



**SCIENCE ON
A SPHERE**

Education Forum May 2025

May Themes

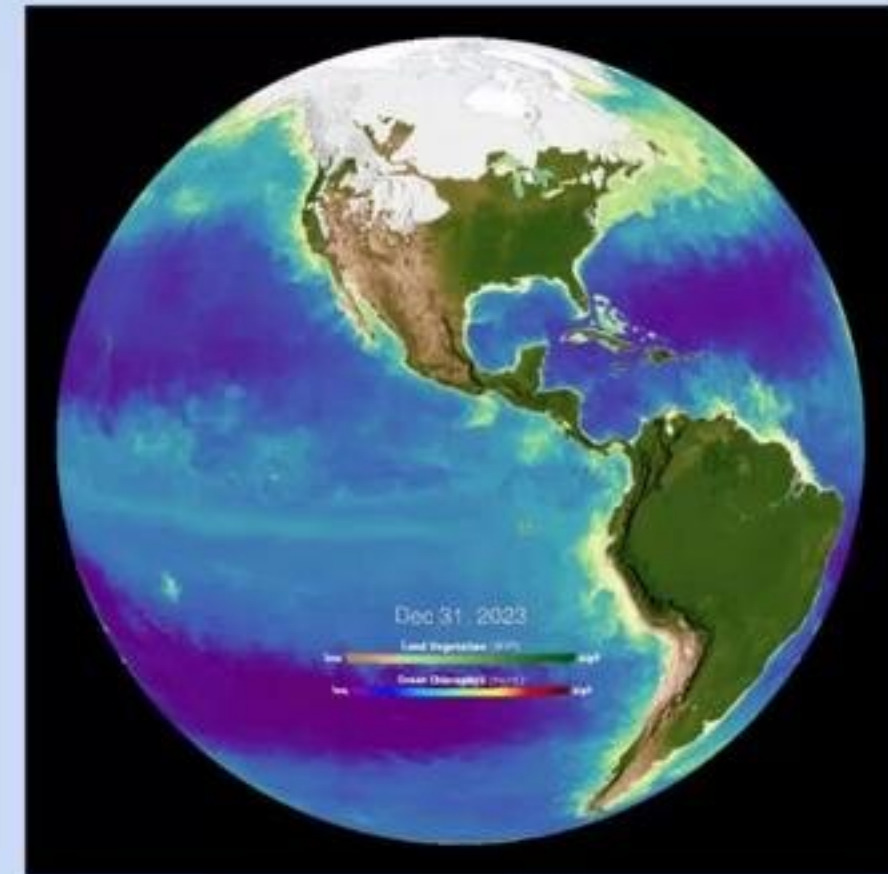
Hurricane preparedness

Endangered species

Spring

Agenda

- Poll Q1
- Team updates
- Datasets
 - New Hurricane Season - 2024
 - Updated Biosphere: Marine Chlorophyll and Land Vegetation
 - Updated Buoys and Floats *preview*
 - New Argo Buoys (by Country) *preview*
- Training
 - Capture a specific event by making a custom dataset with
 - SOS real-time datasets
 - NOAA View datasets
 - Add a temporary Spotlight or Live Program dataset to your Presentation Playlist



Summer is almost here...

<https://www.menti.com/alzmz9ribny3>

OR

Menti.com code: 2333 3672

In one word, what do you love most about summer?



In one word, what do you love most about summer?

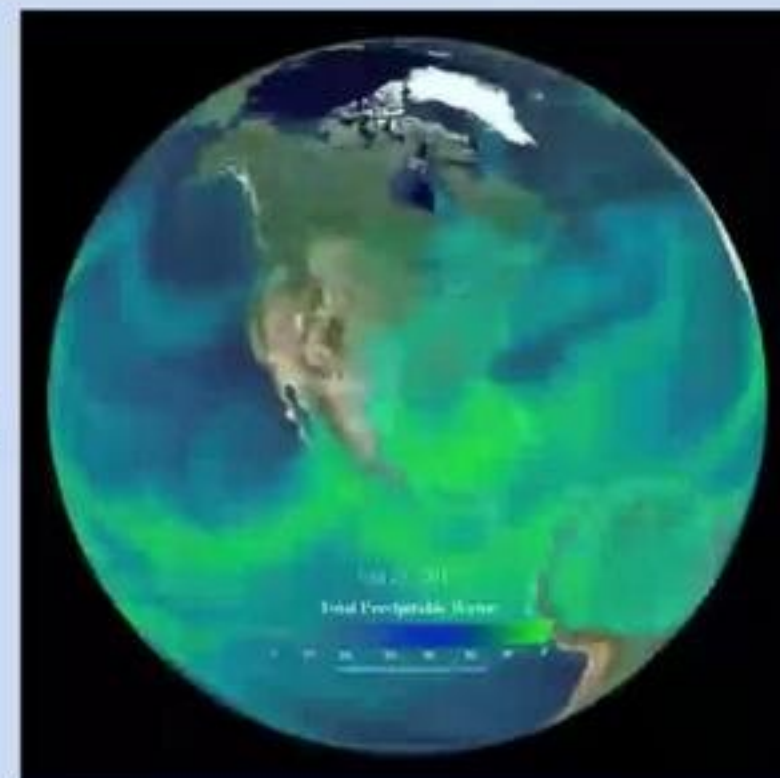


A word cloud visualization of responses to the question 'In one word, what do you love most about summer?'. The words are arranged in a circular pattern around a central point. The words are: 'the outdoors', 'more sunshine', 'summer camp', 'sun', 'hiking', 'swimming', 'popsicles', 'long days', 'garden strawberries', 'vacation', 'walks hiking', 'river time', and 'sun'. The words are in various colors (blue, red, orange) and sizes, indicating their frequency or importance in the responses.

the outdoors
more sunshine
summer camp
sun
hiking
swimming
popsicles
long days
garden strawberries
vacation
walks hiking
river time

Updates

- Team updates
- Real-time datasets should be fixed. If not, please email sos.support@noaa.gov
- Land Surface Temperature Real-time and Precipitable Water (over land) - Real-time are no longer updating.
- Temperature Anomaly: Yearly (NASA) 1881- Present was recently updated.
- Hurricane Season - 2024 had a few bugs and will be updated Monday.



SOS Stream GUI - /home/sos/sosrc/new.sos

SOS File Library Controls Utilities

CURRENT DATASET

Name: Biosphere: Marine Chlorophyll Concentration and Land Vegetation

Details

PLAYBACK

1460

⏮ ⏪ ⏩ ⏭ ⏮ ⏪ ⏩ ⏭ Clear



1. Land Surface Temperature

MajorCategory: Air, Land, Animate: yes, Audio: no



2. Precipitable Water (over land)

MajorCategory: Air, Water, Animate: yes, Audio: no



3. Biosphere: Marine Chlorophyll Concentration and Land Vegetation

MajorCategory: Water, Land, Animate: yes, Audio: no



4. Temperature Anomaly: Yearly (NASA) - 1881 - Present

MajorCategory: Air, atmosphere, Animate: yes, Audio: no



5. Hurricane Season - 2024

MajorCategory: Air, Animate: yes, Audio: no



6. Buoy and Float Locations

MajorCategory: Water, Animate: yes, Audio: no



7. Buoys: Argo (by Country)

MajorCategory: Water, Animate: yes, Audio: no

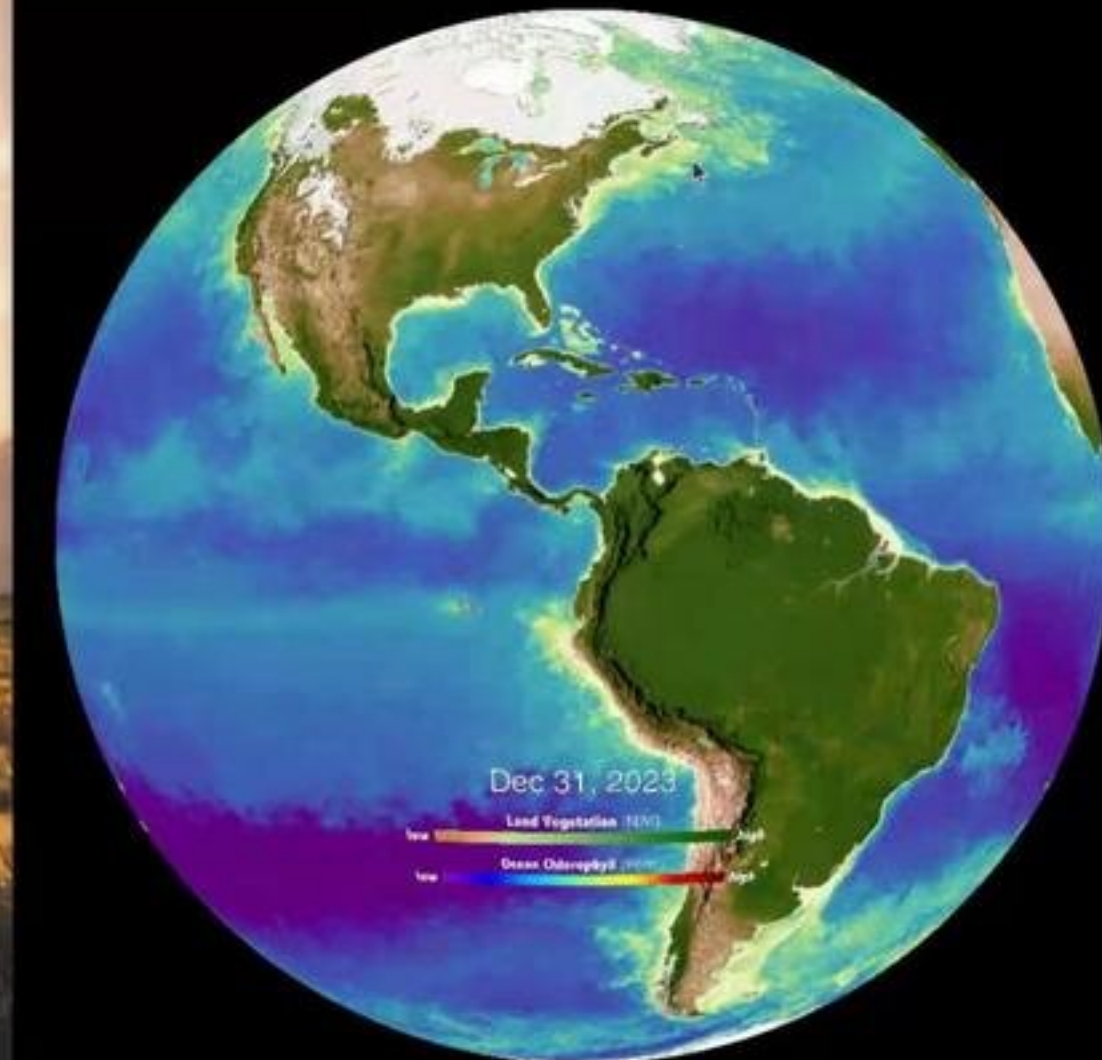


Search Library:

