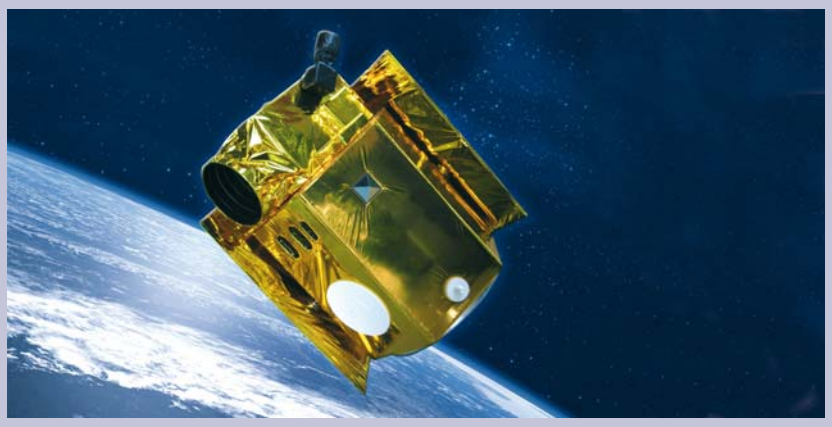
3rd INTERNATIONAL SYMPOSIUM

Programa / Programme



RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING

27 September-1 October 2010 TORRENT-SPAIN

AJUNTAMENT TORRENT

GOBIERNO DE ESPAÑA MINISTERIO DE CIENCIA E INNOVACIÓN

VNIVERSITAT DE VALÈNCIA

WMO

IPL IMAGE PROCESSING LABORATORY

GLOBAL CHANGE UNIT

GENERALITAT VALENCIANA CONSELLERIA D'EDUCACIÓ

l'Auditori TORRENT

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NASA

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TOPICS

We are pleased to welcome you to the third International Symposium on Recent Advances in Quantitative Remote Sensing, which will be held in Torrent (Valencia), Spain, on 27 September to 1 October 2010. The symposium addresses the scientific advances in connection with real applications, its main goal being to assess the state of the art of both theory and applications in the analysis of Remote Sensing data. This symposium should greatly contribute to define common research priorities. The symposium will offer a unique framework for socializing and interacting with members of the international remote sensing community, at the same time enjoying a stay in Valencia. Papers deal in general with recent advances and applications of the different techniques and research methods used in remote sensing and in particular cover the following topics:

Land surface radiation and inversion modelling
Multispectral Remote Sensing and Imaging Spectroscop
Multiangular and Multitemporal measurements
Scaling, Fusion, reduction and assimilation of data
Carbon and Water cycle observation and modelling
Land cover/use and change
Global change and sustainable development
Sensor calibration, atmospheric correction, and product validation
Passive microwaves & SAR data processing/ applications
Laser active remote sensing and fluorescence
Earth Observation Missions & Services

ORGANIZATION

The symposium is organized to encourage and exchange ideas and discussions. It will include oral sessions and poster sessions. The conferences will last 20 min including discussions. These sessions are dedicated to state of the art syntheses, to papers which describe new scientific breakthroughs of interest to a wide audience or which are based on an original approach of one of the scientific topics selected for the symposium. The poster session will present the description of the main results obtained and/or approaches used. Each poster session will comprise of about 54 papers and will last 1:30 h. The symposium will end with a general concluding session, prepared by the chairpersons of each session. The concluding statements will emphasize the key points of the representations and outline trends in the future research programs.

TORRENT-TIMETABLE September 27 to October 1, 2010

Time	Monday 27th Sep 2010	Tuesday 28th Sep 2010	Wednesday 29th Sep 2010	Thursday 30th Sep 2010	Friday 1st Oct 2010
8:00-9:00	REGISTRATION (8:00-9:30)				
9:00-9:30		ORAL SESSION 4	ORAL SESSION 8	ORAL SESSION 12	
9:30-10:00	OPENING SESSION				
10:00-10:30	OPENING CONFERENCE				SESSION REPORT BY SESSIONS CHAIRPERSONS
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00-11:30	ORAL SESSION 1	ORAL SESSION 5	ORAL SESSION 9	ORAL SESSION 13	
11:30-12:00					
12:00-12:30	POSTER SESSION 1	POSTER SESSION 2	POSTER SESSION 3	POSTER SESSION 4	CLOSING CEREMONY
12:30-13:00					Refreshment & Snacks
13:00-13:30					
13:30-14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
14:00-14:30					
14:30-15:00					
15:00-15:30	ORAL SESSION 2	ORAL SESSION 6	ORAL SESSION 10	ORAL SESSION 14	
15:30-16:00					
16:00-16:30					
16:30-17:00				CLOSING CONFERENCE	
17:00-17:30	Coffee Break	Coffee Break	Coffee Break		
17:30-18:00	ORAL SESSION 3	ORAL SESSION 7	ORAL SESSION 11		
18:00-18:30					
18:30-19:00	INVITED CONFERENCE				
19:00-19:30	WELCOME RECEPTION (19:00-21:00)	DINNER (19:00-22:00)			
19:30-20:00					
20:00-20:30					
20:30-21:00				GALA DINNER (20:30-24:00)	
21:00-22:00					
22:00-23:00					
23:00-24:00					

PROGRAMA RESUMIDO/PROGRAMME OVERVIEW

LUNES 27 SEPTIEMBRE 2010- MONDAY 27th SEPTEMBER 2010	
8:00-9:30	Inscripción y entrega de documentación/Welcome and registration. AUDITORI de Torrent. C/Vicent Pallardó nº 25, 46900 TORRENT (Valencia).
9:30-10:00	Acto de apertura/Opening session
10:00-10:30	Conferencia de Apertura/Opening Conference
10:30-11:00	Pausa café/Coffee break
11:00-12:00	Sesión Oral/Oral session SESSION 1: Land Surface Radiation and Inversion Modelling Presidentes/Chairpersons: S. BRIGGS, J. MORENO
12:00-13:30	Sesión Poster/Poster session POSTER 1: - Land Surface Radiation and Inversion Modelling - Multispectral Remote Sensing and Imaging Spectroscopy
13:30-15:00	Pausa comida /Lunch break
15:00-17:00	Sesión oral/Oral session SESSION 2: - Land Surface Radiation and Inversion Modelling Presidentes/Chairpersons: A. GILLESPIE, F. PRATA
17:00-17:30	Pausa café/Coffee break
17:30-18:30	Sesión Oral/Oral session SESSION 3: - Land Surface Radiation and Inversion Modelling - Earth Observation Missions & Services Presidentes/Chairpersons: S. LIANG, E. VERMOTE
18:30-19:00	Conferencia Invitada/Invited Conference
19:00	Acto Social /Welcome Reception
MARTES 28 SEPTIEMBRE 2010-TUESDAY 28th SEPTEMBER 2010	
9:00-10:30	Sesión Oral/Oral session SESSION 4: - Multispectral Remote Sensing and Imaging Spectroscopy - Multiangular and Multitemporal Measurement Presidentes/Chairpersons: F. BARET, R. O. GREEN
10:30-11:00	Pausa café/Coffee Break
11:00-12:00	Sesión Oral/Oral session SESSION 5: - Multispectral Remote Sensing and Imaging Spectroscopy - Multiangular and Multitemporal Measurement Presidentes/Chairperson: A. ROYER, F. NERRY
12:00-13:30	Sesión Poster/Poster session POSTER 2: - Multiangular and Multitemporal Measurement - Scaling, Fusion, reduction and assimilation of data - Carbon and Water cycle observation and modelling
13:30-15:00	Pausa Comida /Lunch break
15:00-17:00	Sesión Oral/Oral session SESSION 6: - Carbon and Water Cycle Observation and Modelling - Earth Observation Missions & Services Presidentes/Chairperson: G. CHEHBOUNI, A. OLIOSO
17:00-17:30	Pausa café/Coffee break
17:30-19:00	Sesión Oral/Oral session SESSION 7: - Land cover/use and change Presidentes/Chairperson: G. GUTMAN, J. L. PRIVETTE
20:00	Cena y evento musical /Dinner and Musical Event

