

ISRSE 34 PROGRAM

The 12 themes are:

Theme 1:	Climate Change and Atmosphere
Theme 2:	Agriculture: Food Crisis and Reducing Poverty and Hunger
Theme 3:	Forests, Ecosystems and Biodiversity
Theme 4:	Disaster Reduction and Response
Theme 5:	Coastal and Marine Resources
Theme 6:	Water A Limited and Degraded Resource
Theme 7:	Urban Environments and Cultural Heritage
Theme 8:	Health and Wellbeing
Theme 9:	Regional, International Programs and Applications
Theme 10:	Airborne Remote Sensing Applications and Technologies
Theme 11:	Data and Information Systems
Theme 12:	Societal Benefits of Earth Observations

34TH ISRSE TECHNICAL SESSION SUMMARY

1 CLIMATE CHANGE AND ATMOSPHERE

TS-2	1-O-1	Climate Missions and Instruments	Monday	14:00–15:30	Parkside 110a
TS-9	1-O-2	Aerosols, Trace Gases and Air Quality	Monday	16:00–17:30	Parkside 110a
TS-19	1-O-3	Phenology, Seasonality and Satellite Time Series	Tuesday	11:00–12:30	G04 (Ground Level)
TS-40	1-O-4	Land Surface 1: Monitoring Carbon Dynamics & Emissions	Wednesday	11:00–12:30	G04 (Ground Level)
TS-54	1-O-5	Trends	Wednesday	16:00–17:30	G04 (Ground Level)
TS-67	1-O-6	Biomass Burning: New Perspectives on Quantitative Characterization (2) Smoke Emissions	Thursday	11:00–12:30	Parkside 110a
TS-84	1-O-7	Weather & Forecasting	Thursday	16:00–17:30	G04 (Ground Level)
TS-22	1-E-1	Weather, Forecasting & Aerosols	Tuesday	11:00–12:30	Location 2 (Level 1)
TS-36	1-E-2	Land Surface 2: Climate & Trends	Tuesday	16:00–17:30	Location 2 (Level 1)
TS-63	1-E-3	Land Surface 3: Vegetation & Radiation	Thursday	08:30–10:30	Location 1 (Level 1)

2 AGRICULTURE: FOOD CRISIS AND REDUCING POVERTY AND HUNGER

TS-38	2-O-1	Crop Identification, Forecasting & Stress Detection	Wednesday	11:00–12:30	Parkside 110a
TS-62	2-O-2	Monitoring Water Usage, Irrigation & Drought	Thursday	08:30–10:30	G05 (Ground Level)
TS-70	2-O-3	Integrating Remote Sensing & Models for Agriculture & Environmental Management	Thursday	11:00–12:30	G05 (Ground Level)
TS-78	2-O-4	Soil Information from Remotely Sensed Data	Thursday	14:00–15:30	G05 (Ground Level)
TS-85	2-O-5	Mapping & Monitoring Erosion, Desertification & Land Degradation	Thursday	16:00–17:30	G05 (Ground Level)
TS-49	2-E-1	Agricultural Estimation & Prediction Using Remote Sensing	Wednesday	14:00–15:30	Location 1 (Level 1)
TS-57	2-E-2	Assessing Climate Impact & Water Usage	Wednesday	16:00–17:30	Location 2 (Level 1)

3 FORESTS, ECOSYSTEMS AND BIODIVERSITY					
TS-1	3-O-1	Ecosystem Function in Savannas: Measurement & Modelling at Landscape to Global Scales	Monday	14:00–15:30	Parkside Auditorium
TS-8	3-O-2	Ecosystem Function in Savannas: Australian Savannas & Woody Measurement	Monday	16:00–17:30	Parkside Auditorium
TS-16	3-O-3	Forests & Forest Management	Tuesday	11:00–12:30	Parkside Auditorium
TS-23	3-O-4	Vegetation Structure & Physiology 1	Tuesday	14:00–15:30	Parkside Auditorium
TS-30	3-O-5	Vegetation Structure & Physiology 2	Tuesday	16:00–17:30	Parkside Auditorium
TS-37	3-O-6	Long-term Monitoring of Terrestrial Ecosystems Globally with Landsat, AVHRR, MODIS, SPOT & Other Sensors	Wednesday	11:00–12:30	Parkside Auditorium
TS-44	3-O-7	Mapping & Monitoring Land Use, Land Cover & Ecosystems	Wednesday	14:00–15:30	Parkside Auditorium
TS-51	3-O-8	Mapping Forest Cover & Biomass	Wednesday	16:00–17:30	Parkside Auditorium
TS-58	3-O-9	GEO Forest Carbon Tracking Product Development	Thursday	08:30–10:30	Parkside Auditorium
TS-66	3-O-10	Mapping Ecosystems in Australia	Thursday	11:00–12:30	Parkside Auditorium
TS-81	3-O-11	Forest Change	Thursday	16:00–17:30	Parkside Auditorium
TS-28	3-E-1	Landscape Dynamics & Conservation	Tuesday	14:00–15:30	Location 1 (Level 1)
TS-35	3-E-2	Land Use & Land Cover Change	Tuesday	16:00–17:30	Location 1 (Level 1)
TS-56	3-E-3	Forest & Vegetation Monitoring	Wednesday	16:00–17:30	Location 1 (Level 1)
TS-71	3-E-4	Vegetation Mapping 1: Identification & Distribution	Thursday	11:00–12:30	Location 1 (Level 1)
TS-79	3-E-5	Modelling Vegetation Characteristics	Thursday	14:00–15:30	Location 1 (Level 1)
TS-86	3-E-6	Vegetation Mapping 2: Cover & Structure	Thursday	16:00–17:30	Location 1 (Level 1)

4 DISASTER REDUCTION AND RESPONSE

TS-60	4-O-1	Flood Monitoring & Assessment	Thursday	08:30–10:30	Parkside 110b
TS-75	4-O-2	Biomass Burning: New Perspectives on Quantitative Characterization (3) Fire Danger, Forecasting & Post-burn Analysis	Thursday	14:00–15:30	Parkside 110a
TS-83	4-O-3	Geohazard Assessment & Mapping	Thursday	16:00–17:30	Parkside 110b
TS-14	4-E-1	Information Systems for Predicting & Responding to Disasters	Monday	16:00–17:30	Location 2 (Level 1)
TS-21	4-E-2	Biomass Burning: New Perspectives on Quantitative Characterization (5) Forecasting & Monitoring	Tuesday	11:00–12:30	Location 1 (Level 1)
TS-50	4-E-3	Remote Sensing of Natural & Man-made Disasters	Wednesday	14:00–15:30	Location 2 (Level 1)

5 COASTAL AND MARINE RESOURCES

TS-18	5-O-1	Phytoplankton Dynamics & Operational Oceanography	Tuesday	11:00–12:30	Parkside 110b
TS-25	5-O-2	Shallow Water Habitats in Temperate Environments: Bathymetry & Sun Glint	Tuesday	14:00–15:30	Parkside 110b
TS-46	5-O-3	Tropical Environments: Coral Reefs & Seagrass Meadows	Wednesday	14:00–15:30	Parkside 110b
TS-76	5-O-4	Water Quality & Ocean Colour	Thursday	14:00–15:30	Parkside 110b
TS-7	5-E-1	Remote Sensing of Water Features	Monday	14:00–15:30	Location 2 (Level 1)
TS-42	5-E-2	Mapping & Monitoring the Coastal Zone & Coastlines	Wednesday	11:00–12:30	Location 1 (Level 1)
TS-64	5-E-3	Tropical Environments: Coral Reefs, Seagrass Beds & Mangroves	Thursday	08:30–10:30	Location 2 (Level 1)

6 WATER: A LIMITED AND DEGRADED RESOURCE

TS-11	6-O-1	Hydrologic Remote Sensing: Missions & Applications 1	Monday	16:00–17:30	G04 (Ground Level)
TS-32	6-O-2	Hydrologic Remote Sensing: Missions & Applications 2	Tuesday	16:00–17:30	Parkside 110b
TS-39	6-O-3	Inland Water Bodies & Wetlands	Wednesday	11:00–12:30	Parkside 110b
TS-53	6-O-4	Inland Water Quality	Wednesday	16:00–17:30	Parkside 110b
TS-43	6-E-1	Hydrologic Remote Sensing: Missions & Applications 3	Wednesday	11:00–12:30	Location 2 (Level 1)
TS-72	6-E-2	Wetlands	Thursday	11:00–12:30	Location 2 (Level 1)
TS-87	6-E-3	Inland Water Bodies	Thursday	16:00–17:30	Location 2 (Level 1)

7 URBAN ENVIRONMENTS AND CULTURAL HERITAGE

TS-5	7-O-1	Enhanced Detection & Urban Mapping	Monday	14:00–15:30	G05 (Ground Level)
TS-12	7-O-2	Urban Domes, Carbon, Climate & Environment	Monday	16:00–17:30	G05 (Ground Level)
TS-61	7-O-3	Urban Heat Islands and Hazards	Thursday	08:30–10:30	G04 (Ground Level)
TS-29	7-E-1	Urban Remote Sensing	Tuesday	14:00–15:30	Location 2 (Level 1)

8 HEALTH AND WELLBEING

TS-34	8-O-1	Remote Sensing Uses in Public Health	Tuesday	16:00–17:30	G05 (Ground Level)
TS-13	8-E-1	Societal & Public Health Benefits of Remote Sensing	Monday	16:00–17:30	Location 1 (Level 1)

9 REGIONAL, INTERNATIONAL PROGRAMS AND APPLICATIONS

TS-3	9-0-1	Global Systems	Monday	14:00–15:30	Parkside 110b
TS-17	9-0-2	Regional Land Mapping & Monitoring	Tuesday	11:00–12:30	Parkside 110a
TS-26	9-0-3	ESA-MOST China Dragon 2 Program: 1. Atmospheric & Marine Applications	Tuesday	14:00–15:30	G04 (Ground Level)
TS-33	9-0-4	ESA-MOST China Dragon 2 Program: 2. Land Applications	Tuesday	16:00–17:30	G04 (Ground Level)
TS-45	9-0-5	Ground Observation Networks & Land Product Validation 1	Wednesday	14:00–15:30	Parkside 110a
TS-52	9-0-6	Ground Observation Networks & Land Product Validation 2	Wednesday	16:00–17:30	Parkside 110a
TS-82	9-0-7	Biomass Burning: New Perspectives on Quantitative Characterization (4) Operational Systems & Regional Applications	Thursday	16:00–17:30	Parkside 110a
TS-15	9-E-1	Geological Applications of Remote Sensing	Monday	16:00–17:30	Location 3 (Level 1)
TS-80	9-E-2	Global & Regional Systems	Thursday	14:00–15:30	Location 2 (Level 1)

10 AIRBORNE REMOTE SENSING APPLICATIONS AND TECHNOLOGIES

TS-4	10-0-1	Airborne Education & Outreach	Monday	14:00–15:30	G04 (Ground Level)
TS-10	10-0-2	ISPRS TC I Working Group I/1	Monday	16:00–17:30	Parkside 110b
TS-20	10-0-3	Airborne Science Applications 1	Tuesday	11:00–12:30	G05 (Ground Level)
TS-27	10-0-4	Airborne Programs: International & National	Tuesday	14:00–15:30	G05 (Ground Level)
TS-41	10-0-5	Unmanned Aerial Systems 1	Wednesday	11:00–12:30	G05 (Ground Level)
TS-48	10-0-6	Unmanned Aerial Systems 2	Wednesday	14:00–15:30	G05 (Ground Level)
TS-55	10-0-7	Unmanned Aerial Systems 3	Wednesday	16:00–17:30	G05 (Ground Level)
TS-65	10-E-1	Airborne Science Applications 2	Thursday	08:30–10:30	Location 3 (Level 1)
TS-73	10-E-2	Airborne Science Applications 3	Thursday	11:00–12:30	Location 3 (Level 1)

11 DATA AND INFORMATION SYSTEMS

TS-24	11-O-1	Missions & Instruments	Tuesday	14:00–15:30	Parkside 110a
TS-31	11-O-2	National Data & Programs	Tuesday	16:00–17:30	Parkside 110a
TS-47	11-O-3	Interoperability & Standards	Wednesday	14:00–15:30	G04 (Ground Level)
TS-59	11-O-4	Biomass Burning: New Perspectives on Quantitative Characterization (1) Measurement, Analysis & Validation	Thursday	08:30–10:30	Parkside 110a
TS-69	11-O-5	Novel Information Extraction Algorithms	Thursday	11:00–12:30	G04 (Ground Level)
TS-77	11-O-6	Advanced Web Development	Thursday	14:00–15:30	G04 (Ground Level)
TS-6	11-E-1	Data Processing & Algorithms	Monday	14:00–15:30	Location 1 (Level 1)
TS-88	11-E-2	Missions, Instruments, Information Systems & Data Standards	Thursday	16:00–17:30	Location 3 (Level 1)

12 SOCIETAL BENEFITS OF EARTH OBSERVATION

TS-68	12-O-1	Remote Sensing: Users, Priorities & Challenges	Thursday	11:00–12:30	Parkside 110b
TS-74	12-O-2	Thrilling Imagery & the Science of Design: Engaging the Public with Remote Sensing	Thursday	14:00–15:30	Parkside Auditorium

All technical sessions in the program booklet are coded as x-E-y or x-O-y where x indicates the theme and y indicates the session number within the theme.

Oral sessions are coded x-O-y. These conventional sessions are held in the five session rooms shown on the floor plan (see pages 22–23).

Electronic sessions, coded x-E-y, are more informal presentations to smaller audiences using the ePresenter system. These sessions are held at Locations 1, 2 and 3 on Level 1 (see page 23). Electronic presentations can also be viewed at these locations at other times during the Symposium, whenever the ePresenter systems are not in use.



PROGRAM AT A GLANCE – MONDAY 11 APRIL

		ORAL PRESENTATIONS			ELECTRONIC PRESENTATIONS			
ROOM		Parkside 110a	Parkside 110b	G04	G05	Location 1	Location 2	Location 3
		Level 1	Level 1	Ground Level	Ground Level	Level 1	Level 1	Level 1
0900 – 1030	Opening Ceremony							
1030 – 1100		MORNING TEA & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)						
1100 – 1230	PS-1 Earth Observation Supporting Disaster Management and Situational Awareness							

LUNCH & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1) (Lunch at own arrangements)																
1230 – 1400	TS-1	3-0-1	TS-2	1-0-1	TS-3	9-0-1	TS-4	10-0-1	TS-5	7-0-1	TS-6	11-E-1	TS-7	5-E-1		
1400 – 1530	Ecosystem Function in Savannas: Measurement and Modelling at Landscape to Global Scales	Climate Missions and Instruments	Global Systems	Airborne Education and Outreach	Enhanced Detection and Urban Mapping	Data Processing and Algorithms	Remote Sensing of Water Features									
TEA & COFFEE BREAK & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)																
1530 – 1600	TS-8	3-0-2	TS-9	1-0-2	TS-10	10-0-2	TS-11	6-0-1	TS-12	7-0-2	TS-13	8-E-1	TS-14	4-E-1	TS-15	9-E-1
1600 – 1730	Ecosystem Function in Savannas: Australian Savannas and Woody Measurement	Aerosols, Trace Gases and Air Quality	ISPRS TCI Working Group I/1	Hydrologic Remote Sensing: Missions and Applications 1	Urban Domes, Carbon, Climate and Environment	Societal and Public Health Benefits of Remote Sensing	Information Systems for Predicting and Responding to Disasters	Geological Applications of Remote Sensing								
WELCOME RECEPTION IN PARKSIDE FOYER (LEVEL 1)																
1730 – 1900																

MONDAY 11 APRIL 2011

Opening	OPENING CEREMONY
0900 – 1030	<p>Parkside Auditorium <i>Co-Chair John Trinder, University of NSW, AUSTRALIA</i> <i>Co-Chair Chuck Hutchinson, University of Arizona, USA</i></p> <p>WELCOME TO COUNTRY: CULTURAL PERFORMANCE</p> <p>WELCOME SPEECHES Patricia Kelly, Dept Innovation, Industry, Science and Research, AUSTRALIA R. Niels Marquardt, USA Consul General, Sydney Per Erik Skrovseth, Chairman, ICORSE Gypsy Bhalla, President, SSSI Chen Jun, Secretary General, ISPRS</p> <p>KEYNOTE SPEAKER Jose Achache, Secretariat Director, GEOSS <i>proudly sponsored by Esri</i></p> <p>CLOSING COMMENTS AND LOGISTICS Alex Held, CSIRO, AUSTRALIA</p>
PS-1	EARTH OBSERVATION SUPPORTING DISASTER MANAGEMENT AND SITUATIONAL AWARENESS
1100 – 1230	<p>Parkside Auditorium <i>Chair Peter Woodgate, CRC Spatial Information, AUSTRALIA</i></p> <p>KEYNOTE SPEAKERS Sue Barrell, Bureau of Meteorology, AUSTRALIA Lee Johnson, Australasian Fire and Emergency Service Authorities Council (AFAC) Adam Lewis, Geoscience Australia, AUSTRALIA Jose Achache, Secretariat Director, GEOSS</p>
TS-1	3-0-1 ECOSYSTEM FUNCTION IN SAVANNAS: MEASUREMENT AND MODELLING AT LANDSCAPE TO GLOBAL SCALES
1400 – 1530	<p>Parkside Auditorium <i>Co-Chair Michael Hill, University of North Dakota, USA</i> <i>Co-Chair Lindsay Hutley, Charles Darwin University, AUSTRALIA</i></p>
TS-1-1 (Ref. 551)	<p>Remote Sensing and Modeling of Savannas: The State of the Dis-Union <i>Michael Hill (University of North Dakota, USA); N. Hanan; W. Hoffmann; R. Scholes; S. Prince; J. Ferwerda; R. Lucas; I. Baker; A. Arneith; S. Higgins</i></p>
TS-1-2 (Ref. 61)	<p>The Impact of Human Activities on West Africa's Natural Vegetation: Estimating Land Cover Dynamics by Means of a Sample-based High Resolution Image Survey <i>Catherine Bodart (Joint Research Centre of the European Commission, ITALY); F. Donnay; O. Kissiyar; A. Lupi; D. Simonetti; R. Rasi; R. Beuchle; H. Eva; P. Mayaux; A. Brink</i></p>

<p>TS-1-3 (Ref. 400)</p>	<p>Long-Term Cross-Scale Assessment of Woody Cover Stability in Drylands <i>Cho-Ying Huang (National Taiwan University, TAIWAN); S. Archer; M. McClaran; S. Marsh</i></p>
<p>TS-1-4 (Ref. 718)</p>	<p>Fueling the Source: Mapping and Modeling Carbon and Woody Resources for Continental Africa <i>Lara Prihodko (Colorado State University, USA); N. Hanan; R. McKeown; G. Bucini; A. Tredennick</i></p>
<p>TS-1-5 (Ref. 409)</p>	<p>Mapping Savanna Tree Species using WorldView-2 Visible-Near Infrared Multispectral Configuration <i>Moses Azong Cho (CSIR, SOUTH AFRICA); L. Naidoo; R. Mathieu; G. Asner</i></p>
<p>TS-2</p>	<p>1-0-1 CLIMATE MISSIONS AND INSTRUMENTS</p>
<p>1400 – 1530</p>	<p>Parkside 110a <i>Co-Chair Miriam Baltuck, Canberra Deep Space Communication Complex, AUSTRALIA</i> <i>Co-Chair Per Erik Skrovseth, Norwegian Space Centre, NORWAY</i></p>
<p>TS-2-1 (Ref. 212)</p>	<p>Global Change Observation Mission (GCOM) <i>Haruhisa Shimoda (JAXA, JAPAN)</i></p>
<p>TS-2-2 (Ref. 650)</p>	<p>Global Change Observation Mission (GCOM) Data Recovery by the National Oceanic and Atmospheric Administration (NOAA)—An International Partnership to Capture Critical Operational and Climate Environmental Data Records from Space <i>Peter Wilczynski (NOAA NESDIS, USA)</i></p>
<p>TS-2-3 (Ref. 265)</p>	<p>New Earth Science Opportunities for Small Orbital Instruments and Missions <i>James Wells (NASA, USA); G. Stover</i></p>
<p>TS-2-4 (Ref. 304)</p>	<p>4STAR Spectrometer for Sky-Scanning Sun-Tracking Atmospheric Research: Instrument Technology Development <i>Stephen Dunagan (NASA Ames, USA); R. Johnson; J. Zavaleta; R. Walker; C. Chang; P. Russell; B. Schmid; C. Flynn; J. Redemann; J. Livingston</i></p>
<p>TS-2-5 (Ref. 500)</p>	<p>Low Latency DESDynI Data Products for Disaster Response, Resource Management and other Applications <i>Joshua Doubleday (California Institute of Technology, USA); S. Chien; Y. Lou</i></p>
<p>TS-2-6 (Ref. 650)</p>	<p>COSMIC-2: The Follow-on Mission to the Constellation Observing System for Meteorology, Ionosphere, and Climate <i>Peter Wilczynski (NOAA NESDIS, USA); K. Cook</i></p>
<p>TS-2-7 (Ref 812)</p>	<p>Climate Monitoring from Space—A Call for an International Space-Based Architecture <i>Barbara Ryan (WMO, SWITZERLAND); J. Lafeuille</i></p>

TS-3	9-0-1 GLOBAL SYSTEMS
1400 – 1530	Parkside 110b <i>Co-Chair Vern Singhroy, Canada Centre for Remote Sensing, CANADA</i> <i>Co-Chair Mario Hernandez, UNESCO, FRANCE</i>
TS-3-1 (Ref. 523)	GEO Global Water Quality Monitoring Activities <i>Steven Greb (Wisconsin Dept Natural Resources, USA); A. Dekker; T. Kutser</i>
TS-3-2 (Ref. 47)	The Global Operational Monitoring of Large Lakes and Reservoirs <i>Charon Birkett (Earth System Science Interdisciplinary Centre, USA); C. Reynolds; B. Beckley; J. Santana</i>
TS-3-3 (Ref. 843)	Success in an Inter-Agency Global Food Security Project Leads to Cloud Computing Model to Address Analytical Difficulties in Utilizing Multiple Satellite Sensor Data Sets <i>Thomas Kerr (Global Marketing Insights Inc, USA); S. Johnson; A. Philp; S. Loy</i>
TS-3-4 (Ref. 337)	Geoland2—Towards an Operational GMES Land Monitoring Core Service: The Biogeophysical Parameter Core Mapping Service <i>Roselyne Lacaze (HYGEOS, FRANCE); F. Baret; F. Camacho; R. D'Andrimont; P. Pacholczyk; H. Poilve; B. Smets; K. Tansey; I. Trigo; W. Wagner</i>
TS-3-5 (Ref. 404)	European Earth Observation Priorities and Challenges in the GEOSS Era—Results of the Project Eugene <i>Jens Danzeglocke (German Aerospace Center, GERMANY); P. Counet; R. Husband; G. Strunz; M. Nyenhuis; R. Busskamp; U. Gärtner; H. Staudenrausch</i>
TS-3-6 (Ref. 1175)	Global Monitoring for Environment and Security <i>Francesco Pignatelli (European Commission, ITALY)</i>
TS-3-7 (Ref. 145)	Status and Distribution of Mangrove Forest of the World using Earth Observation Satellite Data <i>Chandra Giri (USGS, USA)</i>
TS-4	10-0-1 AIRBORNE EDUCATION AND OUTREACH
1400 – 1530	G04 (Ground Level) <i>Co-Chair Jorg Hacker, Flinders University, AUSTRALIA</i> <i>Co-Chair Jean-Louis Brenguier, European Facility for Airborne Research, FRANCE</i>
TS-4-1 (Ref. 1051)	The NASA/NSERC Student Airborne Research Program <i>Randy Albertson (NASA, USA); R. Shetter; G. Seielstad; J. Peterson</i>
TS-4-2 (Ref. 722)	Americaview's remote sensing education mission <i>Thomas Cecere (US Geological Survey, USA); R. Landenberger; T. Mueller; J. Morgan; K. Czajkowski; R. Dodge</i>

<p>TS-4-3 (Ref. 674)</p>	<p>The United States Interagency Coordinating Committee for Airborne Geosciences Research and Applications <i>Jason Tomlinson (Pacific Northwest National Laboratory, USA); G. Morris; A. Guillory</i></p>
<p>TS-4-4 (Ref. 496)</p>	<p>Developing Multiple Components of an Environmental Education Model for an Airborne Science Program <i>Catherine Lockwood (CNL World, USA); L. Handley; N. Handley; S. Bennett</i></p>
<p>TS-4-5 (Ref. 383)</p>	<p>Using Unmanned Aerial Vehicles for Mapping, Classification and Monitoring of Invasive Weeds <i>Mitch Bryson (Australian Centre for Field Robotics, AUSTRALIA); A. Reid; C. Hung; T. Abuhashim; S. Sukkarieh</i></p>
<p>TS-5</p>	<p>7-O-1 ENHANCED DETECTION AND URBAN MAPPING</p>
<p>1400 – 1530</p>	<p>G05 (Ground Level) <i>Co-Chair Martin Wegmann, University Of Wuerzburg, GERMANY</i> <i>Co-Chair Dale Quattrochi, NASA Earth Science Office, USA</i></p>
<p>TS-5-1 (Ref. 466)</p>	<p>NIGHTSAT: Global Night-Time Lights for Observing Human Activity <i>Steve Hipskind (NASA, USA); C. Elvidge; R. Nemani; M. Imhof; E. Sheffner; L. Bounoua; D. Pettit</i></p>
<p>TS-5-2 (Ref. 514)</p>	<p>Detection of Urban Features from High Resolution Satellite Images <i>Arzu Erener (Selcuk University, TURKEY)</i></p>
<p>TS-5-3 (Ref. 559)</p>	<p>Urban Area Extraction using Variogram Texture Analysis and OTSU Threshold Segmentation in TerraSAR-X SAR Image <i>Hong Zhang (CEODE, CHINA)</i></p>
<p>TS-5-4 (Ref. 271)</p>	<p>The Path to Mapping the Global Urban Footprint using TanDEM-X Data <i>Thomas Esch (German Remote Sensing Data Center, GERMANY); H. Taubenböck; A. Felbier; A. Roth; A. Müller; S. Dech</i></p>
<p>TS-5-5 (Ref. 342)</p>	<p>Passive Remote Sensing as a Tool for Pedestrianization in Urban Revitalization <i>Cecilia May Villanueva (University of Santo Tomas, PHILIPPINES)</i></p>
<p>TS-5-6 (Ref. 634)</p>	<p>The Potential Application of Satellite Images in Bayesian Spatial WITHDRAWN nt Data in Small Area Analysis <i>Jane Law (University of Waterloo, CANADA)</i></p>