Search

Cancel

/shared/sos/6.0.3/bin/sosturn3



config



land_temp_2048_20250328.png



land_temp_2048_20250319.png



1dum



Presentation



SOS Utilities



Start SOS



SOS Visual Playlist Editor



SOS Projector Control



Home

SOS Stream GUI - /home/sos/sosrc/new.sos

SOS File Library Controls Utilities

CURRENT DATASET

Name: Biosphere: Marine Chlorophyll Concentration and Land Vegetation

Details

PLAYBACK

0

◀◀ ▶▶

⏮ ⏭ ⏪ ⏩ ⏴ ⏵

Clear



1. Land Surface Temperature
MajorCategory: Air, Land, Animate: yes, Audio: no



2. Precipitable Water (over land)
MajorCategory: Air, Water, Animate: yes, Audio: no



3. Biosphere: Marine Chlorophyll Concentration and Land Vegetation
MajorCategory: Water, Land, Animate: yes, Audio: no



4. Temperature Anomaly: Yearly (NASA) - 1881 - Present
MajorCategory: Air, atmosphere, Animate: yes, Audio: no



5. Hurricane Season - 2024
MajorCategory: Air, Animate: yes, Audio: no



6. Buoy and Float Locations
MajorCategory: Water, Animate: yes, Audio: no

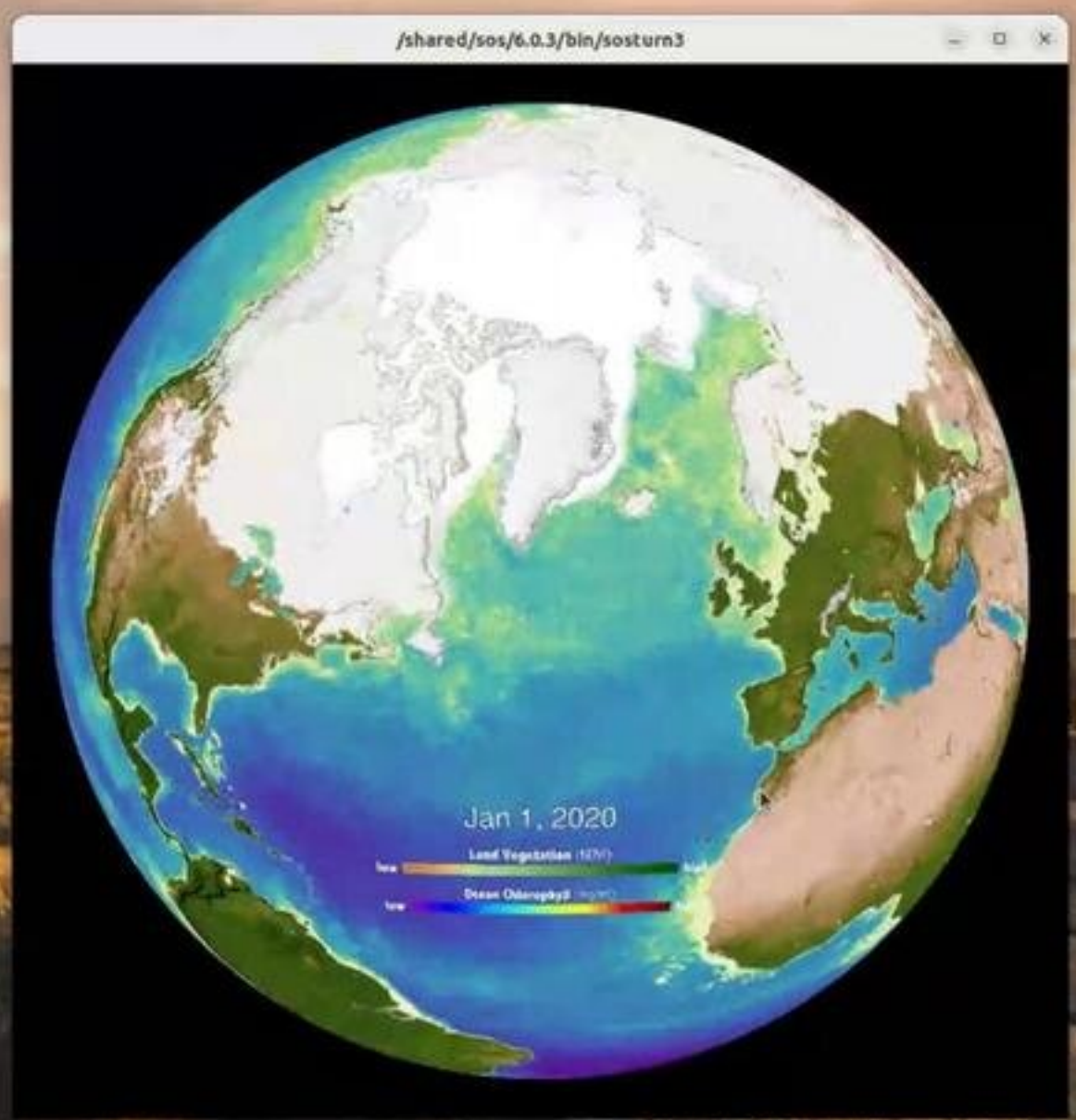


7. Buoys: Argo (by Country)
MajorCategory: Water, Animate: yes, Audio: no

+ Search Library:

Search

Cancel



config

land_temp_2048_20250328.png

land_temp_2048_20250319.png

1d.png

1d1431.png

SOS Utilities

SOS Start SOS

SOS Visual Playlist Editor

SOS Projector Control

Home

SOS Stream GUI - /home/sos/sosrc/new.sos

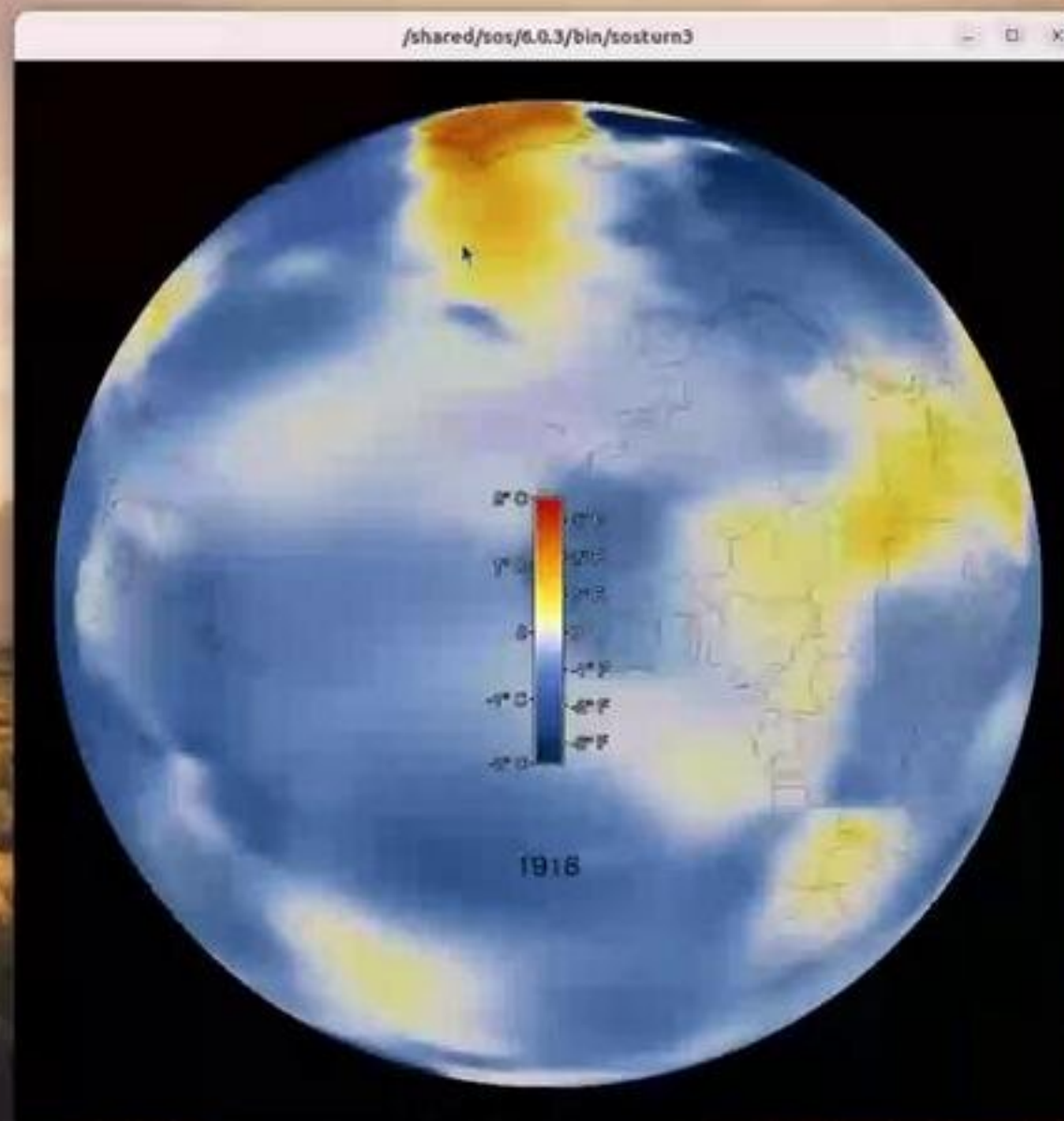
SOS File Library Controls Utilities

CURRENT DATASET
Name: Temperature Anomaly: Yearly (NASA) - 1881 - Present Details

PLAYBACK
211
[Previous] [Play/Pause] [Next] [Full Screen] [Clear]

- 1. Land Surface Temperature
MajorCategory: Air, Land, Animate: yes, Audio: no
- 2. Precipitable Water (over land)
MajorCategory: Air, Water, Animate: yes, Audio: no
- 3. Biosphere: Marine Chlorophyll Concentration and Land Vegetation
MajorCategory: Water, Land, Animate: yes, Audio: no
- 4. Temperature Anomaly: Yearly (NASA) - 1881 - Present - LOADED
MajorCategory: Air, atmosphere, Animate: yes, Audio: no
- 5. Hurricane Season - 2024
MajorCategory: Air, Animate: yes, Audio: no
- 6. Buoy and Float Locations
MajorCategory: Water, Animate: yes, Audio: no
- 7. Buoys: Argo (by Country)
MajorCategory: Water, Animate: yes, Audio: no

