



NOAA 101

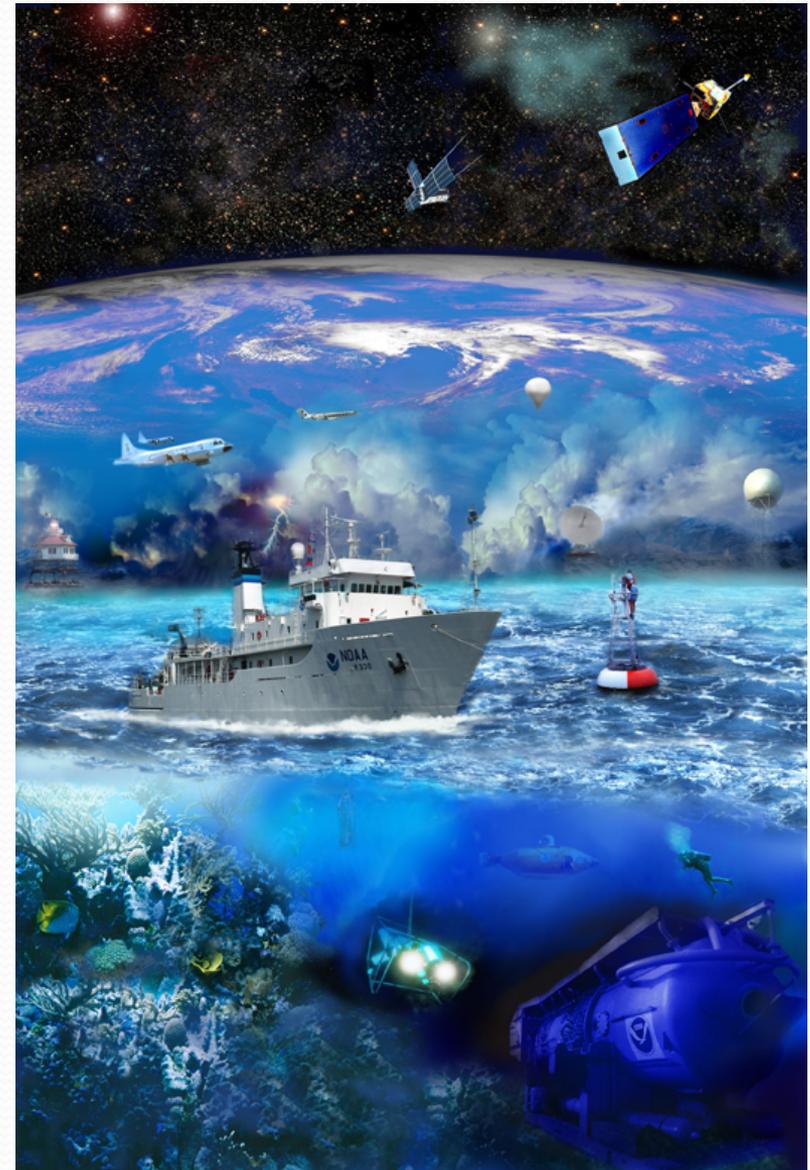
Dr. Kathryn Sullivan

Assistant Secretary of Commerce for Environmental Observation & Prediction
& NOAA Deputy Administrator



From The Surface Of The Sun To The Depths Of The Ocean Floor

NOAA is an agency that enriches life through science. Our reach from sun to seafloor helps to keep citizens informed of the changing environment around them.