TS-6	11-E-1 DATA PROCESSING AND ALGORITHMS
1400 – 1530	Location 1 (Level 1) Chair Kim Lowell, CRC Spatial Information, AUSTRALIA
Display Only (Ref. 719)	Performance Analysis of Image Edge Detection Algorithms in Remote Sensing Qing Guo (CEODE, CHINA); A. Li; Z. Feng; H. Zhang; X. Ge
TS-6-1 (Ref. 29)	Martian Craters Detection by Mathematical Morphology Erivaldo Silva (University Estadual Paulista, BRAZIL); M. Pedrosa; J. Nogueira; P. Pina
TS-6-2 (Ref. 29)	Application of Partial Differential Equations in Image Digital Processing of Remote Sensing Erivaldo Silva (University Estadual Paulista, BRAZIL); V. Sampaio Santiago; J.R. Nogueira
TS-6-3 (Ref. 29)	The Use of Mathematical Morphology in Features Extraction from Digital Image Erivaldo Silva (University Estadual Paulista, BRAZIL); F. Leonardi, E. Anotonio da Silva
TS-6-4 (Ref. 317)	The Role of Quantitative Metrics in Enhancing Spatial Information Retrieval via Fuzzy k-Means Clustering Zhengmao Ye (Southern University, USA); H. Mohamadian
TS-6-5 (Ref. 317)	Implementation of Ant Colony Optimization to Reinforce Discriminating Pattern Discovery in Remote Sensing Zhengmao Ye (Southern University, USA); H. Mohamadian; Y. Ye
TS-6-6 (Ref. 402)	Terrain Slope Correction and Precise Registration of SAR Data for Forest Mapping and Monitoring Eric Lehmann (CSIRO, AUSTRALIA); Z.S Zhou; X. Wu; P. Caccetta; A. Mitchell; I. Tapley; K.Lowell; S. McNeill; A. Milne
TS-6-7 (Ref. 783)	The Comparison of Traditional and Object-Based Classification Methods, a Case Study: Istanbul, Turkey Ibrahim Papila (Istanbul Technical University, TURKEY); Z.D Uca Avci; M. Karaman; E. Ozelkan
TS-6-8 (Ref. 783)	Multiscale Fourier Domain Fusion Technique for Remotely Sensed SPOT Images Ibrahim Papila (Istanbul Technical University, TURKEY); D. Uca Avci; M. Karaman; E. Ozelkan
TS-6-9 (Ref. 799)	A Novel Adaptive Windowing Algorithm Based on Neighborhood Pixels for Mixed-Pixel Decomposition of Remote Sensing Imagery Jianzhong Feng (CAS, CHINA); S. Liu; S. Xu; L. Bai; H. Hu; X. Su
TS-6-10 (Ref. 809)	Analyses of the Geometric Quality of Orthorectified Ikonos Images using Rational Polynomial Coefficients Juliana Mio De Souza (EPAGRI, BRAZIL); R. Ribeiro; A. Zamparetti

TS-7	5-E-1 REMOTE SENSING OF WATER FEATURES
1400 – 1530	Location 2 (Level 1) <i>Chair Tiit Kutser, University of Tartu, ESTONIA</i>
Display Only (Ref. 394)	ENSO Impact on the Sea Surface Properties of the East China Sea <i>Nan-Jung Kuo (National Taiwan Ocean University, TAIWAN); C. Ho; L. Chang; Y. Lo; S. Huang</i>
Display Only (Ref. 405)	The Retrieval Model for Organic Contamination in Waters using Optical Absorption Properties of CDOM <i>Miaofen Huang (CEODE, CHINA); X. Xing; Q. Song; Z. Shen</i>
TS-7-1 (Ref. 515)	High Resolution Multispectral Satellite Data for Mapping Benthic Cover in Turbid Coastal Waters <i>Katarina Eriksson (Vattenfall Power Consultant AB, SWEDEN); P. Philipson</i>
TS-7-2 (Ref. 745)	CALIPSO LiDAR Measurements for Ocean Sub-Surface Studies <i>Sharon Rodier (NASA, USA); Y. Hu; P. Zhai; D. Josset</i>
TS-7-3 (Ref. 426)	Integrated Satellite Monitoring of the Turkmenistan Water Resources <i>Sergey Lebedev (Geophysical Center, Russian Academy Of Sciences, RUSSIA); A. Kostianoy; D. Solovyov</i>
TS-7-4 (Ref. 1148)	NASA's Coastal and Ocean Airborne Science Testbed (Coast) Project <i>Liane Guild (NASA, USA); J. Dungan; M. Edwards; P. Russell; P. Zell; S. Dunagan; S. Hooker; J. Morrow; J. Myers; R. Berthold</i>
TS-7-5 (Ref. 426)	Monthly Anomalies and Trends of the Southern Ocean Temperature, Salinity and Sea Level based on ARGO Buoy and Remote Sensing Data <i>Sergey Lebedev (Geophysical Center, RAS, RUSSIA); N. Zakharova; S. Shauro</i>
TS-7-6 (Ref. 460)	Eddy Activity in the Inner Seas as Seen by Satellite Data <i>Svetlana Karimova (Space Research Institute of RAS, RUSSIA)</i>
TS-8	3-O-2 ECOSYSTEM FUNCTION IN SAVANNAS: AUSTRALIAN SAVANNAS AND WOODY MEASUREMENT
1600 – 1730	Parkside Auditorium <i>Co-Chair Lindsay Hutley, Charles Darwin University, AUSTRALIA</i> <i>Co-Chair Michael Hill, University of North Dakota, USA</i>
TS-8-1 (Ref. 771)	Spatial-Temporal Patterns in Satellite-Derived Fluxes Across a Tropical Savannah Moisture Gradient <i>Alfredo Huete (University of Technology Sydney, AUSTRALIA); D. Eamus; N. Boulain; I. Hutley</i>

TS-8-2 (Ref. 502)	Integrating Remote Sensing, GIS and 1-D Modelling to Estimate Land Clearing Impacts on Catchment Water Balance in the Daly Catchment, NT, Australia. <i>Guy Boggs (Charles Darwin University, AUSTRALIA); C. Petheram; R. Weinmann; L. Hutley</i>
TS-8-3 (Ref. 458)	Towards a Species-Specific Description of Detailed Savanna Woody Structure at Various Scales using Imaging Spectroscopy and Waveform LiDAR Sensing <i>Jan Van Aardt (Rochester Institute of Technology, USA); J. Wu; J. McGlinchy; D. Sarrazin; D. Kelbe; B. Erasmus; R.Mathieu; K. Wessels; G. Asner</i>
TS-8-4 (Ref. 755)	A Role for ALOS PALSAR Data in Vegetation Management, Queensland, Australia <i>John Armston (Dept Environment & Resource Management, AUSTRALIA); R. Lucas; A. Accad; C. Witte; J. Carreiras; D. Clewley; M. Shimada</i>
TS-8-5 (Ref. 327)	Applying Remote Sensing to Detect and Map Groundwater Dependent Ecosystems in North Australia. <i>Richard Weinmann (Charles Darwin University, AUSTRALIA); L. Hutley</i>
TS-8-6 (Ref. 775)	Modelling Gross Primary Productivity of Savanna Vegetation in Northern Australia using MODIS Data <i>Kasturi Kanniah (Universiti Teknologi Malaysia, MALAYSIA); J. Beringer; H. Lindsay</i>
TS-9	1-0-2 AEROSOLS, TRACE GASES AND AIR QUALITY
1600 – 1730	Parkside 110a <i>Co-Chair John Le Marshall, Bureau of Meteorology, AUSTRALIA</i> <i>Co-Chair Leonid Bobylev, NIERSC, RUSSIA</i>
TS-9-1 (Ref. 427)	Synergistic use of LOTOS-EUROS and Retrieved NO ₂ Tropospheric Column to Evaluate the NO _x Emission Trends Over Europe <i>Lyana Curier (Netherlands Space Office, NETHERLANDS); M. Schaap; R. Timmersmans; A. Segers; H. Eskes; D. Swaart</i>
TS-9-2 (Ref. 822)	Using Emission Anomalies in SEVIRI Thermal Channels to Detect and Monitor Airborne Dust over the UAE Desert <i>Hosni Ghedira (Masdar Institute, UNITED ARAB EMIRATES); A. Al-suwaidi</i>
TS-9-3 (Ref. 316)	Monitoring Long-Range Transport of Asian Dust and Air Pollutants over China with Satellite Data <i>Jie Guang (Institute of Remote Sensing Applications, CHINA); Y. Xue; Y. Li; L. Mei; Y. Wang; H. Xu; N .Hu</i>
TS-9- 4 (Ref. 427)	Improved Aerosol Distributions from Synergetic Use of MODIS AOT, in situ PM Observations and the Chemical Transport Model LOTOS-EUROS <i>Lyana Curier (Netherlands Space Office, NETHERLANDS); M. Schaap; R. Timmermans; A. Segers; E. Hendriks</i>

TS-9- 5 (Ref. 595)	Study of Tropospheric Aerosols at New Delhi, India using Micro Pulse LiDAR <i>Sohan Lal Jain (NPL, INDIA); R. Maurya; B.C. Arya; K. Arun</i>
TS-9- 6 (Ref. 420)	Arctic Atmospheric Water Vapor and Cloud Liquid Water Climatologies from Satellite Passive Microwave Data <i>Leonid Bobylev (NIERSC, RUSSIA); E. Zabolotskikh; O. Aniskina</i>
TS-10	10-0-2 ISPRS TC I WORKING GROUP I/1
1600 – 1730	Parkside 110b <i>Co-Chair Andrew Roberts, Northrop Grumman Corporation, USA</i> <i>Co-Chair Jean-Louis Brenguier, European Facility for Airborne Research, FRANCE</i>
TS-10-1 (Ref. 613)	Building an International Forum which Promotes Airborne Science Platform Capabilities <i>Andrew Roberts (Northrop Grumman Corporation, USA); J. Brenguier; J. Huning</i>
TS-10-2 (Ref. 1051)	TOR 1—Coordinate a Forum for Discussion between the International Airborne Science Communities <i>Randy Albertson (NASA, USA)</i>
TS-10-3 (Ref. 229)	An International Forum to Coordinate Community Workshops Addressing Airborne Sciences Sensors <i>Bruce Doddridge (NASA, USA); M. Wendisch</i>
TS-10-4 (Ref. 1162)	Development of an Open Database of Peer-Reviewed Literature on Airborne Science <i>Jean-Louis Brenguier (European Facility for Airborne Research, FRANCE); B. Wells; G. Seielstad</i>
TS-10-5 (Ref. 1162)	TOR 6—Transnational Access—Update <i>Jean-Louis Brenguier (European Facility for Airborne Research, FRANCE)</i>
TS-10-6 (Ref. 496)	TOR 9—Promote the Education and Outreach of an International Basis of Airborne Based Science Activities by Promoting Airborne Science in Order to Attract more Students and Researchers to Airborne Research <i>Catherine Lockwood (CNL World, USA)</i>
TS-10-7 (Ref. 1199)	Towards the Development of International Airborne Platform Data and Instrument Interface Standards <i>Lawrence Freudinger (NASA Dryden, USA); M. Freer; C. Webster; J. Myers</i>
	Discussion: Planning for XXII ISPRS Congress, Melbourne, 25 August – 1 September 2012

TS-11	6-0-1 HYDROLOGIC REMOTE SENSING: MISSIONS AND APPLICATIONS 1
1600 – 1730	G04 (Ground Level) <i>Co-Chair Jeff Walker, Monash University, AUSTRALIA</i> <i>Co-Chair Juan Pablo Guerschman, CSIRO, AUSTRALIA</i>
TS-11-1 (Ref. 237)	<i>In situ Validation Issues in the Soil Moisture Active Passive (SMAP) Satellite Mission</i> <i>Thomas Jackson (Dept Agriculture, USA); M. Cosh;</i> <i>A. Colliander; J. Walker; W. Crow</i>
TS-11-2 (Ref. 1169)	<i>SMOS: A New Tool for Water Resources Management?</i> <i>Yann Kerr (CESBIO, FRANCE)</i>
TS-11-3 (Ref. 766)	<i>Discriminating between Climate and Human-Induced Land Degradation in Mongolia (19882007)</i> <i>Yi Liu (University of NSW, AUSTRALIA); R. De Jeu;</i> <i>J. Evans; M. McCabe; A. van Dijk; A. Dolman; I. Saizen</i>
TS-11-4 (Ref. 223)	<i>The Role of Satellite Observation in Australian Water Resources Monitoring</i> <i>Albert Van Dijk (CSIRO, AUSTRALIA); L. Renzullo</i>
TS-11-5 (Ref. 371)	<i>An Assessment of Satellite-Derived Precipitation Data to Improve Daily Rainfall Analyses for Australia</i> <i>Luigi Renzullo (CSIRO, AUSTRALIA); A. Chappell;</i> <i>T. Raupach; P. Dyce; M. Li; Q. Shao</i>
TS-11-6 (Ref. 287)	<i>Validation of Microwave Remote Sensing Products over Australia</i> <i>Jeffrey Walker (Monash University, AUSTRALIA);</i> <i>C. Rüdiger; Y. Kerr</i>
TS-12	7-0-2 URBAN DOMES, CARBON, CLIMATE AND ENVIRONMENT
1600 – 1730	G05 (Ground Level) <i>Co-Chair Francesco Pignatelli, European Commission, ITALY</i> <i>Co-Chair Marc Imhoff, NASA Goddard, USA</i>
TS-12-1 (Ref. 309)	<i>Sprawling Crisis? Exploring the Crossroads of Urban Growth and Natural Environments with Earth Observation</i> <i>Martin Wegmann (University Of Wuerzburg, GERMANY); H. Taubenboeck; T. Besser; A. Shapiro;</i> <i>S. Ziegler; K. Rajashekariah; T. Esch; S. Dech</i>
TS-12-2 (Ref. 554)	<i>The Conundrum of Impacts of Climate Change on Urbanization and the Urban Heat Island Effect</i> <i>Dale Quattrochi (NASA Earth Science Office, USA)</i>
TS-12-3 (Ref. 370)	<i>Urban Land Cover Transition in the Coastal Region of the Southeast United States</i> <i>George Xian (Earth Resources Observation and Science Centre, USA); C. Homer</i>

<p>TS-12-4 (Ref. 534)</p>	<p>Investigation of Long-Term Impacts of Urbanization and Global Warming in a Coastal Tropical Region <i>Daniel Comarazamy (The City College of New York, USA); J. Gonzalez; J. Luvall</i></p>
<p>TS-12-5 (Ref. 262)</p>	<p>Impact of Urban Growth on Surface Climate: A Case Study in Oran, Algeria <i>Lahouari Bounoua (NASA Goddard, USA); A. Safia; J. Masek; C. Peters-Lidard; M. Imhoff</i></p>
<p>TS-12-6 (Ref. 851)</p>	<p>A Decade of Observations of Carbon Monoxide from the Measurements of Pollution in the Troposphere Instrument (MOPITT) on Terra <i>David Edwards (National Center for Atmospheric Research, USA); J. Gille; M. Deeter; J. Drummond</i></p>
<p>TS-12-7 (Ref. 697)</p>	<p>A Study on Air Pollution Modeling using GIS for Truchirappall, South India <i>Sirajuddin Horaginamani (Bharathidsan University, INDIA); R. Murugesan</i></p>
<p>TS-13</p>	<p>8-E-1 SOCIETAL AND PUBLIC HEALTH BENEFITS OF REMOTE SENSING</p>
<p>1600 – 1730</p>	<p>Location 1 (Level 1) <i>Chair Kathleen Fontaine, NASA Goddard, USA</i></p>
<p>Display Only (Ref. 668)</p>	<p>Retrieving of Inhalable Particulate Matter Based on SPOT Image <i>Ming Tang (Capital Normal University, CHINA); W. Zhao; H. Gong; Z. Gong; W. Zhao; Y. Xiao; W. Yang</i></p>
<p>Display Only (Ref. 685)</p>	<p>Spatial and Temporal Variation of Beijing Inhalable Particulate Matter and its Meteorological Factors Based on Geostatistical Analysis <i>Wenhui Zhao (Capital Normal University, CHINA); H. Gong; W. Zhao; X. Li; Z. Gong</i></p>
<p>TS-13-1 (Ref. 442)</p>	<p>Identification of Earth Observation Data for Health-Environment Studies <i>Ingo Simonis (OGC Europe, UK); D. Arvor; N. Stelling; M. van der Merwe; S. Richter; A. Richter; G. Neumann; J. Arloth; V. Caldairou; V. Soti; C. Quang</i></p>
<p>TS-13-2 (Ref. 527)</p>	<p>Synergies of Environment and Health Information Systems with Space Observations Facilitating New Regulatory Policies <i>Andreas Skouloudis (European Commission, ITALY); D. Rickerby</i></p>
<p>TS-13-3 (Ref. 852)</p>	<p>Delivery of Relevant Remote Sensing and Model Outputs to Public Health End Users through Open Interoperability Standard <i>Karl Benedict (University of New Mexico, USA); W. Hudspeth; S. Morain; A. Budge</i></p>

TS-13-4 (Ref. 259)	Assessing Societal Benefits of Earth Observations for Malaria <i>Lawrence Friedl (NASA HQ, USA); V. Adams; S. Connor; J. Verdin; M. Brown; J. Li</i>
TS-13-5 (Ref. 259)	Malaria: Assessing Impacts of an Earth Observations Applications Project <i>Lawrence Friedl (NASA HQ, USA); V. Adams; S. Connor; J. Verdin; M. Brown; J. Li</i>
TS-13-6 (Ref. 538)	Application of Space Technology in World Heritages Monitoring and Protection <i>Xiaohuan Xi (CEODE, CHINA); W. Cheng; L. Shezhou; W. Xinyuan</i>
TS-13-7 (Ref. 625)	Costs and Benefits of Spatial Data Accuracy on Comprehensive Conservation Planning Assessments <i>Christine Schlepner (Research Unit Sustainability and Global Change, GERMANY); K. Jantke; U.A. Schneider; T. Stacke</i>
TS-13-8 (Ref. 259)	Assessing Societal Benefits from Applications of Earth Observations for Forest Smoke Forecasts and Public Alerts <i>Lawrence Friedl (NASA HQ, USA); E. Hurley; D. Sullivan; N. Larkin; E. Hinds; S. Raffuse</i>
TS-13-9 (Ref. 259)	Earth Observations for Forest Smoke Forecasts and Public Alerts: Assessment of Socioeconomic Benefits <i>Lawrence Friedl (NASA HQ, USA); E. Hurley; D. Sullivan; N. Larkin; E. Hinds; S. Raffuse</i>
TS-14	4-E-1 INFORMATION SYSTEMS FOR PREDICTING AND RESPONDING TO DISASTERS
1600 – 1730	Location 2 (Level 1) <i>Chair Francesco Gaetani, GEO Secretariat, SWITZERLAND</i>
TS-14-1 (Ref. 291)	Detection of Fog Over Land using HJ-1 Data <i>Juan Du (Wuhan University, CHINA); L.M. Liu; W. Li</i>
TS-14-2 (Ref. 716)	Integration of Remote Sensing and GIS for Tree Damage Estimation from Natural Disasters <i>Muhammad Tauhidur Rahman (King Fahd University of Petroleum and Minerals, SAUDI ARABIA)</i>
TS-14-3 (Ref. 816)	Directions in Global Flood and Landslide Nowcasts and Forecasts using Satellite Precipitation Observations <i>Robert Adler (University of Maryland, USA); H. Wu; D. Kirschbaum; Y. Hong; F. Policelli; Y. Tian; H. Pierce</i>
TS-14-4 (Ref. 657)	Informing Adaptation to Sea Level Rise: The Need for a Decadal Local Sea Level Forecasting Service <i>Hans-Peter Plag (Nevada Bureau of Mines and Geology, USA)</i>

TS-14-5 (Ref. 1257)	Emergency Management: e-GEOS Response Capacity and Rapid Mapping <i>Domenico Grandoni (e-GEOS, ITALY)</i>
TS-14-6 (Ref. 203)	Tsunami Decision Support System for Operational Early Warning in Indonesia <i>Torsten Riedlinger (German Aerospace Center (DLR), GERMANY); F. Fauzi; U. Raape; C.J. Keuck; C. Strobl; M. Friedemann; S. Tessmann; G. Strunz; E. Mikusch</i>
TS-14-7 (Ref. 348)	Crisis Information Extraction Based on Rapid Mapping of Remote Sensing Data <i>Huichan Liu (CEODE, CHINA); G. He</i>
TS-14-8 (Ref. 806)	Risk Assessment of Field-Scale Flood Disaster Based on Combined Remote Sensing and Hydrological Dynamics Model <i>Jing Zhang (Capital Normal University, CHINA)</i>
TS-14-9 (Ref. 815)	A Method to Ensure the Potential Debris Flow Area in Zhouqu, China <i>Meiping Wen (CAS, CHINA); Y. Ma</i>
TS-15	9-E-1 GEOLOGICAL APPLICATIONS OF REMOTE SENSING
1600 – 1730	Location 3 (Level 1) <i>Chair Tony Milne, University of NSW, AUSTRALIA</i>
TS-15-1 (Ref. 440)	Spectral Library for Oil Types <i>Vasileia Karathanasi (National Technical University of Athens, GREECE); C. Andreou; P. Kolokoussis</i>
TS-15-2 (Ref. 723)	Analyzing of DEM Accuracy and Kernel Size in Thermal Anomaly Detection <i>Moeen Zohary (University of Tehran, IRAN); M.A. Sharifi</i>
TS-15-3 (Ref. 723)	Thermal Anomalies Detection in Hormozgan Province using Landsat Data <i>Moeen Zohary (University of Tehran, IRAN); M.A. Sharifi</i>
TS-15-4 (Ref. 802)	Mine Environmental Monitoring using CHRIS-PROBA Imagery of the Dexing Copper Mine, China <i>Simitkumar Raval (University of NSW, AUSTRALIA); R. Merton; D. Laurence</i>
TS-15-5 (Ref. 598)	Neotectonics from ASTER GDEM through Surface Dynamics and Basin Asymmetry Analysis (Swat Valley, N. Pakistan) <i>Syed Amer Mahmood (TU Freiberg, GERMANY); V. Leisenberg; R. Gloaguen</i>
TS-15-6 (Ref. 598)	Characterization of Geological and Geomorphological Features by Spectral Analysis of Hyperion; ASTER and Landsat Data in Chitral Valley (N. Pakistan) <i>Syed Amer Mahmood (TU Freiberg, GERMANY); V. Leisenberg; R. Gloaguen</i>

TUESDAY 12 APRIL 2011

PROGRAM AT A GLANCE – TUESDAY 12 APRIL

		ORAL PRESENTATIONS			ELECTRONIC PRESENTATIONS			
ROOM		Parkside 110a	Parkside 110b	G04	G05	Location 1	Location 2	Location 3
		Level 1	Level 1	Ground Level	Ground Level	Level 1	Level 1	Level 1
		PS-2						
0900 – 1030		Space Agency Reports: Earth Observation Programs						
1030 – 1100		MORNING TEA & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)						
		TS-16 3-0-3	TS-17 9-0-2	TS-18 5-0-1	TS-19 1-0-3	TS-20 10-0-3	TS-21 4-E-2	TS-22 1-E-1
1100 – 1230		Forests and Forest Management	Regional Land Mapping and Monitoring	Phytoplankton Dynamics and Operational Oceanography	Phenology, Seasonality and Satellite Time Series	Airborne Science Applications 1	Biomass Burning: New Perspectives on Quantitative Characterization and Monitoring (5)	Weather, Forecasting and Aerosols

LUNCH & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1) (Lunch at own arrangements)														
1230 – 1400	TS-23	3-O-4	TS-24	11-O-1	TS-25	5-O-2	TS-26	9-O-3	TS-27	10-O-4	TS-28	3-E-1	TS-29	7-E-1
1400 – 1530		Vegetation Structure and Physiology 1	Missions and Instruments	Shallow Water Habitats in Temperate Environments: Bathymetry and Sun Glint	ESA-MOST China Dragon 2 Programme: 1. Atmospheric and Marine Applications	Airborne Programs: International and National	Landscape Dynamics and Conservation	Urban Remote Sensing						
TEA & COFFEE BREAK & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)														
1530 – 1600	TS-30	3-O-5	TS-31	11-O-2	TS-32	6-O-2	TS-33	9-O-4	TS-34	8-O-1	TS-35	3-E-2	TS-36	1-E-2
1600 – 1730		Vegetation Structure and Physiology 2	National Data and Programs	Hydrologic Remote Sensing: Missions and Applications 2	ESA-MOST China Dragon 2 Programme: 2. Land Applications	Remote Sensing Uses in Public Health	Land Use and Land Cover Change	Land Surface 2: Climate and Trends						
1730 – 1800		BREAK												
1800 – 1900		PS-3	Space Policy Panel and Discussion											