+ Search Library: Search Cancel



config

land_temp_2048_20250328.png

land_temp_2048_20250319.png

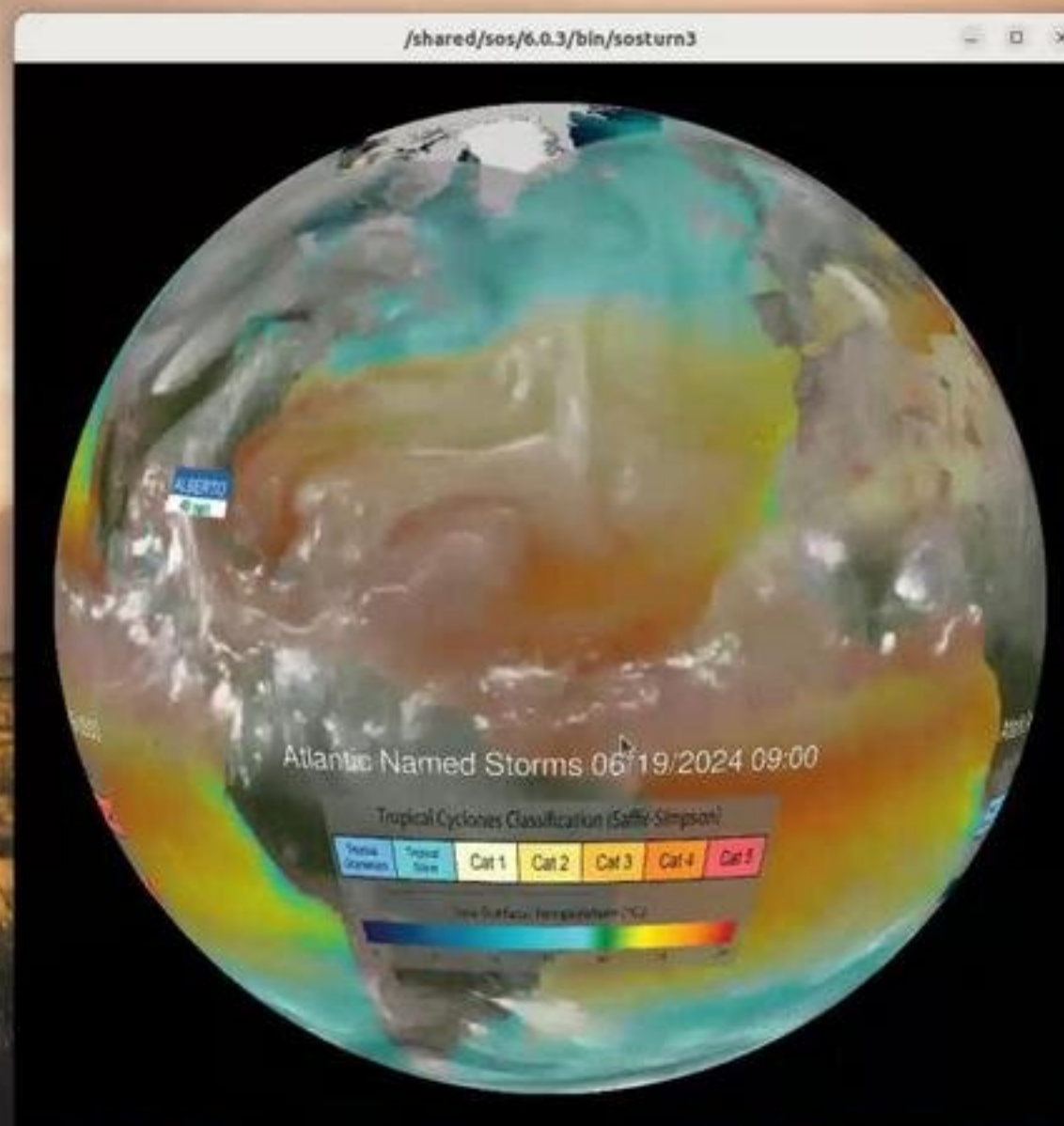
SOS Utilities

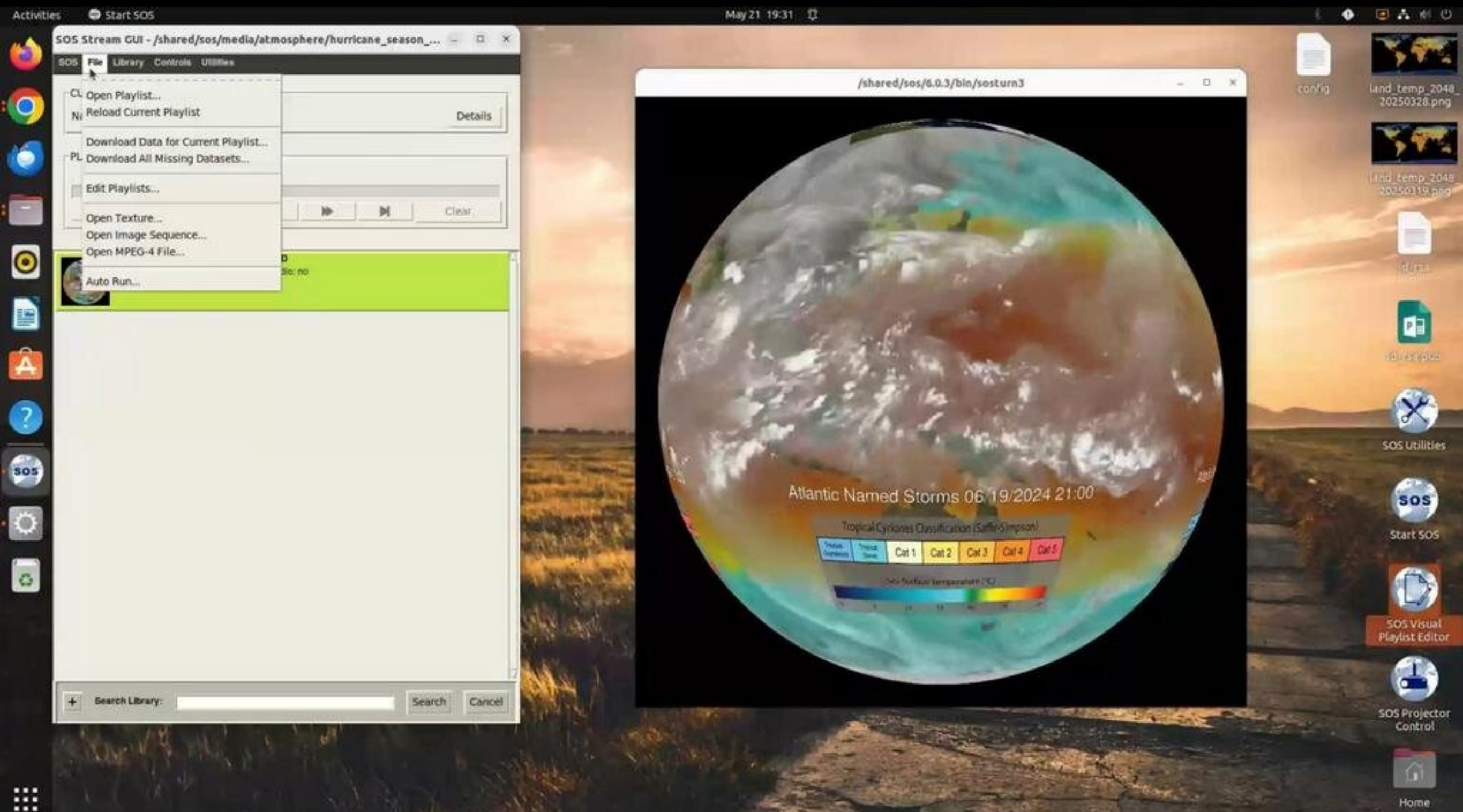
SOS Start SOS

SOS Visual Playlist Editor

SOS Projector Control

Home





SOS Stream GUI - /shared/sos/media/atmosphere/hurricane_season_...

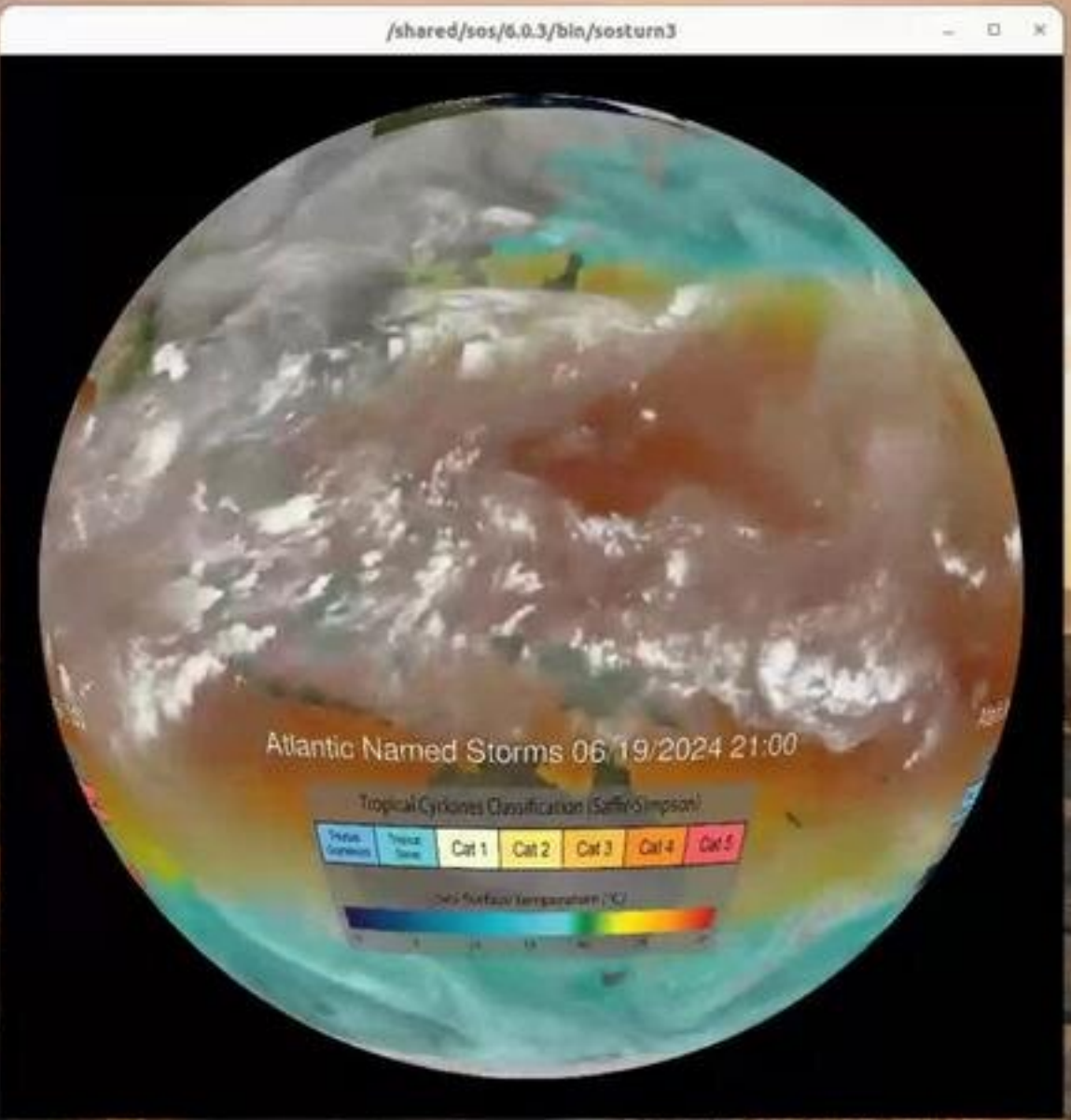
SOS File Library Controls Utilities

- Open Playlist...
- Reload Current Playlist
- Download Data for Current Playlist...
- Download All Missing Datasets...
- Edit Playlists...
- Open Texture...
- Open Image Sequence...
- Open MPEG-4 File...
- Auto Run...

Details

Clear

Search Library: Search Cancel



SOS Stream GUI - /shared/sos/media/atmosphere/hurricane_season_...

