WEDNESDAY MORNING

8:15 Registration and poster set up (posters will be up for the whole meeting)

Programmatic Talks Chair: Mark Bourassa

8:45 Welcome to Portland
5 m Doug Vandemark (Univ. of New Hampshire)
8:40 Meeting Introduction
5 m Mark Bourassa (Florida State University)
8:55 NASA HQ Update
10m Eric Lindstrom and Nadya Vinogradova-Shiffer (NASA HQ; Invited talk)
9:05 The Ocean Surface Vector Wind Satellite Constellation: Status, Health and Future?
10 m Paul Chang (NOAA/NESDIS/Center for Satellite Applications and Research), Stefanie Linow, and Rashmi Sharma
9:20 ISRO Update and Discussion of the Actual Constellation
15 m Raj Kumar (ISRO; Invited talk)
9:35 Status of EUMETSAT scatterometer missions
10 m Stefanie Linow ((EUMETSAT; Invited talk)

Pre-break Poster Highlights (one minute and one slide summaries) Chair: Renee Richardson

10:48 The European Next Generation Scatterometer – SCA
1m Dr. Craig Anderson (EUMETSAT), S Linow, JJW Wilson, F Ticconi.
10:49 Extreme Winds from the Soil Moisture Active Passive Mission
1m Dr. Alexander Fore (Jet Propulsion Laboratory), Simon Yueh, Wenqing Tang, Bryan Stiles, and Akiko Hayashi

9:50 Break and poster viewing (35 minutes)

Current and Future Ocean Vector Wind Mission Updates Chairs: Tim Lang and Xiaolong Dong

10:30 On wind retrieval biases, GMFs, and backscatter calibration
15 m Ad Stoffelen (KNMI), Anton Verhoef, Zhen Li and Zhixiong Wang
10:45 Preliminary Results of Scatterometer of CFOSAT (*New Talk*)
15 m Xiaolong Dong (National Space Science Center, Chinese Academy of Sciences), Di Zhu, Wenming Lin, Risheng Yun, Shuyan Lang and Lei Zhang
11:00 Sea surface winds from the combined scatterometer and altimeter backscatter measurements of HY-2A satellite
15 m Xiuzhong Li (School of Marine Sciences, Nanjing University of Information Science and Technology), Wenming Lin, Baochang Liu and Zhixiong Wang
11:15 Compact Ocean Wind Vector Radiometer Mission Status t
15 m Shannon Brown (Jet Propulsion Laboratory), Paolo Focardi, Amarit Kitiyakara, Frank Maiwald, Oliver Montes, Sharmila Padmanabhan, Richard Redick, Damon Russell, and James Wincentsen
11:30 Estimation of Surface Current Vorticity and Divergence from a Future Winds and Currents Mission (WaCM)
15 m Dudley Chelton (Oregon State University)
11:45 Discussion (10 minutes)

12:00 Lunch (60 minutes)

WEDNESDAY AFTERNOON

Planning and Results for Improved Calibration of Extreme Winds and Stress Co-Chairs: Heather Holbach and Steve Guimond

1:00 Future Updates to the Operational SFMR Algorithm
15 m Heather Holbach (FSU, NGI, NOAA/AOML/HRD)
1:15 Investigation of winds near the ocean surface using airborne Doppler Wind Lidar and dropsondes (Invited)
15 m G. David Emmitt and Steve Greco (Simpson Weather Associates)
1:30 Preliminary inter-comparison of hurricane hunter and buoy wind observations under high wind conditions, using collocations with ASCAT
15 m Federica Polverari (Institute of Marine Sciences (ICM-CSIC)), Wenming Lin, Joseph Sapp, Marcos Portabella, Paul Chang, Zorana Jelenak, Ad Stoffelen, Alexis Mouche and Gerd-Jan van Zadelhoff
1:45 SMAP based Training of All-Weather Wind Speed Retrievals from WindSat and AMSR
15 m Thomas Meissner (Remote Sensing Systems), Lucrezia Ricciardulli and Frank Wentz
2:00 Validation of Scatterometer and Radiometer High Winds Using Oil Platform Anemomters
7 m Andrew Manaster (Remote Sensing Systems), Lucrezia Ricciardulli, and Thomas Meissner
2:10 Discussion (40 m)

Pre-break Poster Highlights (one minute and one slide summaries) Chair: Renee Richardson