Support transportation & commerce



Facilitate sustainable agriculture, fisheries, & aquaculture

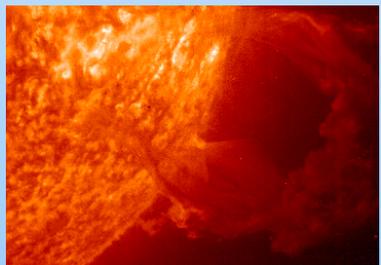


Protect life & property & create business opportunities

Assist communities & provide recreational opportunities



Safeguard communication & electric infrastructure



Inform renewable energy business decisions

2011 & 2012 EXTREME EVENTS



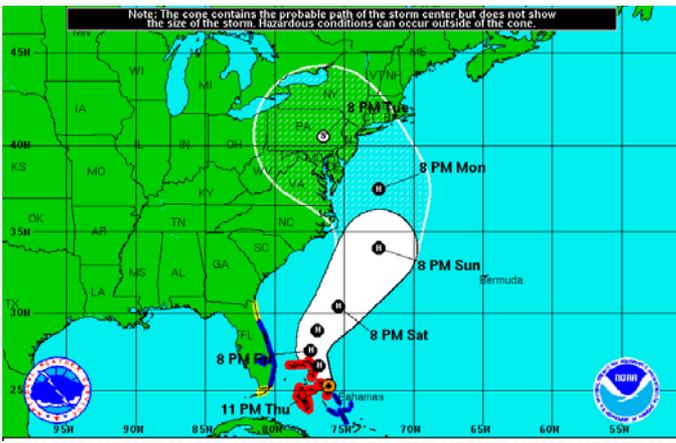
\$1B DISASTERS
 14 in 2011
 11 in 2012



One-NOAA approach = effective response

Crisis Response: Hurricane/Post-Tropical Cyclone Sandy (2012)

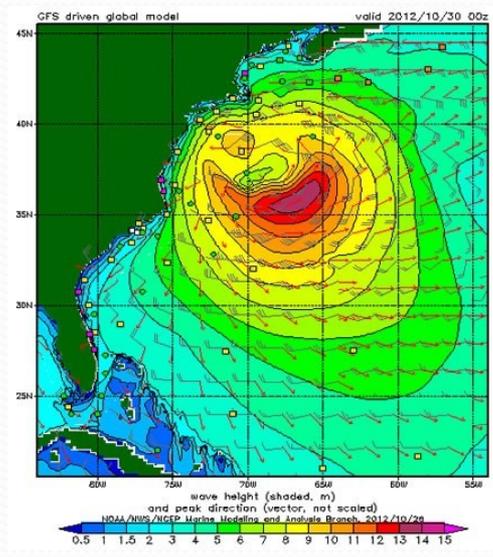
Hurricane Forecast Track



Hurricane Hunters

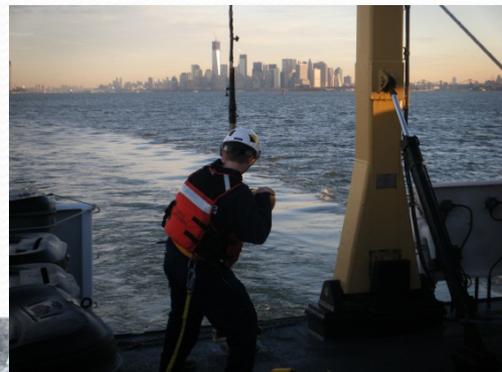


Storm Surge Model



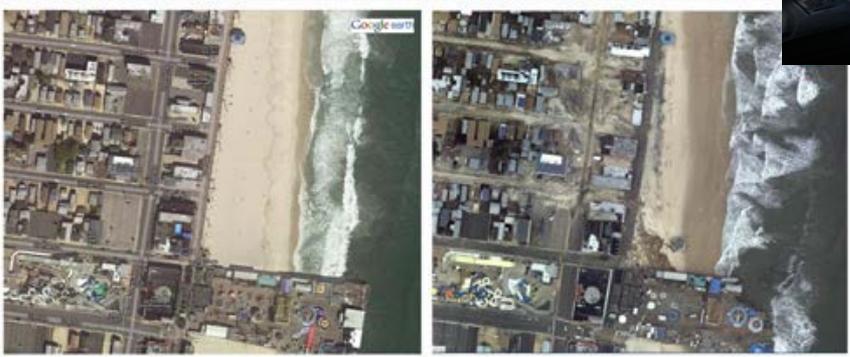
“NOAA’s detailed subsurface surveys were absolutely key to opening the port.” -CDR Linda Sturgis, Port Recovery Office, USCG Sector New York

NOAA Ship *Thomas Jefferson*



NOAA is able to put together the right pieces to address specific challenges.