SOS File Library Controls Utilities

CURRENT DATASET

Name: Hurricane Season - 2024 Details

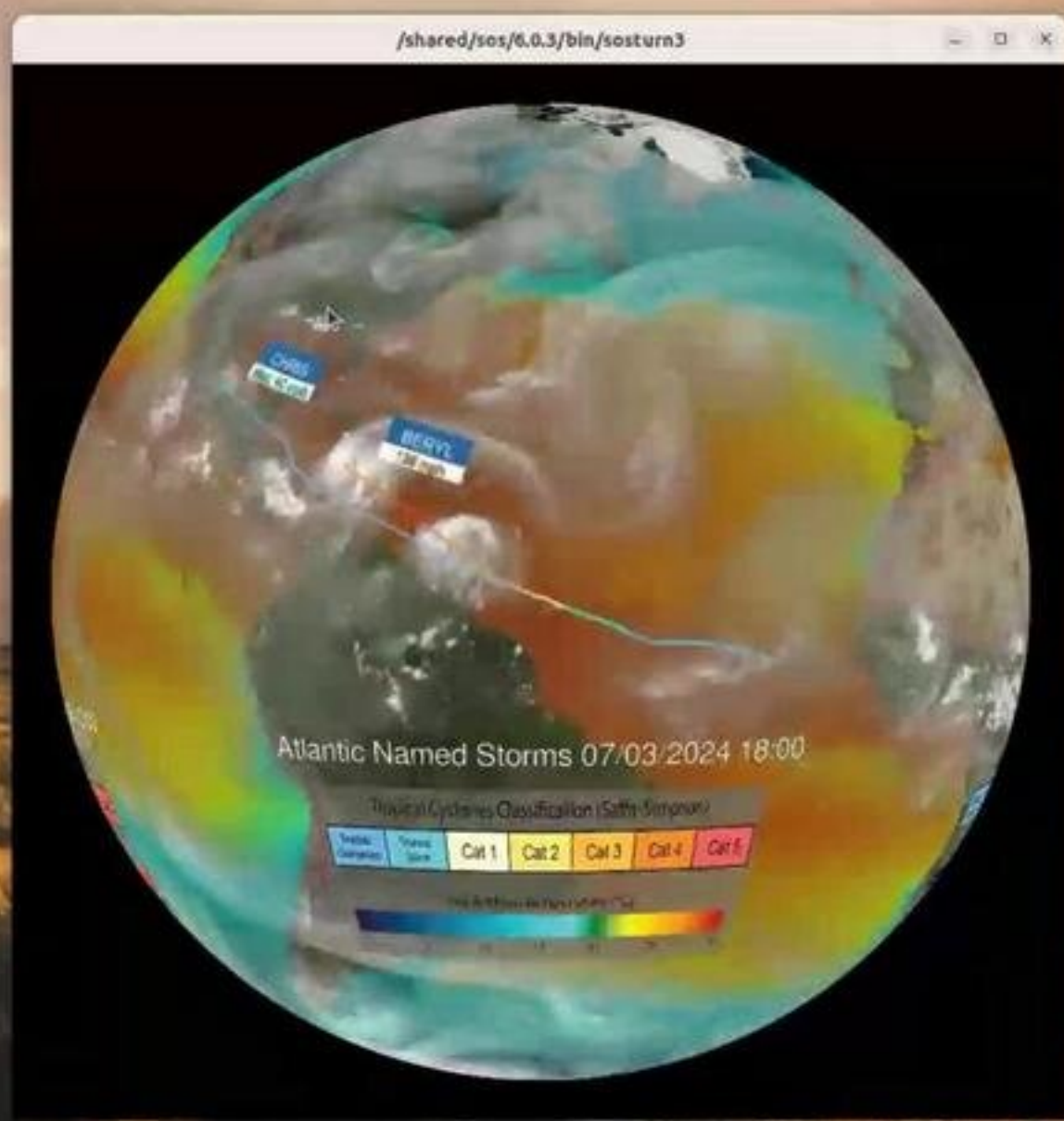
PLAYBACK

782

⏮ ⏪ ⏩ ⏭ ⏮ ⏪ ⏩ ⏭ Clear

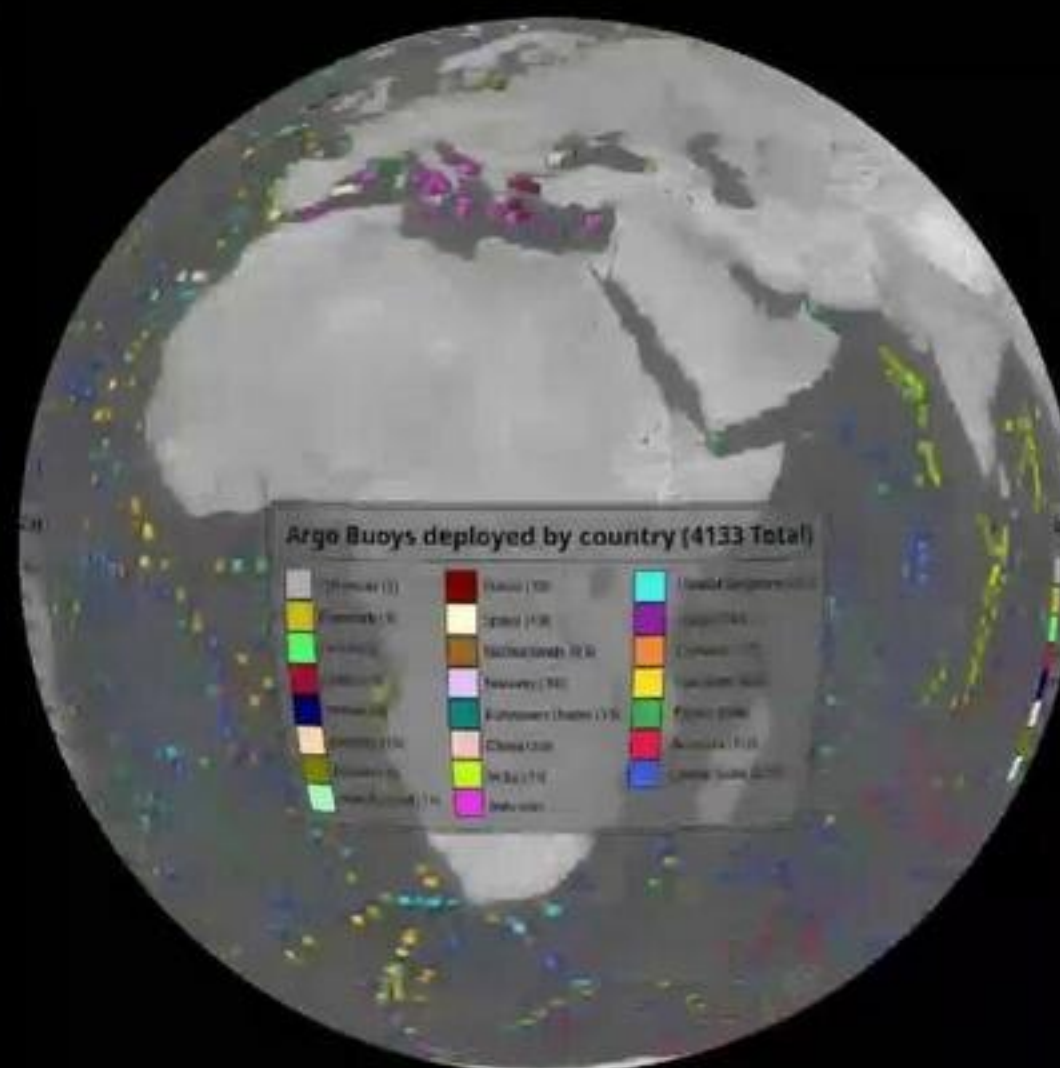
1. Hurricane Season - 2024 - LOADED
MajorCategory: Air, Animate: yes, Audio: no

+ Search Library: Search Cancel



- config
- land_temp_2048_20250328.png
- land_temp_2048_20250319.png
- 18.png
- 18.png
- SOS Utilities
- Start SOS
- SOS Visual Playlist Editor
- SOS Projector Control
- Home

sos
1



The screenshot shows the SOS Stream GUI with the following components:

- Menu Bar:** SOS, File, Library, Controls, Utilities.
- CURRENT DATASET:**
 - Name: Buoy: Argo (by Country)
 - Details button
- PLAYBACK:**
 - Progress bar at 1065
 - Buttons: Previous, Play/Pause, Next, Full Screen, Repeat, Shuffle, Clear
- Dataset List:**
 - 1. Hurricane Season - 2024
MajorCategory: Air, Animate: yes, Audio: no
 - 2. Buoy: Argo (by Country) - LOADED
MajorCategory: Water, Animate: yes, Audio: no
 - 3. Buoy and Float Locations
MajorCategory: Water, Animate: yes, Audio: no
- Search Bar:** Located at the bottom with a '+' icon, 'Search Library:' text, a search input field, and 'Search' and 'Cancel' buttons.

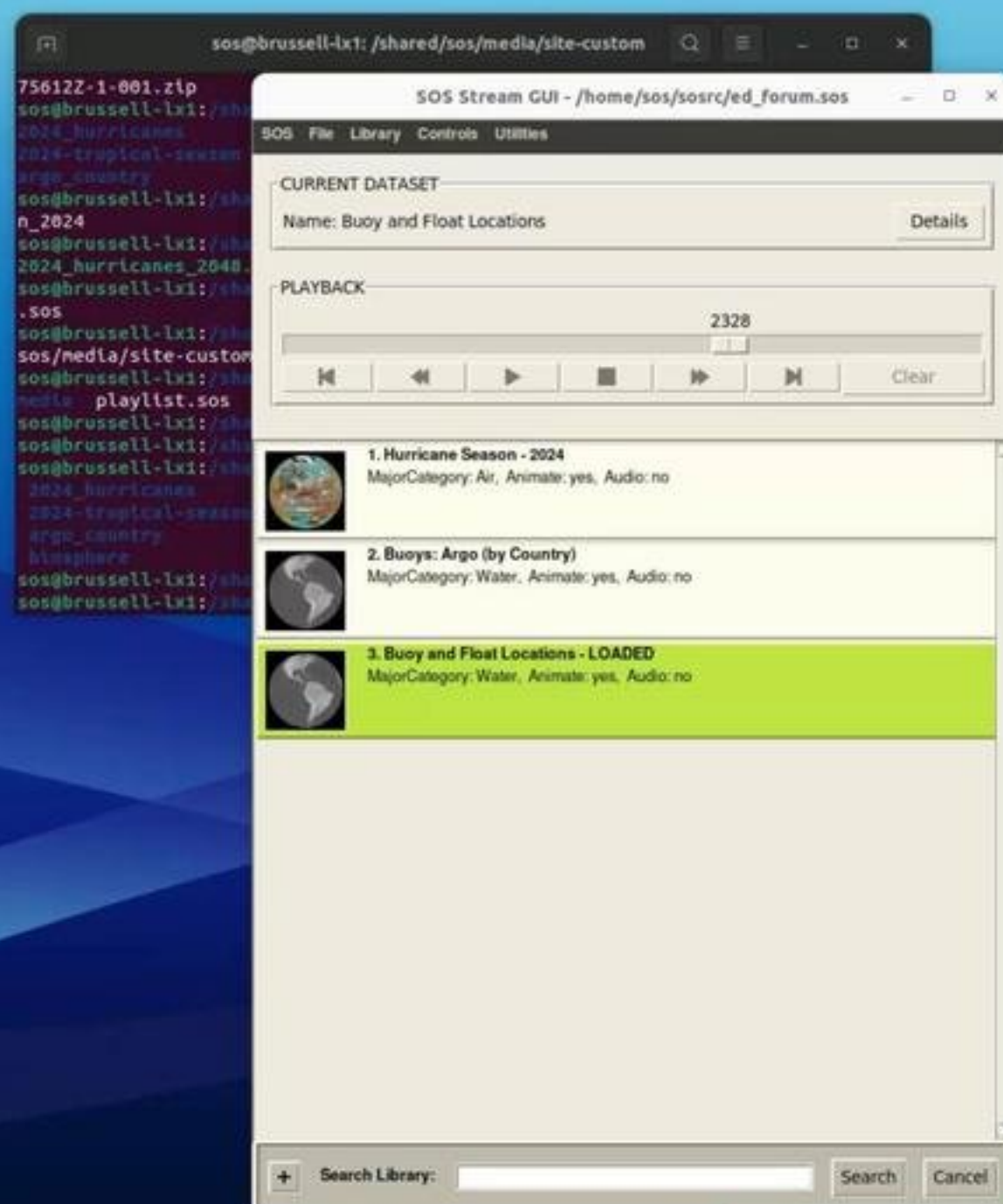
"ed_forum.sos" 4L, 2878 written

3.45

ALL

Logged in as

sos 1



"ed_forum.sos" 4L, 2878 written

3,45

ALL

Logged in as

SOS 1

sos@brussell-lx1: /shared/sos/media/site-custom

756122-1-001.zip
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
sos@brussell-lx1:/shared/sos/media/site-custom
n_2024
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes_2048
sos@brussell-lx1:/shared/sos/media/site-custom
.sos
sos@brussell-lx1:/shared/sos/media/site-custom
sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom
media_playlist.sos
sos@brussell-lx1:/shared/sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
biosphere
sos@brussell-lx1:/shared/sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom

SOS Stream GUI - /home/sos/sosrc/ed_forum.sos

SOS File Library Controls Utilities

CURRENT DATASET
Name: Clouds with Precipitation - Real-time Details

PLAYBACK
0
[Progress Bar]
[Previous] [Play/Pause] [Next] [Stop] [Full Screen] [Clear]

 1. Hurricane Season - 2024
MajorCategory: Air, Animate: yes, Audio: no

 2. Buoys: Argo (by Country)
MajorCategory: Water, Animate: yes, Audio: no

 3. Buoy and Float Locations
MajorCategory: Water, Animate: yes, Audio: no

+ Search Library: [Input Field] Search Cancel



"ed_forum.sos" 4L, 207B written

3,45

All

SOS
1



The screenshot displays the SOS Stream GUI. At the top, the title bar reads 'SOS Stream GUI - /home/sos/sosrc/ed_forum.sos'. Below the title bar is a menu bar with 'SOS', 'File', 'Library', 'Controls', and 'Utilities'. The main content area is divided into sections. The 'CURRENT DATASET' section shows 'Name: Clouds with Precipitation - Real-time' with a 'Details' button. Below this is the 'PLAYBACK' section, which includes a progress bar set to 25, a play button, and a 'Clear' button. The 'Library' section lists three datasets: 1. Hurricane Season - 2024 (MajorCategory: Air, Animate: yes, Audio: no), 2. Buoys: Argo (by Country) (MajorCategory: Water, Animate: yes, Audio: no), and 3. Buoy and Float Locations (MajorCategory: Water, Animate: yes, Audio: no). At the bottom, there is a search bar with a '+' icon, a 'Search Library:' label, a search input field, and 'Search' and 'Cancel' buttons.

