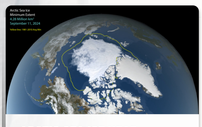
*Using ICESat-2 data to assess forest damage and recovery*

Launched on September 15, 2018, from the Vandenberg Air Force Base in Lompoc, California, the NASA Ice, Cloud, and land Elevation Satellite 2, or ICESat-2, carries a photon-counting laser altimeter that allows scientists to measure the elevation of ice sheets, glaciers, sea ice, tree canopy height, ocean height, and more - all in unprecedented 3-D detail. ICESat-2 helps scientists investigate why, and how much, our Earth is changing in a warming climate.

## NEWS

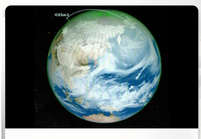


### ARCTIC SEA ICE NEAR HISTORIC LOW; ANTARCTIC ICE CONTINUES DECLINE

NASA article on annual sea ice minimum, likely the 7th-lowest in the satellite record. Read about sea ice minimum here.

### ROLLING WITH A SOLAR STORM: HOW ICESAT-2 GOT BACK ON TRACK

ICESat-2's Data repository, the National Snow and Ice Data Center (NSIDC), describes the solar storms that affected ICESat-2 and how the satellite got back on track. See how the solar storms affected ICESat-2 .



### ICESAT-2 RESUMES DATA COLLECTION AFTER SOLAR STORMS

NASA's ICESat-2 satellite returned to science mode on June 21 UTC, after solar storms in May caused its height-measuring instrument to go into a safe hold. Read why ICESat-2 had to go into a safe mode status.

See All News

## SPACE LASERS

ICESat-2's laser is split into six beams, to better measure Earth's surface. Find out more about space lasers here.

Read about space lasers

## MEET YOUR GUIDES

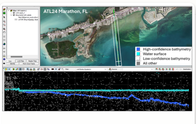
Hang out with Paige the Penguin and Pho the Photon in the FunZone! Learn all about the ICESat-2 mission through fun features, images, videos, demonstrations, and activities.

Check out the FunZone

## EVENTS

### Kennedy Center Earth to Space Festival NASA Activities for Kids: ICESat-2 Edition

Saturday, April 12, 2025

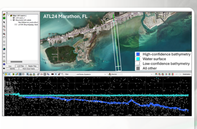


### Laser Altimetry Applications for a Changing World: Working with ICESat-2 Bathymetry Data

**For more Information and to register for this webinar, follow the link below:**

https://www.earthdata.nasa.gov/learn/webinars-and-tutorials/laser-altimetry-applicati...

Wednesday, April 9, 2025



### NASA ICESat-2 Mission Satellite-derived Bathymetry (SDB) Workshop

US Hydro 2025 , Wilmington Convention Center, Wilmington, NC

Monday, March 17, 2025

See All Events

## DID YOU KNOW?

**The ICESat-2 laser pulses 10,000 times a second; each pulse releases about 300 trillion photons. Only about a dozen photons hit Earth's surface and return to the satellite.**

NASA Official: Tom Neumann
Webmasters: 610 WebDev
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Website Design & Media: Collaborative Student Projects