



American Meteorological Society



**24th Conference on Atmospheric and Oceanic
Fluid Dynamics & 22nd Conference on Middle
Atmosphere**

24 - 28 June 2024

Burlington, VT and Online

Hilton Burlington Lake Champlain

24th Conference on Atmospheric and Oceanic Fluid Dynamics

24-28 June 2024 – Burlington, VT and Online

Welcome to the American Meteorological Society's 24th Conference on Atmospheric and Oceanic Fluid Dynamics, held in Burlington, VT, in conjunction with the 22nd Conference on Middle Atmosphere. Every two years, this is an opportunity for the environmental fluid dynamics communities to meet and share ideas across atmospheric and oceanic disciplines. As in previous conferences, presentations will span theoretical, observational, and modeling approaches focused on understanding fundamental dynamical processes that broadly impact Earth's and other planet's climate. We look forward to an exciting conference!

We are also pleased to recognize our colleague who has had a strong impact on this field. The Bernhard Haurwitz Lecturer will be Paul O'Gorman, who will present "Role of Water Vapor in the Response of the Atmosphere and Ocean to Warming from Convective to Planetary Scales" on Wednesday evening.

We would like to bring your attention to the many people that helped organize this conference. We especially thank Allison Milliken and Anna Vock, AMS Meetings Coordinators, who helped in countless ways to ensure that this meeting will be a success, and the AMS Meetings Department for their organizational support. We would also like to thank the other AMS Atmospheric and Oceanic Fluid Dynamics Committee members and the Middle Atmosphere chairpersons, who contributed to the planning of this meeting.

If you have suggestions for the next AMS Atmospheric and Oceanic Fluid Dynamics meeting, please speak to any member of the committee. We'll be working in the upcoming year to set a date and venue for the next meeting in approximately 2 years time.

Last but not least: we encourage all participants to familiarize themselves and respect the AMS Safe and Inclusive Meetings guidelines.

Best wishes for a successful meeting in Burlington!

Timothy Merlis, Lia Siegelman; Conference Chairpersons

AOFD Conference Program Committee: Rodrigo Caballero, Timothy Merlis, Lia Siegelman, Andrew Stewart

Other AMS Atmospheric and Oceanic Fluid Dynamics members: Talia Tamarin-Brodsky, Marianna Linz, Molly Menzel, Lei Wang, Yue Bai

22nd Conference on Middle Atmosphere

24-27 June 2024 – Burlington, VT and Online

Welcome to Burlington, Vermont, and to the American Meteorological Society's 22nd Conference on Middle Atmosphere. We look forward to an exciting meeting.

This Middle Atmosphere conference features a panel discussion on the future of middle atmosphere research on Tuesday morning. The Bernhard Haurwitz Memorial Lecture, recognizing outstanding mid-career scientists in atmospheric and oceanic fluid dynamics, middle atmosphere and climate dynamics, will be given by Dr. Paul O'Gorman on Wednesday evening. We would also like to invite both early career researchers and more senior attendees to join the networking reception on Tuesday evening.

We wish you an enjoyable week with lots of good science!

The 22nd Conference on Middle Atmosphere Program Committee: Pu Lin, Rei Ueyama, Laura Holt, Martina Bramberger and Yaowei Li

24th Conference on Atmospheric and Oceanic Fluid Dynamics & 22nd Conference on Middle Atmosphere

24-28 June 2024
Burlington, VT and Online
Hilton Burlington Lake
Champlain

Organizers

The 24th Conference on Atmospheric and Oceanic Fluid Dynamics is organized by the AMS Committee on Atmospheric and Oceanic Fluid Dynamics and hosted by the American Meteorological Society.

The 22nd Conference on Middle Atmosphere is organized by the AMS Committee on Middle Atmosphere and hosted by the American Meteorological Society.

Connect

Follow conference updates on X @ametsoc and @AMSMiddleAtmos. Also share your posts using the hashtag #AMS24Fluid and #AMS22Middle.

Conference Badges and Registration

All those in attendance of the AMS conference must register and wear the name badge associated with their registration package. Please wear your badge in a viewable spot at all times during the conference. As a reminder, during registration you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care.

The AMS Registration Desk is located in Montpelier B at the Hilton Burlington Lake Champlain. The AMS Registration Desk will be open for registration on Sunday, 23 June from 5:00pm-7:00pm, and Monday-Friday during the hours of the conference.

Attendees who have registered for a full week package may attend all conference sessions (in person or virtual), coffee breaks, and poster viewings.

Attendees who have registered for a one day package may attend, for one calendar day, admission to all conference sessions (in person or virtual), coffee breaks, poster viewings and/or receptions that take place on that day.

Guest Policy - Guests will not be able to join you for sessions but may join you for functions to which all attendees are invited, such as receptions, poster viewings, and coffee breaks.

Uploading Presentations

Speakers who have not already uploaded their presentation file in Presenter's Corner and are attending in person may upload their presentations in the room they are presenting in. Uploading can take place before a session or during a coffee break at least 30 minutes prior to your session start time. There will be a Presentation Viewing Room onsite in Montpelier C where you can ensure that your presentation has been uploaded correctly.

EVENTS

Icebreaker Reception

Monday, 24 June | 6:00 - 7:30 PM | Lake Champlain Conference Room & Mezzanine

Join us for a welcome reception! Come mix and mingle with your colleagues. Light refreshments will be available, as well as a cash bar. This reception will be fully vegetarian, in an effort to support our Green Meetings Initiative.

22nd Conference on Middle Atmosphere Virtual Posters

Tuesday, 25 June | 3:00-3:30 PM | Virtual (Onsite viewing in Adirondack D)
All registered attendees (one day or full week) will have access to view this session. Use your confirmation number to sign in to the online program to attend virtually!

22nd Conference on Middle Atmosphere Mixer

Tuesday, 25 June | 6:00-8:00 PM | Lake Champlain Conference Room
The AMS Middle Atmosphere committee will be hosting a networking reception on Tuesday evening oriented at encouraging direct conversations between students/early career researchers (ECRs) and more senior researchers. Pre registration was required.

The Bernhard Haurwitz Memorial Lecture Reception

Wednesday, 26 June | 6:00 - 7:30 PM | Prefunction & North Prefunction
Light refreshments will be available, as well as a cash bar

The Bernhard Haurwitz Memorial Lecture

Wednesday, 26 June | 6:00 - 7:30 PM | Adirondack ABCD
This year's Bernhard Haurwitz Memorial Lecture will be given by Dr. Paul O'Gorman, 2023 Bernhard Haurwitz Memorial Lectureship awardee.

Formal Poster Viewings

All posters will be located in the Green Mountain Ballroom. Formal poster viewings will take place Monday-Thursday, 3:00pm-5:00pm

Poster Set Up and Tear Down Information

<u>Session</u>	<u>Set Up After</u>	<u>Formal Viewing Time</u>	<u>Tear Down By*</u>
Monday	Mon 12:00 PM	3:00-5:00 PM	Mon 6:00 PM
Tuesday	Tues 8:30 AM	3:00-5:00 PM	Tues 6:00 PM
Wednesday	Wed 8:30 AM	3:00-5:00 PM	Wed 6:00 PM
Thursday	Thurs 8:30 AM	3:00-5:00PM	Thurs 5:00 PM

*Note that AMS is not responsible for posters not removed by the tear down time.

Special Needs

It is our sincere desire to comply fully with both the letter and the spirit of the Americans with Disabilities Act of 1990 (ADA). Special housing needs should have been requested when making hotel reservations. Should you need assistance onsite, please see Allison Milliken at the AMS Registration Desk.

Inclusivity at AMS

AMS is committed to creating an environment for meetings that "embraces diversity through the inclusion of individuals across age, gender, race, sex, nationality, ethnicity, physical ability, marital status, sexual orientation, body shape or size, gender identity and expression, socioeconomic status, and other facets of social diversity"

Professional and Respectful Conduct at AMS Meetings

Need to report unprofessional or disrespectful conduct? Email conduct@ametsoc.org or call 617-226-3965.

AMS is committed to safe and inclusive meetings for all attendees. Harassment, intimidation, or discrimination of any kind will not be tolerated at any meeting or event associated with the meeting. All communication should be appropriate for a professional audience including people of many different backgrounds. Be inclusive and respectful.

The recording or transmissions of any education sessions, presentations, demos, videos, or content in any format is strictly prohibited. Participants should not copy or take screenshots of Q&A or any chat room activity that takes place in the virtual space. This statement is meant to cover all meeting-associated events, including those sponsored by organizations other than AMS but held in relation to AMS events. This includes the scientific program, short courses, and exhibitions, as well as receptions, town hall meetings, and other informal or formal gatherings associated with AMS.

Similarly, participants shall adhere to this code of conduct in online spaces related to the meeting and meeting-associated events, including Facebook, Twitter, and other online venues. Those who violate the standards of professional and respectful conduct may be asked to leave the meeting immediately and without refund, may not be considered for service on AMS boards and committees, and may be subject to additional legal action.

Harassment, intimidation, or discrimination includes offensive comments and actions related to age, gender and gender identity, sexual orientation, disability, physical appearance, body size, race, religion; sexual images in public spaces; deliberate intimidation, stalking, or following; harassing photography or recording; sustained disruption of talks or other events; inappropriate physical contact; and unwelcome sexual attention.

As a reminder, during registration you agreed to follow the AMS Professional and Respectful Conduct and the AMS Commitment to Care. This includes wearing a face mask at all times.

If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately either:

- Notify an AMS Staff Member (wearing a blue ribbon at an in person meeting)
- Email conduct@ametsoc.org or call 617-226-3965
- Email AMS Executive Director, Stella Kafka, skafka@ametsoc.org
- If you witness or experience behavior that constitutes an immediate and serious threat, please call 911.

Photo Release: From time-to-time AMS uses photographs of conference events in its promotional materials. Unless this permission is revoked in writing to AMS, by virtue of their attendance all conference visitors agree to the use of their likeness in such materials.

