Monday June 2nd: Morning
Conference Room

8:10 Bus departure from Brest to Ifremer Institute**

8:30 Registration (Hall)

Introductory Talks — Chair: Abderrahim Bentamy

9:30 Words from the local host
Abderrahim Bentamy

9:35 Words from the Co-Director IFREMER/Brest center
Nicole Devauchelle

9:45 Introduction from the organizing committee
Mark Bourassa (FSU)

9:50 CEOS OSVW-Virtual Constellation Update
Paul Chang (NOAA/NESDIS), Julia Figa, and B.S. Gohil

10:05 Status overview of the European scatterometer activities
Julia Figa Saldana (EUMETSAT), and K. Scipal (ESA/ESTEC)

10:20 Update on QuikSCAT, RapidSCAT, and the OVWST re-competition
Eric Lindstrom (NASA HQ)

10:35 Discussion (10 minutes)

10:45 Break & Poster Viewing (30 minutes) (Hall)

Atmosphere and Ocean Coupling — Chair: Mark Bourassa

11:15 The atmospheric response to weak SST fronts
Niklas Schneider (International Pacific Research Center, University of Hawaii) and Bo Qiu (Department of Oceanography, University of Hawaii)

11:30 Surface Flux Modification by Wind Response to SSTs
Mark Bourassa (Florida State University) and John Steffen

11:45 Spatial variances of wind fields and their relation to second-order structure functions and spectra
Jur Vogelzang (KNMI), Gregory King, and Ad Stoffelen

12:00 Near-surface wind-current coupling, identified in satellite and in situ observations
Nikolai Maximenko (IPRC, University of Hawaii),

12:15 Can GRACE-constrained ocean circulation estimates be used to evaluate and adjust QuikSCAT wind stress retrievals? Dimitris Menemenlis (Jet Propulsion Laboratory), Hong Zhang, David Moroni, and Carmen Boening

12:30 Discussion (30 minutes)

13:00 Lunch (60 minutes) at IFREMER

*** Brest Train Station*

Monday June 2nd: Afternoon
Conference Room

14:00 Breakout Sessions for Working Group on Ocean Surface Stress
(other session cancelled)

Stress — Chair: Jim Edson

14:00 Overview of working group

14:15 Effects of cloud snow in climate models on ocean surface wind stress and SST in the Pacific sector
Tong Lee (Jet Propulsion Laboratory), J.-L. Frank Li, W.-L. Lee, D. E. Waliser, Tong Lee, Justin P. Stachnik, Eric Fetzer, and Carmen Boening

14:30 New Applications of Scatterometry
MM Ali (NRSC), Mark Bourassa, David Long, and Jocelyn Elya

14:45 Retrieving Hurricane Scale Wind and Stress from scatterometers
W. Timothy Liu (Jet Propulsion Laboratory), Wenqing Tang, and Xiaosu Xie

15:00 Discussion (30 minutes)

15:30 Break and Poster Viewing (30 minutes) (Hall)

Oceanographic Applications — Co-chairs: Tony Lee and Bruno Blanke

16:00 Wind-Driven Motions of the Upper Ocean Mixed Layer
Kathleen Dohan (Earth and Space Research)

16:15 Wind-induced Upwelling in the Kerguelen Plateau Region
Sarah T. Gille, Magdalena Carranza, Rémi Cambra, and Rosemary Morrow

16:30 Covariability Of Equatorial Winds And Sea Surface Height
Theodore Durland (CEOAS, Oregon State University), J. Thomas Farrar, Dudley B. Chelton, and Michael G. Schlax

16;45 Uncertainty in Ocean Surface Winds over the Nordic Seas
Dmitry Dukhovskoy (FSU) and Mark Bourassa

17:00 Wind Relaxations in the California Current Upwelling System
Melanie R. Fewings, Libe Washburn, Clive E. Dorman, Christopher Gotschalk, Kevin S.Brown1, Ke Chen, and John Bane

17:15 The influence of non-wind based parameters on estimating the active and total whitecap coverage globally
Aaron Paget (Brigham Young University) and Mark A. Bourassa