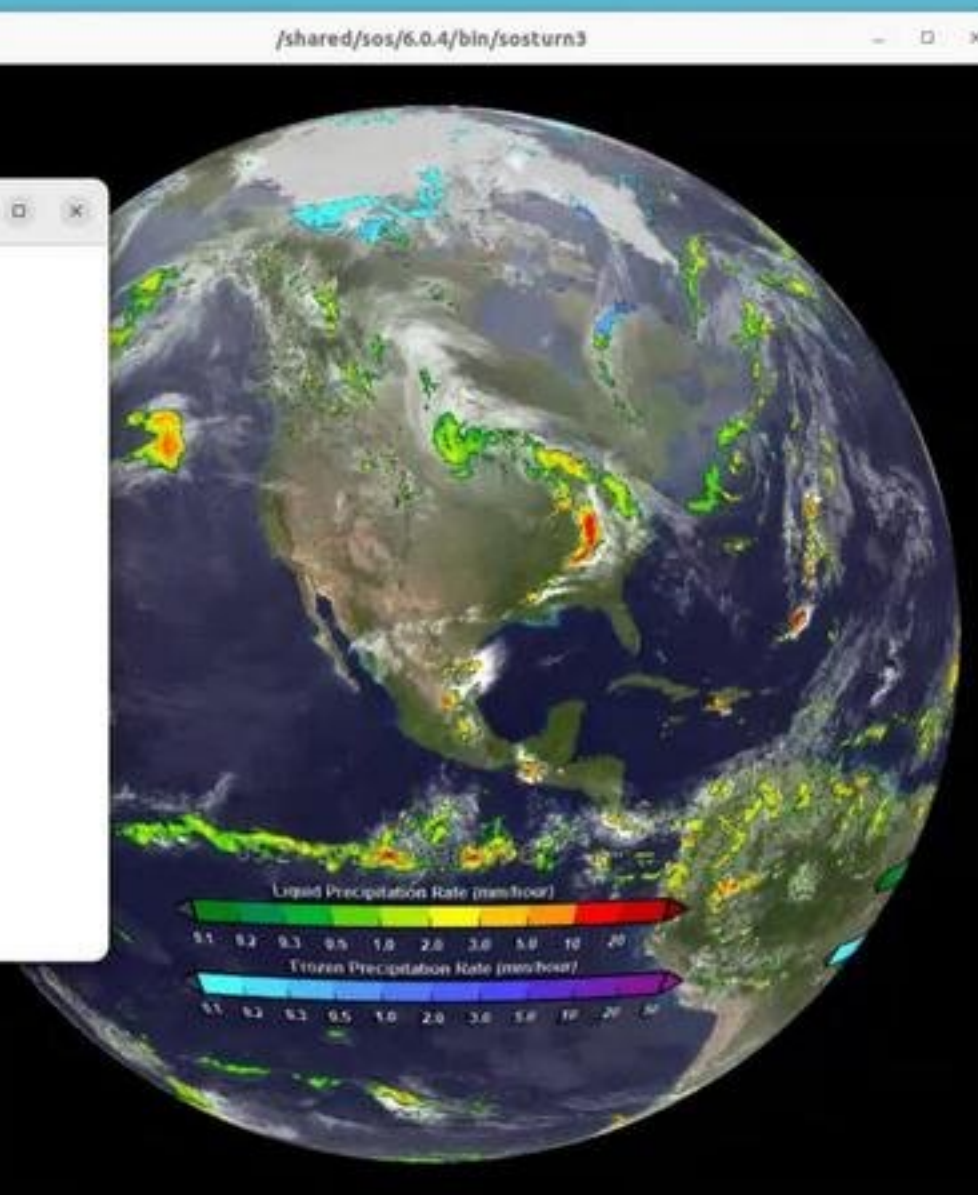
```
"ed_forum.sos" 4L, 287B written
```

3.45

All

Logged in as

sos
1



"ed_forum.sos" 4L, 287B written

3,45

ALL

Logged in as

SOS

1

sos@brussell-lx1: /shared/sos/media/site-custom

756122-1-001.zip
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
sos@brussell-lx1:/shared/sos/media/site-custom
n_2024
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes_2048
sos@brussell-lx1:/shared/sos/media/site-custom
.sos
sos@brussell-lx1:/shared/sos/media/site-custom
sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom
media_playlist.sos
sos@brussell-lx1:/shared/sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
biosphere
sos@brussell-lx1:/shared/sos/media/site-custom
sos@brussell-lx1:/shared/sos/media/site-custom

SOS Stream GUI - /home/sos/sosrc/ed_forum.sos

SOS File Library Controls Utilities

CURRENT DATASET
Name: Clouds with Precipitation - Real-time Details

PLAYBACK
335
Clear

1. Hurricane Season - 2024
MajorCategory: Air, Animate: yes, Audio: no

2. Buoys: Argo (by Country)
MajorCategory: Water, Animate: yes, Audio: no

3. Buoy and Float Locations
MajorCategory: Water, Animate: yes, Audio: no

+ Search Library: Search Cancel

/shared/sos/6.0.4/bin/sosturn3

computer / shared / sos / rt / noaa / clouds_precip

Recent
Starred
Home
Desktop
Documents
Downloads
Music
Pictures
Videos
Trash
media
+ Other Locations

4096
labels
media
playlist

"ed_forum.sos" 4L, 207B written

3,45

All



Logged in as

SOS
1

sos@brussell-lxt: /shared/sos/media/site-custom

```
playlist.sos
1 name = Clouds with Precipitation - May Tornadoes
2 data = ../4896
3 fps = 10
4 firstdwell = 2000
5 lastdwell = 3000
6 pip = ../labels/rainbar_white.png
7 pipheight = 11
8 pipvertical = -25
9 pip = ../labels/snowbar_white.png
10 pipheight = 11
11 pipvertical = -34
12 label = ../labels/labels.txt
13 labelposition = -0.4,-0.38
14
15 catalog_url = http://sos.noaa.gov/Datasets/dataset.php?id=670
16 majorcategory = Air
17
```

Saving file "/shared/sos/media/site-custom/clouds_precip/pla... Plain Text Tab Width: 8 Ln 14, Col 1 INS

/shared/sos/6.0.4/bin/sosturn3



/ sos / media / site-custom / clouds_precip / playlist



playlist.sos

"playlist.sos" selected (382 bytes)

+ Search Library: Search Cancel

"ed_forun.sos" 4L, 207B written

3,45

All



Logged in as

SOS

1

sos@brussell-lx1: /shared/sos/media/site-custom

```
756122-1-001.zip
sos@brussell-lx1: /shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
sos@brussell-lx1: /shared/sos/media/site-custom
n_2024
sos@brussell-lx1: /shared/sos/media/site-custom
2024_hurricanes
sos@brussell-lx1: /shared/sos/media/site-custom
.sos
sos@brussell-lx1: /shared/sos/media/site-custom
sos/media/site-custom
sos@brussell-lx1: /shared/sos/media/site-custom
media_playlist.sos
sos@brussell-lx1: /shared/sos/media/site-custom
sos@brussell-lx1: /shared/sos/media/site-custom
2024_hurricanes
2024-tropical-season
argo_country
biosphere
sos@brussell-lx1: /shared/sos/media/site-custom
sos@brussell-lx1: /shared/sos/media/site-custom
```

SOS Stream GUI - /home/sos/sosrc/ed_forum.sos

SOS File Library Controls Utilities

CURRENT DATASET

Name: Clouds with Precipitation - Real-time

Details

playlist.sos

```
1 name = Clouds with Precipitation - May Tornadoes
2 data = ../4096
3 fps = 10
4 firstdwell = 2000
5 lastdwell = 3000
6 pip = ../labels/rainbar_white.png
7 pipheight = 11
8 pipvertical = -25
9 pip = ../labels/snowbar_white.png
10 pipheight = 11
11 pipvertical = -34
12 label = ../labels/labels.txt
13 labelposition = -0.4,-0.38
14
15 catalog_url = http://sos.noaa.gov/Datasets/dataset.php?id=678
16 majorcategory = Air
17
```

Saving file "/shared/sos/media/site-custom/clouds_precip/playlist.sos" Plain Text Tab Width: 8 Ln 14, Col 1 INS

+ Search Library: Search Cancel

/shared/sos/6.0.4/bin/sosturn3

dia / sit...om / clo...cip / playlist



playlist.sos

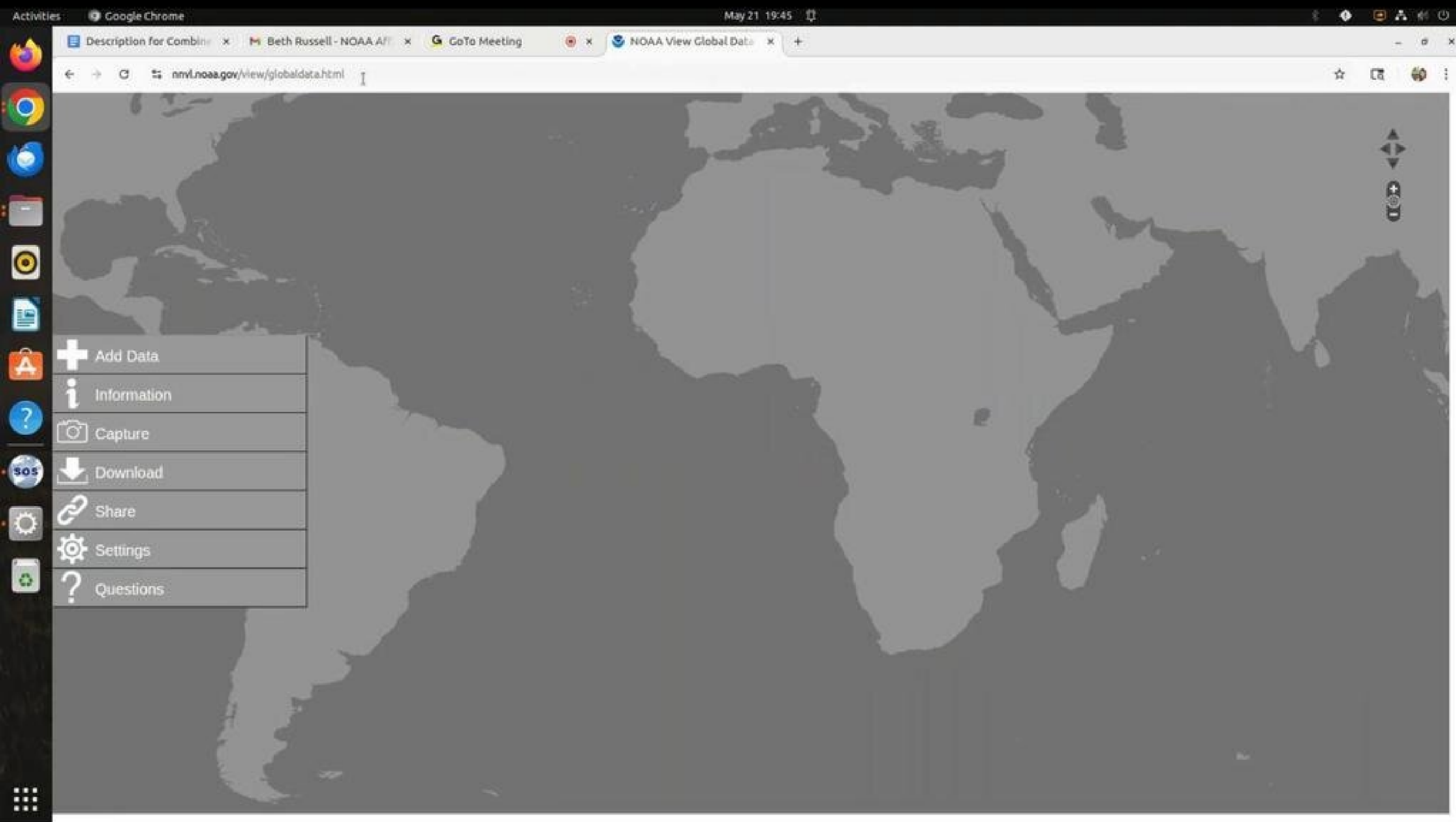
"playlist.sos" selected (382 bytes)

