



Monday May 6th: Morning

8:00 Poster boards ready for setup in Ballroom 2 (posters are up the whole meeting)

Talks will be in Ballrooms 3 and 4, which will be configured as one room

Introductory Session

9:00 Introduction from the organizing committee Mark Bourassa (FSU)

- 9:10 CEOS OSVW Virtual Constellation Update Dr. Paul Chang (NOAA/NESDIS), Julia Figa and B.S. Gohil
- 9:30 NASA Programmatic Perspectives: Present Status and the Way Forward Dr. Eric Lindstrom (NASA HQ)
- 9:50 ASCAT backscatter: Mission overview and current developments Ms. Julia Figa Saldana (EUMETSAT)
- 10:10 Break & Poster Viewing (30 minutes)
- 10:40 Discussion (20 minutes)

First Results from OSCAT, HY2A and MetOp-B

Co-chairs: Lucrezia Ricciardulli and Marcos Portabella

- 11:00 Intercomparison of Three Ocean Vector Wind Products from OCEANSAT-2 Scatterometer Professor Naoto Ebuchi (Hokkaido University)
- 11:15 Calibration and Validation of the Advanced Scatterometer on Metop-B Dr. Craig Anderson (EUMETSAT), Julia Figa Saldana, and Julian Wilson
- 11:30 Tandem ASCAT winds and climatologies Dr. Ad Stoffelen (KNMI), Anton Verhoef, Jeroen Verspeek, Jur Vogelzang and Tilly Driesenaar
- 11:45 Wind product developments for the ASCAT, OSCAT and HY2A scatterometer constellation Dr. Ad Stoffelen (KNMI), Anton Verhoef, Jeroen Verspeek, Jur Vogelzang and Tilly Driesenaar
- 12:00 Lunch (60 minutes) at Paddlers

Chair: Mark Bourassa

First Results from OSCAT, HY2A and MetOp-B (continued)Co-chairs: Lucrezia Ricciardulli and Marcos Portabella

- 13:00 Validation of GCOM-W1 geophysical product using in-situ ocean observation Masahisa Kubota, Tsutomu Hihara, Atsushi Okuro, and Hiroyuki Tomita
- 13:15 Discussion (30 minutes)

Calibration/Validation and Climate Records

Chair: Craig Anderson and Doug Vandemark

- 13:45 Cross calibration between QuikSCAT and Oceansat-2 Dr. Sermsak Jaruwatanadilok (Jet Propulsion Laboratory), Bryan W. Stiles, and Alexander Fore
- 14:00 Production and Validation of QuikSCAT Climate Data Product, and Extension of Climate Data Record with OceanSat-2 at Jet Propulsion Laboratory Dr. Alexander Fore (JPL), Bryan Stiles, Alexandra Chau, Brent Williams, Sermsak Jaruwatanadilok, R. Scott Dunbar, and Ernesto Rodríguez
- 14:15 Challenges of Integrating Multiple Scatterometer Observations into a Climate Data Record: The Effect of Diurnal Variability Lucrezia Ricciardulli (Remote Sensing Systems), and Frank Wentz
- 14:30 Platform and Across Swath Comparison of Vorticity Spectra from QuikSCAT, ASCAT, and OSCAT Scatterometers Heather Holbach (COAPS, Florida State University), and Mark A. Bourassa
- 14:45 C-band scatterometers inter-calibration: from ERS-1 to Metop-B Anis Elyouncha (Royal Military Academy of Belgium) and Xavier Neyt

15:00 Break and Poster Viewing (30 minutes)

- 15:15 Towards An Improved ASCAT Wind Product Under Rain Conditions Dr. Marcos Portabella (Instituto de Ciencias del Mar (ICM-CSIC)), Wenming Lin, Ad Stoffelen, Antonio Turiel, Anton Verhoef, and David Weissman
- 15:30 Comparisons of ocean surface wind speeds from CALIPSO, AMSR-E and CloudSat measurements Dr. Yongxiang Hu (NASA Langley Research Center), Damien Josset and Sharon Rodier
- 15:45 Coincident, High Resolution Measurements of Ocean Surface Rain in Support of Improved ASCAT-Retrieved Winds Dr. David Weissman (Hofstra University), T. Johnson, J.Wolf, M.Portabella, W.Lin, A.Stoffelen and A.Verhoef
- 16:00 On The Characteristics Of ASCAT Wind Direction Ambiguities Dr. Wenming Lin (Institut de Ciències del Mar (ICM-CSIC)), Marcos Portabella, Ad Stoffelen, and Anton Verhoef
- 16:30 Detection of the Weakening Westerly Winds in the Pacific Ocean using Satellite-derived Wind Data Set/J-OFURO in Recent Decade Dr. Kunio Kutsuwada (Tokai University), Suguru Kameda and Koh Kamemura
- 16:45 Discussion (30 minutes)
- 17:15 Close for the day

