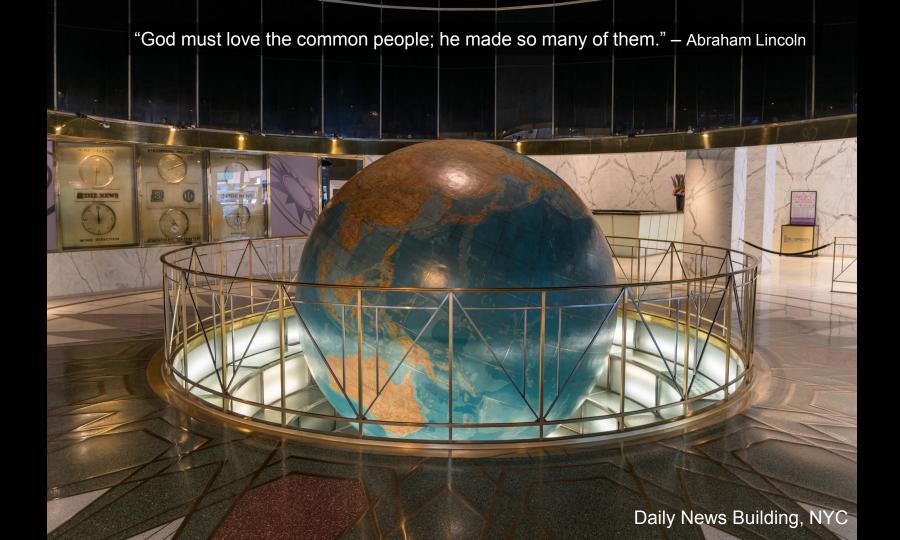


Updates from Boulder

NOAA Boulder SOS Team



NOAA's SOS and SOS Explorer Teams

Informatics, Visualization and Outreach Section

Jebb Stewart *- Section Lead

SOS Development Team

Keith Searight *- SOS System Dev Lead

Beth Russell *- SOS Operations Manager
Alex Kirst * - New - SOS Field Support and Dev
Ian McGinnis * - SOS Field Support and Dev
Hilary Peddicord * - SOS and SOSX Education Lead

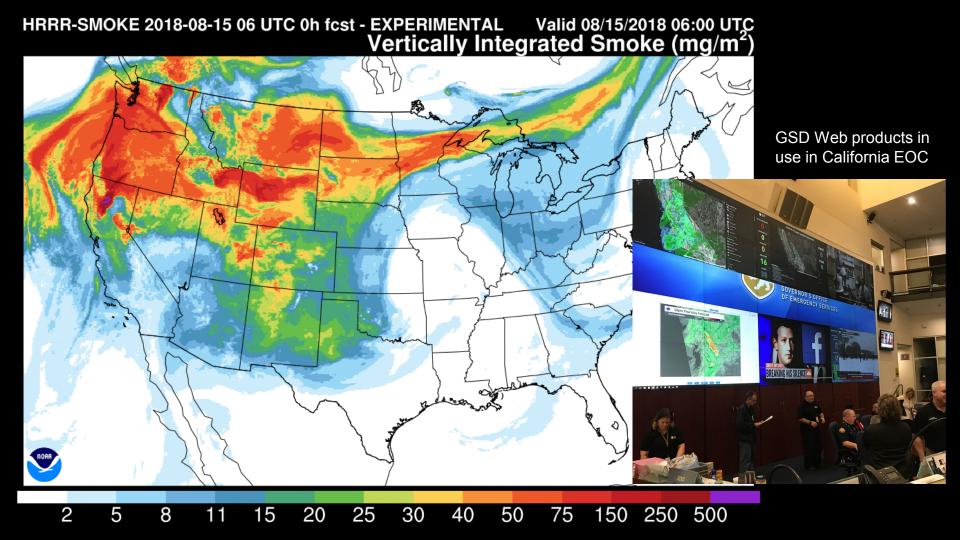
Shilpi Gupta * – SOS Dev and Lead Ipad Dev Evan Sheehan * – New – Web Dev and Support Tony Liao – Kiosk and Asian Support

SOS Explorer Development Team

Eric Hackathorn * – SOSX Dev Lead Jeff Smith – SOSX Dev Jonathan Joyce – SOSX Dev

Support Services

Vivian Lefevbre – IT Support Tanja Braunagel - Admin Angie Scheck - Budget



Feedback

Augmented Reality on the SOS Content Building for SOS SOS Explorer Mobile







New and Upcoming Installs

New Installs since last workshop (April 2017)

- 15 New Installations —
- Five Countries
 - Australia!
- 7 Completed by Distributors*

Upcoming Installs

- Orange Coast College
- Michigan State University
- Distributors busy at work around the globe!

