

Program Overview

Sunday October 26, 2025

4:00 PM to 6:00 PM	In-person Registration and Check In	Sheraton Hotel Lobby
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Monday October 27, 2025

7:30 AM to 8:30 AM	In-person Registration and Check In	Ocean Grand Foyer
8:30 AM to 9:30 AM	Opening Presentations and Symposium Keynote	Ocean Grand Ballroom
9:30 AM to 10:30 AM	Session A: Keynote and Contributed Presentations	Ocean Grand Ballroom
10:30 AM to 11:00 AM	Break (sponsored by Internet)	Ocean Grand Foyer
11:00 AM to 12:30 PM	Session A: Contributed Presentations (cont.)	Ocean Grand Ballroom
12:30 PM to 2:00 PM	Lunch Break	
2:00 PM to 2:30 PM	Session A: Contributed Presentations (cont.)	Ocean Grand Ballroom
2:30 PM to 4:00 PM	Session B: Keynote and Contributed Presentations	Ocean Grand Ballroom
4:00 PM to 6:00 PM	Break and Posters (sponsored by NASA)	Ocean Grand Foyer

Tuesday October 28, 2025

8:00 AM to 8:30 AM	In-person Registration and Check In	
8:30 AM to 9:45 AM	Session B: Contributed Presentations (cont.)	Ocean Grand Ballroom
9:45 AM to 10:30 AM	Session C: Keynote and Contributed Presentations	
10:30 AM to 11:00 AM	Break (sponsored by Internet)	Ocean Grand Foyer
11:00 AM to 12:30 PM	Session C: Contributed Presentations (cont.)	Ocean Grand Ballroom
12:30 PM to 2:00 PM	Lunch Break	
2:00 PM to 2:30 PM	Session C: Contributed Presentations (cont.)	Ocean Grand Ballroom
2:30 PM to 4:00 PM	Session D: Keynote and Contributed Presentations	Ocean Grand Ballroom
4:00 PM to 6:00 PM	Break and Posters (sponsored by NASA)	Ocean Grand Foyer

Wednesday October 29, 2025

8:00 AM to 8:30 AM	In-person Registration and Check In	
8:30 AM to 9:15 AM	Session D: Contributed Presentations (cont.)	Ocean Grand Ballroom
9:15 AM to 10:30 AM	Session E: Keynote and Contributed Presentations	
10:30 AM to 11:00 AM	Break (sponsored by Bruker)	Ocean Grand Foyer
11:00 AM to 12:30 PM	Session E: Contributed Presentations (cont.)	Ocean Grand Ballroom
12:30 PM to 12:45 PM	Symposium Photo	
12:45 PM to 6:00 PM	Afternoon Break	
6:00 PM to 8:00 PM	Symposium Dinner (sponsored by EUMETSAT) and Presentation	Capes Ballroom

Thursday October 30, 2025

8:00 AM to 8:30 AM	In-person Registration and Check In	
8:30 AM to 10:00 AM	Session F: Keynote and Contributed Presentations	Ocean Grand Ballroom
10:00 AM to 10:30 AM	Break (sponsored by Bruker)	Ocean Grand Foyer
10:30 AM to 11:45 AM	Session F: Contributed Presentations (cont.)	Ocean Grand Ballroom
11:45 AM to 12:30 PM	Closing Presentations and Symposium Keynote	Ocean Grand Ballroom

Detailed Program

Sunday October 26, 2025

4:00 PM to 6:00 PM

In-person Registration and Check In

Sheraton Hotel Lobby

Monday October 27, 2025

7:30 AM to 8:30 AM

In-person Registration and Check In

Ocean Grand Foyer

8:30 AM to 9:30 AM

Opening Presentations and Symposium Keynote

Ocean Grand Ballroom

Logistics – **Ryan Stauffer** and the Local Organizing Committee

Welcome – **Betty H. Stewart**, Ph.D., Provost and EVP Hampton University

Welcome from the **NDACC Co Chairs**

K_S01 Opening Keynote – Susan Solomon (30 minutes)