MIERCOLES 29 SEPTIEMBRE 2010-WEDNESDAY 29th SEPTEMBER 2010	
9:00-10:30	Sesión Oral/Oral session SESSION 8: - Land Cover/Use and Change - Global Change and sustainable development Presidentes/Chairpersons: J. P. WIGNERON, M. MENENTI
10:30-11:00	Pausa café/Coffee Break
11:00-12:00	Sesión Oral/Oral session SESSION 9: - Sensor Calibration, Atmospheric Correction and Product Validation Presidentes/Chairpersons: Z. SU, A. HUETE
12:00-13:30	Sesión Poster/Poster session POSTER 3: - Carbon and Water Cycle Observation and Modelling - Land Cover/Use and Change - Global Change and sustainable development
13:30-15:00	Pausa Comida /Lunch break
15:00-17:00	Sesión Oral/Oral session SESSION 10: - Sensor Calibration, Atmospheric Correction and Product Validation - Earth Observation Missions & Services Presidentes/Chairpersons: Z. L. LI, Y. YU
17:00-17:30	Pausa café/Coffee break
17:30-19:00	Sesión Oral/Oral session SESSION 11: - Earth Observation Missions & Services Presidentes/Chairpersons: E. ORIOL, M. RAST
19:00-20:00	Conferencia Pública/ Public Conference
JUEVES 30 SEPTIEMBRE 2010-THURSDAY 30th SEPTEMBER 2010	
9:00-10:30	Sesión Oral/Oral session SESSION 12: - Passive and active Microwaves & SAR Data Processing / Applications Presidente/Chairperson: S. QUEGAN, J. SHI
10:30-11:00	Pausa café/Coffee Break
11:00-12:00	Sesión Oral/Oral session SESSION 13: - Passive and active Microwaves & SAR Data Processing / Applications Presidentes/Chairpersons: Y. KERR, J, FONT
12:00-13:30	Sesión Poster/Poster session POSTER 4: - Sensor Calibration, Atmospheric Correction and Product Validation - Laser Active Remote Sensing and Fluorescence - Passive Microwaves & SAR Data Processing / Applications - Earth Observation Missions & Services
13:30-15:00	Pausa Comida /Lunch break
15:00-16:30	Sesión Oral/Oral session SESSION 14: - Laser Active Remote Sensing and Fluorescence Presidentes / Chairpersons: M. BERGER, P. J. ZARCO-TEJADA
16:40-17:10	Conferencia de Clausura/ Closing Conference
20:30	Cena oficial del congreso/Gala Dinner
VIERNES 1 OCTUBRE 2010- FRIDAY 1ST OCTOBER 2010	
10:00-12:00	Conclusiones de sesiones por los presidentes/ Session report by sessions chairpersons
12:00-12:30	Acto de clausura/Closing ceremony
12:30-13:00	Refrigerio/Refreshments & Snacks

LUNES 27 SEPTIEMBRE 2010 – *MONDAY 27th SEPTEMBER 2010*

8:00 – 9:30 **Inscripción y entrega de documentación / *Registration***

9:30 – 10:15 **Acto de apertura / *Opening session***

10:15 – 10:45 **Conferencia/ *Opening Conference***

The Progress of ESA's Earth Observing System
V. Liebig, ESA's Director of Earth Observation

10:45 – 11:15 **Pausa café / Coffee *break***

11:15 – 12:00 **Sesión Oral / *Oral session***
SESSION 1: Land Surface Radiation and Inversion Modelling
Presidentes / *Chairpersons*: S. Briggs, J. Moreno

S1.1 A terrestrial surface climate data record for global change studies
E. Vermote, University of Maryland at College Park, USA
C. Justice, I. Csiszar, J. Eidenshink, R. Mynemi, F. Baret, E. Masuoka, R. Wolfe

S1.2 How Powerful are Radiative Transfer Models of the Land Surface?. Applications and Challenges
H. Bach, VISTA Remote Sensing in Geosciences, Germany

12:00 – 13:30 **Sesión Poster / *Poster session***
SESSION 1: - Land Surface Radiation and Inversion Modelling
-Multispectral Remote Sensing and Imaging Spectroscopy
-Multiangular and Multitemporal Measurements

P1.01 Emissivity from thermal infrared hyperspectral data: application to Metop/IASI
N. Albalat, LSIIT, University of Strasbourg, France
C. Quentin, F. Nerry

P1.02 Modeling reflectance of partially submerged canopies
M. E. Beget, CNIA-INTA, Argentina
C. M. Di Bella, F. Baret, J. - F. Hanocq

P1.03 The impact of architectural detail on multi-angular and multi-spactral reflectance signatures of savanna environments
M. Béland, CARTEL, Canada
J.-L. Widlowski, M. Verstraete, R. A. Fournier

P1.04 Sky thermal radiometry for atmospheric ice particles monitoring in Artic
Y. Blanchard, University of Sherbrooke, Canada
A. Royer, N. O'Neill

P1.05 Approximating the average daily soil albedo with respect to soil surface roughness and latitude
J. Cierniewski, Institute of Physical Geography and Environmental Planning, Poland
A. Karnieli, K. Kusnierek, I. Herrmann

P1.06 Decoupling structural and biochemical controls on light scattering from vegetation
R. Fernandes, Canada Centre for Remote Sensing, Canada
K. Omari

P1.07 Aerosols characterization in the Western Mediterranean (Málaga, Spain)
I. Foyo-Moreno, University of Granada, Spain
I. Alados, H. Lyamani, F. J. Olmo, L. Alados-Arboledas

P1.08 A new method to obtain LST and LSE using radiative transfer and split-window models: Application to AATSR data
J. M. Galve, University of Valencia, Spain
C. Coll, E. Valor, V. Caselles, V. García-Santos, E. Caselles, M. Mira, M. Bisquert, C. Doña, E. Rubio

P1.09 Comparison of current methods to determine the downwelling atmospheric irradiance in the thermal infrared
V. García-Santos, University of Valencia, Spain
M. Mira, E. Valor, V. Caselles, C. Coll, J.M. Galve, L. Martinez

P1.10 Retrieval of vegetation water content at the leaf and canopy levels using the 3-5 µm band
F. Gerber, Université Paris Diderot, CNRS, France
R. Marion, A. Olioso, S. Jacquemoud

P1.11 Incomplete separation between temperature and emissivity in ASTER standard products AST08 and AST05
A. R. Gillespie, Dept Earth & Space Science, USA
E. Abbott, L. Gilson, G. Hulley, J. C. Jiménez-Muñoz, J. A. Sobrino

P1.12 Atmospheric heating rates related with the vertical distribution of aerosol single scattering albedo in a desert dust situation
J. L. Gómez-Amo, University of Valencia, Spain
A. di Sarra, D. Meloni, M. Cacciani, M. P. Utrillas, J. A. Martínez-Lozano

P1.13 Transformation of triangle primitives into turbid medium for simulating large vegetation landscapes with DART 3D model
E. Grau, Université de Toulouse, CESBIO, France
J. P. Gastellu-Etchegorry, J. Cros, N. Lauret, J. Rubio, J. L. Widlowski

P1.14 Evaluation of MODIS atmospheric profiles product for atmospheric correction in the thermal infrared domain
J. C. Jiménez-Muñoz, University of Valencia, Spain
J. A. Sobrino, C. Mattar, B. Franch, G. Sòria, V. Hidalgo, R. Oltra-Carrió, Y. Julien

P1.15 Vegetation radiative transfer modeling based on virtual flux decomposition
A. Kallel, Institut Préparatoire El Manar, Tunisie

P1.16 Surface temperature downscaling from low resolution thermal measurement based on the MAP criterion and Markov models
A. Kallel, Institut Préparatoire El Manar, Tunisie
C. Ottlé, S. Le Hégarat

P1.17 Estimating forest parameters from top-of-atmosphere multiangular radiance measurements using coupled radiative transfer models.
V.C.E. Laurent, Centre for Geo-Information, Wageningen University, The Netherlands
W. Verhoef, J.G.P.W. Clevers, M.E. Schaepman

P1.18 Aerial infrared thermography and thermal modelling for energy leaks mapping
V. Le Sant, Laboratoire National de Métrologie et d'Essais, France
J.-B. Henry, S. Pierrard, S. Lecadre, P. Ridoux

P1.19 Dorsiventral leaf and canopy model: development, validation and improvement analysis
J. Li, Laboratory of Remote Sensing Science, China
Q. Liu, Q. Liu

P1.20 Analysis of uncertainties in the estimation of vineyard biophysical variables from canopy reflectance using 3D architecture models
R. López-Lozano, INRA, UMR EMMAH, France
F. Baret, B. Tisseyre, E. Lebon, H. Poilvé, J. Rousseau

P1.21 Vegetation cover method emissivity dependencies on atmosphere and multispectral vegetation index
L. Martinez, Institut Cartogràfic de Catalunya (ICC), Spain
V. Caselles, E. Valor, F. Pérez, V. García-Santos

P1.22 The Far Infrared: Prospective of Remote Sensing Applications
O. Pancrati, National Institute of Optics (INO), Canada
J.-P. Blanchet, A. Royer

P1.23 Estimating scaled cloud optical thickness from SEVIRI by implementing a semi-analytical cloud retrieval algorithm
P. Pandey, VITO- Flemish Institute for Technological Research, Belgium
K. De Ridder, N. Van Lipzig

P1.24 Aerosol size distributions retrieved from star-photometry by King inversion method
D. Pérez-Ramírez, Centro Andaluz de Medio Ambiente, Spain
H. Lyamani, F. J. Olmo, F. Navas-Guzmán, L. Alados Arboledas

P1.25 Star photometer for aerosol characterization: Improvements on calibration procedures by Astronomic Langley
D. Pérez-Ramírez, Centro Andaluz de Medio Ambiente, Spain
H. Lyamani, F. J. Olmo, F. Navas-Guzmán, L. Alados Arboledas

