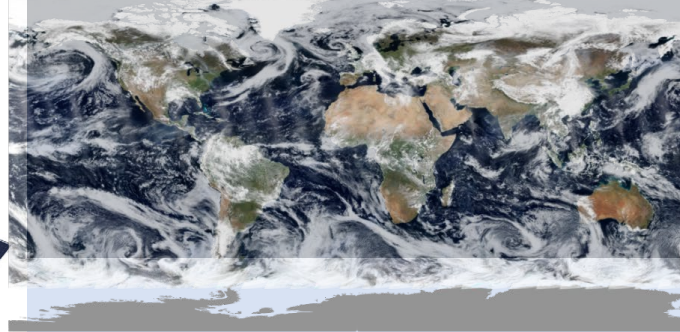
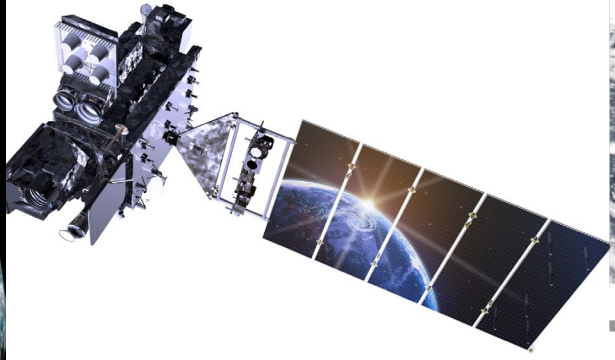


11 May 2023 17:00Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite



## Office of Satellite and Product Operations (OSPO)

### Satellite Products and Services

**National  
Environmental  
Satellite, Data, and  
Information Service  
(NESDIS)**

**December 2024**

**LCDR Jamie Rosenberg**

**- Satellite Products and Services Division**

# NOAA Observation System





# OSPO Satellite Data supports....

Support  
Fisheries  
Management



Space  
Weather  
Electric Grid  
Impacts



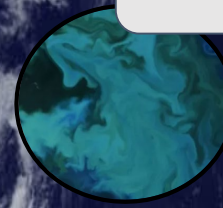
Support  
Aviation  
Warnings



Monitor  
Ice Cover



Monitor  
Photosynthetic  
Blooms



Detect  
Wildfires and  
Smoke



Detect &  
Track  
Atmospheric  
Rivers



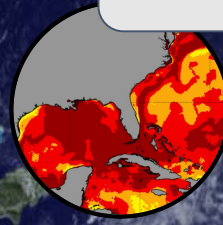
Support Flood  
Forecasting &  
Mapping



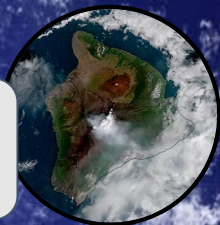
Support  
Agriculture  
Industry



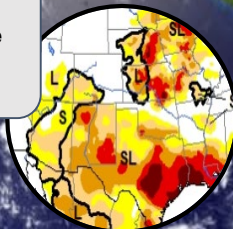
Detect & Monitor  
Coral Reef  
Bleaching



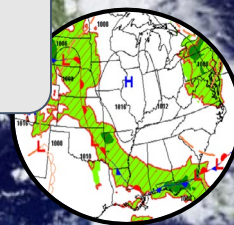
Detect Volcanic  
Ash



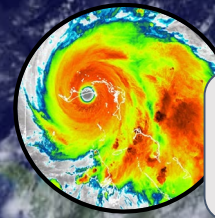
Detect Extreme  
Heat & Drought



Numerical  
Weather  
Prediction  
Models



Detect & Monitor  
Hurricanes



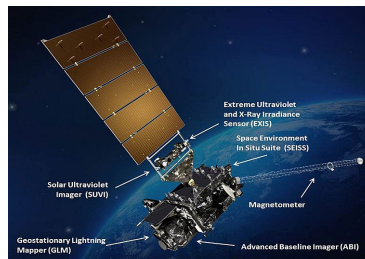
# NOAA Satellites Operate at Three Observation Viewpoints



## Low Earth Satellites

500 miles above Earth

- Joint Polar Satellite System (JPSS)
- QuickSounder
- Near Earth Orbit Network (NEON)
- Legacy POES satellites - NOAA-15,-18,-19 operated under POES Extension program