TUESDAY 12 APRIL 2011

TUESDAY 12 APRIL 2011

PS-2

SPACE AGENCY REPORTS: EARTH OBSERVATION PROGRAMS

0900 – 1030

Parkside Auditorium
Chair Alex Held, CSIRO, AUSTRALIA

KEYNOTE SPEAKERS

Lawrence Friedl, NASA, USA
Stephen Briggs, ESA, EUROPE
Masanori Homma, JAXA, JAPAN
Jacob Malana, ISRO, INDIA
Guo Huadong, CEODE, CAS, CHINA

TS-16

3-0-3 FORESTS AND FOREST MANAGEMENT

1100 – 1230

Parkside Auditorium
Co-Chair Russell Turner, Industry and Investment NSW Science and Research, AUSTRALIA
Co-Chair David Roy, South Dakota State University, USA

TS-16-1
(Ref. 213)

Individual Tree Detection Based on Variable and Fixed Window Size Local Maxima Filtering Applied to Ikonos Imagery for Even-Aged Eucalyptus Plantation Forests
Michael Gebreslasie (South Africa Medical Research Council, SOUTH AFRICA); F. Ahmed; J. van Aardt

TS-16-2
(Ref. 323)

Towards an Operational LiDAR Resource Inventory Process in Australian Softwood Plantations
Russell Turner (Industry and Investment NSW Science and Research, AUSTRALIA); C. Stone

TS-16-3
(Ref. 749)

Detecting a Fire-sensitive Species in a Fire-prone Landscape: Object-based Rule-set Driven Approaches
Tim Whiteside (Institute of Indigenous Tertiary Education, AUSTRALIA)

TS-16-4
(Ref. 805)

Investigation on Satellite Data Fusion Operation Effects on Accuracy of Forest Type Classification (Case Study: Mazandaran Province)
Farahnaz Rashidi (Islamic Azad University, IRAN); S. Babaie Kafaki; A. Dargahi

TS-16-5
(Ref. 323)

Analysis of Pine Tree Height Estimation Using Full Waveform LiDAR
Russell Turner (Industry and Investment NSW Science and Research, AUSTRALIA); H. Park; S. Lim; J. Trinder; M. David

TS-16-6
(Ref. 648)

Remote Sensing in Assessment of Forest Dieback and in Regeneration Processes
Siri Jodha Khalsa (University of Colorado, USA); F. Zemek; M. Edwards

TS-17	9-O-2 REGIONAL LAND MAPPING AND MONITORING
1100 – 1230	Parkside 110a <i>Co-Chair Brendon McAtee, Landgate, AUSTRALIA</i> <i>Co-Chair Alessandro Burini, ESA, ITALY</i>
TS-17-1 (Ref. 583)	Understanding Environmental Changes using Satellite Imagery as a Monitoring Tool <i>Graeme Behn (WA Dept Environment and Conservation, AUSTRALIA); K. Zdunic</i>
TS-17-2 (Ref. 461)	State-Wide Inter-Annual Changes to Foliage Projective Cover: Better Products From Higher Resolution Satellite Imagery and Improved Processing Methodologies <i>Arndt Meier (Dept Environment and Climate Change, AUSTRALIA); T. Danaher; T. Gill; S. Smith; G. Horn; N. Flood</i>
TS-17-3 (Ref. 795)	Towards Transferable Large-Area Land Cover Mapping in Central Asia using MODIS Time Series <i>Ursula Gessner (University of Wuerzburg, GERMANY); T. Wehrmann; J. Huth; S. Gebhardt; V. Naemi; C. Kuenzer; S. Dech</i>
TS-17-4 (Ref. 352)	GEOLAND 2 : Operational Delivery of Biophysical Products and Services for GMES Land Monitoring Core Service <i>Philippe Pacholczyk (Center National d'Etudes Spatiales, FRANCE); R. Lacaze; B. Smets; S. Freitas</i>
TS-17-5 (Ref. 660)	Validation of GMES GEOLAND-2 Global Biophysical Variables (GEO Version 1) Products <i>Fernando Camacho (Eolab Spain, SPAIN); F. Baret; J. Cernicharo; R. Lacaze; M. Weiss</i>
TS-17-6 (Ref. 250)	Continent-Wide DEM Creation for the European Union <i>Andrew Bashfield (Intermap Technologies Pty Ltd, AUSTRALIA); A. Keim</i>
TS-18	5-O-1 PHYTOPLANKTON DYNAMICS AND OPERATIONAL OCEANOGRAPHY
1100 – 1230	Parkside 110b <i>Co-Chair Scarla Weeks, University of Queensland, AUSTRALIA</i> <i>Co-Chair Martin Wegmann, University Of Wuerzburg, GERMANY</i>
TS-18-1 (Ref. 273)	Monitoring Annual and Seasonal Variability of Dinoflagellate Blooms in Monterey Bay, California (USA) with the Moderate Resolution Imaging Spectrometer <i>Andrew Fischer (University of Tasmania, AUSTRALIA); J. Ryan</i>

TUESDAY 12 APRIL 2011

TS-18-2 (Ref. 543)	Remote Sensing of The Degradation of Coastal Waters via Phytoplankton Functional Groups <i>Mervyn Lynch (Curtin University, AUSTRALIA); G. Johnsen; P. Fearn; G. Riebau</i>
TS-18-3 (Ref. 26)	SeaWiFS And MODIS: A Sequential Mapping of Harmful Algal Blooms Along the French East Atlantic Coastal Waters <i>Dmitry Pozdnyakov (Nansen International Environmental And Remote Sensing Center, RUSSIA); E. Morozov; L. Pettersson; V. Sychev</i>
TS-18-4 (Ref. 589)	Marine Resources and the Need for Operational Oceanography <i>David Griffin (CSIRO, AUSTRALIA); M. Cahill</i>
TS-18-5 (Ref. 633)	The MORSE Project: Coordinated Earth Observations for Arctic Coastal Ecosystems <i>Jason Duffe (Environment Canada, CANADA); S. Solomon; Y. Crevier</i>
TS-18-6 (Ref. 908)	Use of Ocean Colour from IRS – Oceansat and Sea Surface Temperature (SST) from NOAA AVHRR for Developing Web-based Solutions for Ocean Information and Services <i>Jacob Malana (Orbit Australia, Pty Ltd., AUSTRALIA); A. Narain</i>
TS-18-7 (Ref. 210)	Operational Satellite Monitoring Systems for Marine Oil and Gas Industry <i>Dmytro Solovyov (Marine Hydrophysical Institute, UKRAINE); A. Kostianoy</i>
TS-18-8 (Ref. 885)	New Australian Sea Surface Temperature Products from the Integrated Marine Observing System <i>George Paltoglou (Centre for Australian Weather and Climate Research, AUSTRALIA); H. Beggs; L. Majewski</i>
TS-19	1-O-3 PHENOLOGY, SEASONALITY AND SATELLITE TIME SERIES
1100 – 1230	G04 (Ground Level) <i>Co-Chair Willem van Leeuwen, University of Arizona, USA</i> <i>Co-Chair Alfredo Huete, University of Technology Sydney, AUSTRALIA</i>
TS-19-1 (Ref. 258)	Merging Climate and Multi-Sensor Time-Series Data in Real-Time Drought Monitoring Across the USA <i>Jesslyn Brown (US Geological Survey, USA); T. Miura; B. Wardlow; Y. Gu</i>
TS-19-2 (Ref. 403)	Vegetation Index Variations In Arctic Zone of Eastern Siberia <i>Eugenia Varlamova (Shafer Institute Of Cosmophysical Research And Aeronomy, RUSSIA); V. Solovyev</i>

TS-19-3 (Ref. 751)	Remotely Sensed Vegetation Phenology of Sky Islands in the Madrean Archipelago <i>Willem van Leeuwen (University of Arizona, USA); A. El Vilaly</i>
TS-19-4 (Ref. 495)	Seasonal Variation in Leaf Optical Properties at Two Tropical Forest Sites <i>Michael Hesketh (University of Alberta, CANADA); A. Sánchez-Azofeifa</i>
TS-19-5 (Ref. 652)	Compatibility Analysis Of Multi-Sensor Vegetation Indices Using EO-1 Hyperion Data <i>Tomoaki Miura (University of Hawaii at Manoa, USA); J. Tsend-Ayush</i>
TS-19-6 (Ref. 341)	Detection of Breakpoints in Global Greening and Browning Trends <i>Rogier De Jong (Wageningen University, NETHERLANDS); S. De Bruin; M. Schaepman</i>
TS-20	10-O-3 AIRBORNE SCIENCE APPLICATIONS 1
1100 – 1230	G05 (Ground Level) <i>Co-Chair Guo Huadong, Center For Earth Observation and Digital Earth, CAS, CHINA</i> <i>Co-Chair Andrew Roberts, Northrop Grumman Corporation, USA</i>
TS-20-1 (Ref. 472)	3D Spatial Distribution Of Biophysical Parameters Derived From Hyperspectral and LiDAR Remote Sensing. Improving the Constraints in Land Surface Modelling <i>Jose Berni (CSIRO, AUSTRALIA); N. Kljun; E. van Gorsel; V. Haverd; R. Leuning; A. Cabello-Leblic; A. Held; C. Hopkinson; L. Chasmer</i>
TS-20-2 (Ref. 357)	NASA's Earth Venture-1 (EV-1) Airborne Science Investigations <i>Anthony Guillory (NASA, USA)</i>
TS-20-3 (Ref. 699)	Large Area Hyperspectral Mapping Using High Altitude Aircraft: An Example from Afghanistan <i>Terry Cocks (Hyvista Corp, AUSTRALIA); T. King; P. Purdy; R. Kokaly</i>
TS-20-4 (Ref. 42)	Real Time Airborne Monitoring for Disaster and Traffic Applications <i>Peter Reinartz (National Research Center for Aeronautics and Space, GERMANY); F. Kurz; D. Rosenbaum; J. Leitloff; O. Meynberg; T. Reize</i>
TS-20-5 (Ref. 720)	Know the Territory to Manage: Aerophotogrammetry in the Use of Water Resources and Territory Management <i>Thobias Furlanetti (Government, BRAZIL); F.R.B. Victoria</i>

TS-21

4-E-2 BIOMASS BURNING: NEW PERSPECTIVES ON QUANTITATIVE CHARACTERIZATION (5) FORECASTING AND MONITORING

1100 – 1230

Location 1 (Level 1)

Chair Edward Hyer, Naval Research Laboratory, USA

TS-21-1
(Ref. 144)

NASA's Autonomous Modular Scanner (AMS) – Wildfire Sensor: Improving Wildfire Observations From Airborne Platforms
Vincent Ambrosia (California State University, USA); J. Myers; E. Hildum

TS-21-2
(Ref. 416)

Processing Smoke Plume Products from the Moderate Resolution Imaging Spectroradiometer (MODIS) within a Workflows Environment
Mark Broomhall (Curtin University, AUSTRALIA); H. Chedzey; P. Fearn; R. Garcia; M. Lynch; E. King; G. Smith; D. Schibeci

TS-21-3
(Ref. 277)

Multi-Sensor Rapid Fire Damage Assessment Over Mediterranean Area
Alessandro Burini (ESA, ITALY); E. Cadau; C. Putignano; F. Gascon Roca; P. Goryl

TS-21-4
(Ref. 183)

SIGRI Project: The Development Of The Fire Vulnerability Index
Giovanni Laneve (University of Rome, ITALY); M. Jahjah; F. Ferrucci; F. Battazza

TS-21-5
(Ref. 562)

The Impact of Changing Fire Seasonality on Fire-Induced Albedo Change Surface Radiative Forcing In West Arnhem Land, Northern Australia
David Roy (South Dakota State University, USA); J. Yeom; L. Boschetti; J. Russell-Smith; Y. Jin; J. Ju

TS-21-6
(Ref. 831)

Biomass Burning Plume Injection Height Estimates using CALIOP, MODIS and the NASA Langley Back Trajectory Model.
Amber Soja (NASA National Institute of Aerospace, USA); D. Fairlie; D. Westberg; G. Pouliot; C. Ichoku; L. Giglio; J. Szykman

TS-21-7
(Ref. 503)

Assimilation of Vegetation Fractional Cover Information into Radiative Transfer Models to Map Life Fuel Moisture Content
Marta Yebra (CSIRO, AUSTRALIA); S. Jurdao; J.P. Guerschman; E. Chuvieco

TUESDAY 12 APRIL 2011

TS-22	1-E-1 WEATHER, FORECASTING AND AEROSOLS
1100 – 1230	Location 2 (Level 1) <i>Chair Stuart Young, CSIRO, AUSTRALIA</i>
Display Only (Ref. 68)	A Study of Typhoon Intensity Change using Satellite Remote Sensing Data <i>Chung Ru Ho (National Taiwan Ocean University, TAIWAN); Y.C. Chang; Y.H. Lee; Z.W. Zheng; S.J. Huang; N.J. Kuo</i>
TS-22-1 (Ref. 552)	Full Optical Simulation of Partly Cloud Scenes <i>Robert Sundberg (Spectral Sciences Incorporated, USA); S. Richtsmeier</i>
TS-22-2 (Ref. 316)	Integration of MODIS Aerosol Products For Estimating Impact of The Russian Wildfires Over Europe And Asia During August 2010 <i>Jie Guang (Institute of Remote Sensing Applications, CHINA); L. Mei; Y. Xue; Y.J. Li; Y. Wang; H. Xu; J.W.Ai</i>
TS-22-3 (Ref. 531)	Atmospheric Aerosol Properties – A Baltic Sea Case Study Based on Aeronet Data <i>Petra Philipson (Vattenfall Power Consultant, SWEDEN); A. Krusper</i>
TS-22-4 (Ref. 622)	Comparison of Products of Processing Airborne NASA and Russian Data <i>Irina Melnikova (Russian State Hydrometeorological University, RUSSIA); G. Jefwa; C. Gatebe</i>
TS-22-5 (Ref. 29)	Directions of Martian Dust Devils Movement Inferred from Automatic Detection of their Tracks using Mathematical Morphology <i>Erivaldo Silva (University Estadual Paulista, BRAZIL); T. Statella</i>
TS-22-6 (Ref. 734)	On The Enhancement of Infrared Satellite Precipitation Estimates using Genetic Algorithm Filter-based Feature Selection <i>Nicolas Younan (Mississippi State University, USA); M. Mahrooghy; V. Anantharaj; J. Aanstoos</i>
TS-22-7 (Ref. 358)	Adapting CALIPSO Climate Measurements for Near Real Time Analyses and Forecasting <i>Mark Vaughan (NASA Langley Research Center, USA); C. Trepte; D. Winker; J. Campbell; R. Hoff; S. Young; B. Getzewich; J. Tackett; M. Avery</i>
TS-22-8 (Ref. 421)	Enhanced Techniques for Mesoscale Low Studies Using Satellite Passive Microwave Data <i>Elizaveta Zabolotskikh (Nansen International Environmental and Remote Sensing Center, RUSSIA); L. Bobylev; L. Mitnik</i>
TS-22-9 (Ref. 78)	LiDAR Measurements of Atmospheric Aerosols <i>Alexander Yegorov (Russian State University, RUSSIA); I. Potapova; Y. Rzhonsnitskaya; N. Sanotskaya</i>
TS-22-10 (Ref. 78)	Optical Measurements of Aerosol Particles Sizes <i>Alexander Yegorov (Russian State University, RUSSIA); I. Potapova; Y. Rzhonsnitskaya; N. Sanotskaya</i>

TS-23 **3-0-4 VEGETATION STRUCTURE AND PHYSIOLOGY 1**

1400 – 1530 **Parkside Auditorium**
Co-Chair Alan Strahler, Boston University, USA
Co-Chair Darius Culvenor, CSIRO, AUSTRALIA

TS-23-1
(Ref. 324) Biophysical Parameter Estimation of Pinus Trees from Satellite Images Using Artificial Neural Networks
Ali Shamsoddini (University of NSW, AUSTRALIA); J. Trinder

TS-23-2
(Ref. 824) Hyperspectral Remote Sensing of Sagebrush Canopy Nitrogen
Nancy Glenn (Idaho State University, USA); J. Mitchell, T. Sankey, M. Anderson, R. Hruska

TS-23-3
(Ref. 767) Classification of Vegetation Species at Leaf Level Using Hyperspectral Reflectance Data and SVM
Xiao Shang (University of Wollongong, AUSTRALIA); L.A. Chishom; B. Datt

TS-23-4
(Ref. 512) On the Relationship between MERIS Terrestrial Chlorophyll Index (MTCI) and the Components of FAPAR
Booker Ogutu (University of Southampton, UK); J. Dash; T. Dawson

TS-23-5
(Ref. 264) Characterising Heterogeneous Vegetated Surfaces Using Multiangular Satellite Data
Geoff McCamley (RMIT University, AUSTRALIA); S. Jones; C. Bellman; I. Grant

TS-23-6
(Ref. 501) Spatial Variability of the Estimation of Vegetation Biochemical Parameters using Hyperspectral Spectral Indices in Australian Savannas
Reza Amiri (Monash University, AUSTRALIA); J. Beringer; P. Isaac

TS-24 **11-0-1 MISSIONS AND INSTRUMENTS**

1400 – 1530 **Parkside 110a**
Co-Chair Leong Keong Kwoh, Centre for Remote Imaging Sensing and Processing, SINGAPORE
Co-Chair Ellsworth LeDrew, University of Waterloo, CANADA

TS-24-1
(Ref. 545) Research on the Simultaneous Satellite-Airborne-Ground Observation Experiment Platform for Global Change
Jiantao Bi (Center for Earth Observation and Digital Earth, BEIJING); H. Guo; X. Wang

TS-24-2
(Ref. 722) The Landsat Data Continuity Mission – Continuation of the Landsat Program
Thomas Cecere (US Geological Survey, USA); B. Quirk; J. Willems

TUESDAY 12 APRIL 2011

TS-24-3 (Ref. 1139)	The ALOS Global Systematic Acquisition Strategy – 5 Years In Operation <i>Ake Rosenqvist (soloEO, SWEDEN); M. Shimada; T. Tadono</i>
TS-24-4 (Ref. 1033)	Resourcesat-2: The New Generation Remote Sensing Satellites from India for Natural Resources Management <i>Jacob Cyriac Malana (Orbit Australia Pty Ltd, AUSTRALIA); M. Remilla; V. Mantravadi; H.N. Madhusudhana</i>
TS-24-5 (Ref. 354)	VENUS: Vegetation and Environment Monitoring on a New Micro Satellite <i>Pierric Ferrier (CNES, FRANCE); P. Crebassol; G. Dedieu; O. Hagolle</i>
TS-24-6 (Ref. 825)	COSMO-SkyMed, Results and Capabilities During the Operational Phase <i>Fabrizio Paolillo (Italian Space Agency, ITALY); A. Coletta</i>
TS-25	5-O-2 SHALLOW WATER HABITATS IN TEMPERATE ENVIRONMENTS: BATHYMETRY AND SUN GLINT
1400 – 1530	Parkside 110b <i>Co-Chair Arnold Dekker, CSIRO, AUSTRALIA</i> <i>Co-Chair Samantha Lavender, ARGANS Limited, UK</i>
TS-25-1 (Ref. 516)	Sea Floor Classification with WorldView-2 and Bathymetry Data <i>Michael Tulldahl (Swedish Defence Research Agency, SWEDEN); P. Philipson</i>
TS-25-2 (Ref. 774)	Spatial analysis of multibeam acoustic data for the prediction of marine substrates and benthic communities in temperate coastal waters <i>Vanessa Lucieer (University of Tasmania, AUSTRALIA); N. Hill; N. Barrett; S. Nichol</i>
TS-25-3 (Ref. 1009)	Using High Spatial Resolution Remote Sensing, Spatial Modelling and Web Map Services for Spatial Planning In Shallow Coastal Water Environments <i>Tiit Kutser (University of Tartu, ESTONIA); J. Kotta; E. Vahtmäe; M. Parnojä; L. Lennuk; T. Moller</i>
TS-25-4 (Ref. 758)	Shallow Water Bathymetry from Ocean Color Satellites <i>Zhongping Lee (Mississippi State University, USA); C. Hu; B. Casey; S. Shang; H. Dierssen; Z. Liu; R. Arnone</i>
TS-25-5 (Ref. 302)	Using Airborne and Satellite Imagery to Map Eelgrass Distribution in The Gulf Islands National Park Reserve, British Columbia, Canada <i>Jennifer O'Neill (University of Victoria, CANADA); M. Costa; T. Sharma</i>

TS-26	9-0-3 ESA-MOST CHINA DRAGON 2 PROGRAM: 1. ATMOSPHERIC AND MARINE APPLICATIONS
1400 – 1530	G04 (Ground Level) <i>Co-Chair Yves-Louis Desnos, ESA, ITALY</i> <i>Co-Chair Zengyuan Li, Institute of Forest Resources Information Techniques, CHINA</i>
TS-26-1 (Ref. 576)	Status of the Dragon 2 Programme at the Mid Term Stage <i>Yves-Louis Desnos (European Space Agency, ITALY); Z. Li; A. Zmuda; Z. Gao</i>
TS-26-2 (Ref. 612)	Satellite Remote Sensing Atmospheric Compositions, Products Validation and Data Application In China <i>Peng Zhang (National Satellite Meteorological Center, CHINA); X. Y. Zhang; W.G. Bai; W.H. Wang; F.X. Huang; X.J. Li; L.Sun; G. Wang; J. Qi; H. Qiu</i>
TS-26-3 (Ref. 611)	Temporal and Spatial Distribution of Tropospheric CO ₂ over China based on Satellite Observations during 2003–2010 <i>Xingying Zhang (National Satellite Meteorological Center, CHINA); B. Wen; P. Zheng</i>
TS-26-4 (Ref. 994)	Drought Monitoring, Prediction and Adaptation under Climatic Changes <i>Weiqiang Ma (Charles Sturt University, AUSTRALIA); B. Su; W. Ma; L. Zhong; J. Wen; Y. He; L. Wan; Q. Liu; Q. Yu; X. Li</i>
TS-26-5 (Ref. 621)	Typhoon Monitoring using Synthetic Aperture Radar (SAR) over China Seas <i>Xiaoming Li (German Aerospace Center, GERMANY); S. Lehner; W. Rosenthal</i>
TS-27	10-0-4 AIRBORNE PROGRAMS: INTERNATIONAL AND NATIONAL
1400 – 1530	G05 (Ground Level) <i>Co-Chair Andrew Roberts, Northrop Grumman Corporation, USA</i> <i>Co-Chair Jason Tomlinson, Pacific Northwest National Laboratory, USA</i>
TS-27-1 (Ref. 1162)	Eufar: The European Network of Research Aircraft for the Environment <i>Jean-Louis Brenguier (European Facility for Airborne Research, FRANCE)</i>
TS-27-2 (Ref. 1187)	Airborne Remote Sensing in Australia Using Small, Modern, Highly Cost-Efficient Platforms – Capabilities and Examples <i>Jorg Hacker (Flinders University, AUSTRALIA)</i>

TS-27-3 (Ref. 1192)	Development of Airborne Remote Sensing Systems and Sciences <i>Guo Huadong (Center For Earth Observation and Digital Earth, CAS, CHINA)</i>
TS-27-4 (Ref. 229)	Airborne Science Programs of the National Science Foundation (USA) <i>Bruce Doddridge (NASA, USA)</i>
TS-27-5 (Ref. 1051)	NASA's Airborne Science Program <i>Randy Albertson (NASA, USA); B. Tagg; S. Schoenung</i>
TS-28	3-E-1 LANDSCAPE DYNAMICS AND CONSERVATION
1400 – 1530	Location 1 (Level 1) <i>Chair Simon Oliver, Dept Sustainability, Environment and Water, AUSTRALIA</i>
TS-28-1 (Ref. 53)	On The Contribution of Remote Sensing to DOPA, A Digital Observatory for Protected Areas <i>Gregoire Dubois (Joint Research Centre of the European Commission, ITALY); M. Clerici; J.F. Pekel; A. Brink; I. Palumbo; D. Gross; S. Peedell; D. Simonetti; M. Punga</i>
TS-28-2 (Ref. 268)	Geospatial Technology for Land Reclamation Monitoring of Opencast Coal Mining Projects In India <i>Narendra Singh (Central Mine Planning and Design Institute, INDIA); V. K. Gupta; A.K. Singh</i>
TS-28-3 (Ref. 274)	Operational Observation of the Australian Landscape with Bands 8–19 of MODIS <i>Brendon McAtee (Landgate, AUSTRALIA); M. Lynch; P. Fearn; M. Broomhall</i>
TS-28-4 (Ref. 295)	Ecological Network Planning for the Asiatic Black Bears in Fuji-Tanzawa Region, Japan <i>Tomoko Doko (Keio University, JAPAN); H. Fukui; T. Ichinose; W. Chen</i>
TS-28-5 (Ref. 369)	Monitoring the Biodiversity Loss in Pampa Biome using NDVI Multitemporal Profiles <i>Filipe Melechi Evangelista (Universidade Federal Do Rio Grande Do Sul, BRAZIL); E. Lima da Fonseca</i>
TS-28-6 (Ref. 605)	Corridor of Land Use Scenario to Support the Tiger Habitat Conservation and Regional Economy Development In Dangku's Landscape, South Sumatera <i>Dudy Nugroho (ZSL Indonesia, INDONESIA); G. Suprianto</i>
TS-28-7 (Ref. 75)	Use and Occupation of Landscape Area Environmental Protection the Headwaters of the Paraguay River – Brazilian Pantanal <i>Rodolfo Curvo (IFMT, BRAZIL); J. Silva; L. Vieira; C. Pinto</i>

