

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Wed, 17 Jun 2009 **RSCZ 0**

08:30 Registration

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Wed, 17 Jun 2009 **RSCZ 0 (Room H)**

11:00 **COST ACTION**

Carine Petit, Cost Office, Brussels

11:30 **EARSeL General Assembly**

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Thu, 18 Jun 2009 **RSCZ 0**

08:30 Registration

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Thu, 18 Jun 2009 **Session RSCZ 1 (Room G)**

09:00 Workshop Opening

09:10 Climate Change

Trends of Atmospheric and Seawater Temperature in the German Bight

Rainer Reuter, Thomas Badewien & Jürgen Rullkötter

Rainer Reuter, Thomas H. Badewien, Jürgen Rullkötter

09:10 - 09:30

Continental and Atmospheric Forcing of Near-coastal Ecosystem Dynamics in the Eastern Mediterranean Sea

Vittorio Barale & Martin Gade

Vittorio Barale, Martin Gade

09:30 - 09:50

The Coastal Zone Management in Adapting to Climate Change

Niendyawati Supardan, Mone Iye Cornelia Marschiavelli & Doddy Mendro

Yuwono

Niendyawati Supardan, Mone Iye Cornelia Marschiavelli, Doddy Mendro Yuwono

09:50 - 10:10

Remote Sensing Analysis of Desertification Trend in Eastern Sicily

Filippo Catani & Minja Kukavicic

Filippo Catani, Minja Kukavicic

10:10 - 10:30

10:30 Coffee Break

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Thu, 18 Jun 2009 **Session RSCZ 2 (Room H)**

11:00 Instrument Presentation

Field Spectroradiometry Demonstration

11:00 - 11:30

11:30 Symposium Tutorial

New Trends for GIS and Remote Sensing Software Packages

Lawrie Jordan, ESRI Director Imagery Enterprise Solutions

11:30 - 12:30

13:00 Lunch

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Thu, 18 Jun 2009 **Session RSCZ 3a (Room C)**

14:00 Coastal Zone Management

Studies of Another Type of Coastal Zone

Preben Gudmandsen & Roberto Saldo

Preben Gudmandsen, Roberto Saldo

14:00 - 14:20

Calculation of Erosion and Accretion Rates along the Gaza Coastal Zone Using Remote Sensing and Geoinformation Systems

Khaldoun Salman Abu Alhin

Khaldoun Salman Abu Alhin

14:20 - 14:40

Identification of Morphologic and Hydrodynamic Features/Patterns Using Image Classification Techniques

Joaquim L. Pais-Barbosa, Ana C. Teodoro, Fernando F. Veloso-Gomes & Francisco A. Taveira-Pinto

Joaquim L. Pais-Barbosa, Ana C. Teodoro, Fernando F. Veloso-Gomes, Francisco A. Taveira-Pinto

14:40 - 15:00

Soil Salinity Evaluation Using ASTER Data in Golestan Province, West Region of Caspian Sea, Iran

Maryam Shirani, Abbas Pashaei, Fatemeh Molla Mehr Alizadeh & Mehdi Shekarbeigi

Maryam Shirani, Abbas Pashaei, Fatemeh Molla mehr alizadeh, Mehdi Shekarbeigi

15:00 - 15:05

Performance of Intrinsic and Soil Line-based Vegetation Indices in Mangrove Mapping in Malaysia

Mohd Hasmadi Ismail, Che Ku Akmar Che Ku Othman & Norsaliza Usali

Mohd Hasmadi Ismail, Che Ku Akmar Che Ku Othman, Norsaliza Usali

15:05 - 15:10

The Study of Arvand Delta Changes by Use of RS, GIS and Fuzzy Logic since 1989 to 2007

Jafar Morshedi & Seyed Kazem Alavi Panah

Jafar Morshedi, Seyed Kazem Alavi panah

15:10 - 15:15

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Soil Run-off Prediction at Coastal Zones by Using GIS & Remote Sensing

Berk Üstün

Berk Üstün

15:15 - 15:20

Discriminating Spectral Characteristics of Hard Coral Species in Tropical Waters

Nur Jannah Nurdin & Chair Rani

Nur Jannah Nurdin, Chair Rani

15:20 - 15:25

High Resolution Remote Sensing Data Evaluation for Integrative Vulnerability Assessment in the Coastal Region of Rio de Janeiro (Brazil)

