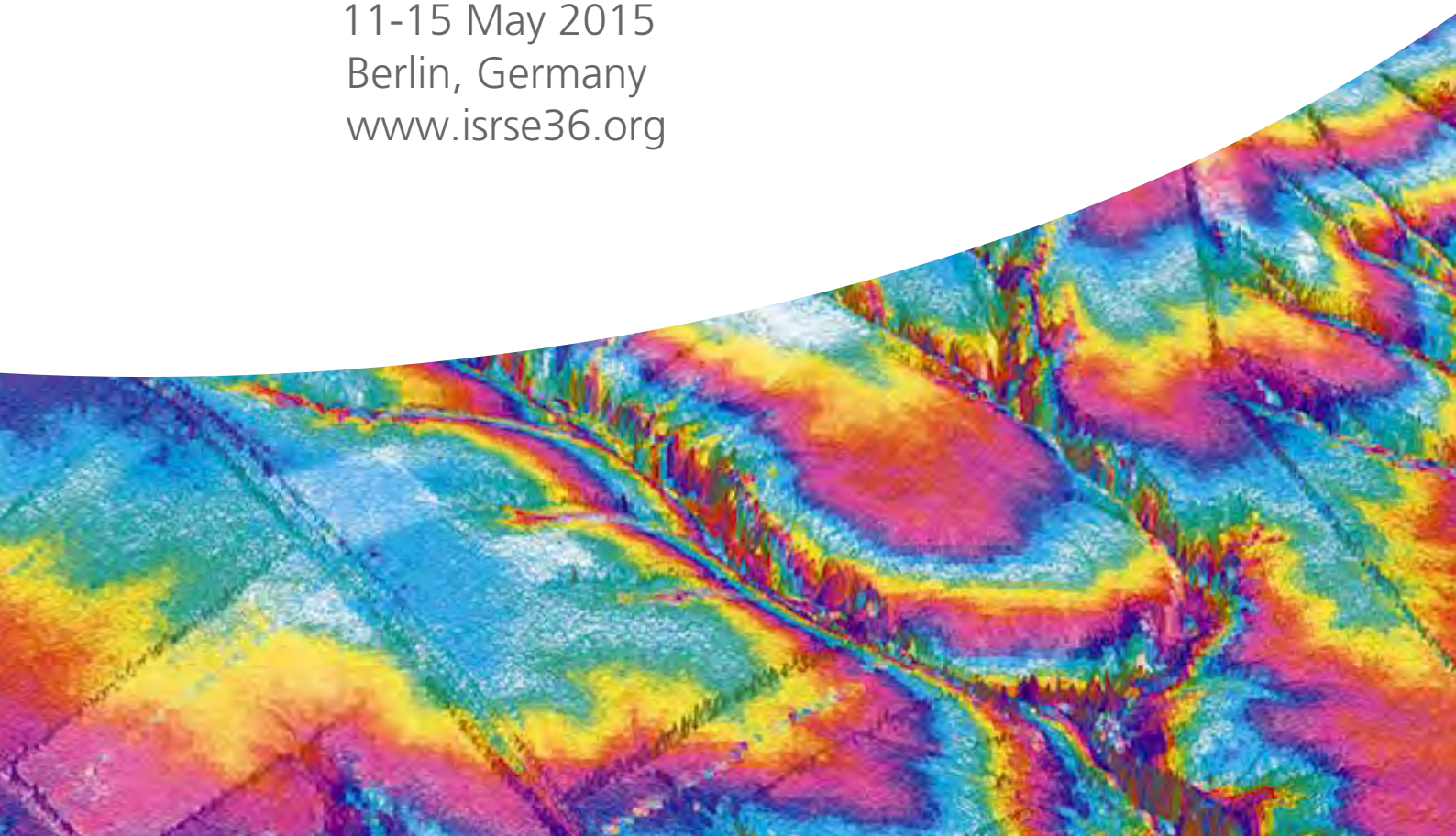
ISRSE36 Berlin 2015

Second Announcement
and Preliminary
Programme

36th International Symposium on Remote Sensing of Environment

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

11-15 May 2015
Berlin, Germany
www.isrse36.org



Host: German Aerospace Center

DLR

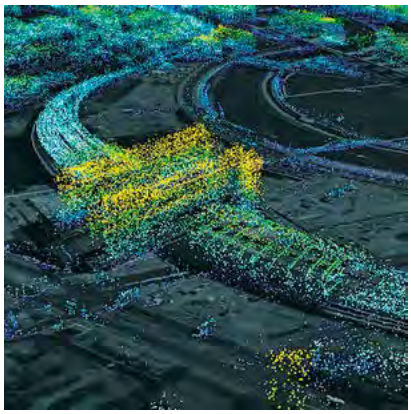
in partnership with the International Center for Remote Sensing of Environment.

International Center for Remote Sensing Of Environment

ISRSE is an International Society of Photogrammetry and Remote Sensing Symposium

isprs

Invitation



Berlin Central Station and surroundings, observed by TanDEM-X. © DLR

You are invited to the 36th International Symposium on Remote Sensing of Environment (ISRSE), which will take place on May 11-15, 2015 in Berlin, Germany. This 36th Symposium will represent a major event in the long series of internationally recognized ISRSE meetings. The overall theme of the symposium is the use of Earth Observation systems and related Remote Sensing techniques for understanding and managing the Earth environment and resources.

ISRSE-36 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 set to be 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 Satellite (CEOS), addresses all of these political and scientific agendas while it currently prepares for its second implementation phase 2016-2025. International science organisations, 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 those international developments, as well as to discuss future plans for them. ISRSE-36 will feature recent milestones in the development of Earth observation programmes addressing sustainable development, global environmental issues and resilience to disasters:

- The European Union's Earth Observation Programme Copernicus, managed by the European Commission in partnership with the European Space Agency (ESA), has gone operational in 2014. The first mission of its dedicated Sentinel satellite fleet, Sentinel-1A, has been launched successfully. The next mission, Sentinel-2, is scheduled to be launched shortly after the conference. Other missions will follow soon.
- The Symposium will also devote attention to other significant Earth Observation programmes world-wide, public as well as private, such as the US Land Imaging Programme and its Landsat legacy, the SPOT, Radarsat, ALOS or CBERS programmes, and ESA's Living Planet programme.
- New information technologies are applied to master the amount of digital data, delivered by all these missions and turn them into new geoinformation products and global science results. The Symposium will feature key results in "big data in earth observation" projects.
- The German Aerospace Center DLR is operating very successfully the TerraSAR-X mission and, together with its twin satellite, the TanDEM-X mission. 2015 will witness the full completion of the TanDEM-X global Digital Elevation Model. This will be an unique dataset with unprecedented quality and coverage. The RapidEye mission has been launched in 2008, where DLR supports its scientific exploitation. DLR also prepares for the EnMAP Hyperspectral Imaging mission to be launched in 2017.

ISRSE-36 will provide an outstanding opportunity to learn about these major programmes and their first results. It will be 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 will include plenary and thematic sessions, poster sessions and side events on issues of interest to scientists, policy makers and resource managers in the public and private sectors. The programme will feature 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 a range of fields now deemed critical in the Earth's sustainable management.

Preliminary Programme

Technical Sessions

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 [SOCI]
- 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].

The 36th ISRSE Technical Programme Committee has accepted a total of 718 papers. Over 480 of these are scheduled as oral presentations organized in 64 oral sessions, occupying some 90 timeslots of 90 minutes with 5-6 presentations each. The other abstracts are scheduled as poster presentations and will be organized in 4 dedicated poster sessions.

Oral presentations (max 15 minutes including questions) will be thematically grouped and conducted in up to eight parallel sessions. Poster presentations will take place during dedicated poster sessions in the conference schedule.

Please note: Authors must register before 25 March 2015 to guarantee their contribution being included in the final programme. According to ISRSE policy, only papers presented at ISRSE-36 will be published in the ISRSE Proceedings.

To increase the science impact of the ISRSE-36, it is planned to publish selected papers in a Special Issue of the "ISPRS Journal of Photogrammetry and Remote Sensing". Details on this Special issue and the selection of contributions will be available shortly before the Symposium.

Plenary Sessions
In addition to the technical sessions, the conference will see five plenary sessions (one each day). These sessions are 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.

Side Events
A couple of side events on special themes will complement the symposium programme. Different workshops and other meetings related to Remote Sensing of the environment are being planned. Please note there is still some room available. If you are interested please contact the symposium management at **ISRSE36@dlr.de**.

Please find a full Preliminary Programme at the end of this document and online at www.isrse36.org/prelim-programme/.

Exhibition and Sponsoring

The 36th ISRSE Symposium will be accompanied by a dedicated exhibition. Traditionally, major Remote Sensing and GIS companies as well as Space Agencies present their latest Remote Sensing programmes, products and services. ISRSE is a unique marketing opportunity to expose products, equipment and services to quality visitors in a short space of time, and for face to face contacts with the industry's Who's Who. The Symposium is an excellent investment in cost-effective advertising and the ideal platform to launch new products, make announcements and present the latest innovations and technological developments. Different exhibition and sponsorship categories will provide flexible and tailor-made opportunities for interested companies and institutions. Note that we still have room available for additional exhibitors. For more information, please go to **www.isrse36.org/exhibit-sponsoring/**. A number of sponsors and exhibitors have already signed up: **www.isrse36.org/sponsors/.**

Conference Venue

Photo: Berlin Conference Center © bcc

ISRSE-36 will take place at the Berlin Conference Center (bcc), situated in the heart of Berlin at Alexanderplatz square, within walking distance to the famed Museum Island, the Boulevard "Unter den Linden", and to Checkpoint Charlie and Brandenburg Gate Monuments, to name just a few sites. Built in the early 1960's by Hermann Henselmann, Bauhaus-influenced star architect of the German Democratic Republic (GDR), the bcc is an exceptional and visionary architectural example of that time. It has been completely refurbished some ten years ago, offers up-to-date presentation and communication infrastructure and now hosts around 50 large-scale conferences every year. See **www.bcc-berlin.de/en.**

About Berlin
Berlin is a dynamic and creative city where tradition and innovation coexist in a climate of freedom. Germany's largest city offers a myriad of opportunities in areas such as media, culture, development, science and industry. Since the fall of the Wall on 9 November 1989, the city has undergone rapid and dramatic change. And as Germany's capital, it is the seat of the German parliament and government. Berlin is renowned as one of the most exciting places in the world. It has been a city of knowledge and culture since the days of Friedrich the Great in the 18th century. The political and cultural developments of the 19th and 20th century are visible throughout Berlin's cityscape, reflecting both the history of architecture and various approaches to dealing with the consequences of war and destruction. The city reflects the rapid succession of influences and trends, and this juxtaposition and collision of styles makes the city especially appealing to young people from all over the world. They set new trends and, with their individualized lifestyles, are a part of the creative atmosphere the city generates. The city's night life tempts visitors with countless bars, discos, and clubs – which can stay open all night if they like – and with exhibitions and open-air events.

Photo: Brandeburg Gate,
© dpa, taken from www.berlin.de

Travel and Accommodation

General Information on travel and accommodation for your trip to Berlin is provided for you at **www.isrse36.org/accommodation-travel/.**

Your individual **Visa Regulations** for Germany can be found out from the **German Federal Foreign Office Website**. All registered participants whose payment has been received can request an official Letter of Invitation confirming your registration. If you have already registered, you may request this letter by email to **isrse36@dlr.de.**

A range of competitively priced **Accommodation Options** has been blocked for the ISRSE-36. To get further information on options and to make your reservation, please visit the dedicated hotel booking system we provide at **www.isrse36.org/hotel-information/**.

The 36th ISRSE Organizing Committee is pleased to offer a **Travel Support Programme** for PhD students and researchers from Europe and developing countries. Travel grants are limited to reimbursement of actual travel and accommodation expenses after the conference ends and do not cover registration rates. To qualify for travel support, the applicant must both be the first author of an accepted abstract and having a plausible need for travel support. The detailed application must be sent as soon as possible, but no later than 15 February 2015 to **isrse36@dlr.de**. Please find detailed conditions and requirements at **www.isrse36.org/travel-support-programm/.**

Photo: Spree river cruise through central Berlin. © Stern & Kreis

Social Programme

An **Icebreaker Reception** will be held on Monday 11 May at 18:00 hrs at the conference venue. Participation is free for registered participants.

The **Symposium Banquet** will take place on Wednesday 13 May starting at 19:00 hrs. It will be held on a three 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. 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. Booking is done via the general registration process at **www.isrse36.org/registration/.** The costs are 80 € (incl. VAT).

Additionally, 3 **Technical Tours** are offered. They will take place after the closing of the conference on Saturday 16 May. Booking is done via the general registration process at **www.isrse36.org/registration/**. The costs are 16 € (incl. VAT) for each of the tours.

Photo: DLR site Neustrelitz. © DLR

Tour 1: Visit of the German Aerospace Center (DLR) in Neustrelitz
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 Observation and Navigation are its main focus. The site hosts a department of DLRs German Remote-sensing Data Centre and Institute for Communication and Navigation and features multiband antennas 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 for maritime security and satellite data archiving.

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

Photo: Einstein Tower at Telegraphenberg Potsdam. © AIP

Tour 3: Visit of German Research Centre for Geosciences (GFZ) in Potsdam
You will visit the historic Science Park "Albert Einstein" on Telegraphenberg in Potsdam, some 30 min. southwest of Berlin, featuring numerous historic scientific installations and observatories including the famous Einstein Tower. Nowadays, Telegraphenberg is home for many research facilities, including the German Research Center for Geosciences (GFZ), the Potsdam Institute for Climate Impact Research (PIK), the Potsdam section of the Alfred Wegener Institute for Polar and Marine Research (AWI), and the Astrophysical Institute Potsdam (AIP). The object of research of the GFZ is the Earth System – our planet, on and from which we live. The history of the Earth and its characteristics, as well as the processes which occur on its surface and within its interior, are studied.

Additionally, a counter of the Berlin tourist office will be at your disposal at the conference venue to offer you tailor-made options for social and cultural activities.

Registration

All symposium participants, including speakers/authors, are required to register and pay the participant registration fee. Symposium badges will be required for all activities. Full payment must accompany registrations. Each participant requires individual registration.

Registration Early Bird Rate = until 15 February 2015	Regular	650 €
	Student	300 €
	Single Day Regular	300 €
	Single Day Student	150 €
Registration Standard Rate = 15 February - 15 April 2015	Regular	750 €
	Student	350 €
	Single Day Regular	350 €
	Single Day Student	175 €
Registration Onsite Rate = from 10 May 2015	Regular	800 €
	Student	375 €
	Single Day Regular	375 €
	Single Day Student	190 €

Registration fee includes VAT. Online registration is open from 1 December 2014 and closes on 15 April 2015 and available on the Symposium website at **www.isrse36.org/registration/.**

The registration fee for participants includes admission to all areas of the Conference Center, access to sessions, exhibition and side events, conference kit (with copy of programme and USB stick with final papers), access to conference programme app (Android and iOS), coffee breaks, Icebreaker reception on 11 May.

Important Dates

1st Announcement and Call for Papers	2 June 2014
Abstract Submission System opens	1 July 2014
Deadline for Abstract and Workshop Proposal Submission	25 October 2014
Registration opens	1 December 2014
Abstract Acceptance Notification, Call for full Paper	6 December 2014
2nd Announcement and Preliminary Programme,	22 January 2015
End of Early Bird Registration	15 February 2015
Deadline for Travel Support Applications	15 February 2015
Deadline for full Paper Submission, Author Registration Deadline	25 March 2015
3rd Announcement and Draft Final Program	15 April 2015
Close of On-line Registration	15 April 2015
Exhibition Build-up, Workshops, On-site Registration opens	10 May 2015
Convene ISRSE 36	11 May 2015

Full Preliminary Programme

Note: While great care has been taken with preparing this preliminary programme, it is clearly at a preliminary stage and as such may be subject to modifications, e.g. with respect to assignment of papers to sessions, timing of sessions, etc..

