

V. Program Schedule

● (Fri.) October 8

[ORAL] Session E. Ozone Monitoring and Measurement Techniques

Date / Time (Fri.) October 8, 2021 / 12:00-12:45 (UTC)

Session Code FRI1

Session Chair Nathaniel Livesey

[FRI1_1]

12:00-12:05

The Importance of Correcting the Time Response of the Electrochemical Concentration Cell (ECC) Ozonesonde

Holger Vömel¹, Herman G. J. Smit², David Tarasick³, Bryan Johnson⁴, Samuel J. Oltmans⁴, Henry Selkirk⁵, Anne M. Thompson⁵, Ryan M. Stauffer⁵, Jacquelyn C. Witte¹, Jonathan Davies³, Roeland van Malderen⁶, Gary A. Morris⁷, Tatsumi Nakano⁸, and René Stübi⁹

¹NCAS, USA, ²Institute of Energy and Climate Research (IEK), Germany, ³Environment and Climate Change Canada, Canada, ⁴NOAA, USA, ⁵NASA, USA, ⁶Royal Meteorological Institute, Belgium, ⁷St. Edward's University, USA, ⁸JMA, Japan, ⁹MeteoSwiss, Switzerland

[FRI1_2]

12:05-12:10

An Updated Examination of the Post-2013 Ozonesonde Total Column Ozone "Dropoff"

Ryan M. Stauffer¹, Anne M. Thompson¹, Debra E. Kollonige^{2,1}, David W. Tarasick³, Holger Vömel⁴, Gary A. Morris⁵, Roeland Van Malderen⁶, Bryan J. Johnson⁷, Patrick D. Cullis^{8,7}, René Stübi⁹, and Herman G. J. Smit¹⁰

¹NASA, USA, ²Science Systems and Applications, Inc., USA, ³Environment and Climate Change Canada, Canada, ⁴NCAS, USA, ⁵St. Edwards University, USA, ⁶Royal Meteorological Institute of Belgium, Belgium, ⁷NOAA, USA, ⁸University of Colorado, USA, ⁹MeteoSwiss, Switzerland, ¹⁰Institute of Energy and Climate Research: Troposphere (IEK-8), Germany

[FRI1_3]

12:10-12:15

The Changing-Atmosphere Infra-Red Tomography Explorer CAIRT – A Candidate for ESA's Earth Explorer 11

Björn-Martin Sinnhuber¹, Peter Preusse², Martyn Chipperfield³, Quentin Errera⁴, Felix Friedl-Vallon¹, Bernd Funke⁵, Sophie Godin-Beekmann⁶, Maya Garcia Comas⁵, Michael Höpfner¹, Manuel López Puertas⁵, Vincent-Henri Peuch⁷, Felix Plöger², Inna Polichtchouk⁷, Piera Raspollini⁸, Stefanie Riel⁹, Martin Riese², Miriam Sinnhuber¹, Gabi Stiller¹, Jörn Ungermann², Thomas von Clarmann¹, and Kaley Walker¹⁰

¹Karlsruhe Institute of Technology, Germany, ²Institute of Energy and Climate Research (IEK), Germany, ³University of Leeds, UK, ⁴BIRA-IASB, Belgium, ⁵Instituto de Astrofísica de Andalucía, Spain, ⁶National Centre for Scientific Research, France, ⁷ECMWF, UK, ⁸National Research Council (CNR), Italy, ⁹Airbus Defense and Space, Germany, ¹⁰University of Toronto, Canada

V. Program Schedule

- [FRI1_4]** 12:15-12:20
The Continuity Microwave Limb Sounder (C-MLS) – Capitalizing on New Technology to Continue the MLS Record of Daily Global Middle Atmosphere Composition Observations
Nathaniel J. Livesey¹, Goutam Chattopadhyay¹, Adrian Tang¹, Robert A. Stachnik¹, Robert F. Jarnot¹, Luis F. Millán¹, William G. Read¹, Richard E. Cofield¹, Michelle L. Santee¹, Mau-Chung (Frank) Chang², and Rulin Huang²
¹NASA, USA, ²UCLA, USA
- [FRI1_5]** 12:20-12:25
TOPAS Ozone Profile Retrieval from TROPOMI Nadir Measurements in the Ultraviolet Spectral Range and Improvements by Combining with CrIS Infrared Measurements
Nora Mettig¹, Mark Weber¹, Alexei Rozanov¹, Carlo Arosio¹, John P. Burrows¹, and Pepijn Veefkind²
¹University of Bremen, Germany, ²KNMI, The Netherlands
- [FRI1_6]** 12:25-12:30
Diurnal Variation of GEMS Total Column Ozone Data: Ground-Based Validation and Consistency with Other Satellite Missions
Kanghyun Baek¹, Jae-Hwan Kim¹, and David P. Haffner²
¹Pusan National University, Republic of Korea, ²Science Systems and Application Inc., USA
- Q&A** 12:30-12:45