



International Ocean Vector Wind
Science Team Meeting
May 17-19, 2016



Tuesday Morning

8:30 Registration

Programmatic Talks

Chair: Naoto Ebuchi

- 8:30 Registration and poster setup
- 9:00 Welcome
Naoto Ebuchi (Hokkaido University)
- 9:05 Meeting Introduction
Mark Bourassa (Florida State University)
- 9:10 Global Change Observation Mission (GCOM)
Haruhisa Shimoda (Tokai University)
- 9:25 Ocean Satellite Programs in China
Mingsen Lin (National Satellite Ocean Application Service), Qingtao Song
- 9:40 Status overview of the European Scatterometer activities
Julia Figa-Saldana (EUMETSAT) and Klaus Scipal (ESTEC)
- 9:47 The Ocean Surface Vector Wind Constellation: Status, Health and Future?
Paul Chang (NOAA/NESDIS), Julia Figa-Saldana, Rashmi Sharma
- 9:55 Introduction to the CEOS Virtual Constellation for Sea Surface Temperature (SST-VC) and Group for High Resolution Sea Surface Temperature (GHR SST)
Misako Kachi (Earth Observation Research Center, Japan Aerospace Exploration Agency (JAXA)), Kenneth S. Casey, Anne Ocarroll, Victor Zlotnicki, Craig Donlon, Helen Beggs, Christo Whittle, PK Thapliyal, Peter Minnett, Gary Corlett

Climate Data Record Development and Analysis

Co-Chairs: Lucrezia Ricciardulli and Ad Stoffelen

- 10:07 ASCAT-A And ASCAT-B Cross-Validation
Craig Anderson (EUMETSAT), J Figa-Saldaña, JJW Wilson and F Ticconi
- 10:15 Climate-Quality Intercalibration of Scatterometer Missions
Lucrezia Ricciardulli (Remote Sensing Systems), Frank Wentz
- Pre-break Poster Highlights (one minute and one slide summaries)**
- 10:30 *Intercalibration of Visual Winds from VOS and Scatterometer Winds*
Mark A. Bourassa (Florida State University), Keqiao Li, Mark A. Bourassa, and Shawn R. Smith
- 10:31 *The Impact of Sampling on Accuracy of Trends in Extreme Winds*
Jason Keefer (Florida State University) and Mark A. Bourassa
- 10:32 *The CETB Climate Record: 1978 to the Present*
David Long (Brigham Young University), Mary Jo Brodzik
- 10:33 Break and poster viewing
- 11:15 Extending the Ocean Wind CDR Using Multi-Sensor Wind Speed Intercalibration
Frank Wentz (Remote Sensing Systems), Lucrezia Ricciardulli
- 11:30 ON CLIMATE DATA RECORDS, TRENDS AND EXTREMES
Ad Stoffelen (KNMI), Maria Belmonte Rivas, Anton Verhoef, Tim Bijsterbosch, Federica Aveta, Jur Vogelzang, Jeroen Verspeek, Jos de Klo
- 11:45 Sustained Satellite Surface Vector Wind Observations for Studies of El Nino
David Halpern (Jet Propulsion Laboratory)
- 12:00 Report from Climate Working Group
F. Wentz and Ad Stoffelen
- 12:15 Discussion (Frank Wentz and Ad Stoffelen)

1:00 Lunch Break

Tuesday Afternoon

Current and Future Ocean Vector Wind Mission Updates

Co-Chairs: Ernesto Rodriguez and Xiaolong Dong

- 2:00 RapidScat Update
Glen Havens and Lee Poulson
- 2:15 SMAP Observations of Ocean Surface Wind
Simon Yueh (Jet Propulsion Laboratory), Alexander Fore, Wenqing Tang, Akiko Hayashi, Bryan Stiles, Fuqing Zhang, and Yonghui Weng
- 2:30 The Design and Performance of the SCA Radar carried by the METOP-SG Satellites
Julian Wilson (EUMETSAT),
- 2:45 An Analysis Of Tropical Cyclones In The Northwest Pacific Ocean Using HY-2 Satellite Observations
Yi Zhang (National Satellite Ocean Application Service), Qingtao Song, MingSen Lin
- 3:00 Winds and Currents Mission (WaCM) Update
Mark Bourassa and many others
- 3:08 The Prospects for Future Estimation of Mesoscale and Submesoscale Vorticity by Doppler Scatterometry
Tom Farrar (Woods Hole Oceanographic Institution), Dudley B. Chelton, Roger M. Samelson, Michael G. Schlax, and Jeroen Molemaker