Thank you and enjoy the conference!

Monday, 24 June 2024			
	Adirondack ABC	Adirondack D	
8:30	Idealized Model Approaches to the Atmosphere and Ocean Circulation 8:30: 1.1: Explaining the Curiously Exponential Middepth Stratification Mason Rogers 8:45: 1.2: Understanding Clear-Sky Polar Feedbacks in Radiative-Advection Equilibrium Rodrigo Caballero 9:00: 1.3: Ocean Heat Uptake Efficiency Dependence on the Climate State Laure Zanna 9:15: 1.4: Impacts of Winds on the Atlantic Meridional Overturning Circulation in an Idealized 2D Model Jonathan Tessier 9:30: 1.5: Atmospheric Response to Tropical Thermal Forcing in an Axisymmetric Single-Layer Model Pengcheng Zhang 9:45: 1.6: Limited-Domain Radiative Convective Equilibrium with a Surface-Driven Diurnal Cycle for Understanding the Precipitation Diurnal Cycle Over Land Zhihong Tan	Stratospheric Aerosols - I 8:30: 1.1: Stratospheric Aerosol Property and Process Observations from the NOAA SABRE 2023 Mission (Invited Presentation) Troy Thornberry 8:45: 1.2: Aerosol Chemistry in the Lower Stratosphere Daniel Murphy 9:00: 1.3: Injection Strategy – a Driver of Atmospheric Circulation and Ozone Response to Stratospheric Aerosol Geoengineering Ewa Monika Bednarz 9:15: 1.4: On the Role of Organics from the 2019-2020 Australian Wildfires Affecting Stratospheric Heterogenous Chemistry into 2021 Kane A. Stone 9:30: 1.5: Microphysical Model Simulations of Formation and Spatiotemporal Evolution of Meteoric-Sulfuric Particles in the Stratospheric Aerosol Layer Masaru Yoshioka 9:45: 1.6: The Discovery of Long-lived Stratospheric Aerosol Vortices Bernard Legras	8:30
10:00	AM Coffee Break (Adirondack Prefunction and North Prefunction)		10:00
10:45	Theory of Climate I 10:45: 2.1: A Physics-Based Approach to Defining Extreme Events Marianna Linz 11:00: 2.2: The Higher Order Moments of Mid-Latitude Temperature Variability in Idealized Models of Atmospheric Circulation Cristian Proistosescu 11:15: 2.3: Precipitation Extremes in Radiative Convective Equilibrium with Varied Relative Humidity Robert van der Drift 11:30: 2.4: Extreme Temperatures over a wide range of Climates: Theory and Idealized Simulations Josh Duffield 11:45: 2.5: Diabatic Rossby Vortex World: Finite Amplitude Effects in Moist Cyclogenesis Matthieu Kohl	Stratospheric Aerosols - II 10:45: 2.1: Evolution of the Climate Forcing During the Two Years after the Hunga Tonga-Hunga Ha'apai Eruption (Invited Presentation) Mark R. Schoeberl 11:00: 2.2: The Spread of the Hunga Tonga H ₂ O Plume in the Middle Atmosphere Over the First Two Years Since Eruption Gerald E. Nedoluha 11:15: 2.3: Unravelling the Impacts of the Hunga Volcanic Water Vapor Anomalies on the Stratospheric Circulation Using NASA's Seasonal Prediction System, GEOS-S2S Steven Pawson 11:30: 2.4: Long-Term Temperature Impacts of Hunga in the Stratosphere and Above Xinyue Wang 11:45: 2.5: Stratospheric Chlorine Processing after the Unprecedented Hunga Tonga Eruption (Invited Presentation) Jun Zhang	10:45
12:00	Lunch Break		12:00
1:30	Theory of Climate II 1:30: 3.1: Moving Beyond the Mean to Understand Circulation Extremes Under Climate Change Tiffany A. Shaw 1:45: 3.2: Human Influence on Northern Hemisphere Hadley Circulation and its Constraint on Future Subtropical Precipitation Rei Chemke 2:00: 3.3: Energetic Perspectives on Elevation Dependent Warming Michael P. Byrne 2:15: 3.4: An Energy Balance Model for Glacial Inception Paul Nicknisch 2:30: 3.5: How Sea Ice Warms the Polar Climate Ben Mackay 2:45: 3.6: Sea Ice Perturbations in Aquaplanet Simulations: Isolating the Physical Climate Response from Model Interventions Nicole Feldl	Transport, Mixing and Composition Changes in the Upper Troposphere and Stratosphere - I 1:30: 3.1: Stratosphere-Troposphere Exchange of Ozone: Past, Present and Future Qiang Fu 1:45: 3.2: Sudden Stratospheric Warming Impact on Stratosphere-to-Troposphere Transport of Ozone Jaewon Lee 2:00: 3.3: On the Pattern of Interannual Polar Vortex-Ozone Co-Variability during Northern Hemispheric Winter Thomas Birner 2:15: 3.4: Using Tracer Interrelationships to Understand the Stratospheric Circulation and Mixing Ariana Elena Castillo 2:30: 3.5: An Attempt to Estimate the Source of UTLS Turbulence Using JMA Mesoscale Analysis - A Case Study of ACCLIP Typhoon Flights Shingo Watanabe 2:45: 3.6: Stratospheric Age-of-Air Spectra Derived from Satellite Water Vapor Measurements William Randel	1:30
3:00	Poster Viewing / PM Coffee Break (Green Mountain Ballroom)		3:00
5:00	Dynamics in the Polar Regions 5:00: 4.1: How Warmer Climates Suppress Cold Air Outbreaks Over the Interior of North America Kara Hartig 5:15: 4.2: Observational Evidence of Driving Mechanisms for Recent Antarctic Sea Ice Decline Chloe Boehm 5:30: 4.3: Mechanisms of Variability in the Ross Gyre Scott Conn 5:45: 4.4: Submesoscale Instabilities in Sub-Ice Shelf Cavities Kaylie Cohanin	Transport, Mixing and Composition Changes in the Upper Troposphere and Stratosphere - II 5:00: 4.1: Increasing Age of Stratospheric Air in Late 2023 Following the Hunga Tonga-Hunga Ha'apai Eruption Xin Zhou 5:15: 4.2: Diagnosing the Observed Seasonality and Structure of Water Vapor in the Extratropical Lowermost Stratosphere Emily Nicole Tinney 5:30: 4.3: Stratospheric Water Vapor: What it has Taught Us, and Why Measurements Should Continue Karen H. Rosenlof 5:45: 4.4: Water Vapor Isotopic Composition as a Tracer of Cross-Tropopause Transport in the Asian and North American Monsoons Benjamin Clouser	5:00
6:00	Sessions End for the Day		6:00
6:00	Icebreaker Reception (Lake Champlain Conference Room & Mezzanine)		6:00