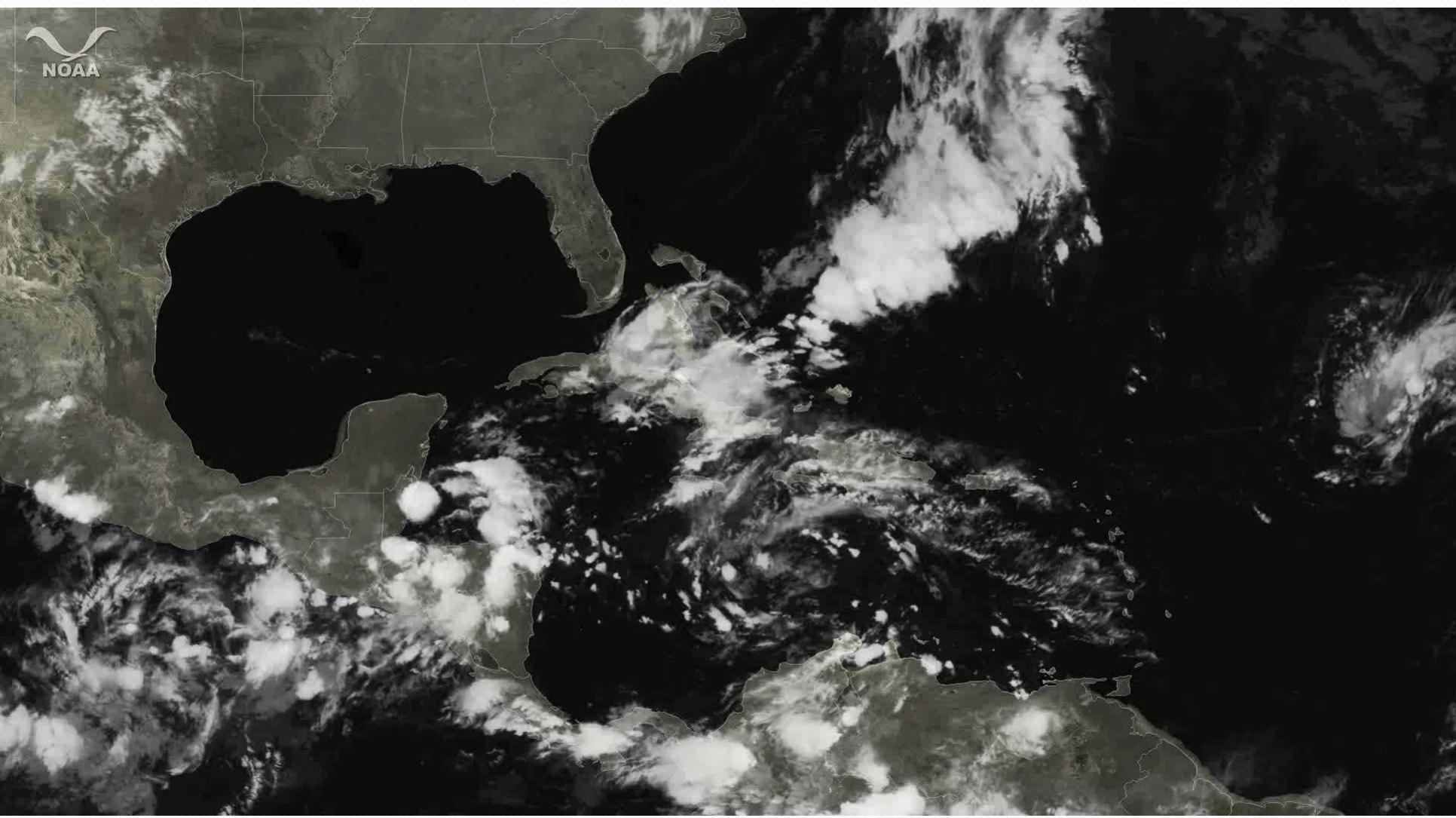
Damage Assessment Imagery



Navigation Response Teams



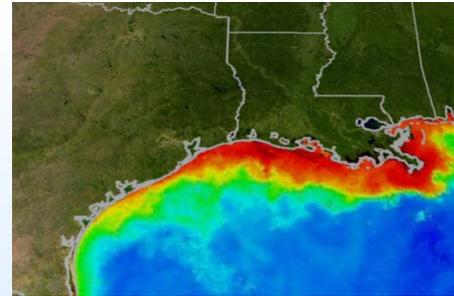
The value of the whole is greater than the sum of it's parts...