P1.26 Proposal of a simple model for the characterization of aerosols in relation to the dominant air masses
S. Segura, Universidad de València, Facultad de Física, Spain
V. Estellés, M. P. Utrillas, A. R. Esteve, J. A. Martínez-Lozano

P1.27 Soil moisture retrieval from geostationary satellite data using combined daily evolution of surface temperature and net surface shortwave radiation
X. N. Song, Graduate University of Chinese Academy of Sciences, China
P. Leng, Z. L. Li, X. H. Li

P1.28 Estimate of snow cover for Tibet plateau region using MODIS data
B. Tang, Institute of Geographic Sciences and Natural Resources Research, China
B. Shrestha, Z. L. Li, G. Liu, H. Ouyang, G. D. Raj, A. Giriraj, A. K. San

P1.29 Consistency of vegetation estimates from SEVIRI/Meteosat observations and operational algorithms
A. Verger, University of Valencia, Spain
F. Baret, F.J. García-Haro, F. Camacho, J. Meliá

P1.30 Using validated 3D radiative transfer models to evaluate instantaneous FAPAR estimates in open-canopy forests
J. L. Widlowski, Joint Research Centre, Italy

P1.31 "RAMI4PILPS:Using ""credible"" 3-D MONTE CARLO models to assess the quality of shortwave radiative transfer formulations in land surface schemes"
J. L. Widlowski, Joint Research Centre, Italy
B. Pinty, M. Robustelli, M. Clerici, Y. Dai, M. De Kauwe, K. de Ridder, A. Kallel, H. Kobayashi, W. Ni-Meister, A. Olchev, T. Quaife, M. Taberner, M. M. Verstraete, S. Wang, W. Yang, Y. Yang, H. Yuan

P1.32 Improvements of the UL prototype land surface temperature product for AATSR
O. Zeller, University of Leicester, Dpt. Of Physics and Astronomy, United Kingdom
J. Remedios, A. J. Prata

P1.33 Estimation of surface soil moisture from combined solar shortwave radiation and surface temperature
X. Zhang, School of Environment and Resources, Shanxi University, Taiyuan, China
Z. L. Li

P1.34 Thermal Infrared Imaging of Weathering Changes of Mauna Ulu Basalts, Big Island, Hawaii
E. Abbott, Jet Propulsion Laboratory, USA
A. Gillespie

P1.35 Geological classification of Teide volcano products by hyperspectral and multispectral satellite data
S. Amici, Instituto Nazionale di Geofisica e Vulcanologia, Italy
A. Piscini, M. F. Buongiorno, D. Pieri

P1.36 Development of automated field spectrometric systems for vegetation monitoring
S. Cogliati, University of Milano-Bicocca, Italy
M. Meroni, M. Rossini, M. Migliavacca, A. Barducci, F. Castagnoli, R. Colombo

P1.37 Storage of Hyperspectral Sensor Images, Sources of Error and Footprint Analysis
A. Cristo, Escuela Politécnica de Cáceres, Spain
R. M. Pérez, P. Martínez, M. Koch, T. Schmid, L. M. Hernández, J. Carretero

P1.38 Discrimination of cruciferous weeds in wheat crops using Quickbird satellite imagery
A.I. de Castro, Instituto de Agricultura Sostenible IAS-CSIC, Spain
M. Jurado-Expósito, M.T. Gómez-Casero, D. Gómez-Candón, J.J. Caballero-Novella, F. López-Granados

P1.39 Determinación de la contaminación producto de la actividad minera, utilizando sensores de alta resolución espectral, en Huancavelica
M. Díaz Nuñez, CONIDA, Perú
Y. Loaiza Jordan, M. Miranda Peña, M. Caycho Bustamante

P1.40 Spectral characteristics of soil and vegetation in saline wetlands, NE Spain
M. Domínguez, CITA, Spain
B. Mougenot, C. Castañeda

P1.41 Using hyperspectral images to study regeneration of burnt areas
F. González-Alonso, CIFOR-INIA, Spain
M. Huesca, S. Merino de Miguel, S. Martínez, J. M. Cuevas, A. Calle

P1.42 The North American ASTER Land Surface Emissivity Database (NAALSED) V3.0
G. C. Hulley, Jet Propulsion Laboratory, USA
S. J. Hook

P1.43 Noise on emissivity images obtained from Temperature and Emissivity Separation algorithm: case study of airborne imagery and implications for ASTER
J. C. Jiménez-Muñoz, University of Valencia, Spain
J. A. Sobrino, A. Gillespie,

P1.44 Independent Component Analysis application to multispectral sensors
F. J. Mesas-Carrascosa, University of Córdoba, Spain
I.L. Castillejo-González, A. García-Ferrer Porras, M. Sánchez de la Orden

P1.45 Preliminary Applications of a Land Surface Temperature Retrieval Method to Hyperspectral Thermal data-IASI
X. OuYang, Chinese Academy of Sciences, China
Z. L. Li

P1.46 Operational cloud masking scheme for marine AHS and CASI imagery
I. Pérez González, INTA, Spain
E. de Miguel Llanes, C. Robles González, J.A. Gómez Sánchez

P1.47 Spatial and Temporal VIS/SWIR/TIR Spectral Variability of Natural Desert Surfaces
D.E. Jr. Sabol, Desert Research Institute, USA
F.A. Kruse, Z. Aslett, T. Minor, C. Kratt, J. Taranik, T. Morkin

P1.48 Application of imaging spectroscopy to map indicator plant species for wetland degradation in the National Park of Las Tablas de Daimiel, Spain
T. Schmid, CIEMAT, Spain
H. Feilhauer, U. Faude, S. Schmidtlein, S. Cirujano, R. Sánchez, M.J. Sierra, M. rodríguez, S. Sánchez

P1.49 Sensitivities of thermal IR spectral emissivity retrievals from ground -based measurements
L. Balick, Los Alamos National Laboratory, USA
H. Fry, A. Gillespie, M. Howard, H. Gledhill

P1.50 Study of air temperature and land surface temperature differences from MODIS and ground data
R. Niclòs, Fundación CEAM, Spain
J. A. Valiente, M. J. Barberá, M. J. Estrela

P1.51 Validation of split windo algorithms for the estimation of sea surface temperature, on the coast of the north of Chile
J. C. Parra, Universidad de la Frontera, Temuco, Chile
L. Morales, J. A. Sobrino, J. Romero

13:30 – 15:00 **Pausa Comida / *Lunch break***

15:00 – 17:00 **Sesión Oral / *Oral session***

SESSION 2: Land Surface Radiation and Inversion Modelling

Presidentes/ *Chairpersons*: A. GILLESPIE, F. PRATA

S2.1 Chinese project entitled "generation and application of global products of essential land variables". Algorithm overview
S. Liang, University of Maryland, USA

S2.2 Coupled retrieval of global surface and atmospheric products from ENVISAT/MERIS data over land
L. Guanter, Freie Universitaet Berlin, Germany
R. Lindstrot, R. Preusker, J. Fischer

S2.3 Compensation for sub-pixel roughness effects in thermal-infrared images
I. Danilina, University of Washington, USA
A. Gillespie, L. Balick, A. Mushkin, M. Smith, D. Blumberg

S2.4 Remote sensing of aerosols in urban areas: sun/shadow retrieval procedure from airborne very high spatial resolution images
C. Thomas, Onera, Toulouse, France
X. Briottet, R. Santer, S. Lacherade, S. Mathieu

S2.5 Field measurements and modelling of diurnal cycles of land surface temperature at Gobabeb, Namibia
F.-M. Göttsche, Karlsruhe Institute of Technology (KIT), Germany
F.S. Olesen, A. Bork

S2. 6 The characteristics and utilities of the RIMA-AERONET network
V. Cachorro, University of Valladolid, Spain
A. Berjón, C. Toledano, A. de Frutos, D. Fuertes, R. González, B. Torres, R. Rodrigo, Y. Bennouna

17:00 – 17:30 **Pausa café / *Coffee break***

17:30 – 18:30 **Sesión Oral / *Oral session***

SESSION 3: - Land Surface Radiation and Inversion Modelling
- Earth Observation Missions & Services

Presidentes/ *Chairpersons*: S. LIANG, E. VERMOTE

S3.1 Retriving Cloud Properties over Snow and Ice Surface
P. Minnis, NASA Langley Research Center, USA
W. L. Smith Jr., R. Palikonda, S. Sun-Marck, Y. Chen, C. Fleeger, R. F. Arduini, D. A. Spangenberg, S. Bedka, G. Hong, P. W. Heck, D. J. Serke, A. L. Reehorst

S3.2 Measurements of spectral emissivity of basaltic melts in the SWIR range
V. Lombardo, Instituto Nazionale di Geofisica e Vulcanologia, Italy
C. Spinetti, M. F. Buongiorno

S3.3 A new multispectral thermal infrared imaging camera for use in studies of the land surface and atmospheric boundary layer
F. Prata, Norwegian Institute for Air Research, Norway
K. Stebel

