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Poster

Thermospheric winds are one of the critical parameters for understanding ionosphere from high to low latitudes. NCAR HAO has been building and deploying Fabry Perot interferometers (FPI) to various locations around the world and high altitude balloons to measure thermospheric winds. In addition, HAO/NCAR is also developing a CubeSat version of the FPI to measure the thermospheric winds. Each of the platforms (ground, balloon, and CubeSat) offer different perspective of the thermosphere. Recently, NCAR deployed a sub-auroral FPI in Athabasca, Canada and another at low latitudes in Korhogo, Ivory Coast. These two FPIs will contribute the space weather research at NCAR and help validate NCAR ionosphere and thermospheric wind models. NCAR also plan to fly a balloon borne-FPI in New Zealand in 2025. We will give an overview of the NCAR FPI programs and possible applications to space weather research.

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