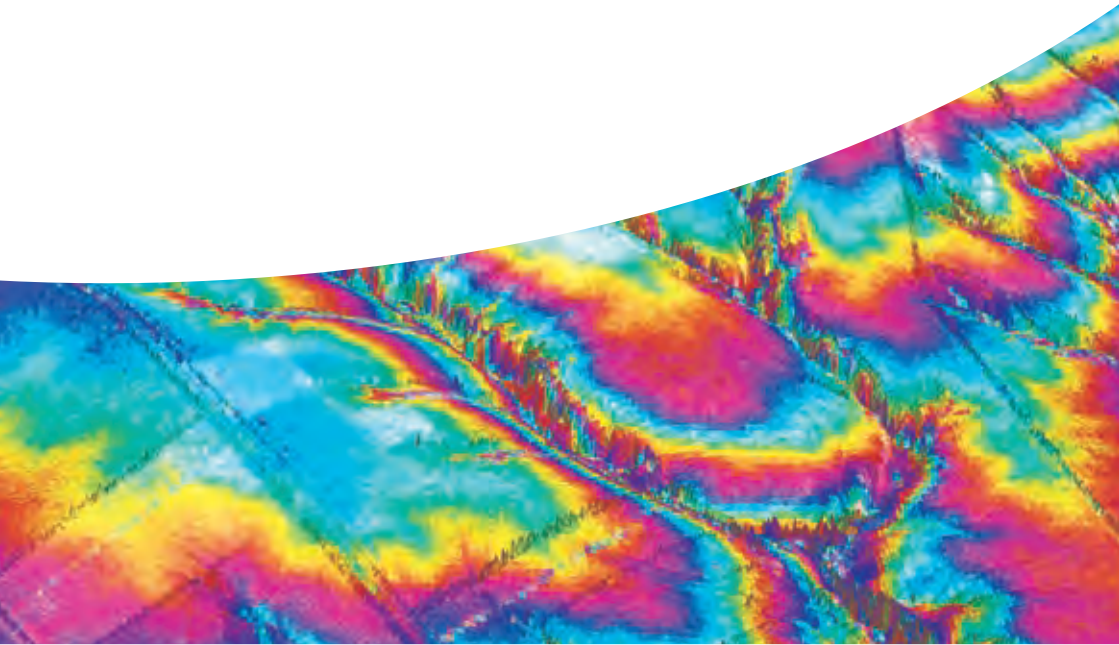




**The 36th International Symposium
on Remote Sensing of Environment**
11-15 May 2015, Berlin, Germany

Programme



Sponsors

Platinum



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Exhibitors



Hosted by the German Aerospace Center DLR



in partnership with the International Center for Remote Sensing of Environment



ISRSE is a conference of the International Society for Photogrammetry and Remote Sensing



Observing the Earth, Monitoring the Change, Sharing the Knowledge!

Welcome to the 36th International Symposium on Remote Sensing of Environment. This symposium takes place at a significant moment: The process to define the UN global development agenda post 2015 with its Sustainability Development Goals will be finalized in 2015. The Future Earth initiative has been created as a global platform to deliver solution-orientated research for sustainability. Among its key challenges are innovative approaches to integrate knowledge systems (data, observation, modelling, etc.), including remote sensing of the environment. A second Hyogo Framework of Action with its goal to substantially reduce disaster losses is launched in 2015, where Earth observation approaches play an increasing role in making societies resilient to disasters. The global Group on Earth Observations (GEO), together with its partners, such as the Committee on Earth Observing Satellites (CEOS), addresses these political and scientific agendas while it currently prepares for its second implementation phase 2016-2025. International science organizations, such as the International Society of Photogrammetry and Remote Sensing (ISPRS) are adapting their structure to master the research and development included in these challenges.

ISRSE-36 will be an excellent forum to present results from past and current scientific achievements related to such international developments, as well as to discuss future plans for them. It features recent milestones in the development of Earth observation programmes addressing sustainable development, global environmental issues and resilience to disasters. It is an outstanding opportunity to learn about major EO programmes, such as the European Copernicus Programme or DLR's missions, and their first results. It is an important forum to present applications based on these new missions and to exchange views on future directions of Earth Observation technology and geographic information management. The Symposium includes plenary and thematic sessions, poster sessions and special events on issues of interest to scientists, policy makers and resource managers in the public and private sectors. Its programme features speakers from around the globe sharing their experiences and knowledge on Earth observation applications and programmes. By attending the ISRSE-36, practitioners, scientists, policy makers, system engineers and students will be able to get a full view of the current situation in Remote Sensing now deemed critical in the Earth's sustainable management.

We would like to cordially welcome you in Germany and wish you all success for the 36th ISRSE. Besides, don't forget to enjoy your stay in Berlin during the time of the symposium. Have a good time.

Prof. Johann-Dietrich Wörner, Chairman of the Executive Board of the German Aerospace Center (DLR)



The European Commission is the executive body of the European Union (EU) and represents the interests of Europe as a whole. With its Space activities, the Commission aims to bring space 'down to Earth' by demonstrating its relevance and direct application for services to society. Copernicus, the Union's Earth observation programme, is the second flagship programme after Galileo. Additionally, Research and Innovation are part of the EU's strategic priorities.

In January 2014 the EU launched Horizon 2020, the biggest research and innovation programme ever, with a budget of almost €80 billion over the seven years of the programme (2014-2020). Europe is facing a number of long-term major societal and environmental challenges which require an appropriate policy reaction. As many of these challenges are global in nature, the EU is a driving force within the Group on Earth Observation (GEO), and Copernicus is Europe's contribution to the Global Earth Observation Systems of Systems (GEOS).



Space



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General Information

Introduction

This booklet contains all organizational and programme information for the 36th International Symposium on Remote Sensing of Environment (ISRSE_36), held at the Berlin Conference Center (bcc), Germany, from 11 to 15 May 2015.

Registration

The Registration Desk for the Symposium is located in Level A and will be opened according to the following schedule:

Sunday,	10 May 2015	14:00 – 18:00
Monday,	11 May 2015	8:00 – 18:00
Tuesday,	12 May 2015	8:00 – 18:00
Wednesday,	13 May 2015	8:00 – 18:00
Thursday,	14 May 2015	8:00 – 18:00
Friday,	15 May 2015	9:00 – 13:00

WiFi

Throughout the exhibition free WiFi is available on-site. To log in please use the following data:

SSID: ISRSE36

Password: ISRSE36-berlin

How to get around

The Conference Center bcc

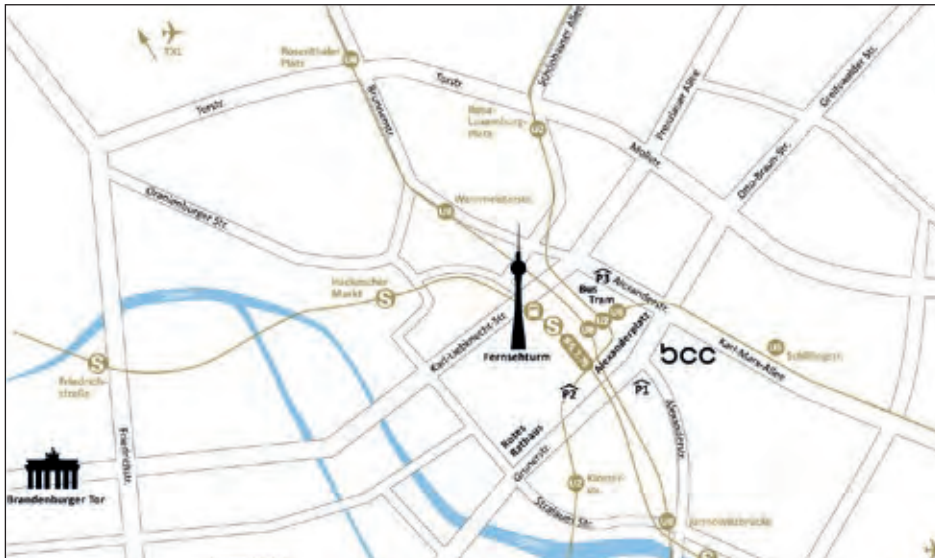


Address: bcc Berlin Congress Center – Alexanderstraße 11, 10178 Berlin.

The bcc is found in the immediate vicinity of the Fernsehturm (“TV Tower”) at Alexanderplatz, right in the center of Berlin. The location’s excellent public transport connections ensure an easy arrival and minimized commuting times. The nearest Underground and local train station is “Alexanderplatz”.

Detailed information to access the conference venue can be found at:

www.bcc-berlin.de/en/location-travel.



Information for Speakers

Speakers are requested to arrive at their session room to upload their presentation at least 30 minutes before the respective session begins, or at an earlier break. Speakers are asked to bring their presentation on USB stick and contact the technician in the session room as soon as possible to perform the upload of the presentation file.

Presentations should be in MS PowerPoint or Acrobat PDF, preferably in 16:9 format. Each session room is equipped with a computer/ video projector, a microphone, a lectern and a pointing device. The software installed on the computers includes: Windows 7, MS Office 2013 Professional (PowerPoint, Word), Adobe Acrobat Reader (current version), Internet Explorer and Mozilla Firefox (current version), Windows Media Player and VLC Player (current version). The media player is only available with standard codecs. Use of standard True Type fonts is suggested for PowerPoint presentations. In the case that a PPT contains a video or animation, please ensure that both files (ppt and video) are in the same folder.

As a baseline, presentations from personal laptops are not allowed, to ensure a smooth programme running and to minimise the transition between presentations. The possibility to present from PCs other than the session room PC is not foreseen.

Speakers are also asked to identify themselves as speaker to the session co-chairs, who should already be in the room in the break before the respective session, once the presentation has been uploaded successfully. The session chairs will introduce the speakers only with the title of the presentation, name and affiliation. Please check with the session chairs, that they have the correct information.

Speakers are asked to stay within the time given to your presentation (either 12, or 15 or 18 minutes in total). The session chairs are instructed to remind speakers on this timing and aim to finish the oral presentation part about 2 minutes earlier, in order to allow few questions. If speakers run over time, the session chairs may stop the presentation immediately and not allow further questions.

A Speakers Preparation Room (Room B04) is available for the authors. (See map Page 17). Hours of operations are as follows:

Monday,	11 May 2015	9:00 – 18:00
Tuesday,	12 May 2015	9:00 – 18:00
Wednesday,	13 May 2015	9:00 – 18:00
Thursday,	14 May 2015	9:00 – 18:00
Friday,	15 May 2015	9:00 – 18:00

All presentations will be deleted from the computers after the ISRSE-36.

Information for Poster Presentations

For each poster, one poster board in portrait format is reserved with a clear dimension of 118.5 cm x 146 cm (W x H). Material necessary for pinning the poster to the board is available on the poster boards or at the registration desk.

Posters will be on display in the Poster Area C02 on Level C, where also coffee breaks are organized.

Authors are requested to mount and remove their posters on the day of their poster session at the following times:

Mount: before 10:30.

Remove: 18:00.

Posters not removed by 19:00 will be disposed of.

Authors are invited to be stand-by close to their posters during all breaks. We specifically ask for poster attendance during the afternoon coffee break (15:30 – 16:00) and after the end of the last oral sessions of the day until poster removal time (17:30 – 18:00).

Sponsors and Exhibition

Platinum Sponsors:

- Deutsches Zentrum für Luft- und Raumfahrt (DLR)
- European Commission
- European Space Agency (ESA)

Gold Sponsors:

- EUMETSAT
- National Aeronautics and Space Administration (NASA)

Silver Sponsors:

- Airbus Defence and Space

Other Sponsors:

- T-SYSTEMS

Exhibitors:

- | | |
|---------------|--------------------------|
| – BlackBridge | – European Space Imaging |
| – Geosense | – Taylor & Francis |
| – MDA | – Decagon Devices |
| – Exelis | |

Exhibition

Starting from Monday at 12:30 a daily exhibition from Industry and Research Centres will be held up to Friday in the exhibition area (Level-B).

Social Events

Icebreaker Reception

An Icebreaker reception with formal opening of the exhibition will take place on the first symposium day from 18:00- 20:00 hrs in the exhibition area (B01) at the conference venue bcc. All Symposium participants are invited to join. You will have the opportunity to meet fellow participants, visit the exhibition and have a few drinks with your colleagues. Beverage and food is free for registered participants.

Symposium Dinner and guided Berlin City River Cruise

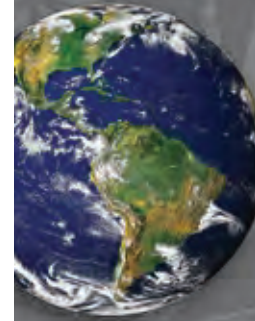
Wednesday, 13.05.2015, starts at 7pm at Märkisches Ufer, Costs: 80€

For the symposium banquet, we offer a 3 hours guided boat tour on the river Spree through the city center of Berlin. You will experience many important historic sites, while you pass the world famous museum island, the former Berlin wall and the government quarter. The boat will pass lock Mühlendamm Schleuse, Nikolai Quarter, Berlin Cathedral, Museum Island, Friedrichstraße, Reichstag, The Chancellor's office, Haus der Kulturen der Welt, Bellevue Palace – the home of the Federal President, and Schlossbrücke with a view of Palace Charlottenburg.



During your boat trip, you will enjoy a buffet dinner and drinks, while you get all information you need about Berlin from an English speaking guide. The landing place "Märkisches Ufer", where the cruise will start and end, is just two subway stations or a 15 minutes' walk away from the conference venue.

NASA Earth Science



*One Planet
Your Story
Our Mission*

National Aeronautics and
Space Administration



*Providing
New
Perspectives
of
Earth's
Environment*

**You're invited to join us at the NASA Hyperwall,
May 11-15, for daily Hyperwall presentations that will
cover a diverse range of Earth science topics.**

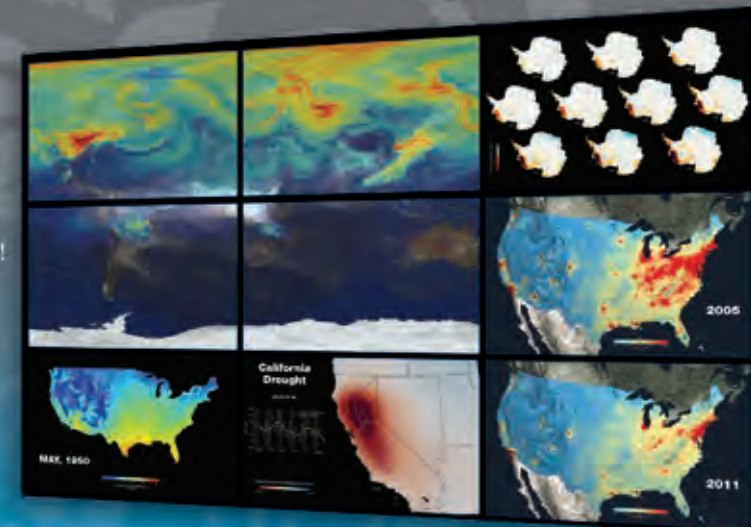
NASA Earth System Science conducts and sponsors research, collects new observations from space, develops technologies and extends science and technology education to learners of all ages. Working closely with our global partners, we enhance economic security and environmental stewardship, benefiting society in many tangible ways. NASA research seeks to answer fundamental science questions about the changes we see in climate, weather and natural hazards, and deliver sound science that helps decision-makers make informed decisions.

NASA's Hyperwall Science Stories

Storytelling like never before!

NASA's hyperwall is a sophisticated visualization tool used to display large datasets.

svs.gsfc.nasa.gov/hw



Technical Tours

Saturday, May 16, 09:00 – 15:30 hours

Three Technical Tours are offered, Costs 16€ per Tour

Tour 1: Visit of the German Aerospace Center (DLR) in Neustrelitz



© DLR, DLR Site Neustrelitz

Tour starts at 8:30am at bcc (via Shuttle Bus)

The Neustrelitz site of DLR is approximately 100km north of Berlin in the state of Mecklenburg-Vorpommern, and is the workplace of about 60 scientists, engineers and clerical staff.

Earth Observations and Navigation are its main focus. The site is a department of the German Remote-sensing Data Centre and features radio telescopes for data reception, data management systems and validation and test environments for remote-sensing satellites. You will get information about its daily work, e.g. about real-time processing and satellite data archiving.

Tour 2: Visit of the German Aerospace Center (DLR) in Berlin-Adlershof



© DLR, DLR Site Berlin-Adlershof

Tour starts at 9:00am at bcc (via public transport)

Berlin-Adlershof is one of Germany's largest science and technology parks. Alongside the DLR, numerous other aviation and aerospace businesses are located at Adlershof. Its history began in 1909 with Germany's first motorized flight. The Johannisthal airfield quickly became a meeting place for the daring pioneers of aviation and their flying machines. On this tour you will experience this unique period in history as well as today's scientific and technical achievements of Adlershof.

Tour 3: Visit of GFZ German Research Centre for Geosciences (Helmholtz Centre Potsdam) in Potsdam



© GFZ, GFZ Potsdam

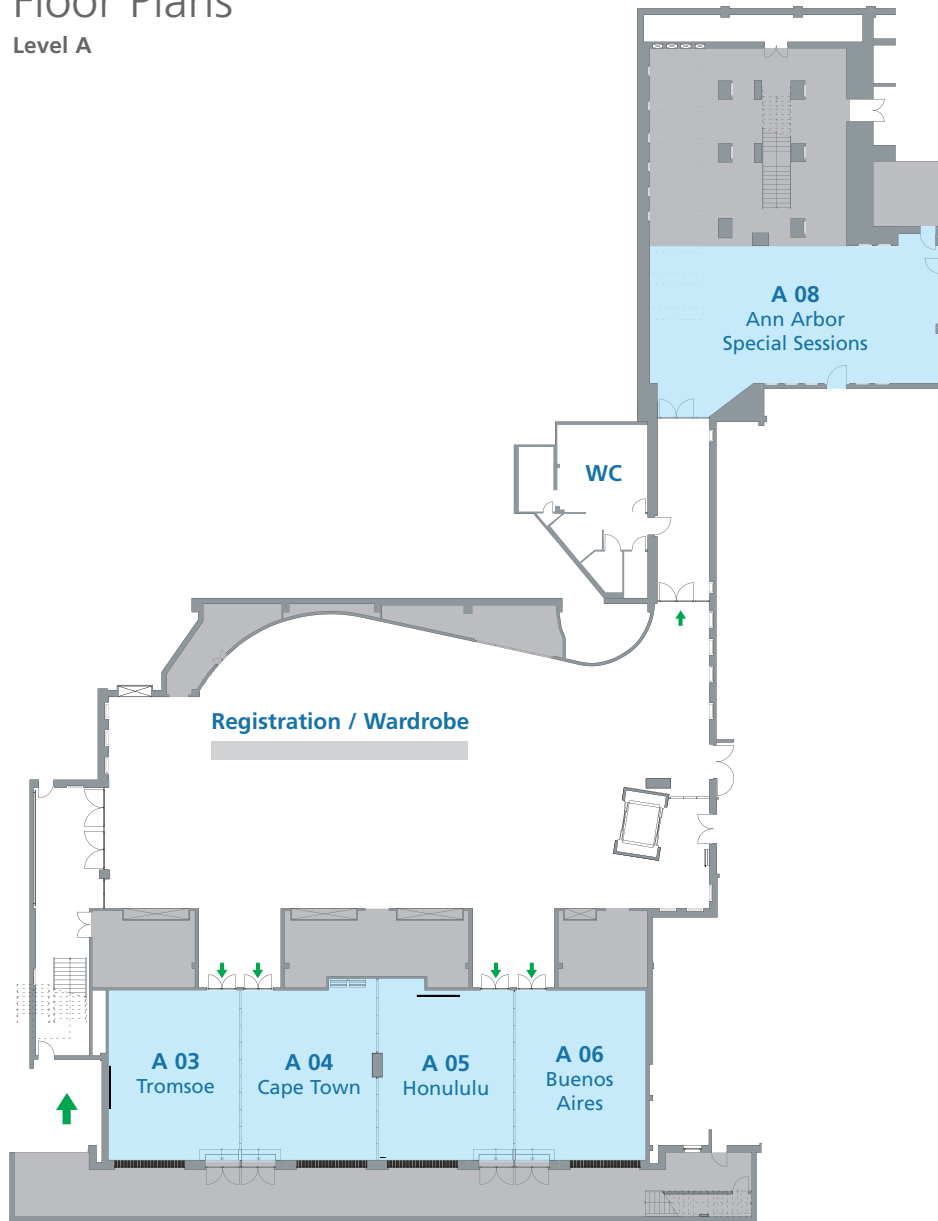
Tour starts at 9:00am at bcc (via Shuttle Bus)

Research at GFZ – Would you like to take a look behind the scenes at the GFZ? Then we shall be glad to welcome you. We offer visitors a presentation, telling you more about our current research.

The object of research of the GFZ is the Earth System – our planet, on and from which we live. We study the history of the Earth and its characteristics, as well as the processes which occur on its surface and within its interior.