18:30 – 19:00 **Conferencia invitada/*invited Conference***

ESA'S sentinel Missions- New Opportunities for Science: Implementation Strategy for the Scientific Exploitation of the Sentinel Missions
M. Berger, ESA/ESRIN, Italy

19:00-21:00 **Acto Social / *Welcome Reception***

MARTES 28 SEPTIEMBRE 2010 – *TUESDAY 28th SEPTEMBER 2010*

9:00 – 10:30 **Sesión Oral / *Oral session***
SESSION 4: - Multispectral Remote Sensing and Imaging Spectroscopy
- Multiangular and Multitemporal Measurement
Presidentes/*Chairpersons*: F. BARET, R. O. GREEN

S4.1 Quantitative advances enabled in climate modeling with the imaging spectroscopy measurements of the NASA decadal survey HyspIRI Mission
R. O. Green, Jet Propulsion Laboratory, USA

S4.2 Consistent and accurate LAI, FAPAR and FCOVER global products: principles and evaluation of GEOLAND2 products
F. Baret, INRA-EMMAH UMR 1114, France
M. Weiss, R. Lacaze, F. Camacho-decoca, P. Pacholcyzk, B. Smets

S4.3 Decomposition of multiangular reflectance
M. Môttus, University of Helsinki, Finland
M. Rautiainen

S4.4 Modelling air temperature via assimilation of satellite derived surface temperature within the Urban Heat Island project
K. De Ridder, VITO, Belgium
B. Maiheu, P. Manunta, M. Viel, G. Ceriola, I. A. Daglis, I. Keramitsoglou, T. Giannaros, D. Melas, E. Montero Herrero, M. Palacios, M. Tamame, A. Radius, T. Sapage, H. Tambuyzer, M. Paganini

10:30 – 11:00 **Pausa café / *Coffee break***

11:00 – 12:00 **Sesión Oral / *Oral session***

SESSION 5: - Multiangular and Multitemporal Measurement
- Carbon and Water cycle observation and modelling
- Earth Observation Missions & Services

Presidentes / *Chairpersons*: F. NERRY, A. ROYER

S5.1 The VENuS mission and the benefits of earth observation with high spatial and temporal resolutions
G. Dedieu, CESBIO, France
O. Hagolle, M. Huc, M. Claverie, D. Courault, V. Debaecker, J.-F. Dejoux, V. Demarez, B. Duchemin, D. Ducrot, P. Ferrier, J. Inglada, A. Karnieli, L. Kergoat, C. Marais-Sicre, B. Mougenot, E. Mougin, V. Rivalland, Y. Yaniv

S5.2 Multi temporal methods for cloud detection and atmospheric correction for Venus and Sentinel 2, validated with Formosat 2 and Landsat 5 & 7
O. Hagolle, CNES/CESBIO, France
M. Huc, D. Villa-Pascual, G. Dedieu

S5.3 Assessment of evapotranspiration and biomass of irrigated grasslands in South Eastern France form Formosat 2 images used in a crop model
D. Courault, INRA UMR 114 EMMAH, France
R. Hadria, F. Ruget, A. Olioso, B. Duchemin, O. Hagolle, G. Dedieu

12:00 – 13:30 **Sesión Poster / *Poster session***

SESSION 2: - Multispectral Remote Sensing and Imaging Spectroscopy
- Multiangular and Multitemporal Measurement
- Scaling,Fusion, reduction and assimilation of data
- Carbon and Water cycle observation and modelling

P2.01 Testing In-scene atmospheric corrections of hyperspectral thermal data from Nadir and oblique looking geometries
M. R. Smith, University of Washington, USA
A. R. Gillespie, L. K. Balick, J. C. Jiménez-Muñoz, J. A. Sobrino

P2.02 Volcanic carbon dioxide retrieved by means hyperspectral remote sensing
C. Spinetti, Istituito Nazionale di Geofisica e Vulcanologia, Italy
F. Buongiorno

P2.03 Analysis of temporal evolution of chlorophyll content by NAOC index with CHRIS-PROBA images in Barrax area.
J. V. Talens, University of Valencia, Spain
M. P. Cendrero, L. Alonso, J. Delegido, J. Verrelst, J. Moreno

P2.04 Standoff gas identification and absolute quantification from turbulent stack plumes with an imaging Fourier-transform spectrometer
P. Tremblay, Université Laval, Canada
P. Lagueux, S. Savary, A. Villemaire, M. Chamberland, V. Farley

P2.05 Mapping biochemical and structural vegetation properties in river floodplain and agricultural ecosystems using CHRIS-PROBA data
J. Verrelst, University of Valencia, Spain
E. Romijn, L. Kooistra, L. Alonso, J. Moreno

P2.06 Retrieval of atmospheric and land surface parameters using neural network technique from the satellite based thermal infrared hyperspectral data
N. Wang, Chinese Academy of Sciences, China
B. H. Tang, Z. L. Li

P2.07 Use of FORMOSAT-2 time series over the Sahel
Y. Auda, Laboratoire des Mécanismes et Transferts en Géologie (LMTG), France
V. Demarez, M. Grippa, O. Hagolle, P. Hiernaux, M. Huc, L. Kergoat, V. Le Dantec, E. Mougin, F. Timouk

P2.08 Comparison of Formosat and Landsat TM imagery over the Barrax area
A. Calera, Regional Development Institute (IDR), Spain
I. Campos, J. González-Piqueras

P2.09 Applying VENuS bands for agriculture
I. Herrmann, Ben Gurion University of the Negev, Israel
A. Pimstein, A. Karnieli, D. J. Bonfil, Y. Cohen, V. Alchanatis

P2.10 Multi temporal methods for cloud and shadow detections for high resolution optical images
M. Huc, CESBIO/CNES, France
O. Hagolle, D. Villa-Pascual, G. Dedieu

P2.11 Assessment of the land cover classification accuracy of Venus image time series with respect to Formosat-2
J. Inglada, CESBIO, France
O. Hagolle, G. Dedieu

P2.12 Use of dense time series of high resolution optical and radar images for change detection and land use classification
J. Inglada, CNES, France
J. F. Dejoux, C. Marais-Sicre, M. Huc, O. Hagolle, F. Baup, G. Dedieu, D. Ducrot

P2.13 VENuS (Vegetation and Environment Monitoring on a New Micro Satellite)
P. Ferrier, CNES, France
B. Fougnie, O. Hagolle, P. Crebassol, G. Dedieu

P2.14 Exploring the potential of crop specific green area index time series to improve yield estimation at regional scale
G. Duveiller, Earth and Life Institute, Université Catholique de Louvain, Belgium
L. Kouadio, B. Djaby, A. de Wit, B. Tychon, P. Deforuny

P2.15 Quantitative remote sensing with off-the-shelf instruments on a small UAV
U. Kirchgaessner, University of Stuttgart, Germany
U. Putze, M. von Schoenermark

P2.16 Potential of multidirectional spectral data collected with a digital aerial frame camera to retrieve forest canopy characteristics
T. Koukal, BOKU - University of Natural Resources and Applied Life Sciences, Austria
W. Schneider

P2.17 Modelling thermal infrared directional anisotropy over forest areas
M. Mira, INRA, France
J.-P. Lagouarde, C. Moisy, D. Guyon, J. Ogée, P. Moreau

P2.18 Seasonality of leaf area index in a boreal forest
M. Rautiainen, University of Helsinki, Finland
J. Heiskanen

P2.19 A new 1989-2009 global precipitation dataset for land surface modelling applications
G. Balsamo, ECMWF, United Kingdom
S. Boussetta, P. López, L. Ferranti

P2.20 Coupling of a Limited Area Atmospheric Model with a sequential MSG-derived LST Assimilation scheme for the production of a two-years meteorological dataset
L. Campo, Università di Firenze, Italy
F. Castelli

P2.21 Application of the Maximum Cross-Correlation technique to sequential thermal imagery in order to determine surface velocities and offshore transport in the Cape Blanc region
P. Castellanos, Institut de Ciències del Mar, CSIC, Spain
J. L. Pelegrí, D. Baldwin, W. J. Emery, A. Hernández-Guerra

P2.22 Multisensor and multitemporal image fusion methods to improve remote sensing image classification
D. Ducrot, CESBIO, France
A. Massé, C. Marais-Sicre, J. F. Dejoux

P2.23 A multi-sensor approach to land surface temperature
S. C. Freitas, Instituto de meteorologia, Portugal
I. F. Trigo, J. Macedo, C. Barroso, R. Silva

P2.24 The Quantitative Remote Sensing Tools in ORFEO Toolbox
J. Inglada, CESBIO, France
M. Grizonnet, E. Chistophe, J. Michel

P2.25 Automatic detection of field furrows and features from IKONOS high resolution data
S. Le Hégarat-Mascle, Université Paris Sud, France
C. Ottlé

P2.26 Contribution of high resolution satellite imagery to water erosion prediction in the Plava watershed (Russia)
C. Ottlé, LSCE-IPSL, France
O. Evrard, S. LeHégérat, V. Belyaev

