

SP-636
July 2007
Proceedings of the Envisat Symposium 2007
2327 April 2007
Montreux, Switzerland

Publication

*Proceedings of the Envisat Symposium 2007
Montreux, Switzerland (ESA SP-636, July 2007)*

Edited by

*H. Lacoste & L. Ouwehand
ESA Communication Production Office*

Published and distributed by

*ESA Communication Production Office
ESTEC, Noordwijk, The Netherlands*

*ISBN
92-9291-200-1*

*ISSN
1609-042X*

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Z. Perski, F. van Leijen & R. Hanssen
- 507736 Application of ASAR Interferometry for Motorway Deformation Monitoring
A. Krawczyk, Z. Perski & R. Hanssen
- 461229 ERS and Envisat SAR Interferometry to Measure Land Subsidence in the Venice Lagoon on Natural and Artificial Point Targets
P. Teatini, T. Strozzi, L. Tosi et al.

3B3 InSAR Applications: Subsidence, cont.

- Chairs: D. Derauw & U. Wegmuller
- 553227 Validation of Persistent Scatterers Interferometry over a Mining Test Site: Results of the PSIC4 Project
M. Crosetto, M. Agudo, D. Raucoules et al.
- 461868 Structurally-Controlled Urban Subsidence along the Mexican Volcanic Belt (MVB) Monitored by InSAR
P. Farina, J.-A. Avila-Olivera & V.H. Garduño-Monroy
- 462973 Monitoring of Land Subsidence in Mashhad Valley, Northeast Iran, Using Interferometric Synthetic Aperture Radar (InSAR), Precise Leveling and Continuous GPS
M. Motagh, Y. Djamour, T.R. Walter et al.
- 463168 Detection and Characterisation of Residual Mining Subsidence Using DInSAR Interferometry: Application to Nord/Pas-de-Calais Coalbasin (Northern France)
Y. Gueguen, B. Deffontaines, M. Al Heib et al.

3B4 InSAR Applications: Subsidence, cont.

- Chairs: A. Monti-Guarnieri & H. Rott
- 460886 The Coherence Analysis for Detecting the Subsidence at Permanent Frozen Area in Qinhai-Tibetan Plateau
Z. Li, C. Xie & X. Li
- 460061 The Experience of the Cartographic Institute of Catalonia (ICC) on Continuous DInSAR Monitoring of Large Areas
O. Mora, R. Arbiol & V. Palà

3C1 (A)ATSR: Performance, New Algorithms and Products

- Chairs: I. Barton & C. Donlon
- 459862 Global Validation of the (A)ATSR Meteo Product Sea-Surface Temperature at the Met Office
K. Fennig, T.A. Blackmore, A.G. O'Carroll & R.W. Saunders
- 459816 Validation of AATSR SSTs with SISTeR in the Skagerrak
T.J. Nightingale
- 463098 The Accuracy of SST Retrievals from AATSR: Synthesis and Integration of Comparisons to Buoys and Radiometers
C. Corlett and the AATSR SST Team
- 458421 Three-Way Error Analysis between AATSR, AMSR-E and In Situ Sea Surface Temperature Observations
A. O'Carroll, J. Eyre & R. Saunders
- 462865 Saharan Dust Corrections for the Envisat AATSR SST Product
X. Kong, E. Noyes, G. Corlett et al.

3C2 (A)ATSR: Performance, New Algorithms and Products, cont.

- Chairs: J.L. Casanova & J. Moreno
- 460136 (A)ATSR Multimission Archive Online Access to 15 Years of High Quality Data in a Common Format
M. Pritchard & N. Houghton
- 461128 Validation of the AATSR Land Surface Temperature Product over Inland Waters and Vegetated Surfaces
C. Coll, S.J. Hook & J.M. Galve
- 465010 AATSR Derived Land Surface Temperature over a Heterogeneous Region
J.A. Sobrino, G. Sòria, J.C. Jiménez-Muñoz et al.
- 462940 Future Development of the Operational AATSR LST Product
E. Noyes, G. Corlett, J. Remedios et al.

3C3 Atmospheric Properties from Optical/Infrared

Chairs: C. Mutlow & R. Santer

463312 Retrieval of Particulate Matter Concentration (PM10) from MERIS Observation and Validation over Germany

W. von Hoyningen-Huene, G. Rohen, T. Dinter et al.

461895 ATSR Derived Aerosol Properties over Land

G. de Leeuw, R. Schoemaker, L. Curier et al.

3C4 Atmospheric Properties from Optical/Infrared, cont.

Chairs: J.L. Casanova & C. Mutlow

464950 Cloud Screening and Multitemporal Unmixing of MERIS FR Data

L. Gómez-Chova, R. Zurita-Milla, G. Camps-Valls et al.

483343 The Aerosol Optical Thickness Mapping from ATSR and MODIS Data over Land

Y. Xue, J. Guang, J. Guo & L. Bai

463400 DUE GlobAEROSOL: Validation of Global Aerosol Data from ATSR-2, ATSR and SEVIRI

G. Thomas, C. Poulsen, R. Siddans et al.

3D1 Agriculture and Vegetation

Chairs: N. Gobron & F. Holecz

461179 Estimation of Rice Growth Parameter and Crop Phenology with Conjunctional Use of RADARSAT and Envisat

I. Choudhury, M Chakraborty & J.S. Parihar

461751 Fusion of Optical and SAR Satellite Data to Improve Land Cover Mapping in Agricultural Areas

T. Riedel, C. Thiel & C. Schmullius

461798 Mapping Annual Crops with MERIS on Large Areas in Europe in the Frame of GMES Projects, for Serving Environmental Directives and Agricultural Policy

V. Lefèvre, P. Cayrol, H. Poilvè & P. Duthil

459339 Using JRC-FAPAR Products to Characterize Growing Seasons

M.M. Verstraete, N. Gobron, O. Aussedat et al.

3D2 Agriculture and Vegetation, cont.

Chairs: P. Curran & S. Quegan

461662 Relevance of Global Remote-Sensing FAPAR Products to Carbon Flux Estimates

N. Gobron, W. Knorr, O. Aussedat et al.

463499 A Method for the Detection of Solar-Induced Vegetation Fluorescence from MERIS FR Data

L. Guanter, L. Alonso, L. Gómez-Chova et al.

507764 Ecosystem Production Modelling in the Iberian Peninsula Comparative Analysis Between MODIS and MERIS Datasets

J. Seixas, N. Carvalhais, C. Nunes & A. Benali

463145 Using MERIS for Mountain Vegetation Mapping and Monitoring in Sweden

H. Reese, Heather, M. Nilsson & H. Olsson

3D3 Land-Use, Land-Use Change and Forestry

Chairs: J.P. Rudant & B. Pinty

460471 Modelling Methane Emissions from Siberian High Arctic Environments - A Case Study for the Lena River Delta Region

S. Kirschke & K. Guenther.

465152 Comparison of the ASAR Alternative Polarisation Mode to Full Polarimetric Acquisition for Land Use Estimation over Tropical Regions

C. Lardeux, P.-L. Frison, C. Tison et al.

461589 Random Forests for Classifying Multi-temporal SAR Data

B. Waske, V. Heinzel, M. Braun & G. Menz

3D4 Land-Use, Land-Use Change and Forestry, cont.

Chairs: C. Schmullius & J. Hajnsek

463256 Leaf Area Index Estimation of Boreal and Sub-Arctic Forest Using Envisat/ASAR Data of Various Swaths

T. Manninen, P. Stenberg, M. Rautiainen & P. Voipio

463391 Comparison of Forest Biomass Estimates in Siberia Using Spaceborne SAR, Inventory-Based Information and the LPJ Dynamic Global Vegetation Model

M. Santoro, C. Beer, A. Shvidenko et al.

462008 Boreal Forest Stem Volume Estimation from Multitemporal C-Band InSAR Observations

J. Askne & M. Santoro

451296 Analysis of ASAR APP Time Series over Siberia for Optimising Forest Cover Mapping - A GSE Forest Monitoring Study

C. Thiel, C. Thiel, T. Riedel & C. Schmullius

461574 Detection of Forest Changes over French Guiana Using ERS-1 and Asar Imagery
Y. Rauste, T. Häme, H. Ahola et al.

3E2 Geoid, Ocean Circulation and Coastal Zones

Chairs: D. Griffin & P. Knudsen

463662 An Application of the Radon Transform to Study Planetary Waves in the Indian Ocean
S. de la Rosa, P. Cipollini & H.M. Snaith

462874 Meso-Scale Oceanography of the Australian Region from Altimeters, Radiometers and Drifting Buoys
D. Griffin

3E3 Geoid, Ocean Circulation and Coastal Zones, cont.