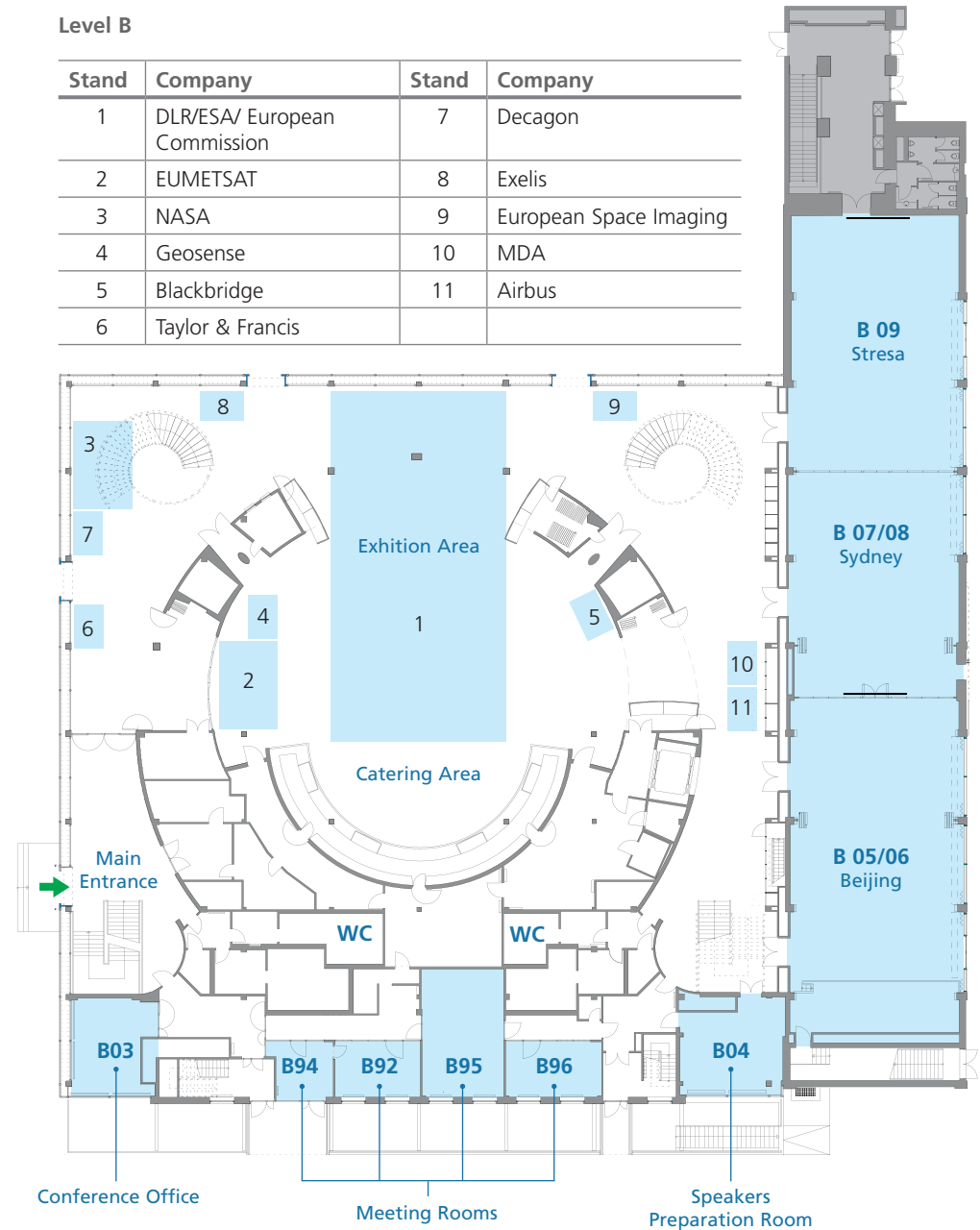
Floor Plans

Level A



Level B

Stand	Company	Stand	Company
1	DLR/ESA/ European Commission	7	Decagon
2	EUMETSAT	8	Exelis
3	NASA	9	European Space Imaging
4	Geosense	10	MDA
5	Blackbridge	11	Airbus
6	Taylor & Francis		



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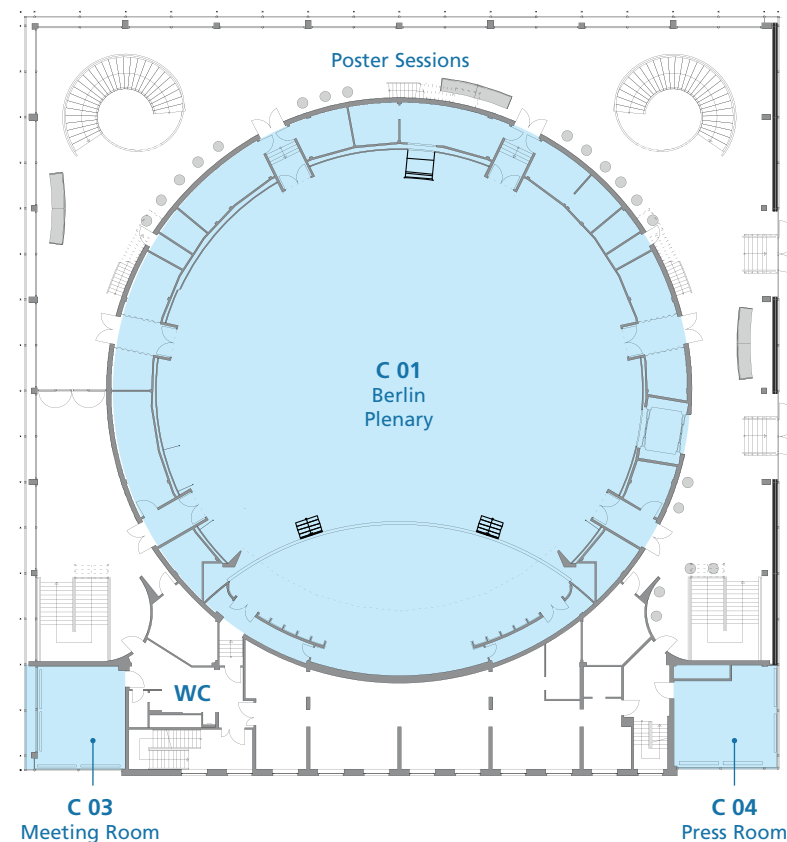


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- Providing real-time data, products and support services to National Weather Services and users worldwide
- Supporting the development of operational oceanography in synergy with operational meteorology, through the delivery of integrated marine data streams
- Monitoring atmospheric composition to support air quality forecasting
- Delivering Climate Data Records for use in climate research and climate services
- Enhancing benefits to users worldwide through cooperation with other satellite operators, in the framework of the WMO
- Contributing to major capacity building initiatives, particularly in Africa, through improved data access and training activities



Level C



Symposium Committees

The symposium is governed by international committees: A Technical Programme Committee composed of international experts from various domains of Earth observation and geographic information science is responsible for the ISRSE-36 programme and the selection of presentations and posters from the submitted abstracts. An Organizing Committee composed of local host representatives and international experts oversees all organizational aspects of the symposium.

Organizing Committee

Dr. Helmut Staudenrausch, DLR – Space Administration, Chairman
 Maike Gerads, DLR – Space Administration
 Elisabeth Mittelbach, DLR - Public Relations Manager for Space Administration
 Michael Müller, DLR - Public Relations Manager Events
 Irena Bido, DLR – Space Administration
 Gunter Schreier, DLR - Earth Observation Center
 Matthias Roesberg, CD Werbeagentur
 Thomas Lach, CD Werbeagentur
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 Jim Weber, ICRSE, University of Arizona
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 Paul Counet, EUMETSAT
 Winnie Humberson, NASA
 Per Erik Skrovseth, ICORSE

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 Zilvo Slebir, European Commission – Copernicus
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 Konrad Wessels, CSIR
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 Andreas Müller, DLR - Earth Observation Center
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 Klaus Schmidt, DLR – Space Administration
 Godela Roßner, DLR – Space Administration
 Peter Schaadt, DLR – Space Administration
 Christopher Conrad, University of Würzburg
 Martin Wegmann, University of Würzburg
 David Goodenough, University of Victoria, BC
 Hans Christian Graber, University of Miami
 Johnny Johannessen, NERSC

Imprint

Publisher: Deutsches Zentrum für Luft- und Raumfahrt (DLR), DLR.de

Print: MEINDERS & ELSTERMANN GmbH & Co. KG, Belm

Press date: April 2015

Layout: CD Werbeagentur GmbH, Troisdorf

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Programme Structure

Technical Programme

ISRSE-36 has called for papers on the following themes:

- Agriculture and Food Security [AGRI]
- Forests, Biodiversity and Terrestrial Ecosystems [BIOD]
- Atmosphere, Weather and Climate [ATMC]
- Natural Disasters Monitoring, Warning and Response [DISA]
- Energy and Geology [ENGY]
- Water Cycle [WACY]
- Marine and Coastal Environment, Resources and Dynamics [MARI]
- Polar and Cold Regions [POLA]
- Socioeconomic Issues including Health, Urbanization and Human Heritage [SOCL]
- Data and Information Systems and Spatial Data Infrastructures [DATA]
- Airborne and Innovative Remote Sensing Platforms and Techniques [SENS]
- National, Regional and International Programs including Education and Outreach [PROG]

Plenary Sessions

In addition to the technical programme, 5 dedicated plenary sessions are being held, intended to address more strategic issues in Remote Sensing of the Environment. Numerous high-ranking experts and leaders in Remote Sensing have already confirmed their participation and will ensure interesting insights and visionary discussions:

- The Perspectives of Space Agencies [PLEN-1]
- Global Earth Observations for Leveraging the Essential Climate Variables [PLEN-2]
- The Copernicus Era [PLEN-3]
- Global Trends and Challenges in Remote Sensing Technology [PLEN-4]
- Perspectives on the Future of Global Earth Observation [PLEN-5]

Special Events

A couple of Special Events will complement the symposium programme. Various special sessions, workshops and other meetings related to Remote Sensing of the environment are being planned:

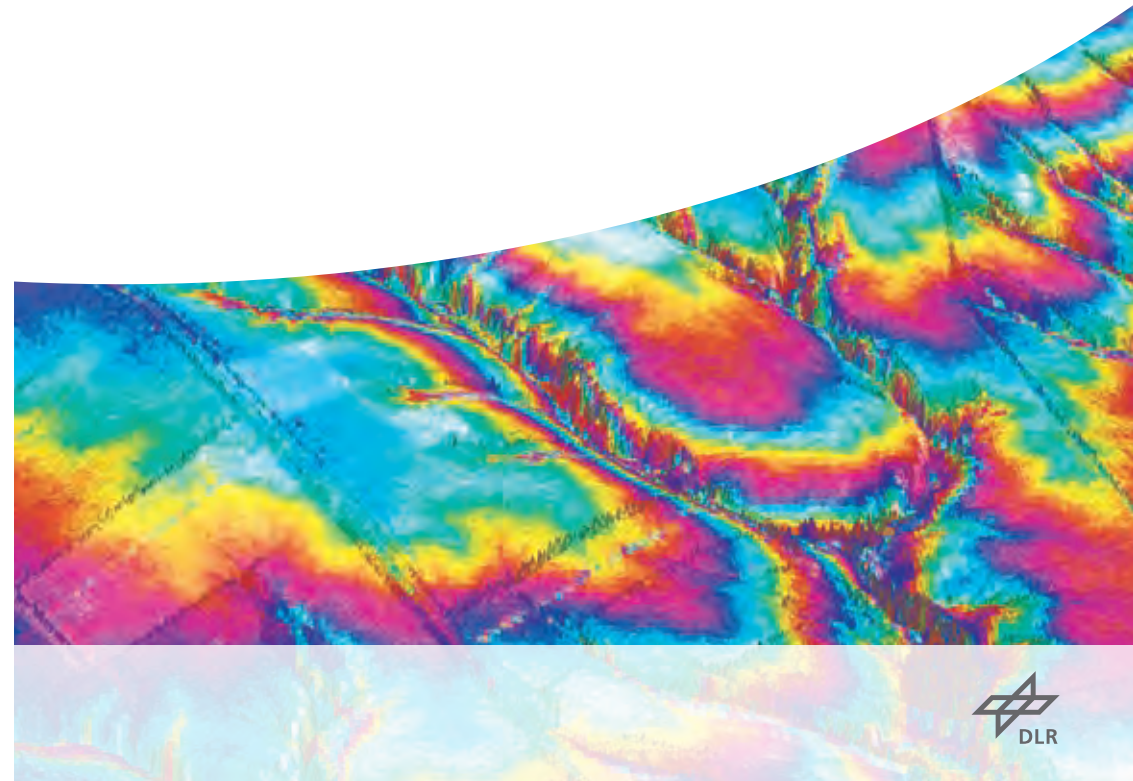
- Special Keynote: “Animals as intelligent global sensing network” [SPEC-5]
- Special Session: “Group on Earth Observations (GEO): The next Decade” [SPEC-1]
- Special Session: “EO and Africa: A joint Europe – Africa Perspective” [SPEC-2]
- ABCC Program: Earth Observation for Global Change [SPEC-3]
- Special Session: “Earth Observations Infrastructure for Satellite Data Access and Dissemination in Africa” [SPEC-4]
- Author Workshop: “How to publish your Research in a Top Journal” [SPEC-6]
- Special Session: “Space-based Maritime Situational Awareness” [SPEC-7]

Please check www.isrse36.org/side-events for more information.



**The 36th International Symposium
on Remote Sensing of Environment**
11-15 May 2015, Berlin, Germany

Oral Programme



Monday, 11 May 2015

Plenary & Technical Sessions

Time	Kind of Session	C01 Berlin	B05-06 Beijing	B07-08 Sydney	B09 Stresa	A03 Tromsø	A04 Cape Town	A05 Honolulu	A06 Buenos Aires
9:00	Opening Ceremony	OPEN							
10:30	Opening Plenary	PLEN-1							
12:30	Lunch								
14:00	Technical	PROG-6	BIOD-1		DATA-1			ATMC-1	
16:00	Technical	PROG-6	BIOD-1		DATA-1	POLA-2	AGRI-1	ATMC-3	MARI-2

Special Sessions

Time	C01 Berlin
17:30	SPEC-5

Monday, 11 May 2015

Opening Ceremony

Monday, 11 May 2015 09:00–09:55

Lecture Room: Berlin (C01)

09:00–09:10

Welcome from the Federal Government, Wolfgang Scheremet, Director General Industrial Policy, Federal Ministry for Economic Affairs and Energy

09:10–09:25

Welcome from the Host, Jan Wörner, DLR Chairman of the Executive Board

09:25–09:35

Welcome from the European Commission, Rudolf Strohmeier, Deputy Director General Research and Innovation, EC

09:35–09:45

Welcome from the European Space Agency, Volker Liebig, ESA Director Earth Observations

09:45–09:50

Welcome from the Co-Host ICRSE, Charles Hutchinson

09:50–09:55

Welcome from the International Society for Photogrammetry and Remote Sensing, Christian Heipke

Plenary Session

PLEN-1 The Perspectives of Space Agencies

Monday, 11 May 2015 10:30–12:30

Lecture Room: Berlin (C01)

10:30–10:45

Volker Liebig, ESA

10:45–11:00

Michael Freilich, NASA

11:00–11:15

Gerd Gruppe, DLR

11:15–11:30

Chu Ishida, JAXA

11:30–11:45

Alain Ratier, EUMETSAT

11:45–12:00

Stephen Volz, NOAA

12:00–12:15

Guo Huadong, RADI

12:15–12:30

Panel Discussion

Special Event

SPEC-5 Special Keynote

Monday, 11 May 2015 17:30–18:00

Lecture Room: Berlin (C01)

Animals as intelligent global sensing network

Prof. Martin Wikelski, Max-Planck-Institute for Ornithology and University of Konstanz

AGRI – Agriculture and food security

AGRI-1 High resolution multi-temporal crop mapping and agricultural monitoring

Monday, 11 May 2015 16:00–17:30

Lecture Room: Cape Town (A04)

16:00–16:18: ISRSE36-241

Regional scale crop mapping using multi-temporal satellite imagery
Kussul N., Skakun S., Shelestov A., Lavreniuk M., Yailymov B., Kussul O.

16:18–16:36: ISRSE36-604

Combination of Satellite and Ancillary Data for Crop Classification in West Africa
Forkuor G., Barry B., Conrad C., Thiel M

16:36–16:54: ISRSE36-438

Satellite image simulations for model-supervised, dynamic retrieval of crop type and land use intensity
Bach H., Klug P., Ruf T., Migdall S., Schlenz F., Hank T., Mauser W.

16:54–17:12: ISRSE36-603

Quantification of cropping pattern and productivity of agro-ecosystems in Central Asia
Biradar C., Low F., Zhang G., Xiao X., Dong J., Filemann E., Patil P., Singh M., Tulaymat F., Omari J., Thomas R.

17:12–17:30: ISRSE36-320

Indicator-based soil moisture monitoring of agricultural riparian sites in North-East Germany with a multi-sensoral time-series
Förster M., Frick A., Batsch K., Klinke R., Spengler D., Schmidt T., Kleinschmit B.

ATMC – Atmosphere, weather and climate

ATMC-1 Land Atmosphere Interactions

Lecture Room: Honolulu (A05)

Monday, 11 May 2015 14:00–15:12

14:00–14:18: ISRSE36-107

NDVI dynamics of the taiga zone in connection with modern climate changes
Tsepelev V., Bobkov A., Panidi E.,

Torlopova N.

14:18–14:36: ISRSE36-126

Responses of vegetation growth to climate change in china
Li Z., Zhou T.

14:36–14:54: ISRSE36-359

Evaluations of discrepancies in the anthropogenic NOx emission trends across Europe: Synergistic use of LOTOS-EUROS and remote sensing NO2 tropospheric columns
Curier R.L., Segers A., Kranenburg R., Timmermans R., Eskes H.

14:54–15:12: ISRSE36-619

The Influence of the Time Equation on Remote Sensing Data Interpretation
Fichtelmann B., Borg E., Schwarz E.

ATMC-3 Climate and Atmosphere

Lecture Room: Honolulu (A05)

Monday, 11 May 2015 16:00–17:30

16:00–16:18: ISRSE36-90

Essential climate variables to support climate change mitigation
Herold M., Mora B., Richter C., Holterhof J., Seifert F. M.

16:18–16:36: ISRSE36-417

A Rapid Cloud Mask Algorithm for Suomi NPP VIIRS Imagery EDRs
Piper M., Bahr T.

16:36–16:54: ISRSE36-431

An IDL-based weather forecast system for aviation using real-time data from remote sensing instruments, nowcasting tools and numerical models
Forster C., Meininger M., Stich D., Tafferner A.

16:54–17:12: ISRSE36-449

The stratospheric warming 2012 / 2013: Influences on weather extremes and large scale dynamics in stratosphere and mesosphere
Küchelbacher L., Bittner M., Wüst S.

17:12–17:30: ISRSE36-701

Retrieval of Ozone Total Columns over Evora-Portugal Using Remote Sensing Instruments During 2007-2011
Domingues A.F., Bortoli D., Silva A.M., Kulkarni P., Mendes R.

BIOD – Forests, biodiversity and terrestrial ecosystems

BIOD-1 Trends in operational land cover mapping

Lecture Room: Beijing (B05-06)

Monday, 11 May 2015 14:00–17:30

14:00–14:18: ISRSE36-434

Multi-year global land cover mapping at 300 m and characterization for climate modelling: achievements of the Land Cover component of the ESA Climate Change Initiative
Bontemps S., Boettcher M., Brockmann C., Kirches G., Lamarche C., Radoux J., Santoro M., Vanbogaert E., Wegmüller U., Herold M., Achard F., Ramoino F., Arino O., Defourny P.

14:18–14:36: ISRSE36-625

History of global land cover mapping and monitoring using earth observation data
Hansen M., Potapov P., Townshend J., Justice C.

14:36–14:54: ISRSE36-657

Improving global land cover via crowd-sourcing and product integration
Fritz S., See L., SCHEPASCHENKO D., Lesiv M., Bun A., Perger C., Sturn T., McCallum I.

14:54–15:12: ISRSE36-186

The United States National Land Cover Database, Delivering Operational Land Cover Data for almost 20 years- Lessons Learned and Future Plans
Homer C.

15:12–15:30: ISRSE36-218

Implementation of an operational land cover classification system to support Mexican activity data reporting
Wehrmann T., Gebhardt S., Kopeinig R., Schmidt M.

15:30 Coffee Break

16:00–16:18: ISRSE36-579

Assessment of Large Scale Land Cover Change Classifications and Drivers of Deforestation in Indonesia
Wijaya A., Sugardiman R.A., Budiharto B., Purwanto J., Tosiani A., Murdiyarso D., Verchot L.V.

16:18–16:36: ISRSE36-528

Utilization of Pisar L-2 Data for Land Cover Classification in Forest Area Using Pixel-Based

and Object-Based Methods
Trisakti B., Sutanto A., Noviar H., Kustiyo -

16:36–16:54: ISRSE36-734

Rapid Update of Land cover Using Change Detection and Supervised Machine Learning in South Africa
Wessels K., van den Bergh F., Steenkamp K., Swanepoel D., McAlister B., Salmon B., Roy D., Kovalsky V.

16:54–17:12: ISRSE36-155

Comparative accuracy assessment of global land cover datasets using existing reference data
Tsendbazar N.E., de Bruin S, Mora B, Herold M

17:12–17:30: ISRSE36-173

Copernicus operational mapping of land characteristics on a continental scale. Status, lessons-learned and future development
Langanke T., Dufourmont H., Büttner G., Sousa A.

DATA – Data and information systems and spatial data infrastructure

DATA-1 Geospatial information analysis in Digital Earth

Monday, 11 May 2015 14:00–17:15

Lecture Room: Stresa (B09)

14:00–14:18: ISRSE36-291

Big Data breaking barriers - first steps on a long trail
Schade S.

14:18–14:36: ISRSE36-110

Multiresolution representation of oblique airborne photogrammetry-based 3D city models in Digital Earth
Liang J., Gong J., Dai Y., Liu J.

14:36–14:54: ISRSE36-138

Evaluation of Future Internet Technologies for Processing and Distribution of Satellite Imagery
Becedas J., Pérez R., González G., Álvarez J, García F., Maldonado F., Sucari A., García J.

14:54–15:12: ISRSE36-317

Creating and maintaining a living digital inventory of our planet
Marchisio G., Barrington L., Ricklin N., Tabb M., Johnston C., Gueguen L., Ouzounis G., Tusk C., Koperski K.

15:12–15:30: ISRSE36-495

Asterix and Obelix: How Standards Reunite Data and Metadata

Baumann P.

15:30 Coffee Break**16:00–16:18: ISRSE36-722**

iGlobe - Next Generation Framework for Handling Geospatial Data

Chandola V.

16:18–16:36: ISRSE36-394

Automated Earth Observation time-series monitoring with OGC-compliant web services

Eberle J., Hüttich C., Schmullius C.

16:36–16:54: ISRSE36-446

Data Mining and Knowledge Discovery tools for exploiting big Earth-Observation data

Espinoza Molina D., Datcu M

16:54–17:12: ISRSE36-440

Heterogeneous access and processing of EO-Data on a Cloud based Infrastructure delivering operational Products

Niggemann F., Bach H., Appel F., de la Mar J., Schirpke B., Dütting K., Rücker G., Leimbach D.

MARI – Marine and coastal environment, resources and dynamics

MARI-2 Sea state monitoring

Monday, 11 May 2015 16:00–17:30

Lecture Room: Buenos Aires (A06)

16:00–16:18: ISRSE36-134

Wavemill: a new mission for high-resolution mapping of total ocean surface current vectors

Martin A., Gommenginger C., Chapron B., Marquez J., Doody S., Burbidge G., Palmer K., Dobke B., Cotton D.