- Session Time Planer

- Oral Programme

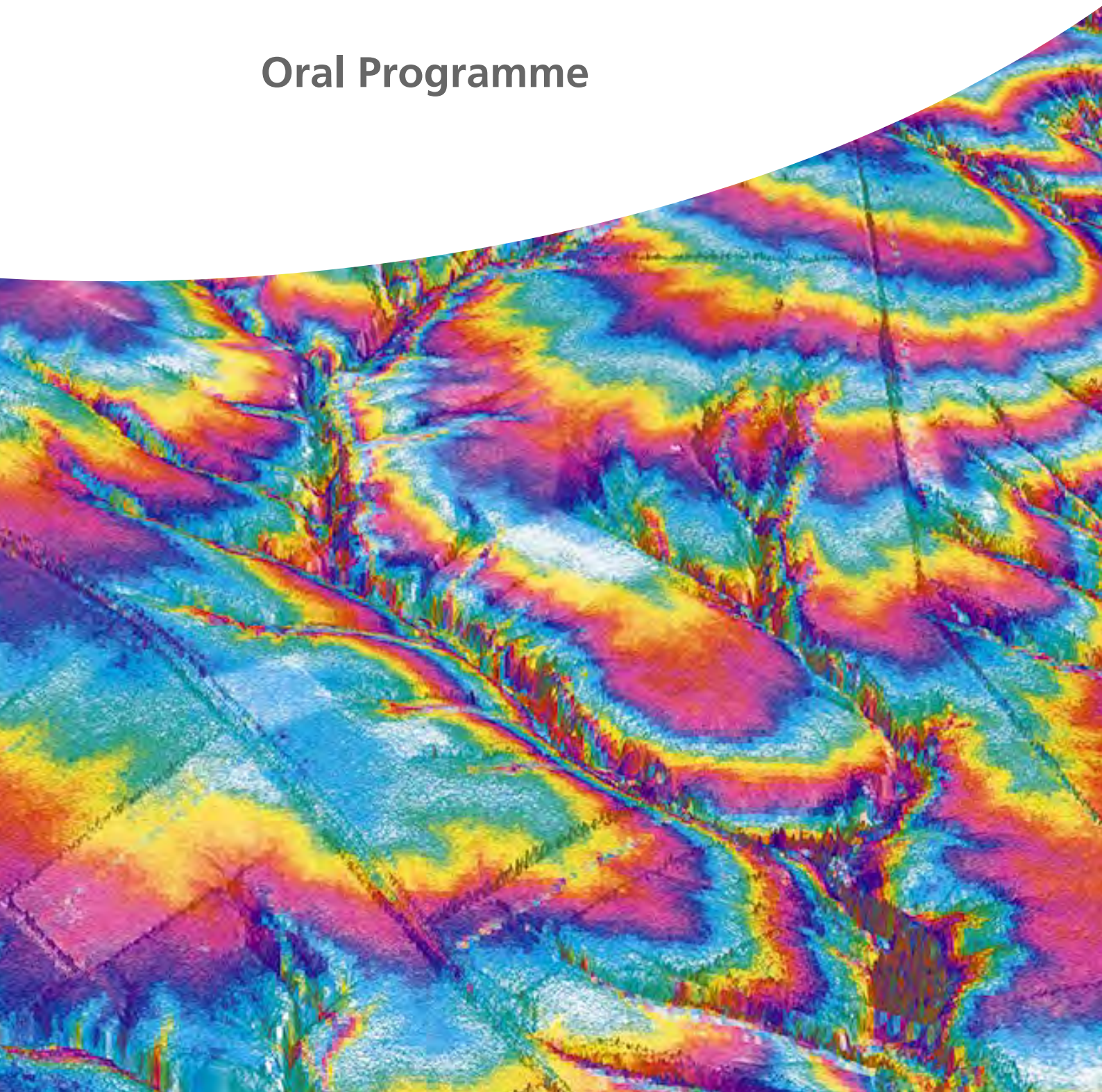
- Poster Programme

Session Time Planer ISRSE 36

			Plenary & Technical Sessions								Special Sessions	Poster Sessions			
			C01	B05-06	B07-08	B09	A03	A04	A05	A06	A08	C02			
			Berlin	Beijing	Sydney	Stresa	Tromsoe	Cape Town	Honolulu	Buenos Aires	Ann Arbor				
	Time	Kind of Session	930	261	174	195	83	83	83	83	126	Poster Area			
Monday May 11th	9:00–10:00	Opening Ceremony	OPEN												
	10:30–12:30	Plenary	PLEN-1												
	12:30–14:00	Lunch													
	14:00–15:30	Technical	PROG-6	BIOD-1		DATA-1			ATMC-1						
	15:30–16:00	Coffee Break													
	16:30–18:00	Technical	PROG-6	BIOD-1	BIOD-6	DATA-1	POLA-2	AGRI-1	ATMC-3	MARI-2					
	10:30–17:30	Poster Display										DISA-P	SOCI-P	DATA-P	PROG-P
	12:30–14:00	Poster Attendance										26	8	16	7
	18:00–20:00	Ice Breaker													
Tuesday May 12th	9:00–10:30	Plenary	PLEN-2												
	10:30–11:00	Coffee Break													
	11:00–12:30	Technical	PROG-1	BIOD-2	BIOD-6	DISA-2	SOCI-2	DATA-2	SENS-6	MARI-2					
	12:30–14:00	Lunch									SPEC-1				
	14:00–15:30	Technical	SENS-5	BIOD-2	BIOD-6	DISA-1	SOCI-2	AGRI-2	SENS-7	MARI-3					
	15:30–16:00	Coffee Break													
	16:30–18:00	Technical	PROG-2	BIOD-3	SENS-8	DISA-1	POLA-3	AGRI-3	SENS-2	MARI-3					
	10:30–17:00	Poster Display										BIOD-P			
	12:30–14:00	Poster Attendance										70			
Wednesday May 13th	9:00–10:30	Plenary	PLEN-3												
	10:30–11:00	Coffee Break													
	11:00–12:30	Technical	PROG-3	BIOD-3		DISA-4	POLA-1	DATA-4	ENGY-1	SPEC-3					
	12:30–14:00	Lunch									SPEC-2				
	14:00–15:30	Technical	PROG-5	BIOD-5	BIOD-7	DISA-3	BIOD-10	DATA-4	SENS-3	SPEC-3	SPEC-4				
	15:30–16:00	Coffee Break													
	16:30–18:00	Technical	SENS-4	BIOD-5	BIOD-7	DISA-5	BIOD-10	AGRI-4	ATMC-4	SPEC-3	SPEC-4				
	10:30–17:00	Poster Display										MARI-P	ENGY-P	SENS-P	POLA-P
	12:30–14:00	Poster Attendance										17	4	23	5
	19:00–22:00	Conference Banquet													
Thursday May 14th	9:00–10:30	Plenary	PLEN-4												
	10:30–11:00	Coffee Break													
	11:00–12:30	Technical	PROG-7	BIOD-5	BIOD-9	DATA-3	SOCI-3	AGRI-5	SENS-9	MARI-1					
	12:30–14:00	Lunch													
	14:00–15:30	Technical	SENS-1	BIOD-4	BIOD-8	DATA-3	SOCI-1	AGRI-6	ATMC-2	WACY-1					
	15:30–16:00	Coffee Break													
	16:30–18:00	Technical	SENS-1	BIOD-4	BIOD-8	DATA-5	SOCI-1	AGRI-7	ATMC-2	WACY-2					
	10:30–17:00	Poster Display										ATMC-P	AGRI-P	WACY-P	
	12:30–14:00	Poster Attendance										14	22	20	
Friday May 15th	9:00–10:30	Technical	PROG-4	BIOD-4	BIOD-8	DISA-6	SOCI-4	AGRI-8	SENS-10	WACY-3					
	10:30–11:00	Coffee Break													
	11:00–12:30	Plenary	PLEN-5												
	12:30–13:00	Closing Ceremony	CLOSE												

ISRSE36
Berlin 2015

Oral Programme



isrse36: **Oral Programme**

Monday, 11 May 2015

OPEN Opening Ceremony

Lecture Room: Berlin (C01)
09:00–09:50

Welcome from the Federal Government, Sigmar Gabriel, Federal Minister for Economy and Energy

Welcome from the Host DLR, Jan Wörner

Welcome from the Co-Host ICRSE, Charles Hutchinson

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

Keynote speech, NN

END OF ORAL PROGRAMME OPEN

PLEN-1 The Perspectives of Space Agencies

Lecture Room: Berlin (C01)
10:30–12:30
Chairperson(s): Per-Erik Skrovseth, Hans-Peter Lüttenberg

Volker Liebig, ESA

Michael Freilich, NASA

Gerd Gruppe, DLR

Shizuo Yamamoto, JAXA

Alain Ratier, EUMETSAT

Stephen Volz, NOAA

Guo Huadong, RADI

Panel Discussion

END OF ORAL PROGRAMME PLEN-1

DATA-1 Geospatial information analysis in Digital Earth

Lecture Room: Stresa (B09)
14:00–15:30
Chairperson(s): Wang Changlin, Sven Schade

14:00–14:15: ISRSE36-291
Big Data breaking barriers - first steps on a long trail
Schade S.

14:15–14:30: ISRSE36-110
Multiresolution representation of oblique airborne photogrammetry-based 3D city models in Digital Earth
Liang J., Gong J., Dai Y., Liu J.

14:30–14:45: ISRSE36-138
Evaluation of Future Internet Technologies for Processing and Distribution of Satellite Imagery
Becedas J., Pérez R., González G., Pedrera F., Latorre M. J.

14:45–15:00: ISRSE36-193
Australian Geoscience Data Cube: A petabyte-scale analysis system to realise the potential of Earth observations from satellites
Lewis A., Mueller N., Ip A., Roberts D., Ring S.

15:00–15:15: 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.

15:15–15:30: ISRSE36-393
Coupling the OGC Sensor Observation Service Interface to Raster Data Sources
Nüst D., Badoiu S. A., Misev D., **Jirka S.**

15:30 Coffee Break

Lecture Room: Stresa (B09)
16:30–18:00
Chairperson(s): Wang Changlin, Sven Schade

16:30–16:45: ISRSE36-495
Asterix and Obelix: How Standards Reunite Data and Metadata
Baumann P.

16:45–17:00: ISRSE36-522
Towards a digital earth through integration of citizen-based sensing and remote sensing in collecting geoinformation of terrestrial objects
Jokar Arsanjani J.

17:00–17:15: ISRSE36-722
iGlobe - Next Generation Framework for Handling Geospatial Data
Chandola V.

17:15–17:30: ISRSE36-394
Automated Earth Observation time-series monitoring with OGC-compliant web services
Eberle J., Hüttich C., Schmullius C.

17:30–17:45: ISRSE36-446
Data Mining and Knowledge Discovery tools for exploiting big Earth-Observation data
Espinoza Molina D., Datcu M

17:45–18:00: 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., Heege T., Franke J., Rücker G.

END OF ORAL PROGRAMME DATA-1

BIOD-1 Trends in operational land cover mapping

Lecture Room: Beijing (B05-06)
14:00–15:30
Chairperson(s): Konrad Wessels

14:00–14:18: ISRSE36-625
History of global land cover mapping and monitoring using earth observation data
Hansen M., Potapov P., Townshend J., Justice C.

14:18–14:36: 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.

14:36–14:54: 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.

14:54–15:12: ISRSE36-218
Implementation of an operational land cover classification system to support Mexican activity data reporting
Wehrmann T., Gebhardt S., Kopeinig R., Schmidt M.

15:12–15:30: 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., Ramoino F., Arino O., Defourny P.

15:30 Coffee Break

Lecture Room: Beijing (B05-06)
16:30–17:57
Chairperson(s): Konrad Wessels

16:30–16:48: 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.

16:48–17:06: 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.

17:06–17:24: 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., Kovalskyy V.

17:24–17:42: ISRSE36-155
Comparative accuracy assessment of global land cover datasets using existing reference data
Tsendbazar N.E., de Bruin S, Mora B, Herold M

Discussion-1

END OF ORAL PROGRAMME BIOD-1

BIOD-6 Time Series Analyses revealing Land Surface Dynamics

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Sydney (B07-08)
16:30–18:00
Chairperson(s): Claudia Künzer, Sebastian van der Linden

16:30–16:48: 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.

16:48–17:06: 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.

17:06–17:24: ISRSE36-4
Spatial and temporal patterns of tree cover dynamics in the Mekong basin between 2001 and 2011
Leinenkugel P., Oppelt N., Kuenzer C.

17:24–17:42: 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.

17:42–18:00: ISRSE36-674
DUE GlobBiomass - Estimates of Biomass on a Global Scale
Schmullius C. and the C. Schmullius Team

END OF ORAL PROGRAMME BIOD-6

PROG-6 Space Agency outlook

Lecture Room: Berlin (C01)
14:00–15:30
Chairperson(s): Peter Schaadt

14:00–14:18: ISRSE36-349
ESA's Earth Observation Programme
Liebig V.

14:18–14:36: ISRSE36-275
The German Earth Observation Program
Lüttenberg H.-P.

14:36–14:54: ISRSE36-109
The Cnes Earth Observation programme
Ultre-Guerard P.

14:54–15:12: ISRSE36-392
The Canadian Earth Observation Program: On the move from R&D to Operations
Laliberté E.

15:12–15:30: ISRSE36-251
Future Programmes of EUMETSAT for Weather, Climate and Environmental Monitoring
Kaiser C.

15:30 Coffee Break

Lecture Room: Berlin (C01)
16:30–18:00
Chairperson(s): Peter Schaadt

16:30–16:48: ISRSE36-703
NOAA Outlook: Development of Next-Generation Geostationary and Polar Operational Environmental Satellites
Volz S., Smith D.B.

16:48–17:06: ISRSE36-626
COPERNICUS - The European Union Earth Observation Programme
Koch A. C.

17:06–17:24: ISRSE36-723
JAXA's Earth Observation Program
Yamamoto S.

17:24–17:42: ISRSE36-737
The Chinese Earth Observations Programme
Guo H.

17:42–18:00: ISRSE36-738
An update on the NASA Earth Observation Programme
Freilich M. H.

END OF ORAL PROGRAMME PROG-6

MARI-2 Sea state monitoring

Lecture Room: Buenos Aires (A06)
16:30–18:00

16:30–16:45: ISRSE36-134
Wavemill: a new mission for high-resolution mapping of total ocean surface current vectors
Gommenginger C., Martin A., Chapron B., Marquez J., Doody S., Burbidge G., Palmer K., Dobke B., Cotton D.

16:45–17:00: ISRSE36-159
First Analysis of Along-Track InSAR-Derived Current Fields From the Summer 2014 TanDEM-X Short Baseline Opportunity
Romeiser R.

17:00–17:15: 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.

17:15–17:30: 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

17:30–17:45: ISRSE36-405
WIMO - Laser scanning for monitoring the German Wadden Sea
Schmidt A., Heipke C.

17:45–18:00: ISRSE36-408
Estimation of wave and wind field parameters from TerraSAR-X imagery in the Baltic Sea
Rikka S., Uiboupin R., Alari V.

END OF ORAL PROGRAMME MARI-2

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

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Tromsoe (A03)
16:30–17:45

16:30–16:45: ISRSE36-65
Spaceborne quantitative assessment of primary production variations in the Arctic Ocean over the previous decade
Pozdnyakov D.V., Petrenko D.

16:45–17:00: 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.

17:00–17:15: ISRSE36-366
Characterization of ice cover extent from MODIS imagery during different winter scenarios in the Gulf of Riga, Baltic Sea
Raag L.

17:15–17:30: ISRSE36-411
Microwave remote sensing of Antarctic firn properties
Linow S., Dierking W., Hörhold M., Rack W.

17:30–17:45: ISRSE36-425
Elevation change of the Inylchek Glacier (Central Asia) analysed by TanDEM-X data
Neelmeijer J., Motagh M., Guanter L.

END OF ORAL PROGRAMME POLA-2

ATMC-1 Land Atmosphere Interactions

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Honolulu (A05)
14:00–15:30

14:00–14:15: ISRSE36-21
Studying of atmospheric aerosols perturbations caused by recent severe forest fires in Russian boreal zone
Tomshin O., Solovyev V.

14:15–14:30: ISRSE36-107
NDVI dynamics of the taiga zone in connection with modern climate changes
Tsepelev V., Bobkov A., Panidi E., Torlopova N.

14:30–14:45: ISRSE36-126
Responses of vegetation growth to climate change in china
Li Z., Zhou T.

14:45–15:00: ISRSE36-196
Link between anomalous sources of moisture associated with atmospheric rivers using the oceanic remote sensing data OAFLUX
Nieto R., Ramos A. M., Gimeno L., Trigo R. M.

15:00–15:15: 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.

15:15–15:30: ISRSE36-619
The Iinfluence of the Time Equation on Remote Sensing Data Interpretation
Fichtelmann B., Borg E., Schwarz E.

END OF ORAL PROGRAMME ATMC-1

ATMC-3 Climate and Atmosphere

Lecture Room: Honolulu (A05)
16:30–18:00

16:30–16:45: ISRSE36-90
Essential climate variables to support climate change mitigation
Herold M., Mora B., Richter C., Holterhof J., Seifert F. M.