Tuesday, 25 June 2024			
	Adirondack ABC	Adirondack D	
8:30	Machine Learning Applied to Geophysical Flows 8:30: 5.1: High-dimensional Covariance Estimation from a Small Number of Samples David Vishny 8:45: 5.2: Hallucinations of AI-Based Models: The Good, the Bad, and the Unstable Y. Qiang Sun 9:00: 5.3: Machine Learning Models Use Large-Scale Information to Predict the Madden-Julian Oscillation Lin Yao 9:15: 5.4: Using Deep Learning to Identify Initial Error Sensitivity of ENSO Forecasts Matt Newman 9:30: 5.5: Learning Divergence, Vorticity and Strain from Sea Surface Height Using Convolutional Neural Networks C Spencer Jones 9:45: 5.6: Neural Gradient Models for Closure of Geostrophic Turbulent Flows Kaushik Srinivasan	The Role of the Stratosphere in S2S Predictability - I 8:30: 5.1: Attributing the Role of Sudden Stratospheric Warming Events in Surface Weather Extremes and Their Impacts: Insights from Snapsi Working Group 2 (Invited Presentation) William J. M. Seviour 8:45: 5.2: Stratospheric Influences on Tropical Convection: Insights from SNAPSI Experiment Shunsuke Noguchi 9:00: 5.3: Assessing Stratospheric Contributions to Sub-seasonal Predictions of Precipitation after the 2018 SSW from SNAPSI Peter Hitchcock 9:15: 5.4: Exploring the Role of Tropospheric Stationary Waves for the North Pacific Response to SSWs Rachel Wai-Ying Wu 9:30: 5.5: The Role of the Stratosphere in Midlatitude Storm Track Persistence Hilla Afargan-Gerstman 9:45: 5.6: Exceptionally Strong Polar Vortex Favoured Intense UK and Northern European Storminess in February 2022 Amanda Maycock	8:30
10:00	AM Coffee Break (Adirondack Prefunction and North Prefunction)		10:00
10:45	Storm Tracks and Jets I 10:45: 6.1: Impact of Parameterized Convection on the Storm Track and Near-Surface Jet Response to Global Warming: Implications for Mechanisms of the Future Poleward Shift Chaim I. Garfinkel 11:00: 6.2: Sea Surface Temperature Forcing of Atmospheric Water Cycle Modulates Storm Track Activity Thomas Spengler 11:15: 6.3: A Lagrangian Perspective on Baroclinic Growth of Midlatitude Storms Or Hadas 11:30: 6.4: Contribution of Cyclones, Fronts, and Atmospheric Rivers to the Maintenance of the North Atlantic Storm Track Andrea Marcheggiani 11:45: 6.5: Quantifying Eddy Generation and Dissipation in the Jet Response to Upper- Versus Lower-Level Thermal Forcing Yu Nie	Future of Middle Atmosphere Research Moderator: Pu Lin Panelists: Eric DeWeaver, Peter Hitchcock, Amanda Maycock, Jessica Neu	10:45
12:00	Lunch Break		12:00
1:30	Storm Tracks and Jets II 1:30: 7.1: Imprint of Diabatic Heating in the Waviness of the Jet Stream Noboru Nakamura 1:45: 7.2: An Eddy Mixing Mechanism for the Northern Hemisphere Winter Circulation Waviness Gang Chen 2:00: 7.3: Large Sampling Uncertainty When Diagnosing the "Eddy Feedback Parameter" and Its Role in the Signal-to-Noise Paradox Amanda Maycock 2:15: 7.4: Instantaneously Detecting Subtropical and Eddy-Driven Jets Resolves Conundrum about Mid-Winter Suppression Clemens Spensberger 2:30: 7.5: Revisiting the Reanalysis-Model Discrepancy in Southern Hemisphere Winter Storm Track Trends Joonsuk M. Kang 2:45: 7.6: Modulations in Storm-track Activity and Transient Eddy Structure Associated with the Southern Hemisphere Baroclinic Annular Mode Hisashi Nakamura	The Role of the Stratosphere in S2S Predictability - II 1:30: 7.1: The Role of the Stratospheric State in Upward Wave Propagation during Sudden Stratospheric Warmings in SNAPSI Experiments Blanca Ayarzagüena 1:45: 7.2: Meridional Wind in the Upper Stratosphere: Is it Time to Pay Attention? Elizabeth Collingwood 2:00: 7.3: Diversity of Stratospheric Error Growth across Subseasonal Prediction Systems Robert William Lee 2:15: 7.4: Stratospheric Influences on Forecast Uncertainty: How Sudden Stratospheric Warmings Modify Ensemble Spread of Subseasonal Forecasts in the Stratosphere and Troposphere Philip Rupp 2:30: 7.5: Evolution and Wave Forcing of the QBO in the Subseasonal Forecast Models Hamid A. Pahlavan 2:45: 7.6: Understanding the Role of the QBO in the Predictability of the Northern Hemisphere Weather Froila M. Palmeiro	1:30
3:00	Poster Viewing / PM Coffee Break (Green Mountain Ballroom)		3:00
5:00	Waves, Mean Flow, and The General Circulation I 5:00: 8.1: Resonant Excitation of Kelvin Waves by Interactions of Subtropical Rossby Waves and the Zonal Mean Flow Katharina Meike Holube 5:15: 8.2: Identification of Coupling Between the Baroclinic and Barotropic Annular Modes Using Transient Eddy Energetics Joseph M. Battalio 5:30: 8.3: The Three-Way Feedback Between Rossby Wave Breakings, Circulation Regimes, and Surface Weather in the North Atlantic Talia Tamarin-Brodsky 5:45: 8.4: Quantifying the Relation Between Jet Meandering and Extreme Events Erez Aviv	Long-term Reanalysis, Observational Datasets and Future Observational Needs 5:00: 8.1: The Imminent Data Desert and The Future of Stratospheric Science in a Rapidly Changing World (Invited Presentation) Jessica B. Smith 5:15: 8.2: A Simple Model for Observationally-Derived Lifetimes of Trace Gases Destroyed in the Stratosphere Stephen Bourguet 5:30: 8.3: Rapidly Observable Temperature Signals Following Stringent Climate Mitigation Amanda Maycock 5:45: 8.4: Routes to providing continuity for observations from NASA's Aura Microwave Limb Sounder (MLS) Nathaniel J. Livesey	5:00
6:00	Sessions End for the Day		6:00
6:00	22Middle Atmosphere Mixer (Lake Champlain Conference Room)		6:00

Wednesday, 26 June 2024			
	Adirondack ABC	Adirondack D	
8:30		Climate Variability and Projection in the Middle Atmosphere - I 8:30: 9.1: The Stratospheric Atlantic Anticyclone Stephen J. Colucci 8:45: 9.2: The Role of the North Pacific Latent Heating in Driving the Pacific-North American Teleconnection Pattern during Boreal Winter Mingyu Park 9:00: 9.3: Amplified Decadal Variability of Extratropical Surface Temperatures by Stratosphere-Troposphere Coupling Amy H. Butler 9:15: 9.4: Investigating the Stratospheric Decadal Variability and its Linkage with North Atlantic and North Pacific Circulation Liping Wang 9:30: 9.5: Disentangling the Impact of Interactive Ozone and Surface Warming to the Lower Stratospheric Circulation Response to Increased CO2 Molly E Menzel 9:45: 9.6: Transient and Seasonal Response of Southern Ocean Sea Surface Temperature and Antarctic Sea Ice to Stratospheric Ozone Recovery Feng Li	8:30
10:00	AM Coffee Break (Adirondack Prefunction and North Prefunction)		10:00
10:45		Gravity Waves in the Middle Atmosphere: Observations, Modeling, and Theory - I 10:45: 10.1: Representation of Tropical Gravity Waves in Very-High-Vertical Resolution Global Simulations Martina Bramberger 11:00: 10.2: How Well Do High-Resolution Stratosphere-Resolving Models Simulate Atmospheric Gravity Waves? Corwin Wright 11:15: 10.3: ENSO, the IOD, and Their Contribution to QBO-Disrupting Gravity Wave Drag Paul W. Staten 11:30: 10.4: Comparison between Non Orographic Gravity Wave Parameterizations Used in QBOI Models and Strateole 2 Constant Level Balloons Francois Lott 11:45: 10.5: The Effect of Transient Lateral Internal Gravity Wave Propagation on the Resolved Atmosphere in ICON/MS-GWaM Georg Sebastian Voelker	10:45
12:00	Lunch Break		12:00
1:30	Oceanic Cross-Scale Interactions 1:30: 11.1: The Deep Internal Wave fFeld in the Gulf of Lion: What are Ocean General Circulation Models Missing? Marie-Pascale G. Lelong 1:45: 11.2: Tidally Driven Shear Convection Along a Submarine Canyon in the Rockall Trough Yuchen Ma 2:00: 11.3: Maintenance of the Zonal Momentum Balance of the Antarctic Circumpolar Current By Barotropic Dynamics Xihan Zhang 2:15: 11.4: Distinct Impacts of Topographic Versus Planetary PV Gradients on Baroclinic Turbulence Peng Deng 2:30: 11.5: Baroclinic Turbulence above Rough Topography Matthew Pudig 2:45: 11.6: The Role of Surface Potential Vorticity in the Vertical Structure of Mesoscale Eddies in Wind-Driven Ocean Circulations Wenda Zhang	Climate Variability and Projection in the Middle Atmosphere - II 1:30: 11.1: Assessing the Dynamic Modes and Predictability in Stratosphere-Troposphere Coupling of the Annular Modes in CMIP6 Models Gang Chen 1:45: 11.2: On the Bias of the Stratospheric Polar Vortex Strength in Boreal Winter in CMIP6 Models Alvaro de la Camara 2:00: 11.3: A Forensic Investigation of a Climate Model Teleconnection Bias: The Case of the Relationship between ENSO and Stratospheric Polar Vortex Variability Xiaocen Shen 2:15: 11.4: The Effects of Increased Vertical Resolution and Interactive Ozone on QBO Related Couplings Natasha Trencham 2:30: 11.5: A Potential Vorticity View of the Holton-Tan Effect Hua Lu 2:45: 11.6: Large Ensembles Unveil Quantitative Impact of El Niño-Southern Oscillation and Quasi-Biennial Oscillation on Northern Hemisphere Stratosphere-Troposphere Coupling Kohei Yoshida	1:30
3:00	Poster Viewing / PM Coffee Break (Green Mountain Ballroom)		3:00
5:00	Waves and Circulation: Connection Across Scales (Joint with 24th Conference on Atmospheric & Oceanic Fluid Dynamics) (Adirondack ABCD) 5:00: J12.1: Importance of Internal Gravity Waves for Extratropical Stratospheric Variability and Climatology as Revealed by ERA5 (Invited Presentation) Aman Gupta 5:15: J12.2: Global Ocean Cascades and a Direct Gyrescale-Mesoscale Energy Pathway Induced by the Atmosphere Benjamin Aaron Storer 5:30: J12.3: A Local Wave Activity Interpretation of the Large Scale Drivers Behind the Projected Drying of the Mediterranean Dor Sandler 5:45: J12.4: Coupled Stratospheric Ozone and Atlantic Meridional Overturning Circulation Feedbacks on the Northern Hemisphere Midlatitude Jet Response to 4xCO2 Darryn W. Waugh		5:00
6:00	Bernhard Haurwitz Memorial Lecture Reception (Adirondack Prefunction and North Prefunction)		6:00
6:30	The Bernhard Haurwitz Memorial Lecture (Adirondack ABCD) 6:30: L1.1: Role of Water Vapor in the Response of the Atmosphere and Ocean to Warming from Convective to Planetary Scales Paul O'Gorman		6:30
7:30	Sessions End for the Day		7:30