17:30 Statistical Emulation of High Resolution SAR Wind fields from low-resolution model predictions
Liyun He Guelton (IFREMER), Bertrand Chapron, and Ronan Fablet

17:45 Discussion (30 minutes)

18:15 Close for the day

18:30 Bus departure for Brest City

Tuesday June 3rd: Morning
Conference Room

8:10 Bus departure from Brest to Ifremer Institute

8:30 Meeting space open (Hall)

9:00 Summary from Breakout Session for Working Group on Ocean Surface Stress

Ice Applications — Chair: Julia Figa

9:15 Long-Term Sea Ice Monitoring With Scatterometers at IFREMER/CERSAT
Fanny Girard-Ardhuin (IFREMER)

Meteorological Applications — Co-chairs: Marcos Portabella and Ralph Milliff

9:30 Improvements in ambiguity removal of scatterometer winds
Jur Vogelzang (KNMI), Ad Stoffelen, Wenming Lin, and Marcos Portabella

9:45 Satellite estimates of time-averaged surface wind divergence and vorticity in rain-free and all-weather conditions
Larry O'Neill (Oregon State University), Ted Durland, Tracy Haack, and Dudley Chelton

10:00 Impact of East Asian Winter and Australian Summer Monsoons on the Enhanced Surface Westerlies over the Western Tropical Pacific Ocean Preceding the El Nino Onset
Yangxing Zheng (COAPS, Florida State University), Renhe Zhang, and Mark A. Bourassa

10:15 Exploring the relationship between surface wind convergence and convective rainfall in the tropics
Thomas Kilpatrick (Scripps Institution of Oceanography) and Shang-Ping Xie

10:30 Deuterated Water and Suface Vector Winds in a Madden-Julian Oscillation Event
Ralph Milliff (CIRES, University of Colorado), Lesley L. Smith, David C. Noone, and Max Berkelhammer

10:45 Break and Poster Viewing (30 Minutes) (Hall)

11:15 Assimilation of Scatterometer Winds At METEO-FRANCE
Payan Christophe (CNRM and Game, Météo France and CNRS)

11:30 Scatterometer Winds At ECMWF: Operational Status And Research Activities
Giovanna De Chiara (ECMWF), Jean-Raymond Bidlot, Stephen J. English, and Peter A.E.M. Janssen

11:45 Scatterometer Wind Assimilation at the Met Office
James Cotton (Met Office)

12:00 Scatterometer Utilization in JMA's global numerical weather prediction (NWP) system
Masami Moriya (Japan Meterological Agency)

12:15 Assimilation of scatterometer winds in HARMONIE for wave and surge forecasting near the coast
Ad Stoffelen (KNMI) and Gert-Jan Marseille

12:30 Discussion (30 minutes)

13:00 Lunch (60 minutes)

Tuesday June 3rd: Afternoon

14:00 - 15:30 Breakout Sessions for

Working Group on Climate (Conference Room)

Working Group on Coastal Applications (Ocean Room)

For schedule of talks see next page ➔

15:30 Break and Poster Viewing (30 minutes) (Hall)

Conference Room, 16:00 – 18:15

New Products and Applications **Co-chairs: Julia Figa and Jochen Horstmann**

16:00 Analysis of the C-band spaceborne scatterometers thermal noise
Anis Elyouncha (Royal Military Academy) and Xavier Neyt

16:15 Analysis of Turbulent Flux Quality
Abderrahim Bentamy (IFREMER), S. Grodsky; W. Bruch, B. Blanke, F. Desbiolles, K. Katsaros, A. Mestas-Nuñez, and R. Pinker

16:30 Retrieving Surface Wind Direction from Neural-Net Wind Speed Retrievals in Tropical Cyclones
Ralph Foster (University of Washington) and Jerome Patoux

16:45 Scatterometer and NWP model data in regional seas
Stefano Zecchetto (National Research Council of Italy) and C. Accadia