CEOS Dinner (12 people maximum)

8:00 Meeting space open

Oceanography

Co-chairs: Dmitry Dukhovskoy and Kathleen Dohan

- 9:00 Some thoughts on the resolution of satellite sampling patterns, with application to QuikSCAT Dr. Tom Farrar (Woods Hole Oceanographic Institution), Michael Schlax, Dudley Chelton, and Theodore Durland
- 9:15 Toward the assimilation of multiple satellite vector wind data products in a global, eddying, ocean and sea ice model Dr. Dimitris Menemenlis (Jet Propulsion Laboratory, California Institute of Technology), Hong Zhang, and David Moroni
- 9:30 Influence of group velocity on the relative distributions of equatorial wind forcing and oceanic response Dr. Ted Durland (CEOAS, Oregon State University), and Dr. J. Thomas Farrar
- 9:45 Intraseasonal variability of sea surface height in the Bay of Bengal: Remote v.s local wind forcing Professor Shang-Ping Xie (Scripps Institution of Oceanography), Xuhua Cheng, and Julian P. McCreary

10:00 Break & Poster Viewing (30 minutes)

- 10:30 Sensitivity of Ocean Processes in the Nordic Seas to Surface Winds Inferred from the 1/12° Arctic Ocean HYCOM-CICE Dmitry Dukhovskoy (FSU COAPS), and Mark Bourassa
- 10:45 Poleward Shift of Southern Hemisphere Surface Westerly winds: New Insights into interactions between wind stress and the Antarctic Circumpolar Current Dr. Lisan Yu (Woods Hole Oceanographic Institutiton)
- 11:00 Global Coastal Upwelling/Downwelling Estimates from SeaWinds Dr. Steven Morey (COAPS/FSU)
- 11:15 Improving the Turbulence in Time-Dependent OSCAR Wind-Driven Surface Currents Dr. Kathleen Dohan (Earth and Space Research)
- 11:30 Discussion (30 minutes)
- 12:00 Lunch (I hour) at Paddlers

Tuesday May 7th: Afternoon

Surface Fluxes

Chair: Masahisa Kubota and Jim Edson

13:00 Impacts of Sea Surface Temperature Gradients and Surface Roughness Changes on the Motion of Surface Oil: A Simple Idealized Study

Dr. Yangxing Zheng (FSU-COAPS), Mark A. Bourassa, and Paul Hughes

- 13:15 New release of oceanic scatterometer and radiometer turbulent air-sea fluxes Dr. Abderrahim Bentamy (IFREMER), S. Grodsky; K. Katsaros; A. Mestas-Nuñez; J. Hanafin; B. Blanke; and F. Desbiolles
- 13:30 25-Year Consistent Record of High-Resolution Satellite-based Ocean Surface Turbulent Heat and Momentum Fluxes Dr. Lisan Yu (Woods Hole Oceanographic Institutiton), and Xiangze Jin
- 13:45 Estimating the active and total whtiecap coverage globally using satellite-derived winds Mr. Aaron Paget (COAPS, Florida State University), and Mark A. Bourassa
- 14:00 Discussion (30 minutes)

Future Missions

Co-Chairs: Naoto Ebuchi and Ad Stoffelen

- 14:30 The NASA EV-2 Cyclone Global Navigation Satellite System (CYGNSS) Mission (Invited) Professor Christopher Ruf (University of Michigan)
- 14:50 Cyclone Global Navigation Satellite System (CYGNSS) Wind Retrieval Performance (Invited) Professor Christopher Ruf (University of Michigan)

15:05 Break & Poster Viewing (30 minutes)