2:50 A Comparison of Scatterometers and Buoys in High Wind Conditions
1 m Ethan Wright (Florida State University, COAPS & EOAS) and Mark Bourassa
2:51 Volume Scattering Models for Scatterometer Cross-Calibration
1 m David Long (Brigham Young University) and Evan Chrisney
2:52 Satellite-to-In Situ Wind Data Collocation Using the Distributed Oceanographic Match-Up Service Prototype
1 m Jocelyn Elya (FSU, COAPS), Ed Armstrong, Mark A. Bourassa, Thomas Cram, Maya DeBellis, Frank Greguska, Thomas Huang, Joseph Jacob, Zaihua Ji, Homer McMillan, Nga Quach, Shawn R. Smith, Vardis M. Tsontos, Steven Worley, and Elizabeth Yam
2:53 Latitudinal Circulation Analysis Through Ocean Wind Vector Derivative Fields
1 m Robert Jacobs (Oregon State University) and Larry O'Neill
2:54 Comparing ASCAT and CYGNSS winds near tropical convection
1 m Timothy Lang (NASA MSFC), George Priftis, Piyush Garg, and Steve Nesbitt
2:55 The Diurnal Cycle of ASCAT-Identified Cold Pools and associated Convective Systems in the Maritime Continent and South China Sea
1 m Stephen Nesbitt (University of Illinois Urbana-Champaign), Piyush Garg, Timothy J. Lang, George Priftis and Themis Chronis
2:56 Analysis of the 10 - 20 Day Intraseasonal Oscillations in the Indian Ocean Using Surface Winds from Composite Satellite Data
1 m Yangxing Zheng (Florida State University-COAPS), Mark A. Bourassa and Heather L. Roman-Stork

3:00 Break and poster viewing (40 min)

Climate Data Record Development and Analysis Co-Chairs: Svetla Hristova-Veleva and Marcos Portabella

3:40 Accuracy and Stability of Satellite Winds for Tropical Climate Variability Studies
15 m Lucrezia Ricciardulli (Remote Sensing Systems), Carl Mears, Frank Wentz and Antonietta Capotondi
3:55 Characterizing ERA-interim and ERA5 surface wind biases using ASCAT
15 m Ad Stoffelen (KNMI) and Maria Belmonte Rivas
4:10 Identification and Characterization of Tropical Atmospheric Near-Surface Cold Pools using Space-borne Scatterometer
7 m Piyush Garg (University of Illinois Urbana-Champaign), Stephen W. Nesbitt, Timothy J. Lang, Themis Chronis, George Priftis, Jeffrey D. Thayer and Deanna A. Hence
4:18 Revisiting the Effects of Rain on Ku-band Scatterometers
7 m Carl Mears (Remote Sensing Systems), Lucrezia Ricciardulli, Frank J. Wentz
4:25 Using ASCAT Overlaps to Develop Rain flagging and Corrections for ScatSAT Winds
15 m Bryan W. Stiles (Jet Propulsion Laboratory) and Alexander Fore
4:40 Creating an extended and consistent ESDR of the ocean surface winds, stress and their dynamically-significant derivatives for the period 1999-2022: Step 1 -Product Formulation
15 m Svetla Hristova-Veleva (Jet Propulsion Laboratory), Mark Bourassa, Alexander Fore, Thomas Kilpatrick, David Moroni, Larry O'Neill, Ernesto Rodriguez, Bryan Stiles, Francis Turk, Douglas Vandemark, Alexander Wineteer and Shang-Ping Xie
4:55 Discussion (20 minutes)

5:25 Close of day

THURSDAY MORNING

8:15 Registration and poster set up

New Products and Applications (part 1) Co-Chairs: Giovanna De Chiara and David Moroni

8:45 Doppler capabilities of MetOp-SG SCA
7 m Ad Stoffelen (KNMI), Prof. Peter Hoogeboom and Dr. Paco Lopez Dekker
8:53 Automated Detection of Extratropical Storms from SMAP Winds
7 m Lucrezia Ricciardulli (Remote Sensing Systems) andThomas Meissner)
9:00 Coherent Turbulence in the Boundary Layer of Intense Hurricanes
15 m Stephen Guimond (UMBC and NASA/GSFC), Joe Sapp and Stephen Frasier
9:15 Wind stress along the U.S. East Coast from Coastal QuikSCAT v4.0 fields
15 m Melanie Fewings (Oregon State University), Craig Risien and Kevin Brown
9:30 Evaluation of All-weather Sea Surface Wind Speed Product from GCOM-W/AMSR2 spaceborne microwave radiometer
15 m Naoto Ebuchi

Pre-break Poster Highlights (one minute and one slide summaries) Chair: Renee Richardson

