



8:30 Registration

Programmatic Talks

Chair: Mark Bourassa

9:00 Welcome

Mark Bourassa (Florida State University)

9:05 The Ocean Surface Vector Wind Constellation: Status, Health and Future?

Paul Chang (NOAA/NESDIS), Julia Figa Saldana, B.S. Gohil

9:12 NASA Program Status - Ocean Vector Winds Science Team

Eric Lindstrom (NASA Headquarters)

9:20 Status overview of the European Scatterometer activities

Julia Figa-Saldana (EUMETSAT) and Klaus Scipal (ESTEC)

9:27 ISRO's Scatterometry Programme

Raj Kumar (Space Applications Centre) Tapan Misra, Prantik Chakraborty, B S Gohil, Kirti Padia

Oceanographic Applications

Co-Chairs: Steve Morey and Kathleen Dohan

9:35 Evaluation of wind stress curl and divergence represented by CMIP5 models using QuikSCAT and atmospheric reanalysis products

Tong Lee (Jet Propulsion Laboratory)

9:50 OSCAR Mixed Layer and Surface Currents

Kathleen Dohan (Earth and Space Research)

10:05 The Ocean Response to Wind Relaxations off California, U.S.A.

Melanie Fewings (University of Connecticut - Avery Point) Libe Washburn, Clive E. Dorman, Christopher Gotschalk, Kevin S. Brown, Ke Chen, John Bane, Maria Aristizabal, Dylan Oldenburg

Pre-break Poster Highlights (one minute and one slide summaries)

10:13 *The role of wind forcing on sea surface temperature frontal variability in Eastern Boundary Currents*

Renato Castelao (University of Georgia), Yuntao Wang; Yeping Yuan

10:14 Discussion (part 1)

10:30 Break

11:00 Complete (Part 2)

Climate Working Group

Co-Chairs: Frank Wentz and Ad Stoffelen

11:15 Climate WG Summary

Frank Wentz (Remote Sensing Systems), Ad Stoffelen (Invited)

11:30 Discussion

Climate Data Record Development and Analysis

Co-Chair: Frank Wentz and Ad Stoffelen

12:15 From tandem missions to RapidScat – uncovering the diurnal signal in the large-scale circulations. Implications for the climate record of the ocean surface winds.

Svetla Hristova-Veleva (JPL) Ernesto Rodriguez, Ziad Haddad, Bryan Stiles, F. Joseph Turk

12:30 Lunch Break

Tuesday Afternoon

Climate Data Record Development and Analysis (continued)

Co-Chair: Frank Wentz and Ad Stoffelen

- 1:30 A long-term ocean wind and stress vector CDR
Ad Stoffelen (KNMI), Anton Verhoef, Jur Vogelzang, Jos de Kloe, Maria Belmonte, Jeroen Verspeek
- 1:45 Bringing Consistency Among Scatterometer Winds Using Radiometer Observations
Lucrezia Ricciardulli (Remote Sensing Systems), and Frank Wentz
- 2:00 An analysis of the data quality and long term trends in the reprocessed radar backscatter from ASCAT-A
Craig Anderson (EUMETSAT), J Figa-Saldaña, R Huckle, JJW Wilson, F Ticconi, J Miller, C Duff & H Bauch
- 2:15 A 17-Year Climate Record of Diurnal Winds Derived from the TRMM Microwave Imager
Frank Wentz (Remote Sensing Systems), Lucrezia Ricciardulli
- Pre-break Poster Highlights (one minute and one slide summaries)
- 2:30 *Satellite Observation Requirements for Global Trends in Extreme Wind Speed and Wave Height*
Jason Keefer (COAPS, Florida State University), and Dr. Mark A. Bourassa
- 2:31 *A 15-year multiyear/first-year Arctic sea ice climate record from OSCAT and QuikSCAT*
David Long (Brigham Young University) David B. Lindell
- 2:32 *OSCAT Sea Ice Extent Product*
David Long (Brigham Young University) Jordan Hill Waves
- 2:33 Break and Poster Viewing
- 3:15 Towards Homogenization of Scatterometer Wind Retrievals
Abderrahim Bentamy (IFREMER), Semyon A. Grodsky, Bertrand Chapron, and Anis Elyouncha
- 3:30 Decadal change in ocean surface wind circulation: 1988-2014
Lisan Yu (Woods Hole Oceanographic Institution) and 5 collaborators
- 3:45 Assessment of the corrected CMOD5.n ocean backscatter model using ERS scatterometer data
Anis Elyouncha (Royal Military Academy), and Xavier Neyt
- 4:00 Towards the characterization and removal/mitigation of scatterometer wind sampling errors
Ana Trindade (Institut de Ciències del Mar (ICM-CSIC)) M. Portabella, W. Lin, A. Stoffelen and A. Verhoef
- 4:15 Surface Zonal Wind Patterns Along the Equator During El Niño and La Niña in 2000-2015
David Halpern (Jet Propulsion Laboratory)
- 4:30 The role of ocean dynamical processes in determining intraseasonal SST Variability in the tropical Indian Ocean: with implication on MJO initiation
Weiqing Han (Department of atmospheric and oceanic sciences, University of Colorado, Boulder, Co 80309) and Yuanlong Li
- 4:45 Discussion
- 5:15 End of Sessions on Tuesday

