



What's New in the SOS Product Suite

NOAA Boulder SOS Team



Outline

What's new?

Alignment

Software Updates

Wii

Projector Control

Visual Playlist Editor

Translations

Schedule:

Session 1: 4:00 - 4:25

Travel Time: 4:25 - 4:35

Session 2: 4:35 - 5:00



Alignment

Auto Alignment

No longer experimental

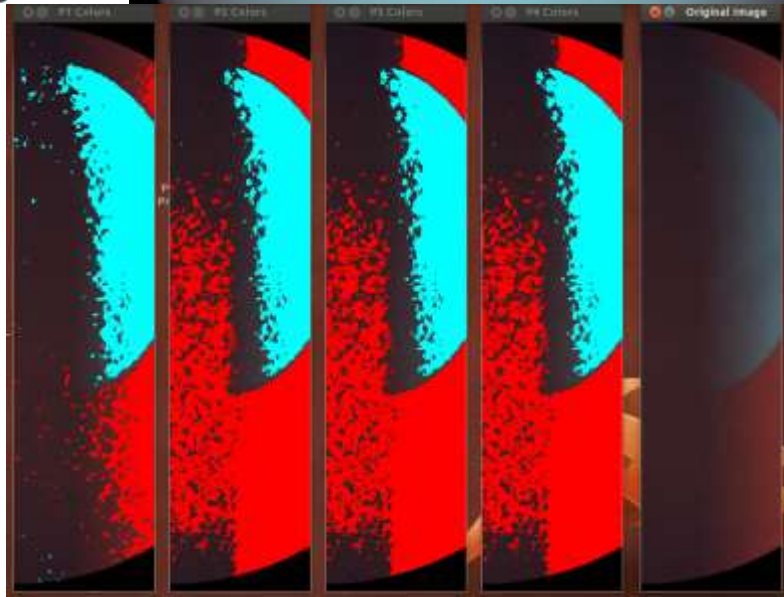
Made improvements to color sensitivity

Flat-field compensation

Still works best with a darker room.

Good first pass alignment

All sites have software installed.





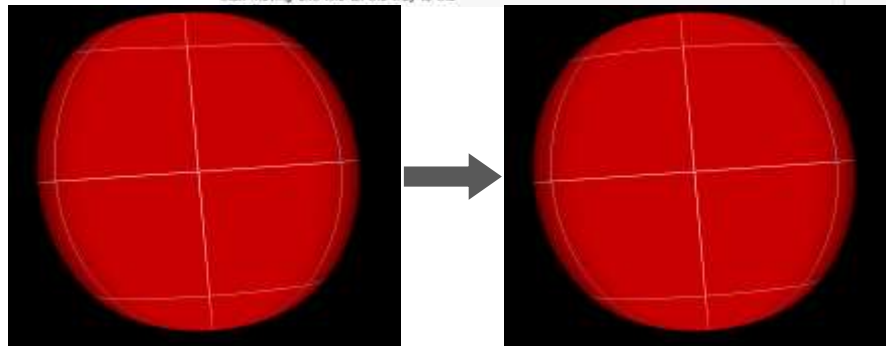
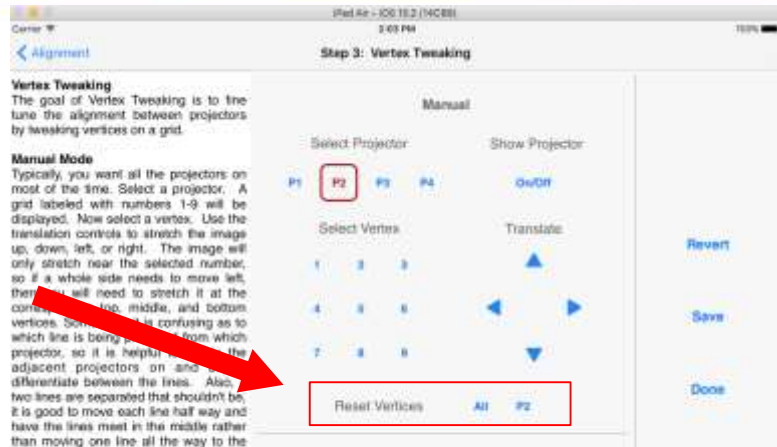
Alignment

Vertex Resetting

Can zero out vertices while leaving adjustments from the redball & grid alignment steps.