Chairs: P. Cipollini & P. Challenor

461620 On Wet Tropospheric Correction for Altimetry in Coastal Regions
C. Desportes, E. Obligis & L. Eymard

463587 Hurricane Intensity Forecasting at NOAA Using Envisat Altimetry
J. Lillibridge, N. Shay, M. DeMaria et al.

463452 Retrieving Extreme Low Pressure with Altimetry
L. Carrere, F. Mertz, J. Dorandeu et al.

507660 Envisat - Taking the Measure of North Atlantic Storms
G.D. Quartly, C.A. Poulsen & T.H. Guymer

3E4 Wind and Wave/Sea State Modelling

Chairs: P. Queffelou & P. Janssen

460539 A Comparison of Two Altimeter Wave Period Algorithms Using Data from a N.E. Pacific Buoy
D.J.T. Carter

463250 Ku-Band Radar Altimeter Surface Wind Speed Algorithm
S. Abdalla

507507 Investigation of Large Scale and Regional Features of Wave Heights from Altimeter Measurements
P. Queffeulou & D. Croizé-Fillon

3F1 Radar Performances, New Products and Algorithms

Chairs: A. Monti-Guarnieri & D. Small

513170 Review of ASAR Instrument Performance and Product Quality Evolution after 5 Years of Operation
B. Rosich, P.J. Meadows, A. Monti-Guarnieri et al.

546848 ERS-2 SAR Performance and Product Evolution
P.J. Meadows, B. Rosich, A. Pilgrim & M. Tranfaglia

508536 Global Automatic Orthorectification of ASAR Products in ESRIN G-POD
R. Cossu, F. Brito, O. Collin et al.

466889 Optimizing Azimuth Antenna Steering: Beyond TOPSAR
D. D'Aria, D. Giudici, A. Monti Guarnieri & F. Rocca

3F2 Radar Performances, New Products and Algorithms, cont.

Chairs: D. Massonnet & F. Rocca

463311 ALOS PALSAR Verification Processor
P. Pasquali, A. Monti Guarnieri, D. D'Aria et al.

462873 Global Re-Deployment of the Envisat ASAR Transponders for Around Orbit Calibration
C. Goetz, H. Jackson, B. Rosich et al.

461550 Automatic Image-to-Image Registration of Near Real-Time SAR Images
B. Wessel, M. Huber & A. Roth

463611 Geometric and Radiometric Correction of ESA SAR Products
D. Small, A. Schubert, B. Rosich & E. Meier

3F3 ASAR Wide Swath: Algorithms & Results

Chairs: A. Monti-Guarnieri & M. Zink

461546 ASAR WSS Product Verification Using Derived Image Mosaics
A. Schubert, D. Small, B. Rosich & E. Meier

462902 Using Anisotropic Diffusion for Coherence Estimation
F. Aspert, A. Cantone, J.-P. Thiran & P. Pasquali

548178 Monitoring Surface Deformation in Active Margin Settings with the Scansar Technique Using Wide Swath Envisat Data.
J. Anderssohn & H. Kaufmann

3F4 EOMD

Chair: S. Coulson

507718 Monitoring Sustainable Development in the Oil Sands Region of Alberta, Canada, Using Spot-5 and Envisat Asar and Meris Imagery
A. Dean, A. Mangin, S. Hughes, O. Tsui, A. Syed, D. Dow, W. Gibbons, T. Boivin,

463564 EO-HYDRO: An Earth Observation Service for Hydropower Plant Management

L. Tampellini, G. Ober, F.D. Vescovi et al.

463095 Monitoring Mining Induced Ground-Movements Using SAR Interferometric Techniques

U. Wegmüller, T. Strozzi, N. Benecke et al.

457029 Near-Surface Characterization from Remote Sensing Data

A. Laake & M. Insley

3G1 Research with the Ozone Monitoring Instrument

Chairs: P.F. Levelt & E. Hilsenrath

509940 Validation Results from the Joint ESA KNMI NIVR Calibration and Validation

Announcement of Opportunity for the Ozone Monitoring Instrument

M. Kroon, E.J. Brinksma, D. Balis et al.

507603 Measurements of HCHO, CHOCHO and BrO from the Ozone Monitoring Instrument on EOS Aura

T.P. Kurosu, K. Chance & R. Volkamer

509526 Very Fast Delivery Products of OMI

S. Hassinen, J. Tamminen, A. Tanskanen et al.

3G2 Research with the Ozone Monitoring Instrument, cont.

Chairs: E. Hilsenrath & P.F. Levelt

509823 SO₂ Data from the Ozone Monitoring Instrument

N.A. Krotkov, K. Yang, A. Krueger et al.

510162 Measuring Aerosol Absorption from OMI Near UV Observations

O. Torres, P. Bhartia & C. Ahn

509935 OMI Observations of the JULY 2006 Smog Episodes in Europe

J.P. Veefkind, P.F. Levelt, H.J. Eskes ET AL.

3G3 Detection and Monitoring of Oil Spills and Oil Slicks

Chairs: B. Holt & J. Johannessen

460525 Operationalisation of a Multi-User Concept for Satellite Based Oil Spill and Ship Detection Services

L. Steinbakk, J.P. Pedersen & T. Bauna

463337 Complex Monitoring of Oil Pollution in the Baltic, Black and Caspian Seas

A.G. Kostianoy, O. Yu. Lavrova, M.I. Mityagina et al.

464902 Benefits of Operational Oceanography for Oil Spill Management

V. Toumazou, J.-Y. Le Bras, F. Jacq et al.

463105 The Use of Satellite Imagery to Monitor Oil Pollution in Lebanon

O. Muellenhoff, K. Topouzelis, D. Tarchi et al.

458898 A GIS Approach to Mapping of Oil Spills in the Marine Environment

A.Yu Ivanov & V.V. Zatyagalova

3G4 Detection and Monitoring of Oil Spills and Oil Slicks, cont.

Chairs: M.X He & B. Holt

466594 Remote Sensing of Slick as Indicators for Marine Processes in the Coastal Zone

M. Gade, S. Ermakov, O. Lavrova et al.

463134 SAR Monitoring of Oil Spills and Natural Slicks in the Black Sea

V.V. Malinovsky, S. Sandven & A.E. Korinenko

462664 Classifying Oil Spills and Look-Alikes in Envisat ASAR Images

C. Brekke, A. Solberg & G. Storvik

461232 Dual-Polarized SAR Data for Oil Spill Detection

F. Nunziata, A. Gambardella & M. Migliaccio

460830 A Generalised Algorithm for Oil Spill Detection on ERS and Envisat SAR Imagery

F. Nirchio, C. Marzo, P. Trivero et al.

Poster Papers

3P1 A(A)TSR: Performance, New Algorithms and Products

461741 (A)RC Radiative Transfer and SST Retrieval

O. Embury & C. Merchant

465898 (A)ATSR Re-Analysis for Climate - Cloud Clearing Methodology

C. Old & C. Merchant

483215 A 12-Year Record of Global Aerosol Properties from ATSR-2 and AATSR

W. Grey, P. North, S. Los et al.

462915 An Accuracy Assessment of AATSR LST Data Using Empirical and Theoretical Methods

E. Noyes, G. Corlett, J. Remedios ET AL.

828935 VoMIR: Over 300 Volcanoes Monitored in Near Real-Time by AATSR

O. Colin, M. Rubio, P. Landart & E. Mathot

3P2 Agriculture and Vegetation

457801 Relationship Between the MERIS Vegetation Indices and Crop Yield for the State of South Dakota, USA
J. Dash & P.J. Curran

461531 Monitoring Agricultural Activities Using ASAR Envisat Data
Tavakkoli Sabour, Seyed Mohammad; Lohmann, Peter; Soergel, Uwe

459009 Supervised Wishart Classifier for Rice Mapping Using Multi-Temporal Envisat ASAR APS Data
E. Chen, Z.Y. Li, ZB.X.Tan et al.

3P3 ASAR Wide Swath: Algorithms and Results

593602 ASAR Wide Swath Mode Interferometry: Optimisation of the Scan Pattern Synchronisation
B. Rosich, A. Monti Guarneri, D. D'Aria et al.