Wednesday Morning

Current and Future Ocean Vector Wind Mission Updates

Co-Chairs: Ernesto Rodriguez and Naoto Ebuchi

- 9:00 CYGNSS Mission Update
Chris Ruf (University Of Michigan) Paul Chang, Maria Paola Clarizia, Scott Gleason, Zorana Jelenak, and Aaron Ridley
- 9:07 Update on the Winds and Currents Mission (WaCM)
Mark Bourassa (COAPS & EOAS, Florida State University) Ernesto Rodriguez, Dudley Chelton, Tom Farrar, David Long, Thomas Kilpatrick, Nikolai Maxeminko, Roger Samuelson, Frank Wentz, Shang-Ping Xie
- 9:15 Submesoscale and Mesoscale Ekman Pumping on Scales Shorter than 100 km
Dudley Chelton (Oregon State University)
- 9:30 Simulation and Feasibility Study of Spaceborne Doppler Scatterometer for Ocean Surface Currents and Winds
Xiaolon Dong (National Space Science Center, Chinese Academy of Sciences) Qingliu Bao, Di Zjhu
- 9:45 L-Band High Resolution Remote Sensing of Ocean Surface Winds
Simon Yueh (Jet Propulsion Laboratory, California Institute of Technology) Alexander Fore, Wenqing Tang, and Bryan Stiles
- 10:00 A Method for Quality Assessment of Scatterometer-retrieved wind fields
Zengzhou Hao (The Second Institute of Oceanography, SOA) Delu Pan, Fang Gong and Tianyu Wang
- Pre-break Poster Highlights (one minute and one slide summaries)
- 10:15 *Evaluation and Validation of RapidScat Ocean Surface Vector Winds*
FAOZI SAID (Global Science & Technology Inc // NOAA NESDIS) Seubson Soisuvarn, Paul S. Chang, Zorana Jelenak, Joseph Sienkiewicz, Michael Brennan
- 10:16 *SFMR Reprocessing for High Ocean Winds*
Suleiman Alsheiss (NOAA/NESDIS/STAR) Joe Sapp, Zorana Jelenak, Paul Chang and James Carswell
- 10:17 *X-factor and the spatial response functions of QuikSCAT and RapidScat*
David Long (Brigham Young University) Nathan M. Madsen, and John Neidfeldt
- 10:18 *Evaluation and Validation of Simulated CYGNSS Winds over Large Range of Tropical Cyclones*
Seubson Soisuvarn (NOAA/NESDIS/STAR-UCAR) Faozi Said, Zorana Jelenak, Paul S. Chang
- 10:19 *The Simulation And Performance Analysis Of The CFOSAT RFSCAT*
Risheng Yun (National Space Science Center, Chinese Academy of Sciences) XingouXu, Xiaolong Dong, Di Zhu
- 10:20 *Evaluation of Ocean Vector Wind Data from ISS/RapidScat*
Naoto Ebuchi (Hokkaido University)
- 10:30 Break and Poster Viewing
- 11:00 On the Quality of HY-2A Scatterometer Wind
Wenming Lin (Institut de Ciencies del Mar (ICM - CSIC)) Marcos Portabella, Ad Stoffelen; Anton Verhoef; Youguang Zhang; Mingsen Lin; Juhong Zou; Shuyan Lang
- 11:15 Analysis of Radio Frequency Interference in ASCAT Backscatter Measurements
Julia Figa-Saldana (EUMETSAT) Francesca Ticconi, Craig Anderson, Julian J.W. Wilson
- 11:30 RapidScat Initial Results for Cross-Calibration and Diurnal Cycles
Ernesto Rodriguez (JPL/CalTech) S. Hristova-Veleva
- 11:45 Discussion

