

spatialRepresentationType	(Attribute)	along-track
status	(Attribute)	onGoing
topicCategory	(Attribute)	geoscientificInformation
uid	(Attribute)	21ae060-d873-4c2e-83ff-05c09899
Group: IMETADATAExtent Describe the group		
eastBoundLongitude	(Attribute)	143.89697371
northBoundLatitude	(Attribute)	84.71671866
rangeBeginningDateTime	(Attribute)	2018-03-28T11:09:16.295287Z
rangeEndingDateTime	(Attribute)	2021-06-23T10:59:59.697181Z
southBoundLatitude	(Attribute)	71.09020548
westBoundLongitude	(Attribute)	-125.27242145
Group: IMETADATAImage Describe the group		
Group: IMETADATAImage/ANC19 Describe the group		
description	(Attribute)	TAI to UTC leapsecond file retrieved from ftp://maia.usno.navy.mil/ser7/ta1-utc.dat
fileName	(Attribute)	SET_BY_POE
productName	(Attribute)	SET_BY_POE
uid	(Attribute)	SET_BY_POE
version	(Attribute)	SET_BY_POE
Group: IMETADATAImage/ANC36-15 Describe the group		
description	(Attribute)	ISO 19139 XML file containing Series-level metadata information.
fileName	(Attribute)	DuESDTAATL15.001.series.xml
productName	(Attribute)	ANC36-15
uid	(Attribute)	5BFCC84B-D6BE-4897-62C8-38C0E8A1C32B
version	(Attribute)	001
Group: IMETADATAImage/ANC38-15 Describe the group		
description	(Attribute)	ISO 19139 XML file containing DataSet-level metadata information.
fileName	(Attribute)	DuESDTAATL15.001.dataset.xml
productName	(Attribute)	ANC38-15
uid	(Attribute)	95F6A8-F1E7-445E-9E94-ADC030917038
version	(Attribute)	001
Group: IMETADATAImage/ATL11 Describe the group		
description	(Attribute)	ATLAS15B Land Ice Height
end_cycle	(Attribute)	SET_BY_POE
end_geoseg	(Attribute)	SET_BY_POE
end_grid	(Attribute)	SET_BY_POE
end_region	(Attribute)	SET_BY_POE
end_rgt	(Attribute)	SET_BY_POE
fileName	(Attribute)	SET_BY_POE
productName	(Attribute)	SET_BY_POE
start_cycle	(Attribute)	SET_BY_POE
start_geosseg	(Attribute)	SET_BY_POE
start_grid	(Attribute)	SET_BY_POE
start_region	(Attribute)	SET_BY_POE
start_rgt	(Attribute)	SET_BY_POE
uid	(Attribute)	SET_BY_POE
version	(Attribute)	SET_BY_POE
Group: IMETADATAImage/Control Describe the group		
description	(Attribute)	Text-based keyword/invoke 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
productName	(Attribute)	SET_BY_POE
version	(Attribute)	SET_BY_POE
Group: IMETADATAProcessStep Describe the group		
Group: IMETADATAProcessStep/Browse Describe the group		
identifier	(Attribute)	SET_BY_POE
processDescription	(Attribute)	Browse processing is performed for each granule SIPS 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)	SET_BY_POE
softwareDate	(Attribute)	SET_BY_POE
softwareTitle	(Attribute)	SET_BY_POE
softwareVersion	(Attribute)	SET_BY_POE
stopDateTime	(Attribute)	SET_BY_POE
Group: IMETADATAProcessStep/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 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)	ATL15_CN_0311_40km_001_01.cd
softwareDate	(Attribute)	Nov 18 2021
softwareTitle	(Attribute)	Creates ATLAS XML metadata files
softwareVersion	(Attribute)	Version 5.0
stopDateTime	(Attribute)	2021-11-29T13:43:38.000000Z
Group: IMETADATAProcessStep/POE Describe the group		
ATBDTitle	(Attribute)	ATBD2019
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_ldb_14)
identifier	(Attribute)	SET_BY_POE
processDescription	(Attribute)	Computes seasonal, annual, biennial land ice elevation change.
runTimeParameters	(Attribute)	SET_BY_POE
softwareDate	(Attribute)	SET_BY_POE
softwareTitle	(Attribute)	SET_BY_POE
softwareVersion	(Attribute)	SET_BY_POE
stopDateTime	(Attribute)	SET_BY_POE
Group: IMETADATAProcessStep/QA Describe the group		
identifier	(Attribute)	at15_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 date of this report are identified within the QADatasetIdentification metadata
runTimeParameters	(Attribute)	ATL15_CN_0311_40km_001_01.cd
softwareDate	(Attribute)	Nov 23 2021
softwareTitle	(Attribute)	ATL15 QA Utility
softwareVersion	(Attribute)	Version 1.0
stopDateTime	(Attribute)	2021-11-29T13:43:38.000000Z
Group: IMETADATAProductSpecification/Document Describe the group		
shortName	(Attribute)	ATL15_SDP
characterSet	(Attribute)	utf8
edition	(Attribute)	v1.0
language	(Attribute)	eng
publicationDate	(Attribute)	Feb 2020
title	(Attribute)	ICESat-2 SIPS SPEC-4269 - ATLAS Science Algorithm Standard Data Product (SDP) Volume 14 (ATL15). Revision -.