3P4 Atmosphere: Algorithms Developments and Methods

461483 Data Processing and Quality Control Activities in Support to the GOMOS Mission
F. Niro, D. Del Cavallo, G. Barrot & T. Fehr

767784 The FRESCO+ Cloud Algorithm for GOME and SCIAMACHY: Improvement and Validation
P. Wang, P. Stammes & R. van der A

459172 Assimilation of MIPAS Limb Radiances at ECMWF Using 1D and 2D Radiative Transfer Models
N. Bormann, S.B. Healy, M. Hamrud & J.N. Thépaut

463598 Improved Spectroscopic Data for Nitric Acid and First Observation of Atmospheric H₁₅NO₃ in MIPAS Spectra: Retrieval Study for the H₁₅NO₃ / H₁₄NO₃ Isotopic Ratio.
G. Brizzi, M. Carlotti, B.M. Dinelli et al.

463620 Results of a New Straylight Correction for SCIAMACHY
S. Slijkhuis, R. Snel, B. Aberle et al.

463621 Overview of MIPAS Operational Products
P. Raspolini, G. Aubertin, S. Bartha et al.

463652 Data Processing and Quality Control Activities in Support to the SCIAMACHY Mission
A. Dehn, F. Niro, A. von Bargen & T. Fehr

508109 Combined Ozone Retrieval Using the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) and the Tropospheric Emission Spectrometer (TES)
C. Waymark, A. Dudhia, J. Barnett et al.

462919 New Ozone Profile Climatology: Static and Dynamic Approach
J. Kaptur & A. Kaifel

462976 Future Data Analysis Techniques for Atmospheric Remote Sensing Measurements:
First Steps towards Grid Computing
L. Hoffmann, M. Kaufmann, C. Lehmann et al.

462093 Neural Network Algorithms for the Retrieval of Ozone Concentration Profiles from Envisat-SCIAMACHY Measurements
P. Sellitto, A. Burini, F. Del Frate & S. Casadio

462102 Design of Neural Networks Algorithms for the Retrieval of Tropospheric Ozone from Satellite Data
F. Del Frate, P. Sellitto & D. Solimini

463441 Assessment of GOMOS Retrieval Algorithms and Quality of Level 2 Products
M. Guirlet, G. Barrot, O. Fanton d'Andon et al.

463177 New IG2 Seasonal Climatologies for MIPAS
J.J. Remedios, R.J. Leigh, H. Sembhi & A.M. Waterfall

463110 Current Retrieval and Inter-Comparisons Results of SCIAMACHY Nighttime NO_x L.K. Amekudzi, K. Bramstedt, A. Bracher et al.

463233 Joint Retrieval of CO Vibrational Temperature from MIPAS-Envisat
J. Walker & A. Dudhia

463281 Improved SCIAMACHY WFDOAS Total Ozone Retrieval: Steps Towards Homogenising Long-Term Total Ozone Datasets from GOME, SCIAMACHY, and GOME2 M. Weber, L. N. Lamsal & J.P. Burrows

463290 Operational SCIAMACHY Level 1B-2 Off-Line Processor: Total Vertical Columns for O₃ and NO₂ and Cloud Products
A. von Bargen, T. Schröder, K. Kretschel et al.

463279 DRACULA Advanced Retrieval Tool for Atmospheric Remote Sensing
A. Doicu, F. Schreier, S. Hilgers et al.

463268 Near-Real-Time Estimation of Spectral Surface Albedo Algorithm Development for GOME-1/ERS-2 and GOME-2/METOP
B. Pflug, D. Loyola, P. Valks & W. Zimmer

3P5 Atmospheric Properties from Optical/Infrared

461505 Remote Sensing of Cloud-Aerosol Radiative Effects from Satellite Data: A Case Study over the South of Portugal
D. Santos, M.J. Costa, D. Bortoli & A.M. Silva

464392 MODIS Aerosol Optical Properties over North Italy for Estimating Surface-Level PM_{2.5}
W. Di Nicolantonio, A. Cacciari, E. Bolzacchin et al.

506792 Aerosol Retrievals over Land and Sea Surfaces Using Combined Satellite Measurements from MSG-SEVIRI and Envisat-AATSR
Y.S. Bennouna & G. de Leeuw

462261 GOSAT Calibration Plan
K. Shiomi, S. Kawakami, T. Kina et al.

463425 Contrail Cirrus Coverage and Radiative Forcing from Satellite Data
H. Mannstein, W. Krebs, S. Pinnock & F. Jelinek

3P6 Geoid, Ocean Circulation and Coastal Zones

- 431878 Estimation of the Ocean Tide Effect on the Altimetric Measurements
A. Rami, M. Khelif, S. Kahloche & T. Dennoukri
- 463760 An Assessment of Satellite Altimetry in Proximity of the Mediterranean Coastline
L. Fenoglio-Marc, S. Vignudelli, A. Humbert et al.
- 463562 Residual Tide Analysis in Shallow Water Contributions of Envisat and ERS Altimetry
R. Savcenko & W. Bosch
- 462511 X-Track, a New Processing Tool for Altimetry in Coastal Oceans
L. Roblou, F. Lyard, M. Le Henaff & C. Maraldi
- 463527 Making Radar Altimetry More Usable and Web-Interoperable in the Coastal Ocean
S. Vignudelli, P. Cipollini, H.M. Snaith et al.

3P7 InSAR Applications: Landslides

- 461770 Alpine Landslide Survey and Monitoring with Interferometric SAR Techniques in the Frame of the EC Framework 6 GMES Project ASSIST
A. Wiesmann, U. Wegmüller, T. Strozzi et al.
- 459491 Typical ERS InSAR Signature of Slope Movements in a Periglacial Mountain Environment (Swiss Alps)
R. Delaloye, C. Lambiel, R. Lugon et al.
- 507669 A Comparative Analysis of the DInSAR Results Achieved by the SBAS and SPINUA Techniques: The Maratea Valley Case Study, Italy
J. Wasowski, D. Casarano, C. Lamanna et al.

3P8 InSAR Applications: Subsidence

- 463840 Application of InSAR to the Study of Ground Deformation in the Mexicali Valley, B.C., Mexico
O. Sarychikhina, R. Mellors & E. Glowacka

3P9 Land-use, Land-use Change and Forestry

- 459977 Ecosystem Monitoring Development in the European Russian Tundra Based on SAR/ERS Data
V.V. Elsakov & V.M. Shanov
- 463159 Separability Analisys of Land Cover Classes at Regional Scale: A Comparitive Study of MERIS and MODIS Data
H. Carrão, P. Sarmento, A. Araújo & M. Caetano
- 461218 Joint Use of Envisat ASAR and Radarsat-1 Data in Land-Cover Classification Using Multitemporal SAR Data
N.-W. Park, K.H. Chi, Y.S. Kim et al.
- 463574 Monitoring of Forest Damage Caused by Gipsy Moth in Hungary Using Envisat MERIS Data (2005-2006)
G. Nádor, I. László, Zs. Suba & G. Csornai
- 463731 The Irkutsk Regional Information System for Environmental Protection (IRIS)
K. Frotscher, C. Thiel & C. Schmullius
- 506999 SEVESEO: EO-Based Services in Support to Industrial and Technological Risk Management
K. Meuleman, F. Lefebvre, E. Gontier et al.
- 462916 Forest Ecosystem Dynamics Using SPOT and MODIS Satellite Images
S. Stagakis, N. Markos, E. Levizou & A. Kyparissis
- 462081 Spatial Unmixing of MERIS Data for Monitoring Vegetation Dynamics
R. Zurita-Milla, G. Kaiser, J.P.G.W. Clevers et al.
- 462545 Spatial Aggregation of Low Resolution Satellite Data for the Monitoring of Vegetation Response to Climatic Stresses: Analysis of the Spatial Heterogeneity of Aggregated Entities Spatial Aggregation Level is the Most Appropriate for Global Vegetation Monitoring?
S. Horion, H. Eerens, B. Tychon & Y. Cornet

3P10 Radar Performances, New Products and Algorithms

- 437885 Assessment of the ASAR Sensor Radiometric Quality in Comparison to ERS-2 and RADARSAT-1 SAR Data
N. Baghdadi, M. Zribi & A. Delorme
- 460700 The ERS-2 Scatterometer: Instrument and Data Performances Assessment Since the Beginning of the Mission
R. Crapolicchio, G. De Chiara, A. Paciucci & P. Lecomte

- 461724 Analysis of Man-Made Target Detection in SAR Imagery
C. Wang & X. Zhong
- 544447 Synthetic Aperture Radar Image Formaton Process: Application to a Region of North Algeria
H. Akliouat, Y. Smara & L. Bouchemakh
- 506615 Signal Error Analysis of Active Calibration via Transponder
W. Wang

462018 SIB-ESS-C A Spatial Data Infrastructure to Facilitate Earth System Science in Siberia

R. Gerlach, C. Schmullius & S. Hese

463478 Data Processing Quality Control (DPQC) Data Flow and Quality Control System

M. Sunda & M. Santuari

589156 Optimising Envisat ASAR Interferometry Opportunities by Orbit Maintenance

B. Duesmann, D. Kuijper & I. Barat

3P11 - Research with the Ozone Monitoring Instrument

510049 Aerosol Retrieval from OMI: Applications to the Amazon Bassin

R.L. Curier, J.P. Veefkind, B. Veilhamann et al.

