

Day 1, Monday 18 June 2012		
08:45	09:30	Registration and Poster mounting
Opening Session		
09:30	09:50	Official Welcome - Workshop Background, Objectives and Organisation Yves-Louis Desnos (ESA) P.E. Skrøvseth (NSC)
Session: Future SAR missions (Sentinel-1, Radarsat Constellation Mission etc.) Chairs: P.E. Skrøvseth & P.Potin		
09:50	10:10	Sentinel-1 Mission Operations Concept Pierre Potin (ESA)
10:10	10:30	Sentinel-1 Instrument Overview Paul Snoeij (ESA)
10:30	10:50	The Sentinel-1 core products and ground processor Nuno Miranda (ESA)
10:50	11:20	Coffee Break
11:20	11:40	A Marine Collaborative Ground Segment for the Sentinel1 missions Vincent Kerbaol (CLS, France)
11:40	12:00	From RADARSAT-2 to RADARSAT Constellation Mission data continuity Paris Vachon (Defence R&D Canada) on behalf of Daniel De Lisle (CSA, Canada)
12:00	12:20	International Cooperation For Space-Based Global Maritime Awareness – The Next Step Harm Greidanus (JRC)
12:20	12:50	Round Table
12:50	14:00	Lunch
Session: Methodology and techniques Chairs: F. Collard & L. Aouf		
14:00	14:20	Towards consistent inversion of wind, waves and surface current from SAR Bertrand Chapron (IFREMER, France)
14:20	14:40	NEREIDS: New concepts in maritime surveillance for consolidating operational developments Gerard Margarit (GMV Idem, Spain)
14:40	15:00	Toward automated classification of brightness fronts in RADARSAT-2 images of the ocean surface. Christopher Jones (Dalhousie University Halifax, Canada)
15:00	15:20	From 2D to 3D upper layer dynamics: The way forward Johnny Johannessen (NERSC, Norway)
15:20	15:40	Estimation of Underwater Topography using Satellite High Resolution Synthetic Aperture Radar Data. Andrey Pleskachevsky (DLR, Germany)
15:40	16:10	Round Table
16:10	16:40	Coffee Break
Session: Wave mode processing algorithms, product validation and assimilation Chairs: F. Collard & R. Romeiser		
16:40	17:00	On the impact of ASAR wave spectra in the operational wave model MFWAM Lotfi Aouf (Meteo France, France)
17:00	17:20	Application of SAR wave mode and wide swath mode for swell tracking across ocean Fabrice Collard (CLS, France)
17:20	17:40	Global numerical wave model validation using ENVISAT ASAR wave mode and Radar Altimeter data Xiaoming Li (DLR, Germany)
17:40	18:10	Round Table
18:10	19:30	Welcome Cocktail