16:45–17:00: ISRSE36-295
Selected NDACC data used in CAMS validation services
Langerock B., **De Mazière M.**

17:00–17:15: ISRSE36-417
A Rapid Cloud Mask Algorithm for Suomi NPP VIIRS Imagery EDRs
Piper M., Bowersox M., **Bahr T.**

17:15–17:30: 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.

17:30–17:45: ISRSE36-449
The stratospheric warming 2012 / 2013: Influences on weather extremes and large scale dynamics in stratosphere and mesosphere
Küchelbacher L.

17:45–18:00: ISRSE36-701
Retrieval of Ozone Total Columns over Évora-Portugal Using Remote Sensing Instruments During 2007-2011
Domingues A.F., Bortoli D., Silva A.M., Kulkarni P., Mendes R.

END OF ORAL PROGRAMME ATMC-3

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

Lecture Room: Cape Town (A04)
16:30–18:00
Chairperson(s): Christopher Conrad

16:30–16:48: ISRSE36-241
Regional scale crop mapping using multi-temporal satellite imagery
Kussul N., Skakun S., Shelestov A., Lavrenyuk M., Yailymov B., Kussul O.

16:48–17:06: ISRSE36-604
Combination of Satellite and Ancillary Data for Crop Classification in West Africa
Forkuor G., Barry B, Conrad C, Thiel M

17:06–17:24: ISRSE36-438
Satellite image simulations for model-supervised, dynamic retrieval of crop type and land use intensity
Bach H., Klug P., Migdall S., Schlenz F., Hank T., Mauser W.

17:24–17:42: 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

17:42–18:00: 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.

END OF ORAL PROGRAMME AGRI-1

END OF ORAL PROGRAMME EXOP

IB Ice Breaker Reception

Lecture Room: Exhibition (B01)
18:00–20:00

END OF ORAL PROGRAMME IB

Tuesday, 12 May 2015

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

Lecture Room: Berlin (C01)
09:00–10:30
Chairperson(s): Barbara Ryan, Carolin Richter

Introduction, Barbara Ryan, GEO

Introduction, Carolin Richter, GCOS

The Global Enery and Water Cycle, Jörg Schulz, EUMETSAT

The Global Carbon Cycle, Han Dolman, VU Amsterdam

Essential Climate Variables and the IPCC, Thomas Stocker, IPCC Co-Chair WG-I

Global Organizations and Programmes implementing the Essential Climate Variables, Stephen Briggs, ESA

NN

END OF ORAL PROGRAMME PLEN-2

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

Lecture Room: Stresa (B09)
14:00–15:30
Chairperson(s): Ivan Petitville, Jens Danzeglocke

14:00–14:15: ISRSE36-87
Capacity Building for Disaster Risk Reduction in Developing Countries CAS-TWAS Perspectives
Chen F.

14:15–14:30: ISRSE36-152
The Geohazard Supersites and Natural Laboratories - GSNL Initiative 2.0: Rapid Uptake of New Science in Disaster Risk Management
Salvi S.

14:30–14:45: 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.**

14:45–15:00: ISRSE36-240
Scope and Activities of the International Working Group on Satellite based Emergency Mapping - IWG-SEM
Voigt S., Schneiderhan T.

15:00–15:15: ISRSE36-276
Towards a Global Wildfire Information System (GWIS)
San-Miguel-Ayanz J., Gaetani F., Vadrevu K., Justice C.

15:15–15:30: ISRSE36-278
Reducing Vulnerability from Latin American Volcanoes Through Enhanced Monitoring Efforts.
Biggs J., Delgado F, Arnold D, Ebmeier S, Pritchard M

15:30 Coffee Break

Lecture Room: Stresa (B09)
16:30–18:00
Chairperson(s): Ivan Petitville; Francesco Gaetani

16:30–16:45: 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.

16:45–17:00: ISRSE36-357
Copernicus Emergency Management Service - Mapping: Completing three years of initial operations
Broglia M.

17:00–17:15: ISRSE36-376
Global Human Settlement Analysis for Disaster Risk Reduction
PESARESI M., Ehrlich D., Halkia M., Kemper T., Soille P.

17:15–17:30: ISRSE36-563
WCDRR and the Committee onEarth Observation activities on disaters
Petiteville I., Ishida C., Danzeglocke J., Eddy A., Gaetani F., Frye S., Kuligowski B., Zoffoli S., Poland M., Jones B.

17:30–17:45: 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.

discussion

END OF ORAL PROGRAMME DISA-1

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

Lecture Room: Stresa (B09)
11:00–12:30
Chairperson(s): David Tralli

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.

END OF ORAL PROGRAMME DISA-2

SOCI-2 Methods for observing urbanisation

Lecture Room: Tromsoe (A03)
11:00–12:30

11:00–11:15: ISRSE36-13
Comparing decision tree and support vector machine classification methods in performing change detection of urban areas: an exploratory study in Bucharest, Romania
Gheorghe M.

11:15–11:30: ISRSE36-115
Characterization of Informal Settlements in Mega Cities by means of Polarimetric SAR Data
Schmitt A., Wurm M., Taubenböck H.

11:30–11:45: ISRSE36-242
Analysis of urban development by means of multi-temporal fragmentation metrics from LULC data
Sapena M., **Ruiz L. A.**

11:45–12:00: 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.

12:00–12:15: 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.

12:15–12:30: ISRSE36-337
Fractal Analysis Of Colors And Shapes For Natural And Urbanscapes URBANSCAPES
Wang J., Ogawa S.

12:30 Lunch Break & Poster Session

14:00–14:15: ISRSE36-476
A New SAR Tomography Using Compressive Sensing in Urban Environment
Li X., Guo H., **Liang L.**

14:15–14:30: ISRSE36-481
With Geospatial in Path of Smart City
Homainejad A.S.

14:30–14:45: ISRSE36-532
A multi-scale SVM-based approach to derive urban landuse / landcover from multispectral images
Bachofer F., Hagensieker R., Hochschild V.

14:45–15:00: ISRSE36-677
Exploring life between buildings by monitoring pedestrian flow patterns in public spaces using 3d lidar data and advanced image analysis
Zwolinski A.

15:00–15:15: ISRSE36-680
Application of Lidar Data and 3D-City Models in Visual Impact Simulations of Tall Buildings
Czy?ska K.

15:15–15:30: ISRSE36-696
Build-up area information extraction using long time series Landsat remote sensing images
Wang G., He G., Liu J.

END OF ORAL PROGRAMME SOCI-2

DATA-2 Remote sensing ontology and semantics

Lecture Room: Cape Town (A04)
11:00–12:15
Chairperson(s): Karl Ahlquist, Michael Bock

11:00–11:15: ISRSE36-718
Land Use and Land Cover Semantics: Principles, Best Practices and Prospects
Ahlqvist K.O.

11:15–11:30: 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.

11:30–11:45: 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.

11:45–12:00: 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.

12:00–12:15: ISRSE36-649
Formal ontologies for extracting information from high resolution satellite imagery
Belgiu M.

END OF ORAL PROGRAMME DATA-2

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

Lecture Room: Beijing (B05-06)
11:00–12:30
Chairperson(s): Matt Hansen, Martin Wegmann

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: ISRSE36-599
INPE's Amazon Deforestation Monitoring Program
Valeriano D., Maurano L., Gomes A., Almeida C.

11:30–11:45: ISRSE36-129
National Scale Monitoring Reporting and Verification of Deforestation and Forest Degradation in Guyana
BHOLANATH P.

11:45–12:00: 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.

12:00–12:15: 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.

12:15–12:30: ISRSE36-323
Advancing Indonesian Forest Resource monitoring using multi-source remote sensing data
Margono B.

12:30 Lunch Break & Poster Session

Lecture Room: Beijing (B05-06)
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., Hindberg H., Davids C., 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., Roswintiarti 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 detect-ing deforestation in the tropics
Reiche J., Verbesselt J., Herold M., Hoekman D.

END OF ORAL PROGRAMME BIOD-2

BIOD-3 Forests Mapping and Monitoring

Lecture Room: Beijing (B05-06)
16:30–18:00
Chairperson(s): Douglas Muchoney

16:30–16:48: ISRSE36-76
Detecting and Monitoring Deforestation and Forest Degradation
Muchoney D.M., **Hamann S.**

16:48–17:06: 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.

17:06–17:24: 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., Schmullius C.

17:24–17:42: ISRSE36-347
Comparison of interferometric and stereo-radargrammetric 3D metrics in mapping of forest resources: first results from the Advanced_SAR EU/FP7 project
Karila K., Karjalainen M., Vastaranta M., Holopainen M., Hyyppä J.

17:42–18:00: ISRSE36-496
Forest cover mapping in Central Asia using multi-resolution remote sensing imagery
Yin H., Jakob A., Martius C., Khamzina A.

END OF ORAL PROGRAMME BIOD-3

BIOD-6 Time Series Analyses revealing Land Surface Dynamics

Lecture Room: Sydney (B07-08)
11:00–12:30
Chairperson(s): Tjomas Udelhoven, Claudia Künzer

11:00–11:18: ISRSE36-6
Long-term Soil Moisture Time Series Analyses based on Active Microwave Backscatter Measurements
Wagner W., Reimer C., Bauer-Marschallinger B., Enenkel M., Hahn S., Melzer T., Naeimi V., Paulik C., Dorigo W.

11:18–11:36: 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.

11:36–11:54: ISRSE36-71
Global SnowPack - A set of Snow Cover Parameters derived from times series of daily snow cover data made available on a global scale
Dietz A., Kuenzer C., Dech S.

11:54–12:12: ISRSE36-553
Soil moisture dynamic in Central Asia and Xinjiang province of China over 30 years from microwave remote sensing
LI X.

12:12–12:30: ISRSE36-610
New methods for time series processing of image data in TIMESAT
Eklundh L., Cai Z, jönsson P

12:30 Lunch Break & Poster Session

Lecture Room: Sydney (B07-08)
14:00–15:30
Chairperson(s): Hyun Ok Kim, Carsten Brockmann

14:00–14:18: 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.

Towards spatial-temporally more accurate and consistent land cover mapping based on MODIS time series data
Liu D.

14:36–14:54: ISRSE36-537
Classifying land cover under heavy cloud coverage with WELD time series and PalSAR data
Anaya J., Palomino S.

14:54–15:12: ISRSE36-187
TIME series analysis of ndvi, ndwi and lst with malaria cases; a proxy for early warning in Nkomazi, South Africa
Adeola A., Botai O., Olwoch J., Tsela P., Adisa O., Kalumba A.

15:12–15:30: ISRSE36-375
Estimation of grassland use intensities based on high spatial resolution LAI time series
Asam S., Klein D., Dech S.

END OF ORAL PROGRAMME BIOD-6

PROG-1 ESA Earth Explorer achievements

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Berlin (C01)
11:00–12:30
Chairperson(s): Michael Rast

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.

END OF ORAL PROGRAMME PROG-1

PROG-2 DRAGON-3 ESA MOST China cooperation results

Lecture Room: Berlin (C01)
16:30–18:00
Chairperson(s): Yves-Louis Desnos, Lin Hui

16:30–16:45: 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

16:45–17:00: 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.

17:00–17:15: 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.**

17:15–17:30: ISRSE36-35
Atmosphere and Climate
van der A R.J., Bai J., Ding A., Hao N., Xue Y., Varotsos C., Ma R., Loiselle S., Huang F., Sofieva V., Liu Y., Boesch H., Ma Y., Su B.

17:30–17:45: ISRSE36-453
Earth Observation in Support of Science and Applications development in the field &8220;Land and Environment&8221;: Synthesis Results from the ESA-MOST DRAGON Cooperation Programme
Cartalis C.

17:45–18:00: 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.

END OF ORAL PROGRAMME PROG-2

MARI-2 Sea state monitoring

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Buenos Aires (A06)
11:00–12:00

11:00–11:15: ISRSE36-420
Observing ocean surface currents from a geostationary satellite
Warren M.A., Quartly G.D., Miller P.I., Shutler J.D.

11:15–11:30: ISRSE36-558
Sea surface wakes observed by spaceborne SAR in the offshore wind farms
Li X.-M., Lehner S., Jacobsen S.

11:30–11:45: ISRSE36-627
GlobCurrent - advancing the surface current estimation from satellites
Johannessen J. A.

11:45–12:00: ISRSE36-712
Maritime NRT Products Using TerraSAR-X Imagery
Lehner S.

END OF ORAL PROGRAMME MARI-2

MARI-3 Coastal areas and marine habitats

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Buenos Aires (A06)
14:00–15:30

14:00–14:15: ISRSE36-57
Mapping of algae richness using spatial data interpolation
Tapia_Silva F., Hernández-Cervantes O-E., Vilchis-Alfaro M-I., Sentíes A.

14:15–14:30: ISRSE36-140
Mussel bed monitoring in the Wadden Sea: From pixels to products
Müller G., Stelzer K., Gade M.

14:30–14:45: 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.

14:45–15:00: ISRSE36-211
Analyses of multi-year synthetic aperture radar imagery of dry-fallen intertidal flats
Gade M., Melchionna S., Kemme L.

15:00–15:15: ISRSE36-268
Waterline detection and monitoring in the German Wadden Sea using high resolution satellite-based radar measurements
Wiehle S., Lehner S., Pleskachevsky A.

15:15–15:30: ISRSE36-282
Relationship between eolian dust deposition and cyanobacteria growth in the Great Barrier Reef, Australia
Tran Van D., Gabric A., Cropp R.

15:30 Coffee Break

16:30–16:45: 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.

16:45–17:00: ISRSE36-362
Analysis of the shoreline position extracted from Landsat TM and ETM+ imagery
Sanchez Garcia E.,

17:00–17:15: 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.

17:15–17:30: ISRSE36-497
Benthic habitat mapping in the Primeiras and Segundas Archipelago Reserve
Teixeira L., Nilsson M., Hedley J., Shapiro A.

17:30–17:45: ISRSE36-542
Estimation of mangrove fractional cover using mixture tuned matched filtering of Landsat image
Blanco A.C., Escoto J.E.D.

17:45–18:00: 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.

END OF ORAL PROGRAMME MARI-3

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

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Honolulu (A05)
16:30–18:00
Chairperson(s): Doris Klein

16:30–16:45: 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.

16:45–17:00: ISRSE36-590
VISIR-SAT - a prospective micro-satellite based multi-spectral thermal mission for land applications
Ruecker G., Menz G., Hartmann M., Oertel D.

17:00–17:15: 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.

17:15–17:30: ISRSE36-448
Urban and Smart City Energy and Thermal Monitoring Techniques
Lee S.

17:30–17:45: ISRSE36-511
Calculating the radiant power of fires and volcanoes
Murphy S.

17:45–18:00: ISRSE36-429
Remote sensing of inland water surface temperatures: possibilities and applications
Fricke K., Baschek B.

END OF ORAL PROGRAMME SENS-2

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

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Berlin (C01)
14:00–15:30
Chairperson(s): Manfred Zink, Irena Hajnsek

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 of the TanDEM-X Global Digital Elevation Model
Bräutigam B., Martone M., Rizzoli P., Gonzalez C., Wecklich C., 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 create a consumer-ready WorldDEM product
Collins J., Riegler G., Tinz M., Schrader H.

END OF ORAL PROGRAMME SENS-5

SENS-6 Data product validation and quality

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Honolulu (A05)
11:00–12:30
Chairperson(s): Albrecht van Bargen, Jörn Hoffmann

11:00–11:18: ISRSE36-198
An International Effort of Space Agencies for Cal/Val: CEOS Working Group Cal/Val
von Bargen A.

11:18–11:36: ISRSE36-243
Importance Of Fiducial Reference Measurements For Satellite Earth Observation Characterisation
Bojkov B R, von Bargen 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.

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.

END OF ORAL PROGRAMME SENS-6

SENS-7 Advances in Lidar remote sensing

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Honolulu (A05)
14:00–15:30

14:00–14:15: ISRSE36-203
Use Of Box-Counting Method To Characterize The Degree Of Foliage Clumping From 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
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., Paringit E.C., Tamondong A.M., Perez A.M.C, Ang M.R.C.O.

END OF ORAL PROGRAMME SENS-7

SENS-8 Advances in Radar remote sensing

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Sydney (B07-08)
16:30–18:00

16:30–16:45: ISRSE36-122
Significant wave height measurements from X-band radar image sequence by utilizing Teager-Huang Transform
Mortazavi M. R., Huang C. J., Wu L. C.

16:45–17:00: 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.

17:00–17:15: ISRSE36-358
Monitoring subsidence in Jakarta using TerraSAR-X data
Wang R.

17:15–17:30: ISRSE36-450
Monitoring of ground deformation in an open pit iron mine based on the combination of
DinSAR time-series and PSI techniques using TerraSAR-X data
Mura J. C., Paradella W. R., Gama F. F., Santos A. R., Silva G. G.