Vertex tweaks build up over time and can make it impossible to get a good alignment after a while.

Means will need to align system less





Upgrading your SOS

Moved to Ubuntu 16.04

Starting with v5.1 SOS only runs on Ubuntu 16.04

Instructions on how to upgrade at:

<https://sos.noaa.gov/downloads/docs/sos-upgrade-instructions-5.1.pdf>

Ubuntu “Software Updater”

Normal



ubuntu[®]





Wii Support

Deprecated in the 5.0 release

Removed in the 5.1 release

iPad now supports bluetooth connections

Docs online (sos.noaa.gov/support/how-to/)

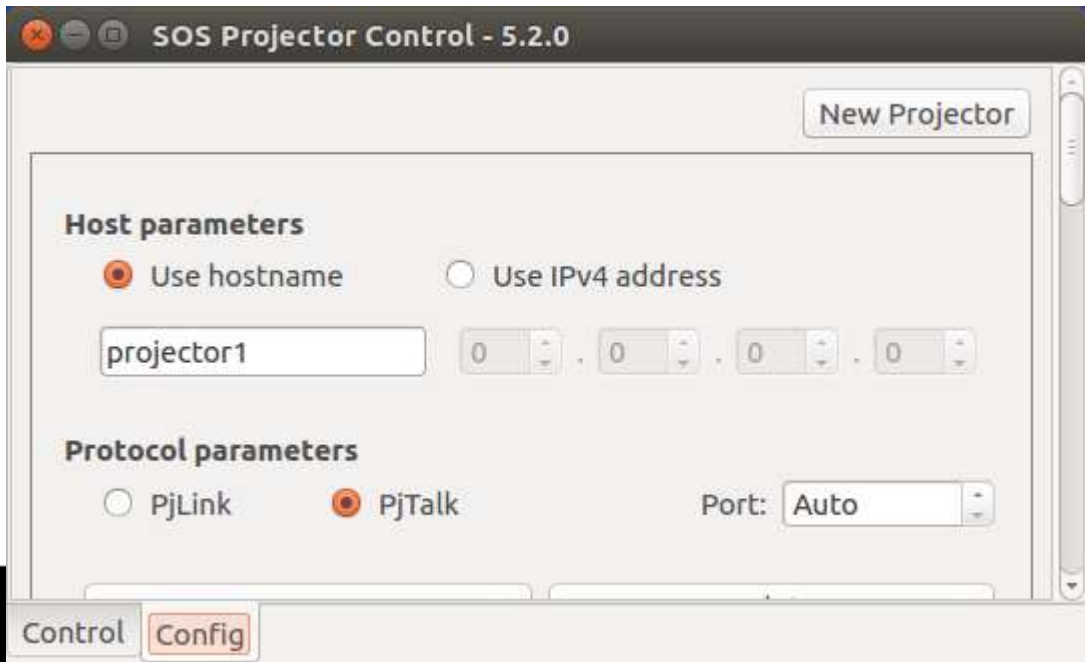
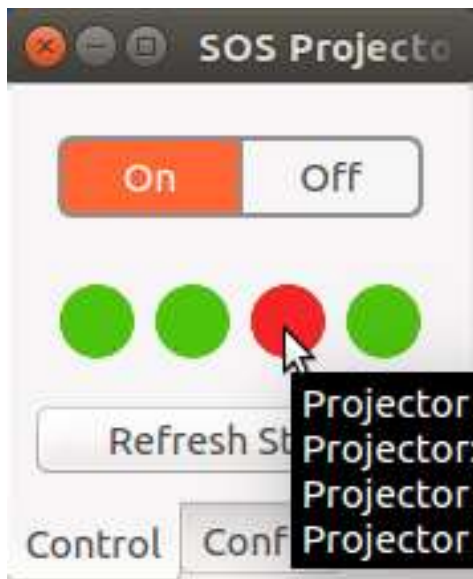
Using the iPad over WiFi still recommended





Projector Control

Individual projector statuses.
Variable number of projectors.
CLI interface for on/off.



Easy to configure. Should 'just work' for most sites.