**Solid, Credible
Science**



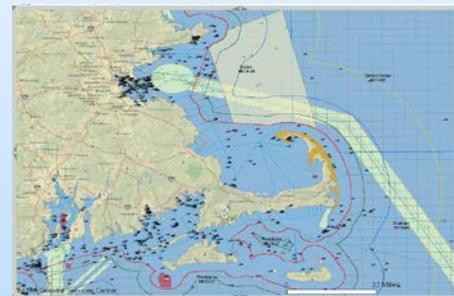
Healthy oceans



**Sustainable
seafood and jobs**



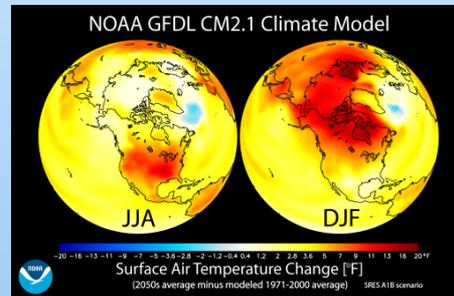
**Resilient coastal
communities &
economies**



**Weather Ready
Nation**



**Climate Information
& Decision Support**

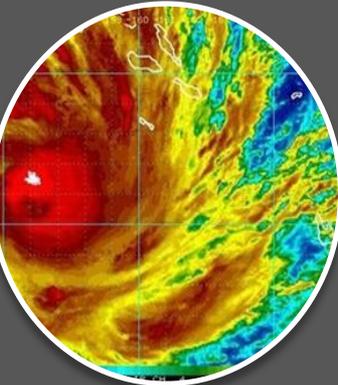




National Weather Service (NWS)



Oceanic and Atmospheric Research (OAR)



National Environmental, Satellite, Data, & Information Service (NESDIS)

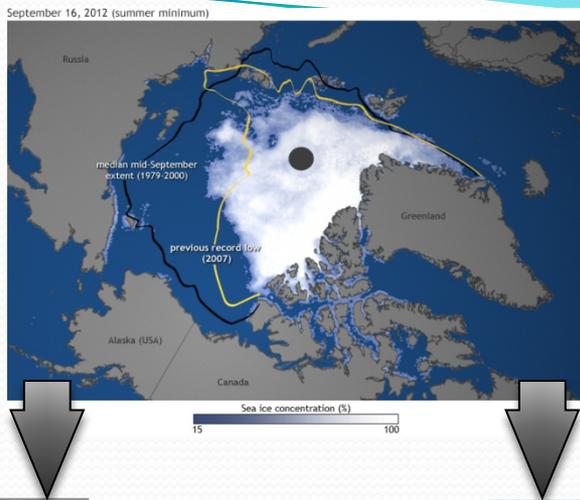


National Ocean Service (NOS)



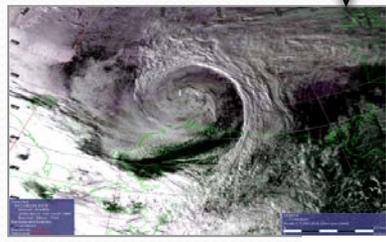
National Marine Fisheries Service (NMFS)





Forecast sea ice

Improve weather, ice & water forecasts



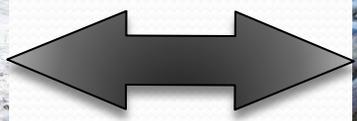
Detect & understand climate & ecosystem changes