17:30–17:45: 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.

17:45–18:00: ISRSE36-707
A neural network inversion of a three layers Multiscale SPM Model for the retrieval of physical soil parameters
JAAFRI GHAMKI M., HOSNI I., BENNACEUR FARAH L., NACEUR M.S, FARAH I.R

END OF ORAL PROGRAMME SENS-8

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

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Tromsoe (A03)
16:30–18:00

16:30–16:45: ISRSE36-79
Multi-Temporal Monitoring of Thermokarst in the High Arctic
Nitze I., Grosse G., Günther F.

16:45–17:00: 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.

17:00–17:15: ISRSE36-178
Vertical movements of frost mounds in sub-Arctic permafrost regions detected using
Beck I., Ludwig R., Bernier M., Strozzi T., Boike J.

17:15–17:30: ISRSE36-259
Combining optical and radar remote sensing data for the study of organic transport in &8220;thermokarst lake - catchment&8221; systems of Russian Arctic
Dvornikov Y., Leibman M., Heim B., Bartsch A., Hubberten H.-W.

17:30–17:45: 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.

17:45–18:00: ISRSE36-661
Application of a novel polarimetric filter to RADARSAT-2 data of Deception Island (Antarctic Peninsula region) for surface cover characterization
Guillaso S., Schmid T, Lopez-Martinez J

END OF ORAL PROGRAMME POLA-3

AGRI-2 Mapping cropland productivity at the global scale

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Cape Town (A04)
14:00–15:15

14:00–14:15: ISRSE36-58
New method to retreieve vegetation photosynthetic capacity from solar-induce fluorescence for cropland GPP modeling
Zhang Y, Guanter L., Berry J., Joiner J., van der Tol C., Huete A.

14:15–14:30: ISRSE36-331
OPERATIONAL 333m BIOPHYSICAL PRODUCTS OF THE 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.

14:30–14:45: 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.

14:45–15:00: ISRSE36-346
Evaluations on the potential productivity of winter wheat based on agro-ecological zone in the world
wang h.

15:00–15:15: 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., Seguini L., Willems E.

END OF ORAL PROGRAMME AGRI-2

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

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Cape Town (A04)
16:30–18:00

16:30–16:45: 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.-l.

16:45–17:00: ISRSE36-339
Inventory of potential Ecological Focus Areas (EFA) in agricultural landscapes in the context of the Common Agricultural Policy (CAP) Reform
Englhart S., Franke J., Kroll A., Golla B.

17:00–17:15: ISRSE36-371
Drought and food security monitoring using space-derived phenology
Meroni M., Rembold F., Kaytakire F., Urbano F., Schucknecht A., Leo O.

17:15–17:30: 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
Löw F., Fliemann E., Conrad C., Dukhovny V., Muratova N., Ibrakhimov M., Lamers J.P.A.

17:30–17:45: ISRSE36-483
A Spatio-temporal analysis of water consumption in Lower Chenab Canal (LCC) Irrigation System
USMAN M.

17:45–18:00: 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.

END OF ORAL PROGRAMME AGRI-3

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

Lecture Room: Ann Arbor (A08)
12:30–14:00

Wednesday, 13 May 2015

PLEN-3 The Copernicus Era

Lecture Room: Berlin (C01)
09:00–10:30
Chairperson(s): Jörn Hoffmann, Mauro Facchini

Introducing Copernicus - Vision, Status, Outlook, Philippe Brunet, EC

User report 1: "Copernicus in our operations", Chris Steenmans, EEA

User report 2: "Copernicus in our operations", Pierluigi Soddu, Italian National Protection Agency

Copernicus - Opportunities for Science, Ramon Hansen, TU Delft

"Growth" by Copernicus - an SME perspective, Geoff Sawyer, EARSC

NN

END OF ORAL PROGRAMME PLEN-3

DISA-3 Satellite based Vulcano observation

Lecture Room: Stresa (B09)
14:00–15:30

14:00–14:15: ISRSE36-85
Advanced PRocedures for volcanic and Seismic Monitoring
DI IORIO A., Stramondo S.

14:15–14:30: ISRSE36-135
Monitoring the Bardarbunga eruption using GOME-2/Metop-A & -B
Hedelt P., Valks P., Loyola D.

14:30–14:45: ISRSE36-368
DInSAR time series of ENVISAT ASAR dara as inverse solutions of nonlinear static and dy-namic neural models of land subsidence
Ashrafianfar N., Busch W.

14:45–15:00: ISRSE36-406
Deep looks into explosive volcano craters by high resolution SAR observations
Walter T. R.

15:00–15:15: ISRSE36-485
D-InSAR Monitoring of Volcanic Activity over Tatun Mountain in Taiwan
Tsai Y., Lin S., Kim J.

15:15–15:30: ISRSE36-535
Lava Flow Monitoring Using TET-1 Satellite
Zak¨ek K., Lorenz E., Hort M.

END OF ORAL PROGRAMME DISA-3

DISA-4 Fire and burned area monitoring

Lecture Room: Stresa (B09)
11:00–12:30

11:00–11:15: ISRSE36-24
Fire Monitoring - The use of Medium Resolution satellites (like AVHRR, MODIS, TET) for long time series processing of applied research questions (TIMELINE) and the implementation in user driven applications (PHAROS)
Fuchs E.-M., Stein E., 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: ISRSE36-288
Disaster landscape attribution: thermal anomaly surveillance and hazard mapping, data scaling and validation
Jones S.D., Reinke K., Gupta V., Soto-Berelov M., Holden L., Held A., Mitchel S., Eckhardt A., Lehmann F., Skimore A., Grant I.

11:45–12:00: ISRSE36-491
Estimation of The Smoke Emission Rates from Biomass Burning in Sumatera and Kalimantan using Moderate Imaging Spectroradiometer
Sofan P., Suwarsono S., Khomarudin M.R., Roswintiarti O.

12:00–12:15: ISRSE36-613
Real-time stream processing for active fire monitoring on Landsat 8 direct broadcast data
Bohme C., Bouwer P., Prinsloo T.

12:15–12:30: ISRSE36-631
Mapping wildland fuels for fire risk assessment in a complex mediterranean environment
Mallinis G, Mitsopoulos I

END OF ORAL PROGRAMME DISA-4

DISA-5 SAR applications in Disaster Monitoring

Lecture Room: Stresa (B09)
16:30–18:00

16:30–16:45: ISRSE36-136
Tsunami Affected Farmland Extraction Using Morphological Profiles (MPs) Method by Satellite Images Including SAR and Visible Near-Infrared Band Data
Yamada Y.

16:45–17:00: ISRSE36-266
The use of SAR interferometry for landslide mapping in the Indian Himalayas
Vöge M., **Frauenfelder R.**, Ekseth K., Arora M.K., Bhattacharaya A., Basin R.K.

17:00–17:15: ISRSE36-313
Preparation of a national Copernicus-service to support hazard mitigation by surface motion detection
Kalia A. C., Frei M., Lege T.

17:15–17:30: ISRSE36-374
Monitoring subsidence in Jakarta using TerraSAR-X data
Fan J., Wang R.Y., Liang Y.C., Liu G., Ady R., Zhao H.L.

17:30–17:45: ISRSE36-557
InSAR constraints on fault slip models during the 2014 earthquake sequence in the Zagros mountain, SW Iran
Motagh M., Bahroudi A., Haghshenas Haghighi M., Samsonov S., Fielding E., Wetzel H.U

17:45–18:00: 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.

END OF ORAL PROGRAMME DISA-5

DATA-4 Image analysis, correction and information retrieval

Lecture Room: Cape Town (A04)
11:00–12:30

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., PANTALEONI A. V., 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 & Poster Session

14:00–14:15: ISRSE36-399
Enhancement of the double flexible pace search threshold determination for change vector analysis
AZZOUZI S. A., PANTALEONI A. V, BENTOUNES H. A.

14:15–14:30: ISRSE36-534
Topographic Correction Module at Storm (TC@Storm)
Zakšek K., Pehani P., Veljanovski T., ?otar K., 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., Alipour T.

14:45–15:00: ISRSE36-564
A Support Vector Machine-Based Algorithm For Classification Of Fused Hyperspectral And 3K DSM Data
Abbasi B., Arefi H., Bigdeli B.

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.

END OF ORAL PROGRAMME DATA-4

BIOD-3 Forests Mapping and Monitoring

Lecture Room: Beijing (B05-06)
11:00–12:30
Chairperson(s): Douglas Muchoney

11:00–11:18: ISRSE36-573
Estimation of Forest Biomass Productivity based on Remote Sensing and Climate Data
Lehmann P., Lessing R., Schröder J., Körner M.

11:18–11:36: ISRSE36-589
Quantification of the terrestrial phytomass and carbon in the mountainous forest ecosystem using remote sensing and in-situ observations
Patil P

11:36–11:54: 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.

11:54–12:12: 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.

12:12–12:30: ISRSE36-729
Design and operation of Australia’s TERN AusCover Remote Sensing Data Facility & Associated Forest Monitoring Activities
Held A., Phinn S.

END OF ORAL PROGRAMME BIOD-3

BIOD-5 Wildfires

Lecture Room: Beijing (B05-06)
14:00–15:30
Chairperson(s): Vincent Ambrosia

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: ISRSE36-52
Use of Observational and Climate Reanalysis Time-Series Data for Fire-Risk Assessment and Post-Fire Rehabilitation Monitoring in the RECOVER Wildfire Decision Support System
Schnase J. L., Carroll M. L., Weber K. T.

14:54–15:12: 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.

15:12–15:30: 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.

15:30 Coffee Break

16:30–16:48: ISRSE36-233
Estimating sub-pixel patchiness of wildfires in Australia using MODIS data and a linear un-mixing approach
Maier S. W.

16:48–17:06: 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.

17:06–17:24: ISRSE36-105
Enhanced Wildland Fire Management Decision Support Using Lidar-Infused LANDFIRE Data
Peterson B., Jolly W.M.

17:24–17:42: ISRSE36-108
Development of the Advanced Fire Information System
Frost P.

17:42–18:00: 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.

END OF ORAL PROGRAMME BIOD-5

BIOD-7 Various approaches to landcover mapping

Lecture Room: Sydney (B07-08)
14:00–15:30

14:00–14:15: ISRSE36-45
Combining Earth Observations with Animal tracking data- outlining the AniMove.org outreach and education approach
Wegmann M., Safi K., Pettorelli N.

14:15–14:30: ISRSE36-144
A proper Land Cover and Forest Type Classification Scheme for Mexico
Gebhardt S., Maeda P., Wehrmann T., Schmidt M.

14:30–14:45: ISRSE36-145
Mapping threatened dry deciduous dipterocarp forest ecosystems in South-east Asia for conservation management
Wohlfart C., Wegmann M., Leimgruber P.

14:45–15:00: 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

15:00–15:15: ISRSE36-253
Improving land cover maps with multi-temporal, medium resolution hyperspectral imagery, **Clark M.**

15:15–15:30: 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.

15:30 Coffee Break

16:30–16:45: 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., Fujihara M.

16:45–17:00: 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.

17:00–17:15: ISRSE36-581
Estimation of Biomass Carbon Stocks over Peat Swamp Forests using Multi-Temporal and Multi-Polratizations SAR Data
Wijaya A., Liesenberg V., Susanti A., Karyanto O., Verchot L.V.

17:15–17:30: 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.

17:30–17:45: ISRSE36-612

Spatiotemporal monitoring of ukraine steppe ecosystems in climate change mitigation
Ostapenko V., Tkachenko V., Boychenko S., Tomchenko O.

17:45–18:00: ISRSE36-648
A MODIS based methodology for large-scale land use dynamic analysis - a case study in an Amazonian basin
Kuck T., Nogueira E., Parise M.

END OF ORAL PROGRAMME BIOD-7

BIOD-10 Phenology and Biophysical Parameters

Lecture Room: Tromsoe (A03)
14:00–15:30

14:00–14:15: 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.

14:15–14:30: 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.

14:30–14:45: 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.

14:45–15:00: 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., Schmullius C.

15:00–15:15: 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.

15:15–15:30: ISRSE36-262
Object-based random forest classification of endangered lowland native grassland communities in the Tasmanian Midlands, **Melville B.**

15:30 Coffee Break

16:30–16:45: ISRSE36-439
Opportunities of Dense Image 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: ISRSE36-587
Solar angle effect on land surface phenology in tropical savannas
Ma X., Huete A., Davies K.

17:15–17:30: ISRSE36-606
A new physically based vegetation index for improved phenology estimation by remote sensing
Eklundh L., Jin H.

17:30–17:45: ISRSE36-660
A spatially lagged linear mixture model for the improved estimation of subpixel saltcedar cover along the Forgotten River, **Shi C.**, Wang L.

17:45–18:00: 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.

END OF ORAL PROGRAMME BIOD-10

PROG-3 Sentinels for Science: SEOM program results

Lecture Room: Berlin (C01)
11:00–12:30
Chairperson(s): Yves-Louis Desnos, Peter Regner

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., Foumelis 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.

12:00–12:15: ISRSE36-150
SEOM's &8216;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.

END OF ORAL PROGRAMME PROG-3

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

Lecture Room: Berlin (C01)
14:00–15:30
Chairperson(s): Michael Rast, Godela Rosner

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 HyspIRI / ECOSTRESS and EnMAP for Earth system applications
Hook S.

END OF ORAL PROGRAMME PROG-5

ENGY-1 Remote sensing of energy and mineral resources

Lecture Room: Honolulu (A05)
11:00–12:30

11:00–11:15: 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.

11:15–11:30: 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.

11:30–11:45: ISRSE36-396
Thermal and radar remote sensing in support of geothermal exploration in Kenya
Friese A., Hahne K.

11:45–12:00: ISRSE36-578
Modelling and mapping of potential zones for solar energy in Aswan Region, Egypt
Effat H.

12:00–12:15: ISRSE36-583
Fractal dimensions for radioisotope pollution patterns by nuclear power plant accidents
SAITO K., OGAWA S

12:15–12:30: ISRSE36-651
Monitoring of terrain surface deformation due to shale gas hydraulic fracturing by InsSAR, corner reflectors and geodetic observations. Pilot study in Poland
Perski Z., Chowaniec-Tobiasz K., Marinkowic P., Wojciechowski T., Nescieruk P.

END OF ORAL PROGRAMME ENGY-1

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

Lecture Room: Honolulu (A05)
14:00–15:30
Chairperson(s): Steffen Fritz, Jörn Hoffmann

14:00–14:18: ISRSE36-330
Citizen Science for Earth Observation: Applications to environmental monitoring and disaster response
Toivanen T., Molinier M., Häme T., Kotovirta V.

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.

Discussion

END OF ORAL PROGRAMME SENS-3

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

Lecture Room: Berlin (C01)
16:30–18:00
Chairperson(s): Yann Denis, Michael Bock

16:30–16:48: ISRSE36-543
Multi-application InSAR Integration with TerraSAR-X and RADARSAT-2
Rabus B., Ghuman P.

16:48–17:06: ISRSE36-66
High Temporal Resolution Permafrost Monitoring using a Multiple Stack InSAR Technique
Eppler J., Kubanski M., Sharma J., **Busler J.**

17:06–17:24: ISRSE36-238
Advancements in Estimationg Crop Growth Stages Using RADARSAT-2 and TERRASAR-X Polarmetric Data
Lampropoulos G., Li Y.

17:24–17:42: ISRSE36-180

Infrastructure Monitoring in Regions Affected by Permafrost Using High Resolution Multi-Frequency SAR Data
Kiefl N., Prietzsch C., Anderssohn J., Bindrich M.

17:42–18:00: 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., Schmullius C., Koch B.

END OF ORAL PROGRAMME SENS-4

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

Lecture Room: Tromsoe (A03)
11:00–12:30

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.

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.

END OF ORAL PROGRAMME POLA-1

ATMC-4 Human Interaction with Climate and Atmosphere

Lecture Room: Honolulu (A05)
16:30–18:00

16:30–16:45: ISRSE36-41
Time Series Analysis of Satellie-Measured Vegetation Phenology and Aerosol Optical Thickness over the Korean Peninsula
PARK S.

16:45–17:00: ISRSE36-100
Spatio - Temporal Variation of Aerosol and its Relation to Vegetation Cover over Mega-City New Delhi
Pandey A. K., Kumar R. P., Kumar K.

17:00–17:15: 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.

17:15–17:30: ISRSE36-395
Monitoring and Assessment of Regional air quality in China using space Observations (MarcoPolo)
van der A R.J. and the MarcoPolo Team

17:30–17:45: ISRSE36-536
Spatial scales of pollution in Israel
Chudnovsky A, Kostinski A, Lyapustin A, Wang Y

17:45–18:00: ISRSE36-688
Assessing the impact of urbanization on urban climate by remote satellite perspective: a case study in Danang city, Vietnam
Nguyen L.

