Tuesday Morning

8:30 Registration

Programmatic Talks

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 (GHRSSST)
   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

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 setup

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 Scinece 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. Nougquier

10:03 Cross-Polarized C-band Scatterometer Measurements of the Sea Surface in Extreme Winds
Joe Sapp (NOAA/NESDIS/STAR), Suleiman Alsweiss, 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 Alsweiss (NOAA/NESDIS/STAR), Suleiman Alsweiss, 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 Nitchio

11:30 The GNSS Reflectometry Response to the Ocean Surface Winds
Zorana Jelenak, Seubson Soisuvan, 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 Rodrigue

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 poweful 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 Vandermark

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 Nino evolution and teleconnections inferred from RapidScat, ASCAT and ECMWF winds: does diurnal variability affect the characterization of El Nino-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 Vandermark (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 Vandermark, Marc Emond

11:22  Relation between wind and stress under tropical cyclones  
W Timothy Liu (Jet Propulsion Laboratory), Wenqing Tand and Xiaosu Xie

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 OWW 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 (Scipps 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/NESDIS), 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 Lambriigtsen, 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 Soisuvann, 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 Soisuvann (NOAA/NESDIS), Faozi Said, Zorana Jelenak, Paul S. Chang

4:45 Discussion

5:15 End of meeting wrap up.

5:30 End of meeting

Posters
Climate Data Record Development and Analysis  (Tuesday Afternoon)
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