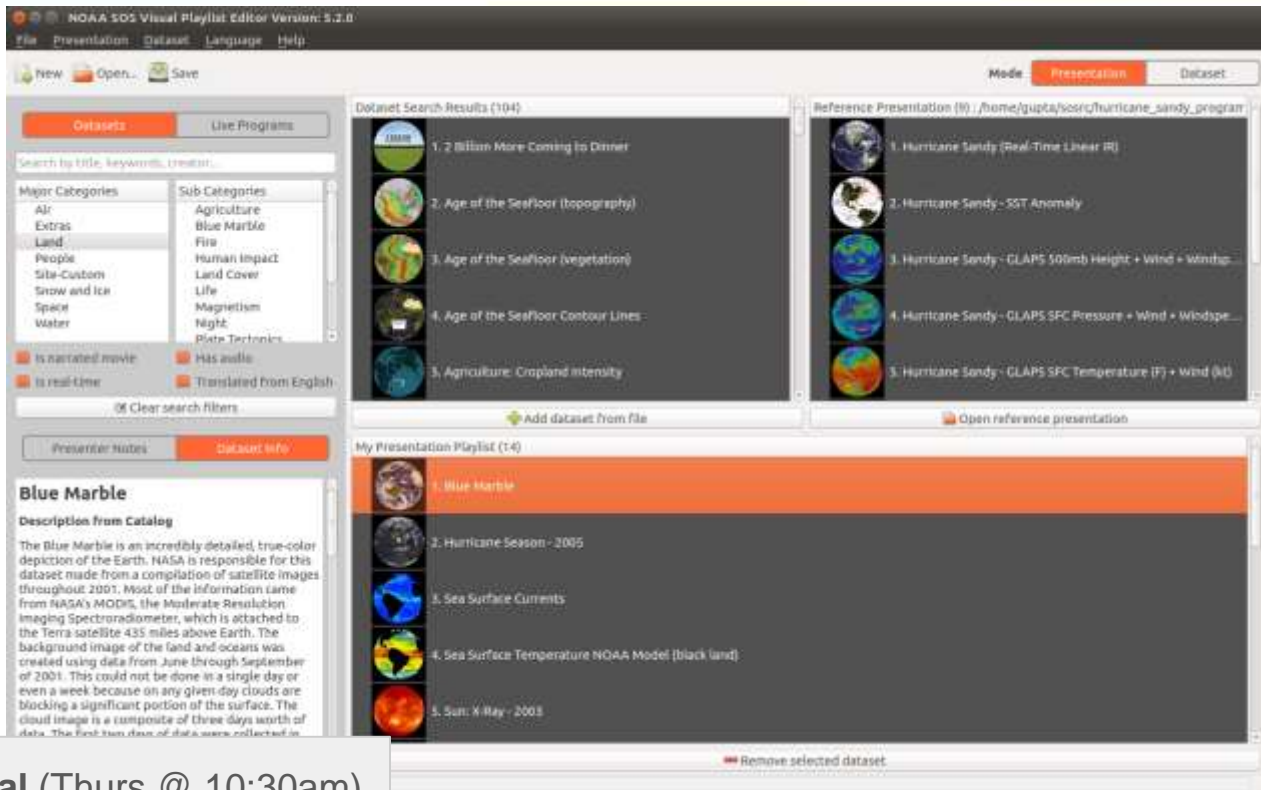
Visual Playlist Editor

Full support for presentation playlists and custom datasets.

Select datasets from the catalog.

Select datasets from a reference playlist.