END OF ORAL PROGRAMME ATMC-4

AGRI-4 Monitoring of managed grasslands

Lecture Room: Cape Town (A04)
16:30–18:00

16:30–16:45: ISRSE36-70
Satellite-based assessment of grassland yields
Grant K., Wagner M., Siegmund R., Baron M., Herrmann A., Taube F., Hartmann S.

16:45–17:00: ISRSE36-353
Estimation of Grass Yield in large region on Geographically Weighted Regression Model
Chengfeng L., Xiujuan Y., Caijuan L., Yinkun D.

17:00–17:15: ISRSE36-432
Biomass estimation to support pasture management in Niger
Schucknecht A., Meroni M., Kayitakire F., Rembold F., Boureima A.

17:15–17:30: 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.

17:30–17:45: ISRSE36-713
Validation of the EO-LDAS Prototype - A Data Assimilation Tool for Crop Monitoring
Truckenbrodt S.C., Schmullius C.C.

17:45–18:00: ISRSE36-716
Application of Historical Ground Data, Satelite Data and Integration of GPS and GIS for Range Monitoring in Arid Rangelands
Arzani H., Frahpour M., Azimi M.

END OF ORAL PROGRAMME AGRI-4

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

Lecture Room: Ann Arbor (A08)
12:30–14:00

The joint EU - Africa Strategy and its EU - Africa Space dialogue (EU speaker, tbc)

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 : MESA project (Dr Abebe, Director Rural Economy and Agriculture Department, African Union Commission)

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

END OF ORAL PROGRAMME SPEC-2

SPEC-3 ABCC Program: Earth Observation for Global Change

Lecture Room: Buenos Aires (A06)
11:00–18:00
Chairperson(s): Wang Changlin

tbd

END OF ORAL PROGRAMME SPEC-3

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

Lecture Room: Ann Arbor (A08)
14:00–18:00
Chairperson(s): Andiswa Mlisa, AfriGEOSS

tbd

Thursday, 14 May 2015

PLEN-4 Global Trends and Challenges in Remote Sensing Technology

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Berlin (C01)
09:00–10:30
Chairperson(s): Gunther Kohlhammer, ESA; Gunter Schreier, DLR

New Approaches in SAR Imaging, Alberto Moreira, DLR

Optical Imaging from the ISS, Keith Beckett, Urthecast

The Power of Crowd Sourcing, NN

Earth Observation with CubeSats, NN

PerspeCloudComputing, Manfred Krischke, CloudEO

New approaches in Earth Observation by Google, Rebecca Moore, Google

END OF ORAL PROGRAMME PLEN-4

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

Lecture Room: Tromsoe (A03)
11:00–12:30

11:00–11:15: ISRSE36-50
Fit-of-use comparative analysis of the Global Human Settlement Layer and the Sealing Surface Layer towards a European Settlement Map
Halkia M., Ferri S., Pesaresi M., Florczyk A., Syrris V., Scavazzon M.

11:15–11:30: ISRSE36-69
An Integrated System for Urban Landfill Detection and Monitoring
Cadau E., Vingione G., Aurigemma R., Laneve G.

11:30–11:45: ISRSE36-197
Identification of urban boundaries based on remote sensing and geographic information system: a case in Wuhan
li y., zhan qm

11:45–12:00: ISRSE36-271
Dynamics of Land Use Land Cover Change in Riyadh Using Settelite Derived Optical Data
Suhail M.

12:00–12:15: ISRSE36-328
Monitoring Commercial and Industrial Brownfields as Urban Resource and Land Use Option - The Case of Leipzig, Germany
Banzhaf E.

12:15–12:30: ISRSE36-566
Urban Growth Assessment Of ALAIN City (UAE) Using Satellite-Derived Imperviousness Index
ISSA S. M. G.

END OF ORAL PROGRAMME SOCI-3

SOCI-1 Cultural heritage and Earth Observation

Lecture Room: Tromsoe (A03)
14:00–15:30
Chairperson(s): Mario Hernandez

14:00–14:18: ISRSE36-84
Innovation Technologies and Applications for Coastal Archaeological sites
DI IORIO A., BILIOURIS D., HANSEN L.B., BAGNI M.

14:18–14:36: ISRSE36-363
Accessibility maps to selected archaeological and touristic sites in south Sinai, Egypt using satellite images
Elbeih S., Zaghloul 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, Vienam
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
Tracking sand dune movements using multi-temporal remote sensing imagery: A case study of the Central Sahara (Libyan Fazzan/ Ubari Sand Sea)
Els A., Merlo S, Knight J

15:30 Coffee Break

Lecture Room: Tromsoe (A03)
16:30–18:00
Chairperson(s): Mario Hernandez

16:30–16:48: ISRSE36-644
Unmanned Aerial Systems and Spectroscopy for Remote Sensing Applications in Archaeology
Agapiou A., **Themsistocelous K.**, Cuca B, Hadjimitsis D.G.

16:48–17:06: ISRSE36-669
Contributions of Remote Sensing for Governance of Natural Resources and Environmental Issues in Darfur, Sudan
Küpper A.

17:06–17:24: 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.

17:24–17:42: ISRSE36-225
Novel platforms and applications for ground-penetrating radar
Collins M.

17:42–18:00: ISRSE36-681
Study of City Landscape Heritage Using Lidar Data and 3d-City Models
Rubinowicz P.

END OF ORAL PROGRAMME SOCI-1

DATA-3 Earth Observation data processing and information systems

Lecture Room: Stresa (B09)
11:00–12:30

11:00–11:15: ISRSE36-17
Information extraction and Dependency on Open Government Data (OGD) for Environmental Monitoring
Abdulmuttalib H., Stobl S.

11:15–11:30: ISRSE36-131
Copernicus Data and Exploitation Infrastructure - a German national collaborative ground segment
Keuck V., Hoffmann J., Staudenrausch H.

11:30–11:45: ISRSE36-143
Automatic Processing of Chinese GF-1 Wide Field of View Images
Zhang Y. J.

11:45–12:00: 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.

12:00–12:15: ISRSE36-204
A POK-based Operational Global Land Cover Mapping and the Data Product GlobeLand30
Chen J., Liao A.P., Chen L.J.

12:15–12:30: 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, Zaletelj J, Rodic T

12:30 Lunch Break & Poster Session

14:00–14:15: ISRSE36-421
Synchronization of Geospatial Data Across Servers and Clients Using Standardized Services and Data Containers
Simonis I., McKee L.

14:15–14:30: 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.

14:30–14:45: ISRSE36-530
InterIMAGE Cloud Platform: towards the architecture of an open-source, distributed platform for automatic, knowledge-based image interpretation
Ferreira R. S., Oliveira D. A. B., Happ P. N., Costa G. A. O. P., Feitosa R. Q., Bentes C.

14:45–15:00: ISRSE36-593
Cloud Optimized Image Format and Compression
Becker P.

15:00–15:15: ISRSE36-601
Software framework for building modern Earth-observation data processing and archiving environments
Recher St., Scheidgen P.

15:15–15:30: 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., Kleinschmit B., Trapp M.

END OF ORAL PROGRAMME DATA-3

DATA-5 Data applications and quality assessment

Lecture Room: Stresa (B09)
16:30–18:00

16:30–16:45: ISRSE36-38
Harmonisation Initiatives of COPERNICUS Quality Control
Vescovi F.D., Lankester T., Coleman E., Ottavianelli G.

16:45–17:00: ISRSE36-75
Geomatics for Mapping of Groundwater Potential Zones in Northern Part of the United Arab Emiratis - Sharjah City
Al-Ruzouq R., Shanableh A., Merabtene T.

17:00–17:15: ISRSE36-98
Validation of aerosol estimation in atmospheric correction algorithm ATCOR
Pflug B., Main-Knorn M., Makarau A., Richter R.

17:15–17:30: 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.

17:30–17:45: 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.

17:45–18:00: 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.

END OF ORAL PROGRAMME DATA-5

BIOD-4 Biodiversity and conservation

Lecture Room: Beijing (B05-06)
14:00–15:30
Chairperson(s): Martin Wegmann, Matt Hansen

14:00–14:18: 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., Kuemmerle T., Pidgeon A.M., Rondinini C., Suttidate N.

14:18–14:36: ISRSE36-88
Development and use of a new suite of global, remote sensing based environmental layers for biodiversity monitoring and prediction
Jetz W.

14:36–14:54: ISRSE36-409
Land cover change impacts on biodiversity in Mt. Kilimanjaro savanna zone
Hurskainen P., Hemp A., Pellikka P.K.E., Pfeifer M.

14:54–15:12: ISRSE36-435
Biodiversity knowledge and loss of natural vegetation in protected areas in Sub-Saharan Africa
Szantoi Z., Stropp J., Brink A.

15:12–15:30: 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.

15:30 Coffee Break

Lecture Room: Beijing (B05-06)
16:30–18:00
Chairperson(s): Woody Turner,

16:30–16:48: ISRSE36-595
Application of remote sensing-derived data to species distribution models
Garzon-Lopez C., Rocchini D, Metz M, Neteler M

16:48–17:06: ISRSE36-210
Discrete versus continuous spatial representation of habitats for modeling distribution patterns of avifauna
Sheeren D., Lefevre S., Bonthoux S.

17:06–17:24: 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.

17:24–17:42: 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.**

17:42–18:00: ISRSE36-160
Spatial ecological complexity as a proxy of biodiversity
Rocchini D., Wegmann M., Metz M., Delucchi L., Neteler M.

END OF ORAL PROGRAMME BIOD-4

BIOD-5 Wildfires

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Beijing (B05-06)
11:00–12:30
Chairperson(s): Vincent Ambrosia

11:00–11:18: ISRSE36-101
Remote Sensing of High Temperature Events by the FireBird Mission
Lorenz E.

11:18–11:36: ISRSE36-73
Fire Pathways Towards Deforestation: How Do Current Satellite Monitoring Systems Solve the Problem?
ROMAN-CUESTA RM., Herold M., Murdiyaso D., Gabo D., Setzer A.

11:36–11:54: 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.

11:54–12:12: ISRSE36-492
High Temperature Fire Experiment for Validation of OOV-TET1 and Landsat 8 on the DLR Testsite Demmin (North-Eastern Germany)
Borg E., Frauenberger O.

12:12–12:30: 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.

END OF ORAL PROGRAMME BIOD-5

BIOD-8 Land cover change mapping

Lecture Room: Sydney (B07-08)
14:00–15:30

14:00–14:15: ISRSE36-16
Land cover change analysis in Mexico using 30m Landsat and 250m MODIS data
Colditz R., Llamas R., Ressl 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: ISRSE36-94
Assessment of Land use/land cover changes in the Savanna sugar project area of Adamawa state, Nigeria
ADEBAYO A., **YAHYA A.S.**

14:45–15:00: 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.

15:00–15:15: ISRSE36-202
A high resolution LS-factor dataset at 25m for soil erosion modelling
Panagos P., Borrelli P., Meusburger K., Alewell C.

15:15–15:30: ISRSE36-212
Satellite-based drought monitoring in Kenya in an operational setting
Klisch A., Atzberger C., Luminari L.

15:30 Coffee Break

16:30–16:45: ISRSE36-229
High Resolution, Wide Area Detection of Anthropogenic Forest Change Using RADARSAT-2
Staples G., van der Kooij M

16:45–17:00: ISRSE36-296
Development of Drought Monitoring System Based on Satellite Data and Ground Measurements
Kokalj ´., ´ibert J., Rogelj P., Ir¨i? ´ibert M., Muri B., **O¨tir K.**

17:00–17:15: ISRSE36-311
Mapping the distribution of a rapidly spreading alien invasive plant (Melia azedarach)
using remote sensing
Gebreslasie M., Gairola S., Proche? ?, Rocchini D

17:15–17:30: ISRSE36-315
Studying the effect of UV-B radiation on the distribution of invasive species using remote sensing data
Vaclavik T., Foltanek M., Beckmann M., **Cord A.F.**

17:30–17:45: 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.

17:45–18:00: 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.

END OF ORAL PROGRAMME BIOD-8

BIOD-9 Wetlands and coastal observations

Lecture Room: Sydney (B07-08)
11:00–12:30

11:00–11:15: ISRSE36-191
Detection and characterizacion 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., Tobaschus 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, Térraba-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., Schmullius 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.

END OF ORAL PROGRAMME BIOD-9

PROG-7 Outlook on commercial Earth Observation Systems

Lecture Room: Berlin (C01)
11:00–12:30
Chairperson(s): Peter Schaadt

11:00–11:15: ISRSE36-725
Breaking the Super-Sprectral Imaging Barrier with Worldview-3
Marchisio G., Johnston C., Tusk C., Baugh W., Gueguen L., Ouzounis G., Marchetti A.

11:15–11:30: ISRSE36-361
Earth Observation Activities from Airbus Defence and Space
Menking M.

11:30–11:45: ISRSE36-516
BlackBridge's RapidEye+ Strategy
Johnson R.

11:45–12:00: 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.**

12:00–12:15: ISRSE36-727
UrtheCast Second-Generation Earth Observation Sensors
Beckett K.

12:15–12:30: ISRSE36-113
Earth Observation, State of Play and Future Prospects
Topham R., **Keith A.**, Revillon P.

END OF ORAL PROGRAMME PROG-7

MARI-1 Maritime awareness and traffic observation

Lecture Room: Buenos Aires (A06)
11:00–12:15

11:00–11:15: 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.

11:15–11:30: ISRSE36-217
Tracking Vessels to Illegal Pollutant Discharges Using Multi-source Vessel Information
Busler J, Wehn H, Woodhouse L

11:30–11:45: ISRSE36-230
Assessment of C,L,X-band Spaceborne SAR for Maritime Domain Awareness
Staples G., Hurley J, Logan T

11:45–12:00: ISRSE36-404
Importance of wave removal in vessel detection on VHR optical imagery
Kanjir U., ?otar K., Marseti? A., Pehani P., O¨tir K.

12:00–12:15: ISRSE36-433
Near Real Time Applications for Maritime Situation Awareness
Schwarz E., Krause D., Berg M., Daedelow H., Maass H.

END OF ORAL PROGRAMME MARI-1

SENS-1 UAS for resource assessment

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Berlin (C01)
14:00–15:30
Chairperson(s): Vincent Ambrosia

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 resource assessment
Dunagan S., Fladeland M., Ippolito C., Knudson M.

14:54–15:12: ISRSE36-525
Utlization 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

Lecture Room: Berlin (C01)
16:30–18:00
Chairperson(s): Vincent Ambrosia

16:30–16:48: ISRSE36-565
Gyrocopter-based remote sensing platform
Weber I., Jenal A., Kneer C., Bongartz J.

16:48–17:06: ISRSE36-517
Unmanned Aerial Vehicles (UAVs) for Ground Truth Data Collection for Land Cover Change Estimation of Primate Habitats
Szantoi Z., Wich S., Koh L.P.

17:06–17:24: ISRSE36-383
Geological Disaster Monitoring by Using Unmanned Aerial Vehicle Remote Sensing Data on Android Platform
Wei Z., Hongtao Z., Jing S., Qihua Z.

17:24–17:42: ISRSE36-190
Unmanned airborne systems blur the line between field survey and remote sensing
Joyce K.E, Maier S.W

17:42–18:00: ISRSE36-663
Detailed and highly accurate 3D-models of high mountain areas by the MACS-Himalaya aerial camera platform
Brauchle J.

END OF ORAL PROGRAMME SENS-1

SENS-9 Approaches to optical data quality

Lecture Room: Honolulu (A05)
11:00–12:15

11:00–11:15: ISRSE36-74
calibration of landsat-8 tirs bands for environment change detetion
Caselles V.

11:15–11:30: ISRSE36-169
Multisensor image fusion guidelines in remote sensing
Pohl C.

11:30–11:45: ISRSE36-400
Validation of spectral continuity between PROBA-V and SPOT-VEGETATION global daily datasets
Dierckx W., Swinnen E., Kempeneers P.

11:45–12:00: ISRSE36-419
Comparison of unsupervised vegetation classification methods from VHR images after shadows removal by innovative algorithms
Movia A., Beinat A., Crosilla F.

12:00–12:15: ISRSE36-560
Proximal soil sensing with imaging spectroscopy: effects of removing micro-shadows from image data for soil analysis
Vohland M., Jung A., Thiele-Bruhn S.

END OF ORAL PROGRAMME SENS-9

ATMC-2 Atmosphere remote sensing techniques and Missions

Lecture Room: Honolulu (A05)
14:00–15:30

14:00–14:15: 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.