Thursday, 27 June 2024			
	Adirondack ABC	Adirondack D	
8:30	Mesoscale and Submesoscale Ocean Dynamics 8:30: 13.1: Toward Ocean Mesoscale Resolving Climate Simulations Raffaele Ferrari 8:45: 13.2: Eddy Killing and the Double (turbulent) Ekman Layer David Nicholas Straub 9:00: 13.3: Passive Tracer Dispersion in Oceanic Mesoscale and Submesoscale Flows Jim Thomas 9:15: 13.4: Vertical Structure of Transport by Ocean Mesoscale Turbulence Julie Meunier 9:30: 13.5: Inferring Tracer Diffusivity from Oceanic Coherent Mesoscale Eddies Christopher L. P. Wolfe 9:45: 13.6: Observational Evidence for a Strongly Seasonal Mesoscale Kinetic Energy Cascade in the Global Surface Ocean Scott Martin	Modeling and Theory of the Middle Atmosphere (Joint with 24th Conference on Atmospheric & Oceanic Fluid Dynamics) - I 8:30: J13.1: Decomposition of Vertical Velocity and Divergence in the Spherical, Hydrostatic Atmosphere Nedjeljka Žagar 8:45: J13.2: On Alleviating Semi-Annual Oscillation Wind Biases in Climate Models Aleena Moolakkunnel Jaison 9:00: J13.3: Developing a New Stratospheric Mixing Diagnostic Using an Idealized General Circulation Model Todd Mooring 9:15: J13.4: Exploring Mechanisms for Model-dependency of the Stratospheric Response to Arctic Warming William J M Seviour 9:30: J13.5: Quantifying the Ozone Radiative Feedback on Planetary-wave and Zonal-mean Variability during the Southern Hemisphere Polar Vortex Breakdown Meryl Chittethazhathu Anil 9:45: J13.6: Development of a High-top Atmospheric General Circulation Model at the Institute of Atmospheric Physics (IAP-HAGCM) Zhaoyang Chai	8:30
10:00	AM Coffee Break (Adirondack Prefunction and North Prefunction)		10:00
10:45	Planetary Atmospheres and Oceans I 10:45: 14.1: Can Heat Reach the Polar Ice Shell on Enceladus? the Modulation Effect of Ice Thickness Variations on Convective Heat Transport Wanying Kang 11:00: 14.2: Non-synchronous Rotation on Europa Driven by Ocean Currents Yosef Ashkenazy 11:15: 14.3: An Oceanic Mechanism for Geyser Formation on Enceladus Daniel Yi-Wei Abdulah 11:30: 14.4: Clouds and Seasonality on Terrestrial Planets with Varying Rotation Rates Daniel Alexander Williams 11:45: 14.5: Reversal of Global-Mean Precipitation Trend in Hothouse Climates Jun Yang	Modeling and Theory of the Middle Atmosphere (Joint with 24th Conference on Atmospheric & Oceanic Fluid Dynamics)-II 10:45: J14.1: Protection without Poison: Why Ozone Maximizes in the Interior of the Atmosphere Aaron L. Match 11:00: J14.2: Vertically Propagating Planetary Waves in Potential Temperature Coordinates Thomas Birner 11:15: J14.3: Dynamics of Anticyclonic Plumes from Wildfires and Volcanic Eruptions in the Stratosphere Aurélien Podglajen 11:30: J14.4: Intrinsic Predictability Limits in Different Atmospheric Layers: From the Troposphere to the MLT Hella Garny 11:45: J14.5: Quantifying Model Uncertainty in the Dynamical and Radiative Adjustment to Stratospheric Heating Colleen Golja	10:45
12:00	Lunch Break		12:00
1:30	Planetary Atmospheres and Oceans II 1:30: 15.1: A Quasi-Geostrophic Model for Jets on Giant Planets Yaoxuan Zeng 1:45: 15.2: The Motion of Jupiter's Polar Cyclones Explained By Vorticity Dynamics and a Center-of-Mass Approach Nimrod Gavriel 2:00: 15.3: Observational Evidence for Cylindrically Oriented Zonal Flows on Jupiter Yohai Kaspi 2:15: 15.4: What Determines the Strength and Extent of the Equatorial Zonal Flows on Jupiter and Saturn? Eli Galanti 2:30: 15.5: Climate in Drier Worlds: Reducing Surface Wetness Leads to Transitions of Hydrological Cycle and Mid-Latitude Circulation Bowen Fan 2:45: 15.6: Clouds, Convection and Circulation from Earth-like to Titan-like Regimes Jonathan Mitchell	Gravity Waves in the Middle Atmosphere: Observations, Modeling, and Theory - II 1:30: 15.1: Acceleration of a Ray Tracing Parameterization of Gravity Wave Momentum Transport David Connelly 1:45: 15.2: Case Study: Summer Convective Gravity Wave Event over Europe Characterized By Lidars, Satellite, All-Sky Imagers and ECMWF Eframir Franco-Diaz 2:00: 15.3: The Stratospheric Gravity Wave Field and Momentum Fluxes Produced by Isolated Supercells David S. Nolan 2:15: 15.4: Increasing Trend and Long-Term Variations of Gravity-Wave Activity as Observed by Aura/MLS in 2004-2024 Dong L. Wu 2:30: 15.5: The Mechanism of the Interhemispheric Coupling Revealed by a Gravity-Wave-Permitting General Circulation Model Haruka Okui 2:45: 15.6: Training Neural Networks for Gravity Wave Parameterizations: Offline-Online Learning and the Significance of Nonlocal Dynamics Hamid A. Pahlavan	1:30
3:00	Poster Viewing / PM Coffee Break (Green Mountain Ballroom)		3:00
5:00	Waves, Mean Flow, and The General Circulation II 5:00: 16.1: Assessing the (Non)Linearity, Regionality, and Vertical Structure of the Hadley Circulation's Response to CO2 Molly E Menzel 5:15: 16.2: Zonal Wavenumber 3 Forces Extreme Precipitation in South America Valentina Ortiz Guzmán 5:30: 16.3: The Intraseasonal North Atlantic Oscillation as a Quasi-semiannual Propagating Disturbance Samuel J Smith 5:45: 16.4: Anticyclonic Suppression of the North Pacific Transient Eddy Activity in Midwinter Satoru Okajima	Gravity Waves in the Middle Atmosphere: Observations, Modeling, and Theory - III 5:00: 16.1: Stratospheric Gravity Waves Excited By a Propagating Rossby Wave Train over the Southern Ocean Andreas Dörnbrack 5:15: 16.2: In Situ Generation of Planetary Waves in the Mesosphere by Zonally Asymmetric Gravity Wave Drag: A Revisit Ji-Hee Yoo 5:30: 16.3: Generation of Secondary Gravity Waves in Idealized UA-ICON Simulations Christoph Zuelicke 5:45: 16.4: Simulated Gravity Wave Momentum Flux and Drag Observations of CAIRT, an ESA Earth Explorer 11 Candidate Sebastian Rhode	5:00
6:00	Sessions End for the Day		6:00
6:00	22Middle Conference Adjourns		6:00

Friday, 28 June 2024		
	Adirondack ABC	
8:30	The General Circulation of the Tropical Atmosphere 8:30: 17.1: Investigating Hadley Cell Extent across Timescales Via the Cell-Mean Rossby Number Spencer A. Hill 8:45: 17.2: Extratropical Eddies Prevent Superrotation in a Terrestrial Aquaplanet Pablo Zurita-Gotor 9:00: 17.3: Non-Uniqueness in ITCZ Latitude in an Idealized GCM Isaac M. Held 9:15: 17.4: Compensating Energy Transport by Mean Circulation and Eddies over the Deep Tropics Simulated in GCMs at Different Resolutions Pu Lin 9:30: 17.5: Tropical Cyclone Frequency and ITCZ Dynamics in Zonally Asymmetric Aquaplanet Simulations Adam C. Burnett 9:45: 17.6: Meridional Overturning Circulations under Finite-Amplitude Wave Activity and Their Implications on Asian Monsoon Onsets Hung-I Lee	8:30
10:00	AM Coffee Break (Adirondack Prefunction and North Prefunction)	10:00
10:45	Tropical Atmospheric Dynamics 10:45: 18.1: The Calm but Variable Inner Life of the Atlantic ITCZ: The Relationship between ITCZ, Doldrums, and Surface Convergence Revisited Julia Miriam Windmiller 11:00: 18.2: Mechanisms of Intertropical Convergence Zone (ITCZ) Edge Intensification: Insight from Idealised Models Martin S. Singh 11:15: 18.3: Weaker Temperature Gradient in a Warmer Climate Heng Quan 11:30: 18.4: When, Where and to What Extent Do Temperature Perturbations near Tropical Deep Convection Follow Convective Quasi Equilibrium? Yi-Xian Li 11:45: 18.5: A Predator-Prey Model for Nonlinear Precipitation Oscillations in Hothouse Climates Da Yang	10:45
12:00	Lunch Break	12:00
1:30	Coupling Between Moisture, Clouds and Circulation 1:30: 19.1: Influence of Subtropical Jets on the Equatorial Spectrum: Implications for Future Changes in Kelvin Wave and MJO Variance Hagar Bartana 1:45: 19.2: Absolute Instability of Moisture-Coupled Waves on the Equatorial Beta-Plane Cameron George MacDonald 2:00: 19.3: The Physical Origin of Tropical Congestus Clouds: A Clear-Sky Convergence Perspective Francisco Spaulding-Astudillo 2:15: 19.4: A Robust Constraint on the Response of Convective Mass Fluxes to Warming Andrew IL Williams 2:30: 19.5: From Linear to Nonlinear: Advancing Data-Driven Convective Parameterization Qiyu Song 2:45: 19.6: Long-Term Trends of the Atmospheric Circulation and Moist Static Energy Budget in the JRA-55 Reanalysis Nili Harnik	1:30
3:00	24AOFD Conference Adjourns	3:00