"ed_forum.sos" 4L, 207B written

3,45

All

SOS
Science On a Sphere®



Activities Google Chrome May 21 19:47

Description for Combin... x Beth Russell - NOAA A/... x GoTo Meeting x NOAA View Global Dat... x

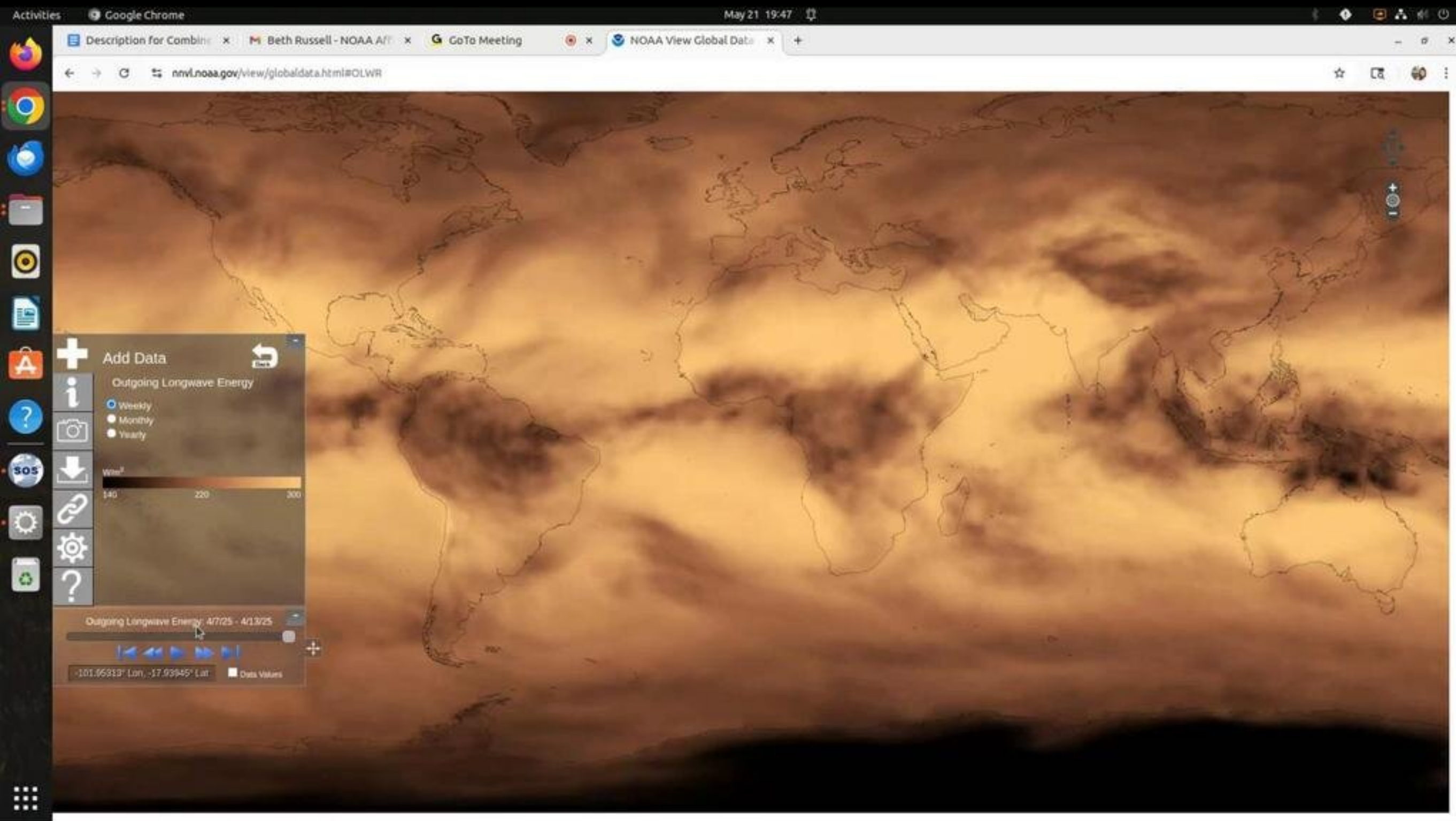
nmf.noaa.gov/view/globaldata.html#SURF

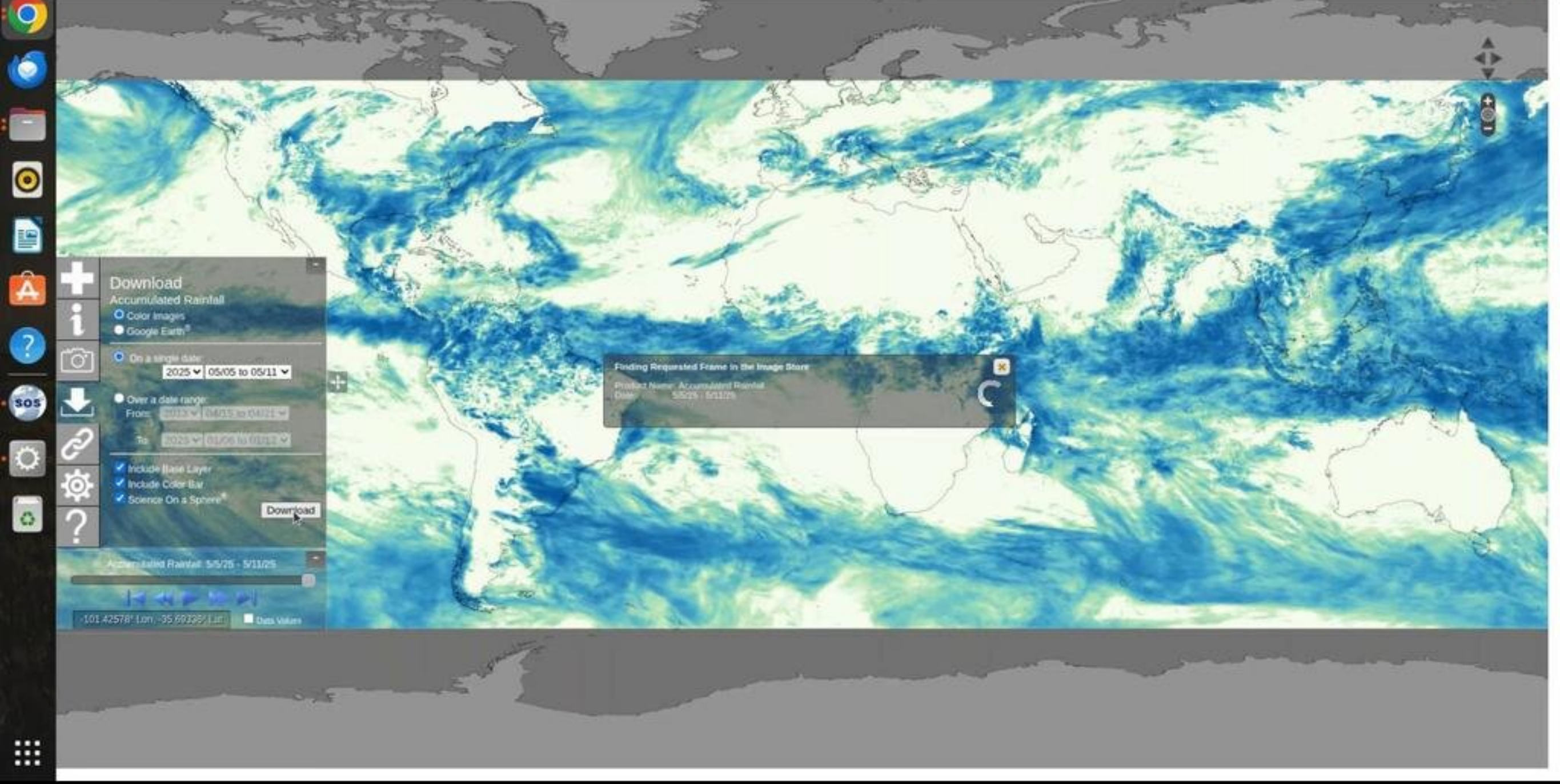
Add Data

- Chemistry
- Clouds
- True Color
- Precipitation
- Energy
- Wind Speed

Sea Surface Temperature: 5/12/25 - 5/18/25

-101.25000° Lon, 14.58008° Lat Data Values





Cancel

Select Move Destination

Search

Select

Recent

Home

Documents

Downloads

Music

Pictures

Videos

Trash

Other Locations

< sos Downloads >

Name

Size

Type

Modified

Accumulated_Rainfall_202519_to_202519

19:49

Argo by country-20250520T192104Z-1-001

Yesterday

biosphere-20250403T184354Z-001

3 Apr

Buoys and Floats-20250520T203718Z-1-001

Yesterday

field

29 Apr

Hurricane Season - 2024-20250501T152624Z-1-001

1 May

tempanom_2024-20250403T152137Z-001

3 Apr

2024_hurricanes_2048.mp4

371.6 MB

Video

Thu

Accumulated_Rainfall_202519_to_202519.zip

8.4 MB

Archive

19:49

Argo by country-20250520T192104Z-1-001.zip

4.2 MB

Archive

Yesterday

biosphere-20250403T184354Z-001.zip

481.6 MB

Archive

3 Apr

Buoys and Floats-20250520T203718Z-1-001.zip

7.0 MB

Archive

Yesterday

composite.sh

427 bytes

Program

3 Apr

debian-binary

4 bytes

Text

13 May

Description.docx

10.0 kB

Document

Thu

ffmpeg_recorder

1.2 kB

Program

3 Apr

ffmpeg_recorder_audio

1.4 kB

Program

3 Apr

ffmpeg_recorder_web

1.6 kB

Program

3 Apr

field.zip

492.0 MB

Archive

29 Apr

google-chrome-stable_current_amd64.deb

116.5 MB

Archive

17:02

grace.zip

337.2 MB