16:18–16:36: ISRSE36-159

First Analysis of Along-Track InSAR-Derived Current Fields From the Summer 2014 TanDEM-X Short Baseline Opportunity

Romeiser R.

16:36–16:54: ISRSE36-181

Satellite-Based Radar Measurements for Validation of High-Resolution Sea State Forecast Models in German Bight

Pleskachevsky A., Lehner S., Hoffmann P.,

Kieser J., Bruns T., Lindenthal A., Janssen F., Behrens A.

16:54–17:12: ISRSE36-293

Quantifying variability of the surface currents in the Norwegian Sea: Estimation based on different gravity models and mean sea surface datasets

P. Raj R., A. Johannessen J., Ø.Nilsen J, B. Andersen O

17:12–17:30: ISRSE36-405

WIMO - Laser scanning for monitoring the German Wadden Sea

Schmidt A., Heipke C.

POLA – Polar and Cold Regions

POLA-2 Monitoring of polar oceans, glaciers, snow and ice

Monday, 11 May 2015 16:00–17:30

Lecture Room: Tromsø (A03)

16:00–16:18: ISRSE36-65

Spaceborne quantitative assessment of primary production variations in the Arctic Ocean over the previous decade

Pozdnyakov D.V., Petrenko D.

16:18–16:36: ISRSE36-261

Assessment of time compositing vs near instantaneous for spectral & broadband BRF/BRDF/albedo retrieval for Arctic sea-ice

Muller J.-P., Kharbouche S., Danne O., Mueller K., Gatebe C., Roman M.

16:36–16:54: ISRSE36-366

Characterization of ice cover extent from MODIS imagery during different winter scenarios in the Gulf of Riga, Baltic Sea

Raag L.

16:54–17:12: ISRSE36-411

Microwave remote sensing of Antarctic firm properties

Linow S., Dierking W., Hörhold M., Rack W.

17:12–17:30: ISRSE36-425

Elevation change of the Inylchek Glacier (Central Asia) analysed by TanDEM-X data

Neelmeijer J., Motagh M., Guanter L.

PROG – National, regional and international programs including education and outreach

PROG-6 Space Agency outlook

Monday, 11 May 2015 14:00–17:30

Lecture Room: Berlin (C01)

14:00–14:15: ISRSE36-626

COPERNICUS - The European Union Earth Observation Programme

Koch A. C.

14:15–14:30: ISRSE36-738

An update on the NASA Earth Observation Programme

Freilich M. H.

14:30–14:45: ISRSE36-109

The Cnes Earth Observation programme

Utre-Guerard P.

14:45–15:00: ISRSE36-275

The German Earth Observation Program

Lüttenberg H.-P.

15:00–15:15: ISRSE36-392

The Canadian Earth Observation Program: On the move from R&D to Operations

Laliberté E.

15:15–15:30: ISRSE36-750

SANSA Earth Observation: Current Activities and Outlook into the Future

Olwoch J., Mangara P., Salooje I.

15:30 Coffee Break**16:00–16:18: ISRSE36-349**

ESA's Earth Observation Programme

Liebig V., Aschbacher J.

16:18–16:36: ISRSE36-251

Future Programmes of EUMETSAT for Weather, Climate and Environmental Monitoring

Kaiser C.

16:36–16:54: ISRSE36-703

NOAA Outlook: Development of Next-Generation Geostationary and Polar Operational Environmental Satellites

Volz S., Smith D.B.

16:54–17:12: ISRSE36-723

JAXA's Earth Observation Program

Yamamoto S., Ishida C.

17:12–17:30: ISRSE36-737

The Chinese Earth Observations Programme
Guo H.

Tuesday, 12 May 2015

Plenary & Technical Sessions

Time	Kind of Session	C01 Berlin	B05-06 Beijing	B07-08 Sydney	B09 Stresa	A03 Tromsø	A04 Cape Town	A05 Honolulu	A06 Buenos Aires
9:00	Plenary	PLEN-2							
10:30	Coffee Break								
11:00	Technical	PROG-1	BIOD-2	BIOD-6	DISA-2	SOCI-2	DATA-2	SENS-6	MARI-2
12:30	Lunch								
14:00	Technical	SENS-5	BIOD-2	BIOD-6	DISA-1	SOCI-2	AGRI-2	SENS-7	MARI-3
15:30	Coffee Break								
16:00	Technical	PROG-2	BIOD-3	SENS-8	DISA-1	POLA-3	AGRI-3	SENS-2	MARI-3

Special Sessions

Time	A08 Ann Arbor
12:30	SPEC-1

Tuesday, 12 May 2015

Plenary Session

PLEN-2 Global Earth Observations for Leveraging the Essential Climate Variables

Tuesday, 12 May 2015 09:00–10:30

Lecture Room: Berlin (C01)

09:00–09:05
Introduction, Barbara Ryan, GEO

09:05–09:10
Introduction, Carolin Richter, GCOS

09:10–09:25
The Global Energy and Water Cycle, Jörg Schulz, EUMETSAT

09:25–09:40
The Global Carbon Cycle, Han Dolman, VU Amsterdam

09:40–09:55
Essential Climate Variables and the IPCC, Thomas Stocker, IPCC Co-Chair WG-I

09:55–10:10
Global Organizations and Programmes implementing the Essential Climate Variables, Stephen Briggs, ESA

Special Event

SPEC-1 Group on Earth Observations (GEO) and GEOSS: The next Decade

Tuesday, 12 May 2015 12:30–14:00

Lecture Room: Ann Arbor (A08)

12:30–12:50
GEO's post-2015 Strategic Plan: A strategy to serve society's needs, Barbara Ryan, Director GEO Secretariat

12:50–13:20
Keynote: "A nexus approach to global challenges and the role of Earth observations". Wolfram Mauser, LMU Munich

13:20–13:50
Discussion

13:50–14:00
Summary and Closure

AGRI – Agriculture and food security

AGRI-2 Mapping cropland productivity at the global scale

Tuesday, 12 May 2015 14:00–15:30

Lecture Room: Cape Town (A04)

14:00–14:18: ISRSE36-58

New method to retrieve vegetation photosynthetic capacity from solar-induced fluorescence for cropland GPP modeling
Zhang Y., Guanter L., Berry J., Joiner J., van der Tol C., Huete A.

14:18–14:36: ISRSE36-331

Operational 333m Biophysical Products of the E COPERNICUS global land service for Agriculture monitoring

Lacaze R., Smets B., Baret F., Weiss M., Ramon D., Montersleet B., Wandrebeck L., Calvet J.-C., Roujean J.-L., Camacho F.

14:36–14:54: ISRSE36-333

Global monitoring of agricultural productivity with spaceborne measurements of sun-induced chlorophyll fluorescence

Guanter L., Zhang Y., Jung M., Joiner J., Voigt M., Berry J. A., Frankenberg C., Huete A., Zarco-Tejada P., Lee J. E., Moran M. S., Ponce-Campos G., Beer C., Camps-Valls G., Buchmann N., Gianelle D., Klumpp K., Cescatti A., Baker J. M., Griffis T. J.

14:54–15:12: ISRSE36-346

Evaluations on the potential productivity of winter wheat based on agro-ecological zone in the world

Wang H.

15:12–15:30: ISRSE36-397

Design and feasibility study of a global operational crop yield forecasting system: an exercise based on the EC GLOBCAST project
Baruth B., Lopez R., Cerrani I., Duveiller G., El Aydam M., Gallego J., Genovese G., Segui L., Willems E.

AGRI-3 Managing land degradation and water resources in agricultural areas

Tuesday, 12 May 2015 16:00–17:30

Lecture Room: Cape Town (A04)

16:00–16:18: ISRSE36-325

The Application of Modified Normalized

Difference Water Index (MNDWI) by Leaf Area Index in the Retrieval of Regional Drought Monitoring

Zhang H.-w., Chen H.-I.

16:18–16:36: ISRSE36-339

Inventory of potential Ecological Focus Areas (EFA) in agricultural landscapes in the context of the Common Agricultural Policy (CAP) Reform

Englhart S., Stängel M., Franke J., **Kroll A.**, Golla B.

16:36–16:54: ISRSE36-371

Drought and food security monitoring using space-derived phenology
Meroni M., Rembold F., Kaytakire F., Urbano F., **Schucknecht A.**, Leo O.

16:54–17:12: ISRSE36-407

First results from the LaVaCCA project: Assessing land value changes and developing a discussion support tool for improved land use planning in the irrigated lowlands of Central Asia
Löv F., Fliemann E., **Conrad C.**, Dukhovny V., Muratova N., Ibrakhimov M., Lamers J.P.A.

17:12–17:30: ISRSE36-743

Crop pattern and crop water requirements of winter crops as affected by irrigation improvement using remote sensing and GIS techniques

Belal A.A., Aboelsoud H.M., El-Nagar A., El-Hadeidy S.M., Abo El Atta A.M.

BIOD – Forests, biodiversity and terrestrial ecosystems

BIOD-2 National to global-scale forest monitoring with Landsat data

Tuesday, 12 May 2015 11:00–15:30

Lecture Room: Beijing (B05-06)

11:00–11:15: ISRSE36-207

Mapping Mexico's forest at very high resolution
Schmidt M., Wehrmann T., Gebhardt S., Ornelas J.L., Victoria A., Rodriguez R., Rhodes A., Serrano E., Argumendo J.

11:15–11:30: ISRSE36-129

National Scale Monitoring Reporting and Verification of Deforestation and Forest Degradation in Guyana
BHOLANATH P., **CORT K.**

11:30–11:45: ISRSE36-386

Forest monitoring at continental and regional scale with optical sensors - some results from Australia

Caccetta P., Chia J., Devereux D., Furby S., Reddy S., Wallace J., Wu X., Sun C.

11:45–12:00: ISRSE36-665

Monitoring the forests of the Democratic Republic of Congo using Landsat data

Lola Amani P., Mane L., Potapov P., Turubanova S., Hansen M.

12:00–12:15: ISRSE36-323

Advancing Indonesian Forest Resource monitoring using multi-source remote sensing data

Margono B.

12:15 Lunch Break

14:00–15:30

Chairperson(s): Matt Hansen, Martin Wegmann

14:00–14:15: ISRSE36-343

Nation-to-global scale forest cover change monitoring using the Landsat data archive

Potapov P., Hansen M.C., Turubanova S., Tyukavina A., Krylov A., Talero Y., Wang L.

14:15–14:30: ISRSE36-592

Forest and Forest Change Mapping with C- and L-band SAR in Liwale, Tanzania

Haarpaintner J., Davids C., Hindberg H., Zahabu E., Malimbwi R.E.

14:30–14:45: ISRSE36-480

A Framework for Monitoring Net Changes in Tropical Forest Cover Using Landsat Time Series

DeVries B., Decuyper M., Verbesselt J., Herold M.

14:45–15:00: ISRSE36-720

Ensemble-based Landscape Change Maps for the United States

Healey S., Cohen W., Yang Z., Brooks E., Hansen M., Hernandez A., Huang C., Hughes J., Kennedy R., Loveland T., Megown K., Moisen G., Schroeder T., Schwind B., Stehman S., Steinwand J., Vogelmann J., Woodcock C., Yang L., Zhu Z.

15:00–15:15: ISRSE36-391

Annual Forest Monitoring as part of Indonesia's National Carbon Accounting System

Kustiyo K., Roswintarti O., Tjahjaningsih A., Dewanti R., Furby S., Wallace J.

15:15–15:30: ISRSE36-739

Fusing Landsat NDVI and PALSAR backscatter time-series data for detecting deforestation in the tropics

Reiche J., Verbesselt J., Herold M., Hoekman D.

BIOD-3 Forests Mapping and Monitoring

Tuesday, 12 May 2015 16:00–17:30

Lecture Room: Beijing (B05-06)

16:00–16:18: ISRSE36-76

Detecting and Monitoring Deforestation and Forest Degradation

Muchoney D.M., **Hamann S.**

16:18–16:36: ISRSE36-141

Potential of WorldDEM to estimate forest canopy height and aboveground biomass in a tropical peat swamp forest

Schlund M., von Poncet F., Kuntz S., Kahabka H.

16:36–16:54: ISRSE36-208

Ground, stems and foliage: Forest above-ground biomass mapping from combined Synthetic Aperture Radar and Multispectral Imagery

Balzter H., Rodriguez-Veiga P., Wheeler J., Tansey K.J., Stelmaszczuk-Gorska M., Schmillius C.

16:54–17:12: ISRSE36-347

Comparison of interferometric and stereo-radargrammetric 3D metrics in mapping of forest resources

Karila K., Karjalainen M., Yu X., Vastaranta M., Holopainen M., Hyypä J.

17:12–17:30: ISRSE36-496

Forest cover mapping in Central Asia using multi-resolution remote sensing imagery
Yin H., Jakob A., Martius C., Khamzina A.

BIOD-6 Time Series Analyses revealing Land Surface Dynamics

Tuesday, 12 May 2015 11:00–15:30

Lecture Room: Sydney (B07-08)

11:00–11:15: ISRSE36-740

Time series analysis: Potentials and challenges exploiting optical satellite data for Land System Science

Hostert P., Baumann M., Griffiths P.,

Kuemmerle T., Kuenzer C., van der Linden S., Müller H., Pflugmacher D., Rufin P., Senf C.

11:15–11:30: ISRSE36-546

Response of riparian vegetation across Australia's largest river basin to inter and intra-annual flooding: dynamics quantified from time series of Landsat and MODIS data

Broich M., Tulbure M.G., Kingsford R., Lucas R., Keith D.

11:30–11:45: ISRSE36-610

New methods for time series processing of image data in TIMESAT

Eklundh L., Cai Z, jönsson P

11:45–12:00: ISRSE36-4

Spatial and temporal patterns of tree cover dynamics in the Mekong basin between 2001 and 2011

Leinenkugel P., Oppelt N., Kuenzer C.

12:00–12:15: ISRSE36-80

Mapping of ecosystem functioning change from global scale earth observation based trends in total and recurrent vegetation

Fensholt R., Horion S., Tagesson T.

12:15–12:30: ISRSE36-375

Estimation of grassland use intensities based on high spatial resolution LAI time series

Asam S., Klein D., Dech S.

12:30 Lunch Break

14:00–14:15: ISRSE36-6

Long-term Soil Moisture Time Series Analyses based on Active Microwave Backscatter Measurements

Wagner W., Reimer C., Bauer-Marschallinger B., Enekel M., Hahn S., Melzer T., Naeimi V., Paulik C., Dorigo W.

14:15–14:30: ISRSE36-71

Global SnowPack - A set of Snow Cover Parameters derived from time series of daily snow cover data made available on a global scale

Dietz A., Kuenzer C., Dech S.

14:30–14:45: ISRSE36-687

Global Waterpack - Timeseries Analyses to assess spatio-temporal Variability of Inland Water Bodies

Klein I., Dietz A., Gessner U., Kuenzer C., Dech S.

14:45–15:00: ISRSE36-553

Soil moisture dynamic in Central Asia and Xinjiang province of China over 30 years from microwave remote sensing

LI X.

15:00–15:15: ISRSE36-9

AVHRR re-processing over Europe and North Africa

Frey C., Dietz A.J., Bachmann M., Bernhard E.M., Ruppert T., Kuenzer C., Mueller A., Dech S.

15:15–15:30: ISRSE36-674

DUE GlobBiomass - Estimates of Biomass on a Global Scale

Schmullius C. and the C. Schmullius Team

DATA – Data and information systems and spatial data infrastructure

DATA-2 Remote sensing ontology and semantics

Tuesday, 12 May 2015 11:00–12:30

Lecture Room: Cape Town (A04)

11:00–11:18: ISRSE36-718

Land Use and Land Cover Semantics: Principles, Best Practices and Prospects

Ahlqvist K.O., **Bock M.**

11:18–11:36: ISRSE36-342

The EAGLE concept - A data model for future land monitoring

Arnold S., Soukup T., Bock M., Kosztra B., Smith G., Valcarcel-Sanz N., Hazeu G.

11:36–11:54: ISRSE36-584

Application of the EAGLE concept for parameterized data collection on habitats

Kosztra B., Arnold S., Bock M., Banko G., Smith G., Hazeu G., Valcarcel N.

11:54–12:12: ISRSE36-504

Semantic-based, multi-source classification of Nature Conservation areas in Rhineland-Palatinate using conceptual modelling in combination with data mining methodologies

Nieland S., Tintrup G., Moran N., Kleinschmit B.

12:12–12:30: ISRSE36-649

Formal ontologies for extracting information from high resolution satellite imagery

Belgiu M.

DISA – Natural disasters monitoring, warning and response

DISA-1 International initiatives for Earth Observation-based Disaster and Risk Management

Tuesday, 12 May 2015 14:00–17:30

Lecture Room: Stresa (B09)

14:00–14:15: ISRSE36-152

The Geohazard Supersites and Natural Laboratories - GSNL Initiative 2.0: Rapid Uptake of New Science in Disaster Risk Management

Salvi S.

14:15–14:30: ISRSE36-563

WCDRR and the Committee on Earth Observation activities on disasters

Petiteville I., Ishida C., Danzeglocke J., Eddy A., Gaetani F., Frye S., Kuligowski B., Zoffoli S., Poland M., Jones B.

14:30–14:45: ISRSE36-278

Reducing Vulnerability from Latin American Volcanoes Through Enhanced Monitoring Efforts.

Biggs J., Delgado F, Arnold D, Ebmeier S, Pritchard M

14:45–15:00: ISRSE36-721

The CEOS Recovery Observatory Pilot

Hosford S., Giros A., Proy C., Eddy A., Petiteville I., Ishida C., Gaetani F., Frye S., Zoffoli S., Danzeglocke J.

15:00–15:15: ISRSE36-175

Bridging the science-practice gap: UN-SPIDER's approach to recommended practices for disaster risk management

Villagrán de León J.C., Post J., Hecheltjen A., **St-Pierre L.**

15:15–15:30: ISRSE36-87

Capacity Building for Disaster Risk Reduction in Developing Countries CAS-TWAS Perspectives

Chen F.

15:30 Coffee Break

16:00–16:15: ISRSE36-276

Towards a Global Wildfire Information System (GWIS)

San-Miguel-Ayanz J., Gaetani F., Vadrevu K., Justice C.

16:15–16:30: ISRSE36-264

The International Charter 'Space and major Disasters' - an international initiative for disaster response based on space-based information

Danzeglocke J., Jones B., Tinel C., Lobo E., Srinivasa Rao G.

16:30–16:45: ISRSE36-357

Copernicus Emergency Management Service - Mapping: Completing three years of initial operations

Brogli M.

16:45–17:00: ISRSE36-240

Scope and Activities of the International Working Group on Satellite based Emergency Mapping - IWG-SEM

Voigt S., Schneiderhan T.

17:00–17:15: ISRSE36-376

Global Human Settlement Analysis for Disaster Risk Reduction

PESARESI M., Ehrlich D., Ferri S., Florczyk A., Freire S., Haag F., Halkia M., Julea A.M., Kemper T., Soille P.

17:15–17:30

Discussion

DISA-2 Enhancing the resiliency of critical infrastructure to environmental change and uncertainty

Tuesday, 12 May 2015 11:00–12:30

Lecture Room: Stresa (B09)

11:00–11:18: ISRSE36-300

Comprehensive Framework for Addressing Civil Critical Infrastructure Resilience

TRALLI D.

11:18–11:36: ISRSE36-250

From Risk to Resilience: Analytical Methodology and Applications

Linkov I., Fox-Lent C

11:36–11:54: ISRSE36-188

Utility of Thermal-Infrared Spectral Imaging for Assessment of Environmental Hazards in Post-Disaster Scenarios: Towards Civil Security and Resilience

Tratt D.M., Buckland K.N., Johnson P.D., Scherer G.J.

11:54–12:12: ISRSE36-227

Supply chain resilience and civil critical infrastructure systems

Zobel C.

12:12–12:30: ISRSE36-216

Environmental Change and Space Infrastructure Resilience

Wickman L., Clayson M.

MARI – Marine and coastal environment, resources and dynamics

MARI-2 Sea state monitoring

Tuesday, 12 May 2015 11:00–12:30

Lecture Room: Buenos Aires (A06)

11:00–11:18: ISRSE36-408

Estimation of wave and wind field parameters from TerraSAR-X imagery in the Baltic Sea

Rikka S., Uiboupin R., Alari V.

11:18–11:36: ISRSE36-420

Observing ocean surface currents from a geostationary satellite

Warren M.A., Quartly G.D., Miller P.I., Shutler J.D.

11:36–11:54: ISRSE36-558

Sea surface wakes observed by spaceborne SAR in the offshore wind farms

Li X.-M., Lehner S., Jacobsen S.

11:54–12:12: ISRSE36-627

GlobCurrent - advancing the surface current estimation from satellites

Johannessen J. A.

12:12–12:30: ISRSE36-712

Maritime Products Using TerraSAR-X sentinel-1 Imagery

Lehner S., Tings B.

MARI-3 Coastal areas and marine habitats

Tuesday, 12 May 2015 14:00–17:30

Lecture Room: Buenos Aires (A06)

14:00–14:18: ISRSE36-57

Mapping of algae richness using spatial data interpolation

Tapia_Silva F.O., Hernández-Cervantes O-E., Vilchis-Alfaro M-I., Senties A., Dreckman K.

14:18–14:36: ISRSE36-140

Mussel bed monitoring in the Wadden Sea: From pixels to products

Müller G., Stelzer K., Gade M.

14:36–14:54: ISRSE36-177

Combining bathymetric LiDAR and WorldView-2 satellite imagery for classifying benthic habitats using OBIA

Tamondong A., Cadalzo I. E., Estabillo M. S., Cruz C., Hipolito J. M., Go G. A., Blanco A.

14:54–15:12: ISRSE36-211

Analyses of multi-year synthetic aperture radar imagery of dry-fallen intertidal flats

Gade M., Melchionna S., Kemme L.

15:12–15:30: ISRSE36-268

Waterline detection and monitoring in the German Wadden Sea using high resolution satellite-based radar measurements

Wiehle S., Lehner S., Pleskachevsky A.

15:30 Coffee Break

16:00–16:15: ISRSE36-312

Monitoring the Wadden Sea: A multi-sensor and multi-temporal approach for high resolution classification and monitoring of the North Sea's tidal flats

Ehlers M., Jung R.