## Geostationary Satellites

22,000 miles above Earth

- GOES-R Series
- Geostationary Extended Observations (GeoXO)
- Legacy - GOES-14

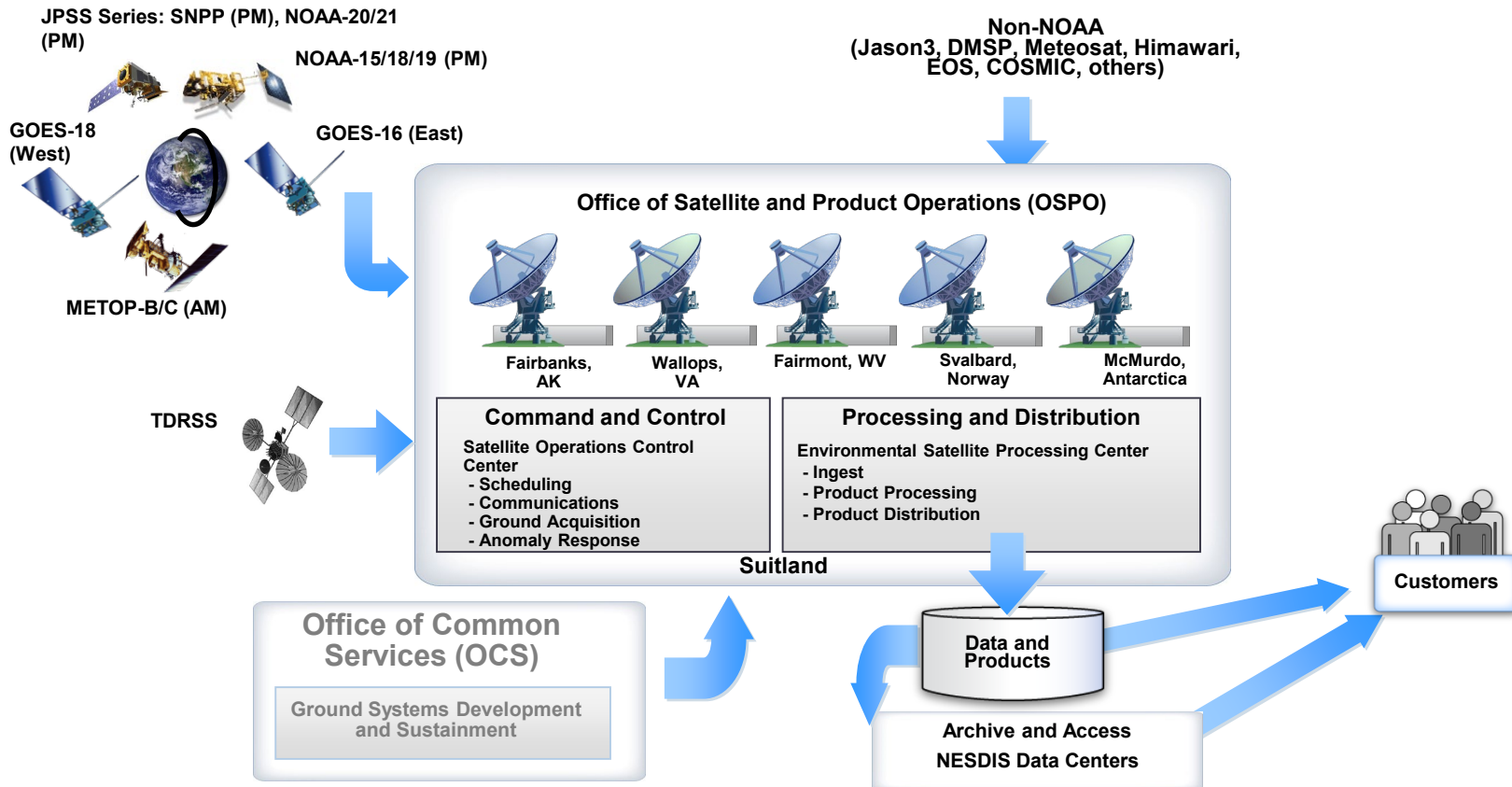


## Space Weather Satellites

L1: ~1 million miles from Earth and other observation points

- DSCOVR (NOAA)
- Space Weather Follow On
- Space Weather Next
- Legacy - Partner leveraged: ACE (NASA), SOHO (NASA/ESA)

# Satellite Data Operations Flow



# OSPO's Satellite Products and Services Division

## Satellite Products Branch

- Manages automated environmental products

## Satellite Analysis Branch

- 24x7 interpretive analyses of satellite data
  - Volcanic Ash
  - Tropical (Hurricane intensity & position)
  - Fire and Smoke
  - Marine Pollution (Oil and marine debris)

## Direct Services Branch

- Direct Broadcast (GRB, HRD, HRIT/EMWIN)
- GOES and Polar Data Collection Systems
- GEONETCast Americas
- COSPAS / SARSAT

