

FISAPS Workshop Agenda

August 30

8:30-9:00 AM	Badge Pickup	
9:00-9:15 AM	Workshop Welcome	Marv Geller Karen Rosenlof
9:15-9:30 AM	Workshop Logistics	Jessica Martinez
9:30-10:00 AM	Introduction to the Workshop	Marv Geller
10:00-10:30 AM	The SPARC Gravity Wave Initiative: A Historical Perspective	Robert Vincent
10:30-11:00 AM	Coffee Break	
11:00-11:30 AM	Operational high resolution radiosonde data: the good, bad and the unknown	Bruce Ingleby
11:30 AM-12:00 PM	Very-High-Resolution Radiosonde Data at NCEI	Imke Durre
12:00-12:30 PM	The Use of High Vertical-Resolution (HVRRD) in U. S. Navy NWP: Characteristics and Quality Control Of Operationally Available HVRRD	Patricia Pauley
12:30-1:00 PM	Discussion	
1:00-2:00 PM	Lunch	
2:00-2:30 PM	Characteristics of Atmospheric Turbulence in the Free Atmosphere Estimated using the Thorpe Method And Operational High Vertical-Resolution Radiosonde Data (HVRRD)	Hye-Yeong Chun
2:30-3:00 PM	Estimate of Turbulent Energy Dissipation Rate from the VHF Radar And Radiosonde Observations in the Antarctic	Masashi Kohma

3:00-3:30 PM	Atmospheric Turbulence Measurements and Numerical Modeling	David Fritts
3:30-4:00 PM	Coffee Break	
4:00-4:20 PM	High Resolution In-Situ Turbulence Observation System	Dale Lawrence
4:20-4:40 PM	Evaluating the validity of turbulent kinetic energy dissipation rate derived from one-dimensional velocity fluctuation measurements	Abhiram Doddi
4:40-5:40 PM	Discussion	
5:40-6:10 PM	Recent research progress based on the measurements of high-resolution radiosonde network in China and the Beijing MST radar observations	Yufang Tian

August 31

9:00-9:30 AM	Väisälä 41 Raw and Processed Data	Matti Lehmuskero
9:30-10:00 AM	HVRRD Humidity Measurements	Holger Vömel
10:00-10:20 AM	Temperature Fluctuations of Different Vertical Scales in Raw And Processed US High Vertical-Resolution Radiosonde Data	Ling Wang
10:20-10:50 AM	Coffee Break	
10:50- 11:10 AM	A Climatology of Atmospheric Unstable Layers Revisited	Marvin Geller
11:10-11:30 AM	Boundary Layer Height from Radiosonde Profiles Using an Ensemble estimation Method	Caroline Harten
11:30-11:50 AM	Assimilation of BLH Estimates from HVRRD	Clark Amerault

11:50 AM-12:10 PM	Global Observations of Atmospheric Boundary layer from GPS Radio Occultation	Ghouse Basha
12:10-12:30 PM	High-Vertical Resolution Radiosonde measurements of Stratospheric Volcanic Clouds	Michael Fromm
12:30-1:00 PM	Discussion	
1:00-2:00 PM	Lunch	
2:00-2:30 PM	Methods for prediction of aircraft turbulence and their validation	Robert Sharman
2:30-3:00 PM	Aviation Turbulence Nowcast Systems	Wiebke Deierling
3:00-3:30 PM	Estimation of Turbulence Using Operational HVRRD and Comparison With Aircraft Turbulence Reports	Han-Chang Ko
3:30-4:00 PM	Coffee Break	
4:00-4:30 PM	Measurements of High-Altitude Turbulence from Research Aircraft	Ulrich Schumann
4:30-4:50 PM	Data-driven identification of turbulent flow in the extratropical UTLS based on ERA5 and automated Aircraft turbulence reports	Thorsten Kaluza
4:50-6:00 PM	Discussion	

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9:00-9:30 AM	Climate change and aircraft turbulence	Paul Williams
9:30-9:50 AM	Aircraft observations of gravity wave activity, turbulence and clouds in the tropical tropopause layer	Rachel Atlas
9:50-10:10 AM	Quantifying turbulence in the tropical upper troposphere-lower stratosphere and its impact on transport using high-resolution radiosonde measurements	Aurelien Podglajen
10:10-10:40 AM	Analysis of Atmospheric Gravity Waves Using the U. S. Radiosonde Data	Ling Wang
10:40-11:10 AM	Coffee Break	
11:10-11:40 AM	Evolving patterns of gravity waves in the lower stratosphere from dense radio occultation measurements	William Randel
11:40 AM-12:00 PM	Improving GPS RO- and radiosonde-based gravity wave tomography in the stratosphere	Paul Staten
12:00-12:20 PM	Further Studies of the Notch Feature in Unstable layers in The Tropics	Marvin Geller
12:20 -12:50 PM	Discussion	
12:50-1:50 PM	Lunch	
1:50-2:20 PM	Fine-vertical-scale Waves in the Tropical Tropopause Layer: Observations and Impacts	M. Joan Alexander
2:20-2:50 PM	Fine-scale waves and Shallow Turbulent Layers in the Tropical TTL and lowermost stratosphere	Martina Bramberger

2:50-3:20 PM	To what extent are fine-scale processes and structures near the tropopause important for climate?	Thomas Birner
3:20-3:40 PM	Characteristics and long term trend in tropopause parameters Obtained from US high-resolution Radiosonde data	Aathira K P
3:40-4:10 PM	Coffee Break	
4:10-4:30 PM	Initial Evolution of 15 January 2022 Tonga Volcanic Plume Measurements Inferred from COSMIC-2 RO	Saginela Ravindra Babu
4:30-4:50 PM	High-frequency Radar observations of vertical velocity in the tropical UTLS over Kochi, India	Ajil Kottayil
4:50-6:00 PM	Discussion	