17:00 Multi-Scatterometer Hurricane Winds: Optimized Tropical Cyclone Winds from ASCAT, OceanSAT-2, and QuikSCAT
Bryan Stiles (Jet Propulsion Laboratory), Alex G. Fore, W. Lee Poulsen, Svetla Hristova-Veleva, and Michael J. Brennan

17:15 Measurements of Air-Sea Interaction from the HY-2A Scatterometer
Dudley Chelton (Oregon State University), Qingtao Song, Larry W. O'Neill, Marcos Portabella, Wenming Lin, and Ad Stoffelen

17:30 Wind Retrieval from Synthetic Aperture Radar Operating at Cross Polarization
Jochen Horstmann (Helmholtz Zentrum Geesthacht), S. Falchetti, C. Wackerman, M. Caruso and H. Graber

17:45 Discussion (30 minutes)

18:15 Close for day

19:00 Buffet Dinner at IFREMER

21:30 Bus Departure for Brest City

Tuesday June 3rd: Afternoon Working Groups

Climate (Conference Room) — Chair: Frank Wentz and Ad Stoffelen

14:00 Overview of working group

14:15 Standards in the evaluation of scatterometer products
Ad Stoffelen (KNMI)

14:30 ASCAT and SeaWinds Ocean Surface Vector Winds Along the Equator
David Halpern (Jet Propulsion Laboratory) and Lucrezia Ricciardulli

14:45 Climate signals in the ocean surface winds: Using QuikSCAT, ASCAT, and OSCAT to detect trends in the Hadley cell width and intensity and to study their intra-seasonal, seasonal and diurnal variability
Svetla Hristova-Veleva (JPL), Ziad Haddad, Ernesto Rodriguez, and Bryan Stiles

15:00 Discussion (30 minutes)

Coastal Applications (Ocean Room) — Co-chairs: Melanie Fewings and Steve Morey

14:00 Overview of working group

14:15 Upwelling events at the western African coast related to synoptic atmospheric structures: An analysis with satellite observations
Fabien Desbiolles (LOS), B. Blanke, and A. Bentamy

14:30 Discovering a Decade of Coastal Winds From Scatterometers
Bryan Stiles (Jet Propulsion Laboratory), Alex G. Fore, P. Ted Strub, Corinne James, Michelle Gierarch, and Sermsak Jaruwatanadilok

14:45 Understanding variability of global coastal upwelling using satellite scatterometer winds
Steven Morey (Florida State University)

15:00 Discussion (15 minutes)

15:30 Break and Poster Viewing (30 minutes) (Hall)

Wednesday June 4th: Morning
Conference Room

8:10 Bus departure from Brest to Ifremer Institute

8:30 Meeting space open (Hall)

9:00 Summary from Breakout Session for **Working Group on Coastal Applications**

9:15 Summary from Breakout Session for **Working Group on Climate**

Current and Future Ocean Vector Wind Mission Updates

Co-chairs: Ernesto Rodriguez and Klaus Scipal

9:30 CFOSAT (Chinese-French Oceanic SATellite): an innovative mission combining surface ocean wind and wave measurements from Ku-Band scatterometry
Daniele Hauser (LATMOS/CNRS-UVSQ), Liu Jianqiang, Dong Xialong, Zhu Di, Tison C., Lambin J., Amiot, T., Castillan P., Mouche A., Chapron B., Ardhuin F., Lefèvre JM., Aouf L., and Mahfouf JF

9:45 Calibration of HY-2A Satellite Scatterometer with Ocean and Considerations of Calibration of CFOSAT Scatterometer
Xiaolong Dong (CAS Key Laboratory of Microwave Remote Sensing, National Space Science Center, CAS), Jintai Zhu, Risheng Yun, and Di Zhu

10:00 Evaluation of the HY-2A scatterometer wind quality
Wenming Lin (Institut de Ciencies del Mare CSIC), Marcos Portabella, Ad Stoffelen, Anton Verhoef, Antonio Turiel, Qingtao Song, Xingwei Jiang, and Dudley B. Chelton

10:15 Global Change Observation Mission (GCOM) (invited)
Haruhisa Shimoda (JAXA)