P2.27 New Hyperspectral Unmixing Techniques in the Framework of the Earth Observation Optical Data Calibration and Information Extraction (EODIX) Project
I. Molina, Universidad Politécnica de Madrid, Spain
A. Arquero, E. Martínez, R. Martínez

P2.28 New Hyperspectral Unmixing Techniques in the Framework of the Earth Observation Optical Data Calibration and Information Extraction (EODIX) Project
A. Plaza, Hyperspectral Computing Laboratory, Spain
J. Plaza, G. Martín, S. Sánchez

P2.29 Leaf Area Index mapping of an agricultural region in the Texas High Plains using MODIS, Landsat, RapidEye and aircraft image products
N. Rajan, Texas Tech University, USA
P. H. Gowda, M. Baddock, S. J. Maas, F. M. Padilla

P2.30 Assimilation of remote sensing data in a Soil-Vegetation-Atmosphere Transfer model
M.-E. Ridler, University of Copenhagen., Denmark
H. Madsen, I. Sandholt

P2.31 Air temperature mapping using ground and satellite data in the context of a heat-wave monitoring and warning system in the Valencia region
J. A. Valiente, Fundación CEAM, Spain
R. Niclòs, M. J. Barberá, M. J. Estrela

P2.32 Fusion of MODIS and VEGETATION observations for improved consistency and continuity of LAI product time series
A. Verger, University of Valencia, Spain
F. Baret, M. Weiss

P2.33 Integrating multi-source data into land surface model for an improved atate-parameter analysis through data assimilation
K. Wang, Institute of Geographical Sciences and Natural Resources Research, China
Z.L. Li

P2.34 Analysis of temperature maps of coastal waters and of watercourses obatined from ASTER TIR images
F. Despini, University of Modena and Reggio Emilia, Italy
S. Teggi

P2.35 Retrieving crop specific green area index from remote sensing data when the spatial resolution is close to the target field size.
G. Duveiller, Earth and Life Institute, Université Catholique de Louvain, Belgium
M. Weiss, F. Baret, A. de Wit, P. Deforuny

P2.36 Land surface heterogeneity and appropriate spatial resolution of Remote Sensing Imagery
C. Li, Academy of Opto-Electronics, Chinese Academy of Sciences, China
X. Wang, L. Ma, S. Qiu

P2.37 Surface temperature downscalling from low resolution (kilometric) thermal infrared measurements
H. Mallat, LSCE-IPSL, France
C. Ottlé, S. LeHégérat, A. Kallel

P2.38 Evaluation of object-based features for cropland classification using decision tree models
J. M. Peña-Barragán, University of California, USA
M. K. Ngugi, R. E. Plant, J. Six

P2.39 The effect of spatial resolution in remote sensing of water stress using optical and thermal imagery
L. Suárez, RLS, Switzerland
P. J. Zarco-Tejada, J. A. J. Berni, V. González-Dugo, E. Fereres, D. Goldhamer

P2.40 Spatial scaling in the remote sensing retrieval
H. Wu, Chinese Academy of Sciences, China
B.H. Tang, Z.L. Li

P2.41 Monitoring evapotranspiration over homogeneous ecosystems using simple energy budget models and high temporal resolution thermal infrared data. Comparison of temperated and semi-arid agricultural areas case studies.
G. Bigeard, CESBIO UMR 5126, France
B. Coudert, L. jarlan, J. F. Dejoux, P. Keravec, J. Ezzahar, M. Claverie, V. Demarez, G. Boulet, J. Chirouze

P2.42 A new empirical expression to relate aerodynamic and surface temperatures for use within single-source energy balance models
G. Boulet, CESBIO, France
P. Béziat, V. Rivalland, J. Chirouze, E. Ceschia, G. Dedieu, G. Chehbouni

P2.43 Relation between carbon monoxide, derived from MOPITT and SCHIAMACHY, and large fires emissions
A. Calle, University of Valladolid, Spain
J. L. Casanova, J. Sanz, P. Salvador, F González-Alonso

P2.44 Using MODIS-LAI images on the spatio-temporal functioning of a Mediterranean forest in Tunisia: impact on water budget estimations
H. Chakroun, Laboratory of Hydraulics and Environment Modelisation, Tunisie
F. Mouillot, M.N. Rejeb, Y. Sfaxi

P2.45 Application of canopy radiant temperature in the estimation of gross primary productivity
L. Chen, IRSA, China
J. Yan, Y. Gao, H. Tao

P2.46 Performance assessment of four surface energy budget models, forced with in-situ and ASTER surface temperature, against eddycovariance and scintillometer data in temperature and semi-arid regions
J. Chirouze, CESBIO, France
G. Boulet, P. Béziat, L. Jarlan, R. Fieuzal, J. Garatuza-Payan, C. Watts, J.C. Rodríguez, J. Ezzahar, S. Er-raki, G. Chehbouni

P2.47 Derivation of Leaf Area Index from high spatial resolution high temporal frequency optical data: Impact on simulations of crop biomass and evapotranspiration
M. Claverie, CESBIO, France
V. Demarez, B. Duchemin, M. Weiss, O. Hagolle, F. Baret, P. Keravec, E. Ceschia, G. Dedieu

P2.48 Land surface temperature representativeness and its relationship with soil moisture through an energy water balance model
C. Corbari, Politecnico di Milano, Italy
J. A. Sobrino, M. Mancini, V. Hidalgo

P2.49 Modelling aspects for a regional soil moisture product of the Netherlands
J. de Vries, KNMI, The Netherlands

P2.50 A simple approach for monitoring crop production: Evaluation for different crops in semi-arid and temperature climate
B. Duchemin, CESBIO, France
M. Claverie, R. Fieuzal, R. Hadria, I. Benhadj, M. Shabou, S. Er-Raki, V. Demarez, O. Hagolle, M. Zribi, S. Khabba, Z. L. Chaabane, A. Olioso, J. Garatuza-Payan, A. Chehbouni

P2.51 Using multispectral vegetation index for estimating crop water requirements of Table grapes in semi-arid region of Northwest Mexico
S. Er-Raki, FSSM-Faculté des Sciences Semlalia Marrakech, Morocco
J.C. Rodriguez, J.P. Garatuza, C.J. Watts, A. Chehbouni

13:30 – 15:00 **Pausa Comida / *Lunch break***

15:00 – 17:00 **Sesión Oral / *Oral session***
SESSION 6: - Carbon and Water Cycle Observation and Modelling
- Earth Observation Missions & Services
Presidentes/*Chairpersons*: G. CHEHBOUNI, A. OLIOSO

S6.1 Mapping hydric status within a Mediterranean vineyard region: implication for validation, modeling and characterization of soil properties
F. Jacob, INRA, UMR LISAH, France
P. Lagacherie, L. Prévot, M. Galleguillos, J. Taylor.

S6.2 Monitoring soil and vegetation fluxes of carbon and water at the global scale: the land carbon core information service of GEOLAND2
J.-C. Calvet, CNRM-GAME (Meteo-France), France
G. Balsamo, M. Balzarolo, A. Barbu, A. Cescatti, F. Chevallier, N. Delbart, J. de Vries, A.-L. Gibelin, A. Horanyi, L. Kullman, S. Lafont, J.-F. Mahfouf, F. Maignan, D. Papale, G. Seufert,

S6.3 Impact of satellite-derived Leaf Area Index monthly climatology in a global Numerical Weather Prediction model
S. Boussetta, ECMWF, United Kingdom
G. Balsamo

S6.4 LAI remote sensing products and simulated LAI: an intercomparison over France
S. Lafont, CNRM-GAME (Meteo-France), France
Y. Zhao, M. Weiss, J.-C. Calvet

S6.5 Geoland2 - Towards an operational GMES Land Monitoring Core Service First results of the biogeophysical parameter core mapping service
R. Lacaze, HYGEOS, France
G. Balsamo, F. Baret, J.-C. Calvet, F. Camacho, R. D'Andrimont, P. Pacholczyk, H. Poilvé, B. Smets, K. Tansey, I. Trigo, W. Wagner

S6.6 PROBA-V, a satellite for the continuity of SPOT/VEGETATION Mission
A. Lobo, Institut de Ciències de la Terra "Jaume Almera", Spain
P. Maisongrande, G. Saint, R. Kleihorst, K. Mellab, P. de Fourny, E. Gonthier, J. Vandenabeele, J.P. Malingreau

17:00 – 17:30 **Pausa café / *Coffee break***
17:30 – 19:00 **Sesión Oral / *Oral session***
SESSION 7: - Land cover/use and change
Presidentes/*Chairpersons*: G. GUTMAN, J. L. PRIVETTE

S7.1 Amazon forests did not green-up during the 2005 drought
R. B. Myneni, Boston University, USA
A. Samanta, S. Ganguly, H. Hashimoto, S. Devadiga, E. Vermote, Y. Knyazikhin, R. R. Nemani

S7.2 Use of NDVI and Land Surface Temperature for Drought Assessment
A. Karnieli, Ben Gurion University of the Negev, Israel
N. Agam, R.T. Pinker, M. Anderson, M.L. Imhoff, G.G. Gutman