Climate Planet, Aarhus, Denmark

Morristown-Beard School, Morristown, NJ

KSBB Biodiversity Museum, Trivandrum, Kerala, India*

National Center for Weather and Climate Prediction, MD

Raman Science Center, Nagpur, India*

The Regional Science Centre, Guwahati, Guwahati, India*

Liberty Science Center, Jersey City, NJ

Shrikrishna Science Centre, Patna, India*

MOD. at the University of South Australia, Adelaide, Australia

Second Institute of Oceanography, Hangzhou, PRC*

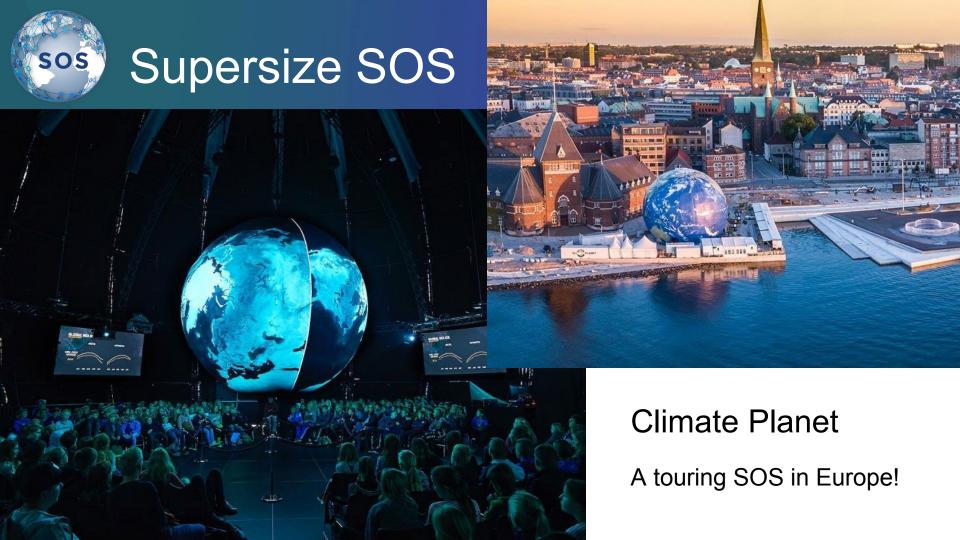
Marine Education Center, Ocean Springs, MS

Zhongdiantou Power Engineering Co., Ltd, Shanghai, PRC*

American Airlines C.R. Smith Museum*

Queensland Museum, Brisbane, Australia

Plantation Key School, Tavernier, FL

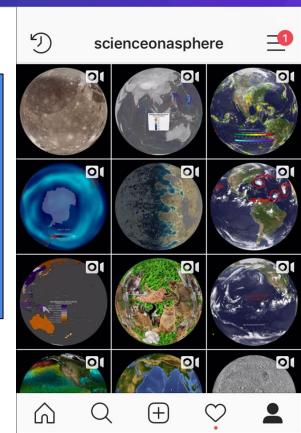




SOS in Social Media



Follow us on Instagram and Facebook for announcements about new and timely datasets!