9:48 Investigations of Neural Network-based Ultra High-resolution Wind Retrieval for ASCAT
1 m David Long (Brigham Young University) and Jordan Brown
9:49 Using Scatterometer Data to Assess Patterns and Rates of Global Urban Growth
1 m Professor Steve Frolking (University of New Hampshire) and Tom Milliman
9:50 Development and Early Results of the Surface Heat Flux Product for the CYGNSS Mission\
1 m Juan Crespo (Jet Propulsion Laboratory) and Derek J. Posselt
9:51 Ocean GNSS-R delay-Doppler maps asymmetries induced by specular point inaccuracies
1 m Giuseppe Grieco (Koninklijk Nederlands Meteorologisch Instituut), Dr. Ad Stoffelen, Dr. Marcos Portabella and Dr. Olaf Tuinder
9:52 Using FASTEM to monitor SMOS brightness temperature over the ocean
1 m Giovanna De Chiara (ECMWF), Lars Isaksen, Stephen English
9:53 Application of Coincident Sub-Footprint Scale Winds to Observe the Effect of Sea Surface Vorticity on the RapidScat Scatterometer Ku-Band NRCS
1 m David Weissman (Hofstra University) and Mark A. Bourassa
9:54 NOAA Ocean Winds Science team NRT Satellite Ocean Winds Processing System Overview
1 m Qi Zhu (NOAA/NESDIS/Center for Satellite Applications and Research), Seubson Soisuvarn, Faozi Said, Joe Sapp, Jeonghwan Park, Zorana Jelenak and Paul S. Chang
9:55 The COAPS Simplified Daily Scatterometer Swath Datasets
1 m Jocelyn Elya (Center for Ocean-Atmospheric Prediction Studies) and Mark A. Bourassa
9:56 Update to Identification of the ITCZ Using Ocean Vector Wind Fields During SPURS-2
1 m Aaron C. Paget (Concord University), James B. Edson and Carol Anne Clayson
9:57 Cross-Polarized Ku-band Scatterometer Measurements of the Sea Surface in Extreme Winds
1 m Joe Sapp (NOAA/NESDIS/STAR), Zorana Jelenak, Paul Chang and Steve Frasier
9:58 Sentinel-1 SAR, CyGNSS, and Airborne Scatterometer and Radiometer Measurements of Hurricane Michael
1 m Joe Sapp (NOAA/NESDIS/STAR), Alexis Mouche, Olivier Archer, Faozi Said, Yili Zhao, Zorana Jelenak, Paul Chang and Steve Frasier

10:00 Break and poster viewing (30 min)

New Products and Applications (part 2) Co-Chairs: Lucrezia Ricciardulli and Naoto Ebuchi

10:30 Inconsistencies in scatterometer wind products based on ASCAT and OSCAT-2 collocations
15 m Zhixiong Wang (Nanjing University of Information Science and Technology), Ad Stoffelen, Wenming Lin and Anton Verhoef
10:45 First assessment of the CFOSAT scatterometer wind quality
15 m Wenming Lin (Nanjing University of Information Science and Technology), M. Portabella, S. Lang, Z. Wang and Y. He
11:00 CFOSAT NWP Ocean Calibration
15 m Zhen Li (KNMI), Ad Stoffelen and Jeroen Verspeek
11:15 Preliminary Results of the HY-2B Scatterometer
15 m Juhong Zou (National Satellite Ocean Application Service), Mingsen Lin, Yi Zhang, Zhixiong Wang, Wenming Lin, Ad Stoffelen, and Anton Verhoef
11:30 The JPL SCATSAT Near Real Time Data Product: Calibration, Validation, and Latency
15 m Alexander Fore (Jet Propulsion Laboratory), Alexander Fore, Bryan Stiles, Sermsak Jaruwatanadilok, and Ernesto Rodriguez
11:45 Latest Datasets and Services at the PO.DAAC
7 m David Moroni (Jet Propulsion Laboratory),
11:52 Evaluation of ASCAT superobbing products for NWP data assimilation
15 m Giovanna De Chiara (ECMWF), W. Lin, M. Portabella, J. Vogelzang, L. Isaksen, and A. Stoffelen

12:07 Lunch break (1 hour)