Group: IMETADATAQADatasetIdentification 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)	2021-11-29T13:43:38.000000Z
fileName	(Attribute)	ATL15_CN_0311_40km_001_01.nc.qa
Group: IMETADATASeriesIdentification Describe the group		
versionID	(Attribute)	SET_BY_POE
abstract	(Attribute)	The ICESat-2 ATL15 standard data product reports a land ice elevation change as compared to an ice sheet digital elevation model (DEM).
characterSet	(Attribute)	utf8
credit	(Attribute)	The software that generates the ATL15 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_DDI	(Attribute)	doi:10.5067/ATLASATL15.001		
language	(Attribute)	enq		
longName	(Attribute)	ATLASICE16x2 1-3B Seasonal, Annual, and Biennial Land Ice Height Change		
maintenanceAndUpdateFrequency	(Attribute)	asNeeded		
maintenanceDate	(Attribute)	BET_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 ATL15 is to provide an IceSat-2 gridded satellite summary of height changes of land-based ice		
resourceProviderOrganizationName	(Attribute)	National Aeronautics and Space Administration (NASA)		
revisionDate	(Attribute)	2021-06-07		
shortName	(Attribute)	ATL15		
status	(Attribute)	archiving		
topicCategory	(Attribute)	geospecificInformation		
Group: delta_h				
description	(Attribute)	delta_h group includes variables describing height differences between the model surface at any time and the DEM surface at a resolution of 40 km.		
Label	(Attribute)	long_name	units	description
Label	(Attribute)	standard_name		
Polar_Stereographic	(Attribute)	None	None	None (Source: None)
CONTIGUOUS	(Attribute)	None	None	None (Source: None)
GeoTransform	(Attribute)	[-1520000. 40000. 0. -520000. 0. -40000.]		
crs_wkt	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,257322366.3,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"63267"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"56001"],UNITS["degree"],0.0174532925199432,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"],AUTHORITY["EPSG":"56001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG":"34137"]]		
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_srs	(Attribute)	3413		
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,257322366.3,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"63267"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"56001"],UNITS["degree"],0.0174532925199432,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"],AUTHORITY["EPSG":"56001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG":"34137"]]		
standard_parallel	(Attribute)	[70.]		
straight_vertical_longitude_from_pole	(Attribute)	[45]		
cell_area_CHUNKED	(Attribute)	INVALID_R4B	meters^2	ice-covered area at 40 km resolution
NetCDFCoordinates	(Attribute)	[3 2]		ice-covered area of each 40x40 km grid cell, accounting for the area distort in the polar-stereographic projections (Source: ATBD section 3.4)
NetCDFDim0	(Attribute)	3		
dataType	(Attribute)	float32		
dimensions	(Attribute)	y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
delta_h_CHUNKED	(Attribute)	INVALID_R4B	meters	40x40 km average height change relative to the datum (Jan 1, 40x40) surface (Source: ATBD section 3.4)
NetCDFCoordinates	(Attribute)	[4 3 2]		
NetCDFDim0	(Attribute)	4		
dataType	(Attribute)	float32		
dimensions	(Attribute)	time,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
delta_h_sigma_CHUNKED	(Attribute)	INVALID_R4B	meters	uncertainty in the 40x40 km average height change relative to the datum (Jan 1, 40x40) surface (Source: ATBD section 3.4)
NetCDFCoordinates	(Attribute)	[4 3 2]		
NetCDFDim0	(Attribute)	4		
dataType	(Attribute)	float32		
dimensions	(Attribute)	time,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
time_CHUNKED	(Attribute)	INVALID_R8B	days since 2018-01-01	Time for each node. In days since 2018-01-01: 00:00:00 UTC (Source: ATBD section 4.2)
NetCDFDim0	(Attribute)	4		
dataType	(Attribute)	float64		
dimensions	(Attribute)	time		
x_CHUNKED	(Attribute)	INVALID_R8B	meters	x coordinate of the 40-km cell centers. In projected coordinates (Source: ATBD section 3.2)
NetCDFDim0	(Attribute)	2		
dataType	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y_CHUNKED	(Attribute)	INVALID_R8B	meters	y coordinate of the 40-km cell centers. In projected coordinates (Source: ATBD section 3.2)
NetCDFDim0	(Attribute)	3		
dataType	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		
Group: dhdh_lag1				
description	(Attribute)	dhdh_lag1 group includes variables describing height difference rates, at a resolution of 40 km, between subsequent quarterly height-difference surfaces.		