- 3:30 Break and Poster Viewing

- 4:15 Discussion on needs for future missions and constellations

- 4:45 End of day Wrap up

- 5:15 End of Sessions on Tuesday

Wednesday Morning

New Products and Applications (part 1)

Co-Chairs: Marcos Portabella and David Moroni

- 8:30 Registration and poster setup00
- 9:00 An Improved Wind Quality Control For Ku-Band Scatterometers
Wenming Lin (Institute of Marine Sciences (ICM-CSIC)), Marcos Portabella, Ad Stoffelen, Anton Verhoef, Shuyan Lang, Mingsen Lin, Youguang Zhang
- 9:08 Wind Retrieval for Rainy Ocean Surface Using HY-2 Scatterometer Data and TRMM/GPM Rainfall Estimates
Xingou Xu (The CAS Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences), Xiaolong Dong, Shuyan Lang, Di Zhu
- 9:23 Ocean Vector Winds in Storms from the SMAP L-Band Radiometer
Thomas Meissner (Remote Sensing Systems), Lucrezia Ricciardulli, Frank Wentz
- 9:38 Addressing the rain effects on the ocean scattering: a theoretical model of the ocean surface backscattering coefficient in presence of both wind and rain
Federica Polverari (DIET and CETEMPS), F. S. Marzano; L. Pulvirenti; N. Pierdicca; B. W. Stiles; S. M. Hristova-Veleva; and F. J. Turk
- 9:53 Ocean surface scattering investigations at L-band
Doug Vandemark (UNH/EOS), S. Yueh, Tsang, B. Chapron, F. Nouguier
- 10:03 Cross-Polarized C-band Scatterometer Measurements of the Sea Surface in Extreme Winds
Joe Sapp (NOAA/NESDIS/STAR), Suleiman Alsheikh, Zorana Jelenak, Paul Chang, Steve Frasier*, Tom Hartley*
- Pre-break Poster Highlights (one minute and one slide summaries)*
- 10:23 *Combined Active / Passive Retrievals of Ocean Vector Wind and Sea Surface Salinity with SMAP*
Alexander Fore (Jet Propulsion Laboratory), Simon Yueh, Wenqing Tang, Bryan Stiles, Akiko Hayashi
- 10:24 *High resolution estimates of soil moisture from ASCAT*
David Long (Brigham Young University), David B. Lindell
- 10:25 *The gridded sea surface wind data product of the Chinese HY-2 satellite and its application in analysis of extreme sea state*
Xiaomin Ye (National Satellite Ocean Application Service), Qingtao Song, Mingsen Lin, Fei Liao
- 10:26 *Earth Science Data Systems Data Quality Working Group: Year Two Summary*
David Moroni (JPL/PO.DAAC)
- 10:27 *GCOM-W AMSR2 research products*
Takashi Maeda (Japan Aerospace Exploration Agency, Earth Observation Research Center), Mieko Seki, Tomoyuki Nomaki, Keiji Sekiya, and Misako Kachi
- 10:28 *NOAA's SFMR Reprocessing for High Ocean Winds*
Suleiman Alsheikh (NOAA/NESDIS/STAR), Suleiman Alsheikh, Joe Sapp, Zorana Jelenak, Paul Chang and James Carswell
- 10:29 *Evaluating Diurnal Wind Variability in the Tropics*
Sarah Gille (Scripps Institution of Oceanography), Donata Giglio, San Nguyen, Devon Northcott, Aneesh Subramanian
- 10:30 *NetCDF-CF Standard Name Proposal for Sigma-0 Datasets*
Ad Stoffelen, Anton Verhoef, Christoph Reimer, David F Moroni, David G Long, Ernesto Rodriguez, Francesca Ticconi, Frank Wentz, Julia Figa Saldana, Marcos Portabella, Mark Bourassa, Xavier Neyt
- 10:31 Break and poster viewing
- 11:15 Dependency of the Sentinel-1 SAR azimuth wavelength cut-off on significant wave height and wind speed
Giuseppe Grieco (Italian Space Agency), Wenming Lin, Marcos Portabella, Maurizio Migliaccio, Francesco Nirchio
- 11:30 The GNSS Reflectometry Response to the Ocean Surface Winds
Zorana Jelenak, Seubson Soisuvann, Faozi Said and Paul Chang
- 11:45 JAXA's Ocean Environment Monitoring Activities and Himawari Monitor
Misako Kachi (Earth Observation Research Center, Japan Aerospace Exploration Agency (JAXA)), Yukio Kurihara, Hiroshi Murakami, Norimasa Ito, Yasumasa Miyazawa
- 12:00 Construction of New Gridded Product of Surface Wind Vectors over the Global Ocean by Multiple Satellite Observations
Kunio Kutsuwada (Tokai University), Hiroyuki Tomita, Masahisa Kubota, Tsutomu Hihara, Shin-ichiro Kako
- 12:15 Report from Coastal Working Group
- 12:30 Discussion
- 1:00 Lunch (1 hour)