Sebastian Franz, Flavia Moraes Lins-de-Barros, Dieter Muehe & Volker

Hochschild

Sebastian Franz, Flavia Moraes Lins-de-Barros, Dieter Muehe, Volker Hochschild

15:25 - 15:30

15:30 Coffee break

Thu, 18 Jun 2009 **Session RSCZ 3b (Room D)**

14:00 Laser Applications

Evolution of hyperspectral FLS®-LiDAR for Marine Applications

Sergey Babichenko, Alexey Lisin, Larisa Poryvkina, Sergei Shchemelyov & Alexandre Vorobiev

Sergey Babichenko, Alexey Lisin, Larisa Poryvkina, Sergei Shchemelyov, Alexandre Vorobiev

14:00 - 14:20

Bio-optical Characterization of the Water Masses off the Svalbard Islands by Laser-induced Fluorescence

Luca Fiorani, Eduardo Bueno, Francesco Colao, Elena Demetrio, Annalisa Di Cicco, Violeta Lazic, Antonio Palucci, Claudio Poggi & Maria Sighicelli

Luca Fiorani, Eduardo Bueno, Francesco Colao, Elena Demetrio, Annalisa Di Cicco, Violeta Lazic, Antonio Palucci, Claudio Poggi, Maria Sighicelli

14:20 - 14:40

SESAME 2008 Spring Mediterranean Oceanographic Campaign: LIF Determination of CDOM and Phytoplankton Distribution

Antonio Palucci, Francesco Colao & Maria Sighicelli

Antonio palucci, Francesco Colao, Maria Sighicelli

14:40 - 15:00

Proof of Concept of a Brillouin-LIDAR for Remote Sensing of Oceanic Temperature Profiles

Alexandru Popescu, Kai Schorstein & Thomas Walther

Alexandru Popescu, Kai Schorstein, Thomas Walther

15:00 - 15:20

Evaluation of Planktonic Densities on Romanian Black Sea Coast

Jeni Vasilescu, Teodora Onciu, Laura Jugaru & Livio Belegante

Jeni Vasilescu, Teodora Onciu, Laura Jugaru, Livio Belegante

15:20 - 15:25

Humic Substances as Fluorescent Indicator of Hydrological Structures in Inland Reservoirs

Irina V. Fadeeva, Sergei A. Dolenko, Vasiliy A. Kravtsov, Peter A. Volkov, Nikolay N. Sysoev & Victor V. Fadeev

Irina V. Fadeeva, Sergei A. Dolenko, Vasiliy A. Kravtsov, Peter A. Volkov, Nikolay N. Sysoev, Victor V. Fadeev

15:25 - 15:30

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

15:30 Coffee Break

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Thu, 18 Jun 2009 Session RSCZ 4a (Room C)

16:00 Radar

Radar Imaging Mechanism of Underwater Wrecks in Coastal Waters with Strong Tidal Currents

Ingo Hennings

Ingo Hennings

16:00 - 16:20

Remote Sensing of Bora Events over the North East Black Sea with Spaceborne Synthetic Aperture Radar

Andrei Yu Ivanov

Andrei Yu Ivanov

16:20 - 16:40

Ice Cover Regime of Eurasian Lakes and Inland Seas from in situ and Satellite Observations

Alexei V. Kouraev, Michail N. Shimaraev, Petr I. Buharizin, Michail A. Naumenko, Jean-Francois Cretaux, Nelly M. Mognard, Benoit Legresy & Frederique Remy

Alexei V. Kouraev, Michail N. Shimaraev, Petr I. Buharizin, Michail A. Naumenko, Jean-Francois Cretaux, Nelly M. Mognard, Benoit Legresy, Frederique Remy

16:40 - 17:00

17:00 Sea Surface Temperature

Monthly Averages of Sea Surface Temperature over Tuscany Sea

Maurizio Tommasini, Monica Innocenti, Giulia Adembri, Monica Gherardelli, Pier Franco Pellegrini & Gabriele Poli

Maurizio Tommasini, Monica Innocenti, Giulia Adembri, Monica Gherardelli, Pier Franco Pellegrini, Gabriele Poli

17:00 - 17:20

Utility of Thermal Infrared Satellite Imagery to Locate Groundwater Discharges in Coastal Lagoons

John Rapaglia, Athanasios Vafeidis & Tina Geisler

John Rapaglia, Athanasios Vafeidis, Tina Geisler

17:20 - 17:40

Long-term Analysis of Satellite-derived Sea Surface Temperature (SST) and Ocean Colour (OC) in Coastal Waters of the Azores Archipelago

Paolo Lambardi & Ana Martins

Paolo Lambardi, Ana Martins

17:40 - 18:00

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

19:30 Icebreaker Party (Room K)