Archive

15 Apr

Hurricane Season - 2024-20250501T152624Z-1-001.zip

703.0 MB

Archive

1 May

labels.txt

182.0 kB

Text

Thu

playlist.sos

410 bytes

Text

1 May

playlist (1).sos

506 bytes

Text

8 May

playlist (2).sos

557 bytes

Text

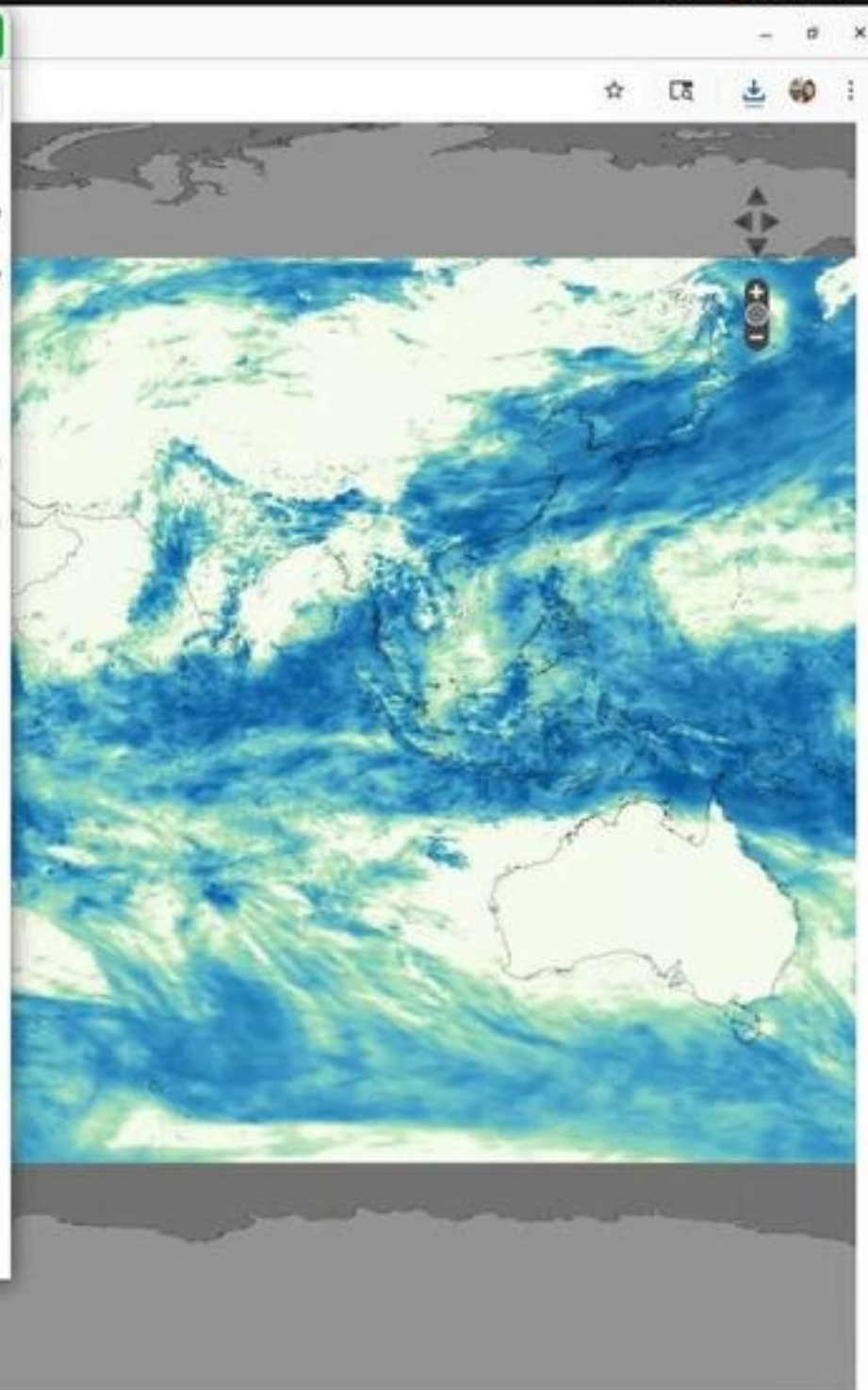
Thu

tempanom_2024-20250403T152137Z-001.zip

1.3 GB

Archive

3 Apr



NOAA SOS Visual Playlist Editor Version: 6.0.3

File Presentation Dataset Help

New Open... Save

About Global Animation Description

Name (required)
Pi Day Pie

Major category

Sub category

Keywords

Creator

Publisher

URL

Select dataset thumbnail



Remove

Mode Presentation Dataset

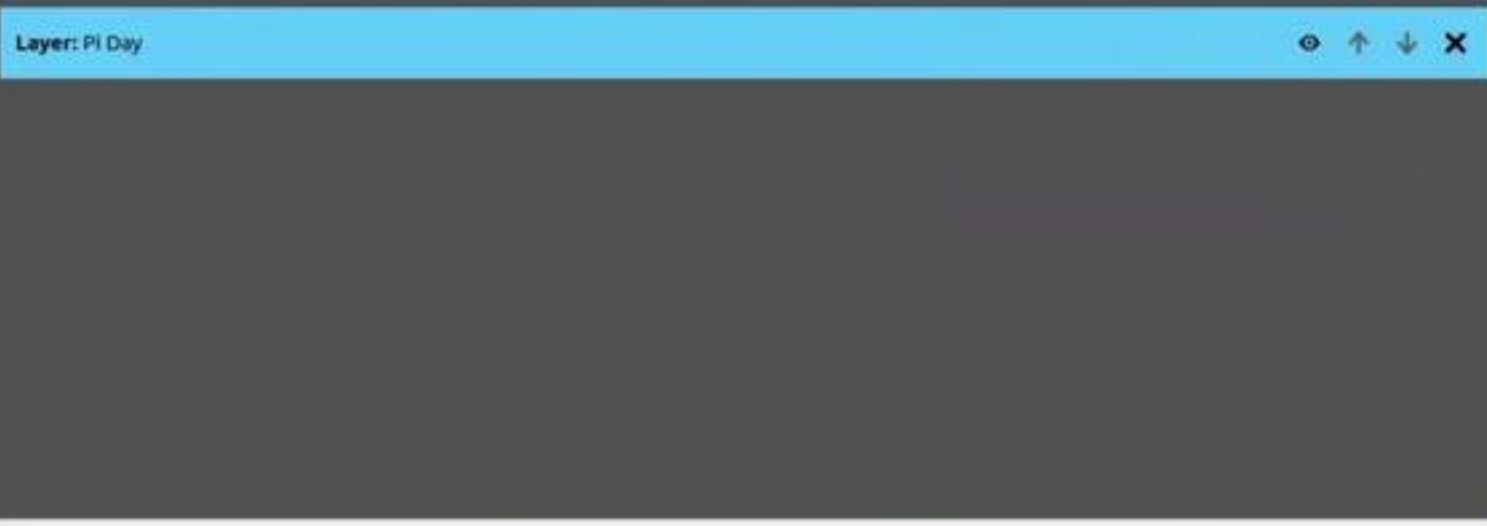


Add Layer PIP Label Caption Audio



Time (seconds) Frame #

Layer: Pi Day



Dataset: /shared/sos/media/temporary/pi_day_2023/playlist.sos



config

land_temp_2048_20250328.png

land_temp_2048_20250319.png

AIN, weekly, 519.c...

data

data.pub

SOS Utilities

SOS

Start SOS

SOS Visual Playlist Editor

SOS Projector Control

Home

File Presentation Dataset Help

New Open... Save

Mode Presentation Dataset

About Global Animation Description

Dataset Information (read-only)

Pi Day Pie

No Description Available.

Details

- Playlist: /shared/sos/media/temporary/pi_day_2023/playlist.sos

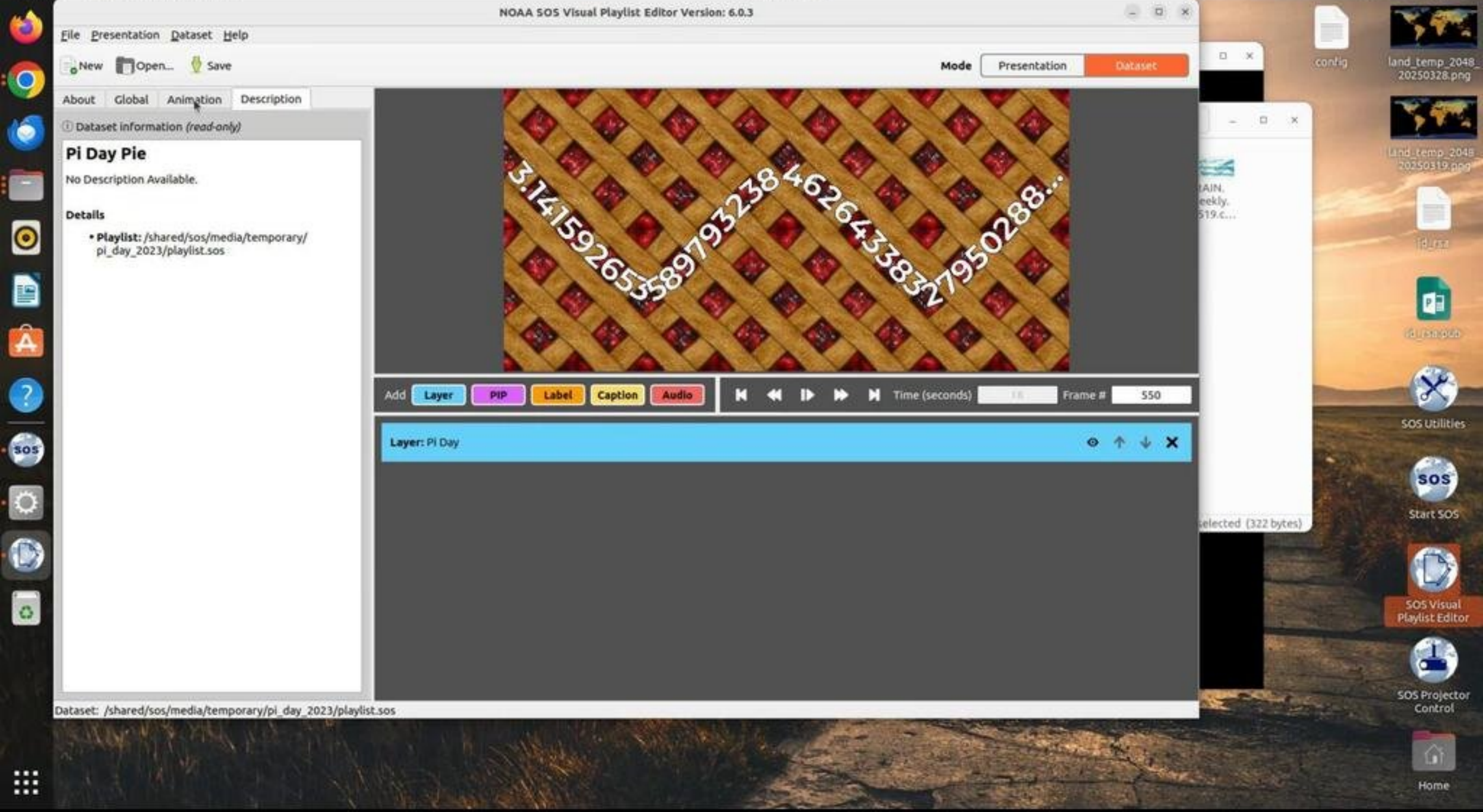


Add Layer PIP Label Caption Audio Time (seconds) 1.6 Frame # 550

Layer: Pi Day

selected (322 bytes)

Dataset: /shared/sos/media/temporary/pi_day_2023/playlist.sos



File Presentation Dataset Help

New Open... Save

Mode Presentation Dataset

About Global Animation Description

Dataset Information (read-only)

Pi Day Pie

No Description Available.