How a Few Ground-Based Measurements Coalesced into Remarkable Networks:

NDSC and NDACC

9:30 AM to 10:30 AM

Session A

Ocean Grand Ballroom

K_A01 Keynote – Sophie Godin-Beekmann & Emmanuel Mahieu (30 minutes)

Ups And Downs in Creating and Maintaining Decade-Long High-Quality Ground-Based
Observational Data Series

Contributed Presentations (15 minutes each)

O_A01: **Alistair Bell** – Continuous Monitoring and Development in Microwave Radiometry for
Middle Atmosphere Sounding

O_A02: **Michel Van Roozendaal** – Reassessment of the Long-Term Trend in Stratospheric BrO
Columns at Harestua (60° N) and Lauder (45° S) Based on Three Decades of Observations

10:30 AM to 11:00 AM

Break (sponsored by Internet)

Ocean Grand Foyer

11:00 AM to 12:30 PM

Session A (cont.)

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

O_A03: **Alberto Redondas Marrero** – 20 years of the Izaña Regional Calibration Center- Europe

O_A04: **Luca Egli** (remote) – Improvements of the Spectra of the BTS Solar Instrument for Total
Column Ozone Retrieval and Global UV Radiation Measurements

O_A05: **Sergey Shilov** – Advanced Solutions for Monitoring of Air Quality and Greenhouse Gases

O_A06: **Kate Smith** – The Balloon Baseline Stratospheric Aerosol Profiles (B2SAP) Dataset for in
Situ Measurements of Stratospheric Aerosol

O_A07: **Michael Sicard** – Updates of OPAR NDACC Site at Reunion Island (21°S, 55°E)

12:30 PM to 2:00 PM

Lunch (on your own)

Monday October 27, 2025 (cont.)

2:00 PM to 2:30 PM Session A (cont.)

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

O_A08: **Andrea Pazmino** – SAOZ Network: More Than 35 Years of Continuous O₃ and NO₂ Total Columns Observations

O_A09: **Louis Mirallié** – Regional Bayesian Composite of Surface-Based Ozone Partial Columns

2:30 PM to 4:00 PM Session B

Ocean Grand Ballroom

K_B01 Keynote – Daan Hubert & Tijn Verhoelst (30 minutes)

A Journey Towards 50 Years of NDACC Cooperation with the Atmospheric Composition Satellites

Contributed Presentations (15 minutes each)

O_B01: **Jiansheng Zou** (remote) – Validation of ACE-FTS v5.3 Ozone Data with NDAAC Ground-Based Instruments

O_B02: **Nigel Richards** – Validation of OMPS Limb Profiler Ozone Retrievals Using Ground-Based Correlative Data

O_B03: Jun Wang, **David E. Flittner** – SAGE III/ISS: an Anchor Standard for Monitoring Atmospheric Composition in the Upper Troposphere and Stratosphere

4:00 PM to 6:00 PM Break and Posters (sponsored by NASA)

***Ocean Grand Foyer
Ocean Grand Ballroom***

Tuesday October 28, 2025

8:00 AM to 8:30 AM ***In-person Registration and Check In***

8:30 AM to 9:45 AM ***Session B (cont.)***

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

- O_B04: **Juseon Bak** (invited, remote) – GEMS Ozone Profile Retrieval: Impact and Validation of Version 3.0 Improvements
- O_B05: **Arno Keppens** (remote) – A Constellation Approach to the Validation of Tropospheric Ozone Observations from Space
- O_B06: **Niko Fedkin** – Assessment of TEMPO NO₂ Columns for Monitoring Emissions from Oil and Gas Operations Using Comparisons with Pandora and SCOPE-II Campaign Data
- O_B07: **Zachary Fasnacht** (remote) – Validating High Spatial Resolution Trace Gas Retrievals from the PACE Ocean Color Instrument
- O_B08: Bojan R. Bojkov, **Thierry Marbach** – EUMETSAT's Approach to Cal/Val Gap Analyses and Fiducial Reference Measurements

