



National Snow and Ice Data Center  
*Supporting Cryospheric Research Since 1976*



# ***SCICEX Data Management Effort at NSIDC – 2014 Update***

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# Outline

- Web Site Updates and Traffic
- Historical Data Update
- Current Data Flow Process
- Future Tasks
- What We Need

# SCICEX Website Updates

- Added 2011 data to the Ice Draft tab and 2011 and 2012 data to Bathymetry tab
- Removed SCAMP tab since there is not any useable data
- Interview with George Newton now on the history page



**SCICEX**  
Submarine Arctic Science Program

Overview  
Data Inventory  
History/Background  
Science Advisory Committee  
Inter-Agency Committee  
Publications  
Contact Us  
Photo Gallery

### SCICEX Data Inventory and Locations

[View Cruise Dates Table](#)

CTD Data (Sail Mounted)   CTD Data (Surface Cast)   XCTD Data   Nutrient Bottle Data   Sea Ice Draft Data   Bathymetry

#### Conductivity, Temperature, and Depth (CTD) Data (Sail Mounted)

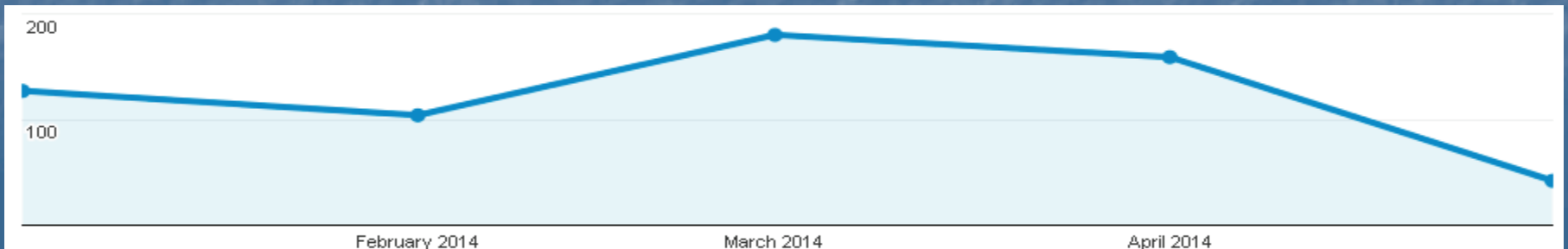
| SCICEX Cruise (Year & Submarine)                       | Location/Status   |
|--|---|
| 2012 (SAM)<br>USS Topeka                               | These data are currently being processed and evaluated for releasability. |
| 2011 (SAM)<br>USS Connecticut and<br>USS New Hampshire | These data are currently being processed and evaluated for releasability. |
| 2005 (SAM)<br>USS Salt Lake City                       | None available.   |
| 2003 (SAM)<br>USS Honolulu                             | None available.   |

# Web Site Traffic

- SCICEX views in 2013
  - 1832 total (down from ~2700 in 2012)
  - 1228 unique (down from ~2000 in 2012)



