONTIGUOUS	None(1)	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	4		
qa_granule_fail_reason CONTIGUOUS	INTEGER(1) -2147483647	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	4		

qa_granule_pass_fail CONTIGUOUS	INTEGER(1) -2147483647	None None	None	None (Source: None)
_Netcdf4Dimid	(Attribute)	4		
Group: /tile_stats				
Label (Layout)	Datatype(Dims) Fillvalue	long_name standard_name	units	description
N_bias CHUNKED	INTEGER(:,:) INVALID_I4B	N_bias None	counts	number of bias values solved for (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	int32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
N_data CHUNKED	INTEGER(:,:) INVALID_I4B	N_data None	counts	number of data used in fit (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	int32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_bias CHUNKED	FLOAT(:,:) INVALID_R4B	RMS_bias None	meters	root mean of squared, scaled bias values (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_d2z0dx2 CHUNKED	FLOAT(:,:) INVALID_R4B	RMS_d2z0d1x2 None	meters^-1	root mean square of the constraint equation residuals for the second spatial derivative of z0 (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_d2zdt2 CHUNKED	FLOAT(:,:) INVALID_R4B	RMS_d2zdt2 None	meters years^2	root mean square of the constraint equation residuals for the second temporal derivative of dz (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_d2zdx2dt CHUNKED	FLOAT(:,:) INVALID_R4B	RMS_d2zdx2dt None	meters^-1 years^-1	root mean square of the constraint equation residuals for the second temporal derivative of dz/dt (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
RMS_data CHUNKED	FLOAT(:,:) INVALID_R4B	RMS_data None	meters	root mean of squared, scaled data misfits (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_tt CHUNKED	FLOAT(:,:) INVALID_R4B	sigma_tt None	meters years^-2	weighting values for the constraint equations on the second temporal derivatives of the surface height (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_xx0 CHUNKED	FLOAT(:,:) INVALID_R4B	sigma_xx0 None	meters^-1	weighting values for the constraint equations on the second spatial derivatives of the DEM (Source: 4.1.2.1)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_xxt CHUNKED	FLOAT(:,:) INVALID_R4B	sigma_xxt None	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)
_Netcdf4Coordinates	(Attribute)	[0 1]		
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
x CHUNKED	DOUBLE(:) INVALID_R8B	x None	meters	tile-center x-coordinate, in projected coordinates (Source: 4.1.2.1)
_Netcdf4Dimid	(Attribute)	1		
datatype	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y CHUNKED	DOUBLE(:) INVALID_R8B	y None	meters	tile-center y-coordinate, in projected coordinates (Source: 4.1.2.1)
_Netcdf4Dimid	(Attribute)	0		
datatype	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		