

NASA Worldview

USFS – NASA Joint Applications Workshop, 30 April – 2 May 2019 Presented by Paul Moth







National Snow and Ice Data Center



manages and distributes scientific data



researches the cryosphere and data science



supports data users



supports local and Traditional Knowledge



provides tools for data users



informs the public about the cyrosphere

Affiliations

Sponsors







Cooperative Institute for Research in Environmental Science





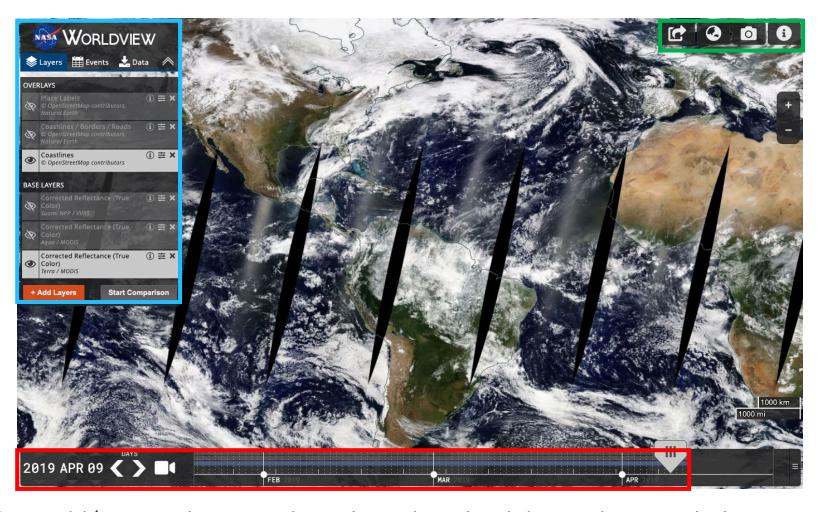


NASA Worldview - Overview

- https://worldview.earthdata.nasa.gov/
- Uses Global Imagery Browse Services (GIBS)
- Interactively browse 800+ imagery layers within hours of observation
- Download underlying data
- Add base layers and overlays to create animations and visualizations with data
- Share map links on social media
- View science related events and the underlying related data



NASA Worldview - Overview

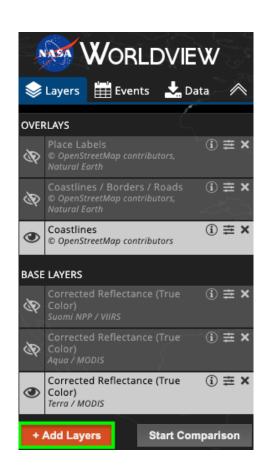


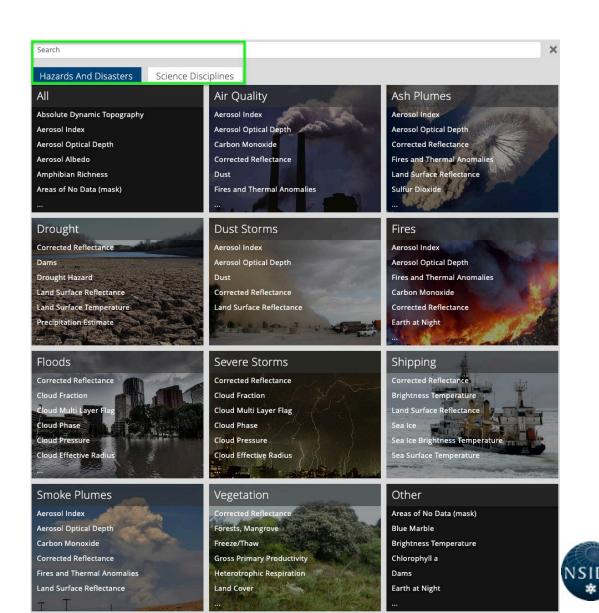
Blue: Add/remove layers and overlays, download data, adjust symbology, view Earth events, read about data, and compare data (swiping, etc.)

Red: View temporal coverage of data, toggle dates, and create animations **Green:** Share on social media, change projection, and download snapshots

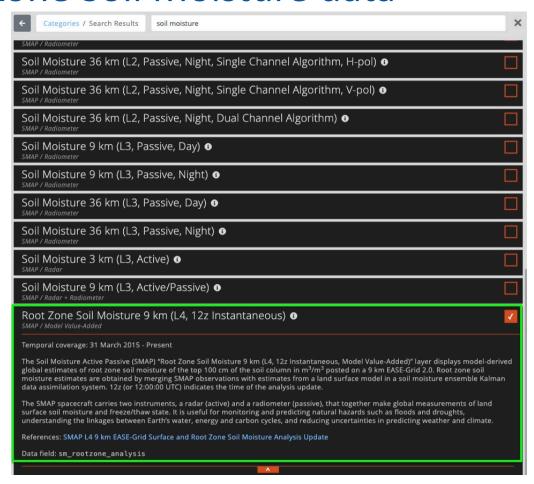


NASA Worldview - Search for data





NASA Worldview - Search for and add SMAP Level-4 9km Root Zone Soil Moisture data



- Search soil moisture
- Add other parameter layers to visualize multiple parameters at once
- Click on the i button to learn about the data set, temporal coverage, and links to the data set web page



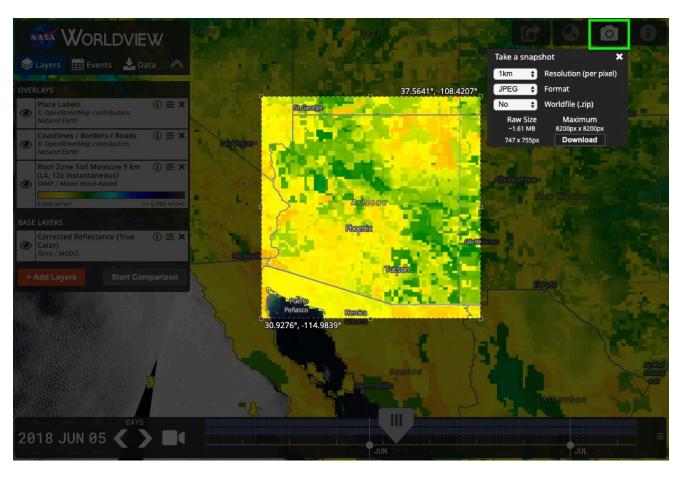
NASA Worldview – Visualize soil moisture



- Turn on Place Labels and Coastlines and place on top of SMAP data
- Toggle through dates to view time series
- Zoom into area of interest
- Change symbology and opacity of data layers
- Hover over a pixel to view data value in legend



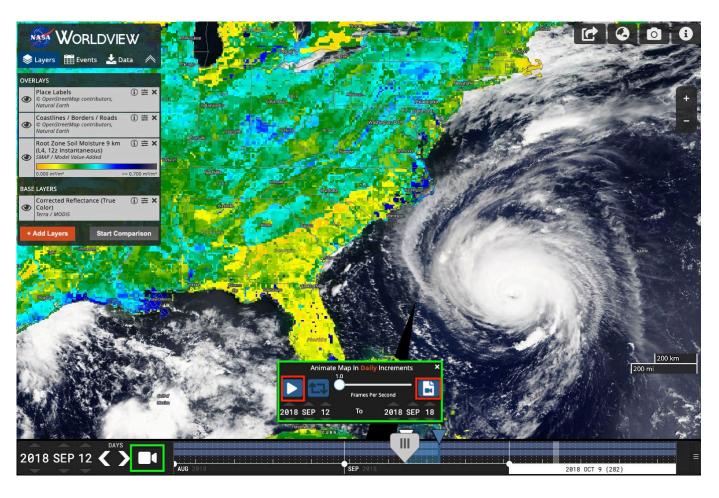
NASA Worldview – Soil moisture snapshot



- Click on the camera icon
- Adjust the pixel download resolution
- Change to desired format (GeoTIFF, JPEG, KMZ, and PNG)
- Choose .zip file or not
- Click Download



NASA Worldview – GIF for Hurricane Florence



- Click on the video camera icon
- Adjust dates to include in animation
- Click to view the animation
- Click to create a .GIF



NASA Worldview – GIF for Hurricane Florence