Click on a dataset to

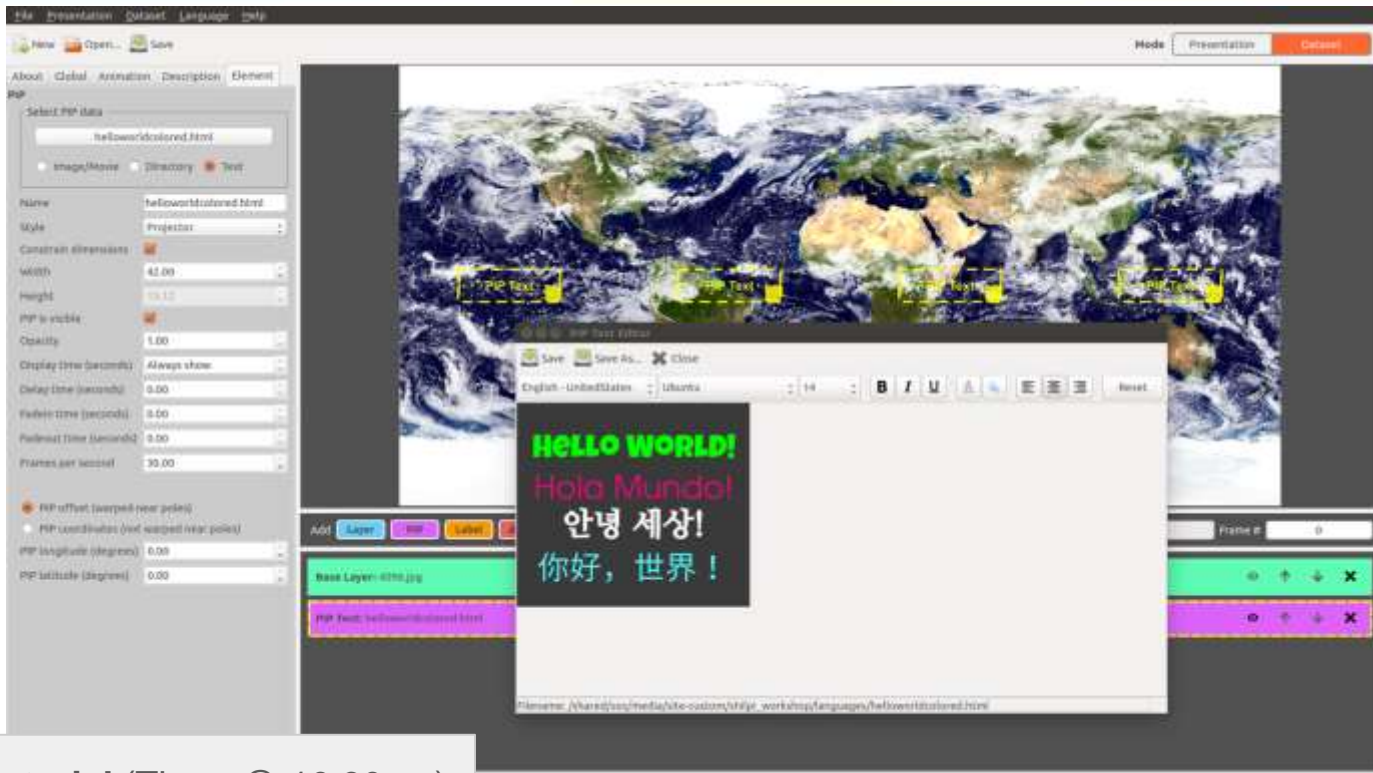
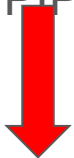




Visual Playlist Editor

Support for adding
Text PIPs.

Come to our tutorial
for more
information about
how you can use
Text PIPs.



SOS Visual Playlist Editor Tutorial (Thurs @ 10:30am)



Visual Playlist Editor

Export a presentation playlist and its data for easing sharing.



NOAA SOS Visual Playlist Editor Version: 5.2.0

File Presentation Dataset Language Help

Mode: Presentation Dataset

Dataset Search Results (100)

Reference Presentation (0)

1. 2 Billion More Coming to Dinner

2. A Global Tour of Precipitation

3. A NAME

4. A Working Watershed: Supports of San Pedro Bay

Copying "Climate Model: Temperature Change (RCP 8.5) - 2006-2100" resources...

