

> Programme

Day 1, Monday 21 January 2008		
09:30-11:00	Registration and Poster mounting	
	Opening Session	Chair: Y.-L. Desnos (ESA)
11:00-11:10	Official ESA Welcome	Dr. Volker Liebig (Director of EO Programmes, European Space Agency)
11:10-11:25	Workshop Background, Objectives and Organization	Yves-Louis Desnos (ESA)
11:25-11:45	Status of ERS and Envisat Missions	Henri Laur (ESA)
11:45-12:05	ERS and Envisat SAR Performance, Processing and Products for Oceanography	Nuno Miranda (ESA)
12:05-12:25	Operational Marine Surveillance with SAR	Olaf Trieschmann (EMSA)
	Missions	Chair: D. De Lisle (CSA), A. Coletta (ASI)
12:25-12:45	Sea and Ice Products from Sentinel-1	Evert Attema (ESA)
12:45-13:05	Application of TerraSAR-X for oceanography	Susanne Lehner (DLR)
13:05-13:25	COSMO-SkyMed Mission status	Alessandro Coletta (ASI)
13:25-13:45	RADARSAT-2 Program Status	Daniel De Lisle (CSA)
13:45-14:45	Lunch	
	Ocean Current Applications	Chair: J. Johannessen (NERSC), J. A. Lorenzzetti (INPE)
14:45-15:15	An assessment of the usefulness of SAR images to help better locating the Brazil Current surface inshore front	João A. Lorenzzetti (National Space Research Institute)
15:15-15:45	A model of combined backscatter and Doppler shifts for surface velocity estimation from SAR images.	Johnny Johannessen (NERSC)
15:45-16:15	Routine high resolution observation of selected major surface currents from space	Fabrice Collard (BOOST Technologies)
16:15-16:45	Upper Ocean patters in the Southern coast of Chile from ENVISAT ASAR and ERS-2 SAR imagery	Cristina Rodriguez-Benito (Mariscope Chilena)
16:45-17:00	Coffee Break	
17:00-17:30	Multi-Sensor Observation of Mesoscale and Small-Scale Features	Marina Mityagina (Space Research Institute of Russian Academy of Sci)
17:30-18:00	Synergetic combination of ASAR with	Johnny Johannessen

	spectrometers and radiometers for advanced interpretation of mesoscale current features.	(NERSC)
18:00-18:30	Discussion	
18:30-19:30	Welcome Cocktail	
Day 2, Tuesday 22 January 2008		
Wave Applications, Internal Waves and Swell		
		Chair: J. Da Silva (University of Lisboa), F. OCampo Torres (CICESE)
08:15-08:45	Spatial and Temporal Variations of Internal Waves in the South China Sea	Weigen Huang (Second Institute of Oceanography, State Oceanic Ad)
08:45-09:15	Synthetic Aperture Radar Observations of Sea Surface Signatures of Atmospheric Gravity Waves over Coastal Waters	Werner Alpers (University of Hamburg)
09:15-09:45	Effects of gap-winds on multi-modal ocean Swell systems at the south Pacific coast of Mexico	Guillermo Díaz-Méndez (Universidad Autónoma de Baja California)
09:45-10:15	Remote Sensing of Internal Waves in the Mid-Atlantic Bight	Michael Caruso (CSTARS-University of Miami)
10:15-10:45	On the ocean surface wave spectrum detection under hurricane influence: Detailed spatial evolution.	Francisco (Paco) OCampo-Torres (CICESE)
10:45-11:15	Coffee Break	
Wave Applications, Internal Waves and Swell, cont.		
		Chair: W. Huang (Second Institute of Oceanography), W. Alpers (University of Hamburg)
11:15-11:45	First results obtained in the OSIRIS project	Johannes Schulz-Stellenfleth (DLR)
11:45-12:15	Remote sensing of ocean surface winds, currents, waves, and internal waves around the Korean peninsula using Space-borne Synthetic Aperture Radar (SAR)	Duk-jin Kim (Korea Aerospace Research Institute) presented by Wooil Moon
12:15-12:45	Do Moving Polar Highs play a significant role on the generation of Internal Solitary Waves in the Atmosphere?	José da Silva (University of Lisbon)
12:45-13:15	Global swell waves observation and application for NRT storm swell tracking and swell attenuation estimation	Fabrice Collard (BOOST Technologies)
13:15-13:45	Discussion	
13:45-14:45	Lunch	
Methodology and techniques		
		Chair: B. Chapron (IFREMER), H. Johnsen (NORUT)
14:45-15:15	SAR Altimetry Applications Over Water	Cristina Martin Puig (Starlab)
15:15-15:45	Development of an L-Band Geophysical Model Function and Comparison with Measured	Donald R. Thompson (Johns Hopkins)