507466 Global Comparisons of Total O3 Columns from SCIAMACHY Weighting Function DOAS (WFDOAS) and OL3.0 to OMI-TOMS and GOME WFD

A. Bracher, M. Weber, K. Bramstedt & J.P. Burrows

507503 Validation of OMI TOMS-V8 Total Ozone Columns Using a Data Assimilation System

S. Migliorini, R. Brugge, A. O'Neill et al.

3P12 Upper Atmosphere

507327 Retrieval of Mesospheric Sodium Densities from SCIAMACHY Daytime Limb Spectra

S. Casadio, C. Retscher, R. Lang et al.

659499 Mesospheric Retrievals from MIPAS

L.F. Milliá n-Valle & A. Dudhia

3P13 Wind and Wave/Sea State Modelling

459804 Validation of a Regional Wave Model with Envisat and Buoy Observations

J.-G. Li & M. Holt

464372 Retriving the Ocean Global Wave-Skewness from Envisat RA-2 Averaged Waveforms

J. Gómez-Enri, P. Villares, C. Gommenginger et al.

3P14 Detection and Monitoring of Oil Spill and Oil Slicks

456173 Application of Envisat SAR Imagery for the Mapping and Estimation of Natural Oil Seeps in the South Caspian Sea

V.V. Zatyagalova, A. Yu. Ivanov & B.N. Golubov

463602 Exploiting Sunlight Signatures from MERIS and MODIS Imagery in Combination to SAR Data to Detect Oil Slicks

M. Adamo, G. De Carolis, V. De Pasquale & G. Pasquariello

467072 A New Object-Oriented Methodology to Detect Oil Spills Using Envisat Images

K. Topouzelis, V. Karathanassi, P. Pavlakis & D. Rokos

462039 Detection and Discrimination of Sea Surface Films in the Coastal Zone of Northeastern Black Sea Using SAR Data

M. Mityagina, O. Lavrova & T. Bocharova

3P15 EOMD

462515 DInSAR Ground Movement Monitoring in the Rural Environment of an Open Pit Mining Area

M. Schäfer, D. Walter & W. Busch

Contribute Papers

4A1 Troposphere and Air Quality

Chairs: P. Bernath & W. Lahoz

461081 A Combined GOME and SCIAMACHY Global Water Vapour Data Set

S. Noël, S. Mieruch, H. Bovensmann & J.P. Burrows

455539 Biogeoscience Review of SCIAMACHY Results

C. Muller & the SCIAMACHY team

459743 Evidence for Long-Range Transport of Carbon Monoxide in the Southern Hemisphere from SCIAMACHY Observations

A. Gloudemans, J. de Laat, M. Krol et al.

463087 Satellite Chartography of Atmospheric Methane from SCIAMACHY Onboard Envisat

C. Frankenberg, I. Aben, P. Bergamaschi et al.

461182 Three Years of SCIAMACHY Carbon Dioxide and Methane Column-Averaged Dry Air Mole Fraction Measurements

O. Schnieising, M. Buchwitz, H. Bovensmann & J.P. Burrows

4A2 Troposphere and Air Quality, cont.

Chairs: W. Lahoz & P. Bernath

461886 Identification of Tropospheric Trace Gas Sources: Synergistic Use of HCHO and other Satellite Observations

T. Marbach, S. Beirle, C. Frankenberg et al.

462281 Measuring Peroxyacetyl Nitrate from the MIPAS-E Instrument

D.P. Moore & J.J. Remedios

461349 Southern Hemispheric Biomass Burning as seen by MIPAS: C2H6 and Ozone

T. von Clarmann, N. Glatthor, G.P. Stiller et al.

463491 Global HDO Measurements with MIPAS

J. Steinwagner, T. Röckmann, M. Milz et al.

4A3 Aerosols and Clouds

Chairs: P. Stammes & H. Elbern

457528 Global SCIAMACHY Cloud Products

A.A. Kokhanovsky, M. Vountas, W. Lotz et al.

460978 Tropospheric and Stratospheric Measurements of Key Atmospheric Compounds from the Ground and Space

N. Jones, D. Griffith, G. Guergova et al.

510074 Aerosol Properties from OMI Using the Multi-wavelength Algorithm

B. Veihelmann, J.P. Veefkind, R. Braak et al.

4A4 Aerosols and Clouds, cont.

Chairs: H. Elbern & P. Stammes

463690 Impact of Clouds on Tropospheric Tracegas Retrievals

S. Beirle, T. Deutschmann, M. Grzegorski et al.

463122 Investigating the Effect of Upper Tropospheric Cirrus Clouds on Tropical MIPAS Level 2 Water Vapour and Ozone Retrievals

H. Sembhi, J. Remedios & P. Raspolini

4B1 InSAR Applications: Tectonics

Chairs: D. Massonnet & T. Wright

463161 Generation of Three-Dimensional Deformation Map at Low Resolution Using a Combination of Spectral Diversity via Least Square Approach

E. Erten, A. Reigber & O. Hellwich

4B3 InSAR Applications: Tectonics, cont.

Chairs: T. Wright & Y. Fialko

463776 Improved Source Imaging of the Kleifarvatn Earthquake, Iceland, through a Combined Use of Ascending and Descending InSAR Data

H. Sudhaus & S. Jonsson

463960 Postseismic Deformation in South Iceland Studied Using Multiple Acquisition Radar Interferometry

S. Jónsson, J. Hoffmann & T. Arnadóttir

4B4 InSAR Applications: Volcanoes

Chairs: G. Wadge & M. Furuya

463246 A Two-Scale Ground Deformation Analysis by Exploiting Envisat Radar Data via the SBAS DInSAR Technique: The Campi Flegrei Case Study

P. Berardino, F. Casu, G. Fornaro et al.

462120 Deformation Due to Magma Movement and Ice Unloading at Katla Volcano, Iceland, Detected by Persistent Scatterer InSAR

A. Hooper & R. Pedersen

462406 Application of Interferometric Point Target Analysis to Izu-Oshima Volcano, Japan

M. Furuya

462685 InSAR Monitoring of the Nyiragongo Nyamuragira Volcanoes (DR of Congo). Study of the Nyiragongo January 2002- and Nyamulagira November 2006 Eruptions

N. D'Oreye, F. Kervyn, C. Wauthier et al.

4C1 Inland Water Quality

Chairs: R. Santer & J. Pullianen

462691 Parameterisation of an Automated Processing Chain for Meris Data of Swiss Lakes, at the Example of Lake Constance

D. Odermatt, T. Heege, J. Nieke et al.

508174 MERIS Products over Large European Lakes - Comparison with Measured Data about Aerosol and Water Quality

A. Reinart, H. Ohvrlík, K. Alikas et al.

463301 Adjacency Effects and Bio-Optical Model Regionalisation: MERIS Data to Assess Lake Water Quality in the Subalpine Ecoregion

G. Candiani, C. Giardino & V.E. Brando

4C2 Coastal Zones

Chairs: R. Doerffer & J. Gower

507932 Properties of Coastal Waters Around the US: Preliminary Results Using MERIS Data

Z.P. Lee, C. Hu, D. Gray et al.