Thu, 18 Jun 2009 Session RSCZ 4b (Room D)

16:00 Hydrology

Calculation of Evapotranspiration for a Water Budget Using LANDSAT Data and Aerial Photographs: A Comparative Study

Julie Earls, Barnali Dixon & Andy Mauromoustakos

Julie Earls, Barnali Dixon, Andy Mauromoustakos

16:00 - 16:20

Freshwater Input to the Ob' Estuary and Modern Hydrological Regime of the Northern Part of Western Siberia

Elena A. Zakharova, Alexei V. Kouraev, Maria V. Kolmakova, Nelly M. Mognard, Valeriy Zemtsov & Sergey N. Kirpotin

Elena A. Zakharova, Alexei V. Kouraev, Maria V. Kolmakova, Nelly M. Mognard, Valeriy Zemtsov, Sergey N. Kirpotin

16:20 - 16:40

The Impact of Vistula River Discharge on Spatial and Temporal Variability of the Euphotic Zone Depth in the Gdansk Bay

Mirosław Darecki

Mirosław Darecki

16:40 - 17:00

Effect of Leachate on Reclamation of Qualitative Properties Soil in East of Esfahan

Golnaz Sharifianpour, Naser Honarjo, Payam Najafi & Marjan Shirani

Golnaz Sharifianpour, Naser honarjo, Payam Najafi, Marjan Shirani

17:00 - 17:05

Evaluation Effect of Passed Time on Garbage Leachate

Marjan Shirani

marjan shirani

17:05 - 17:10

Effect of Using Treated Garbage Leachate on Some of Soil's Biological and Chemical Properties

Marjan Shirani

Marjan Shirani

17:10 - 17:15

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Measurement in a bottle

Mario Hoppmann, Axel Braun, Thomas Badewien & Rainer Reuter

Mario Hoppmann, Rainer Reuter, Axel Braun, Thomas Badewien

17:15 - 17:20

Image Processing Techniques Applied to the Study of Lake Trasimeno, Italy

Paolo Villa, Mariano Bresciani, Claudia Giardino & Angiolo Martinelli

Paolo Villa, Mariano Bresciani, Claudia Giardino, Angiolo Martinelli

17:20 - 17:25

19:30 Icebreaker Party (Room K)

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 5a (Room C)**

09:00 Hazards

Monitoring of Mangrove Forests after the Major Tsunami Disaster in 2004 in Thailand Using High Resolution Satellite Data

Yasumasa Hirata, Ryuichi Tabuchi, Pipat Patanaponpaiboon, Sasitorn Pongparn, Reiji Yoneda & Yoshizo Fujioka

Yasumasa Hirata, Ryuichi Tabuchi, Pipat Patanaponpaiboon, Sasitorn Pongparn, Reiji Yoneda, Yoshizo Fujioka

09:00 - 09:20

On Novel Possibilities of Using Phytoplankton as a Bioindicator of Toxicants in Natural Waters

Timofey S. Gostev, Fyodor I. Kouzminov, Vladimir Z. Paschenko & Victor V. Fadeev

Timofey S. Gostev, Fyodor I. Kouzminov, Vladimir Z. Paschenko, Victor V. Fadeev

09:20 - 09:40

Laser Diagnostics of Humic Substances as Natural Detoxicants and Fluorescent Indicators of Pollutants in Water

Peter A. Volkov, Vasiliy A. Kravtsov, Natalia Yu. Grechischeva, Natalia S. Scherbina & Victor V. Fadeev

Peter A. Volkov, Vasiliy A. Kravtsov, Natalia Yu. Grechischeva, Natalia S. Scherbina, Victor V. Fadeev

09:40 - 10:00

Monitoring of Marine Pollution by Means of Remote Sensing

Christina Klose, Valborg Byfield, Rainer Reuter & Colette Robertson

Christina Klose, Valborg Byfield, Rainer Reuter, Colette Robertson

10:00 - 10:20

Detection and Evaluation of Oil Spills by Optical Methods

Rui M.C.S. Vilar, Sergey Babichenko, Luisa Bastos, Jesús Torres Palenzuela, Julio Martín-Herrero, Alexander Lavrov & Andrei B Utkin

Rui M.C.S. Vilar, Sergey Babichenko, Luisa Bastos, Jesús Torres Palenzuela, Julio Martín-Herrero, Alexander Lavrov, Andrei B. Utkin

10:20 - 10:23

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Assessment of the Impact of Dec .26, 2004 Tsunami over Andaman and Nicobar Islands Using Remote Sensing and GIS Techniques