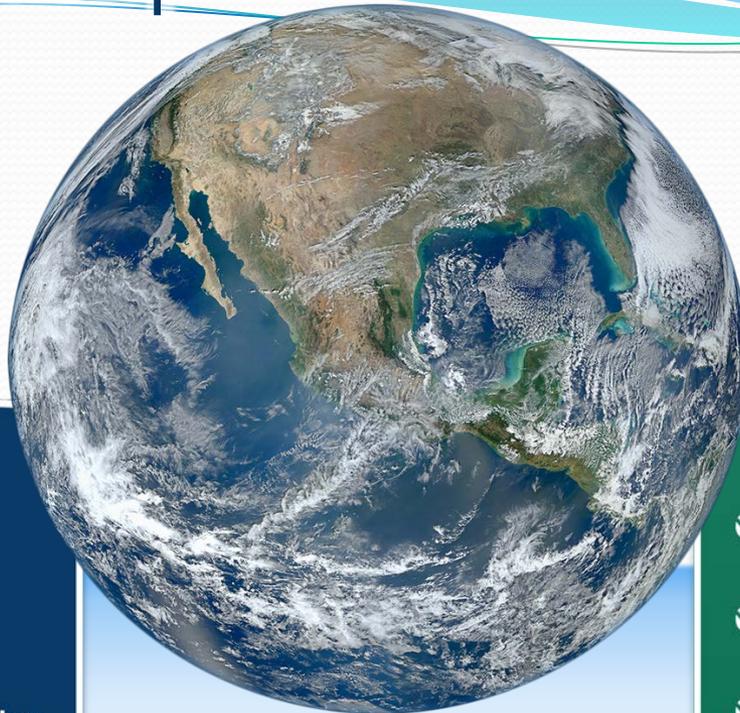
Enhance national & international partnerships



Advance resilient communities & emerging economic uses



Improve management of ocean resources



Scientific Cooperation

- ✔ Bilateral Science & Technology Agreements
- ✔ Arctic Marine Conservation
- ✔ Climate Observations & Monitoring