Label	(Attribute)	long_name	units	description
Label	(Attribute)	standard_name		
Polar_Stereographic	(Attribute)	None	None	None (Source: None)
CONTIGUOUS	(Attribute)	None	None	None (Source: None)
GeoTransform	(Attribute)	[-1520000. 40000. 0. -520000. 0. -40000.]		
crs_wkt	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,257322366.3,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"63267"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"56001"],UNITS["degree"],0.0174532925199432,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"],AUTHORITY["EPSG":"56001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG":"34137"]]		
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_srs	(Attribute)	3413		
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,257322366.3,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"63267"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"56001"],UNITS["degree"],0.0174532925199432,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"],AUTHORITY["EPSG":"56001"],AXIS["X",EAST],AXIS["Y",NORTH],AUTHORITY["EPSG":"34137"]]		
standard_parallel	(Attribute)	[70.]		
straight_vertical_longitude_from_pole	(Attribute)	[45]		
dhdh_CHUNKED	(Attribute)	INVALID_R4B	meters year^-1	40x40 km average quarterly height change rate (Source: ATBD section 3.4)
NetCDFCoordinates	(Attribute)	[7 6 5]		
NetCDFDim0	(Attribute)	7		
dataType	(Attribute)	float32		
dimensions	(Attribute)	time_lag1,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
dhdh_sigma_CHUNKED	(Attribute)	INVALID_R4B	meters year^-1	uncertainty in the 40x40 km average quarterly height change rate (Source: ATBD section 3.4)
NetCDFCoordinates	(Attribute)	[7 6 5]		
NetCDFDim0	(Attribute)	7		
dataType	(Attribute)	float32		
dimensions	(Attribute)	time_lag1,y,x		

grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
time	CHUNKED	DOUBLE() INVALID_RBB	time since 2018-01-01	Time for the midpoint of each quarterly height-change rate. In days since 2018-01-01T00:00:00 UTC (Source: ATBD section 4.2)
_NetCDFDim0	(Attribute)	7		
data_type	(Attribute)	float64		
dimensions	(Attribute)	time_lag1		
time_lag1	CONTIGUOUS	None(1)	None	None (Source: None)
_NetCDFDim0	(Attribute)	7		
x	CHUNKED	DOUBLE() INVALID_RBB	polar stereographic x at 40 km projection_x_coordinate	x coordinate of the 40-km cell centers, in projected coordinates (Source: ATBD section 3.2)
_NetCDFDim0	(Attribute)	5		
data_type	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y	CHUNKED	DOUBLE() INVALID_RBB	polar stereographic y at 40 km projection_y_coordinate	y coordinate of the 40-km cell centers, in projected coordinates (Source: ATBD section 3.2)
_NetCDFDim0	(Attribute)	5		
data_type	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		
Group: nhdt_lag4				
description	(Attribute)	nhdt_lag4 group includes variables describing annual height-change-rate estimates, at a resolution of 40 km.		
Label (Layout)	(Attribute)	long_name standard_name	units	description
Polar_Stereographic CONTIGUOUS	(Attribute)	INTEGER_1(1) 127	None	None (Source: None)
GeoTransform	(Attribute)	[1520000. 40000. 0. -520000. 0. -40000.]		
crs_wkt	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222868,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"70307"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"70307"],UNIT["degree",0.01753223751464343,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":"31473"]]		
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)	[6378137.]		
semi_minor_axis	(Attribute)	[6356752.]		
spatial_offset	(Attribute)	[3413]		
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222868,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"70307"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"70307"],UNIT["degree",0.01753223751464343,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":"31473"]]		
standard_parallel	(Attribute)	[70.]		
straight_vertical_longitude_from_pole	(Attribute)	[45.]		