S7.3 FAPAR over Europe for the past 28 years: A temporally consistent product derived from AVHRR and VEGETATION Sensors
M. Weiss, INRA-EMMAH, France
F. Baret, H. Erens, E. Swinnen

S7.4 Seasonal and interannual vegetation dynamics over Morocco through the NDVI/AVHRR from 1982 to 2008: linkages with climate signals and potential for yields seasonal prediction
L. Jarlan, IRD/ Centre d'Etudes Spatiales de la Biosphere, France
B. Duchemin, J. Abaoui, S. Mangiarotti, F. Driouech, Y.M. Tourre, M. Le Page, H. Kharrou, A. Ouldbba, A. Mokssit, G. Chehbouni

19:00 – 21:00 **Cena / *Dinner***
21:00 – 23:00 **Acto Social / *Musical event***

MIÉRCOLES 29 SEPTIEMBRE 2010 – *WEDNESDAY 29th SEPTEMBER 2010*

9:00 – 10:30 **Sesión Oral / *Oral session***
SESSION 8: - Land Cover/Use and Change
- Global Change and sustainable development
- Earth Observation Missions & Services
Presidentes / *Chairpersons*: J. P. WIGNERON, M. MENENTI

S8.1 NOAA´s New Climate Data Record Initiative
J. Privette, National Climate Data Center, USA
J. J. Bates, E. Kearns, T. Karl

S8.2 Global trends in vegetation dynamics: lessons learnt from 25 years of Earth Observation from space
A. Govind, INRA, France
J. Kathilankal, J. Kumari, J.P. Wigneron, D. Guyon

S8.3 Long term observations of active volcanoes: Orbital missions and growing remote sensing archives
D. Pieri, Jet Propulsion Laboratory, USA
M. F. Buongiorno

S8.4 MISTIGRI, a microsatellite project associating high spatial resolution and high revisit frequency in the Thermal InfraRed
J. P. Lagouarde, UR 1263 EPHYSE, INRA, France
M. Bach, G. Boulet, X. Briottet, S. Cherchali, B. Coudert, G. Dedieu, Ph. Gamet, O. Hagolle, F. Jacob, F. Nerry, A. Olioso, C. Ottlé, V. Pascal, J.-L. Roujean, J. A. Sobrino, F. Tintó García-Moreno

10:30 – 11:00 **Pausa café / *Coffee break***

MIÉRCOLES 29 SEPTIEMBRE 2010 – *WEDNESDAY 29th SEPTEMBER 2010*

11:00 – 12:00 **Sesión Oral / *Oral session***
SESSION 9: -Sensor Calibration, Atmospheric Correction and Product Validation
Presidentes / *Chairpersons*: Z. SU, A. HUETE

S9.1 Validating Satellite Land Surface Temperature Product using Ground Tower Data
Y. Yu, Center for Satellite Aplications and Research, NOAA/NESDIS, USA
J.L. Privette, M. Chen

S9.2 Landsat-7 ETM+ Thermal band
J. A. Barsi, NASA/GSFC, USA
B. L. Markham, J. R. Schott, S. J. Hook, N. G. Raqueno

S9.3 Monitoring the spectral accuracy of AHS images
E. de Miguel, INTA, Spain
R. Rodríguez, O. Gutiérrez de la Cámara

12:00 – 13:30 **Sesión Poster / *Poster session***
SESSION 3: - Carbon and Water Cycle Observation and Modelling
- Land Cover/Use and Change
-Global Change and sustainable development

P3.01 Estimation of crops biomass and evapotranspiration from FORMOSAT-2 time series data
M. Claverie, Centre d'Etudes Spatiales de la Biosphère (CESBIO), France
V. Demarez, B. Duchemin, O. Hagolle, J.-F. Dejoux, D. Ducrot, P. Béziat, R. Fieuzal, P. Keravec, E. Ceschia, G. Dedieu

P3.02 Spatializing vineyard hydric status within heterogeneous Mediterranean watershed from high spatial resolution optical remote sensing.
M. Galleguillos, INRA, UMR LISAH, France
F. Jacob, L. Prévot, P. Lagacherie

P3.03 Relationship of water fluxes and rainfall variability for different vegetation types in the Doñana Region (SW Spain)
M. García, Estación Biológica de Doñana, CSIC, Spain
N. Fernández, M. P. González-Dugo, M. Delibes

P3.04 A remote sensing study of forests to estimate biophysical indicators and monitor CO2 fluxes in Spain: the ARTEMIS project
M.A. Gilabert, University of Valencia, Spain
F. Maselli, B. Martínez, A. Moreno, M. Chiesi, F.J. García-Haro, J. Meliá, A. Pérez-Hoyos, A. Verger

P3.05 Global evapotranspiration for the 1981-2001 period from PAL database
V. Hidalgo, Image Processing Laboratory, University of Valencia, Spain
J. A. Sobrino, B. Franch, Y. Julien, J. C. Jiménez-Muñoz, G. Sòria, R. Oltra-Carrió, C. Mattar, J. Cuenca, N. Sabater, P. Amblar, M. Brines-Perez

P3.06 Multi-scale estimation of vegetation and soil moisture in a Mediterranean wooded grassland (dehesa) using optical sensors
G. Mendiguren, Instituto de Economía, Geografía y demografía (IEGD), CSIC, Spain
M. P. Martín, D. Riaño, F. J. Martínez, J. Pacheco, L. Vilar

P3.07 Photosynthetically active radiation (PAR) daily images to estimate carbon fluxes at regional scale. A case study in Spain
A. Moreno, University of Valencia, Spain
M. A. Gilabert, B. Martínez

P3.08 Optical and thermal multiangular measurements for the estimation of evapotranspiration on an eddy covariance flux tower
H. Nieto, University of Copenhagen, Denmark
I. Sandholt, M. Herbst, R. Ringgaard, T. Friborg

P3.09 Selection of anchor pixels using Red versus Near-Infrared band scatter plots from Landsat TM for estimating evapotranspiration using METRIC
N. Rajan, Texas Tech University, USA
P. H. Gowda, S. Basu, S. J. Maas, F. M. Padilla

P3.10 Adaptation of the Priestley-Taylor equation for its use with MODIS data: Application to the Argentinean Pampas plains
R. Rivas, Instituto de Hidrología de Llanuras, Argentina
F. Carmona

P3.11 Remote sensing-based evapotranspiration estimates under semi-arid conditions. Comparing METRIC, MSSEBS, STSEB and HidroMORE
E. Rubio, Regional Development Institute, Universidad de Castilla-La Mancha, Spain
R. Allen, A. Calera, V. Caselles, J. Colin, A. Jochum, M. Menenti, J.M. Sánchez, M. Tasumi, E. Torres, R. Trezza

P3.12 Evapotranspiration assessed by different spatial resolution remote sensing data in a crop monitoring perspective
G. Sepulcre, Royal Meteorological Institute, Belgium
F. Gellens-Meulenberghs, A. Arboleda, G. Duveiller, I. Piccard, A. de Wit, D. Bakary, P. Defourny

P3.13 A reappraisal of effective roughness and canopy flow models in estimation of turbulent heat fluxes using thermal remote sensing data- an analysis in the framework of the Surface Energy Balance System (SEBS)
Z. Su, University of Twente, The Netherlands
A. Ershadi, R. Van Der Velde, J. Timmermans, X. Chen

P3.14 An intercomparison of three remote sensing based energy balance models for evapotranspiration estimation against Large Aperture Scintillometer measurements over a wheat.corn production region
R. Tang, Chinese Academy of Sciences, China
Z.-L. Li, Y. Jia, X. Sun, J. Lou

P3.15 Modelling soil and watertable depths using multi-temporal ASTER imagery
J. Taylor, INRA, UMR LISAH, France
M. Galleguillos, N. Guix, F. Jacob, L. Prévot, P. Lagacherie

P3.16 Assessing atmospheric CO2 dynamics through a multisensor and multiscale synergistic approach in a transect along the 42 ºN parallel over the Iberian Peninsula
M. Tello, Institut Català de Ciéncies del Clima, Spain
R. Curcoll, A. Font, J. A. Morguí, X. Rodó

P3.17 Physically based input retrieval for dual source energy balance modelling
W. J. Timmermans, ITC, The Netherlands
K. Richter, F. Vuolo, A. Olioso

P3.18 Land surface soil mosture retrieval from temporal change of land surface temperature: a sensitivity study
W. Zhao, LSIIT, France
Z.-L. Li

P3.19 Spatial representativeness of carbon dioxide and water fluxes: footprint and remote sensing data analysis
M. Balzarolo, University of Tuscia, Italy
N. Arriga, D. Papale

P3.20 On the validation of mass and energy fluxes in the Land Carbon Core Information Service (LC-CIS) of geoland2
M. Balzarolo, University of Tuscia, Italy
D. Papale, geoland2 LC-CIS Team

P3.21 Assimilation of soil wetness index and leaf area index into the ISBA-A-gs land surface model
A. L. Barbu, CNRM-GAME (Meteo-France), France
J.-F. Mahfouf, C. Albergel, S. Lafont, J.-C. Calvet, C. Rüdiger, J. P. Walker