	Cross Section Data	University/APL)
15:45-16:15	Comparison of data and model predictions of current, wave and radar cross-section modulation by seabed sand waves	Cees de Valk (ARGOSS)
16:15-16:45	Coffee Break	
16:45-17:15	Investigation of ship accidents using global ERS-2 and ENVISAT wave mode	Elzbieta Bitner-Gregersen (DNV) presented by W. Rosenthal
17:15-17:45	Discussion	
	Poster session	Chair: J. Da Silva (University of Lisboa), J. A. Lorenzetti (INPE)
17:45-19:45	Poster Session and Cocktail	
	Concept Design of Near-Space Passive Radar for Ocean Remote Sensing	Wen-Qin Wang (Uni. of Electron. Sci. and Tech. of China)
	Ice Detection and Classification in Liaodong Bay with ENVISAT ASAR Imagery	Yonggang JI (First Institute of Oceanography, SOA)
	Comparison and Evaluation for Ship Target Detection Algorithms with ENVISAT ASAR	Xi ZHANG (Ocean University of China)
	Numerical Simulation on Series of Airborne SAR Images of Internal Waves	Li Fei (Chinese Academy of Sciences)
	Analysis of Effects of Environmental Factors on Spatio-Temporal Distribution of Ice in Liaodong Bay with Envisat ASAR and MODIS Imagery	Haibo YUE (Ocean University of China)
	Simulating the Influence of Wave Whitecaps on SAR Images	Eugenio Pugliese Carratelli (CUGRI and University of Salerno)
	Speed ambiguity in SAR hurricane wind retrievals	William Perrie (Bedford Institute of Oceanography)
	The characteristics of internal waves in the Yellow Sea observed by SAR	Taerim Kim (Kunsan University)
	Detection and morphological measurements of oil slicks in SAR images: an approach exploiting 'free software' libraries.	Flavio Parmiggiani (CNR)
	Sea Bed Geoforms in the Argentine Coast Identified by the ERS-SAR Missions: Influences on Ocean Dynamic and Bottom Geomorphology	Domingo Antonio Gagliardini (CONICET)
	SAR signatures of oceanic internal waves in the Barents Sea	Igor Kozlov (Russian state hydrometeorological university)
	China East Sea Coastal Wind Field observation by Synthetic Aperture Radar and Scatterometer	Xiaoming Li (German Aerospace Center (DLR))
	Comparison between SAR streaks and AVHRR spatial and temporal evolution of cloud streets to derive rolls aspect ratio maps and PBL depth	Elena Arabini (Prof. Inst.)
	Analysis of a global ERS-2 wave mode data set acquired over the ocean taking a synergetic approach	Guiting Song (German Aerospace Center(DLR))

On the Capability of the Degree of Polarization for Oil Spill Observation	Attilio Gambardella (Università degli Studi di Napoli Parthenope)	
Use of SAR data for ships positioning control: a two-year study	Olga Lavrova (Space Research Institute of RAS)	
Automatic Recognition Of Coastal and Oceanic Environmental Events In Orbital Radars	Cristina Maria Bentz (PETROBRAS Research Center)	
Online Access to Radar Maritime Monitoring Data	O.N. Gershenson (ScanEx)	
Day 3, Wednesday 23 January 2008		
Oil Spill Applications		
08:30-09:00	CleanSeaNet: The EU remote sensing based monitoring system for marine oil spill detection and surveillance in European waters	Samuel Djavidnia (European Maritime Safety Agency)
09:00-09:30	Satellite Monitoring of Oil Spills in the Mediterranean Sea for 1999-2004	Kostas Topouzelis (Joint Research Centre)
09:30-10:00	Monitoring Of Oil Pollution Using Earth Observation Data (MOPED)	Valborg Byfield (National Oceanography Centre)
10:00-10:30	DEvelopment of Marine Oil Spill Satellite monitoring system for the Black Sea, Caspian Sea and Kara/Barents Seas (DEMOSS)	Stein Sandven (NERSC)
10:30-11:00	Satellite monitoring of sea surface state of Russia's coastal zone of the Black and Azov Seas	Olga Lavrova (Space Research Institute of RAS)
11:00-11:15	Coffee Break	
Oil Spill Techniques		
11:15-11:45	Sea Oil Spill Observation by means of Analysis of Spatial Statistics in Polarimetric SAR Data Using Wavelet Signatures	Attilio Gambardella (Università degli Studi di Napoli Parthenope)
11:45-12:15	Oil Spill Detection by means of Dual-polarized SAR data/Analysis of the sea surface scattering with and without surface slicks	Ferdinando Nunziata (Università di Napoli Parthenope)
12:15-12:45	Unsupervised oil spill detection in SAR imagery through an estimator of local regularity	Marivi Tello (Universitat Politecnica de Catalunya)
12:45-13:15	Oil Spill Detection and Prediction from SAR multiscale analysis	Jose Manuel Redondo (Univ. Politecnica de Catalunya)
13:15-13:45	Discussion	
13:45-14:30	Lunch	