16:15–16:30: ISRSE36-362

Analysis of the shoreline position extracted from Landsat TM and ETM+ imagery

Sánchez-García E., Pardo-Pascual J.E., Balaguer-Beser A., Almonacid-Caballer J.,

16:30–16:45: ISRSE36-365

Analysis of natural background and dredging-induced changes in TSM concentration from MERIS images near commercial harbours in the Estonian coastal sea

Raag L.

16:45–17:00: ISRSE36-497

Benthic Habitat Mapping And Biodiversity Analysis In The Primeiras And Segundas Archipelago Reserve

Teixeira L., Nilsson M., Hedley J., Shapiro A.

17:00–17:15: ISRSE36-542

Estimation of mangrove fractional cover using mixture tuned matched filtering of Landsat image

Blanco A.C., Escoto J.E.D.

17:15–17:30: ISRSE36-646

Integrative Approaches for combining Earth Observation, models and in-situ data for monitoring of the North Sea and its Coastal Zone

Stelzer K., Adolph W., Eskildsen K., Gade M., Janssen F., Kohlus J., Lebreton C., Lorkowski I., Losa S., Melchionna S., Millat G., Müller G., Nerger L., Brockmann C.

POLA – Polar and Cold Regions

POLA-3 Cold regions biodiversity, landscape dynamics, transport and resource exploration

Tuesday, 12 May 2015 16:00–17:30

Lecture Room: Tromsø (A03)

16:00–16:18: ISRSE36-79

Multi-Temporal Monitoring of Thermokarst in the High Arctic

Nitze I., Grosse G., Günther F.

16:18–16:36: ISRSE36-116

Navigation Assistance for Ice-infested Waters through automatic Iceberg Detection and Ice Classification based on TerraSAR-X Imagery

Ressel R., Lehner S., **Frost A.**

16:36–16:54: ISRSE36-259

Combining optical and radar remote sensing data for the study of organic transport in "thermokarst lake – catchment"; systems of Russian Arctic

Dvornikov Y., Leibman M., Heim B., Bartsch A., Hubberten H.-W.

16:54–17:12: ISRSE36-281

Dynamics Process of Sea Ice in Antarctica East Coast - a Case Study Using Spaceborne SAR TerraSAR-X

Li X.-M., Liu H.Y., Guo H.D.

17:12–17:30: ISRSE36-661

Application of a new polarimetric filter to RADARSAT-2 data of Deception Island (Antarctic Peninsula region) for surface cover characterization

Guillaso S., Schmid T, Lopez-Martinez J, D'Hondt O.

PROG – National, regional and international programs including education and outreach

PROG-1 ESA Earth Explorer achievements

Tuesday, 12 May 2015 11:00–12:30

Lecture Room: Berlin (C01)

11:00–11:18: ISRSE36-700

Overview of 5 years of SMOS data over the oceans

Reul N.

11:18–11:36: ISRSE36-314

SCIENTIFIC ACHIEVEMENTS of the SMOS MISSION

Kerr Y., Wigneron J.-P., Ferrazzoli P., Richaume P., Reul N., Font J., Boutin J., Waldteufel P., Hahne A., Delwart S., Drusch M., Mecklenburg S.

11:36–11:54: ISRSE36-348

GOCE: Earth gravity from space

Rummel R.

11:54–12:12: ISRSE36-338

The Scientific achievements of ESA's Ice mission Cryosat

Shepherd A., Armitage T, Briggs K, Hogg A, McMillan M, Muir A, Ridout A, Sundal A, Tilling R, Wingham D, Cullen R, Francis R

12:12–12:30: ISRSE36-643

First Scientific Results From ESA's Swarm Satellite Constellation Mission

Olsen N.

PROG-2 DRAGON-3 ESA MOST China cooperation results

Tuesday, 12 May 2015 16:00–17:30

Lecture Room: Berlin (C01)

16:00–16:15: ISRSE36-524

Hydrologic and cryospheric processes observed from space

Menenti M., Li X., Vereecken H., Li J., Mancini M., Liu Q., Li J., Kuenzer C., HUANG S., Yesou H., WEN J., Kerr Y., CHENG X., Gourmelen N, KE C., Ludwig R., LIN H., Eineder M., MA Y., SU Z. and the M.Menenti Team

16:15–16:30: ISRSE36-671

Forest DRAGON-3: Decadal trends of Northeastern Forests in China from Earth Observation Synergy
Schmullius C., Santoro M., Li Z., Thiel C., Pang Y.

16:30–16:45: ISRSE36-255

Evaluation of the use of the sub-Pixel Offset Tracking method with conventional dInSAR techniques to monitor landslides in densely vegetated terrain in the Three Gorges Region, China
Sun L., Muller J.-P.

16:45–17:00: ISRSE36-35

Atmosphere and Climate
van der A R.J., Bai J., Ding A., Hao N., Xue Y., Varotsos C., Ma R., Loisele S., Huang F., Sofieva V., Liu Y., Boesch H., Ma Y., Su B.

17:00–17:15: ISRSE36-453

Earth Observation in Support of Science and Applications development in the field Land and Environment: Synthesis Results from the ESA-MOST DRAGON Cooperation Programme
Cartalis C. and the C. Cartalis Team

17:15–17:30: ISRSE36-726

Study of freshwater outflow, shallow water bathymetry and water quality in the East China Sea
Johannessen J.A., Zhou Y., Shen F., Collard F., Chapron B., Korosov A., Wergeland-Hansen M., Alpers W.

SENS – Airborne and innovative remote sensing platforms and techniques

SENS-2 New concepts and advanced applications in thermal remote sensing

Tuesday, 12 May 2015 16:00–17:30

Lecture Room: Honolulu (A05)

16:00–16:15: ISRSE36-520

HiTeSEM: A Satellite sensor concept for Hyperspectral Thermal Remote Sensing
Udelhoven T., Knigge T., Schlerf M., Bossung C., Segl K., Eisele A., Müller A., Storch T., Reulke R., Fischer P., Rock G.

16:15–16:30: ISRSE36-590

VISIR-SAT - a prospective micro-satellite based multi-spectral thermal mission for land

applications

Ruecker G., Menz G., Hartmann M., Oertel D., **Heinemann S.**

16:30–16:45: ISRSE36-617

Data Validation and Case Studies using the TET-1 Thermal Infrared Satellite System
Fischer C., Klein D., Kerr G., Stein E., Lorenz E., Frauenberger O.

16:45–17:00: ISRSE36-448

Urban and Smart City Energy and Thermal Monitoring Techniques
Lee S.

17:00–17:15: ISRSE36-511

Calculating the radiant power of fires and volcanoes
Murphy S.

17:15–17:30: ISRSE36-429

Remote sensing of inland water surface temperatures: possibilities and applications
Fricke K., Baschek B.

SENS-5 First results of the TanDEM-X science mission

Tuesday, 12 May 2015 14:00–15:30

Lecture Room: Berlin (C01)

14:00–14:18: ISRSE36-151

TanDEM-X Mission Status
Zink M.

14:18–14:36: ISRSE36-306

TanDEM-X: Science Activities
Hajnsek I.

14:36–14:54: ISRSE36-123

Quality Assessment for the First Part of the TanDEM-X Global Digital Elevation Model
Bräutigam B., Martone M., Rizzoli P., Gonzalez C., Wecklich C., Borla Tridon D., Bachmann M., Schulze D., Zink M.

14:54–15:12: ISRSE36-307

TanDEM-X: Application of the Digital Elevation Model
Hajnsek I.

15:12–15:30: ISRSE36-19

Applying terrain and hydrological editing to TanDEM-X Data to create a consumer-ready WorldDEM product
Collins J., Riegler G., Tinz M., Schrader H.

SENS-6 Data product validation and quality

Tuesday, 12 May 2015 11:00–12:30

Lecture Room: Honolulu (A05)

11:00–11:18: ISRSE36-198

An International Effort of Space Agencies for Cal/Val: CEOS Working Group Cal/Val
von Bargaen A.

11:18–11:36: ISRSE36-243

Importance Of Fiducial Reference Measurements For Satellite Earth Observation Characterisation
Bojkov B R., von Bargaen A

11:36–11:54: ISRSE36-170

Internationally Coordinated Validation of Satellite-Derived Land Surface Products
Schaepman-Strub G. and the CEOS Land Product Validation Team

11:54–12:12: ISRSE36-237

A Comprehensive Calibration and Validation Site for Information Remote Sensing
Li C.R., Tang L.L., Ma L.L., Zhou Y.S., Gao C.X., Wang N., Li X.H., Wang X.H., Zhu X.H

12:12–12:30: ISRSE36-214

Towards seamless inter-operability between global EO-derived DEM products: opportunities and threats
Muller J.-P., Feng L., Xiong S., Sun L.

SENS-7 Advances in Lidar remote sensing

Tuesday, 12 May 2015 14:00–15:30

Lecture Room: Honolulu (A05)

14:00–14:15: ISRSE36-203

A Box Counting Method to Characterize Degrees of Foliage Clumping using Airborne and Simulated LIDAR Data
van Leeuwen M., van Aardt J.A.N., Kampe T., Krause K.

14:15–14:30: ISRSE36-221

Experiences with LiDAR Ground Penetration in Dense Tropical Rainforests
Isenburg M., Trunzer H., Malmer F.

14:30–14:45: ISRSE36-222

long Full Waveform LiDAR through 60 meter of Forest Canopy
Isenburg M., Trunzer H., Malmer F.

14:45–15:00: ISRSE36-422

Potential of full waveform airborne laser scanning data for urban areas classification - Transfer of classification approaches between missions
Tran G., Nguyen D., Milenkovic M., Pfeifer N.

15:00–15:15: ISRSE36-575

Crown density of over- and understory in mixed forest stands as explained by airborne LiDAR metrics
Latifi H., Heurich M., Hartig F., Müller J., Krzystek P., Jehl H., Dech S.

15:15–15:30: ISRSE36-684

The Phil-LiDAR 2 Program: National resource inventory of the Philippines using LiDAR and other remotely sensed data
Blanco A.C., Tamondong A.M., Perez A.M.C., Ang M.R.C.O., Paringit E.C.

SENS-8 Advances in Radar remote sensing

Tuesday, 12 May 2015 16:00–17:15

Lecture Room: Sydney (B07-08)

16:00–16:18: ISRSE36-122

Significant wave height determined from sequence of X-band radar images using Teager-Huang transform
Mortazavi M. R., Huang C. J., Wu L. C.

16:18–16:36: ISRSE36-142

Evaluation of NASA Operation Icebridge snow radar Measurements over sea ice in the Canadian Arctic
Howell S., King J., Derksen C., Toose P., Silis A., Rutter N.

16:36–16:54: ISRSE36-705

SAR-EDU - An education initiative for applied Radar Remote Sensing
Eckardt R., Riedel T., Eineder M., Auer S., Walter D., Jagdhuber T., Braun M., Motagh M., Pathe C., Pleskachevsky A., Thiel C., Hajnsek I., Lehner S., Bock M., Schmullius C.

16:54–17:12: ISRSE36-707

Inversion of three layers multi-scale SPM Model based on Neural Network technique for the Retrieval of Soil multi-scale roughness and moisture Parameters
HOSNI I., JAAFRI GHAMKI M., BENNACEUR FARAH L., NACEUR M.S., FARAH I.R

SOCI – Socioeconomic issues including health, urbanization and human heritage

SOCI-2 Methods for observing urbanisation

Tuesday, 12 May 2015 11:00–15:15

Lecture Room: Tromsøe (A03)

11:00–11:18: ISRSE36-242

Analysis of urban development by means of multi-temporal fragmentation metrics from LULC data
Sapena M., Ruiz L. A.

11:18–11:36: ISRSE36-310

Towards an automated monitoring of human settlements in South Africa using high resolution SPOT satellite imagery
Kemper T., Mudau N., Mangara P., Pesaresi M.

11:36–11:54: ISRSE36-319

Integration of Day-Night Imaging and Non-Imaging Datasets for the Assessment of Temporal Changes in City Structure: A Case Study of Raipur City, India
Mustak S.

11:54–12:12: ISRSE36-337

Fractal Analysis Of Colors And Shapes For Natural And Urbanscapes URBANSCAPES
Wang J., Ogawa S.

12:15 Lunch Break

14:00–14:18: ISRSE36-481

With Geospatial in Path of Smart City
Homainejad A.S.

14:18–14:36: ISRSE36-532

A multi-scale SVM-based approach to derive urban landuse / landcover from multispectral images
Bachofer F., Hagensieker R., Hochschild V.

14:36–14:54: ISRSE36-680

Application of Lidar Data and 3D-City Models in Visual Impact Simulations of Tall Buildings
Czyżska K.

14:54–15:12: ISRSE36-696

Build-up area information extraction using long time series Landsat remote sensing images
Wang G., He G., Liu J.

Wednesday, 13 May 2015

Plenary & Technical Sessions

Time	Kind of Session	C01 Berlin	B05-06 Beijing	B07-08 Sydney	B09 Stresa	A03 Tromsø	A04 Cape Town	A05 Honolulu
9:00	Plenary	PLEN-3						
10:30		Coffee Break						
11:00	Technical	PROG-3	BIOD-3	BIOD-7	DISA-4	POLA-1	DATA-4	ENGY-1
12:30		Lunch						
14:00	Technical	PROG-5	BIOD-5	BIOD-7	DISA-3		DATA-4	SENS-3
15:30		Coffee Break						
16:00	Technical	SENS-4	BIOD-5	BIOD-7	DISA-5		AGRI-4	ATMC-4

Special Sessions

Time	A06 Buenos Aires	A08 Ann Arbor
11:00	SPEC-3	
12:30		SPEC-2
14:00	SPEC-3	SPEC-4
16:00	SPEC-3	SPEC-4

Wednesday, 13 May 2015

Plenary Session

PLEN-3 The Copernicus Era

Wednesday, 13 May 2015 09:00–10:30

Lecture Room: Berlin (C01)

09:00–09:30
Introducing Copernicus - Vision, Status, Outlook, Philippe Brunet, EC

09:30–09:45
User report 1: "Copernicus in our operations", Chris Steenmans, EEA

09:45–10:00
User report 2: "Copernicus in our operations", Jörg Roos, EC DG Echo

10:00–10:15
Copernicus - opportunities for science, Wolfram Mauser, TU Munich

10:15–10:30
"Growth" by Copernicus - an SME perspective, Geoff Sawyer, EARSC

Special Events

SPEC-2 EO and Africa : A joint Europe - Africa Perspective

Wednesday, 13 May 2015 12:30–14:00

Lecture Room: Ann Arbor (A08)

The joint EU - Africa Strategy and its EU - Africa Space dialogue (EU speaker, P. Brunet)

The African perspective : Africa Space Policy (Dr Martial De-Paul Ikounga, African Union Commissioner for Human Resources, Science and Technology - HRST)

The GMES and Africa initiative (Mahama Ouedraogo, Director for HRST, African Union Commission)

A concrete example : GFCS and Africa (Dr Guleid Artan, Director of the IGAD Climate Prediction and Application Centre)

A concrete example : MESA project (Dr Abebe, Director Rural Economy and Agriculture Department, African Union

Commission)

SPEC-3 ABCC Program: Earth Observation for Global Change

Wednesday, 13 May 2015 11:00–17:30

Lecture Room: Buenos Aires (A06)

SPEC-4 EO Infrastructure for Data Access and Dissemination in Africa

Wednesday, 13 May 2015 14:00–17:30

Lecture Room: Ann Arbor (A08)

African Union Commission (tbc, Human Resources, Science & Technology)

Algerian Space Agency (Mr. Karim HOUARI, Director of international Cooperation)

AGRHYMET (Mr. Boufaou, Director General)

CNES (Aurélie Sand, Scientific Director of the SEAS-OI Center)

Department of Science and Technology, South Africa (tbc)

DLR (Dr. Stefan Dech, Director, Earth Observation Center)

15:30 Coffee Break

European Commission (Mr. Philippe Brunet, Director Aerospace, Maritime and Defence Industries)

European Space Agency (Mr. Hanowski, Head of Earth Observation Ground Segment and Missions Operations Department)

EUMETSAT (Dr. Vincent Gabaglio, International Relations Officer)

Ghana Space Science and Technology Institute (Dr. Anna Ama Browne Klutse, Manager Remote Sensing, GIS & Climate Center)

Regional Centre for Mapping of Resources for Development (RCMRD) (Dr. Hussein O. Farah, Director General)

South African Space Agency (Dr Jane Olwich, Managing Director, Earth Observations)

AGRI – Agriculture and food security

AGRI-4 Monitoring of managed grasslands

Wednesday, 13 May 2015 16:00–17:30

Lecture Room: Cape Town (A04)

16:00–16:15: ISRSE36-70

Satellite-based assessment of grassland yields
Grant K., Siegmund R., Wagner M., Hartmann S.

16:15–16:30: ISRSE36-353

Estimation of Grass Yield in large region on Geographically Weighted Regression Model
Chengfeng L., Xiujuan Y., Caijuan L., Yinkun D.

16:30–16:45: ISRSE36-432

Biomass estimation to support pasture management in Niger
Schucknecht A., Meroni M., Kayitakire F., Rembold F., Boureima A.

16:45–17:00: ISRSE36-436

Determining use intensities of semi-natural grassland from high resolution intra-annual satellite time series
Jopke C., Tintrup gen. Suntrup G., Kleinschmit B., Förster M.

17:00–17:15: ISRSE36-713

Validation of the EO-LDAS Prototype - A Data Assimilation Tool for Crop Monitoring
Truckenbrodt S.C., Schmulilius C.C.

17:15–17:30: ISRSE36-716

Application of Historical Ground Data, Satellite Data and Integration of GPS and GIS for Range Monitoring in Arid Rangelands
Arzani H., Frahpour M., Azimi M.

ATMC – Atmosphere, weather and climate

ATMC-4 Human Interaction with Climate and Atmosphere

Wednesday, 13 May 2015 16:00–17:15

Lecture Room: Honolulu (A05)

16:00–16:18: ISRSE36-41

Time Series Analysis of Satellite-Measured Vegetation Phenology and Aerosol Optical

Thickness over the Korean Peninsula
PARK S.

16:18–16:36: ISRSE36-378

Exploring the relationships of between land surface temperature, ground coverage ratio and building volume density in an urbanized environment
Zhan Q., Meng F., Xiao Y.

16:36–16:54: ISRSE36-395

Monitoring and Assessment of Regional air quality in China using space Observations (MarcoPolo)
van der A R.J. and the MarcoPolo Team

16:54–17:12: ISRSE36-688

Assessing the impact of urbanization on urban climate by remote satellite perspective: a case study in Danang city, Vietnam
Hoang Khanh Linh N., Van Chuong H.

BIOD – Forests, biodiversity and terrestrial ecosystems

BIOD-3 Forests Mapping and Monitoring

Wednesday, 13 May 2015 11:00–12:12

Lecture Room: Beijing (B05-06)

11:00–11:18: ISRSE36-589

Quantification of the terrestrial phytomass and carbon in the mountainous forest ecosystem using remote sensing and in-situ observations
Patil P., Dutta D., Biradar C., Singh M.

11:18–11:36: ISRSE36-659

Tree biomass in the Swiss landscape: Nation-wide modelling for forest and non-forest trees using remotely sensed data
Price B., Gomez A., Mathys L., Thürig E., Ginzler C.

11:36–11:54: ISRSE36-664

Importance of sample size, data type and prediction method for remote sensing based aboveground forest biomass estimation
Fassnacht F.E., Hartig F., Latifi H., Berger C., Hernandez J., Corvolan P., Koch B.

11:54–12:12: ISRSE36-729

Design and operation of Australia's TERN AusCover Remote Sensing Data Facility & Associated Forest Monitoring Activities
Held A., Phinn S.

BIOD-5 Wildfires

Wednesday, 13 May 2015 14:00–17:30

Lecture Room: Beijing (B05-06)

14:00–14:18: ISRSE36-56

Improving national shrub and grass fuel maps using remotely sensed data to support fire risk assessments

Vogelmann J., Hawbaker T., Shi H., Li Z., Reeves M.

14:18–14:36: ISRSE36-46

Rapid response tools and datasets for post-fire modeling: linking Earth Observations and process-based hydrological models to support post-fire remediation

Miller M.E., Billmire M., Elliot W.J., Endsley K.A., Robichaud P.R.

14:36–14:54: ISRSE36-32

Utilization of Multi-Sensor Active Fire Detections to Map Fires in the US. The Future of Monitoring Trends in Burn Severity
Coan M., Picotte J., Howard S.M.

14:54–15:12: ISRSE36-215

Long-term monitoring of the Suomi NPP active fire product and transitioning to the JPSS-1 satellite

Csiszar I., Schroeder W., Giglio L.

15:15 Coffee Break

16:00–16:18: ISRSE36-233

Estimating sub-pixel patchiness of wildfires in Australia using MODIS data and a linear un-mixing approach
Maier S. W.

16:18–16:36: ISRSE36-165

Spatial and temporal variability of burned areas in Northern Eurasia from 2002 to 2012
Hao W. M., Petkov A., Nordgren B., Corley R. E., Urbanski S. P.

16:36–16:54: ISRSE36-105

Enhanced Wildland Fire Management Decision Support Using Lidar-Infused LANDFIRE Data
Peterson B., Jolly W.M.

16:54–17:12: ISRSE36-108

Development of the Advanced Fire Information System
Frost P.

17:12–17:30: ISRSE36-714

The importance of biomass burning feedbacks: Focus on CALIOP-based estimates of smoke plume injection height

Soja A.J., Choi H.-D., Vaughan M, Fairlie T.D., Westberg D.J., Roller C., Winker D., Trepte C., Kukavskaya E., Pouliot G., Szykman J.J.

BIOD-7 Various approaches to landcover mapping

Wednesday, 13 May 2015 11:00–17:30

Lecture Room: Sydney (B07-08)

11:00–11:15: ISRSE36-45

Combining Earth Observations with Animal tracking data- outlining the AniMove.org outreach and education approach
Wegmann M., Safi K., Pettorelli N.

11:15–11:30: ISRSE36-144

A proper Land Cover and Forest Type Classification Scheme for Mexico
Gebhardt S., Maeda P., Wehrmann T., Argumedo Espinoza J., Schmidt M.