Day 2, Tuesday 19 June 2012			
Session: Wave retrievals and applications			
Chairs: H. Johnsen & F. Ocampo-Torres			
08:30	08:50	The GLOBWAVE project	Fabrice Collard (CLS, France)
08:50	09:10	SAR Wave Mode processing – improvements towards Sentinel-1 mission	Harald Johnsen (Norut, Norway)
09:10	09:30	Wave retrievals from ScanSAR images under tropical cyclone conditions	Roland Romeiser (University of Miami, US)
09:30	09:50	Wind Speed and Sea State by TerraSAR-X	Miguel Bruck (DLR, Germany)
09:50	10:10	Ocean waves inferred from X-band synthetic aperture radar images of the sea surface	Francisco OCAMPO-TORRES (CICESE, Mexico)
10:10	10:30	Swell emulation in coastal zone	Fabrice Collard (CLS, France)
10:30	11:00	Coffee Break	
11:00	11:20	Evaluation of high resolution wave simulations with SAR-observations and estimation of the wave power potential spatiotemporal distribution	George Kallos (University of Athens, Greece)
Session: Internal Waves			
Chairs: W. Alpers & J. da Silva			
11:20	11:40	A look at oceanic internal waves with TerraSAR-X along-track InSAR	Roland Romeiser (University of Miami, US)
11:40	12:00	On the origin of short internal waves trailing strong internal solitary waves observed on spaceborne SAR images acquired over the northern South China Sea	Werner Alpers (University of Hamburg, Germany)
12:00	12:20	Airborne and SAR Sinergy reveals the 3D structure of air bubble entrainment in internal waves and fronts	Jose Da Silva (University of PORTO, Portugal)
12:20	12:50	Round Table	
12:50	14:00	Lunch	
Session: Ocean current retrievals and applications			
Chairs: J. A. Johannessen & B. Holt			
14:00	14:20	SAR observations of spiral eddies in the inner seas	Svetlana Karimova (Space Research Institute, Russia)
14:20	14:40	Monitoring the surface inflow of Atlantic Water to the Nordic Seas using Envisat ASAR	Morten Wergeland Hansen (NERSC, Norway)
14:40	15:00	Surface current monitoring over gulf Stream, Agulhas and North Brazilian current	Fabrice Collard (CLS, France)
15:00	15:20	High precision Doppler frequency estimation for ocean applications	Harald Johnsen (Norut, Norway)
15:20	15:40	Results from the Submesoscale Experiment April 2011: In situ, aircraft, and satellite measurements of small eddies, fronts, and filaments in the Southern California Bight	Benjamin Holt (Jet Propulsion Laboratory, US)
15:40	16:00	Observations conditions and principle for ocean current front backscatter modulation	Fabrice Collard (CLS, France)
16:00	16:30	Coffee Break	
16:30	16:50	High resolution Surface Velocity Monitoring with Wide Swath SAR: A User's Guide to the Range Doppler Method	Johnny Johannessen (NERSC, Norway)
16:50	17:20	Round Table	
17:30	20:00	Visit to KSAT	

Day 3, Wednesday 20 June 2012			
Session: Ship detection			
Chairs: G. Campbell & P. W. Vachon			
08:30	08:50	Ship detection and sea clutter characterisation using X&L band Full polarimetric airborne data	Sebastien Angelliaume (ONERA, France)
08:50	09:10	Validating a ship detector based on the notch filter with RADARSAT-2 Fine quad-pol data.	Armando Marino (ETH Zurich, Switzerland)
09:10	09:30	Operational Ship Detection in Canada using RADARSAT: Present and Future	Paris Vachon (Defence R&D, Canada)
09:30	09:50	Ocean Clutter Modeling for Ship Detection	Ding Tao (University of Tromsø, Norway)
09:50	10:10	Ship detection and motion parameter estimation with TanDEM-X in large along-track baseline configuration	Stefan Baumgartner (DLR, Germany)
10:10	10:30	Advanced ship detection and classification	Guillaume Hajduch (CLS, France)
10:30	11:00	Coffee Break	
11:00	11:20	MARISS - Near Real Time Ship Detection with TerraSAR-X	Stephan Brusch (DLR, Germany)
11:20	11:40	Ship Detection using High Resolution Satellite Imagery and Space-Based AIS	Tonje Nanette Hannevik (FFI, Norway)
Session: Oil spill detection			
Chairs: C. Brekke & V. Kudryavtsev			
11:40	12:00	Analysis of the Deepwater Horizon oil spill using polarimetric L-band UAVSAR data AR data	Benjamin Holt (Jet Propulsion Laboratory, US)
12:00	12:20	Italian Coast Guard integrated maritime surveillance in the framework of security, anti-pollution and fisheries control activities	Luigia Caiazzo (Italian Coast Guard, Italy)
12:20	12:40	Oil spill detection and modelling: preliminary results for the Cercal Accident.	Jose Da Silva (University of Porto, Portugal)
12:40	14:00	Lunch	
14:00	14:20	Field experiments on SAR detection of film slicks	Stanislav Ermakov (Institute of Applied Physics, Russia)
14:20	14:40	Oil spill detection in dual and compact polarimetry SAR images	Arnt-Børre Salberg (Norwegian Computing Center, Norway)
14:40	15:00	A comprehensive analysis of polarimetric features for oil spill characterisation	Stine Skrunes (University of Tromsø, Norway)
15:00	15:20	The "New Generation" of CleanSeaNet: the EU Remote Sensing Based Monitoring System for Oil Spill and Vessel Detection	Sonia Pellizzari (European Maritime Safety Agency)
15:20	16:00	Round Table	
16:00	18:00	Poster session	
Hosted Workshop dinner			