9:45 AM to 10:30 AM ***Session C***

Ocean Grand Ballroom

K_C01 Keynote – Sergey Khaykin (30 minutes)

Assessing the impact of Hunga Eruption on the Global Stratospheric Composition using a Synergy Of NDACC, GRUAN and Satellite Observations

Contributed Presentations (15 minutes each)

- O_C01: **Roeland Van Malderen** – Harmonization, Evaluation, and Trend Estimation of Ground-based Tropospheric Ozone Measurements from NDACC and IAGOS instruments

10:30 AM to 11:00 AM ***Break (sponsored by Internet)***

Ocean Grand Foyer

11:00 AM to 12:30 PM ***Session C (cont.)***

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

- O_C02: **Stephen Montzka** – Carbonyl Sulfide from Different Angles; Investigating How Combining Results from both NDACC and NOAA Enhances Our Understanding of its Atmospheric Distributions, Seasonalities, and Trends
- O_C03: **Bianca Baier** – Cross-Network Engagement Opportunities Between NDACC and NOAA's AirCore Program
- O_C04: **Alexandre Baron** – The NOAA Balloon Baseline Stratospheric Aerosol Profiles – In Situ Insight on the Stratospheric Aerosol Layer
- O_C05: **Pawan Gupta** – Three Decades of Atmospheric Aerosols Measurements from AERONET
- O_C06: **Anne M. Thompson** – Tropospheric Ozone Trends in the Tropics (1998-2023): An Overview of Observational and Statistical Perspectives

12:30 PM to 2:00 PM ***Lunch (on your own)***

Tuesday October 28, 2025 (cont.)

2:00 PM to 2:30 PM Session C (cont.)

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

O_C07: **Steven Compennolle** (remote) – Towards End-to-End Validation of TROPOMI

Tropospheric Data: A Cross-Network Approach

O_C08: **Ruud Dirksen** (remote) – GRUAN: the Road to Long-Term Reference Observations

2:30 PM to 4:00 PM Session D

Ocean Grand Ballroom

K_D01 Keynote – Martyn Chipperfield (30 minutes)

Combining NDACC data and Global 3-D Modelling to Understand Processes, Variability
and Trends in Stratospheric Composition

Contributed Presentations (15 minutes each)

O_D01: **Daniele Minganti** (Invited) – Understanding Stratospheric Circulation Changes Using FTIR
Measurements

O_D02: **Ivan Ortega** – Advancing NDACC/IRWG FTIR CH₄ and N₂O Retrieval Strategies to
Strengthen Atmospheric Composition Analyses and the Evaluation of Model Simulations
and Satellite Observations

O_D03: **Beatriz Herrera** (remote) - NH₃ Trends and Model Comparisons at 21 FTIR Sites

O_D04: **Christian Rolf** – Project Overview about the ISSI International Team on Upper
Tropospheric and Stratospheric Water Vapor

4:00 PM to 6:00 PM Break and Posters

***Ocean Grand Foyer
Ocean Grand Ballroom***

Wednesday October 29, 2025

8:00 AM to 8:30 AM ***In-person Registration and Check In***

8:30 AM to 9:15 AM ***Session D (cont.)***

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

O_D05: **Daniel Rauter** (remote) – Spectral UV Irradiance and Total Ozone Trends in the Austrian Alps and Lowlands: A Multi-Decadal Analysis

O_D06: **Megan Lickley** – Bias in the use of Atmospheric Lifetimes for 1-Box Emissions Inference of Ozone Depleting Substances Measured at the Surface

O_D07: **Ralf Sussmann** (remote) – On Daytime Increase of Stratospheric NO_x: New Insights from FTIR Measurements and Photochemistry Modeling

9:15 AM to 10:30 PM ***Session E***

Ocean Grand Ballroom

K_E01 Keynote – Susann Tegtmeier (30 minutes)