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Conf	Paper	Day	Time	Location	Conf	Paper	Day	Time	Location
A					F (Continued)				
A. Pahlavan, H.	MIDDLE 7.5	Tue	2:30 PM	Adirondack D	Fan, B.	FLUID 15.5	Thu	2:30 PM	Adirondack ABC
A. Pahlavan, H.	MIDDLE 15.6	Thu	2:45 PM	Adirondack D	Fei, C.	FLUID V2	Thu	1:03 PM	Virtual
Abdulah, D. Y. W.	FLUID 14.3	Thu	11:15 AM	Adirondack ABC	Feld, N.	FLUID 3.6	Mon	2:45 PM	Adirondack ABC
Alfargan-Gerstman, H.	MIDDLE 5.5	Tue	9:30 AM	Adirondack D	Fernandez, E.	MIDDLE 90	Tue	3:00 PM	Green Mountain Ballroom
Allen, D. R.	MIDDLE 36	Mon	3:00 PM	Green Mountain Ballroom	Ferrari, R.	FLUID 13.1	Thu	8:30 AM	Adirondack ABC
Ashkenazy, Y.	FLUID 14.2	Thu	11:00 AM	Adirondack ABC	Finkel, J. M.	FLUID 150	Thu	3:00 PM	Green Mountain Ballroom
Audette, A.	FLUID 4	Mon	3:00 PM	Green Mountain Ballroom	Franco-Diaz, E.	MIDDLE 15.2	Thu	1:45 PM	Adirondack D
Aviv, E.	FLUID 8.4	Tue	5:45 PM	Adirondack ABC	Fu, H.	FLUID 145	Thu	3:00 PM	Green Mountain Ballroom
Ayazzagüena, B.	MIDDLE 7.1	Tue	1:30 PM	Adirondack D	Fu, Q.	MIDDLE 3.1	Mon	1:30 PM	Adirondack D
					Futch, V.	FLUID 156	Thu	3:00 PM	Green Mountain Ballroom
B					G				
Badiane, A.	FLUID 120	Wed	3:00 PM	Green Mountain Ballroom	Galanti, E.	FLUID 75	Tue	3:00 PM	Green Mountain Ballroom
Bai, Y.	FLUID 104	Wed	3:00 PM	Green Mountain Ballroom	Galanti, E.	FLUID 15.4	Thu	2:15 PM	Adirondack ABC
Bakas, N.	MIDDLE 139	Wed	3:00 PM	Green Mountain Ballroom	Garfinkel, C.	MIDDLE 88	Tue	3:00 PM	Green Mountain Ballroom
Bakas, N.	FLUID 182	Thu	3:00 PM	Green Mountain Ballroom	Garfinkel, C.	MIDDLE 89	Tue	3:00 PM	Green Mountain Ballroom
Barpanda, P.	FLUID 78	Tue	3:00 PM	Green Mountain Ballroom	Garfinkel, C. I.	FLUID 26	Mon	3:00 PM	Green Mountain Ballroom
Barpanda, P.	FLUID 180	Thu	3:00 PM	Green Mountain Ballroom	Garfinkel, C. I.	FLUID 6.1	Tue	10:45 AM	Adirondack ABC
Bartana, H.	FLUID 19.1	Fri	1:30 PM	Adirondack ABC	Garfinkel, C. I.	MIDDLE 137	Wed	3:00 PM	Green Mountain Ballroom
Battalio, J. M.	FLUID 13	Mon	3:00 PM	Green Mountain Ballroom	Garny, H.	MIDDLE 114.4	Thu	11:30 AM	Adirondack D
Battalio, J. M.	FLUID 8.2	Tue	5:15 PM	Adirondack ABC	Gavriel, N.	FLUID 15.2	Thu	1:45 PM	Adirondack ABC
Battalio, J. M.	FLUID 111	Wed	3:00 PM	Green Mountain Ballroom	Gayen, B.	FLUID 82	Tue	3:00 PM	Green Mountain Ballroom
Bednarz, E. M.	MIDDLE 1.3	Mon	9:00 AM	Adirondack D	Ge, B.	FLUID 175	Thu	3:00 PM	Green Mountain Ballroom
Benedict, J. J.	MIDDLE 166	Thu	3:00 PM	Green Mountain Ballroom	Goldsmith, E. J.	FLUID 181	Thu	3:00 PM	Green Mountain Ballroom
Bhadouriya, A.	FLUID 49	Tue	3:00 PM	Green Mountain Ballroom	Golja, C.	MIDDLE 114.5	Thu	11:45 AM	Adirondack D
Bhagatani, D.	FLUID 12	Mon	3:00 PM	Green Mountain Ballroom	Gonzalez, A. O.	FLUID 178	Thu	3:00 PM	Green Mountain Ballroom
Birner, T.	MIDDLE 3.3	Mon	2:00 PM	Adirondack D	Gordon, A. E.	MIDDLE 47	Mon	3:00 PM	Adirondack D
Birner, T.	FLUID 17	Mon	3:00 PM	Green Mountain Ballroom	Guendelman, I.	FLUID 146	Thu	3:00 PM	Green Mountain Ballroom
Birner, T.	MIDDLE 114.2	Thu	11:00 AM	Adirondack D	Gupta, A.	MIDDLE 112.1	Wed	5:00 PM	Adirondack ABCD
Boehm, C.	FLUID 4.2	Mon	5:15 PM	Adirondack ABC					
Bourguet, S.	MIDDLE 8.2	Tue	5:15 PM	Adirondack D					
Bramberger, M.	MIDDLE 10.1	Wed	10:45 AM	Adirondack D					
Bramberger, M.	MIDDLE 143	Wed	3:00 PM	Green Mountain Ballroom					
Bremad, V.	MIDDLE 165	Thu	3:00 PM	Green Mountain Ballroom					
Burnett, A. C.	FLUID 17.5	Fri	9:30 AM	Adirondack ABC					
Butler, A. H.	MIDDLE 28	Mon	3:00 PM	Green Mountain Ballroom					
Butler, A. H.	MIDDLE 91	Tue	3:00 PM	Green Mountain Ballroom					
Butler, A. H.	MIDDLE 9.3	Wed	9:00 AM	Adirondack D					
Byrne, M. P.	FLUID 3.3	Mon	2:00 PM	Adirondack ABC					
C					H				
Caballero, R.	FLUID 1.2	Mon	8:45 AM	Adirondack ABC	Hadas, O.	FLUID 6.3	Tue	11:15 AM	Adirondack ABC
Carruthers, A. M.	FLUID 110	Wed	3:00 PM	Green Mountain Ballroom	Hadi Sichani, P.	MIDDLE 140	Wed	3:00 PM	Green Mountain Ballroom
Castillo, A. E.	MIDDLE 3.4	Mon	2:15 PM	Adirondack D	Harnik, N.	FLUID 19.6	Fri	2:45 PM	Adirondack ABC
Chai, Z.	MIDDLE 113.6	Thu	9:45 AM	Adirondack D	Hartig, K.	FLUID 4.1	Mon	5:00 PM	Adirondack ABC
Chang, C. Y.	FLUID 105	Wed	3:00 PM	Green Mountain Ballroom	Hartig, K.	MIDDLE 92	Tue	3:00 PM	Green Mountain Ballroom
Chang, J. Y.	FLUID 81	Tue	3:00 PM	Green Mountain Ballroom	Held, I. M.	FLUID 17.3	Fri	9:00 AM	Adirondack ABC
Chemke, R.	FLUID 3.2	Mon	1:45 PM	Adirondack ABC	Hess, O.	FLUID 66	Tue	3:00 PM	Green Mountain Ballroom
Chemke, R.	FLUID 115	Wed	3:00 PM	Green Mountain Ballroom	Hill, S. A.	FLUID 17.1	Fri	8:30 AM	Adirondack ABC
Chen, G.	FLUID 7.2	Tue	1:45 PM	Adirondack ABC	Hintley, N.	MIDDLE 189	Thu	3:00 PM	Green Mountain Ballroom
Chen, G.	MIDDLE 11.1	Wed	1:30 PM	Adirondack D	Hitchcock, P.	MIDDLE 5.3	Tue	9:00 AM	Adirondack D
Chen, Y. T.	FLUID 97	Wed	3:00 PM	Green Mountain Ballroom	Hitchcock, P.	MIDDLE 96	Tue	3:00 PM	Green Mountain Ballroom
Chen, Y. J.	MIDDLE 135	Wed	3:00 PM	Green Mountain Ballroom	Hogikyan, A.	FLUID 76	Tue	3:00 PM	Green Mountain Ballroom
Chittethazhathu Anil, M.	MIDDLE 113.5	Thu	9:30 AM	Adirondack D	Holt, L. A.	MIDDLE 190	Thu	3:00 PM	Green Mountain Ballroom
Chou, H. H.	FLUID 172	Thu	3:00 PM	Green Mountain Ballroom	Holube, K. M.	FLUID 8.1	Tue	5:00 PM	Adirondack ABC
Chu, P. C.	FLUID 167	Thu	3:00 PM	Green Mountain Ballroom	Homeyer, C. R.	MIDDLE 46	Mon	3:00 PM	Adirondack D
Clark, J. P.	FLUID 98	Wed	3:00 PM	Green Mountain Ballroom	Hood, L. L.	MIDDLE 132	Wed	3:00 PM	Green Mountain Ballroom
Clouser, B.	MIDDLE 4.4	Mon	5:45 PM	Adirondack D	Hudson, J.	FLUID 24	Mon	3:00 PM	Green Mountain Ballroom
Cohanin, K.	FLUID 4.4	Mon	5:45 PM	Adirondack ABC	Hughes, S.	FLUID 10	Mon	3:00 PM	Green Mountain Ballroom
Collingwood, E.	MIDDLE 7.2	Tue	1:45 PM	Adirondack D					
Colucci, S. J.	MIDDLE 9.1	Wed	8:30 AM	Adirondack D					
Conn, S.	FLUID 4.3	Mon	5:30 PM	Adirondack ABC					
Conn, S.	FLUID 183	Thu	3:00 PM	Green Mountain Ballroom					
Connelly, D.	FLUID 7	Mon	3:00 PM	Green Mountain Ballroom					
Connelly, D.	MIDDLE 15.1	Thu	1:30 PM	Adirondack D					
Corcos, M.	MIDDLE V8	Tue	3:03 PM	Virtual					
Coy, L.	MIDDLE 142	Wed	3:00 PM	Green Mountain Ballroom					
Cronin, T.	FLUID 51	Tue	3:00 PM	Green Mountain Ballroom					
Cronin, T.	FLUID 179	Thu	3:00 PM	Green Mountain Ballroom					
Curbelo, J.	MIDDLE 41	Mon	3:00 PM	Adirondack D					
D					J				
Davis, L. L. B.	FLUID 20	Mon	3:00 PM	Green Mountain Ballroom	Jochum, F.	MIDDLE V7	Tue	3:00 PM	Virtual
Davis, S. M.	MIDDLE 39	Mon	3:00 PM	Adirondack D	Jones, C. S.	FLUID 5.5	Tue	9:30 AM	Adirondack ABC
de la Camara, A.	MIDDLE 11.2	Wed	1:45 PM	Adirondack D	Jucker, M.	MIDDLE 93	Tue	3:00 PM	Green Mountain Ballroom
DeFilippis, N.	FLUID 155	Thu	3:00 PM	Green Mountain Ballroom					
Deng, P.	FLUID 11.4	Wed	2:15 PM	Adirondack ABC					
Dey, I.	FLUID 122	Wed	3:00 PM	Green Mountain Ballroom					
Dörnbrack, A.	MIDDLE 158	Thu	3:00 PM	Green Mountain Ballroom					
Dörnbrack, A.	MIDDLE 16.1	Thu	5:00 PM	Adirondack D					
Dü, R. S.	FLUID 9	Mon	3:00 PM	Green Mountain Ballroom					
Duer, K.	FLUID 110A	Wed	3:00 PM	Green Mountain Ballroom					
Duffield, J.	FLUID 2.4	Mon	11:30 AM	Adirondack ABC					
Dula Razzolini, I. M.	FLUID 184	Thu	3:00 PM	Green Mountain Ballroom					
Dykema, J. A.	MIDDLE 34	Mon	3:00 PM	Green Mountain Ballroom					
E					K				
Eckermann, S. D.	FLUID 27	Mon	3:00 PM	Green Mountain Ballroom	Kang, J. M.	FLUID 7.5	Tue	2:30 PM	Adirondack ABC
					Kang, J. M.	FLUID 117	Wed	3:00 PM	Green Mountain Ballroom
					Kang, W.	FLUID 14.1	Thu	10:45 AM	Adirondack ABC
					Karbi, I.	FLUID 14	Mon	3:00 PM	Green Mountain Ballroom
					Kaspi, Y.	FLUID 15.3	Thu	2:00 PM	Adirondack ABC
					Keller, B.	FLUID 71	Tue	3:00 PM	Green Mountain Ballroom
					Kharghani, M.	FLUID 60	Tue	3:00 PM	Green Mountain Ballroom
					Kidd, E.	FLUID 58	Tue	3:00 PM	Green Mountain Ballroom
					Kier, M.	FLUID 22	Mon	3:00 PM	Green Mountain Ballroom
					Kiladis, G. N.	MIDDLE 141	Wed	3:00 PM	Green Mountain Ballroom
					King, R. C.	FLUID 8	Mon	3:00 PM	Green Mountain Ballroom
					Knop, I. Z. S.	MIDDLE V10	Tue	3:09 PM	Virtual
					Kohl, M.	FLUID 2.5	Mon	11:45 AM	Adirondack ABC
					Koshin, D.	MIDDLE 126	Wed	3:00 PM	Green Mountain Ballroom
					Kouhen, S.	FLUID 124	Wed	3:00 PM	Green Mountain Ballroom
					Koul, O.	FLUID 56	Tue	3:00 PM	Green Mountain Ballroom
					Kutikkat Xavier, A.	FLUID 148	Thu	3:00 PM	Green Mountain Ballroom
F					L				
Fajber, R.	FLUID 55	Tue	3:00 PM	Green Mountain Ballroom	Lachmy, O.	FLUID 15	Mon	3:00 PM	Green Mountain Ballroom
					Lai, K. T.	FLUID 149	Thu	3:00 PM	Green Mountain Ballroom
					Lee, H. I.	FLUID 17.6	Fri	9:45 AM	Adirondack ABC
					Lee, J.	MIDDLE 3.2	Mon	1:45 PM	Adirondack D
					Lee, J. E.	FLUID 79	Tue	3:00 PM	Green Mountain Ballroom
					Lee, R. W.	MIDDLE 7.3	Tue	2:00 PM	Adirondack D
					Lee, R. W.	MIDDLE 94	Tue	3:00 PM	Green Mountain Ballroom
					Legras, B.	MIDDLE 1.6	Mon	9:45 AM	Adirondack D
					Lelong, M. P. G.	FLUID 11.1	Wed	1:30 PM	Adirondack ABC
					Li, C.	FLUID 152	Thu	3:00 PM	Green Mountain Ballroom
					Li, F.	MIDDLE 9.6	Wed	9:45 AM	Adirondack D
					Li, F.	FLUID 72	Tue	3:00 PM	Green Mountain Ballroom
					Li, Y.	MIDDLE 32	Mon	3:00 PM	Green Mountain Ballroom
					LI, Y. X.	FLUID 18.4	Fri	11:30 AM	Adirondack ABC
					Lin, J.	MIDDLE 161	Thu	3:00 PM	Green Mountain Ballroom
					Lin, P.	FLUID 17.4	Fri	9:15 AM	Adirondack ABC