Manoharan Raja Manickam

Manoharan Raja Manickam

10:23 - 10:25

Tsunami Hazard Assessment Using Remote Sensing and GIS Techniques along the Coast between Tanga Apatnam and Ovari, Tamilnadu

Manoharan Raja Manickam

Manoharan Raja Manickam

10:25 - 10:27

LDS on Remote Sensing Based in Deep

Mansour Ahmadi Foroushani & Samera Dolati Milehsara

Mansour Ahmadi Foroushani, Samera Dolati Milehsara

10:27 - 10:30

10:30 Coffee break

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 5b (Room D)**

09:00 Ocean Colour

Use of MERIS Data in the Wadden Sea

Annelies Hommersom, Steef Peters, Marcel R. Wernand, Hans J. van der Woerd & Jacob de Boer

Annelies Hommersom, Steef Peters, Marcel R. Wernand, Hans J. van der Woerd, Jacob de Boer

09:00 - 09:20

Remote Sensing Monitoring Phytoplankton Blooming in Qingdao Sea Area by MODIS

Chuanqing Wu, Qiao Wang, Changzuo Wang & Li Zhu

Chuanqing Wu, Qiao Wang, Changzuo Wang, Li Zhu

09:20 - 09:40

Properties of Tropical Coastal Waters from MERIS Data around the Berau Estuary, Indonesia

Wiwin Ambarwulan, Chris Mannaerts, Mhd. Suhyb Salama & Wouter Verhoef

Wiwin Ambarwulan, Chris Mannaerts, Mhd. Suhyb Salama, Wouter Verhoef

09:40 - 10:00

Use of MODIS High Resolution Data for Study of Atmospheric Processes by their Imprint on the Seas Surface

Marina A. Evdoshenko

Marina A. Evdoshenko

10:00 - 10:20

Estimation of Suspended Sediment Concentrations in Inland Waters Using Terra\ASTER Images

Ali Moridnejad, Mohamadreza Mobasheri & Jamal Mohamad Vali Samani

Ali Moridnejad, Mohamadreza Mobasheri, Jamal Mohamad Vali Samani

10:20 - 10:25

OCOC - from Ocean Colour to Organic Carbon

Birgit Heim, Paul P. Overduin, Lutz Schirrmeister & Roland Doerffer

Birgit Heim, Paul P. Overduin, Lutz Schirrmeister, Roland Doerffer

10:25 - 10:30

10:30 Coffee Break

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 6a (Room C)**

11:00 Optics and Spectroscopy

SESAME 2008 Spring Mediterranean Oceanographic Campaign: In-situ Determination of Fluorescence Dissolved and Particulated Organic Matter

Antonio Palucci, Francesco Colao, Antonella Lai & Maria Sighicelli

Antonio Palucci, Francesco Colao, Antonella Lai, Maria Sighicelli

11:00 - 11:20

Characterization of Dissolved Organic Matter Fluorescence in the South Atlantic Bight with Use of a PARAFAC Model

Piotr Kowalczyk, William J. Cooper, Michael J. Durako, Amanda E. Kahn & Michael Gonsior

Piotr Kowalczyk, William J Cooper, Michael J Durako, Amanda E Kahn, Michael Gonsior

11:20 - 11:40

“Blue shift” of Emission Maximum and Fluorescence Quantum Yield as Qualitative Spectral Characteristics of Dissolved Humic Substances

Daria Shubina, Elena Fedoseeva, Olga Gorshkova, Svetlana Patsaeva, Mikhail Timofeev, Vera Terekhova & Viktor Yuzhakov

Daria Shubina, Elena Fedoseeva, Olga Gorshkova, Svetlana Patsaeva, Mikhail Timofeev, Vera Terekhova, Viktor Yuzhakov

11:40 - 12:00

Time-series Measurement of Suspended Particulate Matter (SPM) in Turbid Coastal Waters

Thomas H. Badewien, Alexander Bartholomae & Rainer Reuter

Thomas H. Badewien, Alexander Bartholomae, Rainer Reuter

12:00 - 12:20

Diagnostics of Inorganic Substances in Water by Method of Raman Spectroscopy Using Adaptive Neural Networks Algorithms

Tatiana Aldefonsova Dolenko & Sergey Alekseevich Burikov

Tatiana Aldefonsova Dolenko, Sergey Alekseevich Burikov

12:20 - 12:25

The UV Fluorescence Emission in Natural Water Spectra

Svetlana Patsaeva, Elena Fedoseeva, Olga Gorshkova, Daria Shubina & Viktor Yuzhakov