P3.22 Application of remote sensing and GIS techniques on Quickbird images to locate and distinguish wild pear (Pyrus bourgeana) surrounding mixed woody vegetation, in Sierra Morena (Cordoba)
S. Arenas, Universidad de Cordoba, Spain
G. Sòria, C. Mattar, V. Hidalgo, R. Oltra-Carrió, B. Franch, Y. Julien, J.C. Jiménez-Muñoz, J. A. Sobrino, J.F. Haeger, D. Jordano

P3.23 Analysing wildfires in Valencia with the Haines Index and monitoring the natural regeneration with MODIS data
M. J. Barberá, Fundación CEAM, Spain
R. Niclòs, M. J. Estrela, J. A. Valiente

P3.24 A New Tool from Information Extraction and Mining from Satellite Imagery Available from Google Maps Engine
S. Bernabé, University of Extremadura, Spain
A. Plaza

P3.25 MODIS-based remote sensing monitoring on the spatiotemporal patterns of China's grassland vegetation growth
X. Bin, Institute of Agricultural Resources and Regional Planning, China
Y. Xiuchun, T. Weiguo, M. Jianming, Y. Zhi, L. Haiqi, Q. Zhihao, L. Haiyan, J. Yunxiang, L. Jinya, Z. Xiaohua, L. Zhaoliang

P3.26 Application of artificial neural networks to the prediction of forest fire danger using MODIS data
M. Bisquert, Universitat de València, Spain
E. Caselles, J. M. Sánchez, V. Caselles, E. Rubio

P3.27 Monitoring natural and anthropized vegetation trends using remotely sensed LAI MODIS in semi-arid region. Study case of agricultural systems of northwest Senegal.
C. Bobée, LSCE-IPSL, France
C. Ottlé, F. Maignan, M. Ndiaye

P3.28 Automated updating of Corine Land Cover maps using MERIS time series-Aplication over the Mediterranean forests in the framework of the ESA-GlobCorine project
S. Bontemps, Université Catholique de Louvaine, Belgium
P. Defourny, J.-L. Weber, O. Arino

P3.29 Discrimination of olive orchards through object-based hierarchy classifications
I. L. Castillejo-González, University of Cordoba, Spain
A. García-Ferrer Porras, F. J. Mesas-Carrascosa, M. Sánchez de la Orden, F. López-Granados

P3.30 Monitoring water bodies over whole Africa at 250 m resolution: multi-annual analysis of various spatio-temporal dynamics
R. D'Andrimont, Université catholique de Louvain, Belgium
J.-F. Pekel, P. Defourny

P3.31 Land cover classification in Spain from seasonal trajectories of MODIS data
F. J. García-Haro, University of Valencia, Spain
A. Pérez-Hoyos

P3.32 Assesment of vegetation response to climate variability in Spain
F. J. García-Haro, University of Valencia, Spain
A. Moreno, A. Pérez-Hoyos, M.A. Gilabert, J. Meliá, F. Belda, D. Poquet, B. Martínez, A. Verger

P3.33 Synergy of ECOCLIMAP land cover and LSA SAF vegetation parameters
F. J. García-Haro, University of Valencia, Spain
A. Verger, J.L. Roujean, F. Camacho, J. Meliá

P3.34 Global vegetation Monitoring with PAL NOAA-AVHRR data between 1981 and 2001
Y. Julien, University of Valencia, Spain
J. A. Sobrino, F. González-Alonso

P3.35 The YLCD method: Monitoring vegetation from annual behaviour of NDVI and LST time series
Y. Julien, University of Valencia, Spain
J. A. Sobrino, C. Mattar, J. C. Jiménez-Muñoz, G. Sòria, V. Hidalgo, B. Franch, R. Oltra-Carrió, J. Cuenca

P3.36 Pastoruri glacier cover mapping from Landsat and ASTER imagery
J. J. Pasapera-Gonzales, CONIDA, Peru
C. Villom-Reinoso, D. Pareja-Quispe, J. C. Jiménez-Muñoz, C. Mattar, J. A. Sobrino

P3.37 Ecosystem functional characterisation in the Iberian peninsula
A. Pérez-Hoyos, University of Valencia, Spain
F. J. García-Haro, B. Martínez, M. A. Gilabert

P3.38 Spatio-temporal Dynamics of French Forests Phenology: Investigating Disturbances at Multiple Scales
J.-C. Samalens, INRA, France
D. Guyon, N. Bories, C. Moisy, J.-P. Wigneron

P3.39 Detección de cambio de uso de suelo en la región de Michoacán usando datos CYCLOPES
L. Valderrama, IIAF-UMSNH, Mexico
M. L. España, F. Baret

P3.40 Mapping cropland areas in Sub-Saharan Africa using MODIS time series
C. Vancutsem, Joint Research Centre, Italy
J. P. Pekel, F. Kayitakire

P3.41 Characterizing seasonal dynamics and inter-annual variability of different vegetation types in Central Africa with multi-resolution remote sensing time series
A. Verhegghen, Earth and Life Institute, Université Catholique de Louvain, Belgium
P. Defourny

P3.42 Size matters: the effect of urban vegetation patch size on surface temperature patterns along a urban-to-rural gradient in NW Argentina
A. Gioia, Universidad Nacional de Tucumán, Argentina
L. Paolini, A. Malizia, R. Oltra-Carrió, J.A. Sobrino

P3.43 Large-Scale climatic influence on Sahelian vegetation dynamics
S. Huber, University of Copenhagen, Denmark
R. Fensholt, K. Rasmussen

P3.44 Trends in global land surface temperature data since 1991 based on ERS and ENVISAT ATSR data
C. Kogler, ESA, ESRIN, Italy
S. Pinnock, O. Arino, F. Prata, J. M. Delgado

P3.45 Monitoring and forecasting the urban heat island phenomenon in ten european cities: The UHI project
P. Manunta, Planetek italia Srl, Italy
M. Viel, G. Ceriola, I. A. Daglis, K. de Ridder, T. Giannaros, I. Keramitsoglou, B. Maiheu, D. Melas, E. Montero Herrero, M. Paganini, M. Palacios, A. Radius, T. Sapage, M. Tamame, H. Tambuyzer

P3.46 Air quality monitoring and forecasting in China
B. Mijling, KNMI, The Netherlands
R. Van der A, P. Zhang, H. Kelder

P3.47 Wheat yield monitoring in Southern Spain using a series of satellite images
F. Muñoz-Padilla, IFAPA, Spain
M. P. González-Dugo, F. Mansilla, J. Domínguez, P. Gavilán

P3.48 Surface Urban Heat Island monitoring. The case study of Madrid (Spain), Athens (Greece) and San Miguel de Tucumán (Argentina)
R. Oltra-Carrió, Image Processing Laboratory, Universitat de València, Spain
J. A. Sobrino, G. Sòria, J. C. Jiménez-Muñoz, Y. Julien, C. Mattar, V. Hidalgo, B. Franch, J. Cuenca

P3.49 Spatial distribution of air temperature measured in the framework of the Desirex 2008 and Thermopolis 2009 urban heat island Campaigns
G. Sòria, University of Valencia, Spain
J. A. Sobrino, J. C. Jiménez-Muñoz, R. Oltra-Carrió, C. Mattar, V. Hidalgo, B. Franch, Y, Julien, J. Cuenca

P3.50 Assessing urban heat island in Madrid using multiyear land surface temperature retrieved from ERS and Envisat (A)ATSR
T. Brás, ESA ESRIN, Italy
M. Berger, I. Trigo, P. Viterbo, C. Kogler

P3.51 Global Trends in Lake Surface Temperatures Estimated From Multi-Sensor Thermal Infrared Imagery
P. Schneider, JPL, USA
S. Hook

P3.52 Generation of continuous rasters of climatological variables using geographic weighted regression
L. Morales, Universidad de Chile, Chile
J. C. Parra, J. Espinosa

13:30 – 15:00 **Pausa Comida / *Lunch Break***

15:00 – 17:00 **Sesión Oral / *Oral session***

SESSION 10: -Sensor Calibration, Atmospheric Correction and Product Validation

Presidentes / *Chairpersons*: Z. L. LI, Y. YU

S10.1 A framework for verifying the quality of quantitative remote sensing products and their field measurement protocols
J. L. Widlowski, Joint Research Centre, Italy
B. Pinty, Y. Govaerts, J. F. Cote

S10.2 STRS: a new conceptual framework for the integration of remote sensing data from multiple different sensors
G. Villa, Instituto geográfico nacional, Spain
J. Moreno, J.J. Peces, J. A. Tejeiro

S10.3 Quality assessment of the first version of Geoland-2 biophysical variables produced at global scale
F. Camacho, EOLAB, Spain
F. Baret, J. Cernicharo, R. Lacaze, M. Weiss

S10.4 The GlobCorine land cover map - A joint EEA-ESA initiative for operational land cover mapping at pan-European scale
S. Bontemps, Université Catholique de Louvaine, Belgium
P. Defourny, E. Van Bogaert, J.-L. Weber, O. Arino