Long-Term Changes of the Brewer-Dobson Circulation and the Impact on Stratospheric Composition

Contributed Presentations (15 minutes each)

O_E01: **Paul A. Newman** (invited) – On the Breakup of the Antarctic Ozone Hole

O_E02: **Simone Tilmes** (invited, remote) – The Effects of Solar Climate Interventions on the Ozone Layer, Benefits, Risks, and Uncertainties

O_E03: **Xin Zhou** (remote) – Stratospheric Water Vapor Perturbation from the 2022 Hunga Tonga Eruption: Transport and Removal

10:30 AM to 11:00 AM ***Break (sponsored by Bruker)***

Ocean Grand Foyer

11:00 AM to 12:30 PM ***Session E (cont.)***

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

O_E04: **Hannah Clark** – Long-term Measurements of Ozone and Water Vapour from IAGOS Aircraft for Air-Quality and Climate

O_E05: **Sarah Strode** – Evaluating Tropospheric Ozone Variability in GEOS-GMI with Ozonesonde Data and Quantifying its Drivers

O_E06: **Peter Effertz** – Updated Total Column Ozone trends from Ground-Based and Satellite Records Derived Using an Optimized LOTUS Regression Model

O_E07: **Victoria Flood** (remote) – Utilizing over 20 years of measurements by the University of Toronto Atmospheric Observatory NDACC FTIR to assess air quality and composition

O_E08: **James Hannigan** – Revised Long Term Global Carbonyl Sulfide Trends from the NDACC IRWG

12:30 PM to 12:45 PM ***Symposium Photo***

12:45 PM ***Afternoon Break (on your own)***

6:00 PM to 8:00 PM ***Symposium Dinner (sponsored by EUMETSAT)
and Presentation***

Capes Ballroom

K_S02 Dinner Presentation: **Michael J. Kurylo** – A Walk Down NDSC/NDACC Memory Lane

Thursday October 30, 2025

8:00 AM to 8:30 AM ***In-person Registration and Check In***

8:30 AM to 10:00 AM ***Session F***

Ocean Grand Ballroom

K_F01 Keynote – Ross J. Salawitch (30 minutes)

The Need for Data from NDACC During the Upcoming Satellite-Based, Data Desert of Stratospheric Observations

Contributed Presentations (15 minutes each)

- O_F01: **Nathaniel J. Livesey** (invited) – Two Decades of Observations and Science from the Aura Microwave Limb Sounder (MLS)
- O_F02: **Peter Bernath** (invited) – Atmospheric Chemistry Experiment (ACE): Overview
- O_F03: Jia Yue, **Martin Mlynczak** (invited) – NASA SABER/TIMED Measurements in the Stratosphere
- O_F04: **Natalya Kramarova** (invited) – Filling the Gap: OMPS LP Ozone Profiles as a Successor to Aura MLS Observations

10:00 AM to 10:30 AM ***Break***

Ocean Grand Foyer

10:30 AM to 11:45 AM ***Session F (cont.)***

Ocean Grand Ballroom

Contributed Presentations (15 minutes each)

- O_F05: **Katrin Müller** (invited, remote) – The Palau Atmospheric Observatory: A Decade of Monitoring in the Tropical Western Pacific
- O_F06: **Holger Vömel** – 20 Years of Tropical Upper Tropospheric and Stratospheric Water Vapor Monitoring at Costa Rica
- O_F07: **Lyatt Jaeglé** (invited) – The STRIVE Earth System Explorer Mission Concept
- O_F08: **Ken Jucks** (invited) – NDACC after MLS and ACE

11:45 AM to 12:30 PM ***Closing Presentations and Symposium Keynote***

Ocean Grand Ballroom

K_S03 Closing Keynote – Wolfgang Steinbrecht & Jeannette D. Wild (30 minutes)

NDACC, Looking Back and Looking Ahead

Symposium Closing Remarks – **NDACC Co-Chairs**

12:30 PM

Symposium End