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Lin, M.	FLUID 2.1	Mon	10:45 AM	Adirondack ABC	Rea, D.	FLUID 185	Thu	3:00 PM	Green Mountain Ballroom
Liu, S.	MIDDLE 138	Wed	3:00 PM	Green Mountain Ballroom	Regibeau-Rockett, L.	FLUID 121	Wed	3:00 PM	Green Mountain Ballroom
Liu, X.	FLUID 3	Mon	3:00 PM	Green Mountain Ballroom	Reilly, N.	MIDDLE 187	Thu	3:00 PM	Green Mountain Ballroom
Liu, Z.	FLUID 52	Tue	3:00 PM	Green Mountain Ballroom	Rhode, S.	MIDDLE 16.4	Thu	5:45 PM	Adirondack D
Livesey, N. J.	MIDDLE 8.4	Tue	5:45 PM	Adirondack D	Rieck, J. K.	FLUID 61	Tue	3:00 PM	Green Mountain Ballroom
Lombardo, N. A.	FLUID 11	Mon	3:00 PM	Green Mountain Ballroom	Rogers, M.	FLUID 1.1	Mon	8:30 AM	Adirondack ABC
Lombardo, N. A.	FLUID 64	Tue	3:00 PM	Green Mountain Ballroom	Rosenlof, K. H.	MIDDLE 4.3	Mon	5:30 PM	Adirondack D
Lorenzo Sánchez, P.	FLUID 119	Wed	3:00 PM	Green Mountain Ballroom	Rupp, P.	MIDDLE 7.4	Tue	2:15 PM	Adirondack D
Lott, F.	MIDDLE 10.4	Wed	11:30 AM	Adirondack D	Rupp, P.	MIDDLE 162	Thu	3:00 PM	Green Mountain Ballroom
Lu, H.	MIDDLE 11.5	Wed	2:30 PM	Adirondack D	Russo, E.	FLUID 151	Thu	3:00 PM	Green Mountain Ballroom
Lu, Y.	FLUID V5	Thu	1:12 PM	Virtual					
M					S				
Ma, Y.	FLUID 11.2	Wed	1:45 PM	Adirondack ABC	Samad, A.	MIDDLE 127	Wed	3:00 PM	Green Mountain Ballroom
MacDonald, C. G.	FLUID 19.2	Fri	1:45 PM	Adirondack ABC	Sandler, D.	FLUID 113	Wed	3:00 PM	Green Mountain Ballroom
Mackay, B.	FLUID 3.5	Mon	2:30 PM	Adirondack ABC	Sandler, D.	MIDDLE J12.3	Wed	5:30 PM	Adirondack ABCD
Mahó, S. I.	FLUID 177	Thu	3:00 PM	Green Mountain Ballroom	Sayres, D.	MIDDLE 44	Mon	3:00 PM	Adirondack D
Maloney, C.	MIDDLE 29	Mon	3:00 PM	Green Mountain Ballroom	Schoeberl, M. R.	MIDDLE 2.1	Mon	10:45 AM	Adirondack D
Maloney, C.	MIDDLE 30	Mon	3:00 PM	Green Mountain Ballroom	Schwartz, C.	MIDDLE 164	Thu	3:00 PM	Green Mountain Ballroom
Mann, G.	MIDDLE 37	Mon	3:00 PM	Green Mountain Ballroom	Sergeev, D.	FLUID V3	Thu	1:06 PM	Virtual
Marcheggiani, A.	FLUID 6.4	Tue	11:30 AM	Adirondack ABC	Seviour, W. J. M.	MIDDLE 5.1	Tue	8:30 AM	Adirondack D
Marston, J. B.	FLUID 173	Thu	3:00 PM	Green Mountain Ballroom	Seviour, W. J. M.	MIDDLE J13.4	Thu	9:15 AM	Adirondack D
Martin, S.	FLUID 13.6	Thu	9:45 AM	Adirondack ABC	Seviour, W. J. M.	FLUID 174	Thu	3:00 PM	Green Mountain Ballroom
Martinez, V.	MIDDLE 130	Wed	3:00 PM	Green Mountain Ballroom	Shah, H.	FLUID 103	Wed	3:00 PM	Green Mountain Ballroom
Martinez-Claros, J. M.	FLUID 170	Thu	3:00 PM	Green Mountain Ballroom	Shah, K.	MIDDLE 163	Thu	3:00 PM	Green Mountain Ballroom
Match, A. L.	MIDDLE 133	Wed	3:00 PM	Green Mountain Ballroom	Shamir, O.	FLUID 18	Mon	3:00 PM	Green Mountain Ballroom
Match, A. L.	MIDDLE J14.1	Thu	10:45 AM	Adirondack D	Shamir, O.	FLUID 74	Tue	3:00 PM	Green Mountain Ballroom
Maycock, A.	MIDDLE 5.6	Tue	9:45 AM	Adirondack D	Shamir, O.	FLUID 153	Thu	3:00 PM	Green Mountain Ballroom
Maycock, A.	FLUID 7.3	Tue	2:00 PM	Adirondack ABC	Shaw, T. A.	FLUID 3.1	Mon	1:30 PM	Adirondack ABC
Maycock, A.	MIDDLE 8.3	Tue	5:30 PM	Adirondack D	Shen, X.	MIDDLE 95	Tue	3:00 PM	Green Mountain Ballroom
Maycock, A.	FLUID 114	Wed	3:00 PM	Green Mountain Ballroom	Shen, X.	MIDDLE 11.3	Wed	2:00 PM	Adirondack D
Meneghello, G.	FLUID 1	Mon	3:00 PM	Green Mountain Ballroom	Shen, X.	MIDDLE 131	Wed	3:00 PM	Green Mountain Ballroom
Menzel, M. E.	MIDDLE 9.5	Wed	9:30 AM	Adirondack D	Shibu, A.	FLUID V6	Thu	1:15 PM	Virtual
Menzel, M. E.	FLUID 16.1	Thu	5:00 PM	Adirondack ABC	Shultis, J.	FLUID 169	Thu	3:00 PM	Green Mountain Ballroom
Merlis, T. M.	FLUID 2	Mon	3:00 PM	Green Mountain Ballroom	Singh, M. S.	FLUID 18.2	Fri	11:00 AM	Adirondack ABC
Mester, M.	FLUID 54	Tue	3:00 PM	Green Mountain Ballroom	Smith, J. B.	MIDDLE 45	Mon	3:00 PM	Adirondack D
Mester, M.	FLUID 65	Tue	3:00 PM	Green Mountain Ballroom	Smith, J. B.	MIDDLE 8.1	Tue	5:00 PM	Adirondack D
Meunier, J.	FLUID 13.4	Thu	9:15 AM	Adirondack ABC	Smith, K.	MIDDLE 38	Mon	3:00 PM	Green Mountain Ballroom
Mezzina, B.	FLUID 48	Tue	3:00 PM	Green Mountain Ballroom	Smith, S. J.	FLUID 16.3	Thu	5:30 PM	Adirondack ABC
Miller, M.	FLUID 99	Wed	3:00 PM	Green Mountain Ballroom	Song, Q.	FLUID 19.5	Fri	2:30 PM	Adirondack ABC
Min, H. J.	FLUID 154	Thu	3:00 PM	Green Mountain Ballroom	Spaulding-Astudillo, F.	FLUID 19.3	Fri	2:00 PM	Adirondack ABC
Mitchell, J.	FLUID 50	Tue	3:00 PM	Green Mountain Ballroom	Spengler, T.	FLUID 6.2	Tue	11:00 AM	Adirondack ABC
Mitchell, J.	FLUID 15.6	Thu	2:45 PM	Adirondack ABC	Spensberger, C.	FLUID 7.4	Tue	2:15 PM	Adirondack ABC
Miyawaki, O.	FLUID 21	Mon	3:00 PM	Green Mountain Ballroom	Spitzer, R. D.	MIDDLE 186	Thu	3:00 PM	Green Mountain Ballroom
Moolakkunnel Jaison, A.	MIDDLE J13.2	Thu	8:45 AM	Adirondack D	Sreenivas, K.	FLUID 118	Wed	3:00 PM	Green Mountain Ballroom
Moore, D. Jr.	FLUID V4	Thu	1:09 PM	Virtual	Srinivasan, K.	FLUID 5.6	Tue	9:45 AM	Adirondack ABC
Mooring, T.	MIDDLE J13.3	Thu	9:00 AM	Adirondack D	Staten, P. W.	MIDDLE 10.3	Wed	11:15 AM	Adirondack D
Murphy, D.	MIDDLE 1.2	Mon	8:45 AM	Adirondack D	Stewart, A. L.	FLUID 106	Wed	3:00 PM	Green Mountain Ballroom
					Stone, K. A.	MIDDLE 1.4	Mon	9:15 AM	Adirondack D
					Storer, B. A.	MIDDLE J12.2	Wed	5:15 PM	Adirondack ABCD
					Straub, D. N.	FLUID 13.2	Thu	8:45 AM	Adirondack ABC
					Strelnikova, I.	MIDDLE V9	Tue	3:06 PM	Virtual
					Sun, J.	FLUID 25	Mon	3:00 PM	Green Mountain Ballroom
					Sun, Y. Q.	FLUID 5.2	Tue	8:45 AM	Adirondack ABC
					Sun, Y.	MIDDLE 128	Wed	3:00 PM	Green Mountain Ballroom
					Suresan, S.	FLUID 67	Tue	3:00 PM	Green Mountain Ballroom
N					T				
Nain, G.	FLUID V1	Thu	1:00 PM	Virtual	Tamarin-Brodsky, T.	FLUID 8.3	Tue	5:30 PM	Adirondack ABC
Nakamura, H.	FLUID 7.6	Tue	2:45 PM	Adirondack ABC	Tan, Z.	FLUID 1.6	Mon	9:45 AM	Adirondack ABC
Nakamura, N.	FLUID 7.1	Tue	1:30 PM	Adirondack ABC	Tessier, J.	FLUID 1.4	Mon	9:15 AM	Adirondack ABC
Navon, R.	FLUID 168	Thu	3:00 PM	Green Mountain Ballroom	Thomas, J.	FLUID 13.3	Thu	9:00 AM	Adirondack ABC
Nedoluha, G. E.	MIDDLE 2.2	Mon	11:00 AM	Adirondack D	Thomson, S.	FLUID 109	Wed	3:00 PM	Green Mountain Ballroom
Neduhai, V.	FLUID 23	Mon	3:00 PM	Green Mountain Ballroom	Thornberry, T.	MIDDLE 1.1	Mon	8:30 AM	Adirondack D
Newman, M.	FLUID 5.4	Tue	9:15 AM	Adirondack ABC	Tinney, E. N.	MIDDLE 4.2	Mon	5:15 PM	Adirondack D
Nicknash, P.	FLUID 3.4	Mon	2:15 PM	Adirondack ABC	Trencham, N.	MIDDLE 11.4	Wed	2:15 PM	Adirondack D
Nie, Y.	FLUID 6.5	Tue	11:45 AM	Adirondack ABC	Turrell, C.	FLUID 84	Tue	3:00 PM	Green Mountain Ballroom
Ning, W.	MIDDLE V11	Tue	3:12 PM	Virtual					
Noble, P.	MIDDLE 188	Thu	3:00 PM	Green Mountain Ballroom					
Noguchi, S.	MIDDLE 5.2	Tue	8:45 AM	Adirondack D					
Nolan, D. S.	MIDDLE 15.3	Thu	2:00 PM	Adirondack D					
O					U				
O'Gorman, P.	Lecture L1.1	Wed	6:30 PM	Adirondack ABCD	Ueyama, R.	MIDDLE 42	Mon	3:00 PM	Adirondack D
O'Neil, G.	FLUID 147	Thu	3:00 PM	Green Mountain Ballroom	Ueyama, R.	MIDDLE 43	Mon	3:00 PM	Adirondack D
O'Neill, M. E.	FLUID 77	Tue	3:00 PM	Green Mountain Ballroom	Uyeda, K.	FLUID 100	Wed	3:00 PM	Green Mountain Ballroom
Okajima, S.	FLUID 16.4	Thu	5:45 PM	Adirondack ABC					
Okui, H.	MIDDLE 15.5	Thu	2:30 PM	Adirondack D					
Ortiz Guzmán, V.	FLUID 16.2	Thu	5:15 PM	Adirondack ABC					
P					V				
Paldor, N.	FLUID 6	Mon	3:00 PM	Green Mountain Ballroom	Vakrat, E.	FLUID 68	Tue	3:00 PM	Green Mountain Ballroom
Palmeiro, F. M.	MIDDLE 7.6	Tue	2:45 PM	Adirondack D	Valva, C. N.	FLUID 80	Tue	3:00 PM	Green Mountain Ballroom
Palmeiro, F. M.	MIDDLE 129	Wed	3:00 PM	Green Mountain Ballroom	Valva, C. N.	MIDDLE 134	Wed	3:00 PM	Green Mountain Ballroom
Paquette, C. R.	MIDDLE 87	Tue	3:00 PM	Green Mountain Ballroom	Van der Drift, R.	FLUID 2.3	Mon	11:15 AM	Adirondack ABC
Park, M.	MIDDLE 9.2	Wed	8:45 AM	Adirondack D	Vernier, H.	MIDDLE 31	Mon	3:00 PM	Green Mountain Ballroom
Pawson, S.	MIDDLE 2.3	Mon	11:15 AM	Adirondack D	Vishny, D.	FLUID 5.1	Tue	8:30 AM	Adirondack ABC
Podglajen, A.	MIDDLE J14.3	Thu	11:15 AM	Adirondack D	Voelker, G. S.	MIDDLE 10.5	Wed	11:45 AM	Adirondack D
Proistosescu, C.	FLUID 2.2	Mon	11:00 AM	Adirondack ABC					
Pudig, M.	FLUID 11.5	Wed	2:30 PM	Adirondack ABC					
Q					W				
Quan, H.	FLUID 18.3	Fri	11:15 AM	Adirondack ABC	Wang, L.	FLUID 16	Mon	3:00 PM	Green Mountain Ballroom
					Wang, L.	MIDDLE 9.4	Wed	9:15 AM	Adirondack D
					Wang, P. K.	MIDDLE 160	Thu	3:00 PM	Green Mountain Ballroom
					Wang, S.	FLUID 59	Tue	3:00 PM	Green Mountain Ballroom
					Wang, X.	MIDDLE 2.4	Mon	11:30 AM	Adirondack D
					Wargan, K.	MIDDLE 85	Tue	3:00 PM	Green Mountain Ballroom
					Wargan, K.	MIDDLE 86	Tue	3:00 PM	Green Mountain Ballroom
					Watanabe, S.	MIDDLE 3.5	Mon	2:30 PM	Adirondack D
					Waugh, D. W.	MIDDLE J12.4	Wed	5:45 PM	Adirondack ABCD
R									
Randel, W.	MIDDLE 3.6	Mon	2:45 PM	Adirondack D					
Rappin, E.	FLUID 57	Tue	3:00 PM	Green Mountain Ballroom					
Ray, E.	MIDDLE 40	Mon	3:00 PM	Adirondack D					