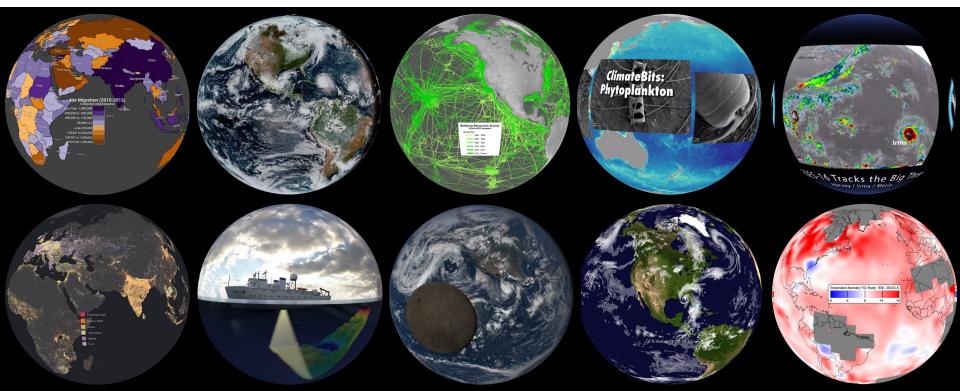




New Datasets

Check them out Thursday afternoon!

26 New Datasets since the April 2017 Workshop





Upcoming Dataset

- Collaboration between EcoArts Connections and NOAA SOS (Boulder)
- Grant through National Endowment for the Arts (NEA)
- Feb 2019: 5-min SOS film by artist Lars Jans, based on his work *Holoscenes*





Update from SOS Dev Team

What's new in Science On a Sphere®

- Overview in this presentation
- Live demos, details, and discussion in later sessions



App





SOS Product Suite: Feedback and Future Direction

Thurs @ 1:30pm in Arthur Stillwell Room

Join us and bring your wish list!





Newest Software Releases

Since Detroit Zoo Workshop in April 2017

Version	Date	Highlights
5.3	Feb. 2018	Spotlights, formatted labels, better security
5.3.1	Apr. 2018	Stability fixes for SOS display software
5.4	Nov. 2018	Moving PIPs, captions

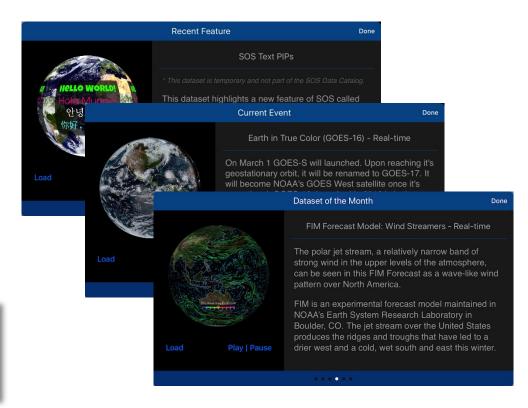


Spotlights



Spotlighting the Spotlight

Wed @ 11:00am in SOS Room

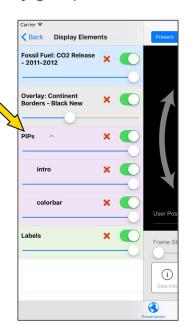




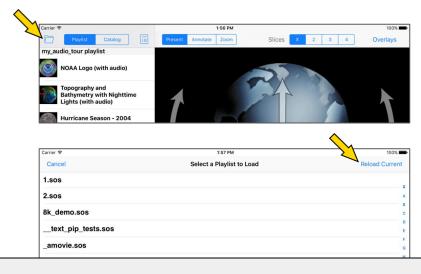
Remote App (iPad)

- Individual control of PIPs
- PIP and Overlay groups





Quick reload of current presentation



Become a power presenter using the iPad

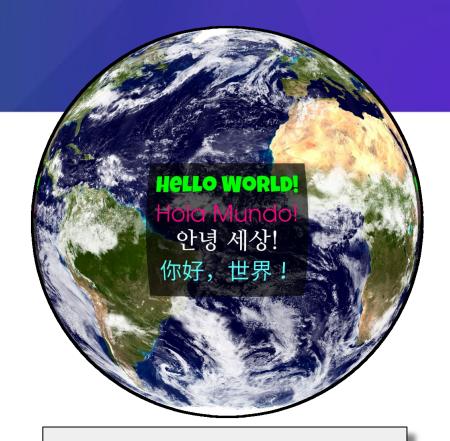
Tues @ 4:30pm in SOS Room



Text PIPs



- Create text for SOS using simple text editor
- Text auto-scales for optimal resolution
- Same functionality as normal PIPs
- Support for multiple languages