Wednesday Afternoon

New Products and Applications (part 2)

Co-Chairs: Kunio Kutsuwada and Wenming Lin

- 2:00 The Cross-Calibrated Multi-Platform (CCMP) Ocean Vector Wind Analysis (V2.0)
Lucrezia Ricciardulli (Remote Sensing Systems), Joel Scott, Carl Mears, Ross Hoffman[^], Bob Atlas^{*}, and Frank Wentz
- 2:15 Discovering a Decade of Coastal Winds From Scatterometers- Preliminary Data Set
Bryan Stiles (Jet Propulsion Laboratory), Alex G. Fore, P. Ted Strub, and Corinne James
- 2:30 RapidScat Reprocessing and Data Status
Alexander Fore (Jet Propulsion Laboratory), Bryan Stiles, Ernesto Rodriguez
- 2:45 Latest Datasets and Services at the PO.DAAC
David Moroni (JPL/PO.DAAC),
- 2:53 Reconciliation of C and Ku-band Geophysical Model Functions
Ad Stoffelen (KNMI), Z. Wang, J Verspeek, J. Vogelzang, A. Verhoef, L. Ricciardulli
- 3:08 Resolution enhancement for ASCAT
Jur Vogelzang (KNMI) and Ad Stoffelen
- 3:15 Singularity analysis: A powerful technique for scatterometer wind data processing
Marcos Portabella (Institute of Marine Sciences (ICM-CSIC)), Wenming Lin, Ad Stoffelen, Antonio Turiel, Greg King, Anton Verhoef

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

- 3:30 *Multi-sensor Scatterometer Sea Ice Age and Extent*
David Long (Brigham Young University), David B. Lindell, Jordan Hill

3:31 Break and Poster Viewing

4:15 Discussion related to New Products and Applications

4:45 Report from the Stress Working Group
Jim Edson

5:00 Discussion related to the Stress Working Group

5:30 End of Day wrap up

5:40 End of the day

7:00 Dinner (restricted to people that signed up for the dinner)
Asty 45 Building 1F, Kita 4 Nishi 5, Chuo-ku, Sapporo 060-0004
30 min walk (2.3 km) from the meeting venue

Thursday Morning

8:30 Registration and poster setup

Atmosphere and Ocean Coupling and Ocean Applications (Part 1)