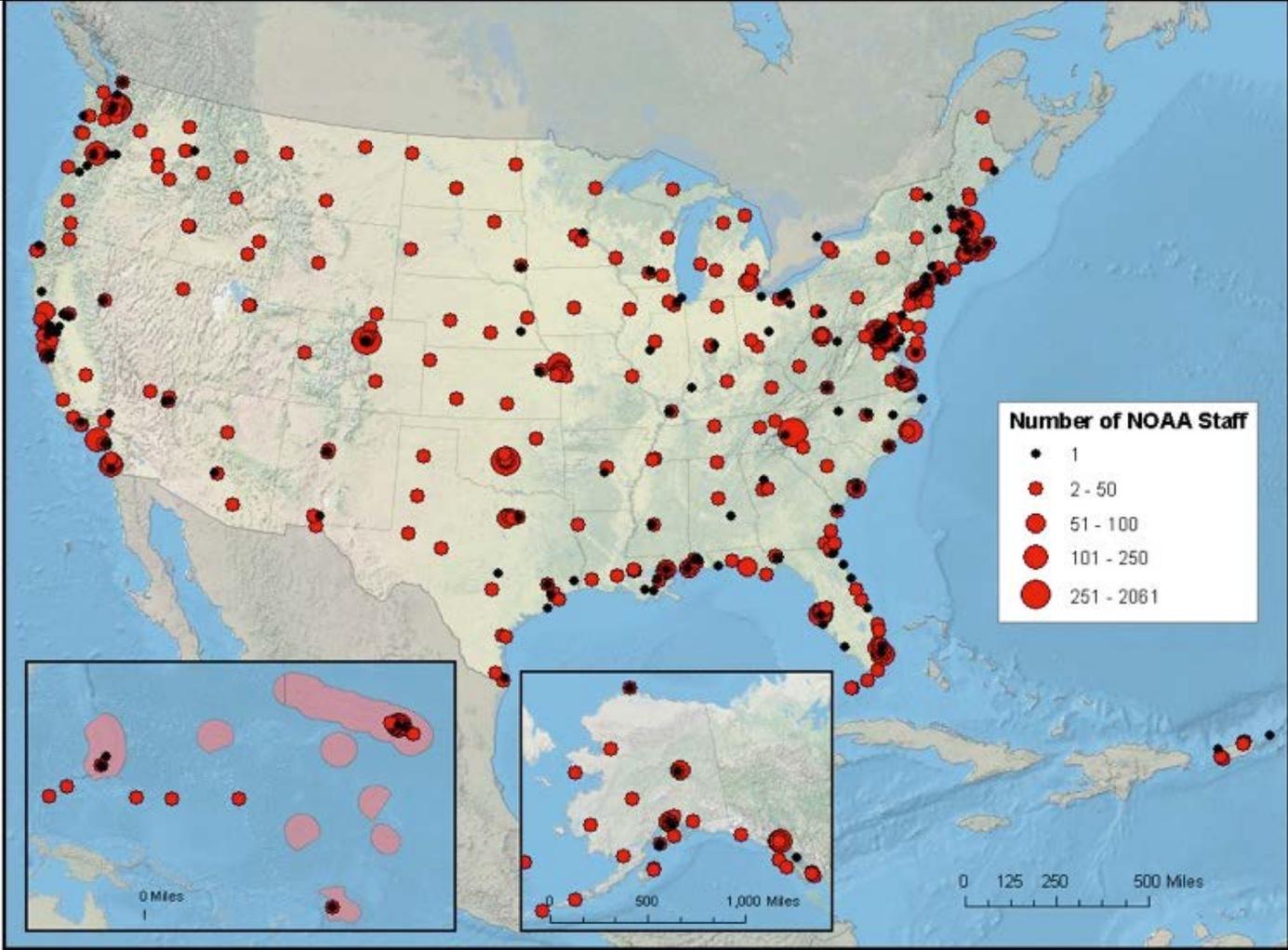
Tangible Partnerships

- ✔ Shared data & management for critical warning systems
- ✔ Ocean Acidification International Coordination Center
- ✔ Foreign Shared satellite systems
- ✔ Coral Triangle Initiative

International Agreements/Treaties

- ✔ Regional Fisheries Management Organizations
- ✔ Marine Conservation & Management
- ✔ Environmental Commitments In Trade Agreements
- ✔ Arctic Council
- ✔ World Meteorological Organization

NOAA's footprint is in every state & territory



For additional details on NOAA assets in your state, territory, or district, please visit: www.legislative.noaa.gov/NIYS/



NOAA's unique assets support our integrated mission

NOAA professionals

- ✓ 20,000 staff
- ✓ 12,500 FTE
- ✓ NOAA Corps – the Nation's 7th Uniformed Service
- ✓ 7,500 contractors
- ✓ 18 National Labs & Science Centers