TS-28-8 (Ref. 307)	Analysis on Landscape Pattern Change in Rural Area Resulted from Land Rehabilitation Based on Object Oriented Image Interpretation Method <i>Haiyan Zhu (Wuhan University, CHINA)</i>
TS-28-9 (Ref. 807)	The Satellites Data Use for Monitoring the Degradation Process of Natural Resources in Semi Arid Zones (Algeria) <i>Hassen Benmessaoud (University Of Batna, ALGERIA); M. Kalla</i>
TS-28-10 (Ref. 788)	Assessment of Desertification in Sistan Plain using Remote Sensing Technique and GIS <i>Soheila Noori (University of Zabol, IRAN); A.R. Shahriyari; H. Shafie</i>
TS-29	7-E-1 URBAN REMOTE SENSING
1400 – 1530	Location 2 (Level 1) <i>Chair Ping Zhang, NASA Goddard, USA</i>
TS-29-1 (Ref. 35)	Analysis of Urban Thermal Characteristics and Associated Land Cover in Cheongju using KOMPSAT and LANDSAT Satellite Data <i>Jong Hwa Park (Chungbuk National University, KOREA); S. I. Na</i>
TS-29-2 (Ref. 618)	Analysis of Relationship between Surface Temperature and Shade in an Urban Area by ASTER and PRISM Data <i>Soushi Kato (National Institute for Environmental Studies, JAPAN); T. Matsunaga; R. Nakamura; Y. Yamaguchi</i>
TS-29-3 (Ref. 763)	Urban Object Extraction using the Distribution of Gradient Directions <i>Jinfei Wang (University of Western Ontario, CANADA); K. Zhang</i>
TS-29-4 (Ref. 763)	Urban Building Mapping using LiDAR and Relief-Corrected Colour-Infrared Aerial Images <i>Jinfei Wang (University of Western Ontario, CANADA); B. Lehbass; C. Zeng</i>
TS-29-5 (Ref. 306)	Kapuas River along Pontianak City: Urban Zone and Human Attitude <i>Husnul Khatimah Iqbal (University Of Tanjungpura, INDONESIA); Y. Hakim</i>
TS-29-6 (Ref. 333)	A Study on the Urban and Rural Landscape Pattern Changes along the Great Canal in Shandong, China based on Remote Sensing Techniques <i>Chuansheng Liu (Center For Earth Observation and Digital Earth, CHINA); X. Wang</i>
TS-29-7 (Ref. 544)	The Future of GIS in Supporting the Public Participation Process within Urban Governance in Egypt <i>Ayman Afify (Helwan University, EGYPT)</i>

<p>TS-29-8 (Ref. 571)</p>	<p>Factors Influencing Waste Management in Jinja Municipal Council (JMC) <i>God Kisitu (Rakai Community Development Trust, RAKAI); B. Nabatanzi; S. Muwonge; E. Mbidde</i></p>
<p>TS-30</p>	<p>3-0-5 VEGETATION STRUCTURE AND PHYSIOLOGY 2</p>
<p>1600 – 1730</p>	<p>Parkside Auditorium <i>Co-Chair Darius Culvenor, CSIRO, AUSTRALIA</i> <i>Co-Chair Alan Strahler, Boston University, USA</i></p>
<p>TS-30-1 (Ref. 830)</p>	<p>Using a Full-Waveform, Ground-Based, Scanning LiDAR (Echidna®) to Retrieve Forest Vegetation Structural Parameters in American Hardwood and Conifer Stands <i>Alan Strahler (Boston University, USA); T. Yao; F. Zhao; X. Yang; C. Schaaf; C. Woodcock; D. Jupp; D. Culvenor; G. Newnham; J. Lovell</i></p>
<p>TS-30-2 (Ref. 824)</p>	<p>Modeling Semiarid Low-Height Vegetation with Airborne LiDAR <i>Nancy Glenn (Idaho State University, USA); J. Mitchell; L. Spaete; T. Sankey; R. Shrestha; S. Hardegree</i></p>
<p>TS-30-3 (Ref. 275)</p>	<p>Prediction of Vegetation Structure from LiDAR and Multispectral Satellite Data in a Topographically Complex Landscape, Eastern Australia <i>Sisira Ediriweera (Southern Cross University, AUSTRALIA); S. Pathirana; A. Specht; T. Danaher</i></p>
<p>TS-30-4 (Ref. 676)</p>	<p>Spectroscopic Determination of Leaf Water Content using Continuous Wavelet Analysis <i>Arturo Sanchez-Azofeifa (University of Alberta, CANADA); T. Cheng; B. Rivard</i></p>
<p>TS-30-5 (Ref. 418)</p>	<p>Effect of Atmospheric Correction on Above Ground Biomass Estimation in an Evergreen Forest Environment <i>Chanida Suwanprasit (University of Salzburg, AUSTRIA)</i></p>
<p>TS-30-6 (Ref. 677)</p>	<p>Endophyte Diversity Mediates Leaf Optical Properties <i>Wilson Fernandes (Universidade Federal De Minas Gerais, BRAZIL); A. Sanchez-Azoeifa; Y. Oki; R. Ball; J. Gamon</i></p>

TUESDAY 12 APRIL 2011

TS-31	11-O-2 NATIONAL DATA AND PROGRAMS
1600 – 1730	Parkside 110a <i>Co-Chair Gunter Schreier, German Remote Sensing Data Center, GERMANY</i> <i>Co-Chair Kasper Johansen, University of Queensland, AUSTRALIA</i>
TS-31-1 (Ref. 272)	The Enduring Legacy of IPY in Canada: Sharing the Data <i>Ellsworth LeDrew (University of Waterloo, CANADA); W. Vincent</i>
TS-31-2 (Ref. 797)	Operation Plan Study for Japanese Future Spaceborne Hyperspectral Mission: HISUI <i>Tsuneo Matsunaga (National Institute for Environmental Studies, JAPAN); S. Yamamoto; O. Kashimura; T. Tachikawa; K. Ogawa; A. Iwasaki; S.Tsuchida; N. Ohgi</i>
TS-31-3 (Ref. 110)	Overview of ESIP Federation Involvement in International Earth Science Interoperability Activities <i>Carol Meyer (Federation of Earth Science Information Partners, USA); W. Christopher Lenhardt</i>
TS-31-4 (Ref. 454)	EUROGEOSS: An Interdisciplinary Approach to Research and Applications for Forestry, Biodiversity and Drought <i>Jay Pearlman (IEEE, USA); M. Craglia; G. Gaigalas; S. Niemeyer; G. Dubois; F. Bertrand; S.Nativi; S. Fritz</i>
TS-31-5 (Ref. 167)	Contributions to Global Monitoring of Environment and Security (GMES) of the German Remote Sensing Data Center <i>Gunter Schreier (German Remote Sensing Data Center, GERMANY); S. Dech; E. Diedrich; E. Mikusch; H. Maass</i>
TS-32	6-O-2 HYDROLOGIC REMOTE SENSING: MISSIONS AND APPLICATIONS 2
1600 – 1730	Parkside 110b <i>Co-Chair Jeffrey Walker, Monash University, AUSTRALIA</i> <i>Co-Chair Yann Kerr, Cesbio, FRANCE</i>
TS-32-1 (Ref. 690)	A New Approach to Snow Detection in Australia using MODIS and Landsat TM <i>Kathryn Bormann (University of NSW, AUSTRALIA); M. McCabe; J. Evans</i>
TS-32-2 (Ref. 744)	Estimation of Evaporation using the Surface Energy Balance System (SEBS) and Numerical Models <i>Ali Ershadi (University of NSW, AUSTRALIA); M.F. McCabe; J.P. Evans</i>
TS-32-3 (Ref. 296)	Evapotranspiration of Hailiutu River Basin in Erdos Plateau Using Remote Sensing Data <i>Xiaomei Jin (China University, CHINA); Q. Zhang</i>

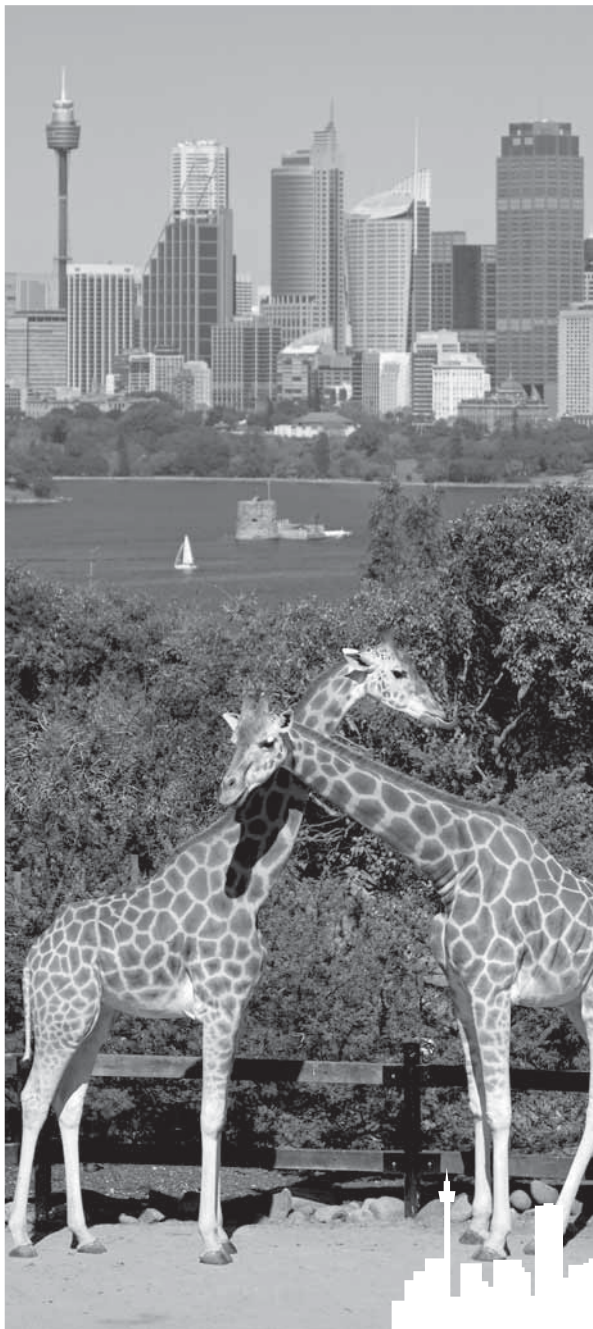
TS-32-4 (Ref. 773)	New Remote Sensing Based Actual ET Algorithm for an Australian Agro-ecosystem: SAM-ET <i>Mohsin Hafeez (Charles Sturt University, AUSTRALIA); Y. Chemin</i>
TS-32-5 (Ref. 687)	Application of Remote Sensing in Estimation of Hydrological Variables: A Review <i>Mahboubeh Ebrahimian (University Putra Malaysia, MALAYSIA); A. Ainuddin Nuruddin</i>
TS-33	9-0-4 ESA-MOST CHINA DRAGON 2 PROGRAM: 2. LAND APPLICATIONS
1600 – 1730	G04 (Ground Level) <i>Co-Chair Yves-Louis Desnos, European Space Agency, ITALY</i> <i>Co-Chair Zengyuan Li, Institute of Forest Resources Information Techniques, CHINA</i>
TS-33-1 (Ref. 592)	Forest Fire Scar Mapping using C and L Band Polarimetric SAR Data (Dragon) <i>Erxue Chen (Institute of Forest Resources Information Techniques, CHINA); Z. Li; Q. Feng; X. Tian; W. Hong; Y. Li; D. Goodenough; H. Chen</i>
TS-33-2 (Ref. 388)	Forest Canopy Moisture Content Monitoring Method Using HJ-1B IRS Data <i>Xianlin Qin (Research Institute of Forest Resource Information Techniques, CHINA); G. Deng; Z. Li</i>
TS-33-3 (Ref. 713)	Forest Change Mapping In Northeast China using SAR and InSAR Data <i>Feilong Ling (Fuzhou University, CHINA); Z. Li; C. Schmullius; X. Tian; E. Chen; J. Reiche; R. Leiterer; M. Santoro; Y. Huang</i>
TS-33-4 (Ref. 655)	Leaf Area Index Estimation in Fujian Province Based on Remotely Sensed Imagery <i>Guojin He (Centre for Earth Observation and Digital Earth, CHINA); Z. Zhang; X. Wang; H. Jiang</i>
TS-33-5 (Ref. 434)	Radiative Energy Release Quantification of Subsurface Coal Fires <i>Christoph Ehrler (German Aerospace Center, GERMANY); C. Fischer; J. Li; J. Wu</i>
TS-33-6 (Ref. 705)	The September 03, 2010 New Zealand Earthquake Mapped by ALOS PALSAR ScanSAR Interferometry: Preliminary Results <i>Qiming Zeng (Peking University, CHINA); C. Liang; Z. Li; J. Jiao; X. Cui</i>

TS-34	8-0-1 REMOTE SENSING USES IN PUBLIC HEALTH
1600 – 1730	G05 (Ground Level) <i>Co-Chair Jeffrey Luvall, NASA Marshall, AUSTRALIA</i> <i>Co-Chair Karl Benedict, University of New Mexico, USA</i>
TS-34-1 (Ref. 231)	Use of MODIS Satellite Images and an Atmospheric Dust Transport Model to Evaluate Juniperus Spp. Pollen Phenology and Dispersal <i>Jeffrey Luvall (NASA Marshall, USA); W. Sprigg; E. Levetin; A. Huete; S. Nickovic; G. Pejanovic; P. Van de Water; O. Myers; A. Budge; T. Crimmins</i>
TS-34-2 (Ref. 622)	Modelling and Observations of Biologically Active Solar UV Radiation: Towards Balancing between Health Risks and Benefits <i>Irina Melnikova (Russian State Hydrometeorological University, RUSSIA); I. Terenetskaya; T. Orlova</i>
TS-34-3 (Ref. 853)	Air Quality GEO Community of Practice and Interoperability Activities within GEO <i>Erin Robinson (Foundation For Earth Science, USA); S. Falke; R. Husar; T. Keating; L. Friedl; F. Lindsay; G. Foley</i>
TS-34-4 (Ref. 442)	Remote Sensing and Health Data Fusion: Methodological Challenges in Cholera Research <i>Ingo Simonis (OGC Europe, UK); M. van der Merwe; A. Vahed</i>
TS-34-5 (Ref. 527)	The Relevance of Space Observation Parameters in Human Health Impact Assessment and the Integration of New Emerging Sensor Technologies <i>Andreas Skouloudis (European Commission, ITALY); D. Rickerby</i>
TS-34-6 (Ref. 1207)	Medical Geology: Dust Exposure and Potential Health Risks in the Middle East <i>Mark Lyles (U.S. Naval War College, USA)</i>

TUESDAY 12 APRIL 2011

TS-35	3-E-2 LAND USE AND LAND COVER CHANGE
1600 – 1730	Location 1 (Level 1) <i>Chair Christian Witte, Qld Dept Environment and Resource Management, AUSTRALIA</i>
Display Only (Ref. 628)	Last La Niña Affects Agroecological Systems of Argentine Pampas <i>Marcelo Gandini (Faculty of Agronomy, ARGENTINA); C. Castellar</i>
TS-35-1 (Ref. 430)	Impact of Communal Land Use and Conservation on Woody Vegetation Structure in the Lowveld Savannas of South Africa—LiDAR results <i>Konrad Wessels (CSIR, SOUTH AFRICA); R. Mathieu; B. Erasmus; G. Asner; I. Smit; J. Van Aardt; R. Main; J. Fisher.</i>
TS-35-2 (Ref. 186)	Assessing Land-Use/Land-Cover Changes Resulting from Mining Activities in Katanga, Democratic Republic of Congo <i>Laetitia Dupin (Royal Belgian Institute for Natural Sciences, BELGIUM); F. Muhashi</i>
TS-35-3 (Ref. 428)	Use of MODIS Data to Analyze Spectral Properties of Land Cover Types for Improved Mapping of the Growing Season in Northern Fennoscandia <i>Stein Rune Karlsen (Northern Research Institute Tromsø, NORWAY); A. Tolvanen; K. Hagda; L. Eklundh; N. Polikarpova; O. Makarova; B. Hansen</i>
TS-35-4 (Ref. 384)	Seasonal Land Use / Land Cover Mapping: Accuracy Comparison of Various Band Combinations <i>Priyakant Sinha (University of New England, AUSTRALIA); L. Kumar; N. Reid</i>
TS-35-5 (Ref. 43)	Monitoring Land Use and Land Cover Changes in Coastal Environment of Medan, Sumatera using Object Based Classification Approach from Landsat Imagery <i>Togi Tampubolon (Universiti Sains Malaysia, MALAYSIA); K. Bin Abdullah; H. Lim</i>
TS-35-6 (Ref. 241)	Land Use and Vegetation Mapping of the Federal University of Technology, Akure, Nigeria <i>Aladesanmi Daniel Agbelade (Federal University of Technology, NIGERIA); S.O. Akindele</i>

TS-36	1-E-2 LAND SURFACE 2: CLIMATE AND TRENDS
1600 – 1730	Location 2 (Level 1) <i>Chair Peter Fearn, Curtin University, AUSTRALIA</i>
Display Only (Ref. 261)	Comparing the Impacts of Irrigation Pattern on the Near-Surface Climate <i>Xiufang Zhu (University of Maryland, USA); S. Liang; Y. Pan</i>
TS-36-1 (Ref. 373)	Bio-Climatic Modeling of the Potential Distribution of Coastal Wetlands in Response to Climate Change, Northeastern NSW Australia <i>Sumith Pathirana (Southern Cross University, AUSTRALIA); C. Akumu</i>
TS-36-2 (Ref. 161)	Radiative Forcing over the Conterminous United States due to Contemporary Land Cover Land Use Change and Sensitivity to Snow and Inter-Annual Albedo Variability <i>Christopher Barnes (US Geological Survey, USA); D. Roy</i>
TS-36-3 (Ref. 626)	Spatio-Temporal Analysis of Climate Change Parameters using Satellite Data for the Southeast Asian Region <i>Soo Chin Liew (National University of Singapore, SINGAPORE); A. Chia; L. Kwoh</i>
TS-36-4 (Ref. 857)	Convergence of Dynamic Vegetation Net Productivity Responses to Precipitation Variability from 10 Years of MODIS EVI <i>Guillermo Ponce-Campos (The University of Arizona, USA); A. Huete; S. Moran; C. Bresloff; T. Huxman; D. Bosch; J. Bradford; A. Buda; S. Gunter; M. McClaran; D. Peters; J. Sadler; M. Seyfried; P. Starks; D. Sutherland;</i>
TS-36-5 (Ref. 378)	Seasonal Variability of Climate and Vegetation in the Brazilian Savanna: Remote Sensing and Modeling Approaches <i>Jorge Alberto Bustamante (INPE, BRAZIL); C. Von Randow; E. Silva; S. Carvalho; I. Martins</i>
TS-36-6 (Ref. 987)	Real-time Monitoring of Vegetation Phenological Phases using Satellite Data <i>Xiaoyang Zhang (Earth Resources Technology Inc, USA); M. Goldberg</i>
TS-36-7 (Ref. 1131)	Climate Data Record Derived from Hyper Spectral Satellite Remote Sensors <i>Xu Liu (NASA Langley, USA)</i>
PS-3	SPACE POLICY PANEL AND DISCUSSION
1800 – 1900	Parkside Auditorium <i>Chair Kimberley Clayfield, CSIRO, AUSTRALIA</i>
	KEYNOTE SPEAKERS Michael Green, Department Innovation, Industry, Science and Research, AUSTRALIA Brent Smith, NOAA, USA



TUESDAY 12 APRIL 2011

WEDNESDAY 13 APRIL 2011

PROGRAM AT A GLANCE – WEDNESDAY 13 APRIL

		ORAL PRESENTATIONS				ELECTRONIC PRESENTATIONS								
ROOM		Parkside Auditorium	Parkside 110a	Parkside 110b	G04	G05	Location 1	Location 2	Location 3					
		Level 1	Level 1	Level 1	Ground Level	Ground Level	Level 1	Level 1	Level 1					
0830 – 0930	PS-4	GEO Forest Carbon												
0930 – 1030	PS-5	Climate and Water Panel												
1030 – 1100		MORNING TEA & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)												
1100 – 1230	TS-37	3-0-6	TS-38	2-0-1	TS-39	6-0-3	TS-40	1-0-4	TS-41	10-0-5	TS-42	5-E-2	TS-43	6-E-1
		Long-term Monitoring of Terrestrial Ecosystems Globally with Landsat, AVHRR, MODIS, SPOT and Other Sensors		Crop Identification, Forecasting and Stress Detection		Inland Water Bodies and Wetlands		Land Surface 1: Monitoring Carbon Dynamics and Emissions		Unmanned Aerial Systems 1		Mapping and Monitoring the Coastal Zone and Coastlines		Hydrologic Remote Sensing: Missions and Applications 3

LUNCH & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1) (Lunch at own arrangements)														
1230 – 1400	TS-44	3-0-7	TS-45	9-0-5	TS-46	5-0-3	TS-47	11-0-3	TS-48	10-0-6	TS-49	2-E-1	TS-50	4-E-3
1400 – 1530		Mapping and Monitoring Land Use, Land Cover and Ecosystems		Ground Observation Networks and Land Product Validation 1		Tropical Environments: Coral Reefs and Seagrass Meadows		Interoperability and Standards		Unmanned Aerial Systems ²		Agricultural Estimation and Prediction Using Remote Sensing		Remote Sensing of Natural and Man-made Disasters
TEA & COFFEE BREAK & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)														
1530 – 1600	TS-51	3-0-8	TS-52	9-0-6	TS-53	6-0-4	TS-54	1-0-5	TS-55	10-0-7	TS-56	3-E-3	TS-57	2-E-2
1600 – 1730		Mapping Forest Cover and Biomass		Ground Observation Networks and Land Product Validation 2		Inland Water Quality		Trends		Unmanned Aerial Systems ³		Forest and Vegetation Monitoring		Assessing Climate Impact and Water Usage
1900 – 2200	SYMPOSIUM DINNER CRUISE – DEPARTING FROM KING ST WHARF													

WEDNESDAY 13 APRIL 2011

WEDNESDAY 13 APRIL 2011

PS-4	GEO FOREST CARBON
0830 – 0930	Parkside Auditorium <i>Chair Per Erik Skrovseth, Chairman, ICORSE</i>
	KEYNOTE SPEAKERS Alex Held, CSIRO, AUSTRALIA Gary Richards, Dept Climate Change and Energy Efficiency, AUSTRALIA Ake Rosenqvist, soloEO, SWEDEN
PS-5	CLIMATE AND WATER PANEL
0930 – 1030	Parkside Auditorium <i>Chair Stephen Briggs, ESA, ITALY</i>
	KEYNOTE SPEAKERS Sue Barrell, Bureau of Meteorology, AUSTRALIA Stephen Briggs, ESA, ITALY Guo Huadong, CEODE-CAS, CHINA Masanori Homma, JAXA, JAPAN
TS-37	3-0-6 LONG-TERM MONITORING OF TERRESTRIAL ECOSYSTEMS GLOBALLY WITH LANDSAT, AVHRR, MODIS, SPOT AND OTHER SENSORS
1100 – 1230	Parkside Auditorium <i>Co-Chair Darrel Williams, Global Science and Technology Inc, USA</i> <i>Co-Chair Compton Tucker, NASA, USA</i>
TS-37-1 (Ref. 364)	Towards Global Monitoring of Forest Cover <i>Matthew Hansen (South Dakota State University, USA); P. Potapov; M. Broich; S. Turubanova; B. Adusei</i>
TS-37-2 (Ref. 693)	Long Term Earth Observation Data for Forest Monitoring and Carbon Tracking <i>Gary Richards (Dept Climate Change and Energy Efficiency, AUSTRALIA); S. Reddy</i>
TS-37-3 (Ref. 562)	Web-Enabled Landsat Data (WELD): A Consistent, Long-Term, Large-Area, 30m Data Record for The Terrestrial User Community <i>David Roy (South Dakota State University, USA); J. Ju; I. Kommadreddy</i>
TS-37-4 (Ref. 962)	A Low-cost, Smallsat Mission Concept to Augment Landsat Temporal Repeat Frequency <i>Darrel Williams (Global Science and Technology Inc, USA); C. Tucker; J. Masek; C. Jarvis; M. Brown</i>
TS-37-5 (Ref. 823)	The Global Forest Remote Sensing Survey <i>Adam Gerrand (FAO, ITALY); E. Lindquist; R. D'Annunzio; M. Wilkie</i>

TS-37-6 (Ref. 494)	30 Years of Advanced Very High Resolution Radiometer Global Normalized Difference Vegetation Index Data <i>Compton Tucker (NASA, USA); J. Pinzon; E. Vermote</i>
TS-38	2-0-1 CROP IDENTIFICATION, FORECASTING AND STRESS DETECTION
1100 – 1230	Parkside 110a <i>Co-Chair Lucy Randall, ABARE, AUSTRALIA</i> <i>Co-Chair Anna Pacheco, Agriculture and Agri-Food, CANADA</i>
TS-38-1 (Ref. 586)	A Review of the Use of Remote Sensing for Crop Forecasting <i>Lucy Randall (ABARE, AUSTRALIA); S. Bruce; K. Lawson</i>
TS-38-2 (Ref. 945)	Mapping Crop Residue Cover Over Regional Agricultural Landscapes In Canada <i>Anna Pacheco (Remote Sensing Research Specialist Agriculture and Agri-Food, CANADA)</i>
TS-38-3 (Ref. 710)	Evaluation of Ground Hyperspectral Remote Sensing for Precise Satellite Imagery Based Land Cover Classification and Forecasting of Rice Grain Production <i>Muhammad Shahzad Sarfraz (Asian Institute of Technology, THAILAND); M. Arshad; N.K. Tripathi</i>
TS-38-4 (Ref. 314)	The System for Early Natural Disasters Monitoring in Agriculture <i>Katarzyna Dabrowska – Zielinska (Institute of Geodesy and Cartography, POLAND); M. Budzynska; W. Kowalik</i>
TS-38-5 (Ref. 617)	Climate Variability and Rural Livelihood: Mitigating the impact of Soil Salinity in a Changing Climate in Sri Lanka <i>Janaka Gamage (UNDP, SRI LANKA); D. Sirisena</i>
TS-38-6 (Ref. 785)	How TerraSAR-X Quadpol Data Can Help Describing Crop Canopies: A Comparison to RapidEye Multi-Spectral Vegetation Indices <i>Steffen Gebhardt (Wuerzburg University, German Aerospace Center, GERMANY); A. Roth; C. Kuenzer; T. Wehrmann</i>
TS-38-7 (Ref. 615)	Crop Classification using SAR Data in the North China Plain <i>Kun Jia (IRSA, CAS, CHINA); B. Wu; Q. Li; Y. Tian</i>