Co-Chairs: Steve Morey and Doug Vandemark

- 9:00 A strategy to quantify characteristics of updraft and downdraft events associated with oceanic Mesoscale Convective Systems using ASCAT winds and MSG rain
Gregory King (Institute of Marine Sciences (ICM-CSIC)), Wenming Lin, Marcos Portabella, Ad Stoffelen, Antonio Turiel and Anton Verhoef
- 9:08 Surface and Atmospheric Boundary Layer Responses to Diurnal Variations of Sea Surface Temperature in an NWP model
Ms. Rachel Weihs (Florida State University), Mark Bourassa
- 9:23 An Investigation of the Stability Dependence of SST-Induced Vertical Mixing Over the Ocean in the Operational Met Office Model
Qingtao Song (National Satellite Ocean Application Service), Dudley Chelton, Steve Esbensen, and Andrew Brown
- 9:38 Testing linear dynamics of frontal air-sea interaction
Niklas Schneider (International Pacific Research Center, University of Hawaii at Manoa),
- 9:45 Characterization of the variability of the South Pacific Convergence Zone using satellite and reanalysis wind products
Tong Lee (Jet Propulsion Laboratory), Autumn Kidwell, Young-Heon Jo, Xiao-Hai Yan
- 10:00 High-Impact Weather Prediction: Evaluation Using Ocean Vector Winds for Coupled Air-Sea Modeling of the MJO
Shuyi Chen (RSMAS/University of Miami), Brandon Kerns
- 10:15 Global Observation of Wind Jets Using RapidScat, QuikSCAT, ASCAT, OSCAT and TMI
Ernesto Rodriguez (JPL/CalTech),
Pre-break Poster Highlights (one minute and one slide summaries)
- 10:30 *The 2015-16 El Niño evolution and teleconnections inferred from RapidScat, ASCAT and ECMWF winds: does diurnal variability affect the characterization of El Niño-related wind anomaly?*
Svetla Hristova-Veleva (Jet Propulsion Laboratory, California Institute of Technology), Tong Lee, Bryan Stiles, Ernesto Rodriguez, F. Joseph Turk, Ziad Haddad
- 10:31 *Indian Ocean dynamical influence on tropical intraseasonal oscillations: satellite observations from 1998—2012*
Jason West (University of Colorado Boulder), Weiqing Han
- 10:32 *Examining the Constellation of Scatterometers and Radiometers for Diurnal and Sub-Diurnal Wind Vector Variability*
Joe Turk (Jet Propulsion Laboratory/California Institute of Technology), Svetla Hristova-Veleva
- 10:33 *Evaluation of Coastal Scatterometer Products*
P. Ted Strub (Oregon State University), Corinne James, Bryan Stiles and Alexander Fore
- 10:34 *Causes of regional sea-surface temperature anomalies during U.S. West Coast wind relaxations: The relative importance of surface heat flux and wind stress curl anomalies*
Melanie Fewings (University of Connecticut), Kayla R. Flynn (first author), Melanie R. Fewings (presenting author), Libe Washburn, Christopher Gotschalk
- 10:35 *Winds, eddies and fronts in Eastern Boundary Currents*
Renato Castelao (University of Georgia), Yeping Yuan, Hao Luo
- 10:36 *Investigation of active and passive microwave ocean datasets to infer air-sea interfacial processes*
Doug Vandemark (UNH/EOS), B. Chapron, Y. Quilfen, H. Feng, and A. Mouche
- 10:37 Break and poster viewing

Atmosphere and Ocean Coupling and Ocean Applications (part 2)

Co-Chairs Shuyi Chen and Mark Bourassa

- 11:15 On the Roughness of the Ocean under High Wind Conditions
James Edson (University of Connecticut), Aaron Paget, Doug Vandemark, Marc Emond
- 11:22 Relation between wind and stress under tropical cyclones
W Timothy Liu (Jet Propulsion Laboratory), Wenqing Tand and Xiaosu Xie
- 11:37 OAFlex high-resolution ocean-surface vector wind time series (1987 – 2016): New insights into wind-ocean interaction on meso to planetary scales
Lisan Yu (Woods Hole Oceanographic Institution)
- 11:52 Interannual Variability of Global Coastal Upwelling Inferred from a Satellite Wind-Derived Coastal Upwelling Index Database
Steven Morey (COAPS-FSU)
- 11:59 Towards a Scatterometer-Based High Resolution Ocean Wind Forcing
Ana Trindade (Instituto de Ciencias del Mar (ICM-CSIC)), Marcos Portabella, Ad Stoffelen, Wenming Lin and Jos de Kloe
- 12:07 Using Swath Data for Small Scale Wind-Driven Currents in OSCAR
Kathleen Dohan (Earth and Space Research)
- 12:22 Wind stress and curl anomalies along western North America during the extreme warm ocean events of 2014-16
Melanie Fewings (University of Connecticut), Christopher Gotschalk
- 12:30 Discussion (half hour)

Thursday Afternoon

1:00 Lunch

Meteorological Applications (part 1)

