

Since 1982, NOAA has recognized the University of Colorado's NSIDC as an adjunct member of the National Data Center system. Today, a *small team at NSIDC takes advantage of our position within a well-established polar science and data management institution to archive data and develop cryospheric products that serve NOAA mission goals.* We work to preserve past records through documenting and making digital copies of analog records, often in partnership with the NOAA Climate Database Modernization Program.

Arctic system science will increasingly rely on access to data in near real time and seamless access to existing data.

We work with operational services and developing observing networks to make data acquired through these systems more visible and accessible to our large existing user base, Networks like:

- Sustaining Arctic Observing Networks
- Arctic Observing Network
- U.S. Integrated Ocean Observing System

We seek ways to make today's snow and ice satellite data more informative for users who may not be snow and ice scientists.

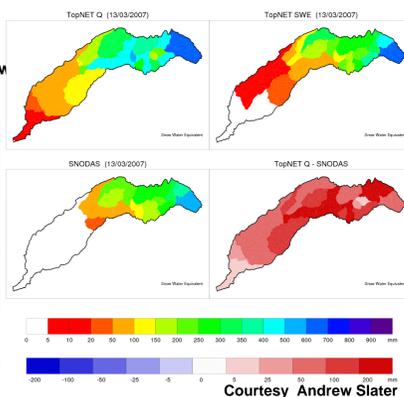
We are ready to contribute to the NOAA Climate Service with Climate Information Records and outreach products.

NOAA@NSIDC

- **Preserving the past**
- **Working with operational agencies**
- **Interpretive information**
- **Accessible, easy to use data products in a variety of formats**

Working with operational agencies to share data with researchers ...

Snow Data Assimilation System (SNODAS) from NOAA NWS NOHRSC is one of NSIDC's most heavily used data products. NSIDC scientist Andrew Slater does snow product validation work with SNODAS.



Preserving the past and sharing information with the Glacier Photograph Collection. The photographs tell a story.



Onelli Glacier, Argentina, from the NASA space shuttle, February 2002.

Tyndall Glacier, Chile, from the NASA space shuttle, June 2007.

Vicinity of Gentle Glacier, AK, US Navy aerial survey, August 1955.

Pedersen Glacier, photo by L. Pedersen, 1917.

Pedersen Glacier, photo by B. Molina, August 2005.

Reid mapped glaciers for USGS during an expedition to Glacier Bay

Sketch by Harry Reid, "America's first geophysist"

This photo of Muir Glacier, AK, was taken in 1892, two years after the sketch at left was made

Information products have 100s of thousands of users.

View NSIDC Data on Virtual Globes - one example is A Climate Change Tour of Cold Places

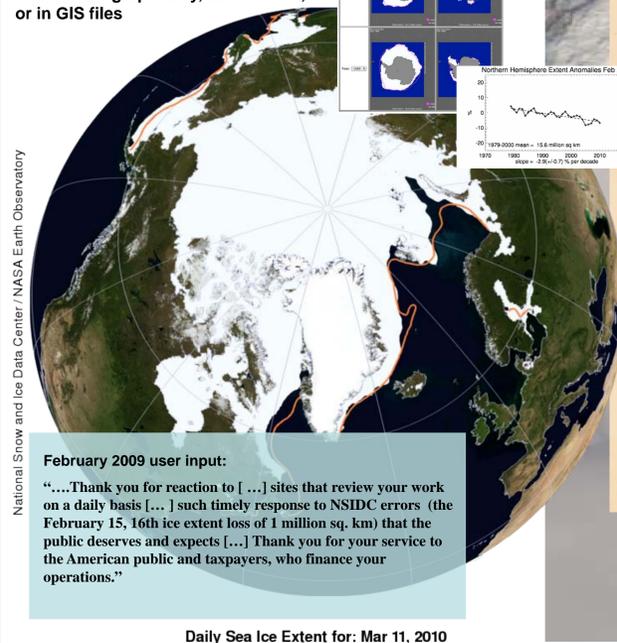
- ...a Google Earth movie that tells a K-12 audience about the role that snow and ice play in climate.
- Down-to-earth examples
- Interviews with NSIDC scientists
- Developed in collaboration with the CU School of Education



NSIDC scientist Julieanne Stroeve talks about her work

NSIDC scientist Ted Scambos reveals some of Antarctica's secrets

The Sea Ice Index is easy to use to see what is happening with sea ice...plot and browse, get information graphically, as numbers, or in GIS files



February 2009 user input:
"....Thank you for reaction to [...] sites that review your work on a daily basis [...] such timely response to NSIDC errors (the February 15, 16th ice extent loss of 1 million sq. km) that the public deserves and expects [...] Thank you for your service to the American public and taxpayers, who finance your operations."

Daily Sea Ice Extent for: Mar 11, 2010