459886 Sediment and Chlorophyll Concentrations from Major Chinese Rivers Using MERIS Imagery

P.J. Mulhern & I.S.F. Jones

465850 Novelty Detection in North Sea Water Reflectance Spectra

H. Schiller, W. Schoenfeld, H. Krasemann & K. Schiller

4C3 Ocean Colour

Chairs: S. Lavender & C. Brockmann

462067 Improving the Estimation of North Sea Primary Production: MERIS CHL and KD in VGPM

M.A. Eleveld, H.J. van der Woerd & H. Beck

460449 A Novel Technique to Estimate Primary Production Directly from Earth Observation Data:

An Inherent Optical Property Approach

K. Barker, T. Smyth, S. Lavender & J. Aiken

4C4 Ocean Colour, cont.

Chairs: J. Fischer & R. Doerffer

460748 A Global Survey of Intense Surface Plankton Blooms and Floating Vegetation Using MERIS MCI

J. Gower, S. King & P. Goncalves

462522 Satellite Monitoring of Harmful Cyanobacterial Blooms in the Baltic Sea during the Period 1997-2006. The System, Results and Future Development

M Hansson & B. Håkansson

463658 Marcoast Adriatic Service Meris Products Validation

M.Viel, G. Ceriola, Paolo Manunta et al.

463496 Phytoplankton Distribution and Light Absorption from Space Data Using Differential Optical Absorption Spectroscopy

A. Bracher, M. Vountas, T. Dinter et al.

4D1 Hydrology and Soil Moisture

Chairs: M. Borgeaud & W. Wagner

459498 Provision of Snow Information from Satellite Data for Central Europe within the GMES Activity Polarview

H. Bach, F. Appel & W. Mauser

460228 Soil Moisture Determination in Southern Ireland Using an ASAR Time Series

B.W. Barrett, E. Dwyer, P. Whelan & D. Bartlett

4D2 Hydrology and Soil Moisture, cont.

Chairs: W. Mauser & M. Borgeaud

459889 New Inversion Method for Snow Density and Snow Liquid Water Content Retrieval Using C-Band Data from Envisat/ASAR Alternating Polarization in Alpine Environment

M. Niang, J.P. Dedieu, Y. Durand et al.

457188 Experimental 1km Soil Moisture Products from Envisat ASAR for Southern Africa

W. Wagner, C. Pathe, D. Sabel et al.

4D3 Wetlands and Water Dynamics

Chairs: A. Bartsch & W. Mauser

463766 Recent Results about ASAR Observation of Wetland Marshes

F.M. Grings, H. Karszenbaum, P. Ferrazzoli et al.

457563 Study of Ecosystem Dynamics in Sahelian Floodplains Using Envisat ASAR C-Band Data

T. Westra, S. Crabbe & R. De Wulf

462571 Wetland Mapping in the West Siberian Lowlands with Envisat ASAR Global Mode

A. Bartsch, C. Pathe & W. Wagner

464866 Multi-Temporal Analysis in the Niger Inland Delta Using ERS 1/2 and ASAR Data

J. Schmidt

462745 Integrated Water Resources Management for Zambia: Satellite-Derived Geo-Information to Support Policy- and Decision-Making Processes

M. Gregor I.A. Nyambe, J. Kampata et al.

4D4 Floods

Chairs: H. Yesou & H. Bach

463171 Use of Envisat ASAR and ERS SAR Data for Flood Rapid Mapping

T. Schneiderhan, M. Huber, H. Zwenzner et al.

455564 Synergy of High SAR and Optical Data for Flood Monitoring; the 2005-2006 Central European Floods Gained Experience

H. Yesou, B. Allenbach, R. Andreoli et al.

508530 ASAR Products Handling and Analysis for an Enhanced Flood Monitoring Service in ESRIN G-POD

R. Cossu, P. Bally, F. Brito et al.

4E1 Dragon

Chairs: Y.L. Desnos & Q. Zeng

534799 The Dragon Programme -- Status and Achievements

Y.-L. Desnos, Z.Li, Z. Gao & A. Zmuda

455544 Near Real Time Flood Monitoring in R.P. China during the 2005 and 2006 Flood and Typhoons

Seasons Based on Envisat ASAR Medium and High Resolution Images

H. Yesou, J. Li, R. Malostti et al.

4E2 Dragon, cont.

Chairs: Y.L. Desnos & Q. Zeng

462952 Creation of Large Area Forest Biomass Maps for NE China Using ERS-1/2 Tandem Coherence

O. Cartus, M. Santoro, C. Schmullius et al.

460162 Assessment and Update of Forest Classification Using Multi-Parameter Satellite SAR Data for NE China

X. Tian, Z. Li, E. Chen et al.

460678 Multi-Track PS Analysis in Shanghai

D. Perissin, C. Prati, F. Rocca et al.

460372 Synergy of Low and Medium Resolution Envisat ASAR and Optical Data for Lake Watershed Monitoring: Case Study of Poyang Lake (Jiangxi, P.R. China)

R. Andreoli, H. Yesou, J. Li & Y.-L. Desnos

4E3 Dragon, cont

Chairs: Y.L. Desnos & Q. Zeng

462439 Land Cover Classification Based on SAR Data in Southeast China

F. Ling, X. Wang & X. Shi

462529 MERIS Performance in the East China Seas: Evaluation of Atmospheric Correction and Optical Inversion Algorithms

S. He, W. Li, L. Hu, Y. Wang, T. Zhang, J. Fischer, Z. Lee, C. Hu

4E4 Mapping and Cartography

Chairs: J. Mallorqui & D. Derauw

463576 L-Band SAR Data Assimilation for Improved Surface Modelling

A. Loew, I. Hajnsek, D. Hoekman et al.

462651 Time-Varying Segmentation for Mapping of Land Cover Changes

F. Aspert, M. Bach Cuadra, A. Cantone et al.

4F1 Glacier and Ice Sheet Mass Balance

Chairs: M. Drinkwater & F. Remy

452961 Modelling Mass Balance of Glaciers Using Satellite Data

H. Rott, T. Nagler, P. Malcher & G. Bippus

455929 Semi-Controlled Interferometric Mosaic of the Largest European Glacier

A. Sharov & D.B. Nikolskiy

423487 The Correlation of Glacier Mass Balance and SAR Backscatter on Svartisen, Norway

I. Brown, M. Jackson, M. Braun & R. Engeset

454191 Space and Time Topographic Signatures of Ice Sheet

F. Rémy & B. Legréy

4F2 Ice Sheet Mass Balance

Chairs: F. Remy & N. Young

455753 Effects of Snow Properties on the Dual Frequency Radar Altimeter Signal of Envisat over the Antarctic Ice-Sheet

P. Lacroix, B. Legresy, M. Dechambre et al.

4F3 Ice Sheet and Glacier Processes

Chairs: H. Rott & C.K. Shum

463336 Melt Extent and Pattern in Greenland and Antarctic Peninsular from Envisat ASAR Global Monitoring Mode

A. Luckman

461337 Ice Dam Fluctuations at the Marginal Lake Grænalón (Iceland) before and during a GLOF

K. Scharrer, CH. Mayer, S. Martinis et al.

461187 Surface Velocity of Swiss Alpine Glaciers from ERS SAR Interferometry

T. Strozzi, U. Wegmüller, C. Werner & A. Wiesmann

461781 Using Radar and Optical Data to Study the Glacier Changes on the 'Roof of the World' (ESA Project No 2401)

J.-P. Deroin, J. Wen, M. Dai et al.

4F4 Sea Ice Mass Balance

Chairs: W. Dierking & M. Drinkwater

458117 **Svalex 2005 and Icesar 2007 -- Two Flight Campaigns over Sea and Land Ice in the Svalbard Region: Sea Ice Studies**
W. Dierking, J. Hartmann & C. Luepkes

463178 **Ice Drift in the Fram Strait from Envisat ASAR Data**
S. Sandven, K. Kloster & K.F. Dagestad

4S2 GMES

Chair: V. Liebig

838383 **GMES Space Component Sentinel-1, -2 and -3**
P.G. Edwards, G. Levrini, F. Spoto et al.

4S3 GMES, cont.

Chair M. Doherty

462609 **The Global Monitoring for Food Security Project: Using Envisat MERIS and ASAR for Monitoring Agriculture in Africa**
L. Bydekerke, F. Holecz, C. Haub et al.