TS-39	6-O-3 INLAND WATER BODIES AND WETLANDS
1100 – 1230	Parkside 110b <i>Co-Chair Janet Anstee, CSIRO, AUSTRALIA</i> <i>Co-Chair Soo Chin Liew, National University of Singapore, SINGAPORE</i>
TS-39-1 (Ref. 345)	Management of Groundwater Reservoir in El Menia Governorate Aquifer System using Modeling and Remote Sensing Technique (Upper Egypt) <i>Abdalla Fayed (National Authority for Remote Sensing and Space Sciences, EGYPT); A. A. Hassan; A.A. Belal</i>
TS-39-2 (Ref. 33)	Unique Phenomena in Lake Baikal, Russia Imaged and Studied with SAR and Multi-Sensor Imagery <i>Andrei Ivanov (Russian Academy of Sciences, RUSSIA)</i>
TS-39-3 (Ref. 662)	Dynamics of Dongting Lake, China—A Yangtze River Floodpath Lake <i>Claudia Kuenzer (German Remote Sensing Data Centre, GERMANY); J. Li; B. Yang; S. Dech</i>
TS-39-4 (Ref. 453)	Wetland Monitoring with Polarimetric SAR Change Detection Methods <i>Andreas Schmitt (German Aerospace Center, GERMANY); B. Brisco; S. Kaya; A. Roth; A. Maller</i>
TS-39-5 (Ref. 497)	Microwave Remote Sensing of Palm Swamp Distribution and Flooding Status over Sub-Regions in the Upper Amazon Basin <i>Erika Podest (Jet Propulsion Laboratory, USA); N. Pinto; R. Schroeder; K. McDonald; R. Zimmermann; V. Horna.</i>
TS-40	1-O-4 LAND SURFACE 1: MONITORING CARBON DYNAMICS AND EMISSIONS
1100 – 1230	G04 (Ground Level) <i>Co-Chair Shanti Reddy, Dept Climate Change and Energy Efficiency, AUSTRALIA</i> <i>Co-Chair Douglas Muchoney, US Geological Survey, USA</i>
TS-40-1 (Ref. 336)	Mapping Land Use Changes for the Kyoto Reporting <i>Birger Pedersen (University of Aarhus, DENMARK)</i>
TS-40-2 (Ref. 344)	Remote Sensing Based Estimations of Potential Terrestrial Carbon Stocks In West Africa <i>Miriam Machwitz (University of Wuerzburg, GERMANY); M. Wegmann; C. Conrad; S. Dech</i>
TS-40-3 (Ref. 165)	A Multi-Stage Inventory Scheme for Redd Inventories in Tropical Countries <i>Steffen Kuntz (Infoterra GmbH, GERMANY); F. von Poncet; T. Baldauf; D. Plugge; B. Kenter; M. Köhl</i>

TS-40-4 (Ref. 280)	Quantifying the Impacts of Land Use Changes on Surface Energy Budget and Surface Climate: Afforestation And Irrigation In China <i>Shunlin Liang (University Of Maryland, USA)</i>
TS-40-5 (Ref. 425)	Potential Development For Absorption Of Carbon And Reduced Air Pollution Through Urban Forest Implementation Using Remote Sensing Method In Banjarbaru, South Kalimantan, Indonesia <i>Thomas Akuarin Tanjung (International Forestry Students Association, INDONESIA); Y. Bahtimi; A. Jauhari; B. Raharjo</i>
TS-40-6 (Ref. 509)	Satellite Remote Sensing For Geological Carbon Sequestration Field Monitoring <i>Rattanasuda Cholathat (UNSW, AUSTRALIA); X. Li; L. Ge</i>
TS-41	10-O-5 UNMANNED AERIAL SYSTEMS 1
1100 – 1230	G05 (Ground Level) <i>Co-Chair Randy Albertson, NASA, USA</i> <i>Co-Chair Bruce Doddridge, NASA, USA</i>
TS-41-1 (Ref. 473)	On Using NASA's Ikhana and Global Hawk to Understand Atmosphere-Ocean Interactions <i>Cameron McNaughton (University Of Hawaii, USA); T. Mace</i>
TS-41-2 (Ref. 206)	Remote Sensing From 19 Kilometers, The 2010 Campaigns: Lessons Learned and Future Plans For the NASA Global Hawk Uninhabited Aerial System <i>Donald Sullivan (NASA, USA); D. Fratello</i>
TS-41-3 (Ref. 517)	NASA Global Hawk: Project Overview and Future Plans <i>Chris Naftel (NASA Dryden Flight Research Center, USA).</i>
TS-41-4 (Ref. 858)	Remote Sensing of the Arctic with Unmanned Aircraft: Helping Scientists Achieve their Goals <i>Brenda Mulac (NASA, USA); R. Storvold; B. Weatherhead</i>
TS-41-5 (Ref. 616)	NASA Global Hawk: Flight Planning and Operations for Science Missions <i>Philip Hall (NASA, USA)</i>

TS-42	5-E-2 MAPPING AND MONITORING THE COASTAL ZONE AND COASTLINES
1100 – 1230	Location 1 (Level 1) <i>Chair Alison Specht, University of Queensland, AUSTRALIA</i>
Display Only (Ref. 1042)	Mapping Coastal Ecosystems of an Offshore Landfill Island Using WorldView-2 High Resolution Satellite Imagery <i>Leong Keong Kwoh (Centre for Remote Imaging Sensing and Processing, SINGAPORE); P. Chen; S C. Liew; R. Lim</i>
TS-42-1 (Ref. 308)	Detection of Shoreline Changes at Kuala Terengganu, Malaysia from Multi-Temporal Satellite Sensor Imagery <i>Aidy M Muslim (University Malaysia Terengganu, MALAYSIA); M.K. Ismail; I. Khalil</i>
TS-42-2 (Ref. 895)	How will Marine Fish Habitats in Coastal Queensland Respond to Increasing Sea Levels? <i>David Sully (Fisheries Queensland, AUSTRALIA); J. Beumer; D. Couchman</i>
TS-42-3 (Ref. 621)	Coastal Zone Monitoring Using High Resolution X-band SAR Sensor of TerraSAR-X <i>Xiaoming Li (German Aerospace Center, GERMANY); S. Lehner; A. Pleskachevsky; S. Brusch</i>
TS-42-4 (Ref. 790)	Anthropogenic Pressures and Modifications In Coastal Waters of Bahia, Brazil <i>Rafael Carvalho (Federal University of Bahia, BRAZIL)</i>
TS-42-5 (Ref. 308)	Evaluation of Soft Classification Algorithm for Sub-Pixel Mapping of the Shoreline <i>Aidy M Muslim (University Malaysia Terengganu, MALAYSIA); N. Razman; I. Khalil</i>
TS-42-6 (Ref. 142)	Using GIS and Remote Sensing to Map Coastline Changes of Wedam-Alsahel Area, Batinah, Oman between 1998 and 2008 <i>Lofty Kamal Abdou Azaz (Geography Department, OMAN)</i>
TS-42-7 (Ref. 197)	Remote Sensing of Kelvin Wave Propagation into the Arabian Sea and its Influence on Coastal Upwelling along the Southwest Coast of India <i>Ajith Joseph Kochuparampil (Nansen Environmental Research Centre (India), INDIA); C. Jayaram; A.N. Balchand</i>
TS-42-8 (Ref. 224)	GIS and Remote Sensing Application to Spatially Manage Sand Dunes' Landscape In the Coastal Zone: A Case Study In Parangtritis Beach, D.I. Yogyakarta, Indonesia <i>Fakhrudin Mustofa (National Coordinating Agency For Surveys And Mapping (Bakosurtanal), INDONESIA); S. Eka Wati; A. Poniman</i>

TS-42-9 (Ref. 846)	Retreating Sundarban Coastline of the Bengal Delta: A Spatiotemporal Trend Analysis using Landsat Imagery <i>Abdullah Rahman (Indiana University, USA); D. Dragoni</i>
TS-43	6-E-1 HYDROLOGIC REMOTE SENSING: MISSIONS AND APPLICATIONS 3
1100 – 1230	Location 2 (Level 1) <i>Chair Albert Van Dijk, CSIRO, AUSTRALIA</i>
Display Only (Ref. 152)	Investigation of Shoreline and Morphological Changes, and Simulation of the Circulation in the Hai Phong Estuary, Vietnam <i>Cuong Nguyen (Tokyo Metropolitan Univeristy, JAPAN); U. Dinh; U. Motohiko</i>
TS-43-1 (Ref. 484)	Eleven Years Of Floods and Large Reservoir Dynamics across Australia Observed by the MODIS Sensor <i>Juan Pablo Guerschman (CSIRO, AUSTRALIA); G. Warren; G. Byrne; L. Lymburner; N. Mueller; A. Van Dijk</i>
TS-43-2 (Ref. 535)	Object-Based Mapping of Gully Extent and Volume from LiDAR Data In North Queensland, Australia <i>Kasper Johansen (University of Queensland, AUSTRALIA); D. Tindall; S. Phinn</i>
TS-43-3 (Ref. 663)	Hypsometric Properties of the Hydrolic Basins Located on Western Part of Nafz, Turkey <i>Gulcan Sarp (Middle East Technical University, TURKEY); V. Toprak; H. Duzgun</i>
TS-43-4 (Ref. 709)	The Use of WorldView-2, 8-Band Satellite Images for Monitoring Groundwater-Dependent Ecosystems <i>Narelle Irvine (University of Technology, AUSTRALIA); A. Huete</i>
TS-43-5 (Ref. 333)	The Spatio-Temporal Characterization Extraction on the Vegetation Ecological Water Requirement Based on Remote Sensing Techniques <i>Chuansheng Liu (Center for Earth Observation and Digital Earth, CHINA); W. Zhang</i>
TS-43-6 (Ref. 520)	Assimilation of MODIS Land Surface Temperature in a Soil-Vegetation-Atmosphere-Transfer Model <i>Marc Ridler (University Of Copenhagen, DENMARK); I. Sandholt; H. Madsen.</i>
TS-43-7 (Ref. 610)	The Diurnal Transport Law of Water Vapor Movement in the Vadose Zone and its Simulation Analysis <i>Xia Li (Chang'an University, CHINA); Z.M. Ma.</i>
TS-43-8 (Ref. 643)	Assessment of Morphological Changes and Vulnerability of River Bank Erosion Alongside The River Jamuna using Remote Sensing <i>Kabir Uddin (International Centre for Integrated Mountain Development, NEPAL)</i>

TS-44	3-0-7 MAPPING AND MONITORING LAND USE, LAND COVER AND ECOSYSTEMS
1400 – 1530	Parkside Auditorium <i>Co-Chair Matthew Hansen, South Dakota State University, USA</i> <i>Co-Chair Medhavy Thankappan, Geoscience Australia, AUSTRALIA</i>
TS-44-1 (Ref. 848)	Assessment of Mountainous Ecosystems In Central Asia by using Remote Sensing Based Vegetation Cover Fractions <i>Doris Klein (University of Wuerzburg, GERMANY); S. Asam; U. Gessner; S. Dech</i>
TS-44-2 (Ref. 601)	Pixel-Based Image Classification to Map Vegetation Communities using SPOT 5 and Landsat TM In a Northern Territory Tropical Savanna, Australia <i>Donna Lewis (NT Government, AUSTRALIA); S. Phinn; K. Pfitzner</i>
TS-44-3 (Ref. 549)	Study of Land Use and Land Cover Status of Bahir Dar Blue Nile Millennium Park, Ethiopia <i>Getachew Tesfaye Ayehu (Bahir Dar University, ETHIOPIA)</i>
TS-44-4 (Ref. 769)	An Analysis of Decadal Land Change in Latin America and the Caribbean Mapped from 250-M MODIS Data <i>Matthew Clark (Sonoma State University, USA); M. Aide</i>
TS-44-5 (Ref. 16)	Biodiversity Conservation and Natural Resource Management in a Nature Protection Area of Biodiversity Hotspot (Western Ghats: Research approach to understand the anthropogenic interactions on ecosystem <i>Sunil Nautiyal (Centre For Ecological Economics And Natural Resources, INDIA)</i>
TS-45	9-0-5 GROUND OBSERVATION NETWORKS AND LAND PRODUCT VALIDATION 1
1400 – 1530	Parkside 110a <i>Co-Chair Alfredo Huete, University of Technology Sydney, AUSTRALIA</i> <i>Co-Chair Joanne Nightingale, Sigma Space Corporation, USA</i>
TS-45-1 (Ref. 230)	Assessing Satellite-Derived Land Product Quality for Earth System Science and Applications: Overview of CEOS Land Product Validation Sub-Group Activities <i>Joanne Nightingale (Sigma Space Corporation, USA); G. Schaepman; J. Nickeson</i>
TS-45-2 (Ref. 691)	Phenological Eyes Network (PEN) and Ground-truthing Activity for Satellite Remote Sensing <i>Shin Nagai (Japan Agency for Marine Earth Science and Technology, JAPAN); N. Nishida NASAhara; S. Tsuchida; T. Motohka; H. Muraoka</i>

<p>TS-45-3 (Ref. 676)</p>	<p>Enviro-Net: A Network of Ground-based Sensors for Tropical Dry Forests in the Americas <i>G. Arturo Sanchez-Azofeifa (University of Alberta, CANADA); G. Pastorella; M. Nascimento</i></p>
<p>TS-45-4 (Ref. 217)</p>	<p>Evaluation of the Land Surface Temperature Product for the GOES-R Mission <i>Yunyue Yu (National Oceanic and Atmospheric Administration, USA); M. Chen; H. Xu; J. Privetter</i></p>
<p>TS-45-5 (Ref. 771)</p>	<p>Evaluation of MODIS Vegetation Index Products using the AERONET-Based Surface Reflectance Validation Network <i>Alfredo Huete (University of Technology Sydney, AUSTRALIA); Z. Jiang; Y. Wang; A. Lyapustin</i></p>
<p>TS-45-6 (Ref. 1119)</p>	<p>FAPAR Estimates at Various Scales <i>Marie Weiss (National Institute for Agricultural Research, FRANCE); F. Baret</i></p>
<p>TS-46</p>	<p>5-0-3 TROPICAL ENVIRONMENTS: CORAL REEFS AND SEAGRASS MEADOWS</p>
<p>1400 – 1530</p>	<p>Parkside 110b <i>Co-Chair Vittorio Brando, CSIRO, AUSTRALIA</i> <i>Co-Chair Cecile Dupouy, IRD, NEW CALEDONIA</i></p>
<p>TS-46-1 (Ref. 880)</p>	<p>Exploring the Utility of the Broadband Multispectral Sensor WorldView-2 for Investigation of Nearshore Coastal Environments <i>Richard Zimmerman (Old Dominion University, USA); V. Hill; P. Bisset; P. Kohler</i></p>
<p>TS-46-2 (Ref. 379)</p>	<p>Long Term Land Cover and Seagrass Mapping using Landsat Sensors from 1972 to 2010 in the Coastal Environment of South East Queensland, Australia. <i>Mitchell Lyons (University of Queensland, AUSTRALIA); S. Phinn; C. Roelfsema</i></p>
<p>TS-46-3 (Ref. 289)</p>	<p>Mapping Large Coral Reef Systems in Fiji at Geomorphic and Benthic Community Spatial Scales from Object Based Analysis of High Spatial Resolution Imagery <i>Chris Roelfsema (University of Queensland, AUSTRALIA); S. Phinn; S. Jupiter; J. Comley</i></p>
<p>TS-46-4 (Ref. 188)</p>	<p>Mapping Accuracy Varies with Spatial Scale and Homogeneity of Coral Reef Benthic Habitats <i>Maria Zann (University of Queensland, AUSTRALIA); S. Phinn; C. Roelfsema</i></p>
<p>TS-46-5 (Ref. 790)</p>	<p>Satellite Monitoring of Coral Reefs Of Bahia, Southeastern Atlantic <i>Rafael Carvalho (Federal University of Bahia, BRAZIL); R. Kikuchi</i></p>
<p>TS-46-6 (Ref. 410)</p>	<p>Role of Remote Sensing and GIS application in Marine Biodiversity Management in the Emirate of Abu Dhabi, United Arab Emirates <i>Rajan Anbiah (Environment Agency, Abu Dhabi, UNITED ARAB EMIRATES); H. Das; Y. Othman; T.Z. Al Absessalaam</i></p>

WEDNESDAY 13 APRIL 2011

TS-47	11-O-3 INTEROPERABILITY AND STANDARDS
1400 – 1530	G04 (Ground Level) <i>Co-Chair Jay Pearlman, IEEE, USA</i> <i>Co-Chair George Percivall, Open Geospatial Consortium, USA</i>
TS-47-1 (Ref. 852)	Key Interoperability Standards for Earth Science Research and Applications <i>Karl Benedict (University of New Mexico, USA)</i>
TS-47-2 (Ref. 738)	Continental Scale Validation Of MODIS-Based and LEDAPS Operational Landsat ETM+ Atmospheric Correction Methods <i>Junchang Ju (South Dakota State University, USA); E. Vermote; D. Roy; J. Masek</i>
TS-47-3 (Ref. 648)	How GEOSS Facilitates Interoperability through Identifying and Documenting Standards and Promoting their Adoption within User Communities <i>Siri Jodha Khalsa (University of Colorado, USA); S. Browdy; D. Arctur</i>
TS-47-4 (Ref. 310)	Interoperability of Imagery for Land-use Change: Examples from Opticla and RADAR Data <i>Kim Lowell (CRC Spatial Information, AUSTRALIA); A. Mitchell; I. Tapley; A. Milne; P. Cacetta; E. Lehmann; Z.Zhou; A. Held</i>
TS-47-5 (Ref. 486)	Successful Implementations for Societal Benefit Areas using GEOSS Interoperability Arrangements <i>George Percivall (Open Geospatial Consortium, USA); J. Pearlman</i>
TS-47-6 (Ref. 385)	The Role of Hyperspectral Metadata in Hyperspectral Data Exchange and Warehousing <i>Simon Jones (RMIT University, AUSTRALIA); B. Rasaiah T. Malthus; C. Bellman</i>
TS-48	10-O-6 UNMANNED AERIAL SYSTEMS 2
1400 – 1530	G05 (Ground Level) <i>Co-Chair Terry Cocks, Hyvista Corp, AUSTRALIA</i> <i>Co-Chair Jorge Andres-Diaz, University of Costa Rica, COSTA RICA</i>
TS-48-1 (Ref. 707)	Unmanned Aerial Vehicle (UAV) Remote Sensing for Hyperspatial Terrain Mapping of Antarctic Moss Beds based on Structure from Motion (SfM) Point Clouds <i>Arko Lucieer (University of Tasmania, AUSTRALIA); S. Robinson; D. Turner</i>
TS-48-2 (Ref. 640)	Development of an Unmanned Aerial Vehicle (UAV) for Hyper Resolution Vineyard Mapping based on Visible, Multispectral and Thermal Imagery <i>Darren Turner (University of Tasmania, AUSTRALIA); A. Lucieer</i>

TS-48-3 (Ref. 673)	Utilization of Small In-Situ Airborne Platforms, Lightweight Sensors and Remote Sensing for Volcanic Plume Analysis <i>Jorge Andres Diaz (Universidad De Costa Rica, COSTA RICA); D. Pieri; G. Bland; M. Fladeland; E. Gore; R. Arkin; C.Soto</i>
TS-48-4 (Ref. 859)	Use of the Aerosonde Unmanned Aircraft System in Support of Atmospheric and Sea Ice Research in the Antarctic <i>Daniel Fowler (Aerosonde, AUSTRALIA); J. Cassano; N. Logan; P. Kernebone; P. Hermann; D. Hobby</i>
TS-48-5 (Ref. 393)	Vision-based Shadow-aided Tree Crown Detection and Classification Algorithm using Imagery from an Unmanned Airborne Vehicle <i>Calvin Kai-Yuan Hung (Australian Centre for Field Robotics, AUSTRALIA); M. Bryson; S. Sukkarieh</i>
TS-49	2-E-1 AGRICULTURAL ESTIMATION AND PREDICTION USING REMOTE SENSING
1400 – 1530	Location 1 (Level 1) <i>Chair Graeme Behn, WA Dept Environment and Conservation, AUSTRALIA</i>
TS-49-1 (Ref. 260)	Satellite Supported Estimates of Human Rate of NPP Carbon Use on Land: Challenges Ahead <i>Marc Imhoff (NASA Goddard, USA); L. Bounoua; P. Zhang; R. Wolfe</i>
TS-49-2 (Ref. 724)	Estimation of Rice Fresh Biomass using ALOS Images <i>Roshanak Darvishzadeh (Shahid Beheshti University, IRAN); A. Matkan; N. Eskandari</i>
TS-49-3 (Ref. 724)	Predicting Rice Canopy Chlorophyll Content using ALOS AVNIR <i>Roshanak Darvishzadeh (Shahid Beheshti University, IRAN); R. Jafari Sirizi; A. Shakiba; A. Hossainiasl</i>
TS-49-4 (Ref. 475)	Using Hyperspectral Remote Sensing as a Tool for Early Detection of Leaf Rust in Blueberries <i>Vikram Ahlawat (University of New England, AUSTRALIA); O. Jhorar; L. Kumar; D. Backhouse</i>
TS-49-5 (Ref. 776)	Evaluation of Aerodynamic Resistance Estimated using MODIS Data <i>Adrian Chappell (CSIRO, AUSTRALIA); J.P. Guerschman</i>
TS-49-6 (Ref. 407)	Biomass Estimation of a Small Scale Pasture with Experience Models and MODIS Data in Hulunber Meadow Grassland, Northeast China <i>Qingwei Duan (Chiese Academy Of Agricultural Sciences, CHINA); X. Xin; G. Yang; B. Chen; H. Zhang; G. Li; Y. Yan; X. Wang; B. Zhang</i>

WEDNESDAY 13 APRIL 2011

TS-50	4-E-3 REMOTE SENSING OF NATURAL AND MAN-MADE DISASTERS
1400 – 1530	Location 2 (Level 1) <i>Chair Norman Mueller, Geoscience Australia, AUSTRALIA</i>
TS-50-1 (Ref. 190)	Integrating Multiple Space and Ground Sensors to Track Volcanic Activity <i>Steve Chien (California Institute of Technology, USA); A. Davies; J. Doubleday; D. Tran; S. Jones; E. Kjartansson; K. Vogfjord; M. Gudmundsson; T. Thordarson; D. Mandl</i>
TS-50-2 (Ref. 477)	Use of Radar and Optical Data to Support Emergency and Wildlife Management in Case of an Oil Spill in Canada's Northern Coastal Ecosystems: Case Study of the James Bay <i>Anne-Marie Demers (Environment Canada, CANADA); J. Duffe; S. Laforest</i>
TS-50-3 (Ref. 183)	A Novel Sinergy between Remote Sensing and GIS for Oil Spill Detection on Satellite Imagery <i>Giovanni Laneve (University of Rome, ITALY); G. Santilli; P. Marzialetti</i>
TS-50-4 (Ref. 698)	Morphotectonic Properties of Yenicaga Basin Area in Turkey <i>Resat Gecen (Middle East Technical University, TURKEY); G. Sarp; V. Toprak; S. Duzgun</i>
TS-50-5 (Ref. 156)	Fly -Through over Jan 2002 Meuse River Flood <i>Khaled Dhedah (University of Al-Jabal Al-Gharbi-Gharian, LIBYA)</i>
TS-50-6 (Ref. 524)	Monitoring TURRIALBA Volcano's Plume using Small Airborne Sensors and Satellite Imagery <i>Carlomagno Soto-Castro (Organization For Tropical Studies, COSTA RICA); J. Diaz; D. Pieri; G. Bland; T. Miles; E. Mendez; D.Castillo</i>
TS-50-7 (Ref. 720)	Santa Catarina Coastal River Basins Flood of November 2008 Mapped By RADARSAT-2 Images <i>Thobias Furlanetti (Government, BRAZIL); F.M. Rudorff; F.R.B. Victoria</i>
TS-51	3-O-8 MAPPING FOREST COVER AND BIOMASS
1600 – 1730	Parkside Auditorium <i>Co-Chair Anthea Mitchell, University of NSW, AUSTRALIA</i> <i>Co-Chair Jan Van Aardt, Rochester Institute of Technology, USA</i>
TS-51-1 (Ref. 596)	Pan-European Forest Type Map at 25m Resolution using Data Fusion of Multispectral and Multitemporal Data <i>Pieter Kempeneers (Joint Research Centre, ITALY); F. Sedano; P. Strob; J. San-Miguel-Ayanz</i>

