

Committee on Earth Observation Satellites

GOES-R

America's Next-Generation Geostationary Weather Satellite

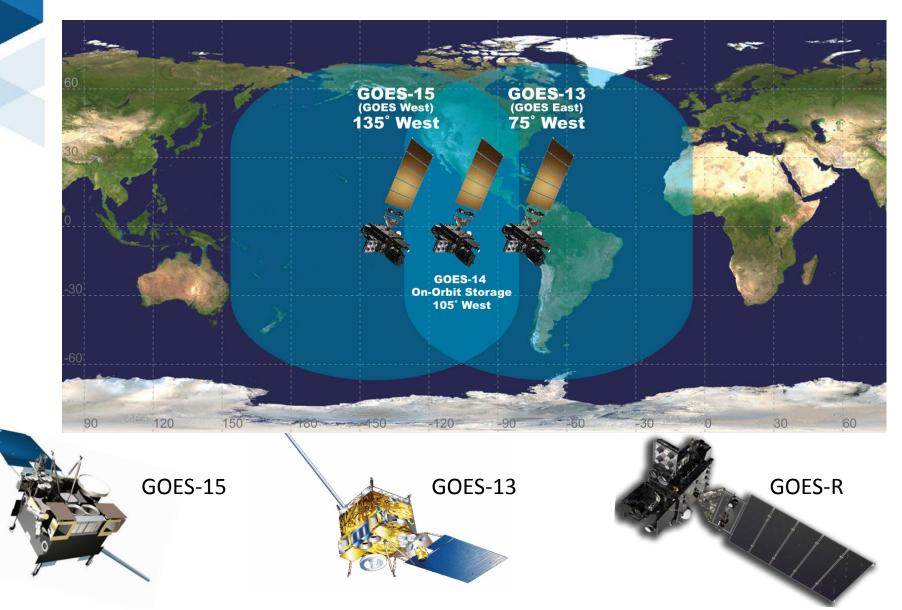
Charles Wooldridge NOAA **CEOS Plenary 2016** Agenda Item #9.1 Brisbane, Australia 1st – 2nd November 2016

GOES-R ROAD TO LAUNCH

- Flown from Colorado to Florida, August 22, 2016
- Currently in pre-launch preparations
- Launching from Cape Canaveral Air Force Station, Florida
- Lift-off is scheduled for 16 Nov 2016, 4:42 pm
- Will be carried to space aboard a United Launch Alliance Atlas V 541 rocket
- Will orbit 22,236 miles above Earth



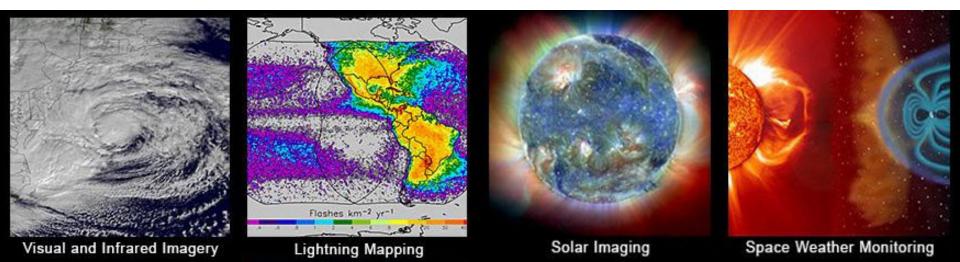
THE GOES FLEET CONFIGURATION

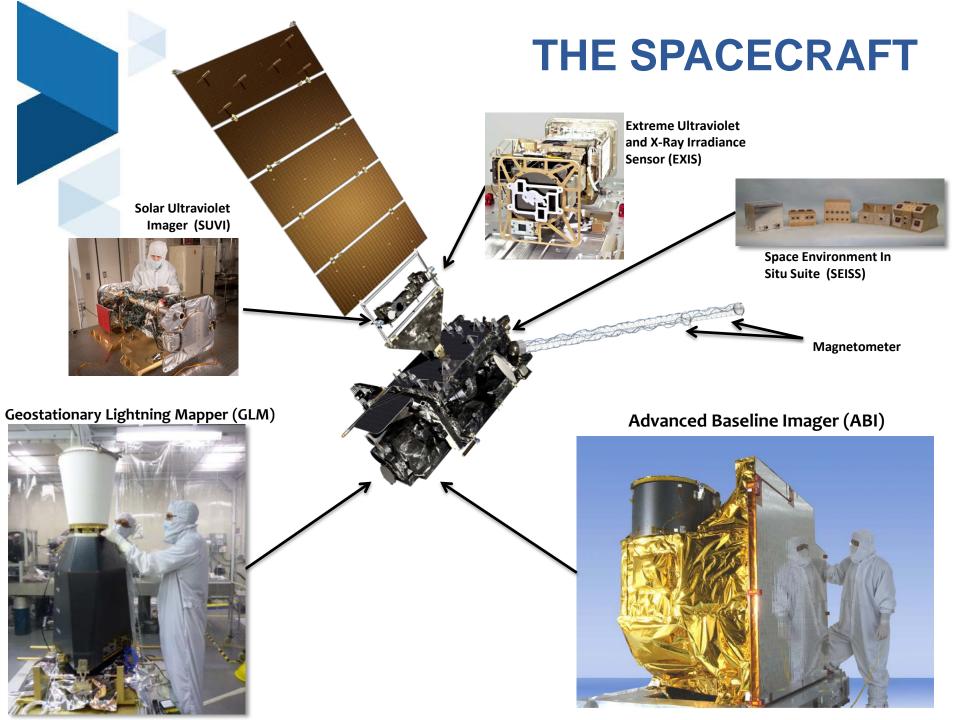


The GOES-R Mission

• GOES-R will provide:

- Continuous imagery and atmospheric measurements of Earth's Western Hemisphere in near real-time,
- o Total lightning data,
- And space weather monitoring.





WHY GOES-R IS A GAME CHANGER FOR NOAA:

- Improved hurricane track and intensity forecasts
- Increased thunderstorm and tornado warning lead time
- Improved aviation flight route planning
- > Improved air quality warnings
- Better data for long-term climate variability studies

- Better fire detection and intensity estimation
- Better detection of heavy rainfall and flash flooding risk
- Better monitoring of space weather to improve geomagnetic storm forecasting
- As well as, continued participation SARSAT rescues

And the list goes on!

3 TIMES MORE DATA 4 TIMES GREATER CLARITY 5 TIMES FASTER





Improves every product from current GOES Imager and will offer new products for severe weather forecasting, fire and smoke monitoring, volcanic ash advisories, and more.

4X BETTER RESOLUTION

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The GOES-R series of satellites will offer images with greater clarity and 4x better resolution than earlier GOES satellites.





Faster scans every 30 seconds of severe weather events and can scan the entire full disk of the Earth 5x faster than before.