Details

• Playlist: /shared/sos/media/temporary/pi_day_2023/playlist.sos



Add Layer PIP Label

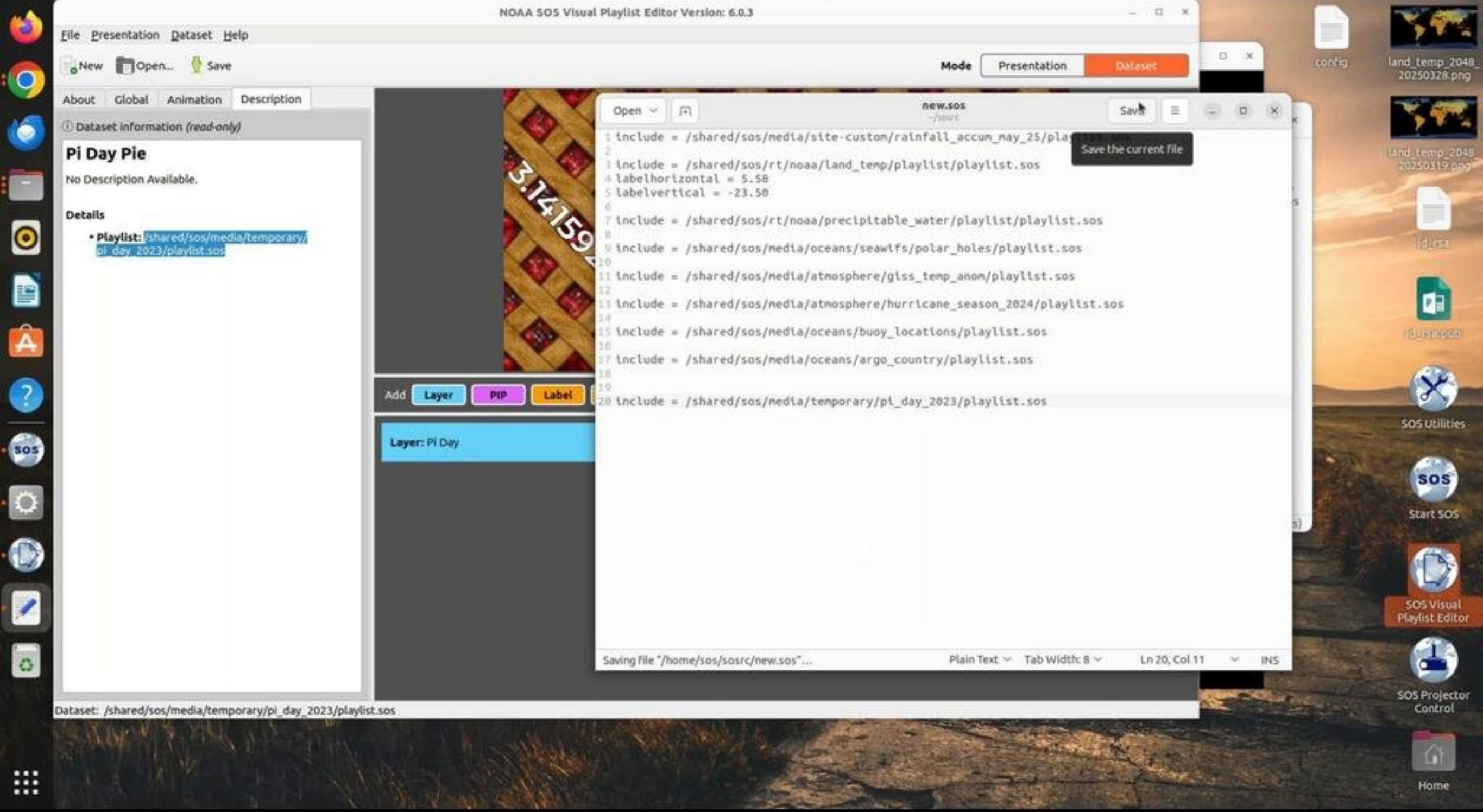
Layer: Pi Day

```
new.sos
~/src

1 include = /shared/sos/media/site-custom/rainfall_accum_may_25/pla
2
3 include = /shared/sos/rt/noaa/land_temp/playlist/playlist.sos
4 labelhorizontal = 5.58
5 labelvertical = -23.58
6
7 include = /shared/sos/rt/noaa/precipitable_water/playlist/playlist.sos
8
9 include = /shared/sos/media/oceans/seawifs/polar_holes/playlist.sos
10
11 include = /shared/sos/media/atmosphere/giss_temp_anom/playlist.sos
12
13 include = /shared/sos/media/atmosphere/hurricane_season_2024/playlist.sos
14
15 include = /shared/sos/media/oceans/buoy_locations/playlist.sos
16
17 include = /shared/sos/media/oceans/argo_country/playlist.sos
18
19
20 include = /shared/sos/media/temporary/pi_day_2023/playlist.sos
```

Save the current file

Dataset: /shared/sos/media/temporary/pi_day_2023/playlist.sos



File Presentation Dataset Help

New Open... Save

Mode Presentation Dataset

About Global Animation Description

Dataset Information (read-only)

Pi Day Pie

No Description Available.

Details

• Playlist: /shared/sos/media/temporary/
pi_day_2023/playlist.sos



Add Layer PIP Label Caption Audio

Layer: Pi Day

Dataset: /shared/sos/media/temporary/pi_day_2023/playlist.sos

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- Other Locations

library

grace-dynamic.sos

grace-static.sos

mini-demo.sos

new.sos

normal-demo.sos

realtime-demo.sos

"new.sos" selected (659 bytes)

config

land_temp_2048_20250328.png

land_temp_2048_20250319.png

ldrsa

ldrsa.pub

SOS Utilities

SOS

Start SOS

SOS Visual Playlist Editor

SOS Projector Control

Home

File Presentation Dataset Help

New Open... Save

Mode Presentation Dataset

About Global Animation Description

Dataset Information (read-only)

Pi Day Pie

No Description Available.

Details

- Playlist: /shared/sos/media/temporary/pi_day_2023/playlist.sos



Add Layer PIP Label Caption Audio Time (seconds) 123 Frame # 112

Layer: Pi Day

selected (659 bytes)

Dataset: /shared/sos/media/temporary/pi_day_2023/playlist.sos

Desktop environment showing various files and applications:

- Files: config, land_temp_2048_20250328.png, land_temp_2048_20250319.png, normal-demo.sos, 18.m3u, 01usepub, SOS Utilities, SOS, Start SOS, SOS Visual Playlist Editor, SOS Projector Control, Home.
- Applications: SOS Visual Playlist Editor, SOS Projector Control, SOS Utilities, SOS, Start SOS, SOS Visual Playlist Editor, SOS Projector Control, Home.

File Presentation Dataset Help

New Open... Save

Mode Presentation Dataset

About Global Animation Description

Name (required)

Pandemic and Air Quality: Travel Impacts

Major category

Live Programs

Sub category

Keywords

Creator

Publisher

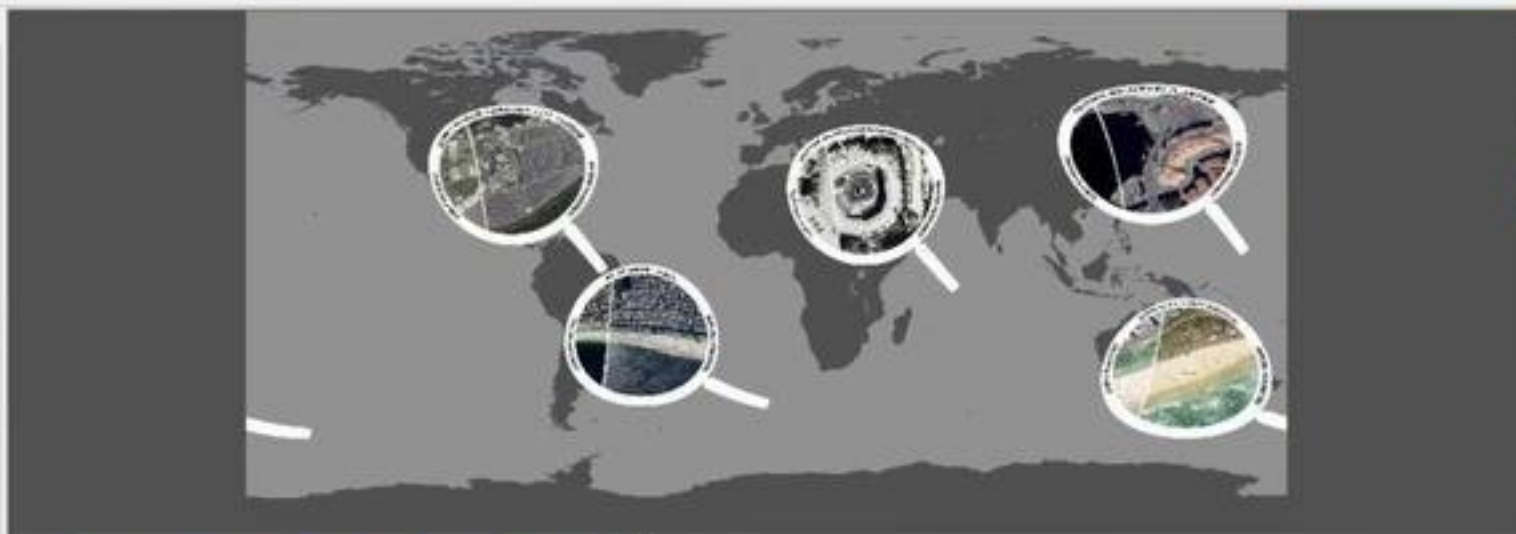
URL

<http://sos.noaa.gov/Datasets/dataset.php?id=742>

Select dataset thumbnail



Remove



Add Layer PIP Label Caption Audio Time (seconds) Frame # 545

Layer: travel_impacts.mp4

Dataset: /shared/sos/media/extras/live_programs/pandemic_story/travel_impacts/playlist.sos

Desktop environment showing various files and applications:

- Files: config, land_temp_2048_20250328.png, land_temp_2048_20250319.png, normal-demo.sos, id_rsa, id_rsa.pub
- Applications: SOS Utilities, SOS, Start SOS, SOS Visual Playlist Editor, SOS Projector Control, Home

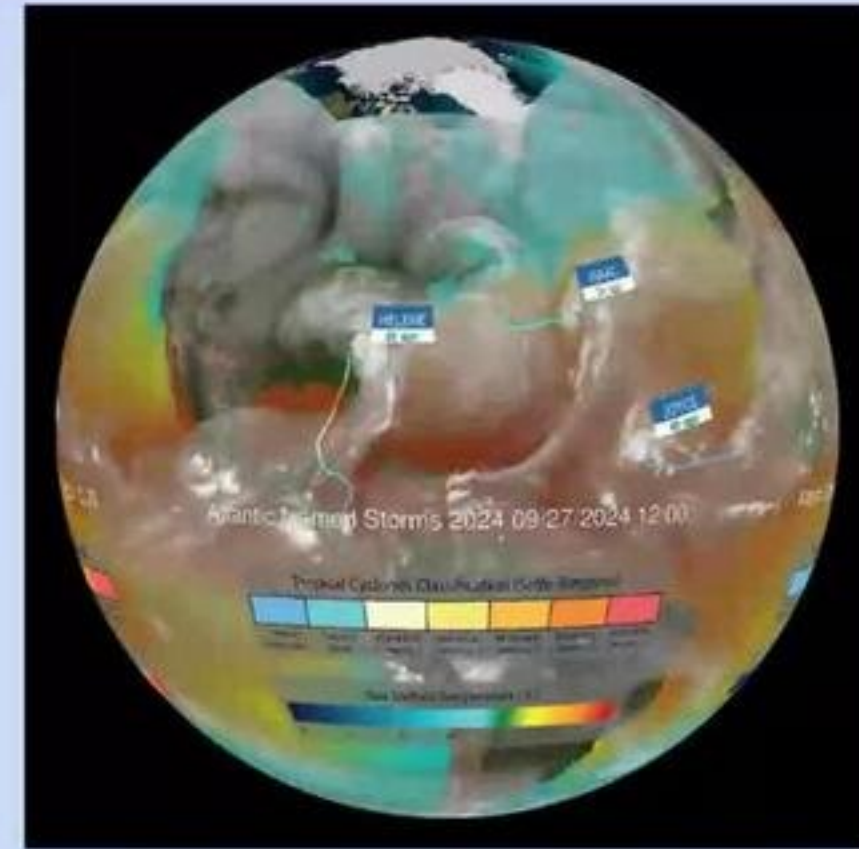
Mentimeter Polling

<https://www.menti.com/alzmz9ribny3>

OR

Menti.com code: 2333 3672

What's useful to you from today and what do you want more of in Ed Forums?



Which of the recent SOS dataset updates or training features are you most excited to explore use in your programming? Select all that apply.