Meteorological Applications

Co-Chairs: Tom Kilpatrick and Marcos Portabella

- 12:00 Diurnal wind variability observed by RapidSCAT and comparison to model simulations
Thomas Kilpatrick (Scripps Institution of Oceanography, UCSD) Shang-Ping Xie, Sarah Gille
- 12:15 Using scatterometer-measured vector winds to study high-impact weather events
Timothy Lang (NASA Marshall Space Flight Center) Steven W. Nesbitt, Stella L. Choi, Themis Chronis, George Priftis
- 12:30 Lunch

Wednesday Afternoon

- 1:30 Improving High-Impact Tropical Weather Prediction Using Ocean Vector Wind Data and a High-Resolution Coupled Atmosphere-Wave-Ocean Model
Shuyi Chen (RSMAS/University of Miami) and Brandon Kerns
- 1:45 Estimates of Near-surface Inflow in Tropical Cyclones From Satellite Scatterometers
Ralph Foster (APL, University of Washington) Jun Zhang (NOAA/HRD, Miami, FL); Peter Black (Monterey CA)
- 1:53 National Hurricane Center Ocean Vector Wind Update
Michael Brennan (NOAA/NWS/NCEP/National Hurricane Center)
- 2:00 Hurricane Force Winds in Extratropical Cyclones
Joseph Sienkiewicz (NOAA/NWS Ocean Prediction Center) Benjamin Albright
- 2:15 Study for utilizing high wind speed data on JMA's Global NWP system
Masami Moriya (Japan Meteorological Agency)
- 2:30 Scatterometer winds at Météo-France: usage and new datasets
Christophe Payan (Meteo-France and CNRS), and Vincent Chabot
- Pre-break Poster Highlights (one minute and one slide summaries)
- 2:46 *Offshore wind energy planning map for the Aegean Sea based on Envisat ASAR*
Charlotte Hasager (DTU Wind Energy) Dr. Merete Badger
- 2:47 *Intermittency of surface convergence in mid-latitude storm tracks*
Larry O'Neill (Oregon State University) Tracy Haack, Eric Skyllingstad, Dudley Chelton
- 2:48 *ASCAT observations of downdrafts from mesoscale convective systems*
Thomas Kilpatrick (Scripps Institution of Oceanography, UCSD) Shang-Ping Xie
- 2:49 *Scatterometer surface winds for offshore wind energy applications*
Ioanna Karagali (DTU Wind Energy)
- 2:50 *Neural Network Models of Sea Surface Rainrate Estimation from SeaWinds Data*
David Weissman (Hofstra University), Simona Dobioli, and Anthony Esposito
- 2:51 *Wind stress at the ocean surface from AltiKa measurements*
MM Ali (COAPS/FSU), Mark A. Bourassa, Suchandra A. Bhowmick, Rashmi Sharma and K. Niharika
- 2:52 *Contribution of Monthly and Regional Rainfall to the Strength of Indian Summer Monsoon*
Yangxing Zheng, M. M. Ali, and Mark A. Bourassa
- 3:00 Break and Poster Viewing
- 3:45 Update on the Scatterometer Impact Studies at ECMWF
Giovanna De Chiara (ECMWF), S. J. English, J.R. Bidlot, P.A.E.M. Janssen
- 3:52 An Improved 2DVAR Ambiguity Removal For ASCAT Wind Inversion
Marcos Portabella (Institut de Ciencies del Mar (ICM-CSIC)), Wenming Lin, Jur Vogelzang, Ad Stoffelen, Anton Verhoef
- 4:00 Discussion