589389 **Risk-Eos, Flood and Forest Fire Risk Information Service**
Y. Desmazieres & M. Paganini

461230 **Marine and Coastal Environmental Information Services: The MarCoast Project after 18 Months**
J. Bruniquel

4S4 GMES, cont.

Chair M. Doherty

591118 **GSE Land - Geoinformation Services for Urban Development, Spatial Planning, Water Quality and Irrigation for Europe**
S. Kuntz

548686 **GMES Service Element Forest Monitoring Activities**
T. Häusler & S. Gomez

548705 **RESPOND: Geo-Information Services for Humanitarian and Development Aid**
N. Veck & J. Lambert

Poster Papers

4P1 & 4P2 Aerosols, Clouds and UV

457804 **Global Distribution of Atmospheric Photon Path Lengths Derived from GOME and SCIAMACHY**
T. Wagner, S. Beirle, M. Grzegorski et al.

461473 **Fast Forward Modelling of Observations for Cloudy Atmospheric States**
S. Mackie, C. Merchant & P. Francis

461702 **Cloud Parameter Retrieval from MIPAS Data**
J. Hurley, A. Dudhia & D. Grainger

463371 **Satellite Retrieval of Aerosol Properties over Bright Reflecting Desert Regions**
T. Dinter, W. von Hoyningen-Huene, A. Kokhanovsky et al.

463426 **Measuring Total Particle Extinction from the MIPAS-E Instrument**
D.P. Moore & J.J. Remedios

4P4 Cryosphere

459065 **ESA's CryoSat-2 Multi-Mode Level 0 to Level 1B Science Processors Algorithm Design and Pre-Launch Verification with ASIRAS**
R. Cullen, D.J. Wingham, P. Viau et al.

465423 **Snow Depth and Surface Conditions of Austfonna Ice Cap (Svalbard) Using Field Observations and Satellite Altimetry**
A. Kouraev, B. Legresy, F. Remy & A. Taurisano

463274 **Statistical Modeling and Classification of ASAR Alternating Polarization Sea Ice Data**
A. Doulgeris, R. Hall, T. Eltoft & S. Trondstad

4P6 Dragon

460344 **Large Scale Land Cover Map Generation Based on Low and Medium Resolution Envisat ASAR Data, Application to Poyang Lake Area (Jiangxi, P.R. China)**
R. Andreoli, S. Huang, J. Li et al.

460731 **Change Detection Analysis Dedicated to Flood Monitoring Using Envisat Wide Swath Mode Data**
R. Andreoli & H. Yesou

460743 **Flood Extent Prediction from Lake Heights and Water Level Estimation from Flood Extents Using River Gauges, Elevation Models and Envisat**
R. Andreoli, J. Li, & H. Yesou

4P7 Education and Training

535420 **ESA Support to Earth Observation Principal Investigators: Preparing for the Next Generation**
Y.-L. Desnos, P. Regner, R. Malosti et al.

464088 African Capacity Building in Satellite Altimetry with the UNESCO-BILKO Programme

V. Byfield, F. Shillington, D. Kirugara et al.

596476 TIGER Capacity Building -- Supporting Water Research in Africa.

L. Ghaye, F. Palazzo, D. Fernandez & Z.(B.) Su

4P8 Floods

463634 Disaster Monitoring with the Integrated Utilization of Envisat and other Satellite Data Sets in the 2004-2006 Period in Hungary

G. Csornai, Zs. Suba, G. Nádor et al.

4P9 Hydrology and Soil Moisture

461140 Surface Soil Moisture Retrieval from Envisat/ASAR AP Observations Combining two Backscattering Models

J. Álvarez-Mozos, M. González-Audícana & J. Casalí

457362 Using Envisat ScanSAR Data for Characterising Scaling Properties of Scatterometer Derived Soil Moisture Information over Southern Africa

D. Sabel, C. Pathe, W. Wagner et al.

458684 Field and Basin Scale Analyses of ASAR Imagery for Soil Moisture Estimation in the Campidano Plain, Sardinia

I. Gherboudj, R. Filion, C. Paniconi et al.

462618 Monitoring of Spring Snowmelt with Envisat ASAR WS in the Eastern Alps by Combination of Ascending and Descending Orbits

A. Bartsch, J. Jansa, M. Schöner & W. Wagner

463064 5 Years of Envisat Asar Soil Moisture Observations in Southern Germany

A. Loew, H. Bach & W. Mauser

4P10 Inland Water Quality

458118 Mapping Chlorophyll-A in Lake Kivu with Remote Sensing Methods

M. Kneubühler, T. Frank, T.W. Kellenberger et al.

461440 Study of the Water Quality of Alqueva Artificial Lake in the South of Portugal Using MERIS Data

M. Potes, M.J. Costa & J.C.B. da Silva

4P11 InSAR Applications: Tectonics

463014 Recent Crustal Movements Along the Carmel Fault System, Israel

R.N. Nof, G. Baer, Y. Eyal & F. Novali

463023 Deformation in the Granada Basin (Southern Betic Cordillera) Studied by PS-InSAR: Preliminary Results

A.M. Ruiz, J.J. Sousa, R.F. Hanssen et al.

463524 Extending the Temporal Coverage of Icelandic Crustal Deformation Measurements through Envisat InSAR Images

R. Pedersen, F. Sigmundsson, A.J. Hooper & K.L. Feigl

4P12 InSAR Applications: Volcanoes

460179 ASAR Not Like-ERS Swaths for Studying the Mt. Etna Ground Deformations

G. Puglisi, F. Guglielmino, A. Bonforte & M. Palano

461320 NRT Monitoring of the 2004 Subglacial Grímsvötn Eruption (Iceland) with Envisat-ASAR Data

U. Münzer, A. Gudmundsson & S. Martinis

464004 ASAR Images a Diverse Set of Deformation Patterns at Kilauea Volcano, Hawai`i

M.P. Poland

463505 Pre-Operative Test-Case of Eurisk-Preview Project During the 2006 Mt. Etna Eruption

F. Guglielmino, C. Spinetti, A. Bonforte et al.

463104 Monitoring Actives Volcanoes by Using of Envisat and ERS Data: First Results of the Eurisk-Preview Project

C. Spinetti, P. Berardino, M.F. Buongiorno et al.

4P13 Mapping and Cartography

507997 ASAR Images Geometric Capabilities for Coastal Mapping; Framework of ESA DUE Coastchart Project - Examples of Coastal Zones of Nigeria and Gabon

H. Trebossen, M. Paganini, J.P. Rudant & B. Rosich

461830 Quantification of Geology Features: From ASAR to 3D Modelling

E. Pajot, J.P. Rudant, D. Dhont & J.P. Xavier

453208 Synergistic Usage of ASAR WS and MERIS Data for Large Scale Water and Vegetation Monitoring in Africa - A Science Product of the Aquifer Project

C. Thiel, J. Reiche, R. Leiterer & C. Schmullius

453849 The Use of SAR Interferometric Coherence Images to Study Sandy Desertification in Southeast Niger: Preliminary Results

C. Bodart & A. Ozer

463824 Coastal Zone Mapping Using Multitemporal ERS SAR and Envisat ASAR Data S. Wade, K. Ba, H. Trebossen et al..

4P14 Ocean Circulation and Sea Features

- 460932 Spatial-Temporal Distribution and Characteristics of Internal Waves in the Okhotsk and Japan Seas
Studied by ERS-1/2 SAR and Envisat ASAR
L. Mitnik & V.A. Dubina
- 461268 Single-Look SAR Images and Detection of Sea Dark Areas
A. Gambardella, F. Nunziata, A. Sorrentino et al.
- 464335 Characterization of Internal Waves in the Strait of Gibraltar, Using SAR Images and In-Situ Measurements
J. Gómez-Enri, A. Vazquez-, M Bruno et al.
- 466590 Mesoscale Sea Surface Currents Derived from Multi-Sensor Satellite Imagery
M. Gade, G. Fiedler & L. Dreschler-Fischer
- 462036 Case Study: Use of SAR Data for the Operational Control of Fishing Ships Positioning
O. Lavrova, S. Shcherbak, M. Mityagina & V. Pyrkov
- 462342 Assessment of SAR Ocean Features Using Optical and Marine Survey Data
M. Thankappan, N. Rollet, C.J.H. Smith et al.