THURSDAY AFTERNOON

Atmosphere and Ocean Coupling Co-Chairs: Larry O'Neill and Tony Lee

1:00 Fundamental Response Patterns of the Observed Wind Response to Ocean-Mesoscale Sea Surface Temperatures
15 m Niklas Schneider (University of Hawai'i at Mānoa)
1:15 Air-Sea mechanical coupling at submesoscale regime: Direct observations and numerical insights
15 m Hector Torres (Jet Propulsion Laboratory, California Institute of Technology), Patrice Klein, Ernesto Rodriguez, Dimitris Menemenlis, Alex Wineteer, Lia Siegelman, Andrew Thompson, and Mar Flexas
1:30 Quantifying Air-Sea Interactions with Ka-Band Doppler Scatterometry
15 m Alexander Wineteer (Jet Propulsion Laboratory), Ernesto Rodríguez, Hector Torrez, Patrice Klein and Dimitris Menemenlis
1:45 Wind Drift Currents from Remote Sensing
15 m Ernesto Rodriguez (Jet Propulsion Laboratory/Caltech), Alexander Wineteer and Steven Morey
2:00 Upper-ocean response to alongshore winds off the California coast
15 m Bia Villas Boas (Scripps Institution of Oceanography, University of California San Diego), Sarah Gille and Weiguang (Roger) Wu
2:15 Wind drift and air-sea coupling in simulations of the northern California Current System
15 m Professor Roger Samelson (CEOAS, Oregon State University), D. B. Chelton and E. D. Skyllingstad
2:30 Discussion (20 minutes)

Pre-break Poster Highlights (one minute and one slide summaries) Chair: Mark Bourassa

2:50 Investigating the Effects of Sea Spray on Surface Wind Stress and Waves under Hurricane Conditions
1 m Renee Richardson (Florida State University, COAPS & EOAS), Mark Bourassa and Steven L. Morey
2:51 Observational Analysis of Extratropical Cyclone Interactions with Northeast Pacific Sea Surface Temperature Anomalies
1 m Briana Phillips (Oregon State University) and Larry O'Neill
2:52 Seasonality and regional characteristics of sea-surface wind responses to mesoscale SST features revealed by the transfer function
1 m Ryusuke Masunaga (IPRC, University of Hawai'i at Mānoa), and Professor Niklas Schneider
2:53 Diurnal variability in tropical surface winds, convergence and the associated precipitation
1 m Dr. Joe Turk (Jet Propulsion Laboratory, California Institute of Technology) and Svetla Hristova-Veleva
2:54 Accuracy of wind observations from open-ocean buoys: Correction for flow distortion
1 m Michael Schlundt (Woods Hole Oceanographic Institution), Tom Farrar; Sebastien Bigorre; Al Plueddemann; and Bob Weller

3:00 Break and poster viewing (40 min)

Ocean Applications Chairs: David Halpern and Tom Kilpatrick

3:40 Validation of Ultra High Resolution Winds in the Lee of the Hawaiian Islands
15 m David Long (Brigham Young University), Nolan Hutchings, Thomas Kilpatrick and Shang-Ping Xie
3:55 Wind-driven mixing on the Greenland shelf
15 m Dmitry Dukhovskoy (FSU), Mark Bourassa
4:10 CYGNSS Observations of Ocean Winds and Waves at NOAA
15 m Zorana Jelenak (NOAA/NESDIS/Center for Satellite Applications and Research), Faozi Said, Jeonghwan Park, Seubson Soisuvarn and Paul S. Chang
4:25 Surface Currents from Ultra-Thin Drifters compared to HF Radar and Drogued Drifter Measurements
15 m Steven Morey (Florida A&M University), Nicolas Wienders, Dmitry S. Dukhovskoy, and Mark A. Bourassa
4:40 Estimating dynamic SSH anomalies from surface ocean vector current observations: A feasibility study for the proposed WaCM
15 m Larry O'Neill (Oregon State University), Ernesto Rodriguez, Dudley Chelton, and Roger Samelson
4:55 Discussion (20 m)

5:40 End of 2nd day

IOVWST Dinner (time 6:30):

DiMillo's On the Water
25 Long Wharf
Portland, ME 04101

FRIDAY MORNING

8:15 Registration

Meteorological Applications Co-Chairs: Joe Sienkiewicz and Aaron Paget

8:45 Operational Use of ASCAT Coastal Winds in JMA Mesoscale NWP System
15 m Shin Koyamatsu (Japan Meteorological Agency)
9:00 Examining Cold Pool Signatures of Oceanic Systems Using ASCAT Wind Retrievals of Varying Resolution
7 m Georgios Priftis (University of Alabama in Huntsville), Timothy J. Lang, Piyush Garg, Richard Lindsley, Stephen W. Nesbitt and Themis Chronis
9:08 Development of a New MABL Model for OVW Sea-level Pressure Retrieval, OLE Modeling and Assessing Momentum Entrainment
7 m Ralph Foster
9:15 Using new global Sentinel SAR data to investigate organized eddies in the marine boundary layer
15 m Douglas Vandemark (Univ. of New Hampshire), Chen Wang, Ralph Foster, Alexis Mouche and Bertrand Chapron
9:30 Systematic scatterometer wind errors around coastal mountains
15 m Thomas Kilpatrick (Scripps Institution of Oceanography), Shang-Ping Xie, Hiroki Tokinaga, David Long and Nolan Hutchings
9:45 Discussion (15 minutes)

