

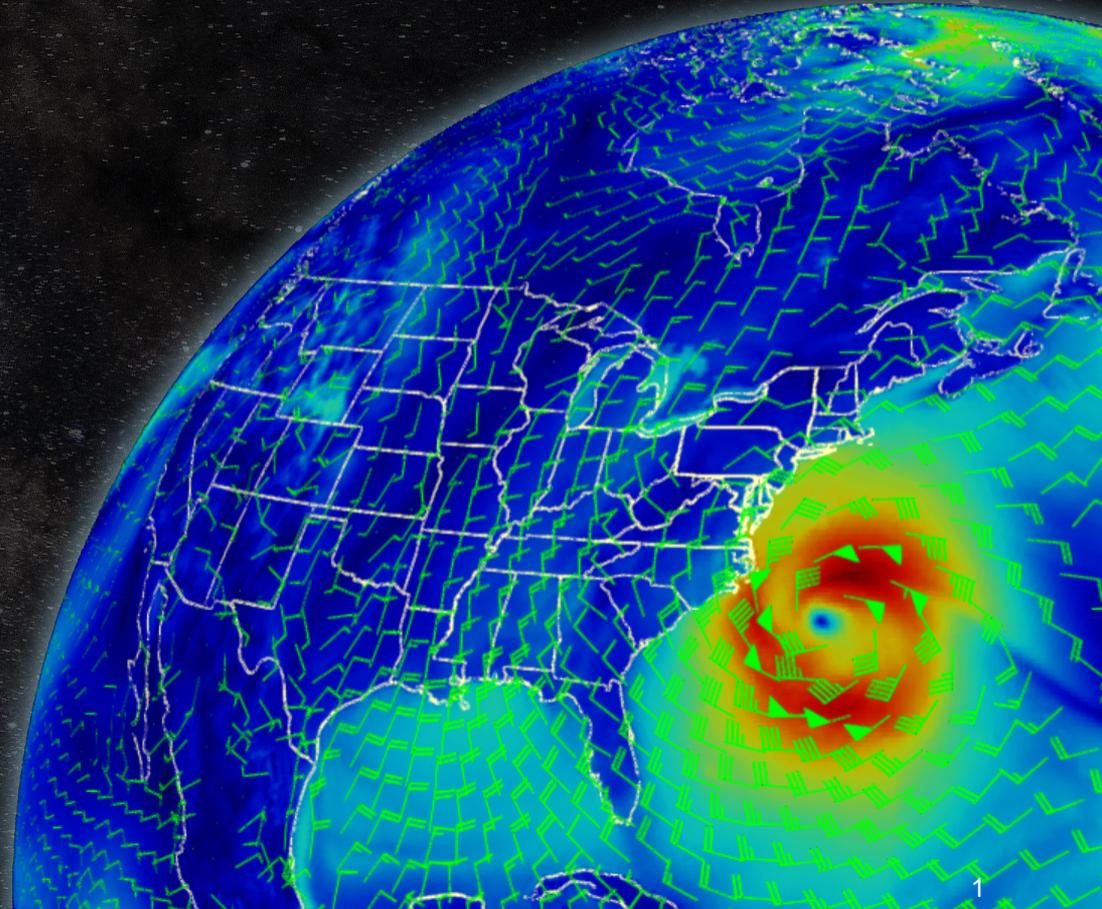
# Global Observing Systems Analysis

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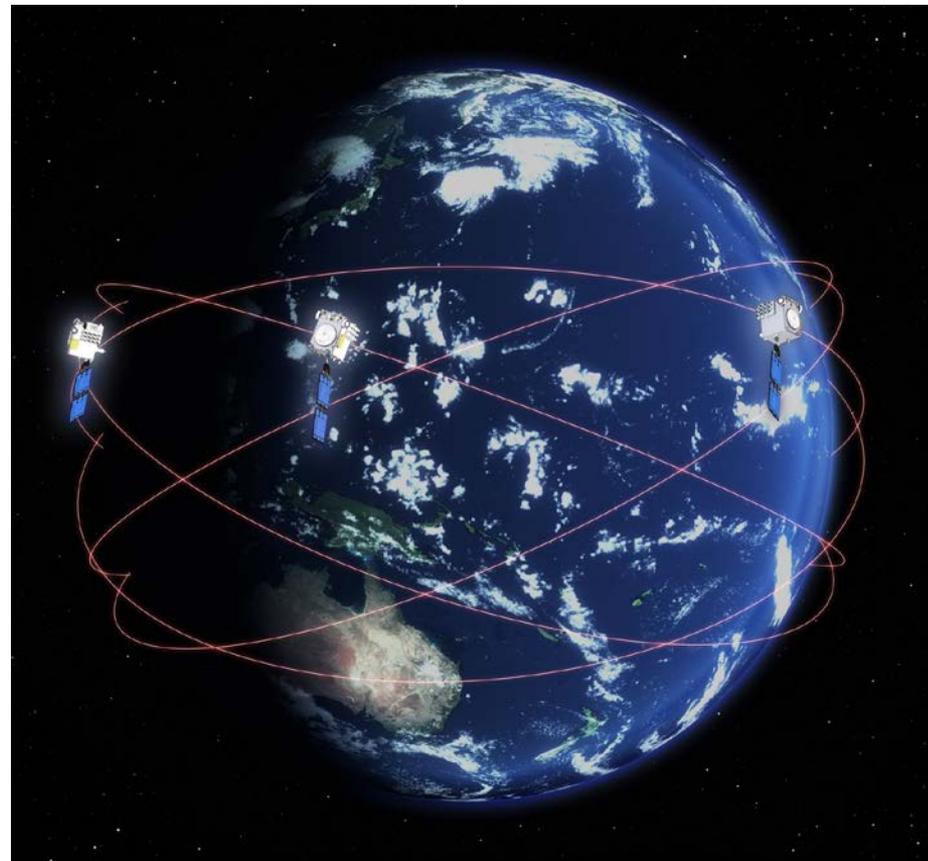
NOAA/ESRL/GSD