4P15 Ocean Colour

- 459295 The Carbon Cycle from North to South along the Galathea 3 Route
M.B. Christiansen, L.L. Soerensen, J. Nissen & C.B. Hasager
- 507106 Validation of MERIS-Reflectance from Ferries
J. Høkedal & K. Sørensen
- 462918 Synergistic Use of Ferrybox and Envisat Data with the Aid of a Hydrodynamic Transport Model
H. Krasemann & W. Petersen
- 462503 Comparison of Ocean Color Data Products from Meris, Modis, and Seawifs: Preliminary Results for the East China Seas
C. Hu, Y. Wang, Q. Yang et al.
- 462564 Regional Products for the Baltic Sea in the Frame of MARCOAST GSE
H. Krawczyk, A. Neumann, T. Walzel & B. Gerasch

4P16 Sea Surface Temperature

- 461797 Deriving a Sea Surface Temperature Record Suitable for Climate Change Research from the Along-Track Scanning Radiometers
C. Merchant
- 464738
ESA's Medspiration Service
I. Robinson, J.-F. Piolle, P. LeBorgne et al.

4P18 Troposphere and Air Quality

- 461823 Space-Borne Tropospheric NO₂ above the Alpine Region: Evidences of Systematic Retrieval Errors and the Effect of Inaccurate Pixel Surface Pressure
D. Schaub, D. Brunner, F. Boersma et al.
- 458205 Reconstructing Fine-Scale Air Pollution Structures from Coarsely Resolved Satellite Observations
D. Brunner, D. Schaub & B. Buchmann
- 461239 Retrieval of Formaldehyde from High-Resolution MIPAS-Envisat Spectra
T. Steck, N. Glatthor, T. von Clarmann et al.
- 463155 Global Peroxyacetyl Nitrate (PAN) Retrieval in the Upper Troposphere from Limb Emission Spectra of the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS)
N. Glatthor, T. von Clarmann, H. Fischer et al.
- 507381 An Air Quality Study for Greece with the Mm5/CAMx Modeling System
E. Katragkou, I. Kioutsioukis, A. Poupkou et al.
- 462942 Global Observation of Formaldehyde in the Troposphere by Satellites: GOME and SCIAMACHY Results
I. De Smedt, M. Van Roozendael, T. Stavrakou et al.
- 461201 Three Years of SCIAMACHY Carbon Monoxide Measurements
I. Khlystova, M. Buchwitz, H. Bovensmann & J.P. Burrows

4P20 Wetlands and Water Dynamics

- 463040 Remote Sensing and Urban Malaria: Radar Contribution for the Determination of Potential Anopheles Breeding Site in Antananarivo (Madagascar)
F. Rakotomanana, L. Jolivet, R.V. Randremana & J.P. Rudant

Contributed Papers

5A1 Atmospheric Applications

- Chairs: B. Buchmann
- 463750 The PROMOTE Ozone Profile Service - Long-Term 3D Ozone Reanalysis of ERS-2 and Envisat Data Sets

T. Ebertseder, F. Baier, Q. Errera et al.

462502 Using Satellite Aerosol Products for Monitoring National and Regional Air Quality in Austria

R. Höller, P. Garnesson, C. Nagl, & T. Holzer-Popp

508649 First Years Results from Croydon Airtext

I.J. Kilbane-Dawe, S. Potter, L. Johnson et al.

461227 Monitoring of Volcanic Activity from Satellite as Part of GSE PROMOTE

J. Van Geffen, M. Van Roozendael, W. Di Nicolantonio et al.

5A2 Atmospheric Applications, cont.

Chairs: B. Buchmann

463936 GlobAEROSOL an ESA Due Product

Ó. Pérez Navarro, C. Gómez Cid, R. Siddans et al.

541713 Globmodel

W. Lahoz, A. O'Neill, J. Styles & Z. Stott

462808 Improving ASSET Ozone Analyses with Multi-Sensor Assimilation

S. Massart, D.R. Jackson, A. Segers & V-H. Peuch

461250 Monitoring and Assimilation of Envisat NRT Retrievals at ECMWF

R. Dragani

5B1 ESA Toolboxes

Chairs: P. Regner & M. Engdahl

462048 PolSARpro v2.0: The Versatile Educational Toolbox for Polarimetric and Interferometric SAR Data Processing

E. Pottier, L. Ferro-Famil, S. Allain et al.

462492 Basic Radar Altimetry Toolbox and Radar Altimetry Tutorial: A New Set of Tools for All Altimetry Users

V. Rosmorduc, J. Benveniste, N. Picot et al.

507494 BEAT - The Basic Envisat Atmospheric Toolbox

S.V. Niemeijer

462132 Beam 4 An Efficient Development Platform for Optical EO Data

N. Fomferra, C. Brockmann, M. Peters et al

5C1 Sea Surface Temperature

Chairs: I. Robinson & I. Barton

463021 AATSR - Completing the the First 15 Years Global SST for Climate

D.T. Llewellyn-Jones, G.K. Corlett & C.T. Mutlow

503089 Use of Envisat AATSR Data within the GODAE High Resolution SST Pilot Project (GHRSST-PP)

C. Donlon

513266 Use of Envisat AATSR within a High Resolution Near Real Time Global Sea Surface Temperature Analysis System

J. Stark & C. Donlon

507309 Satellite-Derived Sea Surface Temperatures A Case Study of Error Variability

I.J. Barton

5C2 Education and Training

Chairs: M. Fea & F. Sarti

464090 Observing the Ocean from Envisat: A UNESCO-Bilko Teaching Module on Marine Applications of Envisat Data

V. Byfield, C. Donlon, J.C. Da Silva et al.

509575

Using Real-Time Satellite Data in the Classroom: The Argonautica and Calisph'Air Educational Projects

D. de Staerke, A. Richardson & D. Robinson

458864 Envisat for School: The Satellite Eye for the Galathea 3 Expedition

J. Lichtenegger, P.B. Sørensen, C.B. Hasager et al.

553205

Eduspace - A Multi-Lingual Earth Observation Website for Teaching and Learning

L. Ghaye, M. Fea, J. Lichtenegger et al.

5D1 Sentinel-1, the Future European Radar Observatory

Chairs: E. Attema & M. Davidson

589407 Modeling Interferogram Stacks for Sentinel -1

F. Rocca

5D2 Third Party Missions

Chair: B. Hoersch

461892 The Atmospheric Chemistry Experiment (ACE): Status and Results

P.F. Bernath

463366 The

TanDEM-X

Mission

M. Zink, G. Krieger, H. Fiedler et al.

587954 COSMO-SkyMed Program: Utilization and Description of an Advanced Space EO Dual-Use Asset
A. Coletta, G. Angino, F. Battazza et al.

5E1 Mapping and Cartography, cont.

Chairs: D. Derauw & F. Holecz

463953 Earth Observation for Environmental and Health Impact Assessment - A Methodology with Synergies for European Policies

A.N. Skouloodis, D.G. Rickerby & P. Paert

452229 Remote Sensing and GIS Contribution to Natural Hazard Risk Site Detection - Demonstrated by Examples from N-Venezuela, Central Italy and SW-Germany / NW-Switzerland

B. Theilen-Willige

461859 Validation of the PS Height EstimateS by Means of Photogrammetry

D. Perissin

5E2 Mapping and Cartography, cont.

