

ICESat-2 Quick Looks



Advanced Topographic Laser Altimeter System (ATLAS) measures the travel times of laser pulses to calculate the distance between the spacecraft and Earth's surface.

- Operating since 1 Oct 2018
- 19 standard mission data products
- Data available ~45 days after observation

Quick Looks provide expedited data

- Available ~72 hours after observation
- Remain available until the final, standard data is available
- Based on less precise satellite position information
- Larger geolocation uncertainties (up to 100 m) and additional uncertainties in the retrieval of surface height

Quick Look Products

- Sea ice elevation (ATL07QL)
- Land and vegetation height (ATL08QL)
- Atmospheric backscatter and layer characteristics (ATL09QL)
- Sea ice freeboard (ATL10QL)
- Inland surface water elevation (ATL13QL)



ICESat-2 Quick Looks

Access is available from the NSIDC DAAC

nsidc@nsidc.org

<https://nsidc.org/data/icesat-2/data-sets>

List of all ICESat-2 data products

ID	Title	Spatial Coverage	Temporal Coverage	Spatial Resolution	Temporal Resolution	Parameter(s)
ATL02	ATLAS/ICESat-2 L1B Converted Telemetry Data, Version 5	GLOBAL	2018/10/13 to present	Not applicable	Not applicable	Engineering Telemetry Ancillary Data
ATL03	ATLAS/ICESat-2 L2A Global Geolocated Photon Data, Version 5	GLOBAL	2018/10/13 to present	70 cm	91 day	TERRAIN ELEVATION
ATL04	ATLAS/ICESat-2 L2A Normalized Relative Backscatter Profiles, Version 5	GLOBAL	2018/10/13 to present	280 m	91 day	LIDAR BACKSCATTER
ATL06	ATLAS/ICESat-2 L3A Land Ice Height, Version 5	GLOBAL	2018/10/14 to present	20 m	91 day	GLACIER ELEVATION/ICE SHEET ELEVATION
ATL07	ATLAS/ICESat-2 L3A Sea Ice Height, Version 5	SOUTHERN HEMISPHERE NORTHERN HEMISPHERE	2018/10/14 to present	Varies	91 day	SEA ICE ELEVATION
ATL07QL	ATLAS/ICESat-2 L3A Sea Ice Height Quick Look, Version 5	SOUTHERN HEMISPHERE NORTHERN HEMISPHERE	2021/11/28 to present	Varies	91 day	SEA ICE ELEVATION

Data product page

Data Set ID: ATL07QL
ATLAS/ICESat-2 L3A Sea Ice Height Quick Look, Version 5

ATL07QL is the quick look version of ATL07. Once final ATL07 files are available the corresponding ATL07QL files will be removed. ATL07 contains along-track heights for sea ice and open water leads (at varying length scales) relative to the WGS84 ellipsoid (ITRF2014 reference frame) after adjustment for geoidal and tidal variations, and inverted barometer effects. Height statistics and apparent reflectance are also provided. The data were acquired by the Advanced Topographic Laser Altimeter System (ATLAS) instrument on board the Ice, Cloud and land Elevation Satellite-2 (ICESat-2) observatory.

This is the most recent version of these data.

Version Summary: [See more](#)

The screenshot shows the data product page interface with the following elements:

- Navigation tabs: Overview, **Download Data**, Citing These Data, User Guide, Technical References, Support.
- Buttons: Login to Earthdata, Other Access Options.
- Filter by date: From 11/28/2021 To 03/24/2022.
- Filter spatially by bounding box: W -180 S -90 E 180 N.
- Filter spatially by drawing a bounding box or polygon (with a globe image).
- File list table:

File Name	Size (M B)	Start Time	End Time
ATL07QL-02_20220320221150_13 541401_005_01.h5	4.8	2022-03-20 23:17:39	2022-03-20 23:28:27
ATL07QL-01_20220320221150_13 541401_005_01.h5	268.0	2022-03-20 22:29:28	2022-03-20 22:41:09
ATL07QL-02_20220320203733_13 531401_005_01.h5	3.9	2022-03-20 21:43:08	2022-03-20 21:54:41
ATL07QL-01_20220320203733_13 531401_005_01.h5	319.6	2022-03-20 20:57:27	2022-03-20 21:11:07
ATL07QL-02_20220320155441_13 501401_005_01.h5	28.7	2022-03-20 17:00:09	2022-03-20 17:10:46
ATL07QL-01_20220320155441_13 501401_005_01.h5	345.8	2022-03-20 16:12:53	

- Download data
- Access the user guide
- Subscribe to mailing
- Obtain data citation (DOI)
- Get support