- 15:35 Global Change Observation Mission (GCOM) (Invited) Professor Haruhisa Shimoda
- 15:55 The Scientific Goals of the RapidScat Mission (Invited) Dr. Ernesto Rodriguez (JPL/CalTech)
- 16:15 ISS-RapidScat Mission, Instrument and Expected Performance (Invited) Dragana Perkovic-Martin, Stephen L. Durden, Alexander Fore, Bryan W. Stiles, Gregory A. Sadowy, Simon A. Collins, Howard J. Eisen, Yuhsyen Shen (presented by <u>Ernesto Rodriguez</u>)
- 16:30 Wind Measurements from Combined Active and Passive L-Band Sensors Dr. Thomas Meissner (Remote Sensing Systems), Lucrezia Ricciardulli, <u>Frank Wentz</u>
- 16:45 Discussion (30 minutes)
- 17:15 Close of day

GCOM-W2 Session (invitation only)

17:30 to 19:30

18:00 Group Dinner (cocktails at 18:00; dinner at 19:00)

8:00 Meeting space open

New Products

- Co-chairs: Julia Figa-Saldana and David Long 9:00 Global 12-year Scatterometer Tropical Cyclone Wind Data Set from QuikSCAT and OceanSAT-2: Validation and Trends in Tropical Cyclone Intensity, Intensification, Size, and Shape Dr. Bryan Stiles (Jet Propulsion Laboratory, California Institute of Technology), Alex G. Fore, Tsae-Pyng J. Shen, W. Lee Poulsen, Michael J. Brennan, and Svetla Hristova-Veleva
- 9:20 Cross-Calibrating OSCAT Land Sigma-0 to Extend the QuikSCAT Land Sigma-0 Climate Record Professor David Long (Brigham Young University)
- Intercomparison of C- and Ku-band scatterometer winds 9:40 Dr. Abderrahim Bentamy (IFREMER), Semyon A. Grodsky, Bertrand Chapron, James A. Carton

10:00 Break & Poster viewing (30 minutes)

- 10:30 Evaluation of modeled diurnally varying sea surface temperatures and the influence of surface winds Ms. Rachel Weihs (COAPS), and Mark A. Bourassa
- 10:45 Towards a Climate Data Record of Ocean Vector Winds: The New RSS ASCAT Dr. Lucrezia Ricciardulli (Remote Sensing Systems), Frank Wentz
- 11:00 A satellite surface wind product benefiting from boundary-layer physics Professor Mark Bourassa (COAPS, Florida State University), Paul J. Hughes and David Moroni
- 11:15 Direct retrieval of stress from scatterometer measurement compared with stress derived from wind retrieval Dr. W. Timothy Liu (Jet Propulsion Laboratory), Wenging Tang and Xiaosu Xie
- 11:30 Discussion (30 minutes)
- 12:00 Lunch (1 hour) at Paddlers

Wednesday May 8th: Afternoon

Meteorology

Co-Chairs: Michael Brennan and Larry O'Neill

- 13:00 Operational Use of ASCAT-A, ASCAT-B, and OSCAT OVW in NOAA Ocean Prediction Center Operations Mr. Joseph Sienkiewicz (NOAA Ocean Prediction Center), Gregory McFadden, Paul Chang, Zorana Jelenak
- 13:15 Status of Scatterometer Winds Assimilation at ECMWF Dr. Giovanna De Chiara (ECMWF), Peter Janssen
- 13:30 The development of applying Metop-B/ASCAT to JMA global analysis Mr. Masami Moriya (Japan Meteorological Agency)
- 13:45 Extratropical Cyclone Hurricane Force Winds Dr. Zorana Jelenak (NOAA/NESDIS/STAR-UCAR), Paul S Chang; Joseph Sienkiewicz, Jerome Patoux, and Qi Zhu
- 14:00 National Hurricane Center Ocean Vector Wind Update Dr. Michael J. Brennan (NOAA/NWS/NCEP National Hurricane Center)
- 14:15 Analysis of Co-located Synthetic Aperture Radar and QuikSCAT Neural-Net Surface Wind Vectors Retrieved in Tropical Cyclones Ralph Foster (APL, University of Washington), Jerome Patoux, Bryan Stiles, Jochen Horstmann, Chris Wackerman, Roland Romeisser, Hans Graber, Mike Caruso
- 14:30 Estimating Winds from Synthetic Aperture Radar in Typhoon Conditions Jochen Horstmann (Center for Maritime Research and Experimentation), C. Wackerman, R. Foster, M. Caruso, R. Romeiser, and H. Graber
- 14:45 Signatures of upscale and downscale energy transfer in the near-surface winds over the Tropical Pacific Dr. Ad Stoffelen (KNMI), Dr. Gregory P. King, Dr. Jur Vogelzang