Page views for 2013

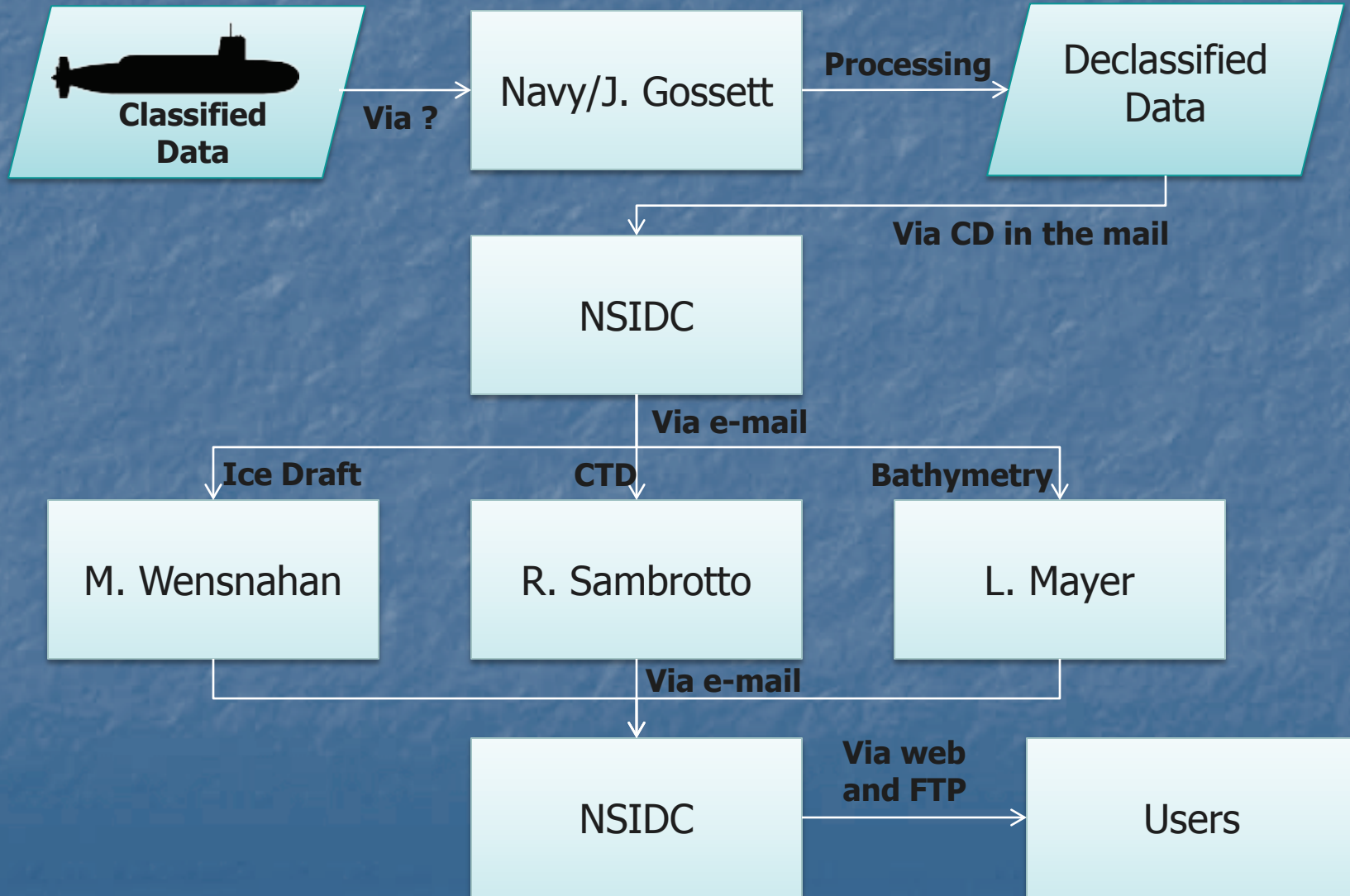


Page views so far for 2014

# Historical Data Update

- Bathymetry for 2001, 2003, and 2005 SAMs posted
- Downloaded all data from LDEO SCICEX site but still need to ingest it into NSIDC's archive.
- Working on processing 1999 SeaBird CTD data to see if it's viable.
- Nutrient bottle data for 1998, 1999, 2000, 2001, 2003, and 2005. Ray sent a request to T. Whitley in June but no word, yet.

# Current Data Flow Process



# Future Tasks

- Post 2012 ice draft data
- Post any 2014 data
- Post documentation on protocols and processing steps
- Distribute the data that is on the LDEO site via NSIDC's site

# Future Tasks

- Process 1999 Sail Mounted CTD SeaBird data files from IMS web site.
- Add navigation files to Data Inventory page
- Bathymetry data to be archived at NGDC (have corresponded with them about the 2011/2012 campaigns but have not sent them the data, yet).



# Helium Isotope Protocol

**Description:** Fill a copper tube with unfiltered water for the determination of the excess  $^3\text{He}$  isotope ratio and estimation of the water mass age in conjunction with the tritium measurement. Flow sample through copper tubes, which are crimped shut to provide a gas tight seal. Please collect 3 samples.

**Storage & Transport Requirements:** Room temperature

## Materials Needed:

- Copper tubes
- Tygon tubing
- Wrench
- Waste receptacle

**Estimated time per sample:** 10 min.

## Protocol:

- Connect the copper tube to the sample port with a length of tygon tubing. Connect a length of tygon tubing to the exit end of the copper tube to drain the water to an appropriate receptacle.
- Start the flow of water through the tubing and copper tube. Tap the tygon tubing to clear any bubbles that may be present.
- As water is flowing through the copper tube, tap the channel with a mallet or wrench to clear any bubbles that may be attached to the inside surface, allowing at least 500 cc of water to flush through the tube.
- With the water flowing, tighten the exit clamp to stop the flow of water. Then tighten the entrance clamp. Check the four bolts to insure they are all tight.



# What We Need from You

- 2014 data
- 2012 ice draft if viable
- Documentation on processing procedures
- Permission to post some white papers to the SCICEX site
- Feedback on the current data flow



# Thank You!

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