C:\share\yourmedia\media\hq\wv\wvdm\colorbar.png

11%

My Playlist

1. Blue Marble

2. Clouds - Real-time

3. FIM Forecast Model: Wind Streamers - Real-time

4. Sea Surface Currents and Temperature (vegetation on land)

5. Sea Surface Salinity

Remove selected dataset

FIM Forecast Model: Wind Streamers - Real-time

Description from Catalog

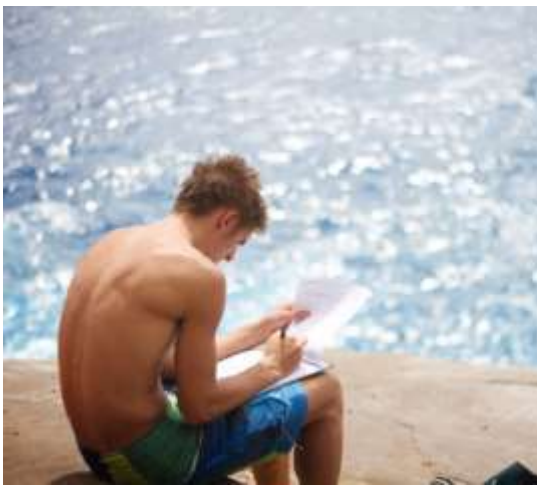
Meteorologists use many tools to predict the weather. They use past data such as temperature observations, real-time data such as radar and satellite images, and models that look into the future. Many different parameters are plotted using the numerical forecast models, which are generated using computers. The models use mathematical equations which use current conditions as the inputs. The resulting outputs are forecasts for what is likely to happen in the future, but those forecasts are based on the current conditions. There are many different models that all attempt to do the same thing. Flow Following Finite Volume atmospheric Model (FIM) is unique because it uses atmospheric observations and satellite data to generate forecasts.

Presentator: /share/hq/hqrc/csp2/1/ast



Visual Playlist Editor

Export presenter notes to text file for easy review.



NOAA SOS Visual Playlist Editor Version: 5.2.0

file Presentation Dataset Language Help

- New Alt+N
- Open... Alt+O
- Save Alt+S
- Save As... Alt+Shift+S
- Export Alt+E
- Export Presenter Notes... Alt+P**
- Generate Summary... Alt+G

Dataset Search Results (135)

- All Sky Wide-field Infrared Survey Explorer Mosaic Image
- Ariel, Uranus' moon
- Aurora
- Aurora with Air Traffic
- Callisto, Jupiter's Moon

Reference Presentation (0)

My Presentation Playlist (11)

- Blue Marble
- Clouds - Real-time
- FIM Forecast Model: Wind Divergents - Real-time**
- Sea Surface Currents and Temperature (vegetation on land)
- Sea Surface Salinity

Presenter Notes

Blue marble: Intro

RT clouds: show atmospheric dynamics and tie into current events. Geostationary infrared satellite images are used by meteorologists to determine where clouds are, but more importantly, how the clouds are moving. The infrared, IR, satellites work by measuring the infrared radiation that is emitted. Because the emitted radiation is proportional to temperature, the data are converted to temperature values, which can be useful for meteorologists.

FIM (Flow Following Finite Volume Icosahedral Model): showcase modeling efforts and highlight importance of prediction.

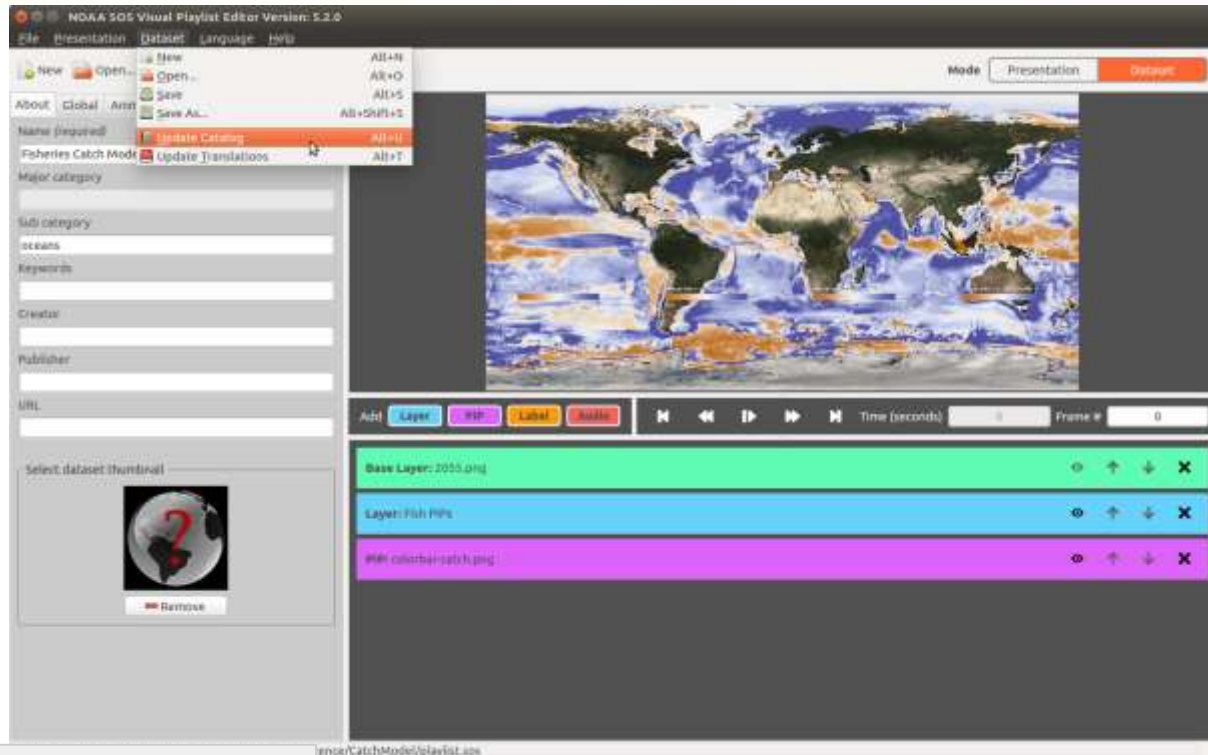
CCC/SCD show connectedness between wind and