High Performance Computing

- ✓ 5 supercomputers

Observing Systems

- ✓ ~125 weather radars
- ✓ 10 satellites
- ✓ 3 buoy networks
- ✓ 210 tide gages

Ships and Aircraft

- ✓ 17 ships
- ✓ 10 aircraft



Okeanos Explorer



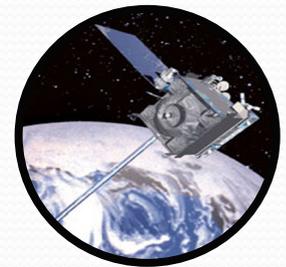
NOAA G4 and P3



NOAA Employee Operating AWIPS



TAO Buoy



GOES



*Highlights from the new Suomi
NPP Earth "at night" imagery*



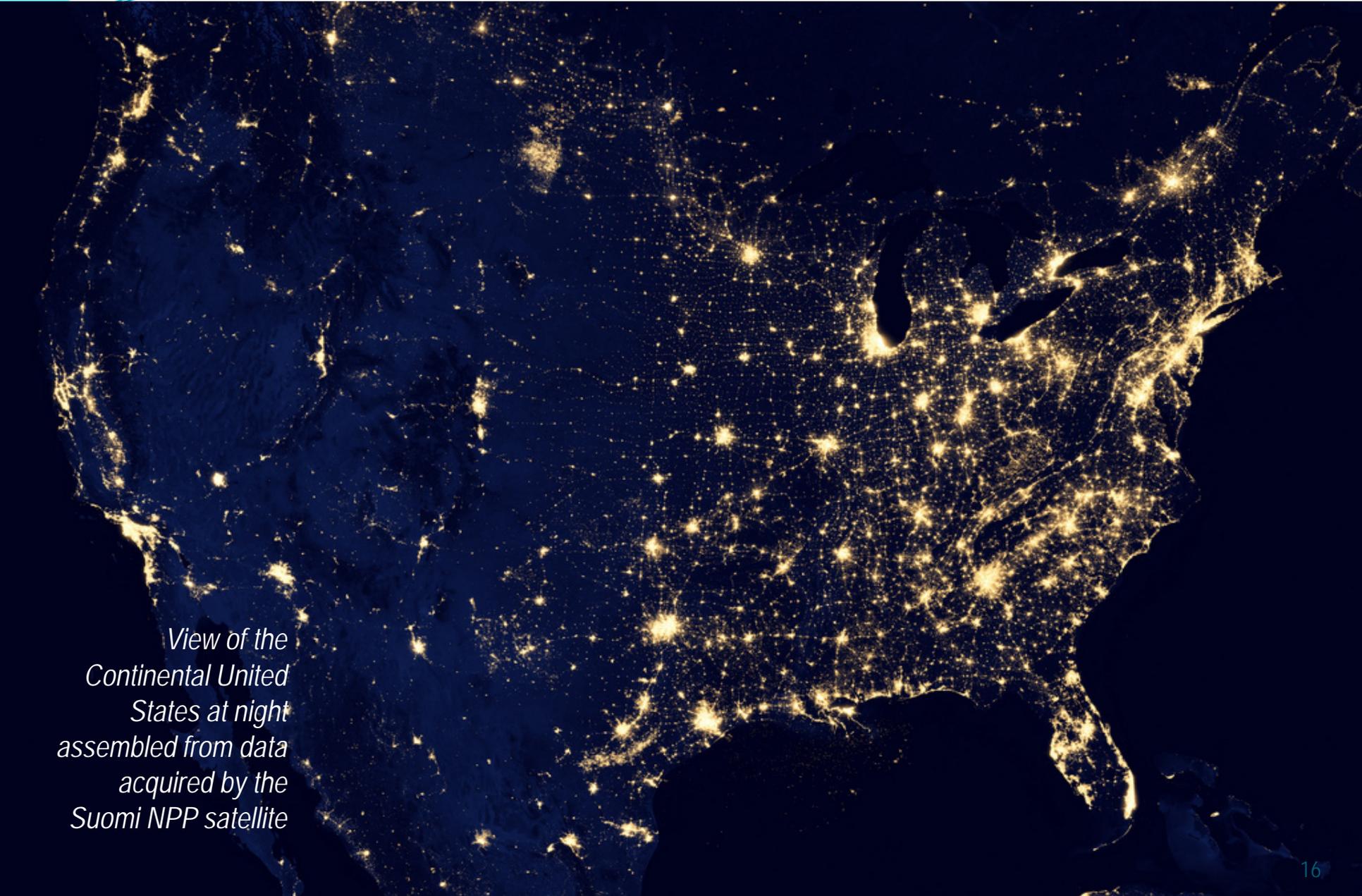
In A Nutshell...

NOAA is:

- ✔ A science based, interdisciplinary, integrated agency – leveraging diverse operational units and our high-tech assets to address the complex environmental issues facing the nation and global community
- ✔ A vital component of the Department of Commerce – helping to maximize U.S. competitiveness, enable economic growth, foster science and technological leadership, and promote environmental stewardship
- ✔ A leader for the future – a critical nexus within the Federal family



Questions?



*View of the
Continental United
States at night
assembled from data
acquired by the
Suomi NPP satellite*