TS-51-2 (Ref. 411)	Tropical Forest Mapping Using Single Date TerraSAR-X High Resolution Spotlight Data <i>Ralf Knuth (University of Jena Friedrich Schiller, GERMANY); N. Richter; R. Eckardt; C. Schmullius</i>
TS-51-3 (Ref. 600)	Effects of Topography, Soil and Disturbance History on Spatial Treefall Pattern at Two Tropical Forests <i>Elena Lobo (University of Illinois, PANAMA); C. Soto; C. Rossi</i>
TS-51-4 (Ref. 402)	Forest Discrimination Analysis of Combined Landsat and ALOS-PALSAR Data <i>Eric Lehmann (CSIRO, AUSTRALIA); P. Caccetta; Z.S. Zhou; A. Mitchell; I. Tapley; A. Milne; A. Held; K. Lowell; S. McNeill</i>
TS-51-5 (Ref. 148)	High Density Biomass Estimation: Testing the Utility of Vegetation Indices and the Random Forest Regression Algorithm <i>Onesimo Mutanga (University of KwaZulu, SOUTH AFRICA); E. Adam</i>
TS-51-6 (Ref. 396)	An Attempt to Measure Forest Biomass using ALOS-Palsar <i>Masatoshi Kamei (RESTEC, JAPAN); T. Ogawa; Y. Wada; Y. Haruyama</i>
TS-52	9-0-6 GROUND OBSERVATION NETWORKS AND LAND PRODUCT VALIDATION 2
1600 – 1730	Parkside 110a <i>Co-Chair Alfredo Huete, University of Technology Sydney, AUSTRALIA</i> <i>Co-Chair Joanne Nightingale, Sigma Space Corporation, USA</i>
TS-52-1 (Ref. 800)	Land Validation Using UAV: Detecting Multi-Angular Response of Forest Canopy <i>Koji Kajiwara (Center for Environmental Remote Sensing, JAPAN); Y. Honda; R. Sharma; A. Ono; Y. Ono; D. Rostand</i>
TS-52-2 (Ref. 277)	The CEOS Cal/Val Portal: A New Instrument for Cal/Val Data Distribution and Scientific Collaboration <i>Alessandro Burini (ESA, ITALY); G. Chander; N. Fox; P. Goryl</i>
TS-52-3 (Ref. 715)	PHAVEOS: the PHenology and Vegetation EO Service <i>Thomas Lankester (Astrium Ltd, UK); J. Dash; F. Baret; S. Hubbard</i>
TS-52-4 (Ref. 676)	Enviro-Net: Understanding Phenology Cues from Tropical Dry Forests Across the Americas <i>Arturo Sanchez-Azofeifa (University of Alberta, CANADA); G. Fernandes; M. Espirito Santo; M. Quesada; J. Calvo</i>

TS-52-5 (Ref. 436)	Validation of Satellite Retrieved Land Surface Temperature with Station Measurements <i>Hui Xu (IMSG Inc, USA); Y. Yu; F. Gottsche</i>
TS-52-6 (Ref. 1007)	The International Soil Moisture Network: An Observational Network for Soil Moisture Product Validation <i>Alexander Gruber (Vienna University of Technology, AUSTRIA); W. Dorigo, P. van Oevelen; W. Wagner; M. Drusch; S. Mecklenburg; A. Robock; T. Jackson</i>
TS-53	6-O-4 INLAND WATER QUALITY
1600 – 1730	Parkside 110b <i>Co-Chair Martin Wegmann, University Of Wuerzburg, GERMANY</i> <i>Co-Chair Vittorio Brando, CSIRO, AUSTRALIA</i>
TS-53-1 (Ref. 351)	Inland Water Quality using WorldView-2: Improvements Due to Enhanced Spectral and Spatial Features <i>Arnold Dekker (CSIRO, AUSTRALIA); T. Malthus; N. Cherukuru; Y. Park; J. Anstee; E. Botha; N. Egli; B. Sherman; R. Devilla; L. Clementson</i>
TS-53-2 (Ref. 762)	Mapping Seasonal Inland Water Quality Variations from WorldView-2 Imagery <i>Janet Anstee (CSIRO, AUSTRALIA); N. Cheruruku; T. Malthus; A. Dekker; V. Brando</i>
TS-53-3 (Ref. 626)	Mapping Water Quality of Coastal and Inland Waters using High Resolution WorldView-2 Satellite Imagery <i>Soo Chin Liew (National University of Singapore, SINGAPORE); B. Saengtuksin; L. Kwoh</i>
TS-53-4 (Ref. 957)	The Particle Swarm Optimisation for Spectral Matching Applied to Inland Water Quality Remote Sensing <i>Glenn Campbell (University of Southern Queensland, AUSTRALIA); S. Phinn; A. Dekker; V. Brando</i>
TS-53-5 (Ref. 301)	Spatial and Temporal Variability of Light Attenuation in Amazonian Waters <i>Maycira Costa (Univeristy of Victoria, CANADA); K. Telmer; E. Novo</i>
TS-53-6 (Ref. 291)	Monitoring the Surface Water Quality of Liangzi Lake Based On HJ-1 Data <i>Juan Du (Wuhan University, CHINA); L.M. Liu</i>
TS-53-7 (Ref. 726)	Strategic Partnership for Improved Basin-Scale Water Quality Parameter Retrieval from Optical Signatures – Waters <i>Anu Reinart (Tartu Observatory, ESTONIA); C. Brockmann; S. Kratzer; P. Philpson; S. Peters; T. Pyhalhti</i>

TS-54	1-0-5 TRENDS
1600 – 1730	G04 (Ground Level) <i>Co-Chair Agnes Lane, Bureau of Meteorology, AUSTRALIA</i> <i>Co-Chair Brent Smith, NOAA, USA</i>
TS-54-1 (Ref. 366)	A Long Term Merged Global Ozone Data Set <i>Richard McPeters (NASA, USA); R. Stolarski; S. Frith</i>
TS-54-2 (Ref. 954)	Developing Climate Data Records and Essential Climate Variables from Landsat Data <i>Douglas Muchoney (US Geological Survey, USA); J. Dwyer; T. Dinardo</i>
TS-54-3 (Ref. 816)	Land and Ocean Temperature Variations and Trends and their Relations to Precipitation Changes <i>Robert Adler (University of Maryland, USA); G. Gu</i>
TS-54-4 (Ref. 641)	Deep Ocean Warming Assessed from Altimeters, GRACE, In-Situ Measurements, and a Non-Boussinesq OGCM <i>Y. Tony Song (Jet Propulsion Laboratory, USA); F. Colberg</i>
TS-54-5 (Ref. 1071)	Trends in Satellite Observations of the Great Lakes <i>Steven Ackerman (University of Wisconsin-Madison, USA); A. Heidinger; B. Maddux</i>
TS-54-6 (Ref. 492)	Decadal Measurements of Cloud Properties Using the MISR Instrument on the Terra Satellite and Implications for Equilibrium Climate Change <i>Roger Davies (University of Auckland, NEW ZEALAND); A. Prasad</i>
TS-55	10-0-7 UNMANNED AERIAL SYSTEMS 3
1600 – 1730	G05 (Ground Level) <i>Co-Chair Vince Ambrosia, California State University, USA</i> <i>Co-Chair Salah Sukkarieh, University of Sydney, AUSTRALIA</i>
TS-55-1 (Ref. 144)	Unmanned Airborne Systems Supporting Disaster Observations: Near Real-Time Data Needs <i>Vincent Ambrosia (California State University, USA); S. Buechel; S. Wegener; D. Sullivan; F. Enomoto; E. Hinkley; T. Zajkowski</i>
TS-55-2 (Ref. 293)	UAS Architecture for Forest Fire Remote Sensing <i>Cristina Barrado (Technical University of Catalonia, SPAIN); P. Royo; E. Pastor; M. Sole; J. Lema; J. Lopez</i>
TS-55-3 (Ref. 854)	Evaluating the Effectiveness of Small Unmanned Aerial Systems for Fire Support <i>Thomas Zajkowski (US Forest Service, USA); H. Fisk; B. Quayle; E. Hinkley</i>

TS-55-4 (Ref. 579)	Understanding the Costs and Benefits of Real-Time Data for Fire Monitoring <i>Steve Wegener (Bay Area Environmental Research Institute, USA); V. Ambrosia; T. Zajkowski; D. Sullivan</i>
TS-55-5 (Ref. 81)	Remote Sensing in the Arctic using Autonomous Sensors Developed under NASA's Airborne Science Program for IPY <i>Susan Schoenung (Bay Area Environmental Research Institute, USA); R. Albertson</i>
TS-56	3-E-3 FOREST AND VEGETATION MONITORING
1600 – 1730	Location 1 (Level 1) <i>Chair Kasper Johansen, University of Queensland, AUSTRALIA</i>
TS-56-1 (Ref. 458)	Initial Investigation of an 8-Band Airborne Sensor For Plantation Forest Assessments <i>Jan Van Aardt (Rochester Institute of Technology, USA); M. Norris-Rogers</i>
TS-56-2 (Ref. 856)	Monitoring the Destruction of Natural Sal Forest in Modhupur of Bangladesh by Temporal Landsat Imagery <i>Hasan Muhammad Abdullah (Ecoclimbd & Gifu University, JAPAN); M.G. Mahboob; M.R. Banu</i>
TS-56-3 (Ref. 330)	Detection of Deforestation Within the Rio Verde Drainage, Sub-Basin of the Amazon, Using Multi-Temporal Analysis of Landsat Thematic Mapper and Its Influence on the Hydrological Aspects of that Region <i>Megumi Maruyama (Nagoya University, JAPAN); Y. Yamaguchi</i>
TS-56-4 (Ref. 706)	Forest Degradation Assessment through Landscape Metric Modeling <i>Jose Subin (Mahatma Gandhi University, INDIA); R. Santhosh Kumar; Alex; G. Madhu; A. Babu</i>
TS-56-5 (Ref. 328)	Detecting Change In Vegetation Condition using High Resolution Multispectral Imagery <i>Bradley Evans (Centre of Excellence for Climate Change, AUSTRALIA); P. Barber; T. Lyons; G. Hardy; C. Stone</i>
TS-56-6 (Ref. 794)	Investigation on Vegetation Change in Rangelands by Remote Sensing (Case Study: Fars Province) <i>Hosein Arzani (University of Tehran, IRAN); H. Mohammadi; S.R.F. Shamsi; M.T. Khorami</i>
TS-56-7 (Ref. 818)	Detecting Vegetation Anomalies in Response to Drought Change by Satellite Observations <i>Li Jia (Chinese Academy of Sciences, CHINA); J. Zhou; W. Wang; M. Menenti</i>

TS-57	2-E-2 ASSESSING CLIMATE IMPACT AND WATER USAGE
1600 – 1730	Location 2 (Level 1) <i>Chair Mohsin Hafeez, Charles Sturt University, AUSTRALIA</i>
Display Only (Ref. 261)	Mapping Chinese Irrigation in Three Periods: 1980, 1995 and 2000 <i>Xiufang Zhu (University of Maryland, USA); S. Liang; Y. Pan</i>
TS-57-1 (Ref. 773)	Spatial Mapping of Crop Water Demand in Indus Basin of Pakistan <i>Mohsin Hafeez (Charles Sturt University, AUSTRALIA); K. Ullah; U. Rabbani; Y. Chemin</i>
TS-57-2 (Ref. 994)	Evaluation of SEBS Algorithm for Estimation of Actual ET using ASTER Satellite Data for Irrigation Areas of Australia <i>Weiqiang Ma (Charles Sturt University, AUSTRALIA); M. Hafeez; Y. Chemin; U. Rabbani; Y. Ma; B. Su</i>
TS-57-3 (Ref. 783)	Drought Determination by Using Land Surface Temperature and Normalized Vegetation Index <i>Ibrahim Papila (Istanbul Technical University, TURKEY); E. Ozelkan; Z.D. Uca Avci; M. Karaman</i>
TS-57-4 (Ref. 573)	Coping With Climate Risk in Agriculture Needs Farmer Oriented Research and Extension Policies to Solve Food Security Crises and Reduce Poverty and Hunger in Ethiopia <i>Almaz Tadesse (National Meteorological Agency, ETHIOPIA)</i>
TS-57-5 (Ref. 573)	The Comparative Analysis of RFE, NDVI, Gauge Observation and Moisture Status for Agro-Meteorological Impact Assessment for Kiremt 2008 <i>Almaz Tadesse (National Meteorological Agency, ETHIOPIA)</i>

THURSDAY 14 APRIL 2011

PROGRAM AT A GLANCE – THURSDAY 14 APRIL

		ORAL PRESENTATIONS				ELECTRONIC PRESENTATIONS										
ROOM		Parkside 110a	Parkside 110b	G04	G05	Location 1	Location 2	Location 3								
		Level 1	Level 1	Ground Level	Ground Level	Level 1	Level 1	Level 1								
0830 – 1030	TS-58 3-0-9	GEO Forest Carbon Tracking Product Development	TS-59 11-0-4	Biomass Burning: New Perspectives on Quantitative Characterization (1) Measurement, Analysis and Validation	TS-60 4-0-1	Flood Monitoring and Assessment	TS-61 7-0-3	Urban Heat Islands and Hazards	TS-62 2-0-2	Monitoring Water Usage, Irrigation and Drought	TS-63 1-E-3	Land Surface 3: Vegetation and Radiation	TS-64 5-E-3	Tropical Environments: Coral Reefs, Seagrass Beds and Mangroves	TS-65 10-E-1	Airborne Science Applications 2
	TS-58 3-0-9															
1030 – 1100	MORNING TEA & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)															
1100 – 1230	TS-66 3-0-10	Mapping Ecosystems in Australia	TS-67 1-0-6	Biomass Burning: New Perspectives on Quantitative Characterization (2) Smoke Emissions	TS-68 12-0-1	Remote Sensing: Users, Priorities and Challenges	TS-69 11-0-5	Novel Information Extraction Algorithms	TS-70 2-0-3	Integrating Remote Sensing and Models for Agriculture and Environmental Management	TS-71 3-E-4	Vegetation Mapping 1: Identification and Distribution	TS-72 6-E-2	Wetlands	TS-73 10-E-2	Airborne Science Applications 3
1230 – 1400	LUNCH & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1) (Lunch at own arrangements)															

1400 – 1530	<p>TS-74 12-0-2 Thrilling Imagery and the Science of Design: Engaging the Public with Remote Sensing</p> <p>TS-75 4-0-2 Biomass Burning: New Perspectives on Quantitative Characterization (3) Fire Danger, Forecasting and Post-burn Analysis</p> <p>TS-76 5-0-4 Water Quality and Ocean Colour</p> <p>TS-77 11-0-6 Advanced Web Development</p> <p>TS-78 2-0-4 Soil Information from Remotely Sensed Data</p> <p>TS-79 3-E-5 Modelling Vegetation Characteristics</p> <p>TS-80 9-E-2 Global and Regional Systems</p>	
1530 – 1600	TEA & COFFEE BREAK & EXHIBITION VIEWING IN PARKSIDE FOYER (LEVEL 1)	
1600 – 1730	<p>TS-81 3-0-11 Forest Change</p> <p>TS-82 9-0-7 Biomass Burning: New Perspectives on Quantitative Characterization (4) Operational Systems and Regional Applications</p> <p>TS-83 4-0-3 Geohazard Assessment and Mapping</p> <p>TS-84 1-0-7 Weather and Forecasting</p> <p>TS-85 2-0-5 Mapping and Monitoring Erosion, Desertification and Land Degradation</p> <p>TS-86 3-E-6 Vegetation Mapping 2: Cover and Structure</p> <p>TS-87 6-E-3 Inland Water Bodies</p> <p>TS-88 11-E-2 Missions, Instruments, Information Systems and Data Standards</p>	
1730 – 1830	Closing Ceremony	
1830 – 1930	ISRSE 2011 CLOSING DRINKS IN THE BAYSIDE LOUNGE	

THURSDAY 14 APRIL 2011

TS-58	3-0-9 GEO FOREST CARBON TRACKING PRODUCT DEVELOPMENT
0830 – 1030	Parkside Auditorium <i>Co-Chair Ake Rosenqvist, soloEO, SWEDEN</i> <i>Co-Chair Tony Milne, University of NSW, AUSTRALIA</i>
TS-58-1 (Ref. 408)	Key Outcomes of the Tasmania 'National Demonstrator': A Project for the GEO Forest Carbon Tracking Task <i>Anthea Mitchell (University of NSW, AUSTRALIA); A. Milne; I. Tapley; K. Lowell; P. Caccetta; E. Lehmann; Z.Zhou; A. Held</i>
TS-58-2 (Ref. 1223)	Geoscience Australia's Support for Forest Carbon Initiatives in SE Asia <i>Medhavy Thankappan (Geoscience Australia, AUSTRALIA)</i>
TS-58-3 (Ref. 1139)	Generation of 10m Resolution PALSAR and JERS-SAR Mosaics and Forest/non-Forest Maps for Forest Carbon Monitoring <i>Masanobu Shimada (JAXA Earth Observation Research Center, JAPAN)</i>
TS-58-4 (Ref. 529)	Coordination of Space Data Acquisition in Support of GEO Forest Carbon Tracking – Achievements and Strategy <i>Ake Rosenqvist (soloEO, SWEDEN); F. M Seifert; H. Costa; T. Holm; Y. Crevier</i>
TS-58-5 (Ref. 954)	US SilvaCarbon Contributions to GEO Forest Carbon Tracking <i>Douglas Muchoney (US Geological Survey, USA)</i>
TS-58-6 (Ref. 1175)	EC - FP7 Projects Related to REDD <i>Francesco Pignatelli, European Commission, ITALY</i>
TS-59	11-0-4 BIOMASS BURNING: NEW PERSPECTIVES ON QUANTITATIVE CHARACTERIZATION (1) MEASUREMENT, ANALYSIS AND VALIDATION
0830 – 1030	Parkside 110a <i>Co-Chair Stefan Maier, Charles Darwin University, AUSTRALIA</i> <i>Co-Chair Amber Soja, NASA National Institute of Aerospace, USA</i>
TS-59-1 (Ref. 431)	Evolution of Active Fire Monitoring Capabilities from the US Geostationary and Polar Orbiting Satellite Series <i>Ivan Csizsar (NOAA, USA); C. Justice; E. Prins; W. Schroeder; C. Schmidt; L. Giglio</i>

TS-59-2 (Ref. 649)	Improved Results from Active Fire Detections through Accounting for Detection Opportunities and Efficiency <i>Edward Hyer (Naval Research Laboratory, USA); J. Reid; L. Giglio; C. Schmidt; E. Prins</i>
TS-59-3 (Ref. 281)	Satellite Active Fire Product Validation using High Spatial Resolution Reference Data <i>Wilfrid Schroeder (University of Maryland, USA); I. Csiszar; L. Giglio; E. Ellicott; C. Justice</i>
TS-59-4 (Ref. 672)	Sub-pixel Fractional Area of Wildfires from MODIS Observations: Retrieval, Validation, and Potential Applications <i>David Peterson (University of Nebraska, USA); J. Wang; C. Ichoku; E. Hyer</i>
TS-59-5 (Ref. 503)	Development of a method to transform life fuel moisture content into ignition probability <i>Marta Yebra (CSIRO, AUSTRALIA); S. Jurdao, J.M. Arevalillo; E. Chuvieco</i>
TS-60	4-0-1 FLOOD MONITORING AND ASSESSMENT
0830 – 1030	Parkside 110b <i>Co-Chair Adam Lewis, Geoscience Australia, AUSTRALIA</i> <i>Co-Chair Douglas Cripe, GEO Secretariat, SWITZERLAND</i>
TS-60-1 (Ref. 190)	Using Multiple Space Assets with In-situ Measurements to Track Flooding in Thailand <i>Steve Chien (California Institute of Technology, USA); J. Doubleday; D. McLaren; D. Tran; C. Khunboa; W. Leelapatra; V. Plermkamom; V. Tanpipat; R. Chitradon; S. Boonya-aroonnet</i>
TS-60-2 (Ref. 45)	Operational Rapid Flood Mapping: A Pilot Study in the Mekong Area <i>Rogier Westerhoff (Deltares, NETHERLANDS); M. Kleuskens; J. Huizinga</i>
TS-60-3 (Ref. 508)	Flood Extent Detection in Paddy Area and Future Plan of Disaster Information Sharing Platform in Rural Areas <i>Yasuharu Yamada (National Agriculture and Food Research Organization, JAPAN)</i>
TS-60-4 (Ref. 734)	Levee Soil Moisture Assessment based on Backpropagation Neural Network using Synthetic Aperture Radar <i>Nicolas Younan (Mississippi State University, USA); M. Mahrooghy; J. Aannstoos; K. Hassan</i>
TS-60-5 (Ref. 67)	Development of Glacier Lake Inventory in the Bhutan Himalayas using PRISM and AVNIR-2 onboard ALOS "DAICHI" <i>Takeo Tadono (JAXA, JAPAN); S. Kawamoto; T. Yamanokuchi; J. Ukita; C. Narama; H. Yabuki</i>

TS-60-6 (Ref. 688)	An Analysis of the Sensitivity of Flood Volume Calculation using Satellite Remotely-Sensed Imagery and Digital Elevation Models <i>Peter Dyce (CSIRO, AUSTRALIA); C. Ticehurst; L. Renzullo; P. Thew; T. Raupach</i>
TS-60-7 (Ref. 594)	Satellite-based Operational Flood Monitoring in Southern Queensland, Australia <i>Ben Gouweleeuw (CSIRO, AUSTRALIA); C. Ticehurst; P. Dyce; P. Thew; M. Doubkova; P. Berry</i>
TS-60-8 (Ref. 779)	River Flooding Observation Utilizing Remotely Piloted Aircraft <i>Douglas Marshall (New Mexico State University, USA)</i>
TS-60-9 (Ref. 267)	Evaluating the Impact of Flood Hazard caused by the Tropical Cyclones on Land Use using Remote Sensing and GIS in Wadi Aday, Sultanate of Oman <i>Salim Al-Hatrushi (SQU, OMAN)</i>
TS-60-10 (Ref. 833)	Global, Near Real Time Flood Mapping <i>Fritz Policelli (NASA, GSFC, USA); R. Brakenridge; D. Slayback; D. Ouzounov; J. Sun; S. Habib</i>
TS-61	7-0-3 URBAN HEAT ISLANDS AND HAZARDS
0830 – 1030	G04 (Ground Level) <i>Co-Chair Dale Quattrochi, NASA Earth Science Office, USA</i> <i>Co-Chair Marc Imhoff, NASA Goddard Space Flight Centre, USA</i>
TS-61-1 (Ref. 260)	Assessing the Urban Heat Island Effect across Biomes in the Continental USA using Landsat and MODIS <i>Marc Imhoff (NASA Goddard, USA); P. Zhang; L. Bounoua; R. Wolfe</i>
TS-61-2 (Ref. 702)	The SARPROZ InSAR tool for Urban Subsidence/ Manmade Structure Stability Monitoring in China <i>Daniele Perissin (Institute of Space and Earth Information Science, HONG KONG); Z. Wang; T. Wang</i>
TS-61-3 (Ref. 507)	Application of Persistent Scatterer Interferometry for Land Subsidence Monitoring in Sydney, Australia using ENVISAT ASAR Data <i>Alex Hay Man Ng (University of NSW, AUSTRALIA); L. Ge; K. Zhang; X. Li</i>
TS-61-4 (Ref. 231)	The Use of Atlas Data to Quantify Surface Radiative Budgets in Four US Cities <i>Jeffrey Luvall (NASA Marshall, USA); J. Gonzalez; D. Quattrochi; D. Rickman; S. Schiller; D. Comarazamy; M. Estes</i>
TS-61-5 (Ref. 191)	Spatial Autocorrelation of Variance in Land Surface Temperature and Air Temperature for Monitoring the Dynamics of Urban Heat Island in the Megacity Karachi, Pakistan <i>Salman Qureshi (University of Karachi, PAKISTAN)</i>

<p>TS-61-6 (Ref. 256)</p>	<p>Urban Heat Island Exploration using Satellite Land Surface Temperature Data and Air Temperature Sensor Networks: A Comparison <i>Charlie Tomlinson (University of Birmingham, UK); L. Chapman; J. Thornes; C. Baker; T. Prieto-Lopez</i></p>
<p>TS-61-7 (Ref. 315)</p>	<p>Determination of Heat Islands from Landsat TM Data: Relationship between Surface Temperature and Urbanization Factors in Istanbul <i>Cagdas Kuscu (Yildiz Technical University, TURKEY); B. Azengezer</i></p>
<p>TS-61-8 (Ref. 976)</p>	<p>Detecting Potential Drivers of Urban Heat Island in Northeast USA Cities using MODIS and Landsat Products <i>Ping Zhang (NASA Goddard, USA); M. Imhoff; R. Wolfe; L. Bounoua</i></p>
<p>TS-61-9 (Ref. 44)</p>	<p>Debris-flow Hazard at Al-Baha Descent Mountainous Road Western Saudi Arabia <i>Sadagah Bahaeldin (King Abdulaziz University)</i></p>
<p>TS-61-10 (Ref. 399)</p>	<p>A Multi-Scale Study of the Relationship between Remotely Sensed Urban Heat Islands and Greenness <i>Morgan Tipper (RMIT, AUSTRALIA); K. Reinke; S. Jones</i></p>
<p>TS-62</p>	<p>2-0-2 MONITORING WATER USAGE, IRRIGATION AND DROUGHT</p>
<p>0830 – 1030</p>	<p>G05 (Ground Level) <i>Co-Chair Jose Berni, CSIRO, AUSTRALIA</i> <i>Co-Chair Luigi Renzullo, CSIRO, AUSTRALIA</i></p>
<p>TS-62-1 (Ref. 764)</p>	<p>Application of Wireless Sensor Network for Water and Nitrogen Management <i>Rakhesh Devadas (RMIT University, AUSTRALIA); S. Jones; G. Fitzgerald; I. McCauley; B. Matthews; E. Perry; M. Watt; J. Ferwerda; A. Kouzani</i></p>
<p>TS-62-2 (Ref. 480)</p>	<p>Real Time Water Demand Forecasting by Integrating Remote Sensing Derived Actual Evapotranspiration with Meteorological Data for an Irrigation System <i>Kaleem Ullah (Charles Sturt University, AUSTRALIA); M. Hafeez; Y. Chemin; J. Sixsmith; R. Faux</i></p>
<p>TS-62-3 (Ref. 37)</p>	<p>Exploring the Potential of Combined Thermal and Hyperspectral Remote Sensing for Irrigation Scheduling in Potato <i>Alexandra Parker (Lancaster University, UK); A. Blackburn; J. Theobald</i></p>
<p>TS-62-4 (Ref. 1138)</p>	<p>A Simple Algorithm to Identify Irrigated Croplands by Remote Sensing <i>Weicheng Wu (International Center for Agricultural Research in the Dry Areas)</i></p>