Conf	Paper	Day	Time	Location	Conf	Paper	Day	Time	Location
W (Continued)					Z				
Weeks, E.	FLUID 53	Tue	3:00 PM	Green Mountain Ballroom	Zagar, N.	MIDDLE J13.1	Thu	8:30 AM	Adirondack D
Weidman, S.	FLUID 83	Tue	3:00 PM	Green Mountain Ballroom	Zanna, L.	FLUID 1.3	Mon	9:00 AM	Adirondack ABC
Weiss, J. B.	FLUID 19	Mon	3:00 PM	Green Mountain Ballroom	Zeng, Y.	FLUID 107	Wed	3:00 PM	Green Mountain Ballroom
White, I.	FLUID 171	Thu	3:00 PM	Green Mountain Ballroom	Zeng, Y.	FLUID 15.1	Thu	1:30 PM	Adirondack ABC
Wilka, C. A.	MIDDLE 144	Wed	3:00 PM	Green Mountain Ballroom	Zhang, J.	MIDDLE 2.5	Mon	11:45 AM	Adirondack D
Williams, A. I.	FLUID 19.4	Fri	2:15 PM	Adirondack ABC	Zhang, P.	FLUID 1.5	Mon	9:30 AM	Adirondack ABC
Williams, D. A.	FLUID 14.4	Thu	11:30 AM	Adirondack ABC	Zhang, W.	FLUID 11.6	Wed	2:45 PM	Adirondack ABC
Williams, P. D.	FLUID 70	Tue	3:00 PM	Green Mountain Ballroom	Zhang, X.	FLUID 11.3	Wed	2:00 PM	Adirondack ABC
Wilson, A.	FLUID 101	Wed	3:00 PM	Green Mountain Ballroom	Zhang, X.	FLUID 112	Wed	3:00 PM	Green Mountain Ballroom
Windmiller, J. M.	FLUID 18.1	Fri	10:45 AM	Adirondack ABC	Zhang, Y.	FLUID 116	Wed	3:00 PM	Green Mountain Ballroom
Winkler, M.	FLUID 176	Thu	3:00 PM	Green Mountain Ballroom	Zhang, Y.	FLUID 63	Tue	3:00 PM	Green Mountain Ballroom
Wolfe, C. L. P.	FLUID 5	Mon	3:00 PM	Green Mountain Ballroom	Zhou, X.	MIDDLE 4.1	Mon	5:00 PM	Adirondack D
Wolfe, C. L. P.	FLUID 13.5	Thu	9:30 AM	Adirondack ABC	Zhu, N.	FLUID 125	Wed	3:00 PM	Green Mountain Ballroom
Wortham, C. J. L.	FLUID 157	Thu	3:00 PM	Green Mountain Ballroom	Zhu, Y.	MIDDLE 35	Mon	3:00 PM	Green Mountain Ballroom
Wright, C.	MIDDLE 10.2	Wed	11:00 AM	Adirondack D	Zuelicke, C.	MIDDLE 159	Thu	3:00 PM	Green Mountain Ballroom
Wu, D. L.	MIDDLE 15.4	Thu	2:15 PM	Adirondack D	Zuelicke, C.	MIDDLE 16.3	Thu	5:30 PM	Adirondack D
Wu, R. W. Y.	MIDDLE 5.4	Tue	9:15 AM	Adirondack D	Zurita-Gotor, P.	FLUID 17.2	Fri	8:45 AM	Adirondack ABC
X									
Xu, T.	FLUID 102	Wed	3:00 PM	Green Mountain Ballroom					
Y									
Yaghoobzadeh, K. D.	MIDDLE 33	Mon	3:00 PM	Green Mountain Ballroom					
Yang, D.	FLUID 18.5	Fri	11:45 AM	Adirondack ABC					
Yang, J.	FLUID 62	Tue	3:00 PM	Green Mountain Ballroom					
Yang, J.	FLUID 14.5	Thu	11:45 AM	Adirondack ABC					
Yang, L.	FLUID 123	Wed	3:00 PM	Green Mountain Ballroom					
Yao, L.	FLUID 5.3	Tue	9:00 AM	Adirondack ABC					
Yao, W.	FLUID 73	Tue	3:00 PM	Green Mountain Ballroom					
Yoo, J. H.	MIDDLE 16.2	Thu	5:15 PM	Adirondack D					
Yoshida, K.	MIDDLE 11.6	Wed	2:45 PM	Adirondack D					
Yoshioka, M.	MIDDLE 1.5	Mon	9:30 AM	Adirondack D					
Yu, W.	MIDDLE 136	Wed	3:00 PM	Green Mountain Ballroom					