Co-Chairs: Giovanna De Chiara and

- 2:00 Development of a tool for offshore wind resource assessment by satellites for wind industry
Alberto Rabaneda (University of Strathclyde), Matthew Stickland
- 2:15 Evaluation of ocean surface winds from reanalyses in the Nordic Seas
Dmitry Dukhovskoy (FSU), M.A. Bourassa, J. Steffen, G. N. Petersen
- 2:23 Progress in Calculating Tropical Cyclone Inflow from OVW Observations
Ralph Foster (Applied Physics Laboratory, University of Washington), Jun Zhang, NOAA/HRD, Miami, FL; Peter Black, Monterey CA, Peter Black, Monterey CA
- 2:38 Using scatterometer-measured vector winds to study high-impact weather events
Timothy Lang (NASA Marshall Space Flight Center), Themis Chronis, George Priftis, Steve Nesbitt, Piyush Garg
- 2:45 Space Based L-Band Scatterometer and Radiometer Studies of Coincident Ocean Surface Winds and Rain Using SMAP
David Weissman (Hofstra University),
- 3:00 Circumventing rain contamination in scatterometer wind observations
Thomas Kilpatrick (Scripps Institution of Oceanography, UCSD), Shang-Ping Xie

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

- 3:15 *Oceanic heavy rainfall: Role of near-surface dynamic forcing versus thermodynamic profiles*
Timothy Lang (NASA Marshall Space Flight Center), Piyush Garg, Steven Nesbitt, Themis Chronis
- 3:16 *Combined scatterometer and ground radar observations of convective storms*
Timothy Lang (NASA Marshall Space Flight Center), George Priftis, Themis Chronis
- 3:17 *Shear-Relative Boundary Layer Kinematic Asymmetries Observed in Atlantic Hurricanes*
Kyle Ahern (COAPS - Florida State University), Mark A. Bourassa, Robert E. Hart
- 3:18 *ASCAT and RapidScat Vector Winds Comparison*
Aaron Paget (University of Connecticut), Jim Edson
- 3:19 *Update on ASCAT ocean vector wind assimilation in JMA's NWP systems*
Masami Moriya (Japan Meteorological Agency),
- 3:20 *Update of scatterometer winds usage at Météo-France*
Christophe Payan (Météo-France)
- 3:21 *Wind retrieval performance analysis of CFOSAT rotating fan beam scatterometer*
Zhen Li (KNMI), Ad Stoffelen, Jos de Kloe
- 3:22 *The Avoidance of High Winds and Seas by Ships Transiting the Pacific and Atlantic*
Joseph Sienkiewicz (NOAA/NWS Ocean Prediction Center), Lt. Joseph Phillips, Ashley Miller
- 3:23 *Quality Analysis And Process Of Wind Profiler Data On Rain Condition*
LIAO Fei (Guangzhou Meteorology Observatory), Deng Hua
- 3:24 *Possible predictors for the RI and evolution of hurricanes from near-coincident satellite observations of the structure of precipitation and surface winds: Hurricane Joaquin*
Svetla Hristova-Veleva, Ziad Haddad, Bryan Stiles, Tsae-Pyng Shen, Noppasin Niamsuwan, F. Joe Turk, P. Peggy Li, Brian Knosp, Quoc Vu, Bjorn Lambrigtsen, William Poulsen

3:25 Break and Poster Viewing

Meteorological Applications (part 2)

Co-Chairs: Ralph Foster and Tom Kilpatrick

- 4:00 Behavior and Trends of the Extratropical Transition Process and the Influence of External Environmental Factors: Progress Update
Zorana Jelenak (NOAA/NESDIS), Faozi Said, Paul S. Chang, Seubson Soisuvarn, Joseph Sienkiewicz
- 4:08 Towards An Improved Assimilation Of ASCAT-Derived Winds Into Global NWP
Wenming Lin (Institute of Marine Sciences (ICM-CSIC)), Giovanna de Chiara, Marcos Portabella, Ad Stoffelen, Anton Verhoef, Jur Vogelzang
- 4:23 Towards an improved assimilation of scatterometer winds
Giovanna De Chiara (ECMWF), Massimo Bonavita
- 4:38 Scatterometer Response to Ocean Surface Winds and Waves
Dr. Seubson Soisuvarn (NOAA/NESDIS), Faozi Said, Zorana Jelenak, Paul S. Chang
- 4:45 Discussion
- 5:15 **End of meeting wrap up.** Mark Bourassa

5:30 End of meeting

Posters

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

Climate Data Record Development and Analysis

(Tuesday Afternoon)

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New Products and Applications

(Thursday morning and afternoon)

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