Stress Working Group

Chair: Jim Edson; Co-Chair: Mark Bourassa

- 4:30 Stress Summary
Jim Edson (UCONN)
- 4:45 Surface Stress for Hurricane Winds
Mark Bourassa (COAPS & EOAS, Florida State University) Jason Keefer, Mark Powell, Nicole Theberge
- 4:53 Ocean wind stress as measured using satellite radiometer and scatterometer platforms
Doug Vandemark (Univ. of New Hampshire, EOS) and J. Edson, M. Emond
- 5:00 Drag coefficient in tropical cyclones
W Timothy Liu (Jet Propulsion Laboratory) Wenqing Tang, Xiaosu Xie
- 5:08 Initial Discussion (continued tomorrow)

Thursday Morning

Stress Working Group (continued)

Chair: Jim Edson; Co-Chair: Mark Bourassa

9:00 Discussion (continued)

Atmosphere and Ocean Coupling

Co-Chairs: Larry O'Neill and Abderrahim Bentamy

9:30 Air-sea coupling in an eastern boundary current region

Eric Skyllingstad (Oregon State University) R. M. Samelson, D. B. Chelton

9:45 Characterization of the frontal air-sea interaction by spectral response functions

Niklas Schneider (International Pacific Research Center, University of Hawaii) Kazuyoshi Kikuchi

10:00 Impact Of Sub-Cell Wind Variability On ASCAT Wind Quality

Marcos Portabella (Institut de Ciencies del Mar (ICM-CSIC)) Wenming Lin, Ad Stoffelen, Jur Vogelzang, Anton Verhoef

Pre-break Poster Highlights (one minute and one slide summaries)

10:15 *Modeling the diurnal variability of SST*

Ioanna Karagali (DTU Wind Energy) Jacob L. Høyer, and Craig J. Donlon

10:16 *Annual variation of sea surface temperature in the central North Pacific*

Masahisa Kubota (School of Marine Science and Technology, Tokai University) and Tsutomu Hihara

10:17 *Wave and Wind Direction Effects on Ocean Surface Emissivity Measurements*

Heather Holbach (COAPS & EOAS Florida State University) Eric Uhlhorn, Mark Bourassa

10:18 *High-Frequency Wind and Sea Surface Height Variability in the Tropics*

Tom Farrar (Woods Hole Oceanographic Institution) Theodore S. Durland

10:19 *Extreme Coastal Wind Events - What Doesn't the Scatterometer See?*

P. Ted Strub (Oregon State University) Corinne James

10:20 *ASCAT Near-Coastal Wind Retrieval with Land Fraction Thresholding*

David Long (Brigham Young University) Richard D. Lindsley

10:21 *Implications of Scatterometry in Polar Mesocyclone Surface Turbulent Flux Simulations and Reanalysis*

Kyle Ahern and Mark Bourassa

10:22 Discussion (part 1)

10:30 Break and Poster Viewing

11:00 Discussion (part 2)

Coastal Working Group

Co-Chairs: Melanie Fewings, Steve Morey, and Bryan Stiles

11:15 Introduction for Coastal Working Group

Melanie Fewings

11:30 A modified coastal upwelling index accounting for non-local forcing

Steven Morey (COAPS-FSU)

11:45 Impact of fine-scale wind stress curl structures on coastal upwelling dynamics: The Benguela system as a case study

Fabien Desbiolles (LPO (CNRS-Iferemer-IRD-UBO) & LOS (Ifremer)) Bruno Blanke, Abderrahim Bentamy