11:30–11:45: ISRSE36-145

Mapping threatened dry deciduous dipterocarp forest ecosystems in South-east Asia for conservation management
Wohlfart C., Wegmann M., Leimgruber P.

11:45–12:00: ISRSE36-253

Improving land cover maps with multi-temporal, medium resolution hyperspectral imagery
Clark M.

12:00–12:15: ISRSE36-531

Brazilian dry forest: understanding climate changes and biodiversity dynamics using SEBAL algorithm and cloud computing
RUFINO I. A.A., CUNHA J. E. B. L., GALVÃO C.O., FIORE S., ALOIZIO G., BRASILEIRO F.V.

12:15–12:30: ISRSE36-336

Remote sensing of dryland vegetation dynamics and degradation at medium spatial scale: lessons from Africa and Asia
Dubovyk O., Landmann T., Erasmus B., Jakob A., Menz G., Khamzina A., Schellberg J.

12:30 Lunch Break

14:00–14:15: ISRSE36-541

Monitoring of rapid land cover changes in eastern Japan using Terra/MODIS data
Harada I., Hara K., Park J., Asanuma I., Tomita M., Hasegawa D., Short K., Fujihara M,

14:15–14:30: ISRSE36-551

Spectral Mixture Analysis (SMA) of Landsat

Imagery for Land Cover Change Study of Highly Degraded Peatland in Indonesia
Sakti A. D., Tsuyuki S.

14:30–14:45: ISRSE36-581

Estimation of Biomass Carbon Stocks over Peat Swamp Forests using Multi-Temporal and Multi-Polarizations SAR Data
Wijaya A., Liesenberg V., Susanti A., Karyanto O., Verchot L.V.

14:45–15:00: ISRSE36-611

Spatial analysis of the reliability of pan-European remote sensing based forest maps with national forest inventory data at regional scale
Seebach L., **Adler P.**, Ginzler C., Steinmeier C.

15:00–15:15: ISRSE36-43

Inter-comparison and evaluation of the global LAI product (LAI3g) and the regional LAI product (GGRS-LAI) over the area of Kazakhstan
Kappas M., Propastin P., Degener J., Renchin T.

15:15–15:30: ISRSE36-72

Prospect inversion for indirect estimation of leaf dry matter content and specific leaf area
Ali A., Darvishzadeh R., Skidmore A.-K., Duren I.-V., Heiden U., Heurich M.

15:30 Coffee Break

16:00–16:15: ISRSE36-182

Supporting near-realtime forest monitoring in Siberia using a data middleware infrastructure and multi-source earth observation data
Hüttich C., Eberle J., Korets M., Schmulius C.

16:15–16:30: ISRSE36-257

Ensemble Classification of Individual Tree Species from Multispectral Satellite Imagery and Airborne LiDAR data
Kukunda C. B., Duque-Lazo J., González-Ferreiro E., RENNIES H., Khosravipour A., Hussin Y., Kleinn C.

16:30–16:45: ISRSE36-439

Opportunities of Semi-Global Matching for vegetation height classification - case study Hohenfels Training Area to support environmental management of military training areas
Gurske E., Sandkaulen M., Böhm A., Schultz A.

16:45–17:00: ISRSE36-556

Improving estimates of woody shrub expansion using Landsat time-series trajectories
Higginbottom T., Symeonakis E

17:00–17:15: ISRSE36-606

A new physically based vegetation index for improved phenology estimation by remote sensing
Eklundh L., Jin H.

17:15–17:30: ISRSE36-708

Research and Development Needs on the Use of Satellite Observations of Forests in order to reduce Greenhouse Gas Emissions and protect Forest Carbon Stocks
Seifert F. M., Michel A., Rosenqvist A., Egglestone S.

DATA – Data and information systems and spatial data infrastructure

DATA-4 Image analysis, correction and information retrieval

Wednesday, 13 May 2015 11:00–15:30

Lecture Room: Cape Town (A04)

11:00–11:15: ISRSE36-18

Multiple Auto-Adapting Color Balancing for Large Number of Images
Zhou X.

11:15–11:30: ISRSE36-28

3D-information fusion from very high resolution satellite sensors
Krauss T., d'Angelo P., Kuschk G., **Tian J.**, Partovi T.

11:30–11:45: ISRSE36-183

A Robust False Matching Points Detection Method for Remote Sensing Image Registration
Shan X. J., **Tang P.**

11:45–12:00: ISRSE36-232

A New Variational Model with Group Gradient Sparsity Constraints for Image Fusion
Tang P., Chen Z.

12:00–12:15: ISRSE36-398

A modified approach for change detection using change vector analysis in posterior probability space
AZZOUZI S. A., VIDAL A., BENTOUNES H. A.

12:15–12:30: ISRSE36-104

Which classification method is best? An infrastructure for rigorous comparisons of classification algorithms
Lawrence R.

12:30 Lunch Break

14:00–14:15: ISRSE36-399

Enhancement of the double flexible pace search threshold determination for change vector analysis
AZZOUZI S. A., Vidal A., BENTOUNES H. A.

14:15–14:30: ISRSE36-534

Topographic Correction Module at Storm (TC@Storm)
Zakek K., ?otar K., Veljanovski T., Pehani P., O'tir K.

14:30–14:45: ISRSE36-559

Automatic Generation Of Training Data For Hyperspectral Image Classification Using Support Vector Machine
Abbasi B., Arefi H., Bigdeli B., **Roessner S.**

14:45–15:00: ISRSE36-564

Fusion of hyperspectral and lidar data based on dimension reduction and maximum likelihood
Abbasi B., Arefi H., Bigdeli B., Motagh M., **Roessner S.**

15:00–15:15: ISRSE36-678

Computing and monitoring potential of public spaces by shading analysis using 3d lidar data and advanced image analysis
Zwolinski A., Jarzemski M.

15:15–15:30: ISRSE36-706

The use of Geographically Weighted PCA to classify land cover from multispectral image data
Comber A., **Harris P.**, Tsutsumida N.

DISA – Natural disasters monitoring, warning and response

DISA-3 Satellite based Vulcano observation

Wednesday, 13 May 2015 14:00–15:15

Lecture Room: Stresa (B09)

14:00–14:18: ISRSE36-85

Advanced Procedures for volcanic and Seismic Monitoring
DI IORIO A., Stramondo S.

14:18–14:36: ISRSE36-135

Monitoring the Bardarbunga eruption using GOME-2/Metop-A & -B

Hedelt P., Valks P., Loyola D.

14:36–14:54: ISRSE36-485

D-InSAR Monitoring of Volcanic Activity over Tatan Mountain in Taiwan
Tsai Y., Lin S., Kim J.

14:54–15:12: ISRSE36-535

Lava Flow Monitoring Using TET-1 Satellite
Zakek K., Lorenz E., Hort M.

DISA-4 Fire and burned area monitoring

Wednesday, 13 May 2015 11:00–12:30

Lecture Room: Stresa (B09)

11:00–11:15: ISRSE36-24

Fire Monitoring - The use of medium resolution satellites (AVHRR, MODIS, TET) for long time series processing and the implementation in User Driven Applications and Services
Fuchs E.-M., Stein E., Strunz G., Strobl C., Frey C.

11:15–11:30: ISRSE36-189

Automated mapping of burned areas in semi-arid ecosystems using modis time-series imagery
Hardtke L.A., Blanco P.D., del Valle H.F., **Metternicht G.I.**, Sione W.F.

11:30–11:45: ISRSE36-613

Real-time stream processing for active fire monitoring on Landsat 8 direct reception data
Bohme C., Bouwer P., Prinsloo T.

11:45–12:00: ISRSE36-60

SAR-based change detection using hypothesis testing and Markov random field modelling
Cao W., Martinis S.

12:00–12:15: ISRSE36-247

Recent satellite data contribution for rapid mapping activities, natural disasters management, humanitarian operations and early recovery planning
Navarro C., Belabbes S., Pedersen W., Jorda C., Guglielmi V., Fiol M., Bromley L., Bjorgo E.

12:15–12:30: ISRSE36-379

Data Collection for Disaster Response from the International Space Station
Stefanov W.L., Evans C.A.

DISA-5 SAR applications in Disaster Monitoring

Wednesday, 13 May 2015 16:00–17:30

Lecture Room: Stresa (B09)

16:00–16:18: ISRSE36-136

Tsunami Affected Farmland Extraction Using Morphological Profiles (MPs) Method by Satellite Images Including SAR and Visible Near-Infrared Band Data
Yamada Y.

16:18–16:36: ISRSE36-266

The use of SAR interferometry for landslide mapping in the Indian Himalayas
Vöge M., Frauenfelder R., Ekseth K., Arora M.K., Bhattacharya A., Basin R.K.

16:36–16:54: ISRSE36-313

Preparation of a national Copernicus-service to support hazard mitigation by surface motion detection
Kalia A. C., Frei M., Lege T.

16:54–17:12: ISRSE36-557

InSAR constraints on fault slip models during the 2014 earthquake sequence in the Zagros mountain, SW Iran
Motagh M., Bahroudi A., Haghshenas Haghghi M., Samsonov S., Fielding E., Wetzell H.U

17:12–17:30: ISRSE36-628

Long-term monitoring of a deep-seated, slow-moving landslide by mean of C-band and X-band advanced interferometric products: the Corvara in Badia case study (Dolomites, Italy).
Mulas M., Petitta M., Corsini A., Schneiderbauer S., Mair V., Iasio C.

ENGY – Energy and geological resources

ENGY-1 Remote sensing of energy and mineral resources

Wednesday, 13 May 2015 11:00–12:30

Lecture Room: Honolulu (A05)

11:00–11:18: ISRSE36-61

A comparison of Landsat 8 (OLI) and Landsat 7 (ETM+) in mapping geology and visualising lineaments: A case study of central region Kenya
Mwaniki M., Möller M., Schellmann G.

11:18–11:36: ISRSE36-372

Hyperspectral mineral mapping of the Transvall Banded Iron Formations, South Africa, within the scope of the EnMAP Mission
Schodlok M., Frei M., Altermann W., Hahne K.

11:36–11:54: ISRSE36-396

Thermal and radar remote sensing in support of geothermal exploration in Kenya
Friese A., Hahne K.

11:54–12:12: ISRSE36-578

Modelling and mapping of potential zones for solar energy in Aswan Region, Egypt
Effat H.

12:12–12:30: ISRSE36-583

Fractal dimensions for radioisotope pollution patterns by nuclear power plant accidents
SAITO K., OGAWA S

POLA – Polar and Cold Regions

POLA-1 Complementary and synergetic use of X and C-Band data/ radar observation of cold regions

Wednesday, 13 May 2015 11:00–12:30

Lecture Room: Tromsø (A03)

11:00–11:18: ISRSE36-246

Integrated SAR technologies for monitoring the stability of mine sites: application using TerraSAR-X and RADARSAT-2 images
Rheault M., Bouroubi Y., Sarago V., Bugnet P., Gosselin C., Benoit M., Nguyen-Xuan T.

11:18–11:36: ISRSE36-410

Extreme Ice Feature Monitoring using C- and X-band SAR Data
Bobby P., Zakharov I., Saunders K., Warren S., Power D., Adlakha P., Jefferies B.

11:36–11:54: ISRSE36-402

Monitoring Freezing and Break-up of Rivers and Shallow Lakes with High Resolution Polarimetric SAR Data
Roth A., Schmitt A., Gauthier Y., Hardy S.

11:54–12:12: ISRSE36-48

Potential for the combination of multifrequency SAR acquisitions and optical data for polynia research
Hollands T., Dierking W.

12:12–12:30: ISRSE36-623

Monitoring of wet snow occurrences and accumulations at high Alpine glaciers using RADAR technologies
Wendleder A., Heilig A., Schmitt A., Mayer C.

PROG – National, regional and international programs including education and outreach

PROG-3 Sentinels for Science: SEOM program results

Wednesday, 13 May 2015 11:00–12:30

Lecture Room: Berlin (C01)

11:00–11:15: ISRSE36-26

The ESA Scientific Exploitation of Operational Missions element
DESNOS Y-L.

11:15–11:30: ISRSE36-49

Assessment of the Sentinel-1 interferometric capabilities in the interferometric wide-swath mode
Prats P., Nannini M., Scheiber R., De Zan F., Wollstadt S., Minati F., Costantini M., Bucarelli A., Borgstrom S., Walter T., Fomelis M., Desnos Y.-L.

11:30–11:45: ISRSE36-430

INSARAP-2: Sentinel-1 InSAR Performance Study with TOPS Data
Dehls J., Hooper A., Larsen Y., Marinkovic P., Perski Z., Wright T.

11:45–12:00: ISRSE36-236

Sentinel Toolbox Development
Fomferra N., Brockmann C., Veci L., Ducoin N., Regner P., Engdahl M., Gascon F., Fincke T.

12:00–12:15: ISRSE36-150

SEOM's advanced Clouds, Aerosols and WAter vapour products for Sentinel-3/OLCI' project CAWA
Fischer J., Dubovik O., Preusker R., Aspetsberger M., Brockmann C., Bojkov B.

12:15–12:30: ISRSE36-258

SEOM SY-4SCI Ocean Virtual Laboratory using the synergy amongst Sentinels for Ocean Science
Collard F.

PROG-5 The EnMAP imaging spectroscopy mission and its science perspectives

Wednesday, 13 May 2015 14:00–15:30

Lecture Room: Berlin (C01)

14:00–14:15: ISRSE36-635

The EnMAP Mission
Chlebek C., Fischer S., Grosser J., Gentz B., Guanter L., Honold H.P., Heider B., Sang B., Storch T.

14:15–14:30: ISRSE36-30

Overview about the EnMAP Science Perspectives
Guanter L., Segl K., Rogass C., Förster S., Kuester T., König B., Sang B., Storch T., Müller A., Rossner G., Chlebek C., Hill J., Hostert P., Krasemann H., Mauser W.

14:30–14:45: ISRSE36-77

EnMAP - a scientific seed instrument for information-driven sustainable agriculture
Mauser W., Bach H., Hank T.

14:45–15:00: ISRSE36-367

Mapping ecosystem transitions with EnMAP data and machine learning algorithms
van der Linden S., Leitão P.J., Okujeni A., Schwieder M., Suess S., Hostert P.

15:00–15:15: ISRSE36-201

Potential of EnMAP and Sentinel-2 for Early Detection of Drought Stress in a Central European Forest
Hill J., Dotzler S., Buddenbaum H., Stoffels J.

15:15–15:30: ISRSE36-692

Potential synergies between HypSIRI / ECOSTRESS and EnMAP for Earth system applications
Hook S.

SENS – Airborne and innovative remote sensing platforms and techniques

SENS-3 Sourcing the crowd - Earth Observation in partnership with citizens

Wednesday, 13 May 2015 14:00–15:30

Lecture Room: Honolulu (A05)

14:00–14:18: ISRSE36-330

Citizen Science for Earth Observation:
Applications to environmental monitoring and
disaster response

Kotovirta V., **Toivanen T.**, Tergujeff R., Häme
T., Molinier M.

14:18–14:36: ISRSE36-615

Enabling the transition towards Earth
Observation Science 2.0

MATHIEU P.-P.

14:36–14:54: ISRSE36-248

A comparison of crowdsourced data from the
Cropland Capture game with Degrees of
Confluence and remote sensing imagery

See L., Fritz S., Sturn T., Salk C., Perger C.,
Duerauer M., McCallum I., Kraxner F.,
Obersteiner M.

14:54–15:12: ISRSE36-735

Assessment of the added value of
openstreetmap for land cover / land use
mapping

Jokar Arsanjani J., See L., Milcinski G., Fonte
C., Bastin L., Estima J., Lupia F., Fritz S.

15:12–15:30

Discussion

**SENS-4 Complementary and synergetic
use of X and C-Band data**

Wednesday, 13 May 2015 16:00–17:30

Lecture Room: Berlin (C01)

16:00–16:18: ISRSE36-543

Multi-application InSAR Integration with
TerraSAR-X and RADARSAT-2

Rabus B., Ghuman P.

16:18–16:36: ISRSE36-66

High Temporal Resolution Permafrost
Monitoring using a Multiple Stack InSAR
Technique

Eppler J., Kubanski M., Sharma J., Busler J.

16:36–16:54: ISRSE36-238

Advancements in Estimating Crop Growth
Stages Using RADARSAT-2 and TERRASAR-X
Polarimetric Data

Lampropoulos G., Li Y.

16:54–17:12: ISRSE36-180

Infrastructure Monitoring in Regions Affected by
Permafrost Using High Resolution
Multi-Frequency SAR Data

Kiefl N., Prietzsch C., Anderssohn J.,
Bindrich M.

17:12–17:30: ISRSE36-683

Fusion of Radarsat-2 and TanDEM-X satellite
data to support the assessment of aboveground
biomass (AGB) in temperate forests

Berger C., Truckenbrodt J., Engelhardt S., Thiel
C., Enßle F., Fassnacht F., Schullius C.,
Koch B.

Thursday, 14 May 2015

Plenary & Technical Sessions

Time	Kind of Session	C01 Berlin	B05-06 Beijing	B07-08 Sydney	B09 Stresa	A03 Tromsø	A04 Cape Town	A05 Honolulu	A06 Buenos Aires	
9:00	Plenary	PLEN-4								
10:30		Coffee Break								
11:00	Technical	PROG-7	BIOD-5	BIOD-9	DATA-3			SENS-9	MARI-1	
12:30		Lunch								
14:00	Technical	SENS-1	BIOD-4	BIOD-8	DATA-3	SOCI-1	AGRI-5	ATMC-2	WACY-1	
15:30		Coffee Break								
16:00	Technical	SENS-1	BIOD-4	BIOD-8	DATA-5	SOCI-1	AGRI-7	ATMC-2	WACY-2	

Special Sessions

Time	A03 Tromsø	A08 Ann Arbor
11:00	SPEC-6	
12:30		SPEC-7

Thursday, 14 May 2015

Plenary Session

PLEN-4 Global Trends and Challenges in Remote Sensing Technology

Thursday, 14 May 2015 09:00–10:30

Lecture Room: Berlin (C01)

09:00–09:15

New Approaches in SAR Imaging, Alberto Moreira, DLR

09:15–09:30

Optical Imaging from the ISS, Keith Beckett, UrtheCast

09:30–09:45

The Use of UAVs for Remote Sensing Applications: Current Examples and Future Trends, Kyriacos Themistocleous; Cyprus University of Technology

09:45–10:00

Micro-satellite for Hyperspectral Imaging, Goh Cher Hiang, National University of Singapore

10:00–10:15

Cloud based Geo-platforms - a new business model to simplify the geo business, Manfred Krischke, CloudEO

10:15–10:30

Google Earth Engine: Massive earth observation data access and processing, David Thau, Google

Special Events

SPEC-6 Author Workshop: How to publish your research in a top journal

Thursday, 14 May 2015 11:00–12:30

Lecture Room: Tromsø (A03)

This special workshop is to reach out to early career scientists to tell them more about the publishing process, how to write papers for top journals (from publisher and editor perspective), ethics and language. By Edward Van Lanen - Journal Publisher Elsevier.

SPEC-7 Space-based Maritime Situational Awareness

Thursday, 14 May 2015 12:30–14:00

Lecture Room: Ann Arbor (A08)

Space-based Maritime Situational Awareness (SB-MSA) - Provides Security, Saves Lives, Money, the Marine Environment and its Resources. The combination with EO data shows the non-cooperative as well as the small vessels.

12:30–13:00

C-SIGMA- Combining S-AIS data with Image Systems and Big Data for multiple uses; Guy Thomas

13:00–13:20

Maritime Safety and Security using Multisensor EO in Combination with AIS; Susanne Lehner

13:20–13:40

Maritime NRT Services from DLRs ground station in Neustrelitz; Egbert Schwarz

13:40–14:00

Maritime Safety in Ice Infested Waters; Des Power

AGRI – Agriculture and food security

AGRI-5 Different approaches to crop and cropland mapping

Thursday, 14 May 2015 14:00–15:30

Lecture Room: Cape Town (A04)

14:00–14:15: ISRSE36-119

Rice-planted area extraction by time series analysis of ENVISAT ASAR WS data using a phenology-based classification approach: A case study for Red River Delta, Vietnam
Nguyen D., Wagner W., Naeimi V., Cao S.

14:15–14:30: ISRSE36-148

Dynamic time warping applied to spatiotemporal agriculture mapping in the Brazilian Amazon
Maus V., Câmara G., Cartaxo R., Ramos F.

14:30–14:45: ISRSE36-350

Research on rice acreage estimation in fragmented area based on decomposition of mixed pixels
Zhang H., Li Q. Z., Lei F., Du X., Wei J. D.

14:45–15:00: ISRSE36-513

Systematic Crop Mapping of SIGMA Test Sites with 100M PROBA-V Data
Durgun Y.O.D., Gilliams S.G., Gobin A.G., Duveiller G.D., Djaby B.D., Tychon B.T.

15:00–15:15: ISRSE36-445

The Tasseled Cap Transformation for RapidEye data
Schönert M., Weichelt H., Zillmann E., Eitel J.U.H., Magney T.S., Lillenthal H., Siegmann B., Jarmer T.

15:15–15:30: ISRSE36-81

Mapping maize (*Zea mays* L.) Seasonality for Capturing Changes in Stemborers Occurrence
Abdel-Rahman E.M., Landmann T., Kyalo R.

AGRI-7 Modeling crop yields

Thursday, 14 May 2015 16:00–17:30

Lecture Room: Cape Town (A04)

16:00–16:15: ISRSE36-29

Rice Crop Monitoring and Yield Assessment with MODIS 250m Gridded Vegetation Products: A Case Study of Sa Kaeo Province, Thailand.
Wijesingha J.S.J., Deshapriya N.L., Samarakoon L]

16:15–16:30: ISRSE36-711

Rice Crop Monitoring and Yield Estimation Through Cosmo Skymed and TerraSAR-X: A SAR-Based Experience in India

Pazhanivelan S., Kannan P., Christy Nirmala Mary P., Subramanian E., Jeyaraman S., Nelson A., Setiyono T., Holecz F., Barbieri M., Yadav M.

16:30–16:45: ISRSE36-55

Prediction of crop yield and sub-field heterogeneity: a comparison of three models
Machwitz M., Schlerf M., Buchner J.

16:45–17:00: ISRSE36-185

Comparison of biophysical and satellite predictors for wheat yield forecasting in Ukraine
Kolotii A., Kussul N., **Shelestov A.**, Skakun S., Yailymov B., Basarab R., Lavreniuk M., Oliinyk T., Ostapenko V.