Day 4, Thursday 21 June 2012			
Session: Ocean wind retrievals and applications			
Chairs: J. Horstmann & K.-F. Dagestad			
09:00	09:20	SAR-Derived High-Resolution Operational Wind Products within NOAA CoastWatch	William Pichel (NOAA/NESDIS, US)
09:20	09:40	Estimating Winds From Synthetic Aperture Radar In Typhoon Conditions	Chris Wackerman (General Dynamics, US)
09:40	10:00	Validation of SAR Wind Retrieval at X-BAND using TERRASAR-X and COSMO-SKYMED data	Jochen Horstmann (NATO Undersea Research Center, Italy)
10:00	10:20	On Ocean Surface Wind Retrieval from VH dual-pol Radarsat-2 SAR Imagery	Hui Shen (Academy of Sciences of Qingdao, China)
10:20	10:40	Doppler centroid, normalized radar cross sections and sea surface wind	Alexis Mouche (CLS, France)
10:40	11:10	Coffee Break	
11:10	11:30	Organized Multi-Km Surface Stress Convergence Lines in Tropical Cyclone Surface Wind Retrievals	Ralph Foster (University of Washington, US)
11:30	11:50	Use of SAR in observing Polar lows	Birgitte Furevik (Norwegian Meteorological Inst., Norway)
11:50	12:10	High resolution wind fields over the Black Sea derived from Envisat ASAR data using an advanced wind retrieval algorithm	Werner Alpers (University of Hamburg, Germany)
12:10	12:30	Dual-polarized SAR imaging of meso-scale currents	Vladimir Kudryavtsev (RSU/NIERSC, Russia)
12:30	13:00	Round Table	
13:00	14:20	Lunch	
Session: Sea ice retrievals and applications			
Chairs: T. Eltoft & W. Dierking			
14:20	14:40	A Multi-Polarization Study of Arctic Sea Ice in C-Band and X-Band	Torbjorn Eltoft (University of Tromsø, Norway)
14:40	15:00	Sea ice classification using Radarsat-2 dual-polarisation data	Stein Sandven (NERSC, Norway)
15:00	15:20	Radar polarimetry - useful for detection of icebergs in sea ice	Wolfgang Dierking (Alfred Wegener Institute, Germany)
15:20	15:40	Iceberg monitoring service by joint use of drift model, SAR and altimeter data	Nicolas Longepe (Collecte Localisation Satellites, France)
15:40	16:00	SAR measurements of sea ice drift in the Fram Strait and Bay of Bothnia	Anders Berg (Chalmers University of Technology, Sweden)
16:00	16:30	Coffee Break	
16:30	16:50	Sea Ice Concentration Retrievals by using Composite ScanSAR Features in a SAR Data Assimilation Process	N. Gokhan Kasapoglu (University of Tromsø, Norway)
16:50	17:30	Round Table	

Day 5, Friday 22 June 2012		
Session: Session Summary		
Chairs: P.E. Skrøvseth & Y.-L. Desnos		
09:00	09:20	Future SAR missions (Sentinel-1, Radarsat Constellation Mission etc.)
09:20	09:40	Methodology and techniques
09:40	10:00	Wave mode processing algorithms, product validation and assimilation
10:00	10:20	Wave retrievals and applications
10:20	10:40	Internal Waves
10:40	11:10	Coffee Break
11:10	11:30	Ocean current retrievals and applications
11:30	11:50	Ship detection
11:50	12:10	Oil spill detection
12:10	12:30	Ocean wind retrievals and applications
12:30	12:50	Sea ice retrievals and applications
12:50	13:10	Closing