time	CHUNKED	DOUBLE() INVALID_RBB	annual height-change rate at 40 km	40x40 km average annual height change rate (Source: ATBD section 3.4)
_NetCDFCoordinates	(Attribute)	[10 9 8]		
_NetCDFDim0	(Attribute)	10		
data_type	(Attribute)	float32		
dimensions	(Attribute)	time_lag4,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
time	CHUNKED	DOUBLE() INVALID_RBB	annual height-change rate uncertainty at 40 km	Uncertainty in the 40x40 km average annual height change rate (Source: ATBD section 3.4)
_NetCDFCoordinates	(Attribute)	[10 9 8]		
_NetCDFDim0	(Attribute)	10		
data_type	(Attribute)	float32		
dimensions	(Attribute)	time_lag4,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
time	CHUNKED	DOUBLE() INVALID_RBB	time since 2018-01-01	Time for the midpoint of each annual height-change rate. In days since 2018-01-01T00:00:00 UTC (Source: ATBD section 4.2)
_NetCDFDim0	(Attribute)	10		
data_type	(Attribute)	float64		
dimensions	(Attribute)	time_lag4		
time_lag4	CONTIGUOUS	None(8)	None	None (Source: None)
_NetCDFDim0	(Attribute)	10		
x	CHUNKED	DOUBLE() INVALID_RBB	polar stereographic x at 40 km projection_x_coordinate	x coordinate of the 40-km cell centers, in projected coordinates (Source: ATBD section 3.2)
_NetCDFDim0	(Attribute)	8		
data_type	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y	CHUNKED	DOUBLE() INVALID_RBB	polar stereographic y at 40 km projection_y_coordinate	y coordinate of the 40-km cell centers, in projected coordinates (Source: ATBD section 3.2)
_NetCDFDim0	(Attribute)	8		
data_type	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		
Group: nhdt_lag1				
description	(Attribute)	nhdt_lag1 group includes variables describing biennial height-change-rate estimates, at a resolution of 40 km.		
Label (Layout)	(Attribute)	long_name standard_name	units	description
Polar_Stereographic CONTIGUOUS	(Attribute)	INTEGER_1(1) 127	None	None (Source: None)
GeoTransform	(Attribute)	[1520000. 40000. 0. -520000. 0. -40000.]		
crs_wkt	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222868,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"70307"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"70307"],UNIT["degree",0.01753223751464343,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":"31473"]]		
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)	[6378137.]		
semi_minor_axis	(Attribute)	[6356752.]		
spatial_offset	(Attribute)	[3413]		
spatial_ref	(Attribute)	PROJCS["WGS 84 / NSIDC Sea Ice Polar Stereographic North",GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137.298,297222868,AUTHORITY["EPSG":"70307"],AUTHORITY["EPSG":"70307"],PRIMEM["Greenwich"],AUTHORITY["EPSG":"70307"],UNIT["degree",0.01753223751464343,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":"31473"]]		
standard_parallel	(Attribute)	[70.]		
straight_vertical_longitude_from_pole	(Attribute)	[45.]		
time	CHUNKED	DOUBLE() INVALID_RBB	biennial height-change rate at 40 km	40x40 km average biennial height change rate (Source: ATBD section 3.4)
_NetCDFCoordinates	(Attribute)	[13 12 11]		
_NetCDFDim0	(Attribute)	13		
data_type	(Attribute)	float32		
dimensions	(Attribute)	time_lag1,y,x		
grid_mapping	(Attribute)	Polar_Stereographic		
least_significant_digit	(Attribute)	4		
time	CHUNKED	DOUBLE() INVALID_RBB	biennial height-change rate uncertainty at 40 km	Uncertainty in the 40x40 km average biennial height change rate (Source: ATBD section 3.4)
_NetCDFCoordinates	(Attribute)	[13 12 11]		
_NetCDFDim0	(Attribute)	13		
data_type	(Attribute)	float32		

sigma_t	FLAATL:1	alpha_t		
CHUNKED	INVALID_R8B	None	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		
catstype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_x0	FLAATL:1	alpha_x0		
CHUNKED	INVALID_R8B	None	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		
catstype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
sigma_x0t	FLAATL:1	alpha_x0t		
CHUNKED	INVALID_R8B	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)
_NetcdfCoordinates	(Attribute)	[0 1]		
_NetcdfDimid	(Attribute)	0		
catstype	(Attribute)	float32		
dimensions	(Attribute)	y, x		
grid_mapping	(Attribute)	Polar_Stereographic		
x	DOUBLE	x	meters	file-center coordinates, in projected coordinates (Source: 4.1.2.1)
CHUNKED	INVALID_R8B	None		
_NetcdfDimid	(Attribute)	1		
catstype	(Attribute)	float64		
dimensions	(Attribute)	x		
grid_mapping	(Attribute)	Polar_Stereographic		
y	DOUBLE	y	meters	file-center coordinates, in projected coordinates (Source: 4.1.2.1)
CHUNKED	INVALID_R8B	None		
_NetcdfDimid	(Attribute)	0		
catstype	(Attribute)	float64		
dimensions	(Attribute)	y		
grid_mapping	(Attribute)	Polar_Stereographic		