17:00–17:15: ISRSE36-324

Relationships between primary production and crop yields in semi-arid and arid irrigated agro-ecosystems
Jaafar H., Ahmad F.

17:15–17:30: ISRSE36-441

The Impact of Multi-Sensor Data Assimilation on Plant Parameter Retrieval and Yield Estimation for Sugar Beet
Hodrius M., Migdall S., **Bach H.**, Hank T.

ATMC – Atmosphere, weather and climate

ATMC-2 Atmosphere remote sensing techniques and Missions

Thursday, 14 May 2015 14:00–17:30

Lecture Room: Honolulu (A05)

14:00–14:15: ISRSE36-174

Global Climate Observations - a Roadmap to the Future
Richter C., Dolman A.J., Briggs S. A., Simmons A.J.

14:15–14:30: ISRSE36-322

The CEOS Atmospheric Composition Constellation: Enhancing the value of space-based observations
Eckman R.S., Zehner C., Al-Saadi J.

14:30–14:45: ISRSE36-184

The greenhouse gas project of ESA's Climate Change Initiative (GHG-CCI): Overview,

achievements and future plans

Buchwitz M., Reuter M., Schneising O. and the GHG-CCI Team

14:45–15:00: ISRSE36-103

Absolute Imager Intercalibration On Orbit: Quantifying the Polarization Effects on the CLARREO's Reflected Solar Spectrometer-Imager Intercalibration
Goldin D., Lukashin C., Sun W.

15:00–15:15: ISRSE36-290

Observing Methane from Space - The French German LIDAR Mission MERLIN
Alpers M., Ehret G., Flamant P., Millet B.

15:15–15:30: ISRSE36-120

Remote sensing of the atmospheric composition in the infrared spectral region within the Network for the Detection of Atmospheric Composition Change (NDACC) and the Total Carbon Column Observing Network (TCCON)
Notholt J. and the TCCON and NDACC Team

15:30 Coffee Break

16:00–16:15: ISRSE36-125

Observing Systems Simulation Experiment (OSSEs) for air quality applications
Timmermans R.M.A., Lahoz W.A., Attié J.-L., Peuch V.-H., **Curier R.L.**, Edwards D.P., Eskes H.J., Builtjes P.J.H.

16:15–16:30: ISRSE36-335

Climate Absolute Radiance and Refractivity Observatory (CLARREO)
Leckey J.

16:30–16:45: ISRSE36-494

Satellite radiothermvision of atmospheric mesoscale processes: case study of tropical cyclones
Ermakov D.M., Sharkov E.A., Chernushich A.P.

16:45–17:00: ISRSE36-518

Towards Disentangling Natural and Anthropogenic GHG Fluxes from Space - The CarbonSat Earth Explorer 8 Candidate Mission
Bovensmann H.

17:00–17:15: ISRSE36-533

Cloud Photogrammetry from Space
Zakek K., Gerst A., von der Lieth J., Ganci G., Hort M.

17:15–17:30: ISRSE36-588

Comparisons of Aerosol Optical Depth provided by SEVIRI Satellite Observations and CAMx Air Quality Modelling
Fernandes A., Riffler M., Ferreira J., Wunderle

S., Borrego C., Tchepel O.

BIOD – Forests, biodiversity and terrestrial ecosystems

BIOD-4 Biodiversity and conservation

Thursday, 14 May 2015 14:00–17:15

Lecture Room: Beijing (B05-06)

14:00–14:15: ISRSE36-748

Remote Sensing for Essential Biodiversity Variables
Skidmore A., Wegmann M., Mucher S., Pettorelli N., Wang T.

14:15–14:33: ISRSE36-527

The Dynamic Habitat Index derived from three decades of MODIS and AVHRR data and its relationship to global patterns on mammal species richness
Radeloff V.C., Brooks T.M., Coops N.C., Hobi M., Kummerle T., Pidgeon A.M., Rondinini C., Suttodate N.

14:33–14:51: ISRSE36-435

Biodiversity knowledge and loss of natural vegetation in protected areas in Sub-Saharan Africa
Szantoi Z., Stropp J., Brink A.

14:51–15:09: ISRSE36-645

Tracing anthropogenic pressures on biodiversity in the African Sahelo-Saharan region - a case study for Niger based on radar imagery
Esch T., Duncan C., Heldens W., Marconcini M., Pettorelli N., Rabeil T., Wegmann M.

15:10 Coffee Break

16:00–16:18: ISRSE36-210

Discrete versus continuous spatial representation of habitats for modeling distribution patterns of avifauna
Sheeren D., Lefevre S., Bonthoux S.

16:18–16:36: ISRSE36-523

Sensor requirements for biodiversity research. The role of spatial and spectral resolution in mapping habitat of zoological communities
Leutner B. F., Wegmann M., Müller J., Bachmann M., Dech S.

16:36–16:54: ISRSE36-731

Scale dependency for assessment of biodiversity indicators from different remote sensing data sets
 Ghosh A., **Faßnacht F.**, Dawar S., Dees M., Maack J., Koch B.

16:54–17:09: ISRSE36-752

High resolution mapping of chimpanzee habitat suitability
 Jantz S., Pinteá L., Nackoney J., **Hansen M.C.**

BIOD-5 Wildfires

Thursday, 14 May 2015 11:00–12:30

Lecture Room: Beijing (B05-06)

11:00–11:18: ISRSE36-101

Remote Sensing of High Temperature Events by the FireBird Mission
Lorenz E.

11:18–11:36: ISRSE36-466

Mapping fuel loads in the Brazilian protected areas of the Cerrado in support of integrated fire management
Franke J., Dias P. A., Beatty R., Hoffmann A.A., Cândido P. De A., Melchiori A.E., Siegert F., Buss P.

11:36–11:54: ISRSE36-667

Estimating Fire Radiative Energy (FRE) and fuel consumption for single fire events using MODIS Fire Radiative Power (FRP) and statistical modelling
Ruecker G., Leimbach D., Kuechenhoff H., Alkaya L., Linne S., Guenther F., Windmann M.

11:54–12:12: ISRSE36-751

NASA applied science program - Wildfires: Driving Research to Operations
Ambrosia V., Friedl L., Soja A.

12:12–12:30: ISRSE36-526

Understanding the role of vegetation fires in land cover change dynamics in Eastern Africa
Palumbo I., Temperley W., Graziano M., Brink A.

BIOD-8 Land cover change mapping

Thursday, 14 May 2015 14:00–17:30

Lecture Room: Sydney (B07-08)

14:00–14:15: ISRSE36-16

Land cover change analysis in Mexico using

30m Landsat and 250m MODIS data

Colditz R., Llamas R., Ressler R.

14:15–14:30: ISRSE36-274

Drivers of deforestation in South America: first results from a pan-tropical remote sensing analysis
De Sy V., Herold M., Beuchle R., Besnard S., Clevers J., Lindquist E., Verchot L., Wijaya A.

14:30–14:45: ISRSE36-128

ASTER and Worldview-2 satellite data comparison for identification of groundwater salinization effects on the Classe pine forest vegetation (Ravenna, Italy)
De Giglio M., Barbarella M., Greggio N., Panciroli L.

14:45–15:00: ISRSE36-212

Satellite-based drought monitoring in Kenya in an operational setting
Klisch A., Atzberger C., Luminari L.

15:00–15:15: ISRSE36-296

Development of Drought Monitoring System Based on Satellite Data and Ground Measurements
 Kokalj Z., Zibert J., Rogelj P., Irsic Zibert M., Muri B., **Ostir K.**

15:15–15:30: ISRSE36-229

High Resolution, Wide Area Detection of Anthropogenic Forest Change Using RADARSAT-2
Staples G., van der Kooy M

15:30 Coffee Break**16:00–16:15: ISRSE36-311**

Mapping the distribution of a rapidly spreading alien invasive plant (*Melia azedarach*) using remote sensing
Gebreslasie M., Gairola S., Proche? ?, Rocchini D

16:15–16:30: ISRSE36-698

Vegetation Height Estimation Near Power transmission poles Via satellite Stereo Images using 3D Depth Estimation Algorithms
 Qayyum A., **Malik A. S.**, Saad M. N. M., Iqbal M., Abdullah F., Rahseed W., Abdullah T. A. R. T., Ramli A. Q.

16:30–16:45: ISRSE36-447

Potential improvement for forest cover and forest degradation mapping with the forthcoming Sentinel-2 program
HojasGascon L., Eva H., Belward A., Garcia Haro J., Hagolle O., Ceccherini G., Cerutti P.

16:45–17:00: ISRSE36-561

Tree cover patterns and changes in the West Sudanian Savanna and observed socio-economic impacts
Gessner U., Knauer K., Kuenzer C.

17:00–17:15: ISRSE36-487

Quantifying biophysical effects of land use change at global scale with satellite Earth observations
Duveiller G., Cescatti A.

17:15–17:30: ISRSE36-465

Towards forest change tracking using Sentinel 1, 2 and 3 satellites
Verbesselt J., DeVries B., Dutrieux L., Reiche J., Herold M.

BIOD-9 Wetlands and coastal observations

Thursday, 14 May 2015 11:00–12:30

Lecture Room: Sydney (B07-08)

11:00–11:15: ISRSE36-191

Detection and characterization of Colombian wetlands using Alos Palsar and MODIS imagery
Estupinan-Suarez L.M., Florez-Ayala C., Quinones M.J., Pacheco A.M., Santos A.C.

11:15–11:30: ISRSE36-382

Sentinel-2 time series to map threats in wetlands - results of ESA's DUE project GlobWetland II
Weise K., Paganini M., Schwarz M., Tobiaschus M., Faber M.

11:30–11:45: ISRSE36-385

Everglades Wetland Classification using object-based approach with Terra-SAR and RapidEye satellite data
Kim H.-O., Hong S.-H., Wdowinski S., Feliciano E.

11:45–12:00: ISRSE36-472

Study of territorial distribution of the mangrove, Terraba-Sierpe National Wetlands 2012
 Acuña Piedra J.F., **Vargas C.**

12:00–12:15: ISRSE36-679

Catchment properties in the Kruger National Park derived from the new TanDEM-X Intermediate Digital Elevation Model (IDEM)
Baade J., Schumilius C.

12:15–12:30: ISRSE36-736

Earth Observation in Support of Sustainable Water Resource Management in Africa The

TIGER initiative - Looking After Water in Africa
Koetz B., Bila M., Chibuye H., Hailu E.G., Mufeti P., Palazzo F., Phiri Z., rajah C., Tottrup C., Tumbulto J.W., Vekerdy Z., Walli A.

DATA – Data and information systems and spatial data infrastructure**DATA-3 Earth Observation data processing and information systems**

Thursday, 14 May 2015 11:00–15:15

Lecture Room: Stresa (B09)

11:00–11:18: ISRSE36-143

Automatic Processing of Chinese GF-1 Wide Field of View Images
Zhang Y. J.

11:18–11:36: ISRSE36-161

The Swarm Archiving Payload Data Facility, an Instance Configuration of the ESA Multi-Mission Facility
Pruin B., Martini A., Shanmugam P., Lopes C.

11:36–11:54: ISRSE36-415

Automatic Near-Real-Time Image Processing Chain for Very High Resolution Optical Satellite Data
Ostir K., Cotar K, Marsetic A, Pehani P, Perse M, Zaksek K, Zaletejl J, Rodic T

11:54–12:12: ISRSE36-131

Copernicus Data and Exploitation Infrastructure - a German national collaborative ground segment
Keuck V., Hoffmann J., Staudenrausch H.

12:12 Lunch Break**14:00–14:18: ISRSE36-484**

Basic software tools to remotely manage massive hyperspectral data arrays in distributed information infrastructure
Savorskiy V., Lupyan E., Balashov I., Ermakov D., Kuznetsov O., Panova O., Tolpin V., Chernushich A., Uvarov I.

14:18–14:36: ISRSE36-593

Cloud Optimized Image Format and Compression
Becker P., Plesea L., Maurer T.

14:36–14:54: ISRSE36-601

Software framework for building modern Earth-observation data processing and archiving environments
Recher St., Scheidgen P.

14:54–15:12: ISRSE36-605

New Methods in Acquisition, Update and Dissemination of Nature Conservation Geodata - Implementation of an Integrated Framework
Tintrup gen. Suntrup G., Jalke T., Streib L., Keck N., Nieland S., Moran N., Kleinschmit B., Trapp M.

DATA-5 Data applications and quality assessment

Thursday, 14 May 2015 16:00–17:30

Lecture Room: Stresa (B09)

16:00–16:15: ISRSE36-75

Geomatics for Mapping of Groundwater Potential Zones in Northern Part of the United Arab Emirates - Sharjah City
Al-Ruzouq R., Shanableh A., Merabtene T.

16:15–16:30: ISRSE36-98

Validation of aerosol estimation in atmospheric correction algorithm ATCOR
Pflug B., Main-Knorn M., Makarau A., Richter R.

16:30–16:45: ISRSE36-256

A 15 year climatology of spectral BRDF derived from MODIS for a priori optimal estimation of global surface albedo within the EU-FP7 QA4ECV project.
Kharbouche S., Muller J.-P., Lewis P.

16:45–17:00: ISRSE36-305

A Dynamic Threshold Cloud Detecting Approach based on the Brightness Temperature from FY-2 VISSR Data
Xiang D., Tan D., Wen D., Wang D.

17:00–17:15: ISRSE36-38

Harmonisation Initiatives of Copernicus Data Quality Control
Vescovi F.D., Lankester T., Coleman E., Ottavianelli G.

17:15–17:30: ISRSE36-458

Atmospheric correction methodology for Aster, Rapideye, Spot 2 and Landsat 8 images with software envi flaash module
Aguilar H., Mora R., **Vargas C.**

MARI – Marine and coastal environment, resources and dynamics**MARI-1 Maritime awareness and traffic observation**

Thursday, 14 May 2015 11:00–12:15

Lecture Room: Buenos Aires (A06)

11:00–11:18: ISRSE36-130

Long-term Marine Traffic Monitoring for Environmental Safety in the Aegean Sea
Giannakopoulos T., Gyftakis S., **Charou E.**, Perantonis S., Nivolianitou Z., Koromila I., Makrygiorgos A.

11:18–11:36: ISRSE36-217

Tracking Vessels to Illegal Pollutant Discharges Using Multi-source Vessel Information
Busler J., Wehn H, Woodhouse L

11:36–11:54: ISRSE36-230

Assessment of C,L,X-band Spaceborne SAR for Maritime Domain Awareness
Staples G., Hurley J, Logan T

11:54–12:12: ISRSE36-433

Near Real Time Applications for Maritime Situational Awareness
Schwarz E., Krause D., Berg M., Daedelow H., Maass H.

PROG – National, regional and international programs including education and outreach**PROG-7 Outlook on commercial Earth Observation Systems**

Thursday, 14 May 2015 11:00–12:30

Lecture Room: Berlin (C01)

11:00–11:15: ISRSE36-113

Earth Observation, State of Play and Future Prospects
Topham R., **Keith A.**, Revillon P.

11:15–11:30: ISRSE36-725

Breaking the Super-Spectral Imaging Barrier with Worldview-3
Marchisio G., Johnston C., Tusk C., Baugh W., Gueguen L., Ouzounis G., Marchetti A.

11:30–11:45: ISRSE36-361

Earth Observation Activities from Airbus Defence and Space
Menking M.

11:45–12:00: ISRSE36-516

BlackBridge's RapidEye+ Strategy
Johnson R.

12:00–12:15: ISRSE36-724

Pull vs. Push: How OmniEarth Delivers Better Earth Observation Information to Subscribers
Fish C., **Slagowski S.**, Dyrud L., Fentzke J., Hargis B., Steerman M.

12:15–12:30: ISRSE36-727

UrtheCast Second-Generation Earth Observation Sensors
Beckett K.

SENS – Airborne and innovative remote sensing platforms and techniques**SENS-1 UAS for resource assessment**

Thursday, 14 May 2015 14:00–17:15

Lecture Room: Berlin (C01)

14:00–14:18: ISRSE36-301

Enabling Earth Science Measurements with NASA UAS Capabilities
Albertson R., Schoenung S, Fladeland M, Cutler F, Tagg B

14:18–14:36: ISRSE36-260

Unmanned Aircraft for Wildland Fire Science and Operations: Classification and Considerations for Use
Watts A., Ambrosia V., Hunkley E.

14:36–14:54: ISRSE36-437

Mission adaptive UAS platform for Earth science and resource assessment
Dunagan S., Fladeland M., Ippolito C., Knudson M., Young Z.

14:54–15:12: ISRSE36-525

Utilization of remotely-piloted aircraft systems for operations and research&8212;RxCADRE 2012
Zajkowski T.

15:12–15:30: ISRSE36-354

Virtualizing super-computation on-board UAS
Salamí E., Soler J.A., Cuadrado R., **Barrado C.**,

Pastor E.

15:30 Coffee Break**16:00–16:18: ISRSE36-565**

Gyrocopter-based remote sensing platform
Weber I., Jenal A., Kneer C., Bongartz J.

16:18–16:36: ISRSE36-517

Unmanned Aerial Vehicles (UAVs) for Ground Truth Data Collection for Land Cover Change Estimation of Primate Habitats
Szantai Z., Wich S., Koh L.P.

16:36–16:54: ISRSE36-190

Unmanned airborne systems blur the line between field survey and remote sensing
Joyce K.E., Maier S.W

16:54–17:12: ISRSE36-663

Detailed and highly accurate 3D-models of high mountain areas by the MACS-Himalaya aerial camera platform
Brauchle J., Hein D., Berger R.

SENS-9 Approaches to optical data quality

Thursday, 14 May 2015 11:00–11:55

Lecture Room: Honolulu (A05)

11:00–11:18: ISRSE36-74

Calibration of landsat-8 tirs bands for environment change detection
Caselles V.

11:18–11:36: ISRSE36-400

Validation of spectral continuity between PROBA-V and SPOT-VEGETATION global daily datasets
Dierckx W., Swinnen E., Kempeneers P.

11:36–11:54: ISRSE36-419

Comparison of unsupervised vegetation classification methods from VHR images after shadows removal by innovative algorithms
Movia A., Beinat A., Crosilla F.

SOCI – Socioeconomic issues including health, urbanization and human heritage

SOCI-1 Cultural heritage and Earth Observation

Thursday, 14 May 2015 14:00–17:30

Lecture Room: Tromsø (A03)

14:00–14:18: ISRSE36-84

Innovation Technologies and Applications for Coastal Archaeological sites
DI IORIO A., BILIOURIS D., HANSEN L.B., BAGNI M., Guzinski R

14:18–14:36: ISRSE36-363

Accessibility maps to selected archaeological and touristic sites in south Sinai, Egypt using satellite images
Elbeih S., Zaghoul E.

14:36–14:54: ISRSE36-478

Automated 3D architecture reconstruction from photogrammetric structure-and-motion: A case study of the One Pilla pagoda, Hanoi, Vietnam
Nguyen D., Tran G., **To T.**

14:54–15:12: ISRSE36-508

Remote Sensing Archaeological Study of the Han Great Wall Defence System in Ancient Dunhuang, NW China
Luo L., Liu J., Wang X.Y., Guo H.D.

15:12–15:30: ISRSE36-529

Comparison of two Satellite Imaging Platforms for Evaluating Sand Dune Migration in the Ubari Sand Sea (Libyan Fazzan)
Els A., Merlo S, Knight J

15:30 Coffee Break

Thursday, 14 May 2015 16:00–17:30

Lecture Room: Tromsø (A03)

16:00–16:18: ISRSE36-644

Unmanned Aerial Systems and Spectroscopy for Remote Sensing Applications in Archaeology
Themistocleous K., Agapiou A., Cuca B, Hadjimitsis D.G.

16:18–16:36: ISRSE36-669

Contributions of Remote Sensing for Governance of Natural Resources and Environmental Issues in Darfur, Sudan
Küpper A.

16:36–16:54: ISRSE36-42

Integrated RS, GIS and GPS approaches to archaeological prospecting in the Hexi Corridor, NW China: a case study of the royal road to ancient Dunhuang
Wang X.

16:54–17:12: ISRSE36-225

Novel platforms and applications for ground-penetrating radar
Collins M.

17:12–17:30: ISRSE36-681

Study of City Landscape Heritage Using Lidar Data and 3d-City Models
Rubinowicz P., Czyżska K.

WACY – Water Cycle

WACY-1 Earth Observation for the Monitoring of Natural Resources in Large River Delta Areas

Thursday, 14 May 2015 14:00–15:12

Lecture Room: Buenos Aires (A06)

14:00–14:18: ISRSE36-63

Unsupervised Terrain and Land Cover Classification of the Mackenzie Delta
Ullmann T., Schmitt A., Roth A., Duffe J., Dech S., Hubberten H. -W., Baumhauer R.

14:18–14:36: ISRSE36-695

Technology targeting for sustainable intensification of crop production in the Delta region of Bangladesh
Schulthess U., Krupnik T. J., Ahmed Z.U., McDonald A.J.

14:36–14:54: ISRSE36-5

Soil Degradation Assessment in North Nile Delta Using Remote Sensing and GIS Techniques
El Nahry A.H., Ibraheim M.M., El Baroudy A.A.

14:54–15:12: ISRSE36-82

Deriving water surfaces with WaMaPro - Observation of water surface dynamics of the Yellow River Delta
Huth J., Ahrens M., Kuenzer C.

WACY-2 Remote sensing of rivers and water bodies

Thursday, 14 May 2015 16:00–17:12

Lecture Room: Buenos Aires (A06)

16:00–16:18: ISRSE36-23

Hydrological characterization of the Usumacinta River Basin towards the preservation of environmental services
Tapia_Silva F-O., Contreras_Silva A-I., Rosales Arriaga E-R.

16:18–16:36: ISRSE36-309

A comparison between optical and SAR imagery for estimating discharge from river width
Elmi O., Tourian M J., Sneeuw N.

16:36–16:54: ISRSE36-364

Determining and Monitoring the Water Quality of Kizilirmak River of Turkey: First Results
Gürsoy Ö., Birdal A. C., Özyonar F., Kasaka E.

16:54–17:12: ISRSE36-547

Remote sensing of surface water dynamics from over two decades of seasonally continuous Landsat data
Tulbure M.G., Broich M.G., Kingsford R., Lucas R., Keith D.

