

## Program Overview

### 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  
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 Intermet) 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 & 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: Contributed Presentations (cont.) Ocean Grand Ballroom  
9:45 AM to 10:30 AM Session C: Keynote and Contributed Presentations Ocean Grand Ballroom  
10:30 AM to 11:00 AM Break (sponsored by Science Pump Corporation) 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 Bruker) Ocean Grand Foyer & 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: Contributed Presentations (cont.) Ocean Grand Ballroom  
9:15 AM to 10:30 AM Session E: Keynote and Contributed Presentations Ocean Grand Ballroom  
10:30 AM to 11:00 AM Break (sponsored by NASA and 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 Intermet and Science Pump Corporation) 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*

Chairs: **Martine De Mazière, Irina Petropavlovskikh**

Logistics – **Jeannette D. Wild** and the Local Organizing Committee

Welcome – **Tiavara Hawkins**, Ph.D., Dean of the School of Science, Hampton University

Welcome from the NDACC Co Chairs, **Irina Petropavlovskikh**

**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*

Chairs: **Jason St Claire, Corinne Vigoroux, Wolfgang Steinbrecht (alt.)**

**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*

Chairs: **Deborah Kollonige, Thierry Marbach, James Hannigan (alt.)**

**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***

Chairs: **James Hannigan, Wolfgang Steinbrecht**

**Contributed Presentations (15 minutes each)**

O\_A08: **Andrea Pazmino** – SAOZ Network: More Than 35 Years of Continuous O<sub>3</sub> and NO<sub>2</sub> 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***

Chairs: **Eliane Maillard Barras, Hannah Clark, Jean-Christopher Lambert (alt.)**

**K\_B01 Keynote – Daan Hubert & Tijn Verhoelst (30 minutes)**

A Journey Towards 50 Years of NDAAC 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***

Chairs: **Jean-Christopher Lambert, Richard Querel, Eliane Maillard Barras (alt.)**

**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 NO<sub>2</sub> Columns for Monitoring Emissions from Oil and Gas Operations Using Comparisons with Pandora and SCOAPE-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***

Chairs: **Elizabeth Asher, Thierry Leblanc**

**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 Science Pump Corporation)***

***Ocean Grand Foyer***

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

***Ocean Grand Ballroom***

Chairs: **Elizabeth Asher, Thierry Leblanc**

**Contributed Presentations (15 minutes each)**

- O\_C02: **ALTERNATE PRESENTATION: Bärbel Vogel** - Does the Asian summer monsoon play a role in the stratospheric aerosol budget of the Arctic? (P\_C04)
- O\_C03: **Bianca Baier, Markus Jesswein** – 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\_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**

Chairs: **Elizabeth Asher, Thierry Leblanc**

**Contributed Presentations (15 minutes each)**

O\_C07: **Steven Compernelle (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**

Chairs: **Martine De Mazière, Tuukka Petäjä, Sarah Strode (alt.)**

**K\_D01 Keynote – Martyn Chipperfield (30 minutes) remote**

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 CH<sub>4</sub> and N<sub>2</sub>O Retrieval Strategies to  
Strengthen Atmospheric Composition Analyses and the Evaluation of Model Simulations  
and Satellite Observations

O\_D03: **Beatriz Herrera (remote)** - NH<sub>3</sub> 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 (sponsored by Bruker)**

**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***

Chairs: **Sarah Strode, Anne M. Thompson, Martine De Mazière (alt.)**

**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 NOx: New Insights from FTIR Measurements and Photochemistry Modeling

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

***Ocean Grand Ballroom***

Chairs: **Bärbel Vogel, Roeland Van Malderen, Irina Petropavlovskikh (alt.)**

**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 NASA and Bruker)***

***Ocean Grand Foyer***

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

***Ocean Grand Ballroom***

Chairs: **Bärbel Vogel, Roeland Van Malderen, Irina Petropavlovskikh (alt.)**

**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

Wednesday October 29, 2025 (cont.)

**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***

Chairs: **Martine De Mazière, Irina Petropavlovskikh**

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***

Chairs: **Henry Selkirk, Irina Petropavlovskikh (alts.)**

**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, **remote**) – 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: **Martin Mlynczak** (invited) – NASA SABER/TIMED Measurements in the Stratosphere

O\_F04: **Natalya Kramarova / Nigel Richards** (invited) – Filling the Gap: OMPS LP Ozone Profiles as a Successor to Aura MLS Observations

**10:00 AM to 10:30 AM**      ***Break (sponsored by Internet and Science Pump Corporation)***

***Ocean Grand Foyer***

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

***Ocean Grand Ballroom***

Chairs: **Henry Selkirk, Pam Wales (alt.)**

**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

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

***Ocean Grand Ballroom***

Chairs: **Irina Petropavlovskikh, Martine De Mazière**

**K\_S03 Closing Keynote – Wolfgang Steinbrecht & Jeannette D. Wild (30 minutes)**

NDACC, Looking Back and Looking Ahead

Symposium Closing Remarks – **NDACC Co-Chair: Martine De Mazière**

**12:30 PM**

***Symposium End***