10:00 Break and poster viewing (40 minutes)

Observational Requirements for Wind and Stress Science and Applications Co-chairs: Mark Bourassa and Ad Stoffelen

10:40 Summary of Vector-related Applications and Requirements for in the OceanObs19 Winds and Stress Paper
15 m Mark Bourassa and Ad Stoffelen
10:55 Challenges for measuring transient mesoscale winds and link to WMO OSCAR
5m Ad Stoffelen (KNMI)
11:00 Requirements for Ice and Land Applications
5m David G. Long (BYU)
XX placeholder a few 5 minute talks XX
11:20 Discussion (40 m)

12:00 Lunch (60 minutes)

FRIDAY AFTERNOON

Issues and Solutions to Improving Air-Sea Coupling in Observations and Models Co-Chairs: Steve Morey and Bia Villas Boas

1:00 Towards an improved Ku-band pencil-beam scatterometer wind quality control under moist convection conditions
15 m Marcos Portabella (Institute of Marine Sciences (ICM-CSIC)), Wenming Lin, Ad Stoffelen, Anton Verhoef and Zhixiong Wang
1:15 Improvement of the ERA* ocean forcing product: Benefits from the scatterometer constellatio
15 m Ana Trindade (Polytechnic University of Catalonia (UPC)), Marcos Portabella, Ad Stoffelen, Wenming Lin and Anton Verhoef
1:30 Update and model sensitivity to stress parameterizations and comparison to ASCAT equivalent neutral winds
10 m Mark Bourassa (FSU, COAPS & EOAS) and Qi Shi
1:40 Local winds vs swell: Wave-wind interactions and the impact on scatterometer measurements
15 m Sarah Gille (Scripps Institution of Oceanography, University of California San Diego), Sarah Gille, Mary Konopliv, Magdalena Carranza, Luke Colosi, Bia Villas Boas and Momme Hell
1:55 Effect of sampling difference on satellite-buoy wind consistency
15 m Tong Lee (Jet Propulsion Lab)
2:10 Discussion (40 minutes)

Meeting Wrap-up Chair: Mark Bourassa

2:50 End of meeting discussion (30 m)

3:30 Break and Poster viewing (40 min)

4:10 End of Meeting

POSTERS PRESENTATIONS AND TIMES FOR ONE-MINUTE HIGHLIGHT PRESENTATION
(Posters will be up throughout the meeting)

Poster Highlights Current and Future Ocean Vector Wind Mission Updates (1 m talks, Wednesday AM)

10:48 The European Next Generation Scatterometer – SCA
1m Dr. Craig Anderson (EUMETSAT), S Linow, JJW Wilson, F Ticconi.
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1m Dr. Alexander Fore (Jet Propulsion Laboratory), Simon Yueh, Wenqing Tang, Bryan Stiles, and Akiko Hayashi

9:50 Break and poster viewing (35 minutes)

WEDNESDAY AFTERNOON

Poster Highlights for Planning and Results for Improved Calibration of Extreme Winds and Stress, Climate Data Record Development and Analysis and Meteorological Applications (1 m talks, Wednesday PM)

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1 m Ethan Wright (Florida State University, COAPS & EOAS) and Mark Bourassa
2:51 Volume Scattering Models for Scatterometer Cross-Calibration
1 m David Long (Brigham Young University), Evan Chrisney
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2:56 Analysis of the 10 - 20 Day Intraseasonal Oscillations in the Indian Ocean Using Surface Winds from Composite Satellite Data
1 m Yangxing Zheng (Florida State University-COAPS), Mark A. Bourassa, Heather L. Roman-Stork
2:57 The spatial structure of marine heat waves in the California Current System
1 m Melanie R. Fewings (CEOS, Oregon State University), Kevin S. Brown, Carlos Moffat and Gwen Larson

Poster Highlights for New Products and Applications (1 m talks, Thursday AM)

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1 m David Long (Brigham Young University), Jordan Brown
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1 m David Weissman (Hofstra University), Mark A. Bourassa
9:54 NOAA Ocean Winds Science team NRT Satellite Ocean Winds Processing System Overview
1 m Qi Zhu (NOAA/NESDIS/Center for Satellite Applications and Research), Seubson Soisuvarn, Faozi Said, Joe Sapp, Jeonghwan Park, Zorana Jelenak, Paul S. Chang
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