ATMOSPHERIC AND OCEANIC FLUID DYNAMICS
(FORMERLY WAVES AND STABILITY)
CONFERENCE SERIES

DATE	LOCATION	CONFERENCE
29 March-2 April 1976	Seattle, WA	(First) Conference on Atmospheric and Oceanic Waves and Stability
23-26 October 1978	Boston, MA	Second Conference on Atmospheric and Oceanic Waves and Stability
20-22 January 1981	San Diego, CA	Third Conference on Atmospheric and Oceanic Waves and Stability
22-25 March 1983	Boston, MA	Fourth Conference on Atmospheric and Oceanic Waves and Stability
4-7 March 1985	New Orleans, LA	Fifth Conference on Atmospheric and Oceanic Waves and Stability
25-28 August 1987	Seattle, WA	Sixth Conference on Atmospheric and Oceanic Waves and Stability
10-14 April 1989	San Francisco, CA	Seventh Conference on Atmospheric and Oceanic Waves and Stability
14-18 October 1991	Denver, CO	Eighth Conference on Atmospheric and Oceanic Waves and Stability
10-14 May 1993	San Antonio, TX	Ninth Conference on Atmospheric and Oceanic Waves and Stability
5-9 June 1995	Big Sky, MT	10th Conference on Oceanic and Atmospheric Waves and Stability
23-27 June 1997	Tacoma, WA	11th Conference on Atmospheric and Oceanic Fluid Dynamics
7-11 June 1999	New York, NY	12th Conference on Atmospheric and Oceanic Fluid Dynamics
4-8 June 2001	Breckenridge, CO	13th Conference on Atmospheric and Oceanic Fluid Dynamics
9-13 June 2003	San Antonio, TX	14th Conference on Atmospheric and Oceanic Fluid Dynamics
13-17 June 2005	Cambridge, MA	15th Conference on Atmospheric and Oceanic Fluid Dynamics
25-29 June 2007	Santa Fe, NM	16th Conference on Atmospheric and Oceanic Fluid Dynamics
8-12 June 2009	Stowe, VT	17th Conference on Atmospheric and Oceanic Fluid Dynamics
13-19 June 2011	Spokane, WA	18th Conference on Atmospheric and Oceanic Fluid Dynamics
16-21 June 2013	Newport, RI	19th Conference on Atmospheric and Oceanic Fluid Dynamics
14-19 June 2015	Minneapolis, MN	20th Conference on Atmospheric and Oceanic Fluid Dynamics
26-20 June 2017	Portland, OR	21st Conference on Atmospheric and Oceanic Fluid Dynamics
24-28 June 2019	Portland, ME	22nd Conference on Atmospheric and Oceanic Fluid Dynamics
13-17 June 2022	Breckenridge, CO	23rd Conference on Atmospheric and Oceanic Fluid Dynamics
24-28 June 2024	Burlington, VT	24th Conference on Atmospheric and Oceanic Fluid Dynamics

MIDDLE ATMOSPHERE CONFERENCE SERIES

DATE	LOCATION	CONFERENCE
15-17 September 1976	Logan, UT	International Conference on the Stratosphere and Related Problems
24-27 October 1978	Boston, MA	Conference on Meteorology of the Upper Atmosphere
20-22 January 1981	San Diego, CA	Third Conference on Meteorology of the Upper Atmosphere
22-25 March 1983	Boston, MA	Fourth Conference on the Upper Atmosphere
23-26 April 1985	Boulder, CO	Fifth Conference on the Meteorology of the Stratosphere and Mesosphere
9-13 March 1987	Baltimore, MD	Sixth Conference on the Dynamics and Chemistry of the Middle Atmosphere
10-14 April 1989	San Francisco, CA	Seventh Conference on the Meteorology of the Middle Atmosphere
5-10 January 1992	Atlanta, GA	Eighth Conference on Middle Atmosphere
6-10 June 1994	Monterey, CA	Ninth Conference on Middle Atmosphere
23-27 June 1997	Tacoma, WA	10 th Conference on Middle Atmosphere
9-14 January 2000	Long Beach, CA	11 th Conference on Middle Atmosphere
4-7 November 2002	San Antonio, TX	12 th Conference on Middle Atmosphere
13-17 June 2005	Cambridge, MA	13 th Conference on Middle Atmosphere
20-24 August 2007	Portland, OR	14 th Conference on Middle Atmosphere
8-12 June 2009	Stowe, VT	15 th Conference on Middle Atmosphere
22-27 January 2011	Seattle, WA	16 th Conference on Middle Atmosphere
17-20 June 2013	Newport, RI	17 th Conference on Middle Atmosphere
4-8 January 2015	Phoenix, AZ	18 th Conference on Middle Atmosphere
26-30 June 2017	Portland, OR	19 th Conference on Middle Atmosphere
6-10 January 2019	Phoenix, AZ	20 th Conference on Middle Atmosphere
12-16 January 2020	Boston, MA	21 st Conference on Middle Atmosphere
24-27 June 2024	Burlington, VT	22 nd Conference on Middle Atmosphere