14:15–14:30: 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

14:30–14:45: 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.

14:45–15:00: ISRSE36-174
Global Climate Observations - a Roadmap to the Future
Richter C., Dolman A.J., Briggs S. A., Simmons A.J.

15:00–15:15: 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

15:15–15:30: ISRSE36-290
Observing Methane from Space - The French German LIDAR Mission MERLIN
Alpers M., Ehret G., Flamant P., Millet B.

15:30 Coffee Break

16:30–16:45: ISRSE36-322
The CEOS Atmospheric Composition Constellation: Enhancing the value of space-based observations
Eckman R.S., Zehner C., Al-Saadi J.

16:45–17:00: ISRSE36-335
Climate Absolute Radiance and Refractivity Observatory (CLARREO)
Leckey J.

17:00–17:15: ISRSE36-494
Satellite radiothermovision of atmospheric mesoscale processes: case study of tropical cyclones
Ermakov D.M., Sharkov E.A., Chernushich A.P.

17:15–17:30: ISRSE36-518
Towards Disentangling Natural and Anthropogenic GHG Fluxes from Space - The CarbonSat Earth Explorer 8 Candidate Mission
Bovensmann H.

17:30–17:45: ISRSE36-533
Cloud Photogrammetry from Space
Zak¨ek K., Gerst A., Hort M.

17:45–18:00: 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.

END OF ORAL PROGRAMME ATMC-2

AGRI-5 Different approaches to crop and cropland mapping

Lecture Room: Cape Town (A04)
11:00–12:30

11:00–11:15: 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.

11:15–11:30: ISRSE36-148
Dynamic time warping applied to spatiotemporal agriculture mapping in the Brazilian Amazon
Maus V., Câmara G., Cartaxo R., Ramos F.

11:30–11:45: ISRSE36-350
Research on influence factors of crop acreage estimation based on classification technology
Zhang H.

11:45–12:00: ISRSE36-380
Farm land in the Brazilian Amazon - satellites see more than the Agricultural Census
Buurman M., Câmara G.

12:00–12:15: 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.

12:15–12:30: ISRSE36-616
Assessment of soil erosion: insight from SAR data, empirical erosion model and artificial neural networks
Ebrahimzadeh S., Motagh M., Sharifi M.A.

END OF ORAL PROGRAMME AGRI-5

AGRI-6 Targeted quantification of crop parameters

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Cape Town (A04)
14:00–15:15

14:00–14:15: ISRSE36-81
Mapping maize (Zea mays L.) Seasonality for Capturing Changes in Stemborers Occurrence
Abdel-Rahman E.M, Landmann T., Kyalo R.

14:15–14:30: ISRSE36-168
The role of radar remote sensing in oil palm plantation monitoring
Pohl C., Loong C. K.

14:30–14:45: ISRSE36-231
Remotely sensed wheat yield prediction using multi-temporal NDVI derived from Landsat data
ABOELGHAR M., ELSHIRBANY M., ALI A., ABOUHADID A.

14:45–15:00: ISRSE36-445
The Tasseled Cap Transformation for RapidEye data
Schönert M., Weichelt H.

15:00–15:15: ISRSE36-717
Determining Oil Palm Age from SPOT-6 Imagery
Carolita I., Sitorius J.

END OF ORAL PROGRAMME AGRI-6

AGRI-7 Modeling crop yields

Lecture Room: Cape Town (A04)
16:30–18:00

16:30–16:45: ISRSE36-29
Rice Crop Monitoring and Yield Assessment with MODIS 250m Gridded Vegetation Products, A Case Study of Sakeo Province, Thailand.
Wijesingha J.S.J|, Deshapriya N.L|, Samarakoon L|

16:45–17:00: ISRSE36-55
Prediction of crop yield and sub-field heterogeneity: a comparison of three models
Machwitz M., Schlerf M., Buchner J.

17:00–17:15: ISRSE36-185
Comparison of biophysical and satellite predictors for wheat yield forecasting in Ukraine
Kolotii A., Kussul N., Shelestov A., Skakun S., Ostapenko V.

17:15–17:30: ISRSE36-324
Relationships between primary production and crop yields in semi-arid and arid irrigated agro-ecosystems
Jaafar H., Ahmad F.

17:30–17:45: 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.

17:45–18:00: ISRSE36-711
Rice Crop Monitoring and Yield Estimation Through Cosmo Skymed and TerraSAR-X: A SAR-Based Experience in India
Pazhanivelana S., Kannan P., Christy Nirmala Marya P., Subramaniana E., Jeyaramana S., Nelson A., setiyano T., Holez F., barbeiri M., Yadav M.

END OF ORAL PROGRAMME AGRI-7

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

Lecture Room: Buenos Aires (A06)
14:00–15:15
Chairperson(s): Juliane Huth, Claudia Künzer

14:00–14:15: 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.

14:15–14:30: ISRSE36-220
MONITORING PEARL RIVER DELTA MEGA-REGION DYNAMIC CHANGES FROM 1970s TO 2015 BY OBJECT-BASED SVM METHOD
Jiang T., Sun Z., Wang S., Lv M.

14:30–14:45: 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.

14:45–15:00: ISRSE36-5
Soil Degradation Assessment in North Nile Delta Using Remote Sensing and GIS Techniques
ElNahry A.

15:00–15:15: ISRSE36-82
Deriving water surfaces with WaMaPro - Observation of water surface dynamics of the Yellow River Delta
Huth J., Ahrens M., Kuenzer C.

END OF ORAL PROGRAMME WACY-1

WACY-2 Remote sensing of rivers and water bodies

Lecture Room: Buenos Aires (A06)
16:30–18:00

16:30–16:45: 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.**

16:45–17:00: ISRSE36-252
Land Use / Cover Classification and Accuracy Assessment Using Remote Sensing and GIS Techniques - a Case Study of Ghataprabha River Basin
Panda R.K.

17:00–17:15: ISRSE36-309
A comparison between optical and SAR imagery for estimating discharge from river width
Elmi O., Tourian M J., Sneeuw N.

17:15–17:30: ISRSE36-364
Determining and Monitoring the Water Quality of Kizilirmak River of Turkey
Gürsoy Ö., **Birdal A. C.**, Özyanar F.

17:30–17:45: 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.

17:45–18:00: ISRSE36-638
Hyperspectral and multispectral based ET estimates from an energy balance model in a wetland area
Szporak-Wasilewska S., Berezowski T., Kleniewska M., Fortuniak K., Pawlak W., Szaty?owicz J., Chorma?ski J.

END OF ORAL PROGRAMME WACY-2

Friday, 15 May 2015

DISA-6 New systems and algorithms in Disaster Monitoring

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Stresa (B09)
09:00–10:30

09:00–09:15: ISRSE36-60
SAR-based change detection using hypothesis testing and Markov random field modelling
Cao W., Martinis S.

09:15–09:30: ISRSE36-167
An Approach towards Development of Integrated Drought Index through Remote Sensing
Abbas S.

09:30–09:45: 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.

09:45–10:00: ISRSE36-379
Data Collection for Disaster Response from the International Space Station
Stefanov W.L., Evans C.A.

10:00–10:15: ISRSE36-650
Application of hi-resolution InSAR and in-situ measurements for 3d landslide deformation pattern retrieval. Case study of "Just landslide"
Perski Z., Marinkovic P., Wojciechowski T., Michalski A., Chowaniec-Tobiasz K., Nescieruk P.

10:15–10:30: ISRSE36-666
Extraction of urban information from multi-resolution optical satellite imagery for seismic hazard assessment
Djenaliev M.Sc.

END OF ORAL PROGRAMME DISA-6

SOCI-4 The human footprint and human health

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Tromsoe (A03)
09:00–10:30

09:00–09:15: ISRSE36-31
Identifying high-risk leptospirosis areas in Sao Paulo using RapidEye images, Aster GDEM2 and geomorphological data
Ferreira M., Marujo Ferreira M.F.

09:15–09:30: ISRSE36-54
Using Light-at-Night (LAN) Satellite Data for Identifying Clusters of Economic Activities in Europe
Rybnikova N.A., Portnov B.A.

09:30–09:45: ISRSE36-89
Recent advancements in fine spatial resolution remote sensing of night lights from space
Levin N.

09:45–10:00: ISRSE36-99
Using Remote Sensing and GIS techniques to adress relationn between Arsenic distribution and cancer in Iran
Rashidi M., Zohari M

10:00–10:15: ISRSE36-550
Dynamics and Trend of Nighttime Stable Light over Indian urban centres using DMSP OLS through Inter-calibration and its Relation with Demographic and Socio-economic Indices
Mukhopadhyay S., Gupta P.K

10:15–10:30: ISRSE36-668
Earth Observation and Development Banks - view from a service provider perspective on recent developments
Fockelmann R.

END OF ORAL PROGRAMME SOCI-4

BIOD-4 Biodiversity and conservation

Main Session Organizer:
Deputy Session Organizer:
Lecture Room: Beijing (B05-06)

09:00–10:30
Chairperson(s): Martin Wegmann

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
Menselsohn S, **de Klerk H. M.**, Meyburgh B.

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.

END OF ORAL PROGRAMME BIOD-4

BIOD-8 Land cover change mapping

Lecture Room: Sydney (B07-08)
09:00–10:30

09:00–09:15: ISRSE36-465
Towards forest change tracking using Sentinel 1, 2 and 3 satellites
Verbesselt J., DeVries B., Dutrieux L., Reiche J., Herold M.

09:15–09:30: ISRSE36-475
Change Detection of Land Use/Land Cover Using LANDSAT Images Over The Past 40 Years (1972-2012) in Northeastern Thailand
MA Y.

09:30–09:45: ISRSE36-526
Understanding the role of vegetation fires in land cover change dynamics in Eastern Africa
Palumbo I., Temperley W., Graziano M., Brink A.

09:45–10:00: ISRSE36-561
Tree cover patterns and changes in the West Sudanian Savanna and observed socio-economic impacts
Gessner U., Knauer K., Kuenzer C.

10:00–10:15: ISRSE36-569
A Global Assessment Of Degraded Ecosystems Restoration
Fernandez M., Navarro L., Marques A., Wolf F., Pereira H.

10:15–10:30: ISRSE36-487
Quantifying biophysical effects of land use change at global scale with satellite Earth observations
Duveiller G., Cescatti A.

END OF ORAL PROGRAMME BIOD-8

PROG-4 Science applications related to spaceborne imaging spectroscopy missions

Lecture Room: Berlin (C01)
09:00–10:30
Chairperson(s): Uta Heiden, Saskia Förster

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'Olmo G., Simis S., Groom S., Présing M., Razinkovas-Baziukas A., Diana Vai?i?t? 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
Chabrillat S., Foerster S., Schmid T., Ben-Dor E., Segl K.

END OF ORAL PROGRAMME PROG-4

SENS-10 Optical airborne and space systems

Lecture Room: Honolulu (A05)
09:00–10:15

09:00–09:15: ISRSE36-37
Limits to the detectability of flowering plants within semi-arid savannas using 0.6-meter airborne hyperspectral data
Landmann T., Makori D., Piiroinen R., Abdel-Rahman E., Kyalo R., Pellikka P., Raina S.R.

09:15–09:30: 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.

09:30–09:45: 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.

09:45–10:00: ISRSE36-341
Airborne Camera System for real-time Applications - Support of a national Civil Protection Exercise
Gstaiger V., Rosenbaum D., Römer H.

10:00–10:15: 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.

END OF ORAL PROGRAMME SENS-10

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

Lecture Room: Cape Town (A04)
09:00–10:30

09:00–09:15: 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

09:15–09:30: 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.

09:30–09:45: ISRSE36-452
Effects of snow on satellite-derived crop phenology in Canadian Prairies
Dong T., Huffman T., Shang J., Liu J., Qian B., Geng X.

09:45–10:00: 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.

10:00–10:15: ISRSE36-622
Development of Multi-temporal Model for Frost Prediction on Agricultural Land exploiting MODIS satellite observations
LOUKA P., **PETROPOULOS G.**, PAPANIKOLAOU I.

10:15–10:30: ISRSE36-658
Mapping cropland parameters - Results from the Central Asian Water (CAWa) project
Conrad C., Löw F., Unger-Shayesteh K.

END OF ORAL PROGRAMME AGRI-8

WACY-3 Approaches in water remote sensing

Lecture Room: Buenos Aires (A06)
09:00–10:30

09:00–09:15: ISRSE36-456
Annual mapping of water surfaces at 25 cm in a regional monitoring context
d'Andrimont R., Marlier C., Defourny P.

09:15–09:30: 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.

09:30–09:45: ISRSE36-582
Application of Earth Observation technologies for rural water management in Lower Austria
Vuolo F., Neugebauer N., Essl L.

09:45–10:00: 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.

10:00–10:15: 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.

10:15–10:30: ISRSE36-702
Energy water balance model calibration using land surface temperature from remote sensing
Corbari C, Mancini M

END OF ORAL PROGRAMME WACY-3

PLEN-5 Perspectives on the Future of Global Earth Observation

Lecture Room: Berlin (C01)
11:00–12:30

Rolf Skatteboe, KSAT

Jean-Noel Thepaut, ECMWF

Pascale Ultré-Guerard, CNES

Matthew Hansen, University of Maryland

Michael Menking, Airbus Defence & Space

Ryan Johnson, Blackbridge

END OF ORAL PROGRAMME PLEN-5

CLOSE Closing Ceremony

Lecture Room: Berlin (C01)
12:30–13:30
Chairperson(s): Charles Hutchinson, Helmut Staudenrausch

Awards of the 36th ISRSE, Per Erik Skrovseth, ICORSE

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

Announcement of the 37th ISRSE, NN

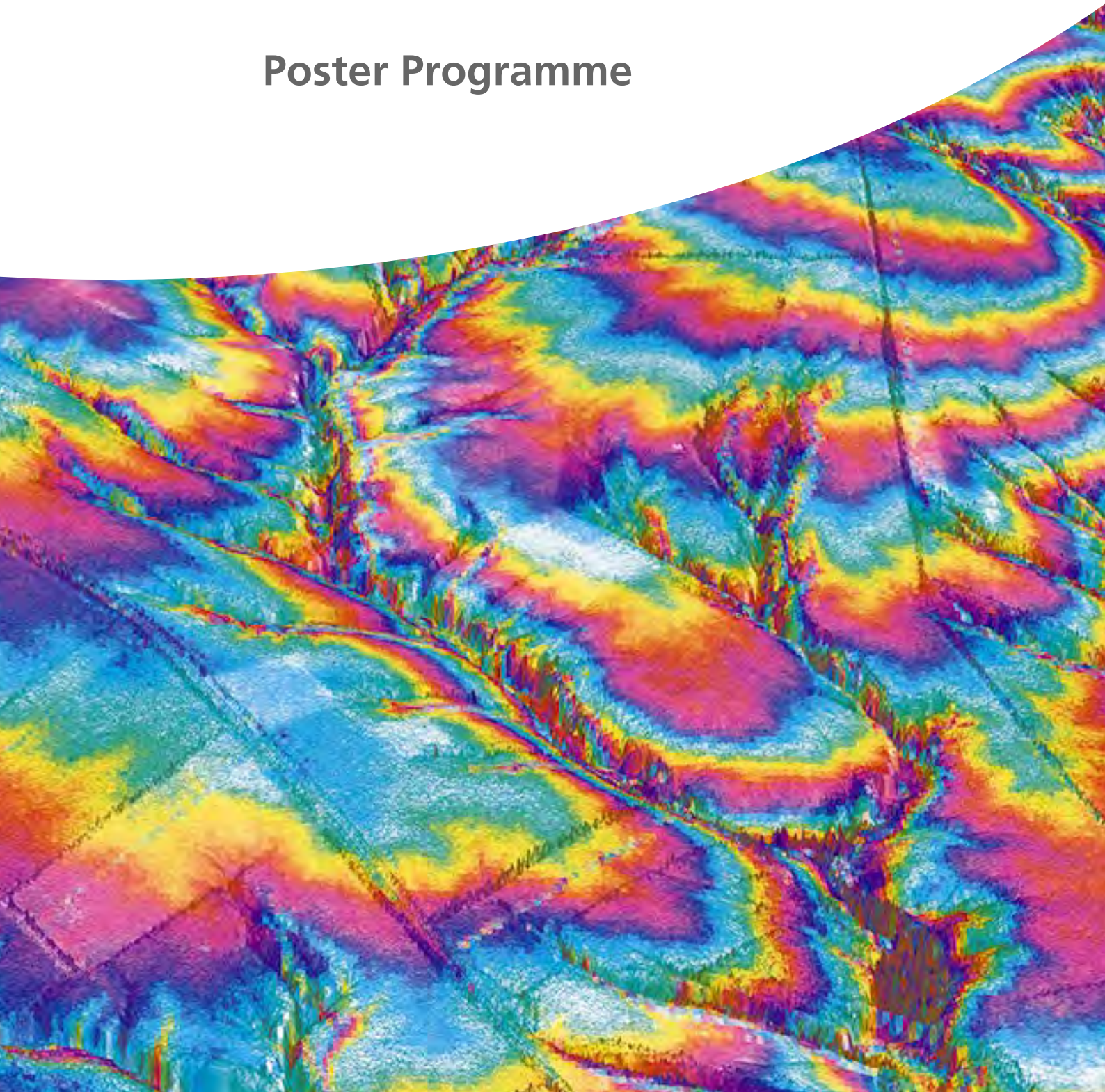
NN

Closing of the 36th ISRSE, Helmut Staudenrausch, DLR

END OF ORAL PROGRAMME CLOSE

ISRSE36
Berlin 2015

Poster Programme



isrse36: **Poster Programme**

Monday, 11 May 2015

DISA-P DISA Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

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
Inferring landslide pixels from radar images by applying GIS-based multi-criteria filtering analysis
Beyene F., Knospe S., Busch W.