10:30 Progress Towards the Ku/Ka-band Scatterometer Missions
Mark Bourassa (Florida State University), Robert Gaston, David G. Long, Nikolai Maximenko, Ernesto Rodriguez, Frank Wentz, Shang-Ping Xie, and Dudley Chelton

10:45 DopplerScat: A Pencil-Beam Scatterometer and Surface Current Instrument
Ernesto Rodriguez (Jet Propulsion Laboratory, California Institute of Technology), M.M. Flexas, D. Menemenlis, D. Perkovic-Martin, and A. F. Thompson

11:00 Break and poster viewing (30 minutes) (Hall)

11:30 CYGNSS Mission Update
Chris Ruf (AOSS/University of Michigan), Robert Atlas, Paul Chang, Maria Paola Clarizia, Zorana Jelenak, Sharan Majumdar, and Aaron Ridley

11:45 Two-Look Polarimetric (2LP) Microwave Radiometers for Ocean Vector Wind Retrieval
Frank Wentz (Remote Sensing Systems), Kyle Hilburn. and Thomas Meissner

12:00 Aquarius Wind Speed Retrievals and Implications for SMAP Ocean Vector Winds
Alexander Fore (Jet Propulsion Laboratory), Simon Yueh, Wenqing Tang, Julian Chaubell, Gregory Neumann, Akiko Hayashi, and Adam Freedman

12:15 The METOP-SG Satellites & the SCA Radar
Franco Fois (ESA) and John Julian William Wilson (EUMETSAT), C.C.Lin, M. Loiselet, C. Anderson, F. Ticconi K.Scipal, A. Stoffelen, and J. Figa

12:30 RapidScat
Ernesto Rodriguez (JPL), B. Stiles, A. Fore, D. Perkovic-Martin, S. Durden, and S. Boland

12:45 Discussion (15 minutes)

13:00 Lunch (60 minutes)

Wednesday June 4th: Afternoon
Conference Room

Climate Data Record Development and Analysis Co-chairs: David Halpern and Frank Wentz

14:00 Trends in 15 years (1993-2007) of satellite-derived oceanic evaporation
Alberto Mestas-Nunez (NSF), Frank Kelly, Abderrahim Bentamy, and Kristina Katsaros

14:15 Assessment of the impact of large sub-cell wind variability on ASCAT wind data quality
Marcos Portabella (Institut de Ciencies del Mar (ICM-CSIC)), Wenming Lin, Ad Stoffelen, Antonio Turiel, and Anton Verhoef

14:30 Field assessment of ocean wind stress derived using active and passive microwave sensors
Doug Vandemark (UNH/EOS), James Edson, Marc Emond, and Bertrand Chapron

14:45 Progress and Future Plans on an Ocean Vector Wind Climate Record
Lucrezia Ricciardulli (Remote Sensing Systems) and Frank Wentz

15:00 Climate data records from OSI SAF scatterometer winds
Anton Verhoef (KNMI), J. de Kloe, J. Verspeek, J. Vogelzang, and A. Stoffelen

15:15 Break and poster viewing (30 minutes) (Hall)

15:45 A High-Resolution Ocean-Surface Vector Wind Analysis (1987 onward) Merged from Satellite Scatterometers and Microwave Radiometers: Methodology, Approach, Challenges, and Uncertainty Estimation
Lisan Yu (Woods Hole Oceanographic Institution)

16:00 Utilization of multi-satellite data for construction of high-temporal resolution data and high-accuracy daily-mean data
Masahisa Kubota (Tokai University), Atsushi Okuro, Shin'ichiro Kako

16:15 Discussion (30 minutes)

16:45 Meeting Wrap up

17:15 Close of meeting

17:15 Transportation will be organized for airport or Brest City

Posters (Hall Conference Room)

Atmosphere and Ocean Coupling

Surface Curl and Ekman Upwelling Modification by Wind Response to SSTs
Mark Bourassa (Florida State University) and Paul J. Hughes

Coupled surface winds and ocean diurnal variability using WRF
Rachel Weihs (Center for Ocean-Atmospheric Prediction Studies, Florida State University) and Mark Bourassa