GSD Science Review  
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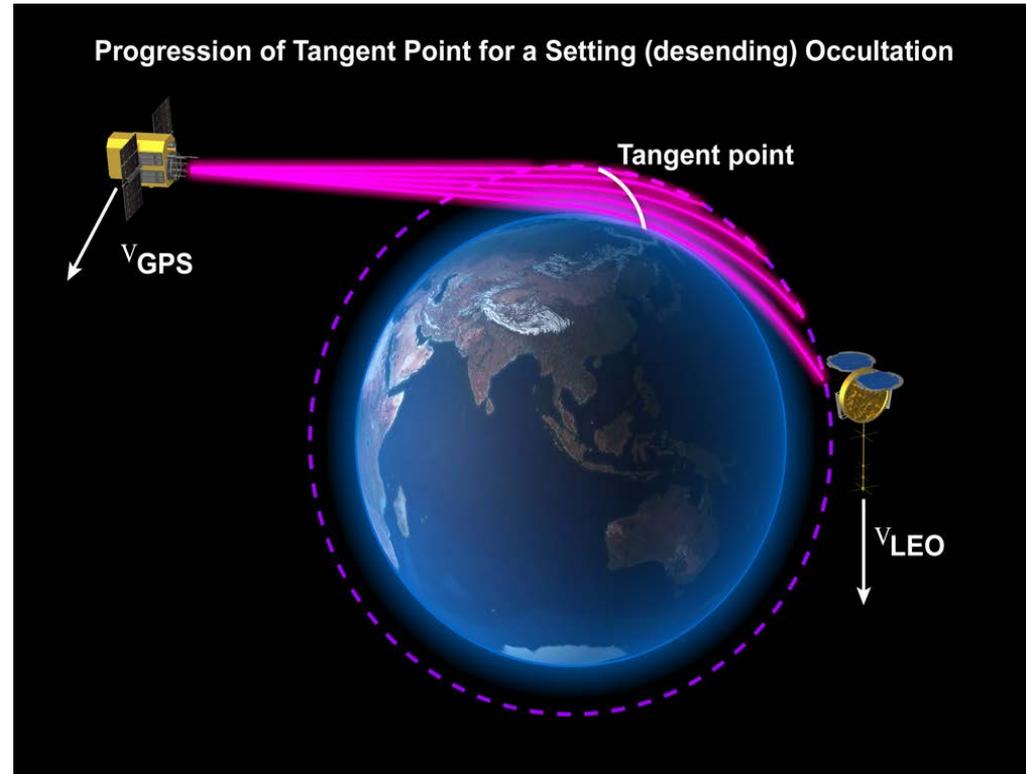
- Necessary to quantitatively evaluate benefits of current and new obs in weather forecasting
- Helps NOAA management prioritize mission designs in a cost-effective way
- Saves taxpayer and NOAA \$\$



# Radio Occultation (RO)

*One of the top contributors to improve global weather forecast skill*

- Provides very accurate weather observations under all-weather conditions
- Improve the use of current obs in operational weather models
- Evaluate the impact of future constellations



# Summary

- Increasing demand for tradeoff studies
- Need to quickly and efficiently assess the value and capabilities of existing and proposed observing systems
- Strengthen collaboration with AOML, NWS/EMC, JCSDA, NESDIS, UCAR, and the private sector
- More details at my poster
- Poster BONUS: GSD's Global Positioning System (GPS) precipitable water network!