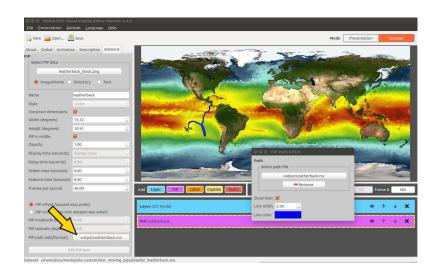


Getting the most out of PIPs

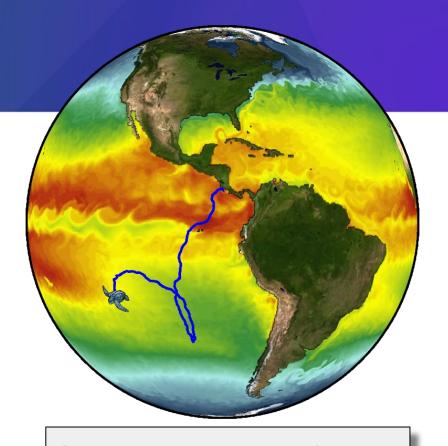
Wed @ 1:00pm in SOS Room



Moving PIPs



- Animal migrations, hurricane/ship tracking, etc
- Avoids embedding moving data into video
- Simple csv file format (frame #, lat, lon)
- Option to draw path and specify path attributes



Getting the most out of PIPs

Wed @ 1:00pm in SOS Room

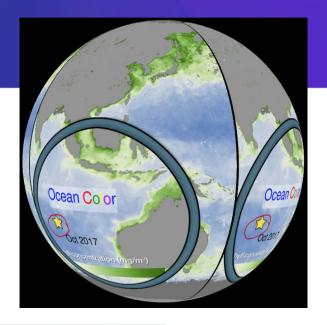


Display Software

Continued improving our core display software.

- Splitter & Magnifier
- Label formatting
- Wibu dongles are now required.

Ubuntu 12.04 - now End of Life and no longer getting security updates. Please upgrade to Ubuntu 16.04 & SOS 5.4 if possible.

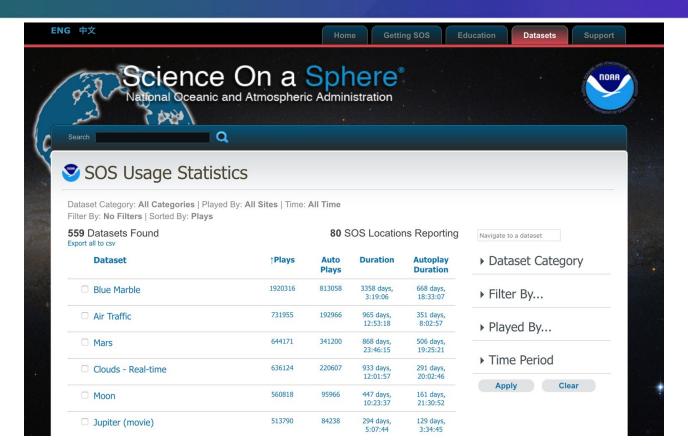


Earthquake 01/21/2018





Usage Statistics





Captions

Displaying captions on SOS

- Show Labels and/or Captions
- Directly uses standard SRT files
- Convert from audio with YouTube
- Translations for non-English speakers
- Show on muted movies with AutoRun
- Edit text formatting in Playlist Editor
- Dozens of NOAA narrated movies getting SRT captions after workshop

Become a power presenter using the iPad, Tues @ 4:30pm in SOS Room

Closed Captioning [CC]



Subtitles







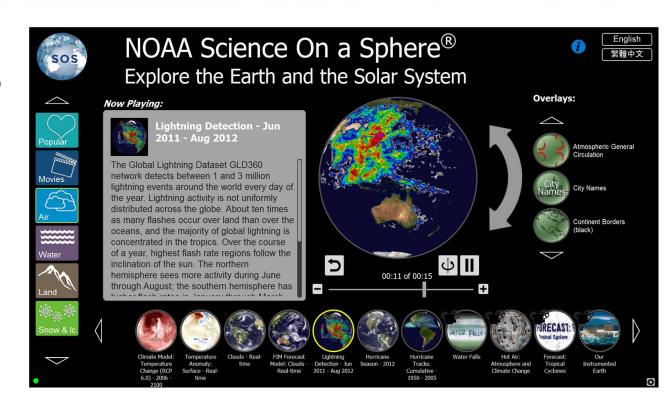


Overview

- 1st version: Nov. '15
- 4 major releases
- Free to SOS sites

Key Features

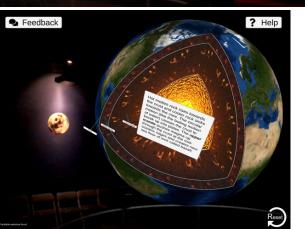
- Simpler than iPad
- Datasets in Groups
- Trackball controller
- Flexible customizing
- Multiple languages