Chairs: F. Holecz & D. Derauw

461545 SAR Superresolution Change Detection for Security Applications

R. Romero, J. Sanz-Marcos, D. Carrasco et al.

462912 Automatic Detection of Archeological Sites Using a Hybrid Process of Remote Sensing, GIS Techniques and a Shape Detection Algorithm

I. Bridgwood, M. Schultz Rasmussen, M.K. Sørensen et al.

512825

Browsing the Scales - The CARTO-CHANGE Project

U. Gangkofner, J. Weichselbaum, C. Hoffmann et al.

5F1 Operational Sea Ice Monitoring and Modelling

Chairs: W. Dierking & O. Grabak

459869 C-Band Multiple Polarization SAR for Ice Monitoring - What can it Do for the Canadian Ice Service

M. Arkett, D. Flett & R. De Abreu

463053 Iceberg Observations in the Barents Sea by Radar and Optical Satellite Images

S. Sandven, M. Babiker & K. Kloster

5F2 CryoSat-2

Chairs: R. Francis & P. Gilles

589330

Cryosat: From Disaster to Rebirth

R. Francis & P. Gilles

589350

The Challenge to Rebuild CryoSat

W. Bruzek, U. Mallow, L. Rey & L. Rys

589375

Artic Experiments to Support CryoSat

R. Cullen, M.W.J. Davidson, C.R. Francis & D.J. Wingham

5G1 Ocean Circulation and Sea Features

Chairs: J. Johannessen & M.X. He

462250 Using Envisat ASAR for the Study of Winter Mesoscale Cyclones in the Asia Marginal Seas

M.L. Mitnik, L. M. Mitnik & I.A. Gurvich

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X Li, J. Chong, Jinsong; Zhu, Minhui

Exhibitors

List of Participants

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Committees

Scientific Committee

F. Achard, JRC, Global Environmental Monitoring Unit Institute for Environment and Sustainability
Joint Research Centre of the European Commission, Italy
J. Aiken, Plymouth Marine Laboratory, UK
H. Bach, Vista - Remote Sensing Applications in Geosciences, Germany
R. Bamler, German Aerospace Center DLR, Applied Remote Sensing Cluster DFD-IT, Germany
F. Baret, Institut National de Recherche Agronomique CSE, France
I. Barton, CSIRO Marine Research, Australia
A. Bartsch, Vienna University of Technology, Austria
P. Bernath, Department of Chemistry, University of Waterloo, Canada
P. Berry, De Montfort University, UK
I. Bey, Swiss Federal Institute of Technology (EPFL) EPFL ENAC-LMCA, Switzerland
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C. Brockmann, Brockmann Consult, Germany
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J. Burrows, University of Bremen, Germany
B. Carli, CNR, Italy
M. Carlotti, Dip. Chimica Fisica e Inorganica. Univ. Bologna, Italy
J.-L. Casanova, Laboratorio de Teledetección-LATUV Facultad de Ciencias, Spain
P. Challenor, Southampton Oceanography Centre, UK
K. Chance, Harvard-Smithsonian Center for Astrophysics, USA
P. Cipollini, National Oceanography Centre, Southampton, UK
R. Cordey, Science & Exploration Business Development, UK
P. Curran, University of Southampton, UK
D. Derauw, Centre Spatial de Liège (CSL) Spatial Centre of Liège (SCL), Belgium
W. Dierking, Alfred Wegener Institute for Polar and Marine Research, Germany
R. Doerffer, GKSS, Germany
C. Donlon, Met Office, GODAE High Resolution SST Pilot Project, UK
H. Elbern, Rhenish Institute for Environmental Research at the University of Cologne, Germany
Y. Fialko, University of California, San Diego, USA
H. Fischer, Forschungszentrum Karlsruhe GmbH, Germany
J. Fischer, Institut für Weltraumwissenschaften, Freie Universität Berlin, Germany
M. Furuya, Earthquake Research Institute, Tokyo University, Japan
N. Gobron, EC's Joint Research Centre (JRC), Italy
J. Gower, Institute of Ocean Sciences, Canada
D. Griffin, CSIRO, Australia
I. Hajnsek, German Aerospace Center, Microwaves and Radar Institute, Germany
R. Hanssen, Delft University of Technology, Netherlands
A. Hauchecorne, Directeur du Service d'Aéronomie, France
M.-X. He, Ocean Remote Sensing Institute Ocean University of China, China
E. Hilsenroth, NASA Goddard Space Flight Center, USA
F. Holecz, SARMAP, Switzerland
B. Holt, Jet Propulsion Laboratory, USA
J. Hyppä, Finnish Geodetic Institute, Finland
P.A.E.M. Janssen, ECMWF, UK
J. Johannessen, Nansen Environmental and Remote Sensing Center NERSC, Norway
H. Johnsen, NORUT IT, Norway
C. Justice, University of Maryland, Department of Geography, USA
H. Kelder, KNMI, Netherlands
V. Kerbaol, BOOST Technologies, France
B. Kerridge, Rutherford Appleton Laboratory, UK
G. Kirchengast, Wegener Center for Climate and Global Change, University of Graz, Austria
P. Knudsen, Danish National Space Center, Department of Geodesy, Denmark
E. Kyrölä, Finnish Meteorological Institute Earth Observation, Finland
W. Lahoz, University of Reading, UK
R. Lanari, IREA-CNR, Italy
S. Lavender, School of Earth, Ocean and Environmental Sciences (SEOES), UK
S. Laxon, University College London, UK
T. Le Toan, CESBIO, France
S. Lehner, Deutsches Zentrum für Luft- und Raumfahrt e.V., Germany
P. Levelt, KNMI (Royal Netherlands Meteorological Institute), Netherlands
J. Li, Remote Sensing Technology Application Center, Ministry of Water Resources, China
Z. Li, Forest Resources Information Technique, Chinese Academy of Forestry, China
J. Lillibridge, NOAA Laboratory for Satellite Altimetry, USA
J. Mallorqui, Dept. Teoria del Senyal i Comunicacions, Spain
D. Massonnet, Centre National d'Etudes Spatiales CNES, France
C. Mätzler, Institute of Applied Physics, University of Bern, Switzerland
W. Mauser, University of Munich - Institute for Geography, Germany
A. Monti-Guarnieri, Politecnico di Milano, Italy
A. Moreira, Deutsches Zentrum für Luft- und Raumfahrt e.V (DLR), Germany
A. Morel, LPCM, France
J. Moreno, University of Valencia, Department of Thermodynamics, Spain
J.-P. Muller, University College London, UK
C. Mutlow, RAL, UK
B. Parsons, University of Oxford, UK
B. Pinty, EC's Joint Research Centre JRC, Italy
U. Platt, Institute for Environmental Physics, Germany
J. Privette, Remote Sensing and Applications Division NOAA/NESDIS National Climatic Data Center (NCDC), USA

M. Puertas-Lopez, Instituto de Astrofisica de Andalucia (CSIC), Spain
J. Pulliainen, Helsinki University of Technology, Finland
P. Queffeuilou, CERSAT IFREMER-Centre de Brest, France
S. Quegan, SCEOS, Sheffield University, UK
F. Remy, Observatoire Midi-Pyrénées, France
E. Rignot, Jet Propulsion Laboratory/CalTech, USA
I. Robinson, National Oceanography Centre, University of Southampton Waterfront Campus, UK
F. Rocca, Dipartimento di Elettronica e Informazione Politecnico di Milano, Italy
H. Rott, University of Innsbruck, Austria
J.-P. Rudant, IFG, Universite de Marne la Vallee, France
K. Ruddick, Management Unit of the North Sea Mathematical Models (MUMM/UGMM/BMM), Royal Belgian Institute for Natural Sciences (RBINS), Belgium
D. Sandwell, Institute of Geophysics and Planetary Physics Scripps Institution of Oceanography University of California San Diego, USA
R. Santer, Universite' du Littoral, France
R. Scharroo, Altimetrics LLC, USA
C. Schmullius, Friedrich-Schiller-University Jena, Institute of Geography, Germany
J. Schroeter, Alfred-Wegener-Institute for Polar and Marine Research, Germany
M. Shimada, Earth Observation Research and Application Center (EORC), JAXA, Japan
C.K. Shum, Civil & Environmental Engineering & Geodetic Science Laboratory for Space Geodesy & Remote Sensing, USA
P. Simon, Belgian Institute for Space Aeronomy, Belgium
D. Small, Remote Sensing Laboratories - University of Zürich, Switzerland
J.C. Souyris, Centre National d'Etudes Spatiales (CNES), France
D. Stammer, Institut fuer Meereskunde Zentrum fuer Meeres- und Klimaforschung Universitaet Hamburg, Germany
P. Stammes, Royal Netherlands Meteorological Institute (KNMI), Netherlands
T. Strozzi, Gamma Remote Sensing, Switzerland
B. Su, Spatial Hydrology and Water Resources Management International Institute for Geo-Information Science and Earth Observation (ITC), Netherlands
J. Tamminen, Finnish Meteorological Institute, Finland
P. Vachon, Defence R&D Canada, Canada
M. Verstraete, Space Application Institute EC Joint Research Center, Italy
S. Vignudelli, CNR, Italy
G. Wadge, Environmental Systems Science Centre, UK
W. Wagner, Inst. of Photogrammetry and Remote Sensing, Vienna University of Technology, Austria
U. Wegmüller, Gamma Remote Sensing, Switzerland
T. Wright, University of Leeds, UK
S. Wunderle, University Bern - Remote Sensing Research Group, Switzerland
H. Yesou, SE RTIT, France
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