P3: ISRSE36-112
Detection of oil pollution hotspots through the quantitative assessment of the persistence and temporal repetition of regular oil spills in the Caspian Sea using RADARSAT-2
Bayramov Dr., Rustamov Dr., Bayramov Dr.

P4: 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.

P5: ISRSE36-206
Mapping landslides using remote sensing technologies: a case study of central region of Kenya
Mwaniki M., Möller M., Schellmann G.

P6: ISRSE36-239
Combined use of SAR and optical data for the assessment of ecological consequences of refugee camps in semiarid landscapes
Braun A., Hochschild V.

P7: 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.

P8: 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.

P9: ISRSE36-289
Copernicus service in support of geohazard assessment and regional planning in the region Rhine-Moselle (Rhineland-Palatinate, Germany)
Wolf C.

P10: ISRSE36-302
The Potential Of Geomatics In The Realization Of A Map Of Desertification Sensitivity Southern Massif Belezma (Batna).
Hassen B.

P11: ISRSE36-340
Jamuna River Erosional Hazards, Accretion & Annual Water Discharge &8212; A Remote Sensing & Gis Approach
Pahlowan E.U., Hossain A.T.M. S.

P12: ISRSE36-384
A Study of the Glacier Flow Velocity in the Tianshan Mountains Based on High Resolution SAR
Fan J.H., Zhao H.L., Wang R.Y., Liu G.

P13: ISRSE36-414
Damage Assessment for Disaster Relief Efforts Based on Multi-Source Remote Sensing Data
Legeer B., **Bahr T.**

P14: ISRSE36-467
Identity of the active landslides by DInSAR along Yangzi River in Yichang, China
Fan J., Zhao H.L., Liu G., Wang R.Y.

P15: ISRSE36-469
Crustal motion in Canterbury region, New Zealand from a decade of multi sensor satellite interferometry observations
Faegh Lashgary P., Motagh M., Townend J., Williams C., Hamling I.

P16: ISRSE36-489
The effect of configuration on wildfire detection and background estimation
Mitchell S., Jones SD., Reinke K.

P17: ISRSE36-493
Analysis of landslide hazard area in Ludian earthquake based on Random Forests
jingchun X

P18: 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.

P19: ISRSE36-538
Real Aperture Radar Interferometry - Practical Application of a Monitoring System in Western Norway
Ekseth K.

P20: ISRSE36-554
Application of polarimetric optimizatiom methods in surface deformation monitoring using InSAR
Esmaeili M.

P21: ISRSE36-576
Bridge stability analysis using TerraSAR-X spotlight mode data
Hosseini F., Motagh M., Sharifi M.A.

P22: ISRSE36-586
Multi-sensor approach to address land subsidence in Mashhad, northeast Iran
Zohari M., Motagh M, Esmaili M., Mojaradi B.

P23: ISRSE36-614

High Rate Earth Surface Subsidence Monitoring Using TerraSAR-X data with SAR Interferometry
mirshahi f.s., valadanzoej M.J., dehghani M., hashemi M.

P24: ISRSE36-673

Assessing land degradation and desertification in Iberian Peninsula using satellite information
Gouveia C.M., Ramos P., Russo A., Bastos A., Trigo R.M.

P25: ISRSE36-686

Fire Risk Assessment Using Remote Sensing and GIS: Case Study of Büyük Menderes River Basin of Turkey
Erdogan M.A., Tuncay H.E., Berberoglu S.

P26: 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.

END OF POSTER PROGRAMME DISA-P

SOCI-P SOCI Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P27: ISRSE36-270
Remote sensing and quantification of the Urban Heat Island in Morocco; Impact on Climate Surface
FATHI N.

P28: ISRSE36-280
Extraction of Rural Built-up Land Features from Satellite Images
Keshtkar H.R.

P29: ISRSE36-428
Urban Density Indices Using Mean Shift-Based Upsampled Elevetion Data
Charou E., Gyftakis S., Bratsolis E., Papadopoulou Th. D., Tsenoglou T., Vassilas N.

P30: ISRSE36-474
Association between Urbanization and Air Temperature from a 3-D Perspective using Remote Sensing
Wu C.-D., Lung S.C.-C.

P31: ISRSE36-479
Evaluation of the Landscape Dynamics for the Forescene, Backscene &
Impact Zone of Bosphorus - Istanbul
Gulnerman A.G., Bektas Balcik F., Goksel C., Ertekin O.

P32: ISRSE36-540
Identification of paleolake stages by multisensoral remote sensing
Bachofer F., Quénéhervé G., Märker M., Hochschild V.

P33: ISRSE36-640
Determination of Impervious Surfaces of Istanbul Using LANDSAT-8 OLI
BEKTAS BALCIK F., ERGENE E. M.

P34: 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.

END OF POSTER PROGRAMME SOCI-P

DATA-P Data Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P35: ISRSE36-102
WPS-based technology for client-side remote sensing data processing
Kazakov E., Terekhov A., Kapralov E., **Panidi E.**

P36: ISRSE36-117
SAR Interferogram Filtering Method Based on Empirical Mode Decomposition
Song R., Guo H.D., Liu G.

P37: ISRSE36-213
New algorithms for handling scientific data formats in java based geographical information systems
Vázquez-Rodríguez R., Pérez-Risquet C., Torres J. C.

P38: ISRSE36-254
Multidimensional Geospatial Data Integration Approach to Study the Geo-Environmental & Socio-economic Vulnerability Due to Climate Change. Case study: Cyclone Aila Affected Dacop and Koyra Upazila
Rahman S., **Shahid S.**

P39: 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.

P40: ISRSE36-344
Speckle filtering in POLSAR images by bilateral distance
Boutarfa S., Bouchemakh L., Smara Y.

P41: 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.

P42: ISRSE36-418
Complex data analysis in the cloud with the ENVI / IDL Services Engine
Bahr T., **Meininger M.**

P43: ISRSE36-459
Use and application of photogrammetry software to develop geospatial products. Case study: Tárcoles river basin, Costa Rica
Vargas C.

P44: 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.

P45: ISRSE36-464
Costa Rica experience of a geomatic, airborne and remote sensing data laboratory
Miller C.

P46: ISRSE36-498

Spatial Multi-criteria Decision Analysis for Site Suitability Assessment for Solid Waste Management in Meghalaya

mipun b., mondal m., hazarika r.

P47: ISRSE36-500

The Height Detection of Buildings Based on Cyclic Beamforming Tomographic SAR

Peng X., Li X.W., Wang C.C, Li Z.W., Liang L., Du Y.N.

P48: ISRSE36-634

Vessel Trajectory Inference via Peer Data

Seotlo M.V., Twala B., Kleynhans W., Salmon B.P.

P49: ISRSE36-641

Shadow detection improvement using spectral indices and morphological operators in high resolution images from urban areas

Azevedo S. C., Silva E. A.

P50: ISRSE36-654

Collaboration Pathway(s) using New Tools for Optimizing &8216;Operational' Climate Monitoring from Space

Helmuth D.

END OF POSTER PROGRAMME DATA-P

PROG-P PROG Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P51: ISRSE36-12
Educational strategies for building a diverse geospatial technology workforce
Vlahovic G., Malhotra R.

P52: ISRSE36-78
Pull vs. Push: How OmniEarth Delivers Better Earth Observation Information to Subscribers
Fish C., Slagowski S., Dyrud L., Fentzke J., Hargis B., Steerman M.

P53: ISRSE36-121
Remote Sensing Tertiary Education Meets High Intensity Interval Training
Joyce K.

P54: ISRSE36-512
Potentials and challenges of student project works in remote sensing since the opening of the Landsat imagery archives
Schaab G., Pfeiffer B.

P55: 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.

P56: ISRSE36-632
Global Change Research at the DLR Earth Observation Center Using Copernicus Sentinel Data
Klein D., Schreier G., Dech S.

P57: 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.

END OF POSTER PROGRAMME PROG-P

Tuesday, 12 May 2015

BIOD-P BIOD Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P1: ISRSE36-11
GLOBIL: WWF's Global Observation and Biodiversity Information Portal
Shapiro A., Nijsten L.

P2: ISRSE36-20
Multitemporal Classification to Evaluate a Transitional Forest Landscape, Brazil
Bicudo da Silva RF, Batistella M, Moran EF, LU D

P3: ISRSE36-22
Distribution of high altitude peatlands in Broghil valley from Landsat TM data
Khan A., Hansen M., Hubacek K., Said A.

P4: ISRSE36-27
Assessing REDD+ opportunities in Southern Africa with global and regional data
Pereira M., Avitabile V., Herold M.

P5: ISRSE36-40
Evaluating the Impacts of Land-Cover and River Morphological Changes to Runoff Generation in a Philippine River Basin: Analysis Based on Landsat Images and Hydrologic Modeling
Santillan M., Santillan J.

P6: ISRSE36-67
Feature extraction from geoeye-1 stereo pairs data for forested area
Stournara P., Tsakiri-Strati M., Tsioukas V., Kaimaris D., Georgiadis C.

P7: 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., Tsioukas V., Siachalou S., Doxani G., Mallinis G.

P8: ISRSE36-111
MONITORING GLOBAL MEGACITES GROWTH WITH LANDSAT IMAGERY USING OBJECT-BASED SVM METHOD FROM 1970s TO 2015
Sun Z., Guo H., Wang S., Jiang T., **Yu S.**, Lv M.

P9: ISRSE36-124
Quantifying biophysical characteristics and mangrove health: Rapid Creek, Darwin, Australia
Heenkenda M., Joyce K.E., Maier S.W.

P10: ISRSE36-127
Optimization of forest age-dependent light-use efficiency and its implications on climate-vegetation interactions in china
Li Z., Zhou T.

P11: ISRSE36-133
Sar-optical synergy in savanna ecosystem fractional vegetation cover mapping
Odipo V. O.

P12: ISRSE36-146
Assessing land-use and land-cover dynamics for the Yellow River Basin in China
Wohlfart C., Kuenzer C.

P13: ISRSE36-153
The Natura 2000 habitat monitoring service of North Rhine-Westphalia (Germany):
a new tool for monitoring authorities
Buck O., Hinterlang D., Müterthies A., **Rühl J.**

P14: 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.

P15: ISRSE36-219
MONITORING THE LARGE URBAN AGGLOMERATIONS GROWTH BY USING OBJECT-ORIENTED SVM METHOD FROM 1980s TO 2015 BASED ON REMOTE SENSING DATA
Wang S., Sun Z., Jiang T.

P16: ISRSE36-223
Landuse mapping and forest area change detection using IRS satellite Imagery
(Case study: Northern forests of Iran)
Pir Bavaghar M.

P17: ISRSE36-235
Geospatial modeling to identify the effects of anthropogenic processes on landscape change
Rahdari V., Soffianian A.

P18: ISRSE36-244
Land use Cover of Roberts County using Landsat 8: a case study
Shekhar A., Kjaersgaard J., O'Neill M.

P19: ISRSE36-265
Land-use and land-cover trends monitored by NDVI multitemporal analysis in a selected southern amazonian area (Brazil) for the last three decades
Alves D. B., Pérez-Cabello F.

P20: 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

P21: ISRSE36-277
A BiomeBGC-based Evaluation of Dryness Stress of Central European Forests
Buddenbaum H., Hientgen J., Dotzler S., Werner W., Hill J.

P22: 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., García-Martín A., Escribano F.

P23: ISRSE36-292
An Image Segmentation Approach for Improving the Accuracy of Individual Crown Delineation
Amiri N.

P24: ISRSE36-298

Reconstructing pre-agricultural expansion natural vegetation covers in Ethiopia: A view on human occupation

Hailu B. T., Maeda E.E., Heiskanen J., Pellikka P.

P25: ISRSE36-299

Factors promoting avian mortality at wind turbine structures: Insights from long-term avian mortality data in the federal state of Brandenburg, Germany

Bose A., Henle K., Klenke R.A., Kümmerle T.

P26: ISRSE36-303

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

Hassen B.

P27: ISRSE36-327

Detection of Forest Calamities from Multi-temporal and Multi-polarized SAR Imager

Wendleder A., Schmitt A., Heiden U.

P28: ISRSE36-329

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

Banzhaf E.

P29: ISRSE36-334

Vegetation indices and surface temperature for remote sensing in a brazilian semiarid 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.

P30: ISRSE36-352

Analysis of the 10-years' Grassland Degradation in Chinese Source Region of Three Rivers with RS Imagery

Yan Y., Luo L., Yu Y., Liu L., Du D.

P31: 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, Cui Z.x

P32: ISRSE36-390

Does topographic normalization of landsat images improve fractional tree cover mapping in tropical mountains?

Adhikari H.

P33: ISRSE36-413

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

Karlson M.

P34: 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.

P35: ISRSE36-427

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

Konecny K.

P36: ISRSE36-442
A long-term perspective on deforestation rates in the Brazilian Amazon
Velasco Gomez M., Beuchle R., Eva H., Simonetti D., Rasi R.

P37: 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.

P38: ISRSE36-444
Pluviometric influence in the indexes of NDVI and NDWI vegetation for the municipality of Guarapuava-PR, Brazil
Schiavo B.N.V., Ruza M.S., Hentz A.M.K., **Corte A.P.D.**, Sanquetta C.R.

P39: ISRSE36-457
Dynamic soil erosion assessment using NDVI variations for the USLE's C factor
Bonifaz R.

P40: ISRSE36-460
Photogrammetry applications for forest plantations analysis. Preliminary study: Analysis of individual trees
Mora R., Barahona A., Aguilar H.

P41: ISRSE36-473
Monitoring and Analysis of Land Use Change since the 21st Century in the north of Sanjiang Plain Based on Remote Sensing
Gao L., Yuan X. H., **Guan L.**

P42: ISRSE36-488
Downscaling sun-induced chlorophyll fluorescence from 0.5 to 0.05 decimal degrees at global scale
Duveiller G., Cescatti A.

P43: 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.

P44: ISRSE36-503
Forest cover change and soil erosion in the Toledo district
Chicas S.

P45: ISRSE36-507
Using the Hybrid model to simulate typhoon-induced litterfall in a subtropical forest
Wang H.-C., Friend A., Huang C.

P46: ISRSE36-515
Seasonal variation of land cover classification accuracy of Landsat 8 images in Burkina Faso
Liu J., Heiskanen J., Aynekuly E., Pellikka P.K.E.

P47: 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.

P48: ISRSE36-567
Urban and peri-urban forestry in the face of climate change in Cameroon: challenges and new perspectives for sustainability
Chekuimo G. H.

P49: ISRSE36-572
Use of Landsat Data to Create a Time-series of Sand Dunes Fields Maps in Abu Dhabi, United Arab Emirates
SALEOUS N., ISSA S., SAEED R.

P50: 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.

P51: 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.

P52: ISRSE36-594
Tropical Forest Rremote Sensing Services for the Democratic Republic of Congo inside the EU FP7 &8216;ReCover' Project
Haarpaintner J., Pedrazzani D., Enßle F., Datta P., Mazinga A., Singa C., Mane L.

P53: ISRSE36-597
Mapping of active raised bogs with an iterative one-class classification approach
Mack B., Stenzel S., Feilhauer H., Schmidtlein S., Waske B.

P54: ISRSE36-598
Monitoring Pinus Radiata plantations using multitemporal RapidEye images -A case Study from New South Wales, Australia-
Magdon P., Kleinn C.

P55: ISRSE36-602
The global financial crisis and the Congo basin's forests: adaptation and sustainability to climate change
Chekuimo G. H.