Visual Playlist Editor

After making a custom dataset, use the 'Update Catalog' option from the 'Dataset' dropdown to update the data catalog so it contains the new dataset.

Now the iPad can pull in the updated database and your dataset will be discoverable.

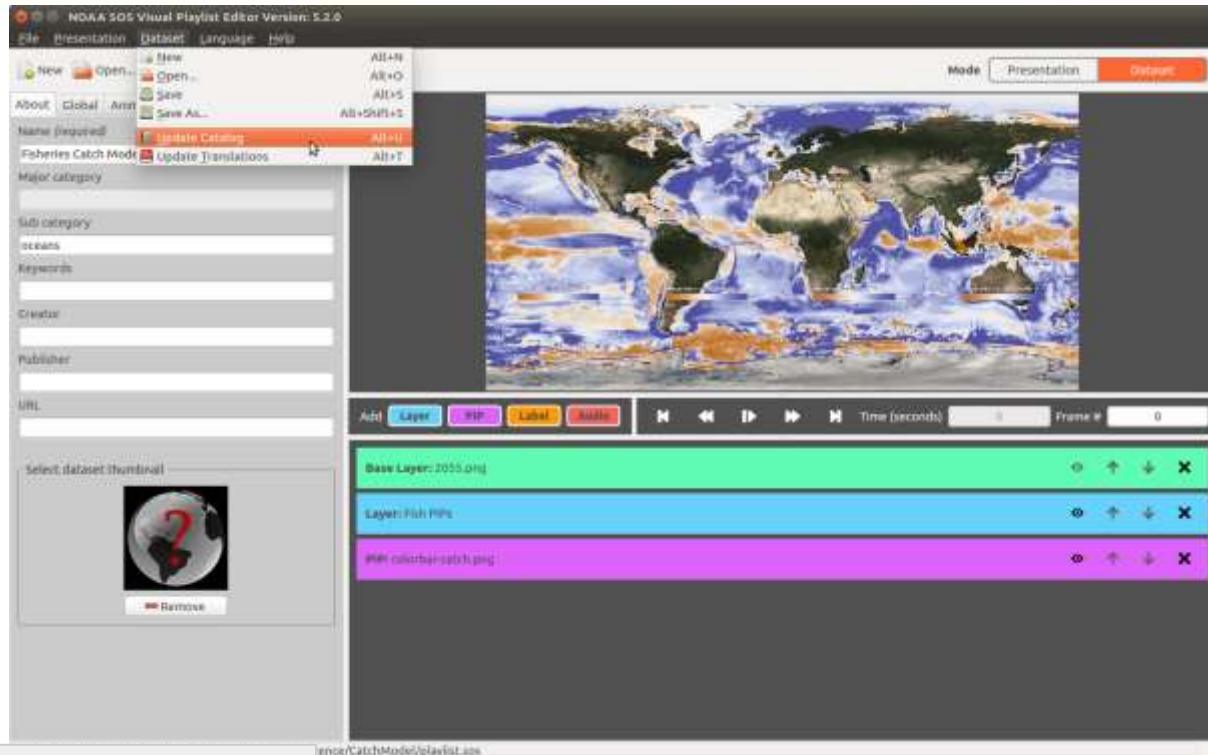




Visual Playlist Editor

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Now the iPad can pull in the updated database and your dataset will be discoverable.