The Influence of Small Scale SST Gradients on Tropical Cyclone Development
Russell Glazer (Florida State University - COAPS), Mark Bourassa, and Robert Hart

Second-order structure function analysis of SeaWinds and ASCAT winds over the Tropical Pacific
Gregory King (Gulbenkian Institute of Science), Jur Vogelzang, and Ad Stoffelen

Upscale and downscale energy transfer over the tropical Pacific revealed by scatterometer winds
Gregory King (Gulbenkian Institute of Science), Jur Vogelzang, and Ad Stoffelen

Comparison of ASCAT and SeaWinds Velocity Difference PDFs
Gregory P. King, Jur Vogelzang, and Ad Stoffelen

Atmospheric forcing data sets to drive eddy-resolving global ocean general circulation models
Raphael Dussin, Bernard Barnier, and Anne Marie Treguier

Current and Future Ocean Vector Wind Mission Updates

The CYGNSS Mission Level 2 Wind Speed Retrieval Algorithm
Maria-Paola Clarizia (University of Michigan), Christopher Ruf, Andrew O'Brien, and Scott Gleason

The swell impact on HY-2 SCAT wind product quality
He Wang (National Ocean Technology Center)

CFOSAT Scatterometer Doppler processing and Data Product Development
Risheng Yun (Key Laboratory of Microwave Remote Sensing (MIRS,CAS),Center for Space Science and Applied Research(CSSAR,CAS),Chinese Academy of Sciences), Xiaolong Dong, Di Zhu, and Xinou Xu

An evaluation of simulated CYGNSS winds in tropical cyclone conditions
Faozi Said (NOAA), Seubson Soisuvarn, Zorana Jelenak, and Paul S. Chang

New Products and Applications

Improved ASCAT and OSCAT Spatial Response Functions for Enhanced Resolution Processing"
David G. Long (BYU), Richard Lindsley, Nathan Madsen, and Aaron Paget

Tropical Cyclone Winds Validation from the OSCAT Neural Network Winds
Seubson Soisuvar, Zorana Jelenak, Suleiman Alsweiss, and Paul Chang

Estimation of Sea Surface Rainrate from SeaWinds Data Using Neural Network Methods
David E. Weissman, Simona Doboli, and Anthony Esposito

Waves, Currents, and Ice

Wave and Wind Direction Effects on SFMR Brightness Temperatures
Heather Holbach (FSU COAPS), Eric Uhlhorn, and Mark Bourassa

Meteorological Applications

Scatterometer High Wind Observations
Zorana Jelenak (NOAA/NESDIS/STAR-UCAR), Joseph Siekievicz, Suleiman Alsweiss, and Paul S. Chang

GNSS-Reflectomety: A Cost-Effective Solution for Global Ocean Winds
Foti G.,Gommenginger C., Robertson C., Shaw A.

Oceanographic Applications

The eSurge-Venice project: how scatterometer data can improve the storm surge forecasting in the Gulf of Venice
Stefano Zecchetto (National Research Council of Italy), F. De Biasio, A. della Valle, G. Umgiesser, M. Bajo, S. Vignudelli, and C. Donlon

An Analytical Model for the Cross-Polar Scattering of Microwave Radiation from Ocean
Franco Fois (TUDelft), P. Hoogeboom (TUDelft), F. Le Chevalier (TUDelft), and A. Stoffelen (KNMI)

Coastal Winds over the Patagonia Shelf
Paul Strub (Oregon State University) and Corinne James

Climate Data Record Development and Analysis

Towards ASCAT Backscatter Correction in Rain
Wenming Lin (Institut de Ciencies del Mare CSIC), Marcos Portabella, Ad Stoffelen, and Anton Verhoef

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, and H Bauch

Special Topics

New Ocean Wind and Scatterometry Datasets and Interoperability Services at the NASA PO.DAAC
David Moroni (NASA/JPL)

Observations of urban land targets using QuikSCAT L1B sigma0 data
Aaron Paget (Brigham Young University) and David G. Long