15:00 Break & Poster viewing (30 minutes)

- 15:30 Dynamics and variability of surface wind speed and divergence over mid-latitude ocean fronts Dr. Larry O'Neill (Oregon State University), Tracy Haack, and Simon de Szoeke
- 15:45 The Response of Surface Wind, Wind Stress and Pressure to SST Variability on Monthly to Seasonal Time Scales Professor James Edson (University of Connecticut), Amanda Plagge and Doug Vandemark
- 16:00 Discussion (30 Minutes)
- 16:30 Wrap up Discussion (30 minutes)
- 17:00 End of day

Posters

New Products

ASCAT Spatial Response Function and Enhanced Resolution Processing Professor David Long (Brigham Young University),

Construction and Validation of Gridded Data Sets of Global Surface Wind Field by Satellite Scatterometer Mr. Suguru Kameda (Tokai University Graduate School of Marine Science and Technology), Kunio Kutsuwada

GMES-PURE: Shaping the marine GMES/COPERNICUS user requirements Ms. Julia Figa Saldana (EUMETSAT), P. Gorringe, H. Bonekamp, G. Dybkjær, K. Nittis, P. Albert

Ocean Winds Team NRT satellite ocean winds processing system overview Ms. Qi Zhu (NOAA)

A New Perspective on Uncertainty in the Cross-Calibrated Wind Vector Climate Data Record David F. Moroni (JPL/Caltech), Mark Bourassa, and Paul Hughes

First Results from OSCAT, HY2A and MetOp-B

NOAA Scatterometer Ocean Surface Wind Vector Retrievals from the OceanSat-2 Mission Dr. Seubson Soisuvarn (NOAA/NESDIS-UCAR), Zorana Jelenak, Suleiman Alsweiss, Paul Chang

Meteorology

A Kinematic Analysis of the MJO by Wind Partitioning Dr. Jerome Patoux (University of Washington), Ángel Adames-Corraliza, Jérôme Patoux, and Ralph C. Foster

Scatterometer Representations of Wind Fields in the Coastal Ocean Along the U. S. West Coast Professor P. Ted Strub (CEOAS, Oregon State University)i and Corinne James

Long-Term Trends, and Lack of Climate Variability, in Upwelling Wind Relaxations off California Professor Melanie Fewings (University of Connecticut – Avery Point), Libe Washburn, Clive E. Dorman, Christopher Gotschalk

Surface wind convergence near oceanic and atmospheric fronts: Comparison of QuikSCAT and WindSAT Dr. Hiroki Tokinaga (IPRC/Univ. of Hawaii), Shang-Ping Xie

Estimation of Sea-Level Pressure Fields during Cyclone Nilam from Oceansat-2 Purna Chand Ch, M.V.Rao, I.V.Ramana, M.M.Ali, J Patoux, M.A.Bourassa

Contribution of Oceansat-2 to Vector Wind Constellation in Characterizing Diurnal Cycle W. Timothy Liu (JPL & CalTech), Wenqing Tang, and Xiaosu Xie

Surface Fluxes

The Effects of Sea Surface Temperature Gradients on Surface Turbulent Heat Fluxes Mr. John Steffen (FSU COAPS), Mark Bourassa and Mr. Paul Hughes

Oceanography

The Effects of Seasonal Wind on the Loop Current and Loop Current Eddy Shedding Robert Nedbor-Gross (Florida State University Center for Ocean-Atmospheric Prediction Studies), Dr. Dmitry Dukhovshoy

Calibration/Validation and Climate Records

ASCAT backscatter: Mission overview and current developments Ms. Julia Figa Saldana (EUMETSAT), C. Anderson, H. Bonekamp, J. Wilson, C. Duff, H. Bauch, and J. Miller