Translations

Expanding language support in SOS applications.

- iPad - SOS Remote App
- Kiosk
- Visual Playlist Editor
- Localized data catalog (iPad search)

English and Traditional Chinese.



Translations - Visual Playlist Editor

Support for translations of Visual Playlist Editor interface elements.

The screenshot displays the Visual Playlist Editor (VPE) interface. The main window shows a video of a globe with the text "FreeSens" overlaid. The interface includes a menu bar (Archivo, Presentación, y del conjunto de datos, Idioma, Ayuda), a toolbar (Nuevo, Abierto..., Solvar), and a status bar (Modo: Presentación, conjunto de datos). The left sidebar contains a "PIP" (Picture-in-Picture) settings panel with options for "Seleccionar datos PIP" (uno.html), "Imagen / Pelicula", "Directorio", and "Texto". The settings include fields for "Nombre", "Estilo", "limitar las dimensiones", "Anchura", "Altura", "PIP es visible", "Opacidad", "El tiempo de visualización (segundos)", "El tiempo de retardo (segundos)", "fadein tiempo (segundos)", "fadeout tiempo (segundos)", "Cuadros por segundo", "PIP offset (deformado cerca de los polos)", "coordenadas PIP (no deformado cerca de los polos)", "PIP longitud (grados)", and "PIP latitud (grados)". A "Editar texto PIP" button is at the bottom of the sidebar. The main video area has a control bar with "Añadir" (Capa, PIP, Etiqueta, Audio), playback controls, "Tiempo (segundos)", and "Cuadro #". A "Capa base: 4096.jpg" is visible. A "PIP Texto" window is open, titled "Editor de texto PIP", showing a text editor with "Spanish [español de Esp - FreeSens" and a "Reiniciar" button. The status bar at the bottom shows the file path: "conjunto de datos: /share/sos/media/land/blue_marble/blue_marble/playlist.sos".



Translations - Visual Playlist Editor

Support for loading dataset translations into database directly from Visual Playlist Editor

NOAA SOS Visual Playlist Editor Version: 5.2.0

File Presentation Dataset Language Help

New Open New Open Save Save As Update Catalog Update Translations

Search by title, keyword

Major Categories: Air, Extras, Land, People, Site-Custom, Snow and ice, Space, Water

Sub Categories: Asteroids and Com..., Deep Space, Earth's Magnetism, Exploration, Missions, Moons, Planets and Exopla..., Satellites

It narrated mode, It real-time, Has audio, Translated from English

Clear search filters

Presenter Notes Dataset Info

Blue marble: Intro

RT clouds: show atmospheric dynamics and tie into current events. Geostationary infrared satellite images are used by meteorologists to determine where clouds are, but more importantly, how the clouds are moving. The infrared, IR, satellites work by measuring the infrared radiation that is emitted. Because the emitted radiation is proportional to temperature, the data are converted to temperature values, which can be useful for meteorologists.

FIM (Flow Following Finite Volume Icosahedral Model): showcase modeling efforts and highlight importance of prediction.

SSC/SST: show connectedness between winds and sea currents. These surface flows and temperatures connect with the top few meters of the ocean.

Search Results (133)

1. All Sky Wide-field Infrared Survey Explorer Mosaic: Image

2. Ariel: Uranus' moon

3. Aurora

4. Aurora with Air Traffic

5. Callisto: Jupiter's Moon

Add dataset from file

Open reference presentation

My Presentation Playlist (11)

1. Blue Marble

2. Clouds - Real-time

3. FIM Forecast Model: Wind Streamers - Real-time

4. Sea Surface Currents and Temperature (vegetation on land)

5. Sea Surface Salinity

Remove selected dataset

Presentation: /home/sos/Desktop/Cop_21_Presentation/presentation.sos



Translations - iPad

The screenshot shows an iPad interface for a video player. On the left is a list of items under the heading "normal-demo 播放清單". The items are:

- 地球-藍色星球
- 2005年颶風季節
- Sea Surface Currents
- Sea Surface Temperature NOAA Model (black land)
- 太陽的X 射線影像 - 2003
- 空中交通
- Tsunami Wave Propagation: Indian Ocean - December 26, 2004
- Aerosols: Black Carbon and Sulfate
- 氣候變遷-溫室變化(採用 GFDL a1b模式) - 1870 - 12 資料集

The main video area shows a globe with a "用戶位置" (User Location) label. A "演示說明" (Demo Guide) pop-up is centered over the video, showing hand gestures and their functions:

- 偏航 (Pan)
- 間距 (Zoom)
- 滾動 (Scroll)
- 切換播放或暫停 (Toggle Play/Pause)
- 切換至註釋 (Toggle Comments)
- 切換至縮小或放大 (Toggle Zoom In/Out)

At the bottom, there is a control panel with icons for "資料內容" (Content), "重播" (Repeat), "2 則說明" (2 Comments), "字幕" (Subtitles), "手勢" (Gestures), and playback controls (Previous, Play/Pause, Next). The iPad status bar at the top shows "iPad Air - iOS 9.3 (14CB9)", "下午5:44", and "100%" battery.



Translations - Kiosk



小球大世界 海洋及太空教學系統

English
繁體中文

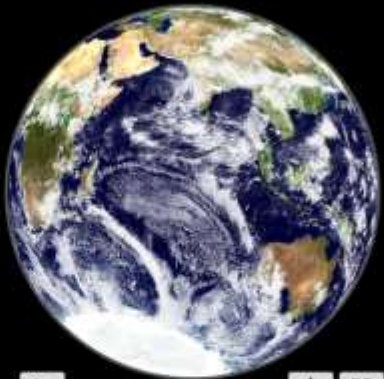
- 最受歡迎
- 電影
- 大氣
- 水文
- 地表
- 冰雪

目前資料:



地球-藍色星球

這顆藍色星球非常詳盡而真實地描繪地球的面貌，這個資料集是由美國太空總署編輯2001年一整年的人造衛星影像所建立起來的。大部分的訊息來自美國太空總署的輻射光譜影像分析器 MODIS (the Moderate Resolution Imaging Spectroradiometer)，它架設在地球上 435 英里的特拉斯頓人造衛星上。除地與海洋的背景影像是採用從 2001 年 6 月至 9 月的所有資料所建立起來的，而不是採用某一天或一個禮拜的資料，因為任何一天，都會有雲層擋住地表某些特定的區域。雲的影像是由資料值所合成的，前二天收集的是可見光波的資料，第三天為了得到極

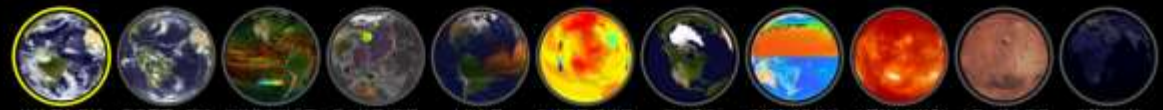


疊圖:

- 大氣環流
- City Names
- 大陸邊界 (黑色)

00:13 of 01:30

Navigation icons: back, play/pause, stop, volume, full screen.



地球-藍色星球 | 衛星雲圖 - 即時資料 | 洋流及海洋表面溫度 | 日本地震、海嘯及漁業相關資料 | 大氣化學: GEOS-5模式 | 氣候變遷-溫室變化 (採用GFDL a1b模式) - 1870-2100 | 海洋溫度 | 海冰季節的流動與海洋溫度的關係 | 太陽的X射線影像 - 2003 | 火星-紅色行星 | 夜間的地球





Translations

Expanding language support in SOS applications.

Unfortunately, Google Translate isn't perfect, so
we rely on you for help translating.

Get in touch if you are willing to contribute:
sos.gsd@noaa.gov



Thanks!

Questions?



Where Do I Go Next?

The other half of this presentation will take place by the Sphere in the Wildlife Interpretive Gallery.

Schedule

Session 1: 4:00 - 4:25

Travel Time: 4:25 - 4:35

Session 2: 4:35 - 5:00