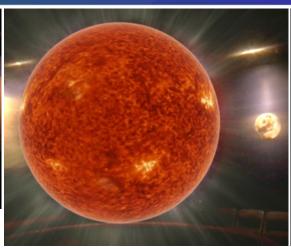


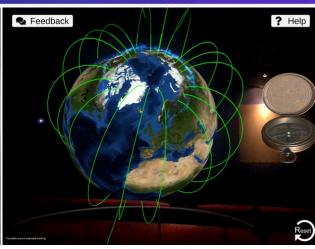


Augmented Reality









Bring SOS visualizations inside or outside the sphere using your iPad!

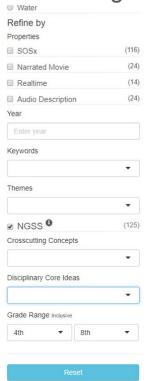
Augmented Reality on the Sphere

<u>Tuesday @ 4:00</u> on Science City's SOS



SOS Website

NGSS Pairing



Phenomena-based Learning Modules





SOS Explorer



SOS Explorer™ (SOSx) is a flat screen, interactive, and portable version Science On a Sphere (SOS).





Ideal for Variety of Settings

<u>User Interface</u>: Single-screen, multi-screen, touchscreen

<u>Display</u>: Projector, video wall, touchscreen, 4k display

Server: Laptop or desktop

<u>Settings</u>: Museums, conferences, schools

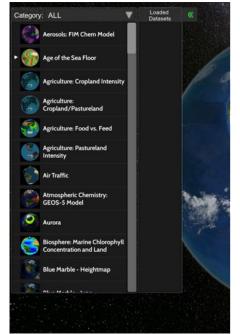
Locations: 25 total sites

11 museums including Nurture Nature Center, 8 schools including one elementary school, 6 NOAA facilities





Methods of Interaction









Catalog Browsing

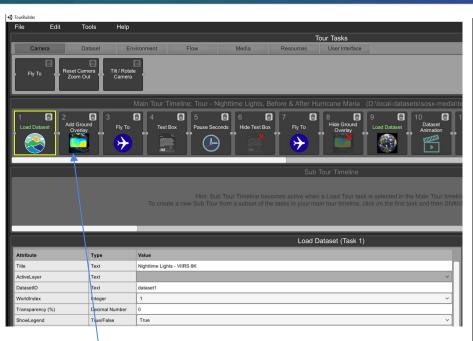
Self-Guided Tours

First Person Experiences

Virtual Reality

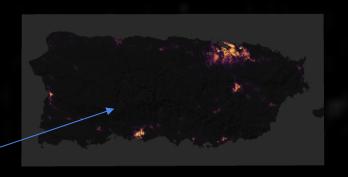


Make it local with the Tour Builder



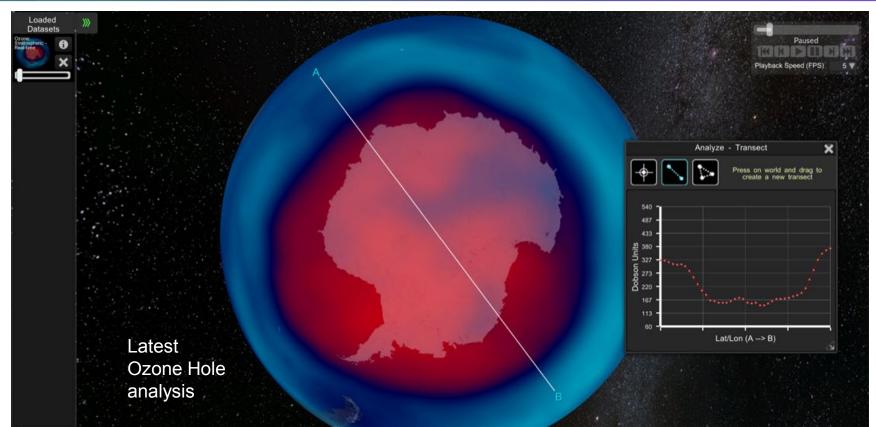
Add high resolution local maps as "ground overlays"

Weather satellites not only help us predict weather but can also provide life-saving information like high-resolution nighttime lights imagery of Puerto Rico before and after Hurricane Maria.