P56: ISRSE36-621
Forest and related ecosystem services assessment and management based on remote sensing information and thermodynamic approach
Krenke A., Sandlerskiy R, Puzachenko Yu

P57: ISRSE36-630
Random forest classification for monitoring bush encroachment in a South-African savannah with Landsat and ancillary data
Symeonakis E., Higginbottom T.

P58: ISRSE36-636
Concept for a Two-Phase Forest Inventory in Surinam
Schardt M., Kleine M., Schadauer K., Wack R., Sommerauer M.

P59: 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.

P60: ISRSE36-653

Characterising forest succession stage and bird community with analysis of Lidar-based forest structure

Bae S., Mueller J., Lee D.

P61: ISRSE36-655

Mass Wasting Processes on the Ethiopian Highlands - How Multisensoral Remote Sensing Methods Provide Valuable Input for Susceptibility Modelling

Hochschild V., Kropacek J., Maerker M., Schillaci C.

P62: ISRSE36-662

Non-destructive estimation of foliar carotenoid content of tree species using merged vegetation indices

Fassnacht F.E., Stenzel S., Gitelson A.

P63: ISRSE36-676

Environmental Assessment of Mangrove Communities In Tarut Bay, East of the Arabian Peninsula based on a Multidisciplinary Approach

Al Ali A.

P64: ISRSE36-689

Using Landsat data archive for a long-term regional forest dynamics assessment in Eastern Europe, 1985-2012

Turubanova S., Potapov P., Tyukavina A., Krylov A., Hansen M.C.

P65: ISRSE36-694

Improvement on remote sensing determination of annual land base for national carbon inventory reporting

Zhu Z., Reed B., Sleeter B., Larson T., Zhu Z.

P66: ISRSE36-697

Investigation of Capability of satellite data for Optimal Conservation and Sustainable Management (Case study: Miankaleh Wildlife refuge)

Shirkhani S., Esmaili R., Hayali Y., Ghadimi B.

P67: 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.

P68: 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., Benediktssond J.A., Falko N., Árnasond K., Storvold R., Haarpaintner J., Elsakov V., Rasinmäki J.

P69: 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.

P70: ISRSE36-728

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

END OF POSTER PROGRAMME BIOD-P

Wednesday, 13 May 2015

MARI-P MARI Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P1: ISRSE36-34
Dynamic Assessment of Shoreline Changes using Geomatics Engineering: A case study of Poompuhar & Tarangambadi in TamilNadu,India
V S K.

P2: ISRSE36-51
Breakwaters monitoring using UAV aerial photogrammetry. Comparison with terrestrial LiDAR data.
Gonzalez-Jorge H., Puente I., Roca D., Riveiro B., Martínez-Sánchez J., Arias P.

P3: ISRSE36-64
Vessel classification in cosmo-skymed sar data using hierarchical feature selection
Makedonas A., **Theoharatos C.**, Tsagaris V., Anastasopoulos V., Costicoglou S.

P4: 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.

P5: ISRSE36-205
Seasonal Variation of Suspended Sediment Concentration at the Yangtze Estuary - Remote Sensing Observation and Numerical Simulation
Li Y., Li X.

P6: ISRSE36-287
GIS/RS Integration Approach for Water Pollution Risk Modeling from the Agricultural Land in Al Abrash River Basin in Syrian Coastal Zone
Yaghi Dr, Mulhem Dr

P7: ISRSE36-308
Automatic extraction of tide-coordinated shoreline using open source software and Landsat imagery
Gonçalves G., Duro N., Sousa E., Figueiredo I.

P8: 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., Piterbarg L.

P9: 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.,

P10: ISRSE36-369
Generating a long-term series of SST and chlorophyll-a for the coast of Ireland
Casal G.

P11: 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.

P12: ISRSE36-470

Spot detection from MODIS imagery using 2P-CFAR

Ding X., Li X.

P13: ISRSE36-501

Oceanic and atmosphereic internal gravity waves imaged by SAR

Liu B., Yang H., Ding X., Li X.

P14: 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.

P15: ISRSE36-544

Inland-lakes protection application with high resolution satellite imagery in Wuhan

Wen X., Li Z., Xiang D., Shen S.

P16: ISRSE36-562

Joint Offshore Wind Turbine Wake Monitoring with Spaceborne SAR and In-Situ LiDAR Measurements

Jacobsen S., Li X._M., Lehner S., Hieronimus J., Schneemann J.

P17: ISRSE36-571

Mangroves and salt flats changes due to aquaculture activities in the Northeastern Brazil from geographic object-based image analysis during the last three decades

Rodrigues S.W.P, Souza P.W.M.

END OF POSTER PROGRAMME MARI-P

ENGY-P ENGY Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P18: 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.

P19: ISRSE36-286
Optimal size and location of bionergy powerplants in Brazil using GIS
Ribeiro C., Menezes S., Chaves M., Costa F., Marcatti G., Teixeira T., Soares V., Gleriani J.

P20: ISRSE36-618
Multicriteria analysis for sources of renewable energy using data from remote sensing
Matejicek L.

P21: ISRSE36-742
Augmenting energy needs trough geoinformatics: Hydropower potential estimation in Baspa basin, India
Chaudhary B.S., Kaur R.

END OF POSTER PROGRAMME ENGY-P

SENS-P SENS Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P22: ISRSE36-3
Visibility automatic observation instrument based on the visual technology
Wang J., Liu X.

P23: ISRSE36-47
Assessing the Bandwidth Effect on the Correlation across different Bands of Landsat 8 and Landsat 7
Alavipanah S.K.

P24: ISRSE36-59
Mapping land cover in the Taita Hills, SE Kenya, using airborne laser scanning and imaging spectroscopy data fusion
Piiroinen R., Hurskainen P., Heiskanen J., Pellikka P. K. E.

P25: ISRSE36-62
The mathematical model of optical remote sensing system signal considering broken cloudiness effects
Budak V.P., **Shagalov O.V.**

P26: ISRSE36-86
Application of Remote Sensing in Monitoring Wetland Inundation in Arid Regions: The Case of Hamoun International Wetland
Maleki S., Soffianian A., Saatchi S., Rahdari V.

P27: ISRSE36-96
Research on geographical conditions monitoring method based on long time series Landsat data
Zhao Y., Bai J.

P28: ISRSE36-97
Research on reefs bathymetry estimation by remote sensing
Sheng L.

P29: ISRSE36-132
Research Of Two-media Underwater Reefs Depth Measurement Based On Aviation And Aerospace Remote Sensing Images
ZHOU G.

P30: ISRSE36-137
The Method-Oriented SAR Data Processing Illustrated by Two Rapid Man-made Target Index Extraction Methods
Wu W., Guo H., Li X.

P31: ISRSE36-200
A Hadoop-based Algorithm of Generating DEM Grid from Point Cloud Data
Jian X., Xiao X., Chengfang H., Xuejun C., Zhaohui W., Dengzhong Z.

P32: ISRSE36-226
Research on unmanned aerial vehicles as a platform for lightweight ground-penetrating radar
Collins M.A.

P33: ISRSE36-245

Terrestrial Laser Scanning in grasslands: How good is it to estimate and monitor above-ground biomass?
Duque Lazo J., Reu B., Wirth C

P34: ISRSE36-273

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

P35: 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

P36: ISRSE36-401

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

P37: ISRSE36-454

Multisensor airborne 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.

P38: ISRSE36-455

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

P39: ISRSE36-545

Hybrid change detection: an association between object-based and pixel-based classification methods
Weckmüller R., Vicens R.S.

P40: ISRSE36-548

Radiometric normalization of RapidEye images for change detection
Weckmüller R., Vicens R.S.

P41: ISRSE36-596

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

P42: ISRSE36-607

Environmental Impact Assessment follow-up of interchanges: Ground independent Geometric correction of aerial images
Vassilaki D.I., Stamos A.A.

P43: ISRSE36-608

Measuring the light pollution area through night time imagery
Irteza S.M.

P44: 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.

END OF POSTER PROGRAMME SENS-P

POLA-P POLA Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P45: ISRSE36-263
Time-series of Landsat 8 data in mapping the onset of the growing season in Adventdalen valley, on the Arctic Archipelago Svalbard
Karlsen S. R., Villa G, Bautista N, Tejeiro J-A, Grydeland T, Johansen B

P46: ISRSE36-521
Climate change induces changes in the distribution of four species of dragonflies Argia genus.
Nava Bolaños A., Muñoz J., Sánchez-Guillén RA., Córdoba Aguilar A.

P47: ISRSE36-591
Zackenberg valley from the radar perspective - which information can we get from SAR data about the Arctic tundra?
Sobiech-Wolf J., Dierking W.

P48: ISRSE36-609
Crustal uplift due to ice mass loss in Columbia glacier assessed by TanDEM-X InSAR
Haghshenas Haghighi M., Motagh M., Braun M., Vijay S., Neelmeijer J.

P49: 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., Schmullius C.

END OF POSTER PROGRAMME POLA-P

Thursday, 14 May 2015

ATMC-P ATMC Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P1: ISRSE36-39
Potential Climate Change Effects On Sago Palm Suitability Distribution: Analysis Based On Remotely Sensed-Derived Data And Ecocrop Modelling
Santillan J., **Santillan M.**

P2: ISRSE36-114
A new health check of the ozone layer at global and regional scales
Coldewey-Egbers M., Loyola D., Braesicke P., Dameris M., van Roozendael M., Lerot C., Balis D., Koukouli M., Zimmer W.

P3: ISRSE36-163
Variability of Climatic Elements in Nigeria over recent 100 Years
Salami T.

P4: ISRSE36-228
Investigations of the influence of solar activity on the regularities of formation water in the Amu Darya River Basin
Ishchanov J., Shermatov Yo.

P5: ISRSE36-249
Why do we need atmospheric Limb sounding from space?
Orphal J.

P6: ISRSE36-294
Climate change effects of various municipal solid waste management scenarios; Case study Tehran, Iran
Tayeba A., Dadashi M., Gharagozlu A., Hejrani Diarjan M.

P7: ISRSE36-424
Understanding Consequnces of Climate Variability Through Integration of High Resolution Flood Event Models, Weather Forecasting Models, and Real Time Observations
Simonis I., McKee L.

P8: ISRSE36-471
Aerosol Retrieval Over Urban Areas Using Modified VIS/SWIR Surface Reflectance Ratios with Improved Aerosol Modelling
Zhang M., Huang B.

P9: ISRSE36-486
Multi-temporal Air Temperature Estimation Scheme (MATES)
Bechtel B., Zak¨ek K.

P10: ISRSE36-509
Relationship between surface temperature and land use/cover types in case of the island of Bali Indonesia
Asmiwyati I G.A.A. R.

P11: ISRSE36-510
Discuss on Satellite-Based Particulate Matter Monitoring Technique
Li B., Hou L.

P12: ISRSE36-549
Preliminary Research on Radiance Fog Detection based on time series MTSAT data
Wen X., Xiang D., Shen S., Li Z., Zhang S.

P13: ISRSE36-682
Data and techniques for studying the urban heat island effect in Johannesburg
Hardy C.H., Nel A.L.

P14: ISRSE36-699
Sand and dust storms in the West Asia and their adverse effects (CASE STUDY IRAN)
Shirkhani Ardehjani S., Ghadimi B., Hayali Y., Esmali R.

END OF POSTER PROGRAMME ATMC-P

AGRI-P AGRI Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P15: ISRSE36-33
Arab Countries and Space Technology -Requirements and Applications
ElNahry Dr.

P16: ISRSE36-83
Low-altitude remote sensing for precision agriculture
Huang Y.

P17: 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.

P18: ISRSE36-166
Preliminary Study on the Radar Vegetation Index (RVI) Application to Actual Paddy Fields by ALOS/PALSAR Full-polarimetry SAR Data
Yamada Y.

P19: ISRSE36-171
Soil erosion assessment using Revised Universal Soil Loss Equation (RUSLE) and Geographical information system in May Gabat sub catchment, Northern Ethiopia.
OSANO P.

P20: ISRSE36-351
Spectral Discrimination and Reflectance Properties of Various Vine Varieties from Satellite, UAV and Proximate Sensors
Karakizi C., Oikonomou M., Karantzalos K.

P21: ISRSE36-356
Crop Ground Cover Fraction and Canopy Chlorophyll Content Mapping using RapidEye imagery
Zillmann E., Weichelt H.

P22: ISRSE36-389
A laboratory procedure for measuring and georeferencing soil colour
Marqués-Mateu Á., Balaguer-Puig M., Moreno-Ramón H., Ibáñez-Asensio S.

P23: 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.

P24: ISRSE36-461
Effect of pixel purity in the training and testing stages of supervised crop classification using MODIS time series
Löw F., Fliemann E., Duveiller G.

P25: 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.

P26: ISRSE36-482
Evaluation of Evapotranspiration Value of Rice Paddies using MODIS Data and CROPWAT
Lin S., Hunag T., Wu C., Lin J.

P27: ISRSE36-499
Estimation of nitrogen status in crops by spectral reflectance and local photographs
Martinez L. J., Ramos A., Escobar O.

P28: ISRSE36-505
Agricultural areas mapping using NDVI/MODIS time series Manica Province, Mozambique
Mabilana H., Fonseca E., Fontana D

P29: ISRSE36-552
Guidelines for authors submitting abstracts to the 36th international symposium of remote sensing of environment
Mirzaee S., **Motagh M.**, Arefi H., Nooryazdan A.

P30: 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.

P31: ISRSE36-629
Use of factorization in not negatives matrices on the satellite images for the collection of agricultural statistics
Benyelles Z., Yousfi D

P32: ISRSE36-637
Land use and land cover changes in Negro river watershed, Rio Grande do Sul, Brazil between 2003 and 2013
Schafer A., Moreira D., Branco V.

P33: ISRSE36-690
Deforestation relationship between agriculture activities and livestock in a border area in Brazilian Amazonia.
Cougo M., **Donato C.**, Maciel M.

P34: ISRSE36-691
Creating the stratification boundary of teak forest as a base forest probability for teak forest in java island to input the forest and non forest multitemporal classification
Kartika T., Parsa i M., Novitasari E. T.

P35: ISRSE36-715
Application of Satellite Imagery for pericise Change Detection (case study; Taleghan Basin)
Arzani H., Faraji M., Tavili A., Feghi J.

P36: ISRSE36-733
Evaluation of Uncertainty and Accuracy in Multi-Temporal Object-Based Land Use Classification
Knöfel P., Löw F., Möller M., Conrad C.

END OF POSTER PROGRAMME AGRI-P

WACY-P WACY Posters

Poster Area: Poster Area
Attendance Time: 12:30–14:00

P37: 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.**

P38: ISRSE36-106
Apparent Optical Properties of Reservoirs in a Cascade Dam Construction over Tietê River, São Paulo, Brazil
Rodrigues T., Alcântara E., Watanabe F., Imai N., Rotta L.

P39: 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.

P40: ISRSE36-162
Changes in the land cover and land use of the Itacaiúnas River watershed, arc of deforestation, Carajás, 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.

P41: ISRSE36-164
Estimating absorption coefficients of Colored Dissolved Organic Matter using an empirical model for Itumbiara Reservoir, Brazil
Watanabe F., Alcântara E., Fernandes R., Stech J., Kampel M.

P42: ISRSE36-192
The Spatial Analysis and Visualization of Water Body Based on GIS in Yangtze River Basin
Dong Y., Meng L K., Zhang W.

P43: ISRSE36-195
Assessement method of water quality for river based on multi-spectral remote sensing data
xiao x.

P44: ISRSE36-234
Integrationof Remote Sensing and Geographic information system in Ground Water Quality Assessment and Management
Shakak N.

P45: 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.

P46: 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.

P47: 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.

P48: ISRSE36-477

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

P49: ISRSE36-539

CLOSURE ANALYSIS FOR APPARENT OPTICAL PROPERTIES AOPs IN AN AMAZON FLOODPLAIN LAKE: A STEP TO BUILD ACCURATE REMOTE SENSING INVERSE MODELS.
Sander de Carvalho L.A.S, Barbosa C.C.F., Boss E., Novo E.M.L.M.

P50: ISRSE36-570

Water body information extraction from high resolution Sentinel-1 IWS Mode SAR images using Li's Minimum Cross Entropy threshold method
Nguyen D., **To T.**

P51: 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 Araújod J.C., Motagh M., Waske B., Foester S.

P52: ISRSE36-624

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

P53: ISRSE36-656

Rainfall in an experimental watershed: a comparison between observed and TRMM 3B42V7 dataset
ALMEIDA C. N., BARBOSA L. R., FREITAS E. S., MELO D. C. D.

P54: 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.

P55: 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.

P56: 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.

END OF POSTER PROGRAMME WACY-P