

Session Title: New datasets and other updates to the SOS library

Moderator: John McLaughlin

Note taker: Lexie Brown

Participants: Beth Russell, NOAA ESRL

General Notes:

- Questions:
 - Sanna Reponen: How is this dataset different from previous (real-time sea ice or Arctic sea ice dataset)?
 - Beth: Need to talk to Dan Pisut about that.
 - Is there any sort of description with datasets when they come out?
 - Beth: Two paragraphs come with each of them.
 - Can we get this dataset (sea ice) for ten years ago?
 - Beth: We do have a sea ice run from 1979, so you can use that.
 - PowerPoints can play on flat screen as well as projector?
 - Yes, as long as you have Windows on the system. Mostly used on flat screens. Not all are in 2007.
 - Matt Benjamin: Our installation required no permanent building and cost only \$3000 to install flat screens, and we will see that tomorrow.
 - Can you raise the sea level as well (“emptying the ocean” dataset)?
 - Beth: We can ask Dan Pisut if he can add that to this program, especially because our current sea level rise dataset is lower resolution.
 - What does that compare to (sea surface temperature anomaly)?
 - Anomaly is 1950 to 1980 average SST is the baseline. (Need to confirm with Dan – data from GIS data (Maurice Henderson))
 - Interest is high for this dataset. It will grow over time.
 - Also available in Celsius?
 - We can make it available.
 - Day/Night terminator datasets (created by Rick) – would be great to have winter solstice example, as well as real-time.

- Beth: Not sure we can do real-time, but we can ask for winter solstice so that we can compare to the July/summer solstice
- Volunteer (Brian Hughes at NOAA NESDIS) does an SOS show on how satellites work and we will write up an outline and make it available.
 - Beth: Send outlines or videos of shows to me and I will post it online for the network. We have 4-5 scripts from NOAA online currently.
- It would be good to have a brown surface track on this dataset (cloud slice dataset)
 - Maurice: Will add that to this dataset.
- How long is it? (NSSL movie about convective storms by summer intern)
 - Beth: About 7 minutes
- Maurice will be happy to share algorithm to find stars on map (“Star parties” dataset)
 - Doug Duncan: Some museums are dealing with “2012 hoax”. There is an SOS dataset that shows path of sun in the sky for the whole year. You will see that every December, the sun will be in center of galaxy and you can de-bunk the hoax. You could use this “star parties” dataset to show this, with sun data.
- Times are set to local? From one day? (Airplanes in the sky dataset)
 - Beth: Yes, times are local. Data is from one particular day in February 2007, all commercial flights
 - Would love to see something similar for shipping (data does exist in Google Map AIS data)

Recommendations to NOAA (Office of Education, Earth System Research Laboratory, National Visualization Laboratory):

- Add sea level rise to “emptying the ocean” dataset created by Dan Pisut, especially because current sea level rise dataset is lower resolution.
- Make sea surface temperature anomaly dataset available in Celsius
- Day/Night terminator dataset – would be great to have winter solstice example to compare
- Add brown surface tracks to cloud slice dataset from Maurice Henderson (NASA)
- A shipping dataset similar to the “Airplanes in the sky” dataset

Actions/Next Steps:

<i>Action/Next Step</i>	<i>Responsible Network Member/Institution</i>

Research Questions for Further Exploration: