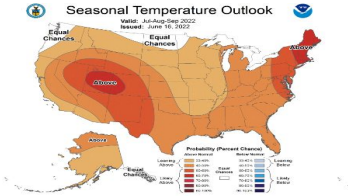
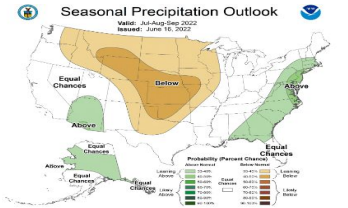
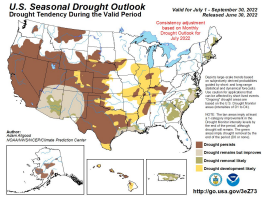
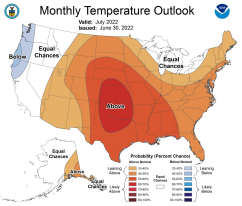
National Weather Service (NWS) - Fire Weather

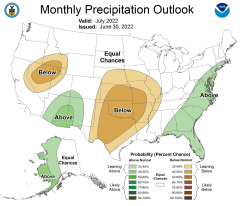
NWS Seamless Suite of Excessive Heat and Fire Weather Predictions from Climate to Weather Timescales

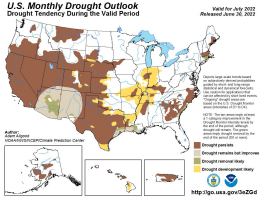


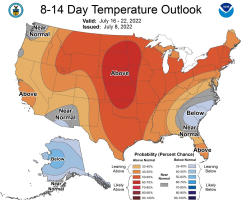


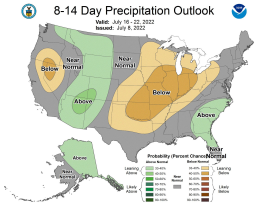


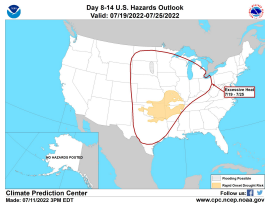


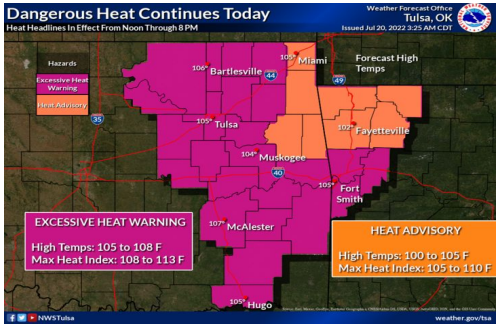


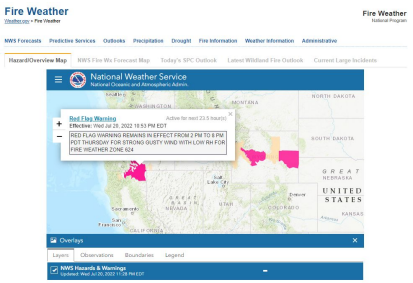












CPC Seasonal Outlooks

CPC Monthly Outlooks

CPC Week- Two Temp, Precip, and Hazard Outlooks

Fire Weather Watches and Red Flag Warnings

Predictive Services Partnerships

Using NOAA CPC/long range forecast information, the Fire Agencies' Predictive Services Program provides monthly to seasonal Fire Potential Outlooks - geared to toward resource allocation.

PREDICTIVE SERVICES

OUTLOOKS

National Significant Wildland Fire Potential Outlook

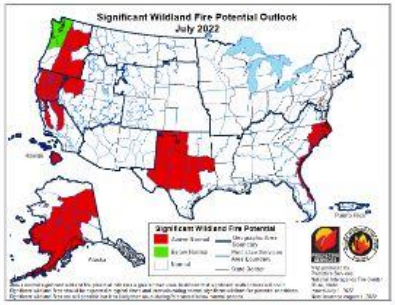
The outlook identifies areas by month for the next four months with above, below, and near normal significant fire potential.

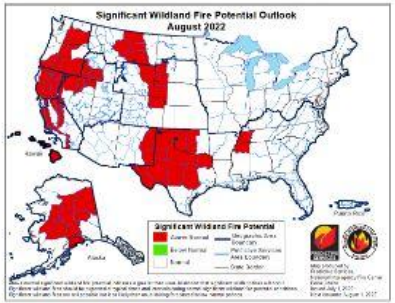
The main objectives of the National Significant Wildland Fire Potential Outlooks are to improve information available to fire management decision makers. These assessments are designed to inform decision makers for proactive wildland fire management, thus better protecting lives and property, reducing firefighting costs and improving firefighting efficiency.

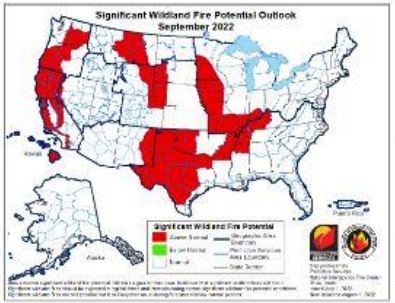
The following maps represent the cumulative forecasts of the eleven Geographic Area Predictive Services Units and the National Predictive Services Unit.

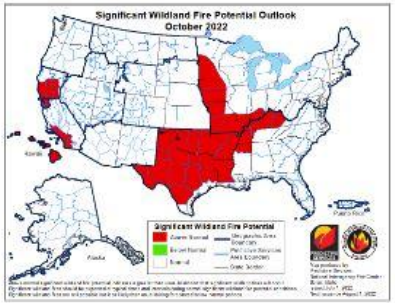
The entire text document can be found at the following link, **National Wildland Significant Fire Potential Outlook.**

This product is updated on the first of each month or first work day of each month.





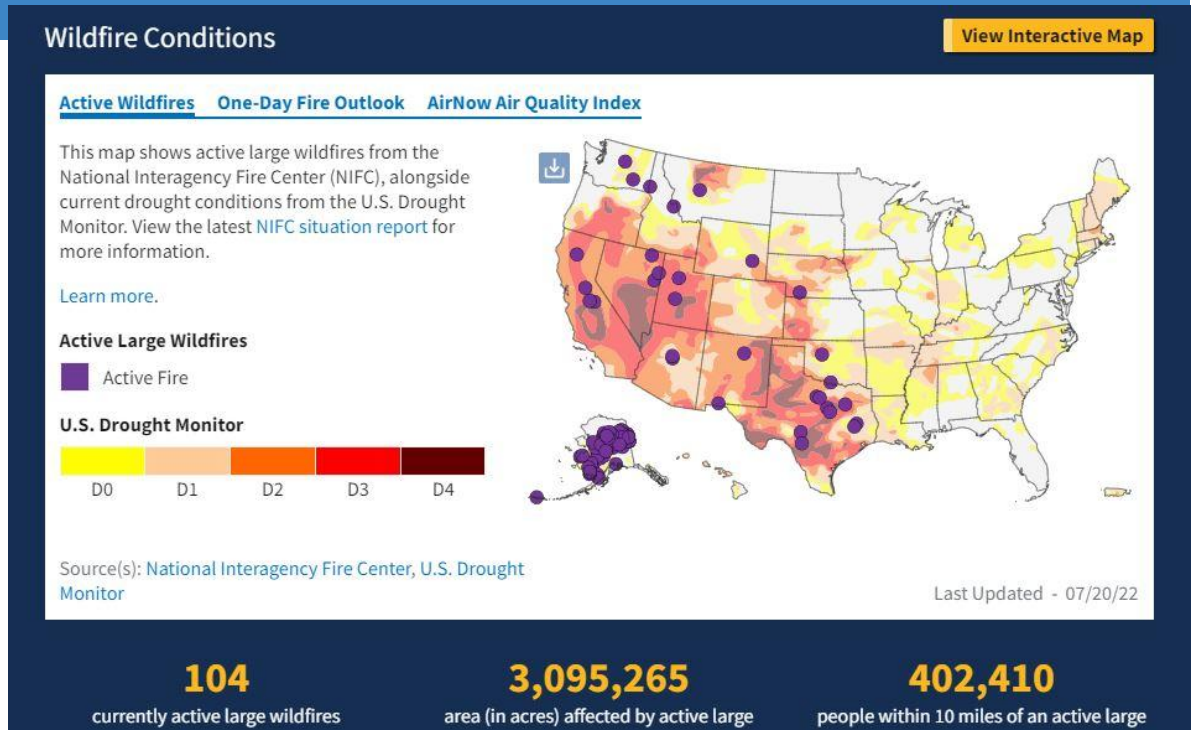




*Click on any graphic to access an enlarged version of the image

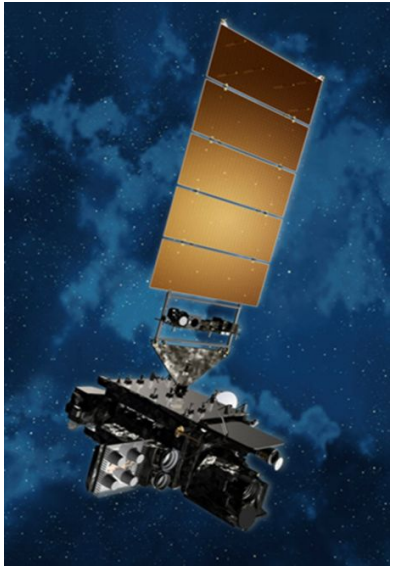
Drought is Important, but does not = Fire

Drought stresses fuels and creates a burning "stage", but drought does not directly "predict" that there will be fires. Drought impacts planning, can lead to more extreme fire behavior, and impacts post-fire recovery.



NWS Fire Weather Focus is Operational

- NWS **provides one, two and 3-8 Day Outlooks**, 24/7
- Issues daily **fire weather forecasts**
- Is the authoritative source for **Spot Forecasts, Fire weather watches and Red Flag Warnings.**
- **Provides direct briefings and consultations to partners**
- **Issues National Fire Danger Rating System Forecasts.**
- Dispatches **Incident Meteorologists (IMETs) to fires.**



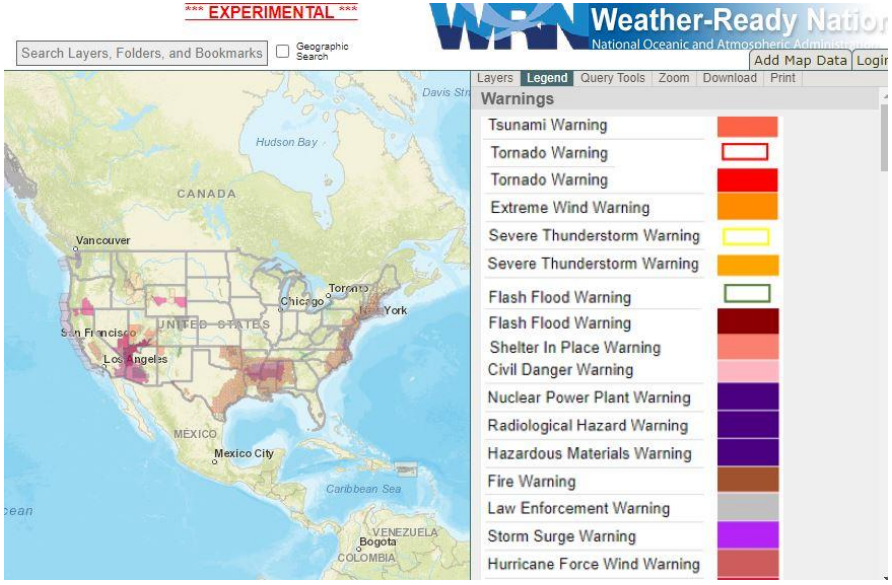
We leverage Model Data and NESDIS satellite information for our forecast suite.

Where to Find NWS Information

www.weather.gov/fire

spc.noaa.gov/products/fire_wx

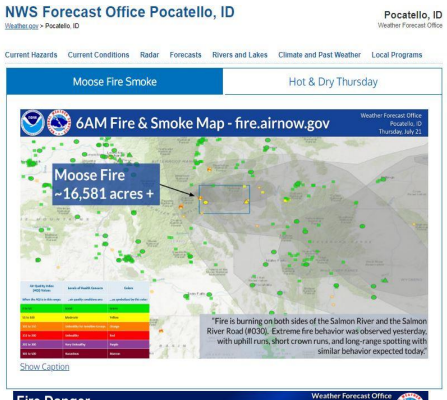
Where to Find NWS Information

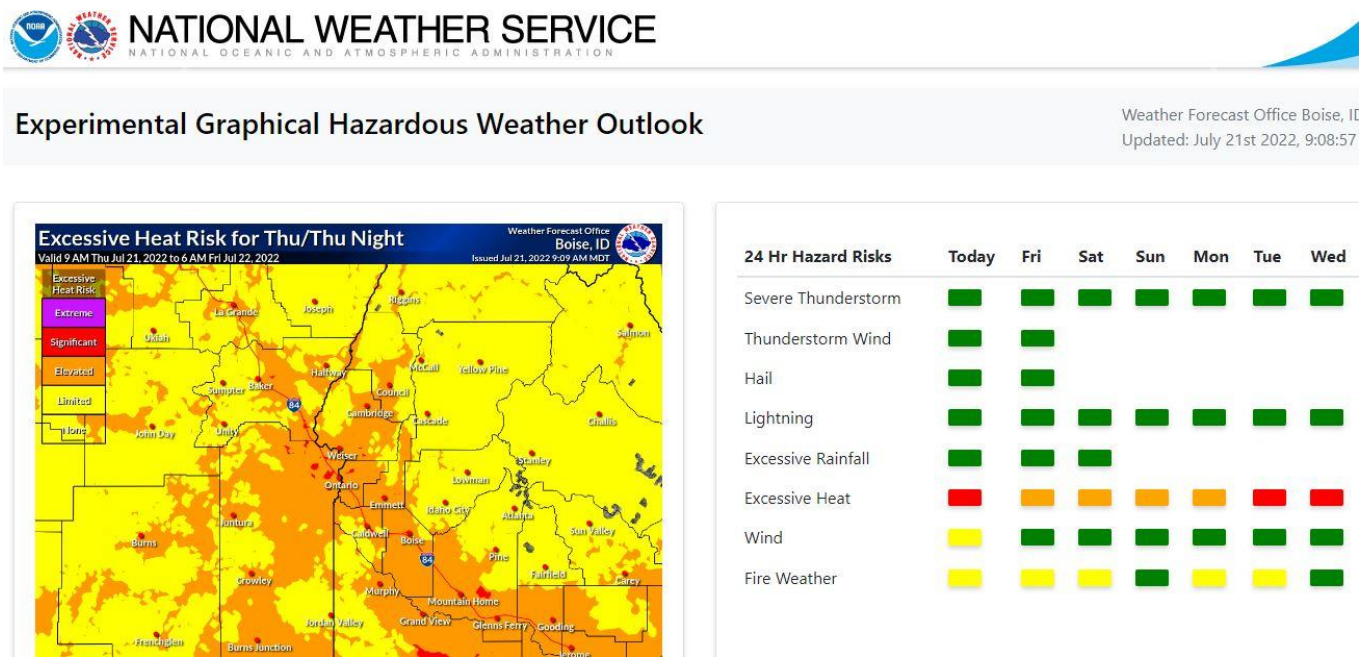


NWS GIS Viewer

Social Media (various sources)

Where to Find NWS Information

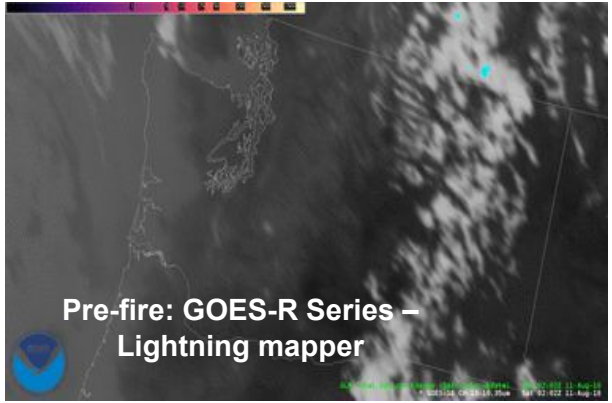


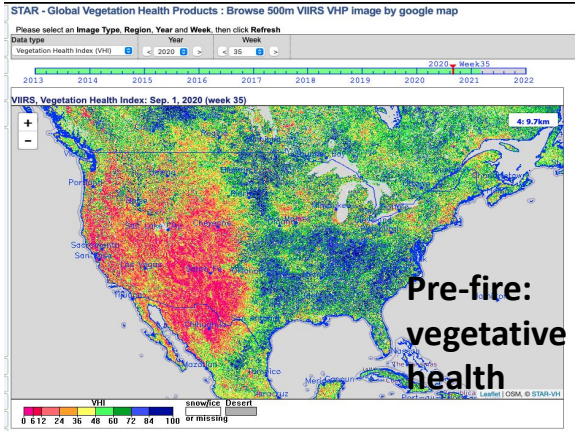


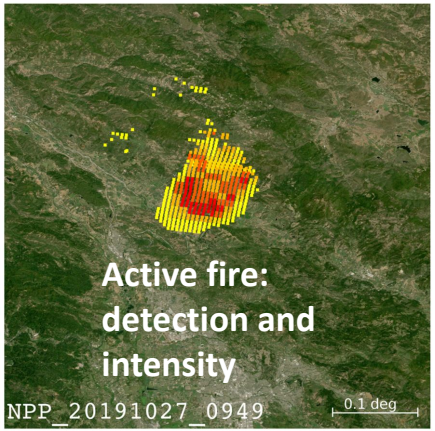
NWS Weather Graphics, Stories on NWS Websites

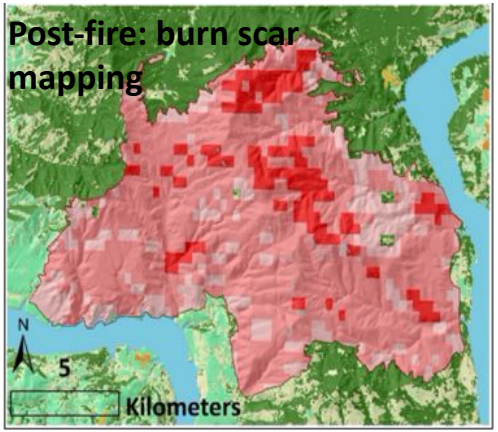
Graphical Hazard Weather Outlook

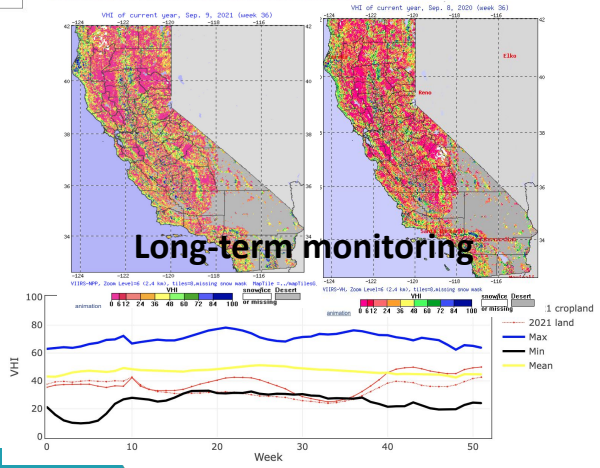
NOAA Satellites for Fire Information











Fire Information Needs of the Insurance Industry

- What Fire Environment products or information are you looking for that we have NOT presented?
- Are there any research questions that would help the insurance industry better incorporate the drought context?
- How can insurance products be developed and utilized to better build resilience to fire? Do you have incentives for actions to minimize fire risk?
- Would you be interested in having a smaller follow up discussion to inform the NWS Fire Program investments in support of the Insurance Industry?

Backup slides on Satellite Obs

NESDIS Operational Products for pre- and post-fire assessment

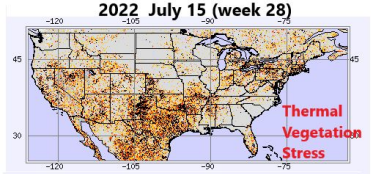
- Vegetation Health / Drought / Fire Risk (16 km, 4km, 1km)

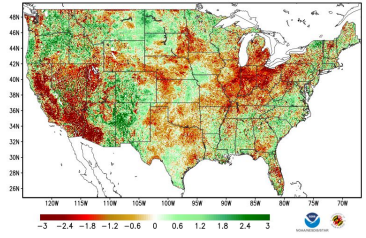
https://www.star.nesdis.noaa.gov/smcd/emb/vci/VH/index.php

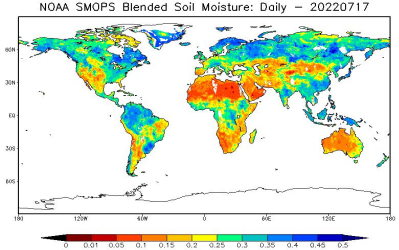
- Evapotranspiration (2km)

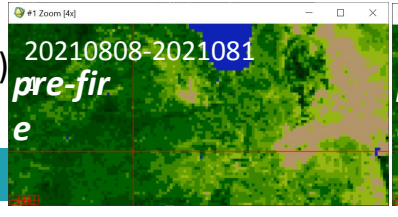
https://www.star.nesdis.noaa.gov/smcd/emb/droughtMon/products_droughtMon.php

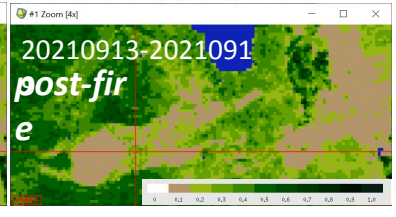
- Soil Moisture
  - NOAA Soil Moisture Products System (SMOPS; 0.25 x 0.25 degree grid)
    - near-real-time: https://www.ospo.noaa.gov/Products/land/smops/)
    - archive: NOAA CLASS - Soil Moisture Operational Product System (SMOPS) https://www.avl.class.noaa.gov/saa/products/welcome
- JPSS Land Environmental Data Records
  - Annual Land Cover / Surface Type (1km) https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C01472/html
  - Vegetation Indices, Land Surface Temperature (1km, 4km)
    - NOAA CLASS - JPSS VIIRS Products (Non-Granule)(JPSS_NGRN) https://www.avl.class.noaa.gov/saa/products/welcome



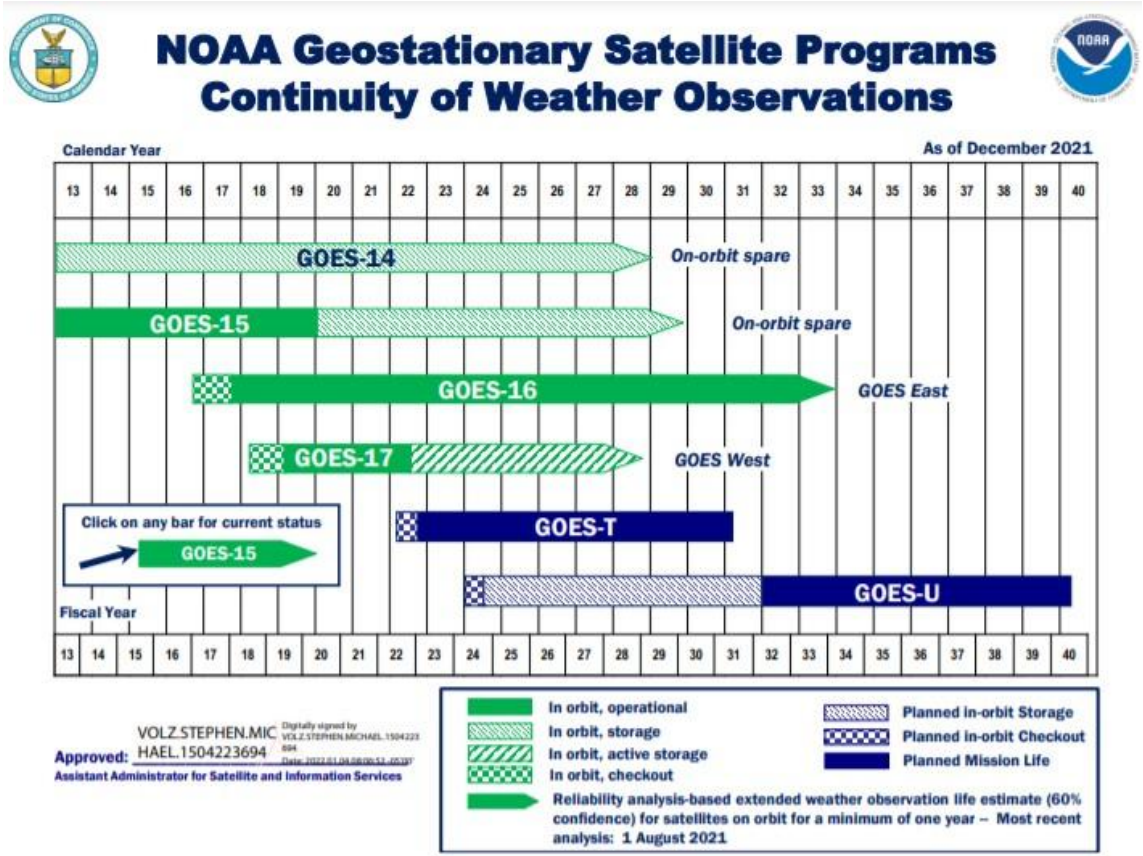








Continuity and Improvement in GEO Observations



The GOES-R series will lose on-orbit backup capacity by ~2030.

Replacement observations are needed by that time to maintain system performance and continuity, however, ...

Legacy system (Imagery & lightning detection) will not meet increased User and national mission needs.