Svetlana Patsaeva, Elena Fedoseeva, Olga Gorshkova, Daria Shubina, Viktor Yuzhakov

12:25 - 12:30

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

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Fri, 19 Jun 2009 **Session RSCZ 6b (Room D)**

11:00 Coastal Habitat

High Resolution Seaweed Mapping with Hyperspectral Airborne Remote Sensing

Christina Mehrtens, Inka Bartsch, Frederic Tardeck, Nora Graser & Carsten Borowy

Christina Mehrtens, Inka Bartsch, Frederic Tardeck, Nora Graser, Carsten Borowy

11:00 - 11:20

Microphytobenthos Biomass and Production Monitoring on Intertidal Mudflats Using Remote Sensing

Aaike De Wever, Rodney Forster, Wim Vyverman & Koen Sabbe

Aaike De Wever, Rodney Forster, Wim Vyverman, Koen Sabbe

11:20 - 11:40

Multiyear Space Monitoring of Shoreline Fluctuations and Vegetation Status in Northeast Caspian Coastal Zone

Nadiya R. Muratova, Svetlana M. Severskaya, Alexey G. Terekhov, Nataliya Yu. Tsyhuyeva & Emil B. Sagitaev

Nadiya R. Muratova, Svetlana M. Severskaya, Alexey G. Terekhov, Nataliya Yu. Tsyhuyeva, Emil B. Sagitaev

12:00 - 12:20

Use of Remote Sensing Methods in Monitoring Mussel Beds in the Wadden Sea

Laure Roupioz, Anne Schmidt, Henk Kramer, Frouke Fey, Jenny Cremer, Elze Dijkman, Jeroen Jansen & Norbert Dankers

Laure Roupioz, Anne Schmidt, Henk Kramer, Frouke Fey, Jenny Cremer, Elze Dijkman, Jeroen Jansen, Norbert Dankers

12:20 - 12:25

Monitoring Wetlands along the 'Western-Greek Bird Migration Route' Using Landsat and ASTER Satellite Images: Amvrakikos Gulf (Greece)

Liesbeth Bortels, Nico Koedam, Faidra Bazigou, Ronny Merken, Jonathan C.W. Chan & Ruth Lagring

Liesbeth Bortels, Nico Koedam, Faidra Bazigou, Ronny Merken, Jonathan C.W. Chan, Ruth Lagring

12:25 - 12:30

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 6c (Room C)**

12:30 Interactive Poster Session 1

13:00 Lunch

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 7 (Room C)**

14:00 Round Table Discussion

15:00 Interactive Poster Session 2

15:30 Coffee Break

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Fri, 19 Jun 2009 **Session RSCZ 8 (Room C)**

16:00 Multisensor Applications

**Complex Aerial Surveys Using for Engineering and Ecological Prospects
(as an Example of Bajdaratskaya Bay)**

Sergey Anatolievich Egorov, Sergey Vasilievich Zyryanov & Vladimir Borisovich Zabavnikov

Sergey Anatolievich Egorov, Sergey Vasilievich Zyryanov, Vladimir Borisovich Zabavnikov

16:00 - 16:15

**Towards an Improved Classification System of Dry-Fallen Intertidal Flats in
the German Bight Using Microwave and Optical Remote Sensing Data**

Martin Gade & Kerstin Stelzer

Martin Gade, Kerstin Stelzer

16:15 - 16:30

**Multi-Sensor Remote Sensing of Historical Landuse Areas in the German
Wadden Sea**

Jörn Kohlus & Martin Gade

Jörn Kohlus, Martin Gade

16:30 - 16:45

**Monitoring the Evolution of the Tidal Estuary of the Scheldt River and its
Upstream River Network Based on LiDAR and Airborne Imaging
Spectroscopy**

Dries Raymaekers, Luc Bertels, Els Knaeps & Daphne van der Wal

Dries Raymaekers, Luc Bertels, Els Knaeps, Daphne van der Wal

16:45 - 17:00

19:30 Workshop Dinner (Room H)

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Sat, 20 Jun 2009 **Session RSCZ 9**

09:00 European Space Agency

LEOWorks Applications in the Coastal Zone

Francesco Sarti & Steffen Dransfeld, ESA ESRIN, Frascati, Italy

09:00 - 10:00

4th EARSeL Workshop on Remote Sensing of the Coastal Zone

Sat, 20 Jun 2009 **Workshop Excursion**

10:30 Excursion and Experiments aboard Ship