

CPAESS Discovery Seminars

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An introduction to NOAA's Quantitative Observing System Assessment Program (QOSAP)



DATE: Wed. January 25, 2023

TIME: 11:00 AM – 12:00 PM MT (VIRTUAL)

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PRESENTERS:

CPAESS Project Scientists **Mike Mueller** and **Ben Johnston** at NOAA Atlantic Oceanographic and Meteorological Laboratory (AOML)

*Introduction by Lidia Cucurull, NOAA QOSAP
Chief Scientist & Deputy Director*

Under NOAA's Quantitative Observing System Assessment Program (QOSAP), Ben and Mike study the impact of various types of observations on regional and global weather models. In this presentation, Ben shows the impact of COSMIC-2 radio occultation bending angle observations on tropical cyclone track and intensity forecasts in the HWRF model with a focus on the record-breaking 2020 Atlantic hurricane season. Mike will present his work with WindBorne Systems, a company that designs, builds, and operates long-duration smart balloons that measure temperature, humidity, and wind profiles. The impact of these observations on 240 hour Global Forecast System (GFS) forecasts is shown on global and regional scales.

CPAESS Discovery Seminars Coordinator Dawn Mullally mullally@ucar.edu

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