Global Observing Systems Analysis

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Observing System (Simulation) Experiments

• 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!