Friday, 15 May 2015

Plenary & Technical Sessions

Time	Kind of Session	C01 Berlin	B05-06 Beijing	B07-08 Sydney	B09 Stresa	A03 Tromsø	A04 Cape Town	A05 Honolulu	A06 Buenos Aires
9:00	Technical	PROG-4	BIOD-4			SOCI-3	AGRI-8	SENS-10	WACY-3
10:30		Coffee Break							
11:00	Plenary	PLEN-5							
12:30	Closing Ceremony	CLOSE							

Friday, 15 May 2015

AGRI – Agriculture and food security

AGRI-8 Quantifying and understanding hydro-climatic dynamics on agricultural land

Friday, 15 May 2015 09:00–10:15

Lecture Room: Cape Town (A04)

09:00–09:18: ISRSE36-269

Comparison of L-Band and C-band Radar images in monitoring subsidence in agricultural area

Zohari M., Esmaili M., Motagh M., Mojaradi B

09:18–09:36: ISRSE36-326

A novel approach to estimate soil moisture under vegetation cover using imaging spectroscopy

Spengler D., Kuester T., Segl K., Itzerott S., Guanter L.

09:36–09:54: ISRSE36-502

Kernel Methods in Soil Moisture Estimation from Remotely Sensed Imagery - Case Studies

Stamenkovic J., Notarnicola C., Ferrazzoli P., Guerriero L., Tuia D., Greifeneder F., Thiran J-Ph.

09:54–10:12: ISRSE36-658

Mapping cropland parameters - Results from the Central Asian Water (CAWa) project

Conrad C., Löw F., Unger-Shayesteh K.

BIOD – Forests, biodiversity and terrestrial ecosystems

BIOD-4 Biodiversity and conservation

Friday, 15 May 2015 09:00–10:30

Lecture Room: Beijing (B05-06)

09:00–09:18: ISRSE36-147

Earth Observation from two perspectives - combining space borne animal tracking and environmental monitoring - a case study on storks and cities.

Flack A., Wikelski M., Safi K., Esch T., Taubenboeck H., Wegmann M.

09:18–09:36: ISRSE36-224

Modelling forage resources with airborne imaging spectroscopy: Implications for ungulate and ecosystem conservation

Schweiger A.K., Kneubühler M., Risch A.C., Schütz M., Haller R., Schaepman M.E.

09:36–09:54: ISRSE36-730

Satellite telemetry reveals site fidelity and rainfall event triggers of directed movement of Palearctic migrant in southern African savannas

Mendelsohn S., de Klerk H. M., Meyburgh B., Mendelsohn J.

09:54–10:12: ISRSE36-355

Satellite remote sensing of baleen whales; status and prospects

Fretwell P.T

10:12–10:30: ISRSE36-416

eHabitat: Modelling of habitats types and similarities in protected areas globally by means of remote sensing

Martínez-López J., Bastin L., Dubois G.

PROG – National, regional and international programs including education and outreach

PROG-4 Science applications related to spaceborne imaging spectroscopy missions

Friday, 15 May 2015 09:00–10:30

Lecture Room: Berlin (C01)

09:00–09:18: ISRSE36-209

The Potential of Imaging Spectroscopy Missions for Inland Water Quality Monitoring

Reusen I., Knaeps E., Sterckx S., De Keukelaere L., Bresciani M., Villa P., Giardino C., Schenk K., Heege T., Hunter P., Van der Zande D., Ruddick K., Dall'Omo G., Simis S., Groom S., Présing M., Razinkovas-Baziukas A., Diana Vaiščiūtė D.

09:18–09:36: ISRSE36-91

Imaging Spectroscopy: a new era for biodiversity science and conservation

Somers B., Asner G.P.

09:36–09:54: ISRSE36-157

Spaceborne imaging spectroscopy for atmospheric sciences

Fischer J., Hollstein A.

09:54–10:12: ISRSE36-279

Potential of spaceborne imaging spectroscopy for geological /mining activities

Rivard B., Rogge D., Laakso K.

10:12–10:30: ISRSE36-672

Potential of spaceborne imaging spectroscopy for soil properties mapping and expected accuracy

Chabrilat S., Foerster S., Schmid T., Ben-Dor E., Segl K

SENS – Airborne and innovative remote sensing platforms and techniques

SENS-10 Optical airborne and space systems

Friday, 15 May 2015 09:00–10:30

Lecture Room: Honolulu (A05)

09:00–09:18: ISRSE36-37

Limits to the detectability of flowering plants within semi-arid savannas using 0.6-meter airborne hyperspectral data

Landmann T., Makori D., Piironen R., Abdel-Rahman E., Kyalo R., Pellikka P., Raina S.R.

09:18–09:36: ISRSE36-158

Alignment of hyperspectral imagery and full-waveform LiDAR data for visualisation and classification purposes

Miltiadou M., Warren M. A., Grant M., Brown M.

09:36–09:54: ISRSE36-179

Initial Checkout Results of the Compact Infrared Camera (CIRC) for earth observation

Kato E., Katayama H., Sakai M., Nakajima Y., Kimura T., Nakau K., Tonooka H.

09:54–10:12: ISRSE36-341

Airborne Camera System for real-time Applications - Support of a national Civil Protection Exercise

Gstaiger V., Römer H., Rosenbaum D., Henkel F.

10:12–10:30: ISRSE36-633

Remote sensing of large scale Methane emission sources with the Methane Airborne MAPper (MAMAP) instrument over oil fields and landfills in California - Initial results from COMEX

Bovensmann H.

SOCI – Socioeconomic issues including health, urbanization and human heritage

SOCI-3 Mapping urbanisation from air & space - practical cases

Friday, 15 May 2015 09:00–10:15

Lecture Room: Tromsø (A03)

09:00–09:18: ISRSE36-197

Identification of urban boundaries based on remote sensing and geographic information system: a case in Wuhan

Li y., zhan qm

09:18–09:36: ISRSE36-328

Monitoring Commercial and Industrial Brownfields as Urban Resource and Land Use Option - The Case of Leipzig, Germany

Banzhaf E.

09:36–09:54: ISRSE36-54

Using Light-at-Night (LAN) Satellite Data for Identifying Clusters of Economic Activities in Europe

Rybnikova N.A., Portnov B.A.

09:54–10:12: ISRSE36-668

Earth Observation and Development Banks - view from a service provider perspective on recent developments

Fockelmann R.

WACY – Water Cycle

WACY-3 Approaches in water remote sensing

Friday, 15 May 2015 09:00–10:30

Lecture Room: Buenos Aires (A06)

09:00–09:18: ISRSE36-456

Annual mapping of water surfaces at 25 cm in a regional monitoring context

d'Andrimont R., Marlier C., Defourny P.

09:18–09:36: ISRSE36-514

Adapting and improving resilience to climate change in communities (moravian community as a pilot), by creating new capabilities based on the implementation of a new water culture; protection and management of natural resources

Campos Gallo A.

09:36–09:54: ISRSE36-582

Application of Earth Observation technologies for rural water management in Lower Austria

Vuolo F., Neugebauer N., Essl L.

09:54–10:12: ISRSE36-600

Brazilian inland water bio-optical dataset to support carbon budget studies in reservoirs as well as anthropogenic impacts in Amazon floodplain lakes: Preliminary results

Barbosa C.C.F., Novo E., Ferreira R., Carvalho L., Cairo C., Stech J., Alcantara E.

10:12–10:30: ISRSE36-652

Retrieving and evaluating water quality parameters of inland waters with Landsat 8 and Sentinel 2

Stelzer K., Brockmann C., Doerffer R., Ruescas A., Odermatt D.

Plenary Session

PLEN-5 Perspectives on the Future of Global Earth Observation

Friday, 15 May 2015 11:00–12:30

Lecture Room: Berlin (C01)

Michael Menking, Airbus Defence & Space

Ryan Johnson, Blackbridge

Matthew Hansen, University of Maryland

Steven Briggs, CEOS SIT

Jean-Noel Thepaut, ECMWF

Rolf Skatteboe, KSAT

Closing Ceremony

Friday, 15 May 2015 12:30–13:15

Lecture Room: Berlin (C01)

12:30–12:40

**Awards of the 36th ISRSE
Chuck Hutchinson, ICRSE**

12:40–12:55

**On the Future of ICORSE and ISPRS
Lawrence Friedl, NASA**

12:55–13:00

**Announcement of the XXIII ISPRS Congress
Lena Halounova**

13:00–13:05

Announcement of the 37th ISRSE

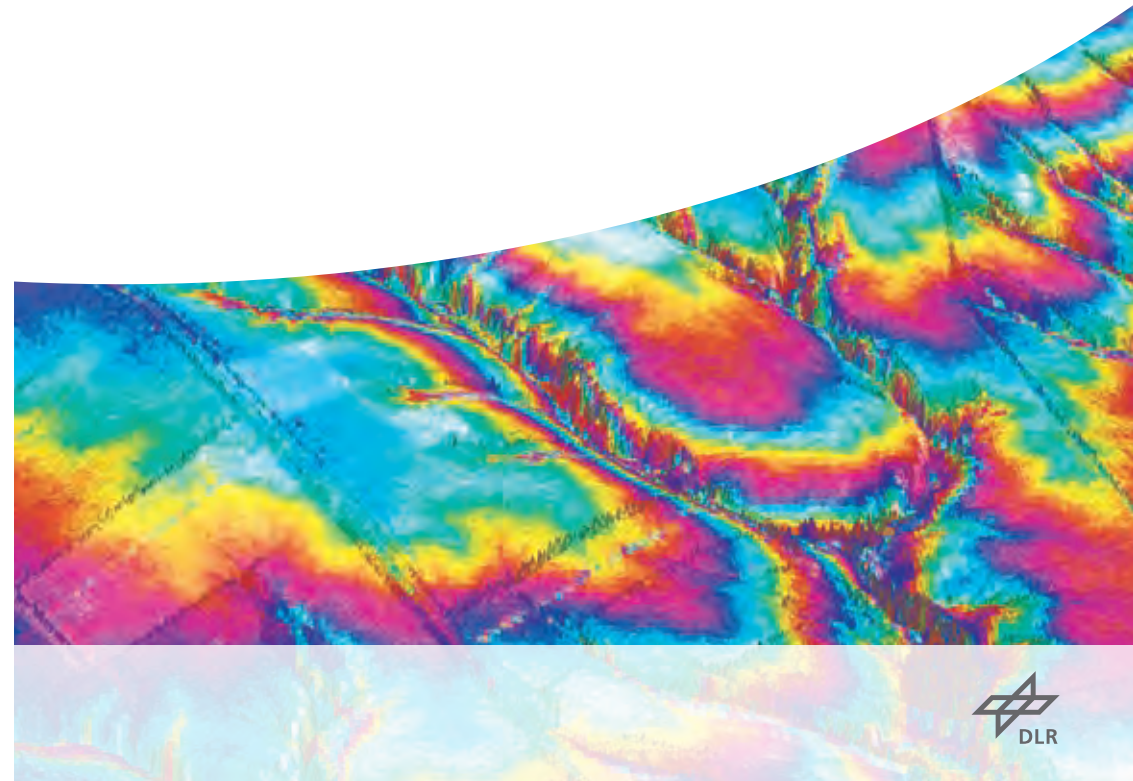
13:05–13:10

**Closing of the 36th ISRSE
Helmut Staudenrausch, DLR**



**The 36th International Symposium
on Remote Sensing of Environment**
11-15 May 2015, Berlin, Germany

Poster Programme



Monday, 11 May 2015**Attendance Time:** 15:30–18:00**DISA-P Natural disasters monitoring, warning and response****P1: ISRSE36-1**

Exposer Intensity, Vulnerability Index and Landscape Change Assessment In Olomouc, Czech Republic
Boori M.S., Vozenilek V., Choudhary K.

P2: ISRSE36-93

Enhancing DInSAR capabilities for landslide monitoring by applying GIS-based multicriteria filtering analysis
Beyene F., Knospes S., Busch W.

P3: ISRSE36-118

An approach for detecting changes related to natural disasters using Synthetic Aperture Radar data
Milisavljevic N., Closson D., Holecz F., Collivignarelli F., Pasquali P.

P4: ISRSE36-239

Combined use of SAR and optical data for environmental assessments around refugee camps in semiarid landscapes
Braun A., Hochschild V.

P5: ISRSE36-267

Using eCognition to automatically detect and map avalanche deposits from the spring 2009 avalanche cycle in the Tatra mts., Slovakia
Frauenfelder R., Lato M.J., Biskupi? M.

P6: ISRSE36-285

Assessment of active tectonics by quantifying geomorphological, geological and morphotectonics aspects. The case of Crete island, Greece
Argyriou A., Sarris A., Teeuw R.

P7: ISRSE36-289

Copernicus service in support of geohazard assessment and regional planning in the region Rhine-Moselle (Rhineland-Palatinate, Germany)
Wolf C.

P8: ISRSE36-302

The Potential Of Geomatics In The Realization Of A Map Of Desertification Sensitivity Southern Massif Belezma (Batna).
Hassen B.

P9: ISRSE36-340

Jamuna River Erosional Hazards, Accretion Annual Water Discharge — A Remote Sensing Gis Approach
Pahlowan E.U., Hossain A.T.M. S.

P10: ISRSE36-414

Damage Assessment for Disaster Relief Efforts Based on Multi-Source Remote Sensing Data
 Legeer B., **Bahr T.**

P11: ISRSE36-489

The effect of configuration on wildfire detection and background estimation
Mitchell S., Jones SD., Reinke K.

P12: ISRSE36-493

Analysis of landslide hazard area in Ludian earthquake based on Random Forests
 Jing/chun X., **Rui L.**, Hui-wen L., Zi-li L.

P13: ISRSE36-506

Multi-scale monitoring of landscape change after the 2011 tsunami
Hara K., Zhao Y., Harada I., Tomita M., Park J., Jung E., Kamagata N., Hirabuki Y.

P14: ISRSE36-538

Real Aperture Radar Interferometry - Practical Application of a Monitoring System in Western Norway
Ekseth K.

P15: ISRSE36-554

Application of polarimetric optimization methods in surface deformation monitoring using InSAR
Esmaili M.

P16: ISRSE36-586

Multi-sensor approach to address land subsidence in Mashhad, northeast Iran
Zohari M., Motagh M., Esmaili M., Mojaradi B.

P17: ISRSE36-704

Impact of climate and analysis of desertification processes in semi arid land in Algeria: using data of Alsat-1 and Landsat
Zegrar A.

SOCI-P Socioeconomic issues including health, urbanization and human heritage**P18: ISRSE36-270**

Remote sensing and quantification of the Urban Heat Island in Morocco; Impact on Climate Surface
FATHI N.

P19: ISRSE36-428

Urban Density Indices Using Mean Shift-Based Upsampled Elevation Data
Charou E., Gyftakis S., Bratsolis E., Papadopoulou Th. D., Tsenoglou T., Vassilas N.

P20: ISRSE36-474

Association between Urbanization and Air Temperature from a 3-D Perspective using Remote Sensing
Wu C.-D., Lung S.C.-C.

P21: ISRSE36-540

Identification of paleolake stages by multisensoral remote sensing
Bachofer F., Quénéhervé G., Märker M., Hochschild V.

P22: ISRSE36-719

A novel approach for anthropogenic heat flux estimation from space
Chrysoulakis N., Esch T., Gastellu-Etchegorry J.P., Grimmond C.S.B., Parlow E., Lindberg F., Del Frate F., Klostermann J., Mitraka Z.

DATA-P Data and information systems, and spatial data infrastructure**P23: ISRSE36-102**

WPS-based technology for client-side remote sensing data processing
 Kazakov E., Terekhov A., Kapralov E., **Panidi E.**

P24: ISRSE36-117

SAR Interferogram Filtering Method Based on Empirical Mode Decomposition
Song R., Guo H.D., Liu G.

P25: ISRSE36-316

Breaking the super-spectral imaging barrier with WorldView-3
Marchisio G., Johnston C., Tusk C., Baugh W., Gueguen L., Ouzounis G., Marchetti A.

P26: ISRSE36-370

Comparison among operators for detecting and/or extracting or roads using the matlab software and the cartomorph software
 Chaves C., **Silva E.**, Santos A.

P27: ISRSE36-418

Complex data analysis in the cloud with the ENVI / IDL Services Engine
 Bahr T., **Meininger M.**

P28: ISRSE36-459

Use and application of photogrammetry software to develop geospatial products. Case study: Tárcoles river basin, Costa Rica
Vargas C.

P29: ISRSE36-463

Bio-optical data integration based on a 4 D database system approach
Imai N.N., Shimabukuro M. H., Carmo A. F. C., Alcântara E. H., Rodrigues T. W. P., Watanabe F. S. Y.

P30: ISRSE36-464

Costa Rica experience of a geomatic, airborne and remote sensing data laboratory
Miller C.

P31: ISRSE36-498

Solid Waste Management in Greater Shillong Planning Area (GSPA) Using Spatial Multi-Criteria Decision Analysis for Site Suitability Assessment
Mipun B., Mondal M., Hazarika R.

P32: ISRSE36-641

Shadow detection improvement using spectral indices and morphological operators in high resolution images from urban areas
Azevedo S. C., Silva E. A., Pedrosa M. M.

PROG-P National, regional and international programs including education and outreach

P33: ISRSE36-12

Educational strategies for building a diverse geospatial technology workforce
Vlahovic G., Malhotra R.

P34: ISRSE36-121

Remote Sensing Tertiary Education Meets High Intensity Interval Training
Joyce K.E., White B.

P35: ISRSE36-620

Building capacity to use NASA Earth Observations through online and hands-on training
Prados A., Gupta P., Mehta A., Schmidt C., Blevins B., Kuss A., Barbato D.

P36: ISRSE36-632

Global Change Research at the DLR Earth Observation Center Using Copernicus Sentinel Data
Klein D., Schreier G., Dech S.

P37: ISRSE36-685

Creation of a high-resolution product CLC2006 backdating by a backward look from the digital land cover model DLM-DE2009 to 2006 - a contribution to the German CORINE Land Cover 2012 project within a bottom-up approach
Keil M., Esch T., Feigenspan S., Marconcini M., Metz A., Ottinger M., Zeidler J.

Tuesday, 12 May 2015

Attendance Time: 15:30–18:00

BIOD-P Forests, biodiversity and terrestrial ecosystems

P1: ISRSE36-11

GLOBIL: WWF's Global Observation and Biodiversity Information Portal
Shapiro A., Nijsten L., Schmitt S, Tibaldeschi P

P2: ISRSE36-20

Multitemporal Classification to Evaluate a Transitional Forest Landscape, Brazil
Bicudo da Silva RF, Batistella M, Moran EF, LU D

P3: ISRSE36-67

Feature extraction from geoeye-1 stereo pairs data for forested area
Stournara P., Georgiadis C., Kaimaris D., Tsakiri-Strati M., Tsioukas V.

P4: ISRSE36-68

Tree number estimation with the use of VHR natural colour orthophotos over a heterogeneous landscape in northern Greece
Stournara P., Tsakiri-Strati M., Siachalou S., Doxani G., Mallinis G., Tsioukas V.

P5: ISRSE36-127

Optimization of forest age-dependent light-use efficiency and its implications on climate-vegetation interactions in china
Li Z., Zhou T.

P6: ISRSE36-133

Sar-optical synergy in savanna ecosystem fractional vegetation cover mapping
Odipo V. O.

P7: ISRSE36-146

Assessing land-use and land-cover dynamics for the Yellow River Basin in China
Wohlfart C., Kuenzer C.

P8: ISRSE36-153

The Natura 2000 habitat monitoring service of North Rhine-Westphalia (Germany): a new tool for monitoring authorities
Buck O., Hinterlang D., Mütterthies A., **Rühl J.**

P9: ISRSE36-156

Remote Sensing of vegetation dynamics in West Africa: Improved satellite time series for phenological analyses
Knauer K., Gessner U., Dech S., Kuenzer C.

P10: ISRSE36-219

Monitoring the large urban Agglomerations growths by using object-oriented SVM method from 1980s to 2015 based on remote sensing data
Wang S., Sun Z., Jiang T.

P11: ISRSE36-223

Landuse mapping and forest area change detection using IRS satellite Imagery (Case study: Northern forests of Iran)
Pir Bavaghar M.

P12: ISRSE36-265

Land-use and land-cover dynamics monitored by NDVI multitemporal analysis in a selected southern Amazonian area (Brazil) for the last three decades
Borini Alves D., Pérez-Cabello F., Rodrigues Mimbreno M.

P13: ISRSE36-272

Performance of the Enhanced Vegetation Index to Detect Inner-annual Dry Season and Drought Impacts on Amazon Forest Canopies
Brede B., Verbesselt J, Dutrieux L, Herold M

P14: ISRSE36-277

A BiomeBGC-based Evaluation of Dryness Stress of Central European Forests
Buddenbaum H., Hientgen J., Dotzler S., Werner W., Hill J.

P15: ISRSE36-283

Use of ALS data to estimate stand-level structural variables in Aleppo pine forest
Montealegre A. L., Lamelas M.T., de la Riva J., Garcia-Martin A., Escibano F.

P16: ISRSE36-292

An Image Segmentation Approach for Improving the Accuracy of Individual Crown Delineation
Amiri N., Skidmore A., Hussin Y., Wang T., Khosravipour A.

P17: ISRSE36-298

Reconstructing of pre-agricultural expansion vegetation cover of Ethiopia
Hailu B. T., Maeda E.E., Heiskanen J., Pellikka P.

P18: ISRSE36-303

Changing land use patterns and desertification in southern Nemencha (Algeria)
Hassen B.

P19: ISRSE36-327

Detection of Forest Calamities from Multi-temporal and Multi-polarized SAR Imager
Wendleder A., Schmitt A., Heiden U.

P20: ISRSE36-329

Monitoring the Urban Tree Cover for Urban Ecosystem Services - The Case of Leipzig, Germany
Banzhaf E.

P21: ISRSE36-334

Vegetation indices and surface temperature for remote sensing in a Brazilian semi-arid watershed
Coelho V. H. R., Silva B. B., Montenegro S. M. G. L., **Almeida C. N.**, Oliveira L. M. M., Gusmão A. C. V. L.

P22: ISRSE36-387

Research on Monitoring the Wetland Landcover Change Based on the Moderate Resolution Remote Sensing Image
Zhou M., Yuan X.h., Sun L.m

P23: ISRSE36-390

Does topographic normalization of Landsat images improve fractional tree cover mapping in tropical mountains?
Adhikari H., Heiskanen J., Maeda E. E., Pellikka P. K. E.