	Vessel Detection Applications	Chair: O. Trieschmann (EMSA), G. Campbell (ESA)
14:30-15:00	Maritime Domain Awareness Experiment	Hans Graber (CSTARS-University of Miami)
15:00-15:30	Near Real Time (NRT) Suspect Vessel Identification (SVI) system	Paulo Miguel Nunes do Carmo (Edisoft, SA) presented by Sónia Pelizzari
15:30-16:00	Characterisation of Location Discrepancies between ENVISAT/ERS Ship Detection Reports and AIS Records During the MARISS Phase 2 Trials in France	Jean-Yves Le Bras (CLS)
16:00-16:15	Coffee Break	
	Vessel Detection Techniques	Chair: J. Schulz Stellenfleth (DLR), G. Campbell (ESA)
16:15-16:45	Remote Sensing of Ship Wakes	Alexander Soloviev (Nova Southeastern University)
16:45-17:15	Ship Detection : from Processing to Instrument Characterisation	Guillaume Hajduch (BOOST Technologies)
17:15-17:45	Ship Detection Approach Based on Cross-correlation from ENVISAT ASAR Ap Data	Chan-Su Yang (Ocean Satellite Research Group)
17:45-18:15	Discretization Effects in Sea Surface Simulation Applied to Ship Classification Studies	Gerard Margarit (Universitat Politecnica de Catalunya (UPC))
18:15-18:45	Discussion	
19:30-22:30	Non hosted Dinner	

Day 4, Thursday 24 January 2008

	Ocean Wind Applications	Chair: J. Horstmann (GKSS), W. Alpers (University of Hamburg)
09:15-09:45	Near-Real Time Generation of ENVISAT ASAR Level-2 Wind and Waves products: Presentation of the system and preliminary achievements	Vincent Kerbaol (BOOST Technologies)
09:45-10:15	Wind energy and SAR wind mapping	Charlotte Hasager (Risoe National Laboratory DTU)
10:15-10:45	Similarities and differences of SAR derived wind fields using two different methods: the local gradient and the continuous wavelet transform methods	Stefano Zecchetto (Consiglio Nazionale delle Ricerche)
10:45-11:15	Detection of Meso-scale Atmospheric Fronts in the Marine Boundary Layer by Spaceborne Synthetic Aperture Radar	Werner Alpers (University of Hamburg)
11:15-11:45	Coffee Break	

Ocean Wind Applications, cont.		Chair: S. Lehner (DLR), D. R. Thompson (JHU-APL)
11:45-12:15	Error Analysis of Synthetic Aperture Radar Retrieved Wind Speeds	Jochen Horstmann (GKSS Research Center)
12:15-12:45	Synergetic use of Radar and optical Satellite Images to Support Severe Storm Prediction	Stephan Brusch (DLR)
12:45-13:15	A New SAR Retrieval Method for Hurricane Wind Parameters	Antonio Reppucci (German Aerospace Center (DLR))
13:15-13:45	Discussion	
13:45-14:45	Lunch	
Wave Mode Algorithms, Validation and Assimilation		Chair: H. Johnsen (NORUT), G. Kallos (University of Athens)
14:45-15:15	Analysis and inversion of ASAR WM data - assessment of polarization and incidence angle dependencies	Harald Johnsen (Norut)
15:15-15:45	Data assimilation in WAM4 – System operations and validation	George Kallos (University of Athens)
15:45-16:15	Recent improvements for the assimilation of upgraded ASAR wave spectra in the wave model	Lotfi Aouf (Météo France)
16:15-16:45	Ocean Wave Measurements in High and Complex Sea State by SAR Wave Mode Data and Numerical Wave Model	Xiaoming Li (German Aerospace Center (DLR))
16:45-17:15	Coffee Break	
17:15-17:45	Status of Global Validation of ENVISAT ASAR Wave Mode Products at ECMWF	Saleh Abdalla (ECMWF)
17:45-18:15	Discussion	
Day 5, Friday 25 January 2008		
Ice Applications		Chair: O. Grabak (ESA), P. Clemente Colon (NOAA/NESDIS)
08:45-09:15	Detection of Arctic icebergs on the base of satellite SAR	Vitaly Alexandrov (NIERSC)
09:15-09:45	Improved sea ice monitoring for the Baltic Sea – Project overview and first results	Leif E.B. Eriksson (Chalmers University of Technology)
09:45-10:15	Sea ice classification using ASAR Alternating Polarisation images	Stein Sandven (NANSEN ENVIRONMENTAL AND REMOTE SENSING CENTER)
10:15-10:45	Coincident Measurement of Arctic Sea Ice using Envisat ASAR and Submarine	Nicholas Hughes (Scottish Association for Marine Science)
10:45-11:15	Coffee Break	
11:15-11:45	Analysis of polarimetric signatures of Arctic lead ice using data from AIRSAR and	Daniel Bäck (Chalmers University

RADARSAT		of Technology)
11:45-12:15	Discussion	
Session Summary		
12:15-12:25	Wave Mode Algorithms, Validation and Assimilation Summary	
12:25-12:35	Ocean Current Applications Summary	
12:35-12:45	Ocean Wind Applications Summary	
12:45-12:55	Wave Applications, Internal Waves and Swell Summary	
12:55-13:05	Oil Spill Applications and Techniques Summary	
13:05-13:15	Vessel Detection Applications and Techniques Summary	
13:15-13:25	Methodology and Techniques Summary	
13:25-13:35	Ice Applications Summary	
13:35-13:45	Closing Remarks	