

V. Program Schedule

● (Mon.) October 4

[ORAL] Session A. Stratospheric Ozone Science

Date / Time (Mon.) October 4, 2021 / 12:00-12:50 (UTC)

Session Code MON1

Session Chair Wolfgang Steinbrecht, Ja-Ho Koo, Karin Kreher

[MON1_K] 12:00-12:15

Keynote

Polar Stratospheric Ozone: Recent Observations, Current Understanding, and Future Evolution

Ulrike Langematz

Institute of Meteorology, Freie Universität Berlin, Germany

[MON1_1] 12:15-12:20

Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion

Ines Tritscher¹, Michael C. Pitts², Lamont R. Poole³, Simon P. Alexander⁴, Francesco Cairo⁵, Martyn P. Chipperfield⁶, Jens-Uwe Grooß¹, Michael Höpfner⁷, Alyn Lambert⁸, Beiping Luo⁹, Sergey Molleker¹⁰, Andrew Orr¹¹, Ross Salawitch¹², Marcel Snels⁵, Reinhol Spang¹, Wolfgang Woiwode⁷, and Thomas Peter⁹

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[MON1_2] 12:20-12:25

Variability and Trends in the Antarctic Ozone Hole: MLS Observations and Model Comparisons

Michael J. Schwartz¹, Lucien Froidevaux¹, Douglas E. Kinnison², Charles G. Bardeen², Nathaniel J. Livesey¹, Michelle L. Santee¹, Gloria L. Manney^{3,4}, Alyn Lambert¹, and Ryan A. Fuller¹

¹CalTech, USA, ²NCAR, USA, ³NorthWest Research Associates, USA, ⁴New Mexico Tech, USA

[MON1_3] 12:25-12:30

Evaluation of Interannual Variability of Arctic and Antarctic Ozone Loss Since 1989

Andrea Pazmiño¹, Florence Goutail¹, Jean-Pierre Pommereau¹, Franck Lefèvre¹, Sophie Godin-Beekmann¹, Alain Hauchecorne¹, Audrey Lecouffe¹, Martyn Chipperfield², Wuhu Feng², Michel Van Roozendaal³, Nis Jepsen⁴, Georg Hansen⁵, Rigel Kivi⁶, Kristof Bogner⁷, Kimberly Strong⁷, Kaley Walker⁷, and Steve Colwell⁸

¹LATMOS/IPSL, UVSQ, Université Paris-Saclay, Sorbonne Université, CNRS, France, ²University of Leeds, UK, ³BIRA-IASB, Belgium, ⁴Danish Meteorological Institute, Denmark, ⁵NILU, Norway, ⁶Finnish Meteorological Institute, Finland, ⁷University of Toronto, Canada, ⁸British Antarctic Survey, UK

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[MON1_4] 12:30-12:35

Arctic Ozone Depletion in 2019/20: Roles of Chemistry, Dynamics and the Montreal Protocol

Wuhu Feng^{1,2}, Sandip S. Dhomse^{1,3}, Carlo Arosio⁴, Mark Weber⁴, John P. Burrows⁴, Michelle L. Santee⁵, and Martyn P. Chipperfield^{1,3}

¹University of Leeds, UK, ²NCAS, UK, ³NCEO, UK, ⁴University of Bremen, Germany, ⁵CalTech, USA

[MON1_5] 12:35-12:40

Recovery of Polar Stratospheric Ozone: Updated Metrics from Chemistry-Climate Simulations

Martyn Chipperfield¹, Sandip S. Dhomse¹, and Doug Kinnison²

¹University of Leeds, UK, ²NCAR, USA

[MON1_6] 12:40-12:45

The Conundrum of the Recent Variations in Lower Stratospheric Ozone: An Update

Andreas Chrysanthou¹, Sandip S. Dhomse¹, Wuhu Feng¹, Yajuan Li², Ryan Hossaini³, William T. Ball⁴, and Martyn Chipperfield¹

¹University of Leeds, UK, ²Nanjing Xiaozhuang University, China, ³University of Lancaster, UK, ⁴TU Delft, The Netherlands

[MON1_7] 12:45-12:50

Evidence that Tropical Total Column Ozone no Longer Represents Stratospheric Changes

William T. Ball^{1,2}, Gabriel Chiodo³, Justin Alsing⁴, Thomas Peter³, Jerald Ziemke^{5,6}, Sean Davis⁷, Mohamadou Diallo⁸, Lucien Froidevaux⁹, Birgit Hassler¹⁰, Till Hoffmann¹¹, Daan Hubert¹², and James Keeble^{13,14}

¹TU Delft, The Netherlands, ²De Bilt, The Netherlands, ³ETH Zurich, Switzerland, ⁴Stockholm University, Sweden, ⁵NASA, USA, ⁶Morgan State University, USA, ⁷NOAA, USA, ⁸Forschungszentrum Jülich, Germany, ⁹CalTech, USA, ¹⁰DLR, Germany, ¹¹Imperial College London, UK, ¹²BIRA-IASB, Belgium, ¹³University of Cambridge, UK, ¹⁴NCAS, University of Cambridge, UK