TS-62-5 (Ref. 997)	Integration of Temporal Satellite Image Analysis in Development of Drought Indicator—Jhod Nadi, India <i>Ramakrishnan Nagarajan (Indian Institute of Technology, INDIA)</i>
TS-62-6 (Ref. 41)	Analysis of the Impact of Drought on NDVI in Drought and non-Drought Periods Combined with Precipitation and Land Cover Classifications in South Western China <i>Yang Liu (Hokkaido University, JAPAN); M. Guo; X. Wang; H. Tani</i>
TS-62-7 (Ref. 66)	Assessment of Soil Salinity in Some Areas, East Nile Delta, Egypt using Remote Sensing and GIS Techniques <i>Alaa Eldin Elnahry (National Authority for Remote Sensing and Space Sciences, EGYPT); E. Mohamed; Y. Margon</i>
TS-63	1-E-3 LAND SURFACE 3: VEGETATION AND RADIATION
0830 – 1030	Location 1 (Level 1) <i>Chair Ian Grant, Bureau of Meteorology, AUSTRALIA</i>
TS-63-1 (Ref. 390)	Reliability of GIS-based Solar Radiation Models and their Utilisation in Agro-meteorological Research <i>Lalit Kumar (University of New England, AUSTRALIA)</i>
TS-63-2 (Ref. 671)	Examining the Potential for a Fused Landsat-MODIS Snow Covered Area Essential Climate Variable Product <i>David Selkowitz (US Geological Survey, USA)</i>
TS-63-3 (Ref. 438)	Assessment of MSG/SEVIRI Surface Albedo Products over Europe <i>Hongyi Wu (University of Electronic Science and Technology, GREENBELT); S. Liang; L. Tong; T. He</i>
TS-63-4 (Ref. 140)	Interpretation of Variations in MODIS-Measured Greenness Levels of Amazon Forests during 2000 to 2009 <i>Ranga Myneni (Boston University, USA); A. Samata</i>
TS-63-5 (Ref. 455)	Evaluation of MODIS Surface Reflectance Products—Leaf Area Index (LAI) for Cerrado Vegetation Studies <i>Iris Amati Martins (National Institute for Space Research, BRAZIL); K. Jardineiro; B. Ginciene; J. Becerra; M. Bitencourt</i>
TS-63-6 (Ref. 356)	A Regression Tree Technique for the Retrieval of Land Surface Temperature from GOES-12 <i>Donglian Sun (George Mason University); Y. Yu; L. Fang</i>
TS-63-7 (Ref. 444)	Channel Selection for DRRI TES Method based on Hyperspectral TIR Data <i>Xinhong Wang (Academy of Opto-Electronics, CAS, CHINA); L. Ma; L. Tang; C. Li; Z. Liu</i>

TS-64	5-E-3 TROPICAL ENVIRONMENTS: CORAL REEFS, SEAGRASS BEDS AND MANGROVES
0830 – 1030	Location 2 (Level 1) <i>Chair Chris Roelfsema, University of Queensland, AUSTRALIA</i>
TS-64-1 (Ref. 308)	An Ensemble Of Classifiers Approach To Coral Distribution Mapping <i>Aidy M Muslim (University Malaysia Terengganu, MALAYSIA); D. David; Z. Bachok; A W. Sabri</i>
TS-64-2 (Ref. 385)	Bathymetry of Near-Shore Zones in Rongelap Atoll, Marshall Islands using Satellite Imagery <i>Simon Jones (RMIT University, AUSTRALIA); B. Rasaiah; N. Kiely; E. Peterson; M. Beger</i>
TS-64-3 (Ref. 1031)	Coral Reefs Survey and Mapping in Asutubun Island, Southeast Maluku Regency, Maluku Province, Indonesia <i>Syachrul Arief (Center for Marine Resources Surveys, INDONESIA); I.C. Mone</i>
TS-64-4 (Ref. 184)	Temporal Changes in Mangrove Cover between 1972 and 2001 along the South Coast of the Arabian Gulf <i>Arun Kumar (King Fahd University Of Petroleum And Minerals, SAUDI ARABIA)</i>
TS-64-5 (Ref. 541)	Change Detection Analyses and Landscape Metrics of Mangroves in Subtropical Estuarine Systems, Sao Paulo State, Southeast Brazil <i>Luis Conti (University Of Sao Paulo, BRAZIL); C. Araujo; D. Cavalari</i>
TS-65	10-E-1 AIRBORNE SCIENCE APPLICATIONS 2
0830 – 1030	Location 3 (Level 1) <i>Chair Brenda Mulac, NASA, USA</i>
TS-65-1 (Ref. 395)	Image Precise Co-registration for Airborne Interferometric Synthetic Aperture Radar <i>Shuxuan Chen (Institute of Electronics, CHINA); L. Jiang; M. Xiang.</i>
TS-65-2 (Ref. 496)	WETMAAP Ties Airborne Science to Geospatial Education <i>Catherine Lockwood (CNL World, USA); L. Handley; N. Handley; S. Bennett</i>
TS-65-3 (Ref. 674)	The Department of Energy Atmospheric Radiation Measurement Airborne Facility <i>Jason Tomlinson (Pacific Northwest National Laboratory, USA); B. Schmid; J. Hubbe; J. Comstock; C. Kluzek; C. Long; C. Flynn</i>
TS-65-4 (Ref. 325)	Development of ARC-Rail based Vehicle SAR System: Optimization and Field Test Results <i>Kwang-Eun Kim (KIGAM, KOREA); S-J. Cho; N-H. Sung; M-K. Kang; J-H. Lee</i>
TS-65-5 (Ref. 907)	Enhanced Remote and In-situ Sensing Capabilities of the NASA WB-57 Aircraft <i>Kenneth Cockrell (NASA Johnson, USA); K. Lesenski</i>

TS-66	3-0-10 MAPPING ECOSYSTEMS IN AUSTRALIA
1100 – 1230	Parkside Auditorium <i>Co-Chair Roger Sayre, US Geological Survey, USA</i> <i>Co-Chair Alex Held, CSIRO, AUSTRALIA</i>
TS-66-1 (Ref. 934)	Mapping Standardized Ecosystems for Australia and the Planet: The GEOSS Approach <i>Roger Sayre (US Geological Survey, USA)</i>
TS-66-2 (Ref. 586)	Physical Environment Characterisation for Australia—GEOSS Ecosystems Mapping <i>Lucy Randall (ABARE, AUSTRALIA); J. Wilford; K. Gallant</i>
TS-66-3 (Ref. 675)	NVIS and the GEOSS Ecosystem Classification <i>Matt Bolton (Dept Sustainability, Environment, Water, Population and Communities, AUSTRALIA); C. Meakin</i>
TS-66-4 (Ref. 1224)	Australia's First National Dynamic Land Cover Dataset <i>Leo Lymburner (Geoscience Australia, AUSTRALIA)</i>
TS-66-5 (Ref. 535)	AusCover: A Facility for Producing Consistent Remotely Sensed Biophysical Data Products of Australia <i>Kasper Johansen (University of Queensland, AUSTRALIA); A. Held; S. Phinn</i>
TS-66-6 (Ref. 1157)	Web Mapping for the Murray-Darling Basin Authority—The Challenges and Opportunities of Open Access <i>Alan Forghani (Murray-Darling Basin Authority, AUSTRALIA)</i>
TS-67	1-0-6 BIOMASS BURNING: NEW PERSPECTIVES ON QUANTITATIVE CHARACTERIZATION (2) SMOKE EMISSIONS
1100 – 1230	Parkside 110a <i>Co-Chair Ralph Kahn, NASA Goddard, USA</i> <i>Co-Chair Jeffrey Luvall, NASA Marshall, USA</i>
TS-67-1 (Ref. 557)	Quantitative Evaluation of MODIS Fire Radiative Power Measurements for Global Smoke Emissions Assessment <i>Charles Ichoku (NASA Goddard, USA); L. Ellison</i>
TS-67-2 (Ref. 987)	Near-real Time Global Biomass Burning Emissions Product from Multiple Geostationary Satellites <i>Xiaoyang Zhang (Earth Resources Technology Inc, USA); S. Kondragunta; J. Ram; C. Schmidt</i>
TS-67-3 (Ref. 768)	Quantitative Characterization of Emissions from Biomass Burning using Remote Sensing Measurements <i>Clare Walsh (University of Wollongong, AUSTRALIA); E. Young; D. Griffith</i>

TS-67-4 (Ref. 835)	Evaluating the Composition and Photochemistry of Boreal Biomass Burning Smoke Plumes using TES <i>Matthew Alvarado (Atmospheric and Environmental Research, USA); J. Logan; K. CadyPereira; V. Payne</i>
TS-67-5 (Ref. 732)	Wildfire Smoke Emissions—What we Learn from MISR and MODIS <i>Ralph Kahn (NASA Goddard, USA)</i>
TS-67-6 (Ref. 392)	Large Forest Fires Impact on Atmospheric Aerosol in Eastern Siberia <i>Vladimir Solovyev (Yu. G. Shafer Institute of Cosmophysical Research and Aeronomy, RUSSIA); A. Budishchev</i>
TS-68	12-O-1 REMOTE SENSING: USERS, PRIORITIES AND CHALLENGES
1100 – 1230	Parkside 110b <i>Co-Chair Francesco Pignatelli, EC, ITALY</i> <i>Co-Chair Kathleen Fontaine, NASA, USA</i>
TS-68-1 (Ref. 259)	GEO Earth Observations Priorities: Top 15 Observations <i>Lawrence Friedl (NASA, USA); E. Zell; A. Swanson</i>
TS-68-2 (Ref. 1181)	GEO User Types: A User Classification Guide <i>Kathleen Fontaine (NASA, USA); L. Friedl</i>
TS-68-3 (Ref. 272)	Communities of Practice and their Role in the Implementation of GEO <i>Ellsworth LeDrew (University of Waterloo, CANADA)</i>
TS-68-4 (Ref. 657)	The GEOSS User Requirement Registry: A Versatile Tool for the Dialog between Users and Providers <i>Hans-Peter Plag (Nevada Bureau of Mines and Geology, USA); F. Pignatelli; G. Ondich; J. Kaufman; G. Foley</i>
TS-68-5 (Ref. 839)	Identifying Benefits and Challenges in the Provision of GEOSS (Global Earth Observation System of Systems) <i>Christine Heumesser (University of Natural Resources and Life Sciences, AUSTRIA); S. Fritz; M. Obersteiner; I. McCallum</i>
TS-68-6 (Ref. 1256)	The COSMO-SkyMed Contribution to Environmental Sustainability and Monitoring <i>Andrea Celentano (e-GEOs, AUSTRALIA)</i>

TS-69	11-0-5 NOVEL INFORMATION EXTRACTION ALGORITHMS
1100 – 1230	G04 (Ground Level) <i>Co-Chair John Trinder, University of NSW, AUSTRALIA</i> <i>Co-Chair Kim Lowell, Cooperative Research Centre for Spatial Information, AUSTRALIA</i>
TS-69-1 (Ref. 898)	Optimization and Validation of Support Vector Machines for Land Cover Classification from Aerial Images and LiDAR Data <i>John Trinder (University of NSW, AUSTRALIA);</i> <i>M. Gomah</i>
TS-69-2 (Ref. 178)	Space-time Data Fusion for Remote Sensing Applications <i>Amy Braverman (California Institute of Technology, USA);</i> <i>H. Nguyen; N. Cressie</i>
TS-69-3 (Ref. 505)	An Approach for Automatic Change Inference in High Resolution Satellite Images <i>Shutaro Hashimoto (Hokkaido University, JAPAN);</i> <i>M. Onosato; T. Tadono; M. Hori; T. Moriyama</i>
TS-69-4 (Ref. 686)	Calibration of WorldView-2 Satellite Imagery to Reflectance Data using an Empirical Line Method <i>Grant Staben (Supervising Scientist Division, AUSTRALIA);</i> <i>K. Pfitzner; R. Bartolo; A. Lucieer</i>
TS-69-5 (Ref. 183)	Comparing Neural Networks, Invariant Moments and Mathematical Morphology Performances for Automatic Object Recognition <i>Giovanni Laneve (University of Rome, ITALY);</i> <i>G. Santilli</i>
TS-69-6 (Ref. 632)	Image Fusion of Hyper Spectral and High Resolution Satellite Data <i>P. Jeyapradeep (Anna University, INDIA);</i> <i>M. Navamuniyammal</i>
TS-70	2-0-3 INTEGRATING REMOTE SENSING AND MODELS FOR AGRICULTURE AND ENVIRONMENTAL MANAGEMENT
1100 – 1230	G05 (Ground Level) <i>Co-Chair Megan Lewis, University of Adelaide, AUSTRALIA</i> <i>Co-Chair Anne-Gaelle Ausseil, Landcare Research, NEW ZEALAND</i>
TS-70-1 (Ref. 180)	Estimating Pasture Quality using Landsat ETM+: Application for the Greenhouse Gas Inventory of New Zealand <i>Anne-Gaelle Ausseil (Landcare Research, NEW ZEALAND))</i>
TS-70-2 (Ref. 860)	Changes in Primary Productivity Following the Onset of the 2006 Extreme Hydroclimatic Event in South Eastern United States <i>Sergio Bernardes (University of Georgia, USA);</i> <i>M. Madden</i>

TS-70-3 (Ref. 724)	Inversion of a Radiative Transfer Model for Estimation of Rice Chlorophyll Content <i>Roshanak Darvishzadeh (Shahid Beheshti University, IRAN); A. Matkan; A. Dashti-Ahangar</i>
TS-70-4 (Ref. 603)	Applications of Object-Based Image Analysis Results for the Farmland Surrounding Kakamega Forest in Western Kenya <i>Gertrud Schaab (Karlsruhe University of Applied Sciences, GERMANY); T. Luebker; T. Lung; S.M. Nthuni</i>
TS-70-5 (Ref. 222)	Improvements of Rice and Wheat Models by Carbon Partitioning and with Multi Satellites and Meteorological Reanalysis Data <i>Daijiro Kaneko (Remote Sensing Environmental Monitor Inc, JAPAN); P. Yang; N.B. Chang; T. Kumakura</i>
TS-70-6 (Ref. 349)	Integrating Environmental and In-situ Hyperspectral Remote Sensing Variables for Grass Nitrogen Estimation in Savannah Ecosystems <i>Abel Ramoelo (University of Twente, SOUTH AFRICA); M. Cho; R. Mathieu; A. Skidmore; M. Schlerf; I. Heitkonig; H.Prins</i>
TS-71	3-E-4 VEGETATION MAPPING 1: IDENTIFICATION AND DISTRIBUTION
1100 – 1230	Location 1 (Level 1) <i>Chair Philip Tickle, Geoscience Australia, AUSTRALIA</i>
TS-71-1 (Ref. 326)	Object-Based Classification using UltraCam-D Images for Forest Tree Identification <i>Ali Darvishsefat (University of Tehran, IRAN); O. Rafieyan; S. Babaii; A. Mataji</i>
TS-71-2 (Ref. 681)	A Comparison between GARP Model and SVM Regression to Predict Species Potential Distribution: Mapping the Invasive <i>Miconia calvescens</i> on Moorea, French Polynesia <i>Robin Pouteau (University of French Polynesia, FRENCH POLYNESIA); J-Y. Meyer; R. Taputuarai; B. Stoll</i>
TS-71-3 (Ref. 681)	A Comparison of Machine Learning Algorithms for Classification of Tropical Ecosystems Observed by Multiple Sensors at Multiple Scales <i>Robin Pouteau (University of French Polynesia, FRENCH POLYNESIA); A. Collin; B. Stoll</i>
TS-71-4 (Ref. 208)	Comparison of Broadband and Hyperspectral Sensors for Lantana Mapping <i>Subhashni Taylor (University of New England, AUSTRALIA); L. Kumar; N. Reid</i>
TS-71-5 (Ref. 681)	Toward an Optimal Fusion Scheme for Multisource Vegetation Classification <i>Robin Pouteau (University of French Polynesia, FRENCH POLYNESIA); C. Lardeux; B. Stoll; S. Chabrier</i>

TS-71-6 (Ref. 239)	Pest Detection of Artificial Seabuckthorn Shrubberies in China through Remote Sensing <i>Yaqin Cui (Beijing Forestry University, CHINA); Y. Luo; S. Zong</i>
TS-71-7 (Ref. 346)	The Use of Remote Sensing and Geographical Information Systems to Identify Vegetation: Dhofar Governorate (Oman) Case Study <i>Talal Al-Awadhi (SQU, OMAN); A. Al-Shukili; Q. Al-Amri</i>
TS-72	6-E-2 WETLANDS
1100 – 1230	Location 2 (Level 1) <i>Chair Renee Bartolo, Dept Sustainability, Environment, Water, Population and Communities, AUSTRALIA</i>
Display Only (Ref. 626)	Decline of Sumatran Peatswamp Forests Since 1990 <i>Soo Chin Liew (National University of Singapore, SINGAPORE); Jukka Miettinen; L K. Kwok</i>
TS-72-1 (Ref. 662)	Environmental and Climate Change Related Trends in River Deltas: Examples from the Mekong <i>Claudia Kuenzer (German Remote Sensing Data Centre, GERMANY); J. Huth; S. Gebhardt; P. Leinenkugel; N. Lam Dao; S. Dech</i>
TS-72-2 (Ref. 1083)	Monitoring Inundated Wetlands Ecosystems with Satellite Microwave Remote Sensing in Support of Earth System Science Research <i>Kyle McDonald (City College of New York, USA); B. Chapman; E. Podest; R. Schroeder; S. Flores; K. Willacy; M. Moghaddam; J. Whitcomb; L. Hess; J. Kimball</i>
TS-72-3 (Ref. 413)	The Use of Satellite Image Analysis in Monitoring the Effects of Water Extraction from a Groundwater-Dependent Coastal Subtropical Australian Wetland <i>Alison Specht (University Of Queensland, AUSTRALIA); S. Pathirana; G. Luker</i>
TS-72-4 (Ref. 175)	Analysis of LiDAR's Ability in Wetland Investigation—A Case Study in Yellow River Delta <i>Qiong Ding (Hong Kong Polytechnic University, HONG KONG); W. Chen; B. Ken</i>
TS-72-5 (Ref. 647)	Using LiDAR Data to Evaluate Wetland Functions <i>Sebastien Rapinel (The University of Rennes, FRANCE); L. Hubert-Moy; B. Clemet</i>
TS-72-6 (Ref. 783)	The Analysis of Destruction in Flamingo Habitat of Acigol Wetland <i>Ibrahim Papila (Istanbul Technical University, TURKEY); M. Karaman; E. Ozelkan; Z.D. Uca Avci</i>
TS-72-7 (Ref. 1005)	Ecological Suitability and Temporal Analysis of Ucchali Lake for White Headed Duck <i>Oxyura leucocephala</i> <i>Asma Zafar (National University of Sciences and Technology, PAKISTAN); S.S. Bhatti; J. Iqbal</i>

TS-73	10-E-2 AIRBORNE SCIENCE APPLICATIONS 3
1100 – 1230	Location 3 (Level 1) <i>Chair Steve Wegener, Bay Area Environmental Research Institute, USA</i>
TS-73-1 (Ref. 395)	Channel Delay Estimation for Interferometric Aperture Radar <i>Shuxuan Chen (Institute of Electronics, CHINA); M. Xiang; L. Jiang</i>
TS-73-2 (Ref. 387)	The Method of Homonymic Tie Points Extraction in the Combined Block Adjustment of Airborne InSAR <i>Limin Jiang (Institute of Electronics, CHINA); M. Xiang; Y. Mao</i>
TS-73-3 (Ref. 293)	Fast Geolocation for Hot Spot Detection <i>Cristina Barrado (Technical University of Catalonia, SPAIN); E. Salami; M. Pérez-Batlle; P. Royo; E. Santamaria; E. Pastora</i>
TS-73-4 (Ref. 434)	Hyperspectral Remote Sensing Applications in Mining Impact Analysis <i>Christoph Ehrler (German Aerospace Center, GERMANY); C. Fischer; M. Bachmann</i>
TS-73-5 (Ref. 661)	Common Payload Interface for Science Investigation using Small Unmanned Aerial Systems (UAS) and Low Earth Orbit (LEO) Small Satellites (SSAT) <i>Mike Hitch (NASA, USA)</i>
TS-74	12-O-2 THRILLING IMAGERY AND THE SCIENCE OF DESIGN: ENGAGING THE PUBLIC WITH REMOTE SENSING
1400 – 1530	Parkside Auditorium <i>Co-Chair Marc Imhoff, NASA Goddard, USA</i> <i>Co-Chair Leo Lymburner, Geoscience Australia, AUSTRALIA</i>
TS-74-1 (Ref. 1071)	A Global Perspective of Scientific Visualization: Developing Impacting and Understandable Imagery to Engage Audiences <i>Steven Ackerman (University of Wisconsin-Madison, USA); D. Pisut; A. Powell</i>
TS-74-2 (Ref. 651)	Adapting Professional Design Software to Science Visualization <i>Marit Jentoft Nilsen (NASA Goddard, USA)</i>
TS-74-3 (Ref. 555)	Ereefs: Integrating Earth Observation, Modelling and Visualisation for the Management of Australia's Great Barrier Reef <i>Stuart Minchin (CSIRO, AUSTRALIA)</i>
TS-74-4 (Ref. 604)	A Data Visualization Case Study: Ash from Eyjafjallajökull Volcano <i>Robert Simmon (NASA Goddard, USA)</i>
TS-74-5 (Ref. 635)	CloudSat Reflectivity Data Visualization Inside Hurricanes <i>John Wright (Jet Propulsion Laboratory, USA); S. Suzuki; P. Falcon</i>

TS-75	4-0-2 BIOMASS BURNING: NEW PERSPECTIVES ON QUANTITATIVE CHARACTERIZATION (3) FIRE DANGER, FORECASTING AND POST-BURN ANALYSIS
1400 – 1530	Parkside 110a <i>Co-Chair Charles Ichoku, NASA Goddard, USA</i> <i>Co-Chair Stefan Maier, Charles Darwin University, AUSTRALIA</i>
TS-74-1 (Ref. 831)	Analysis of the Ability of Large-Scale Reanalysis Data to Define Siberian Fire Danger in Preparation for Future Fire Prediction <i>Amber Soja (NASA National Institute of Aerospace, USA); D. Westberg; P. Stackhouse; D. Mcrae; J-Z. Jin; A. Sukhinin</i>
TS-74-2 (Ref. 684)	Spatial Analysis of the Relationship between Flammable Fuel Connectivity and Fire Regimes <i>Gabriele Caccamo (University of Wollongong, AUSTRALIA); L. Chisholm; M. Puotinen; R. Bradstock</i>
TS-74-3 (Ref. 76)	Mapping Fire Severity from Satellite Imagery for Greenhouse Gas Emissions Calculations and Operational Use <i>Andrew Edwards (Bushfires NT, AUSTRALIA); S. Maier; L. Hutley; J. Russell-smith; C. Yates</i>
TS-74-4 (Ref. 141)	Burn Severity Mapping in Australia 2009 <i>Randy McKinley (US Geological Survey, USA); J. Clark; J. Lecker</i>
TS-74-5 (Ref. 838)	US Geological Survey Development of a Landsat-Based Fire Disturbance ECV <i>Susan Stitt (US Geological Survey, USA)</i>
TS-74-6 (Ref. 695)	Multi-Scale Meteorological Conceptual Models of Observed Active Fire Hotspot Activity in the Maritime Continent <i>Jeffrey Reid (Naval Research Laboratory, USA); E. Hyer; P. Xian; E. Ramirez; M. Flatau; F. Turk</i>
TS-76	5-0-4 WATER QUALITY AND OCEAN COLOUR
1400 – 1530	Parkside 110b <i>Co-Chair Mervyn Lynch, Curtin University, AUSTRALIA</i> <i>Co-Chair Tiit Kuster, University of Tartu, ESTONIA</i>
TS-76-1 (Ref. 71)	Spatial and Temporal Assessment of Exceedance of Water Quality Guidelines for the Great Barrier Reef Lagoon using Remote Sensing Data <i>Vittorio Brando (CSIRO, AUSTRALIA); T. Schroeder; A. Dekker; B. Schaffelke; M. Devlin</i>
TS-76-2 (Ref. 602)	Satellite Derived Euphotic Depth on the Great Barrier Reef: Understanding Physical Drivers of Spatio-Temporal Patterns of Water Clarity <i>Scarla Weeks (University of Queensland, AUSTRALIA); J. Werdell; Z. Lee; M. Canto; B. Scaffelke</i>

