ABSTRACT

Balloon-borne in situ observations of water vapor and ozone in the upper troposphere and lower to middle stratosphere provide invaluable data to study atmospheric processes in this part of the atmosphere. Requirements for relatively low cost instruments and the need for routine observations place high requirements on instrument design, production, data quality control, and data management. In this presentation, I will describe some basics of the Cryogenic Frostpoint Hygrometer (CFH) to measure routine water vapor and the Electrochemical Ozone Sonde (ECC) to measure ozone. I will describe some of the measurement programs that have taken place over the recent years and will discuss the lessons we have learned about the processes in the upper troposphere and lower to middle stratosphere from these important observations.

Dr. Holger Vömel
Scientist III, NCAR EOL In-situ Sensing Facility
voemel@ucar.edu

DATE: February 8, 2022
TIME: 3:30-4:30 pm MST
WEBCAST: operations.ucar.edu/live-eol
QUESTIONS: Participants may ask questions during the seminar via Slido

2022 EOL Seminar Series (Virtual)
Understanding climate processes in the upper troposphere and lower stratosphere through balloon-borne observations of water vapor and ozone

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EOL Seminar Series Coordinator: Jacquie Witte jwitte@ucar.edu

This webcast will be recorded and uploaded to the NCAR Earth Observing Laboratory YouTube Channel

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