Dig Deeper with Analysis Tools





Data Catalog

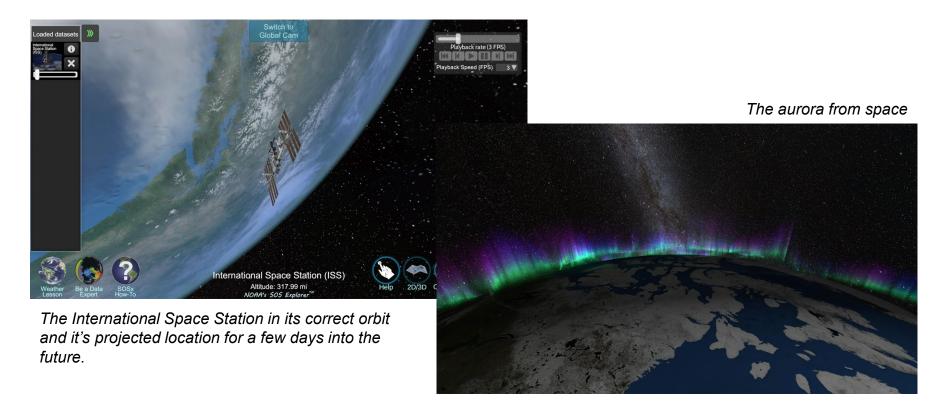
Over 135 datasets including ones you can't find on SOS...

- + First Person Experiences: Moon Walk, Underwater Ocean Adventure, Tornado Safety
- + Space & Atmosphere: Real-time Satellite Positions, Saturn's Rings, Aurora
- + 3-D Models: Animal Migrations, Real-time Satellite Models, Space Junk



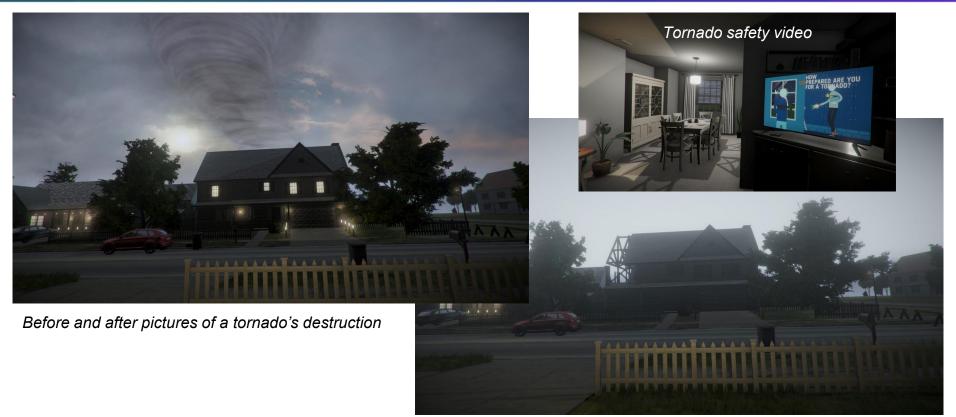


Beyond the Surface of the Sphere





Experiences









SOS Explorer Mobile

- NOAA datasets and pre-built tours
- iOS and Android Devices
- Small application size - Netflix meets SOSx
- Prototype available today
- FREE!





Questions??



Content Creation Question

1. Have you created new	datasets OR custom playlists	with elements like	picture-in-pictures (PIPs), videos,	text, layers,	etc?
Circle the answer.						
es often	yes sometimes		yes once	no n	ever	

- 2. Why or why not? Be specific please.
- 3. What do you need in order to do more dataset and/or playlist creation? Feel free to make a list if you have more than one thing.
- 4. What tool(s) do you make your datasets and playlist with? Please circle ALL that apply.

Visual Playlist Editor SOS Website iPad Remote Text file by hand