TS-76-3 (Ref. 522)	Ocean Colour Uncertainties <i>Samantha Lavender (ARGANS Limited, UK); K. Barker; O. Fanton d'andon; S. Kay; L. Bourg; C. Kent; S.Emsley; M. McCulloch; P. Goryl</i>
TS-76-4 (Ref. 309)	Land Use Change Affects Coastal Water Quality around Borneo <i>Martin Wegmann (University Of Wuerzburg, GERMANY); B. Oney; A. Shapiro; S. Dehc</i>
TS-76-5 (Ref. 1208)	Monitoring Satellite Chlorophyll and Optical Properties in the New Caledonia Lagoon (Southwest Tropical Pacific) <i>Cecile Dupouy (IRD, NEW CALEDONIA); J. Lefevre; A. Minghelli-roman; R. Fuchs; A. Diguier; A. Cheype; M.Despinoy; M. Mangeas; C. Menkes</i>
TS-76-6 (Ref. 435)	Statistics of Surface Wind Effect on Ocean Colour Measured from Space <i>Dmitry Ermakov (Russian Academy of Sciences, RUSSIA); M. Smirnov; V. Polyakov;</i>
TS-76-7 (Ref. 772)	Monitoring Tropical Coastal Waters of Berau Estuary, East Kalimantan, Indonesia using MERIS Data <i>Wiwin Ambarwulan (National Coordination Agency for Surveys and Mapping, INDONESIA); C. Mannaerts; H. Woerd; M. Salama</i>
TS-77	11-O-6 ADVANCED WEB DEVELOPMENT
1400 – 1530	G04 (Ground Level) <i>Co-Chair Siri Jodha Khalsa, University of Colorado, USA</i> <i>Co-Chair Alan Forghani, Murray-Darling Basin Authority, AUSTRALIA</i>
TS-77-1 (Ref. 488)	Web Based Processing of Remote Sensing Data in a Workflows Environment <i>Peter Fearn (Curtin University, AUSTRALIA); M. Bellgard; M. Broomhall; H. Chedzey; R. Garcia; A. Hunter; E.King; M. Lynch; D. Schibeci; G. Smith</i>
TS-77-2 (Ref. 416)	Ensemble Dust Storm Detection Techniques Utilising a Web-Based Workflow Environment Linked to a High Performance Computing System <i>Mark Broomhall (Curtin University, AUSTRALIA); H. Chedzey; R. Garcia; M. Lynch; P. Fearn; E. King; G.Smith; D. Schibeci</i>
TS-77-3 (Ref. 53)	Uncertainty Propagation in the Model Web: A Case Study with e-Habitat <i>Gregoire Dubois (Joint Research Centre of the European Commission, ITALY); J. Skoien; P. Truong; D. Cornford; GBM. Heuvelink; G. Geller</i>
TS-77-4 (Ref. 176)	Contribution of GeoWeb 2.0 to Build a SDI System for Remote Sensing Satellite Data of China <i>Yi Ren (Center for Earth Observation and Digital Earth, CHINA); J. Duan; S. Liu</i>

TS-77-5 (Ref. 189)	Web-Based Near Real-Time Remote Sensing Data System Providing Decision Support for Precision Agriculture <i>Xiaodong Zhang (University of North Dakota, USA)</i>
TS-77-6 (Ref. 422)	Data Processing using Web Processing Service Orchestration within a Spatial Data Infrastructure <i>Thilo Wehrmann (German Aerospace Center, GERMANY); S. Gebhardt; V. Klinger; C. Kuenzer</i>
TS-78	2-0-4 SOIL INFORMATION FROM REMOTELY SENSED DATA
1400 – 1530	G05 (Ground Level) <i>Co-Chair Cindy Ong, CSIRO, AUSTRALIA</i> <i>Co-Chair Konrad Wessels, CSIR, SOUTH AFRICA</i>
TS-78-1 (Ref. 878)	Retrieval of Soil Erosion Relevant Parameters in the Western Australian Wheat Belt Region from both VNIR-SWIR and TIR Spectral Signatures <i>Andreas Eisele (German Research Center for Geosciences, GERMANY); S. Chabrilat; I. Lau; C. Kobayashi; B. Wheaton; D. Carter; R. Hewson; O. Kashimura; M. Kato; C. Ong; T. Cudahy; H. Kaufmann</i>
TS-78-2 (Ref. 593)	Soil Covariates from ASTER <i>Cindy Ong (CSIRO, AUSTRALIA); M. Caccetta; I. Lau; B. Wheaton; D. Carter; T. Cudahy; O. Kashimura; C. Kobayashi</i>
TS-78-3 (Ref. 680)	The Effect of Spectral Unmixing of Hyperspectral Imagery for Mapping of Soil Properties <i>Chiaki Kobayashi (ERSDAC, JAPAN)</i>
TS-78-4 (Ref. 776)	Estimating Soil Surface Roughness using a Geometric-Optical Bi-Directional Reflectance Model <i>Adrian Chappell (CSIRO, AUSTRALIA); A. Stevens</i>
TS-78-5 (Ref. 892)	Digitally Mapping the Soil Information Content of Surficial Australian Visible-Near Infrared Spectra <i>Viscarra Rossell (CSIRO, AUSTRALIA)</i>
TS-79	3-E-5 MODELLING VEGETATION CHARACTERISTICS
1400 – 1530	Location 1 (Level 1) <i>Chair Megan Lewis, University of Adelaide, AUSTRALIA</i>
TS-79-1 (Ref. 464)	Monitoring of Net Ecosystem CO ₂ Exchange for the Soil Moisture Active Passive Mission <i>John Kimball (The University of Montana, USA); Y. Yi; L. Jones; R. Reichle; K. McDonald</i>
TS-79-2 (Ref. 539)	Comparison of Leaf Area Index Retrieval using Gap Fractions and Experiential LAI-VI Models at Different Spatial Resolutions <i>Bo Cheng (Centre For Earth Observation And Digital Earth, CHINA); F. Liu</i>

TS-79-3 (Ref. 624)	A Study on Land Reflectance and Vegetation Index with Special Reference to Climate Change – A Case Study of Kurnool District <i>Hema Sailaja Vendra (Jawaharlal Nehru Technological University, INDIA); K.S. Kumar; M.A. Reddy</i>
TS-79-4 (Ref. 332)	Monotonicity of Two-Band Spectral Vegetation Index in General Form under a Two-Endmember Linear Mixture Model <i>Kenta Obata (Aichi Prefectural University, JAPAN); H. Yoshioka</i>
TS-79-5 (Ref. 332)	On the Resolution Transfer Sequence that Results in Monotonic Changes of Area-Averaged Two-Band Spectral Vegetation Indices <i>Kenta Obata (Aichi Prefectural University, JAPAN); H. Yoshioka</i>
TS-79-6 (Ref. 451)	Investigating Relationships between Precipitation, Soil Water Content and MODIS-Derived NDVI and EVI for Six Sites in Sub-Saharan Africa <i>Sadegh Jamali (Lund University, SWEDEN); J. Seaquist; J. Ardö; L. Eklundh</i>
TS-79-7 (Ref. 725)	Variation and Uncertainty in Satellite-Derived Global Leaf Area Indices in the Last Decade <i>Jadunandan Dash (University of Southampton, UK); J. Dungan; F. Vuolo; S. Ganguly</i>
TS-80	9-E-2 GLOBAL AND REGIONAL SYSTEMS
1400 – 1530	Location 2 (Level 1) <i>Chair Alessandro Burini, ESA, ITALY</i>
TS-80-1 (Ref. 843)	USGS International Research: Provides Basis for Developing Country's Internet/Web Based GIS and Remote Sensing Community Updates <i>Thomas Kerr (Global Marketing Insights Inc, USA); S. Johnson; S. Loy</i>
TS-80-2 (Ref. 581)	Harmonised European Land Monitoring <i>Herbert Haubold (Environment Agency Austria, AUSTRIA)</i>
TS-80-3 (Ref. 826)	Resource Evaluations of Afghanistan using Hymap Data <i>Trude King (US Geological Survey, USA); D. Knepper; T. Hoefen; R. Kokaly.</i>
TS-80-4 (Ref. 259)	NASA Applied Sciences Program: Strategy, Implementation, and Accomplishments <i>Lawrence Friedl (NASA, USA)</i>
TS-80-5 (Ref. 274)	Landgate's Operational Remote Sensing Program in Western Australia: From Local to National Scale <i>Brendon McAtee (Landgate, AUSTRALIA); M. Adams; A. Allen; R. Craig; M. Ferri; J. Marsden; N. Santich; M. Steber; R. Stovold</i>

TS-80-6 (Ref. 274)	INDOFIRE: An Infrastructure and Operational MODIS-Based Near Real-Time Fire Monitoring Program in Indonesia <i>Brendon McAtee (Landgate, AUSTRALIA); K. Dawbins; M. Steber; S. Khokhar; A. Allen</i>
TS-80-7 (Ref. 542)	Environmental Monitoring in Latin America by ALOS <i>Nobuhiro Tomiyama (Remote Sensing Technology Center of Japan, JAPAN); M. Ono; Y. Haruyama</i>
TS-81	3-O-11 FOREST CHANGE
1600 – 1730	Parkside Auditorium <i>Co-Chair Philip Tickle, Geoscience Australia, AUSTRALIA</i> <i>Co-Chair Adam Gerrand, FAO, ITALY</i>
TS-81-1 (Ref. 377)	Automating Woody Vegetation Change Detection at Regional Scales: The Problem of Clouds and Cloud-Shadows <i>Adrian Fisher (University of NSW, AUSTRALIA); T. Danaher</i>
TS-81-2 (Ref. 670)	Monitoring of Forest Cover Change in the Republic of Gabon between 1990, 2000 and 2010 following IPCC Guidelines <i>Christophe Sannier (Systèmes D'Information à Référence Spatiale, FRANCE); E. Massard; K. Makaga; L-V. Fichet; B. Mertens; F. Huynh</i>
TS-81-3 (Ref. 299)	Mapping Tropical Dry Forest Succession with CHRIS – PROBA Hyperspectral Images using NonParametric Decisional Trees <i>Virginia Garcia-Millan (University Autonoma de Barcelona, SPAIN); G.A. Sanchez-Azofeifa</i>
TS-81-4 (Ref. 419)	Utilization of ALOS Satellite Data to Support Mapping and Monitoring Deforestation and Degradation in Indonesia <i>Masatoshi Kamei (RESTEC, JAPAN); Y. Haruyama; M. Ono; A. Kristijono; W. Wardoyo</i>
TS-81-5 (Ref. 518)	Forest Cover Loss in Sumatra and Kalimantan, Indonesia. Accurate Maps and Annual Trends Derived from Time-Series Analysis of Multi-Resolution Optical Remote Sensing Data <i>Mark Broich (South Dakota State University, USA); M. Hansen; F. Stolle; P. Potapov; S. Stehman; E. Lindquist; B. Adusei</i>

TS-82	9-0-7 BIOMASS BURNING: NEW PERSPECTIVES ON QUANTITATIVE CHARACTERIZATION (4) OPERATIONAL SYSTEMS AND REGIONAL APPLICATIONS
1600 – 1730	Parkside 110a <i>Co-Chair Lawrence Friedl, NASA, USA</i> <i>Co-Chair Andrew Edwards, Bushfires NT, AUSTRALIA</i>
TS-82-1 (Ref. 609)	Aircraft and Helicopter Usage in Forest Fires in Turkey (A Case Study: Antalya Region) <i>Necmettin Ay (Regional Forest Directorate of Antalya, TURKEY)</i>
TS-82-2 (Ref. 929)	Development of a Fire Induced Flashover Probability Index for Fires Close to High Voltage Transmission Lines in South Africa <i>Philip Frost (CSRI Meraka Institute, SOUTH AFRICA); H. Vosloo; J. Meeuwis</i>
TS-82-3 (Ref. 780)	Mapping Long-Term Fire History using Landsat TM and ETM+ Imagery Time-Series for Queensland, Australia <i>Nicholas Goodwin (QLD Dept of Environment & Resource Management, AUSTRALIA); L. Collett; R. Denham; D. Tindall</i>
TS-82-4 (Ref. 50)	Characterising Bush Fires in Australia's Top End using MODIS Active Fire Observations <i>Stefan Maier (Charles Darwin University, AUSTRALIA); A. Edwards; J. Russell-Smith; C. Yates</i>
TS-82-5 (Ref. 274)	FIREWATCH—Operational Remote Sensing for Bushfire Detection, Simulation and Warning Information Dissemination in Near-Real Time <i>Brendon McAtee (Landgate, AUSTRALIA); M. Adams; R. Craig; M. Steber; A. Allen; G. van Burgel; B. James; K. Moss</i>
TS-82-6 (Ref. 748)	Fuelcel – A High Resolution Web Based Remote Fuel Monitoring and Bushfire Simulation System <i>Christopher Power (Rastermatics, AUSTRALIA)</i>
TS-82-7 (Ref. 704)	The European Forest Fire Information System (EFFIS) and Related Burnt Scar Mapping Initiatives <i>Fernando Sedano (Joint Research Centre, ITALY); P. Kempeneers; P. Strobl; J. San MiguelAyanz</i>
TS-82-8 (Ref. 760)	Wildfires in Forests of Tyva Republic <i>Khulermay Kuular (Tuvian Institute for the Exploration of Natural Resources, RUSSIA); E. Ponomarev; S. Khertek</i>

TS-83	4-0-3 GEOHAZARD ASSESSMENT AND MAPPING
1600 – 1730	Parkside 110b Co-Chair Linlin Ge, University of NSW, AUSTRALIA Co-Chair Hans-Peter Plag, Nevada Bureau of Mines and Geology, USA
TS-83-1 (Ref. 514)	A GIS and RS-Based Quantitative Vulnerability Assessment for Rainfall Triggered Landslides Arzu Erener (Selcuk University, TURKEY); S. Duzgun
TS-83-2 (Ref. 415)	A Study of Detection of Landslide Disasters due to the Pakistan Earthquake using ALOS Data Ryoichi Furuta (RESTEC, JAPAN); N. Tomiyama
TS-83-3 (Ref. 659)	A Method for Unsupervised Change Detection and Automatic Radiometric Normalization in Multispectral Data Allan Nielsen (Technical University of Denmark, DENMARK); M. Canty
TS-83-4 (Ref. 21)	Rubble Detection from VHR Aerial Imagery Data using Differential Morphological Profiles Georgios Ouzounis (Global Security and Crisis Management Unit, ITALY); P. Soille; M. Pesaresi
TS-83-5 (Ref. 510)	Potential and Limitations of SAR Data for Monitoring and Detection of Slow Moving Landslides, Experience within the Project SAFER Stefan Schneiderbauer (European Academy Bozen, ITALY); C. Iasio; V. Mair; C. Strada; A. Sonnerer
TS-83-6 (Ref. 298)	InSAR Monitoring of Landslides Affecting Highways and Pipelines Vern Singhroy (Canada Centre for Remote Sensing, CANADA); G. Pavlic; F. Charbonneau
TS-83-7 (Ref. 869)	Identify Damaged Buildings from High-Resolution Satellite Imagery in Hazard Area using Differential Morphological Profile Dinesh Parape (Kyoto University, JAPAN); M. Tamura
TS-84	1-0-7 WEATHER AND FORECASTING
1600 – 1730	G04 (Ground Level) Co-Chair Mervyn Lynch, Curtin University, AUSTRALIA Co-Chair Leonid Bobylev, NIERSC, RUSSIA
TS-84-1 (Ref. 789)	Using Earth Observations from Space to Monitor and Predict Weather and Climate John Le Marshall (Bureau of Meteorology, AUSTRALIA); J. Jung; Y. Xiao; W. Smith; P. Gregory; J. Lee; R. Seecamp
TS-84-2 (Ref. 319)	Use of Near Real-Time CALIPSO and CloudSat Observations to Assess the Performance of a Numerical Weather Prediction Model Stuart Young (CSIRO, AUSTRALIA); A. Protat; L. Rickus; M. Whimpey; M. Borgas; P. May

<p>TS-84-3 (Ref. 435)</p>	<p>Stream Handler System: An Experience of Application to Investigation of Global Tropical Cyclogenesis <i>Dmitry Ermakov (Russian Academy of Sciences, RUSSIA); A. Chernushich; E. Sharkov; Y. Shramkov</i></p>
<p>TS-84-4 (Ref. 170)</p>	<p>The Potential of Weather Watch Radar to Predict the Spatial Distribution of Rainfall Patterns in the Kimberley Region and Applications for Natural Resource Management <i>Martin Dillon (University of New England, AUSTRALIA); L. Kumar</i></p>
<p>TS-84-5 (Ref. 172)</p>	<p>Detecting Thin Cirrus from MISR with Oblique Camera Analysis <i>Abhnil Prasad (University of Auckland, NEW ZEALAND); R. Davies</i></p>
<p>TS-84-6 (Ref. 904)</p>	<p>The Development of the Research in Digital Visibility Instruments and the Related Comparative Experiments <i>Jingli Wang (Institute of Urban Meteorology, CHINA); W. Zhao; G. Liu</i></p>
<p>TS-85</p>	<p>2-0-5 MAPPING AND MONITORING EROSION, DESERTIFICATION AND LAND DEGRADATION</p>
<p>1600 – 1730</p>	<p>G05 (Ground Level) <i>Co-Chair Cindy Ong, CSIRO, AUSTRALIA</i> <i>Co-Chair Chiaki Kobayashi, ERSDAC, JAPAN</i></p>
<p>TS-85-1 (Ref. 441)</p>	<p>Delineation of Soil Parameters to Assess Ecosystem Degradation using Spectral Mixture Analysis <i>Anita Bayer (German Aerospace Center, GERMANY); M. Bachmann; A. Müller</i></p>
<p>TS-85-2 (Ref. 49)</p>	<p>Analysis of Desertification with Wood Land Distribution—A Case Study in Balinyou County in Inner Mongolia, China <i>Meng Guo (Hokkaido University, JAPAN); Y. Liu; X. Wang; N. Matsuoka; L. Chen; H. Tani</i></p>
<p>TS-85-3 (Ref. 430)</p>	<p>Can Linear Trend Analyses of NDVI Time Series Data Truly Detect Land Degradation? Simulations May Provide the Answer <i>Konrad Wessels (CSIR, SOUTH AFRICA); S. Miteff</i></p>
<p>TS-85-4 (Ref. 656)</p>	<p>Monitoring Wind Erosion Source Areas and Risks over NSW using Time-Series Satellite Images <i>Xihua Yang (NSW Dept Environmental Climate Change and Water, AUSTRALIA)</i></p>
<p>TS-85-5 (Ref. 27)</p>	<p>Study the Role of Thermal Band for Soil Mapping of Arid Environments (Case Study: Chejam Playa, Iran) <i>Amir Houshang Ehsani (University of Tehran, IRAN)</i></p>

TS-86	3-E-6 VEGETATION MAPPING 2: COVER AND STRUCTURE
1600 – 1730	Location 1 (Level 1) <i>Chair Nancy Glenn, Idaho State University, USA</i>
TS-86-1 (Ref. 443)	Potential of Polarimetric RADARSAT-2 C-Band SAR Imagery to Map Woody Vegetation Structure in African Savannas <i>Renaud Mathieu (CSIR, SOUTH AFRICA); R. Main; B. Leblon; K. Wessels; J. Buckley; M. Cho; J. Van Aardt; G. Asner; B. Erasmus</i>
TS-86-2 (Ref. 1026)	Vegetation Cover Mapping using Multi-Temporal HJ Satellite Data <i>Shiming Li (Institute Of Forest Resources Information Techniques, CHINA); Z. Li; E. Chen</i>
TS-86-3 (Ref. 469)	Use of High Resolution LiDAR and Hyperspectral Data to Evaluate the Sensitivity of Net Ecosystem Exchange to Stand Structural and Plant Chemical Properties <i>Eva Van Gorsel (CSIRO, AUSTRALIA); N. Kljun; R. Leuning; J.A.J. Berni; A. Cabello-Leblic; V. Haverd; A. Held; C. Hopkinson; L. Chasmer; K. Youngetob</i>
TS-86-4 (Ref. 551)	Estimating Fractional Cover of Grassland Components from Two Satellite Remote Sensing Sensors <i>Michael Hill (University of North Dakota, USA); Y.L.Zhang; A. Smith</i>
TS-86-5 (Ref. 586)	Vegetation Height Map for Australia using ICESat Data <i>Lucy Randall (ABARE, AUSTRALIA); P. Scarth; C. Howell</i>
TS-86-6 (Ref. 770)	Relationships of Propagated Error in Fraction of Vegetation Cover Among the Retrieval Algorithms Based on a Linear Mixture Model <i>Hiroki Yoshioka (Aichi Prefectural University, JAPAN); K. Obata</i>
TS-86-7 (Ref. 821)	Estimating Semiarid Vegetation Height from GLAS Data <i>Lucas Spaete (Idaho State University, USA); N. Glenn; R. Shrestha</i>
TS-86-8 (Ref. 756)	Vegetation Crown Covers Evaluation of Arid Areas using IRS Images <i>Seyed Hassan Kaboli (University of Tehran, IRAN); H. Azarnivand; H. Arzani; Sh. Fadaie; A. Afzali</i>

TS-86-9 (Ref. 788)	Application of Remote Sensing for Vegetation Cover Assessment in Rangeland Ecosystem <i>Soheila Noori (University of Zabol, IRAN); H. Arzani; H. Kaboli; M. Zaboli</i>
TS-X-10 (Ref. 728)	Robustness and Constraints on Spatial Transferability of Fractional Cover in the Caprivi, Namibia <i>Julian Zeidler (University Of Wuerzburg, GERMANY); M. Wegmann; A. Shapiro; S. Dech</i>
TS-87	6-E-3 INLAND WATER BODIES
1600 – 1730	Location 2 (Level 1) <i>Chair Janet Anstee, CSIRO, AUSTRALIA</i>
TS-87-1 (Ref. 295)	Comparison Study on Expansion of Glacial Lakes in the Northern and Southern Slopes of the Himalayas <i>Wenbo Chen, Keio University, JAPAN; W. Chen; H. Fukui; X. Gu</i>
TS-87-2 (Ref. 294)	SWIMS (Hyperspectral Water Imaging & Monitoring System): A Hyperspectral Constellation Concept for Aquatic Ecosystems <i>Johan Leijtens (TNO, NETHERLANDS); A. Dekker; S. Peters</i>
TS-87-3 (Ref. 34)	Distribution of Arsenic in Water and Geomorphic Features in Purbasthali I & II Block of Burdwan District, West Bengal, India <i>Biplab Biswas (West Bengal State University, INDIA)</i>
TS-87-4 (Ref. 235)	Using Remote Sensing & GIS Techniques to Determine the Growth of Mid-River Islands in the Tigris River, Iraq (Sediment Pollution) <i>Omar Al-Jarrah (Applied Geology Dept, IRAQ)</i>
TS-87-5 (Ref. 526)	Assessing Toxic Algal Blooms in Reservoirs – A Case Study in Western Africa using PROBA1/CHRIS Hyperspectral Imagery <i>Timo Beiermann (TU Braunschweig, GERMANY)</i>

TS-88	11-E-2 MISSIONS, INSTRUMENTS, INFORMATION SYSTEMS AND DATA STANDARDS
1600 – 1730	Location 3 (Level 1) <i>Chair Simon Jones, RMIT University, AUSTRALIA</i>
TS-88-1 (Ref. 51)	Integrating Sphere Validation and Analysis <i>Adhwa Amir Tan (National Space Agency, MALAYSIA)</i>
TS-88-2 (Ref. 110)	Community Development and Maintenance in Three Earth Science Contexts <i>Carol Meyer (Federation of Earth Science Information Partners, USA)</i>
TS-88-3 (Ref. 486)	Geo-Processing in Cyberinfrastructure: Making the Web an Easy-to-Use Geospatial Computational Platform <i>George Percivall (Open Geospatial Consortium, USA)</i>
TS-88-4 (Ref. 559)	An Analysis of Polarization Coherence Tomography using Different Functional Expansion <i>Hong Zhang (Center for Earth Observation and Digital Earth, CHINA); P. Ma; C. Wang</i>
TS-88-5 (Ref. 648)	Towards Unifying NASA Earth Science Enterprise-Wide Metadata Around International Standards: Study Results and Recommendations <i>Siri Jodha Khalsa (University of Colorado, USA); S. Browdy; A. Mitchell</i>
TS-88-6 (Ref. 53)	e-Habitat: A Contribution to the Model Web for Habitat Assessments and Ecological Forecasting <i>Gregoire Dubois (Joint Research Centre of the European Commission, ITALY); J. Skoien; J. De Jesus; S. Peedell; A. Hartley; S. Nativi; M. Santoro; G. Geller</i>
TS-88-7 (Ref. 650)	COSMIC-2: The Future of Global Navigation Satellite System-Remote (WITHDRAWN SRO) Sensing <i>Peter Wilczynski (NOAA NESDIS, USA); K. Cook</i>
TS-88-8 (Ref. 193)	Operational Mapping Technology for Generating High-Level Semantic Geo-Information from New Satellite Sensors <i>Dragos Bratanu (Romanian Space Agency, ROMANIA); I. Nedelcu; M. Datcu</i>
TS-88-9 (Ref. 799)	<i>Optimization of Decision-Making for Spatial Sampling in the North China Plain, Based on Remote Sensing a priori Knowledge</i> <i>Jianzhong Fog (CAS, CHINA); L. Bai; S. Xu; S. Liu; X. Su; H. Hu</i>
TS-88-10 (Ref. 1163)	The Real Time GPS Tracking on the Image Satellite by using Geographical Information System Program <i>Sabah Hussein Ali (University of Mosul, IRAQ)</i>

<p>TS-88-11 (Ref. 809)</p>	<p>Santa Catarina State Floristic and Forest Inventory (IFFSC)—Sharing Data for Decision Support <i>Juliana Mio De Souza (EPAGRI, BRAZIL); S. Carrião; J. Miszinski; M. Pereira; E. Antunes</i></p>
<p>TS-88-12 (Ref. 863)</p>	<p>Environment Monitoring with Laser and Millimeter-Wave Supersensitive Measuring System <i>Yaroslav Savenko (Natl Tech Uni of Ukraine KPI, UKRAINE); V. Vodotovka; F. Repa</i></p>
<p>Closing</p>	<p>CLOSING CEREMONY</p>
<p>1730 – 1830</p>	<p>Parkside Auditorium <i>Co-Chair Alex Held, CSIRO, AUSTRALIA</i> <i>Co-Chair John Trinder, University of NSW, AUSTRALIA</i></p> <p>PRESENTATION OF AWARDS: BEST PAPERS Chuck Hutchinson, University of Arizona, USA</p> <p>PRESENTATION OF AWARDS: ISPRS Chen Jun, Secretary General, ISPRS</p> <p>PRESENTATIONS TO SPONSORS John Trinder, University of NSW, AUSTRALIA</p> <p>KEYNOTE: VISION FOR THE FUTURE Lawrence Friedl, NASA, USA</p> <p>INVITATION TO ISRSE 35, BEIJING Guo Huadong, Center For Earth Observation and Digital Earth, CAS, CHINA</p> <p>INVITATION TO XXII ISPRS CONGRESS, MELBOURNE Simon Jones, RMIT University, AUSTRALIA</p> <p>CLOSING REMARKS</p>

THURSDAY 14 APRIL 2011