P24: ISRSE36-413

Improved estimation of above ground biomass in Sudanian woodlands using multi-temporal Landsat-8 imagery and texture metrics
Karlson M.

P25: ISRSE36-423

Comparison of field and airborne laser scanning based crown cover estimates across land cover types in Kenya
Heiskanen J., Korhonen L., Hietanen J., Heikinheimo V., Schäfer E., Pellikka P. K. E.

P26: ISRSE36-427

Quantification of biomass variability due to different environmental factors in Kalimantan (Indonesia) based on airborne LiDAR data
Konecny K.

P27: ISRSE36-442

A long-term perspective on deforestation rates in the Brazilian Amazon
Velasco Gomez M.D., Beuchle R., Shimabukuro Y., Grecchi R., Simonetti D., Eva H.D., Achard F.

P28: ISRSE36-443

Modelling of Habitat Types in Karst Landscape with High Resolution Satellite Imagery and Digital Terrain Model
Breg Valjavec M., Cigli? R., O'tir K., Ribeiro D.

P29: ISRSE36-457

Dynamic soil erosion assessment using NDVI variations for the USLE's C factor
Bonifaz R.

P30: ISRSE36-460

Applications of Photogrammetry for Analysis of Forest Plantations. Preliminary study: Analysis of individual trees
Mora R., Barahona A., Aguilar H.

P31: ISRSE36-488

Downscaling sun-induced chlorophyll fluorescence from 0.5 to 0.05 decimal degrees at global scale
Duveiller G., Cescatti A.

P32: ISRSE36-490

Potential of Data Fusion Approach on Accurate Estimation on Long-term Grassland Biomass
Zhang B. H., **Zhang L.**, Wang X., Chai S. T.

P33: ISRSE36-503

Forest Cover Change and Soil Erosion in Toledo's Rio Grande Watershed
Chicas S., Omine K.

P34: ISRSE36-507

Using the Hybrid model to simulate typhoon-induced litterfall in a subtropical forest
Wang H.-C., Friend A., Huang C.

P35: ISRSE36-515

Seasonal variation of land cover classification accuracy of Landsat 8 images in Burkina Faso
Liu J., Heiskanen J., Aynekulu E., Pellikka P.K.E.

P36: ISRSE36-555

Advanced satellite-based phenology monitoring: a case study of semi-arid grasslands in South Africa
Parplies A., Dubovyk O., Tewes A., Oomen R., Schellberg J., Mund J.-P.

P37: ISRSE36-567

Urban and peri-urban forestry in the face of climate change in Cameroon: challenges and new perspectives for sustainability
Chekuimo G. H.

P38: ISRSE36-574

Does a post-stratification of ground units improve the forest biomass estimation by remote sensing data
Latifi H., Fassnacht F., Hartig F., Berger Ch., Hernández J., Corvalán P., Koch B.

P39: ISRSE36-580

Erosion Modelling In A Mediterranean Subcatchment Under Climate Change Scenarios Using Pan-European Soil Erosion Risk Assessment (PESERA)
Cilek A., Berberoglu S., Kirkby M., Irvine B., Donmez C., Erdogan M.A.

P40: ISRSE36-594

Tropical Forest Remote Sensing Services for the Democratic Republic of Congo inside the EU FP7 ReCover Project (Final Results 2000-2012)
Haarpaintner J., de la Fuente Blanco D., Enßle F., Datta P., Mazinga A., Singa C., Mane L.

P41: ISRSE36-597

Mapping of active raised bogs with an iterative one-class classification approach
Mack B., Stenzel S., Feilhauer H., Schmidlein S., Waske B.

P42: ISRSE36-598

Monitoring Pinus Radiata plantations using multitemporal RapidEye images -A case Study from New South Wales, Australia-
Magdon P., Kleinn C.

P43: ISRSE36-602

The global financial crisis and the Congo basin's forests: adaptation and sustainability to climate change
Chekuimo G. H.

P44: ISRSE36-630

Random forest classification for monitoring bush encroachment in a South-African savannah with Landsat and ancillary data
Symeonakis E., Higginbottom T.

P45: ISRSE36-642

An automatic workflow based system to download, process and analyze remote sensing information: creating knowledge to foster environmental decision making
Bonet F., Pérez-Pérez R., Pérez-Luque A., Zamora R., Sonnenschein R., Asam S.

P46: ISRSE36-653

Characterising forest succession stage and bird community with analysis of Lidar-based forest structure
Bae S., Mueller J., Lee D.

P47: ISRSE36-655

Mass Wasting Processes on the Ethiopian Highlands - How Multisensor Remote Sensing Methods Provide Valuable Input for Susceptibility Modelling
Hochschild V., Kropacek J., Maerker M., Schillaci C.

P48: ISRSE36-662

Non-destructive estimation of foliar carotenoid content of tree species using merged vegetation indices
Fassnacht F.E., Stenzel S., Gitelson A.

P49: ISRSE36-676

Environmental assessment of Mangrove communities in Tarut Bay, Eastern Arabian Peninsula, based on multidisciplinary approach
Al-Ali A. M., Del Campo A. G., Rocha C.

P50: ISRSE36-689

Using the Landsat data archive to assess long-term regional forest dynamics assessment in Eastern Europe, 1985-2012
Turbanova S., Potapov P., Tyukavina A., Krylov A., Hansen M.C., McCarty J.L., Radeloff V.C.

P51: ISRSE36-710

Enabling Intelligent Copernicus Services for Carbon and Water Balance Modeling of Boreal Forest Ecosystems - North State
Häme T., Mutanen T., Rauste Y., Antropov O., Molinier M., Quegan S., Kantzas E., Mäkelä A., Minunno F., Benediktsson J.A., Falko N., Árnason K., Stovold R., Haarpaintner J., Elsakov V., Rasinmäki J.

P52: ISRSE36-741

Ensemble-based Landscape Change Maps for the United States
Healey S., Cohen W., Yang Z., Brooks E., Hansen M., Hernandez A., Huang C., Hughes J., Kennedy R., Loveland T., Megown K., Moisen G., Schroeder T., Schwind B., Stehman S., Steinwand D., Vogelmann J., Woodcock C., Yang L., Zhu Z.

P53: ISRSE36-728

Scale dependency for assessment of biodiversity indicators from different remote sensing data
Aniruddha Ghosh AG., Barbara Koch BK

P54: ISRSE36-749

Evaluating temporal consistency of long-term global NDVI datasets for trend analysis
Tian F., Fensholt R., Verbesselt J., Grogan K., Horion S., Wang Y.

P55: ISRSE36-154

Utilizing the Global Land Cover 2000 reference dataset for a comparative accuracy assessment of 1 km global land cover maps
Schultz M, **Tsendbazazr N.E.**, Herold M, Jung M, Mayaux P, Goehman H

P56: ISRSE36-409

Land cover change impacts on biodiversity in Mt. Kilimanjaro savanna zone
Hurskainen P., Hemp A., Pellikka P.K.E., Pfeifer M.

Wednesday, 13 May 2015

Attendance Time: 15:30–18:00

MARI-P Marine and coastal environment, resources and dynamics**P1: ISRSE36-64**

Vessel classification in cosmo-skymed sar data using hierarchical feature selection
Makedonas A., **Theoharatos C.**, Tsagaris V., Anastasopoulos V., Costicoglou S.

P2: ISRSE36-194

Detection of ship targets in polarimetric sar data using 2d-pca data fusion
Theoharatos C., Makedonas A., Fragoulis N., Tsagaris V., Costicoglou S.

P3: ISRSE36-205

Seasonal Variation of Suspended Sediment Concentration at the Yangtze Estuary - Remote Sensing Observation and Numerical Simulation
Li Y., Li X.

P4: ISRSE36-308

Automatic extraction of tide-coordinated shoreline using open source software and Landsat imagery
Gonçalves G., Duro N., Sousa E., Figueiredo I.

P5: ISRSE36-332

Improving the altimeter derived geostrophic currents using high resolution Sea Surface Temperature images: A feasibility study.
Rio M.-H., Santoleri R., Griffa A., Piterberg L.

P6: ISRSE36-360

Development of a low cost photogrammetric tool for coastal monitoring and assessing the accuracy of shorelines obtained from Landsat imagery
Sanchez-Garcia E.,

P7: ISRSE36-369

Generating a long-term series of SST and chlorophyll-a for the coast of Ireland
Casal G., Furey T., Dabrowski T., Nolan G.

P8: ISRSE36-451

Distribution and dynamics of intertidal geo-morphological structures and habitats - application of TerraSAR-X data for environmental monitoring of the Wadden Sea combined with extensive in-situ verification (WiMo)
Adolph W., Farke H.

P9: ISRSE36-470

Spot detection from MODIS imagery using 2P-CFAR
Ding X., Li X.

P10: ISRSE36-501

Oceanic and atmospheric internal gravity waves imaged by SAR
Liu B., Yang H., Ding X., Li X.

P11: ISRSE36-519

The growth rates of hydrobionts in the Argichi and Vardenis rivers under the conditions of the impact of small hydropower plants
Gevorgyan G. A., Gabrielyan B. K., Boshyan T. V.

P12: ISRSE36-544

Inland-lakes protection application with high resolution satellite imagery in Wuhan
Wen X., Li Z., Xiang D., Shen S., Hu D., Xiao X.

P13: ISRSE36-562

Joint Offshore Wind Field Monitoring with Spaceborne SAR and Platform-Based Doppler LiDAR Measurements
Jacobsen S., Lehner S., **Hieronimus J.**, Schneemann J., Kühn M.

ENGY-P Energy and geological resources**P14: ISRSE36-15**

A complementary use of information from space-based DINSAR and field measuring systems for operational monitoring purposes in open pit iron mines of Carajás mining complex (Brazilian Amazon region)
Paradella W. R., Mura J. C., Gama F.F., Santos A.R., Silva G.G., Galo M., Camargo P. O., Silva A.Q.

P15: ISRSE36-286

An Equitable Approach for compensating Municipalities of the Rio Grande Watershed for Electricity generated by the Furnas Hydropower Plant, Brazil
Ribeiro C., Mounst D., Menezes S., Rocha R., Chaves M., Castro N., Barros K., Martins B., Gleriani J., Soares V.

P16: ISRSE36-618

Multicriteria analysis for sources of renewable energy using data from remote sensing
Matejcek L.

SENS-P Airborne and innovative remote sensing platforms and techniques

P17: ISRSE36-59

Mapping land cover in the Taita Hills, SE Kenya, using airborne laser scanning and imaging spectroscopy data fusion
Piironen R., Heiskanen J., Maeda E., Hurskainen P., Hietanen J., Pellikka P.K.E.

P18: ISRSE36-62

The mathematical model of optical remote sensing system signal considering broken cloudiness effects
Budak V.P., **Shagalov O.V.**

P19: ISRSE36-96

Use of landsat-series data in national geographic condition monitoring in China
Zhao Y., Bai J.

P20: ISRSE36-97

Research on bathymetry estimation by Worldview-2 based with the semi-analytical model
Sheng L.

P21: ISRSE36-200

A Hadoop-based Algorithm of Generating DEM Grid from Point Cloud Data
Jian X., Xiao X., Chengfang H., Zhizhong Z., Zhaohui W., Dengzhong Z.

P22: ISRSE36-226

Research on unmanned aerial vehicles as a platform for lightweight ground-penetrating radar
Collins M.A.

P23: ISRSE36-273

Semantic Segmentation And Difference Extraction Via Time Series Aerial Video Camera And Its Application
Amit S.N.K.

P24: ISRSE36-388

Object-oriented Change Detection Based on Spatiotemporal Relationship in Multitemporal Remote-Sensing Images
Li L., Ying G.W., Wen X.H., Zhang Y

P25: ISRSE36-401

Calibration and Validation plan for the L2A processor and products of the Sentinel-2 mission
Main-Knorn M., Pflug B., Debaecker V., Louis J.

P26: ISRSE36-454

Multisensor experiments over vineyard: new challenges for the GNSS-R technique
Sánchez N., Alonso-Arroyo A., Martínez-Fernández J., Camps A., González-Zamora A., Pablos M., Herrero-Jiménez C., Gumuzzio A.

P27: ISRSE36-455

Validation of SMOS L2 and L3 soil moisture products over the Duero basin at different spatial scales
 González-Zamora A., **Sánchez N.**, Gumuzzio A., Piles M., Olmedo E., Martínez-Fernández J.

P28: ISRSE36-596

A class-outlier approach for environmental monitoring using uav hyperspectral images
 Hemissi S., **Farah I.R.**

P29: ISRSE36-675

Evaluation of the aerosol type effect on the surface reflectance retrieval using CHRIS/PROBA images over land.
 Tirelli C., Manzo C., **Curci G.**, Bassani C.

P30: ISRSE36-747

HyLab– Alaska’s In-State Capability for Airborne Imaging Spectroscopy
Buchhorn M., Prakash A., Hampton D.L., Cristóbal-Rosselló J., Waigl C.F., Stuefer M., Kokaly R.F.

POLA-P Polar and Cold Regions

P31: ISRSE36-609

Crustal uplift due to ice mass loss in Columbia glacier assessed by TanDEM-X InSAR
 Haghshenas Haghghi M., Motagh M., Braun M., Vijay S., **Neelmeijer J.**

P32: ISRSE36-709

Using Earth Observation Data for the Multivariate and Multiscale Trend Analysis in the Arctic Regions between 1981 and 2012
Urban M., Hüttich C., Eberle J., Schmillius C.

Thursday, 14 May 2015

Attendance Time: 15:30–18:00

ATMC-P Atmosphere, weather and climate

P1: ISRSE36-163

Variability of Climatic Elements in Nigeria over recent 100 Years
Salami T.

P2: ISRSE36-486

Multi-temporal Air Temperature Estimation Scheme (MATES)
Bechtel B., Zakek K.

P3: ISRSE36-510

Discuss on Satellite-Based Particulate Matter Monitoring Technique
Li B., Hou L.

P4: ISRSE36-549

Preliminary Research on Radiance Fog Detection based on time series MTSAT data
Wen X., Li Z., Zhang S., Shen S., Hu D., Xiao X.

P5: ISRSE36-682

Data and techniques for studying the urban heat island effect in Johannesburg
Hardy C.H., Nel A.L.

P6: ISRSE36-196

Link between anomalous sources of moisture associated with atmospheric rivers using the oceanic remote sensing data OAFUX
Nieto R., Ramos A. M., Gimeno L., Trigo R. M.

AGRI-P Agriculture and food security

P7: ISRSE36-33

Arab Countries and Space Technology -Requirements and Applications
EInahry Dr.

P8: ISRSE36-92

Evaluation of The Calibrated Integral Equation Model over Agricultural Fields for Surface Parameter Retrieval Using Polarimetric SAR
 Huang X., **Wang J.**, Shang J.

P9: ISRSE36-166

Preliminary Study on the Radar Vegetation Index (RVI) Application to Actual Paddy Fields by ALOS/PALSAR Full-polarimetry SAR Data
Yamada Y.

P10: ISRSE36-351

Spectral Discrimination and Reflectance Properties of Various Vine Varieties from Satellite, UAV and Proximate Sensors
Karakizi C., Oikonomou M., Karantzalos K.

P11: ISRSE36-356

Crop Ground Cover Fraction and Canopy Chlorophyll Content Mapping using RapidEye imagery
Zillmann E., Schönert M., Lilienthal H., Siegmann B., Jarmer T., Rosso P., Weichelt T.

P12: ISRSE36-389

A laboratory procedure for measuring and georeferencing soil colour
Marqués-Mateu Á., Balaguer-Puig M., Moreno-Ramón H., Ibáñez-Asensio S.

P13: ISRSE36-403

Early validation of PROBA-V GEOV1 LAI, FAPAR and FCOVER products for the continuity of the Copernicus Global Land Service
Sánchez J., Camacho F., Lacaze R., Smets B.

P14: ISRSE36-461

Effect of pixel purity in the training and testing stages of supervised crop classification using MODIS time series
 Lów F., Fliemann E., **Duveiller G.**

P15: ISRSE36-462

Coffea arabica spectral signature determination and comparison by two measurement methods during the last rainy months and dry periods in Costa Rica
Aguilar H., Barahona A., Foster L.

P16: ISRSE36-482

Evaluation of Evapotranspiration Value of Rice Paddies using MODIS Data and CROPWAT
Lin S., Hunag T., Wu C., Lin J.

P17: ISRSE36-499

Estimation of chlorophyll concentration in maize using spectral reflectance
Martinez L. J., Ramos A.

P18: ISRSE36-505

Agricultural areas mapping using NDVI/MODIS time series Manica Province, Mozambique
Mabilana H., Fonseca E., Fontana D

P19: ISRSE36-552

Phenological tracking og agricultural feilds investigated by using dual polarimetry tanDEM-X images
Mirzaee S., Motagh M., Arefi H., Nooryazdan A.

P20: ISRSE36-585

Detecting olive oil mill waste disposal areas in Crete/Greece with the use of GIS and Remote Sensing
Alexakis D. D., Sarris A., Kalaitzidis C., Papadopoulos N., Soupios P., Argyriou N.

P21: ISRSE36-715

Application of Satellite Imagery for pericise Change Detection (case study; Taleghan Basin)
Arzani H., Faraji M., Tavili A., Feghi J.

P22: ISRSE36-733

Evaluation of Uncertainty and Accuracy in Multi-Temporal Object-Based Land Use Classification
Knöfel P., Löw F., Möller M., Conrad C.

P23: ISRSE36-622

Development of Multi-temporal Model for Frost Prediction on Agricultural Land exploiting MODIS satellite observations
Louka P., Petropoulos G., Papanikolaou I.

WACY-P Water Cycle**P24: ISRSE36-25**

Use of two &8220;state of the art&8221; remote sensing based data of evaporation to study anomalies in moisture sources and sinks associated to the two severe Amazonia droughts in 2005 and 2010
Gimeno L., Nieto R., Drumond A.

P25: ISRSE36-139

Time Series Analysis of the Lac Bam Wetland Using Dual-Polarized X-Band SAR Data
Moser L., Schmitt A., Wendleder A., Roth A.

P26: ISRSE36-162

Changes in the land cover and land use of the Itacaiunas River watershed, arc of deforestation, Carajas, southeastern Amazon
Souza-Filho P.W.M., Nascimento Jr. W.R., Versiani de Mendonça B.R., Silva Jr. R.O., Guimarães J.T.F., Oti D., Dall'Agnol R., Siqueira J.O.

P27: ISRSE36-195

Evaluation method of water quality for river based on multi-spectral remote sensing data
Xiao X.

P28: ISRSE36-234

Integration of Remote Sensing and Geographic information system in Ground Water Quality Assessment and Management
Shakak N.

P29: ISRSE36-345

Using 710 nm and 815 nm reflectance peaks in retrieving water quality parameters of CDOM-rich lakes
Kutser T., Paavel B., Kauer T.

P30: ISRSE36-381

Engaging the Applications Community of the future Surface Water and Ocean Topography (SWOT) Mission
Srinivasan M., Andral A., Hossain F., Dejus M., Peterson C., Beighley E., Pavelsky T., Chao Y., Doorn B., Bronner E., Houpert L.

P31: ISRSE36-468

Developing integrated remote sensing data fusion and mining techniques for environmental monitoring of the water quality in Spanish reservoirs
Doña C., Caselles V., Chang N.B., Sánchez J.M., Camacho A.

P32: ISRSE36-477

Extracting Continuous Urban Rivers from High-Resolution Imagery
Zeng C., Wang J., Bird S.

P33: ISRSE36-577

Storage capacity estimation of small reservoirs in drylands based on Interferometric Synthetic Aperture Radar (InSAR) and TanDEM-X data
Zhang S., Medeiros P., de Araújo J.C., Motagh M., Waske B., Foester S.

P34: ISRSE36-624

Can single empirical algorithms accurately predict inland shallow water quality status from high resolution, multi-sensor, multi-temporal satellite data?
Theologou I., Patelaki M., Karantzalos K.

P35: ISRSE36-656

Rainfall in an experimental watershed: a comparison between observed and TRMM 3B42V7 dataset
Almeida C. N., Barbosa L. R., Freitas E. S., Melod D. C. D.

P36: ISRSE36-744

Towards Improving our Understanding on the Retrievals of Key Parameters Characterising our Planet's Water Cycle from Space: the work done within the PREMIER-EO Project
Petropoulos G.P., Ireland G., North M.R., Srivastava P.K., Huges C., Louka P.

P37: ISRSE36-745

Sustainable land and water management of reservoir catchments by applying innovative remote sensing research methodologies
Selsam P., Böhm B., Böhm C., Pfennig B., Niemann C., Fink M., Hejmanowska B., Bergier T.

P38: ISRSE36-746

Assessment and analysis of river bank erosion and channel braiding of the Brahmaputra River by object oriented classification of optical satellite imagery
Selsam P., Böhm B., Böhm C., Flügel W., Busch C., Kakati H., Mitra A.

→ OBSERVING EARTH FROM SPACE

The European Space Agency (ESA) is Europe's gateway to space. Its mission is to shape the development of Europe's space capability and ensure that investment in space continues to deliver benefits to the citizens of Europe and the world.

ESA's Earth observation programmes provide reliable data from satellite observations. The data are fundamental to improving our understanding of the way the planet works and form the basis for sophisticated models that help predict how the Earth system will respond to further change. Carrying sophisticated technologies, ESA's fleet of Earth Explorer satellites are designed to fill specific gaps in our knowledge. These versatile missions are not only meeting their scientific objectives, but are also surpassing expectations by offering a wide range of new and complementary results.

While the Earth Explorers deliver new science, the family of Sentinel missions ESA is building for Europe's Copernicus programme are set to provide decision makers with key information to manage numerous aspects of our environment. In addition, the satellites ESA builds in collaboration with the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) secure the need for operational weather forecasting.





Knowledge for Tomorrow

DLR at a glance

DLR is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport and security is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for the nation's largest project management agency.

DLR has approximately 8000 employees at 16 locations in Germany: Cologne (headquarters), Augsburg, Berlin, Bonn, Braunschweig, Bremen, Goettingen, Hamburg, Juelich, Lampoldshausen, Neustrelitz, Oberpfaffenhofen, Stade, Stuttgart, Trauen, and Weilheim. DLR also has offices in Brussels, Paris, Tokyo and Washington D.C.