12:00 Highlights of the ASCAT high resolution processing workshop

Ad Stoffelen (KNMI) Julia Figa

12:15 Bringing Winds Closer to the Coast with QuikSCAT and RapidScat

Alexander Fore (Jet Propulsion Laboratory) Bryan Stiles, Ted Strub, Ernesto Rodriguez

12:30 Lunch

Thursday Afternoon

1:30 Discussion (Coastal Working Group)

New Products and Applications

Co-Chairs: Julia Figa and David Moroni

2:00 Diurnal Wind Variability from RapidScat

Sarah Gille (Scripps Institution of Oceanography, University of California San Diego), San Nguyen, Devon Northcott, Jasper Nutt, Aneesh Subramanian

2:15 All-Weather ISS RapidScat Wind Speeds

Bryan Stiles (Jet Propulsion Laboratory) Alex G. Fore, W. Lee Poulsen and Svetla Hristova-Veleva

2:30 New Ocean Vector Wind Datasets and Services at the NASA PO.DAAC

David Moroni (JPL - PO.DAAC)

Pre-break Poster Highlights (one minute and one slide summaries)

2:38 *NASA Working Group for Best Practices in Data Quality*

David Moroni (JPL - PO.DAAC)

2:39 *A multi-scale L3 gridding of 12.5km QuikSCAT L2B V3 data*

T. Mike Chin (JPL / CalTech) David Moroni, Michelle Gierach, Tony Lee

2:40 *Examining the Variability of Ocean Surface Winds and Precipitation from Near-Coincident RapidScat and GPM Constellation Radiometer Data*

Joe Turk (Jet Propulsion Laboratory, California Institute of Technology) Svetla Hristova-Veleva

2:41 *Calibration of RapidScat σ^0 over Land*

David Long (Brigham Young University) Nathan M. Madsen

2:42 *A Parameterized ASCAT Measurement Spatial Response Function*

Richard Lindsley (Brigham Young University) Craig Anderson, David Long

2:43 *Construction and Intercomparisons of Gridded Data Sets of Global Surface Wind Vector Field by Satellite Scatterometers*

Kunio Kutsuwada (Tokai University) Suguru Kameda

3:00 Break and Poster Viewing

3:30 Diurnal variations of σ^0 over land from RapidScat Observations

David Long (Brigham Young University) Aaron C. Paget, Nathan M. Madsen

3:45 A new GMF for estimating whitecap coverage from Ku-band scatterometers

Aaron Paget (Microwave Earth Remote Sensing, Brigham Young University, Provo, UT)

4:00 Combining wind and rain in spaceborne scatterometer observations: modeling the splash effects in the sea surface backscattering coefficient

Federica Polverari (Sapienza University of Rome - Jet Propulsion Laboratory, California Institute of Technology) F. S. Marzano; L. Pulvirenti; N. Pierdicca; S. M. Hristova-Veleva; F. J. Turk

4:15 Improvement of the CMOD GMF for C-Band Scatterometers

Ad Stoffelen (KNMI), Jeroen Verspeek, Lucrezia Ricciardulli, Gerd-Jan van Zadelhoff

4:23 ASCAT-6.25 product quality

Jurriaan Vogelzang (KNMI) Ad Stoffelen (KNMI) and Richard Lindsley (BYU, MERS lab)

4:30 Relating MSG Rain over the Tropical Atlantic with ASCAT Derived Surface Divergence and Vorticity

Gregory King (Institute of Marine Sciences (ICM-CSIC)) Wenming Lin, Marcos Portabella, Ad Stoffelen, Anton Verhoef

4:45 Cross-Polarized C-band Scatterometer Measurements of the Sea Surface in Moderate Winds

Joe Sapp (NOAA/NESDIS/STAR/SOCD) Suleiman Alsheikh, Zorana Jelenak, Paul Chang, Steve Frasier, James Carswell

5:00 Discussion

5:25 Closing Comments and End of Meeting

Ernesto Rodriguez

Posters
(up throughout the meeting)
(including time of a one minute highlight presentation)

Oceanographic Applications (Tuesday Morning)

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Current and Future Ocean Vector Wind Mission Updates (Wednesday Morning)

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