S10.5 European Space Agency campaing activities in support of earth observation projects
R. Bianchi, ESA, ESRIN, Italy
M. W. J. Davidson, C. Bouzinac, D. Schuettemeyer

17:00 – 17:30 **Pausa Café / *Coffee break***

17:30 – 19:00 **Sesión Oral / *Oral session***

SESSION 11: - Earth Observation Missions & Services

Presidentes / *Chairpersons*: M. RAST, E. ORIOL

S11.1 Spanish Earth Observation Satellite System
J. Lomba, CDTI, Ministry of Industry, Spain
R. Trigo, C. Quintana, J. Ureña, E. Vez, M. López, F. Cerezo, J. Moreno

S11.2 The Hyperspectral Infrared Imager (HyspIRI)
S. J. Hook, Jet Propulsion Laboratory California, USA

S11.3 Retrieval of vegetation and surface properties with terrestrial, airborne and space-borne laser scanners
M. Menenti, Delft University of Technology, The Netherlands
M. Zulkarnain Abd Rahman, A. Buksch, R. Lindenbergh, H. van Duong

S11.4 The BIOMASS mission- A candidate ESA Earth Explorer to measure the world forest biomass
T. Le Toan, CESBIO, France
S. Quegan, J. Chave, J. Dall, K. Papathanassiou, F. Rocca, S. Saatchi, K. Scipal, H. Shugart, L. Ulander, M. Williams

JUEVES 30 SEPTIEMBRE 2010 – *THURSDAY 30th SEPTEMBER 2010*

9:00 – 10:30 **Sesión Oral / *Oral session***
SESSION 12: -Passive and actives microwaves & SAR Data Processing / Applications
Presidente / *Chairperson*: S. QUEGAN, J. SHI

S12.1 A study on estimation soil mosture with the combined L-band radar and radiometer measurements
J. Shi, University of California, USA
K. S. Chen, L. Tsang, D. Entekhabi, E. Njoku, T. Jackson, P. O'Neill

S12.4 Vertical structure estimation using multi-baseline polarimetric SAR interferometry
I. Hajnsek, German Aerospace Centre, Germany
K. Papathanassiou, G. Krieger, A. Moreira

S12.3 Satellite based estimates of soil moisture over the Tibetan Plateau
Z. Su, University of Twente, The Netherlands
L. Wang, L. Dente, Z. Vekerdy, R. van der Velde, J. Wen, M. Ofwono

S12.2 Near-surface air temperature and land-surface temperature retrievals in winter and summer from passive microwave brightness temperature over Northern latitudes
A. Royer, University of Sherbrooke, Canada
J. Kohn, S. Poirier, M. Fily

10:30 – 11:00 **Pausa café / *Coffee break***
11:00 – 12:00 **Sesión Oral / *Oral session***
SESSION 13: -Passive and actives microwaves & SAR Data Processing / Applications
Presidentes / *Chairpersons*: Y. KERR, J. FONT

S13.1 SMOS First in flicht results
Y. H. Kerr, CESBIO, France
P. Waldteufel, F. Cabot, P. Richaume, A. Mialon, S. Juglea, A. Hahne, S. Mecklenburg, J. Font

S13.2 Insight to SMOS Ocean Data Analysis Status
J. Font, SMOS Barcelona Expert Centre (SMOS-BEC), Spain
R. Sabia, C. Gabarró, M. Talone, V. González-Gambau, I. Corbella, A. Camps, J. Martínez, A. Monerris

S13.3 First evaluation of SMOS observations and L2 soil moisture products over a variety of biomes at global scale
J. P. Wigneron, INRA, EPHYSE, France
N. Novello, Y. Kerr, F. Cabot, S. Delwart, F. Demontoux, A. Govind, D. Guyon, E. Jacquette, H. Lawrence, E. López-Baeza, A. Mahmoodi, C. Mattar, S. Mecklenburg, A. Mialon, C. Moisy, P. Richaume, K. Saleh, M. Schwank, J.A. Sobrino

12:00 – 13:30 Sesión Poster / *Poster session*
SESSION 4:- Sensor Calibration, Atmospheric Correction and Product Validation
- Laser Active Remote Sensing and Fluorescence
- Passive Microwaves & SAR Data Processing / Applications
- Earth Observation Missions & Services

P4.01 Air surface temperature derived from MODIS LST data. Regional aspects over Portugal
A. Benali, CENSE, Portugal
A. C. Carvalho, J. P. Nunes, A. Santos, J. Seixas

P4.02 Satellite (MODIS, OMI) against ground-based (AERONET) AOD-Angström for various aerosol case studies over southeastern Spain: a complement to the previous evaluation of climatologies
Y. S. Bennoua, University of Valladolid, Spain
V. E. Cachorro, C. Toledano, A. Berjón, D. Fuertes, R. González, R. Rodrigo, B. Torres, A. de Frutos

P4.03 Optimal estimation Method to calibrate infrared radiometers
G. Brogniez, Université des Sciences et Technologies de Lille, France
B. Bonnel, B. Damiri, M. Legrand, J. P. Buis, N. Buis

P4.04 Consistency assesment of FVC and LAI operational products over Africa
F. Camacho, EOLAB, Spain
F. J. García-Haro, A. Verger, J. Meliá

P4.05 Integration of MSG-derived solar radiation maps with ground observations with a statical copula model
L. Campo, Università di Firenze, Italy
F. Castelli

P4.06 Validation of data from the SAC-D / AQUARIUS mission: Application to the knowledge of vegetation water stress
F. Carmona, Instituto de Hidrología de Llanuras "Dr. Eduardo J. Usunoff", Argentina
D. Girolimetto, D. Ocampo, M. Holzman, V. Venturini, R. Rivas

P4.07 Determination of the Unfiltering factors for the Broad-Band Radiometer (BBR) in the framework of the EarthCARE mission
N. Clerbaux, Royal Meteorological Institute of Belgium, Belgium
A. Velázquez-Blázquez, A. Ipe, L. González-Sotelino, P.J. Baeck, E. Baudrez, I. Decoster, S. Dewitte, S. Nevens

P4.08 Land surface temperature: Towards merging polar orbiting and geostationary satellite data for the ideal dataset
E. M. Comyn-Platt, University of Leicester, United Kingdom
J. J. Remedios, E. J. Good

P4.09 Airborne Remote Sensing Facility Based in an AHS and a CASI-1500i
A. Fernández-Renau, INTA, Spain
E. de Miguel, F. Muñoz, C. Doñamayor, M. Jiménez, O. Gutiérrez de la Cámara, J. A. Gómez

P4.10 Cross-calibration of CBERS-02B/CCD with Terra/MODIS
C. Gao, Graduate University of Chinese Academy of Sciences, China
X. Jiang, X. Li, X. Li

P4.11 Study of remote sensing validation system
X. Jiang, Chinese Academy of Sciences, Academy of Opto-Electronics, China
X. Song, Z. L. Li, X. Li, X. Xi, Z. Li, X. Li

P4.12 A quantitative comparison between remote sensing forest products and NFI data at national scale
P. Kempeneers, Joint Research Center, Italy
F. Sedano, L. Seebach, J. San-Miguel-Ayanz

P4.13 Cross-calibration of HJ-1 CCD with Terra MODIS on Dunhuang observations
L. Ma, Academy of Optp-Electronics, China
S. Qiu, X. Wang, L. Tang

P4.14 Evaluation of land surface temperature and emissivities retrieved from MSG-SEVIRI data with MODIS land surface temperature and emissivity products
Y. G. Qian, Chinese Academy of Sciences, Beijing, China
Z. L. Li

P4.15 First results towards building up a reliable in-situ measurements database for LST algorithms validation using modular WSN: Northern Morocco campaigns case study
N. Raissouni, University Abdelmalek Essadi (UAE), Morocco
J.A. Sobrino, A. Chahboun, N. Ben Achhab, M. Lahraoua, A. Azyat

P4.16 Validation of several MODIS-NIR algorithms for retrieval of the atmospheric water vapour content in the Iberian Peninsula
C. Recondo, Universidad de Oviedo, Spain
E. Pendás, R. Aguirre

P4.17 Atmosphere and land optical characterization using automatic ground based measurements
R. Santer, Université du Litoral MREN, France
A. Meygret, J. P. Buis

P4.18 Cereals characterization over semi-arid Merguellil basin, using SPOT/HRV data
M. Shabou, IRD-CESBIO, France
M. Zribi, B. Duchemin, Z. Lili, R. Amri, B. Mougenot, V. Simonneaux, A. Chehbouni

P4.19 Validation of infrared imaging radiometer (IIR/CALIPSO) measurements by comparison with airborne observations (CLIMAT-AV) during Cirrus Cloud Experiment (CIRCLE-2) campaign
O. Sourdeval, Université des Sciences et Technologies de Lille, France
G. Brogniez, P. Dubuisson, F. Parol, J. Pelon

P4.20 Preliminary results from the AgriSAR2009 campaign for irrigated and non-irrigated crops in BARRAX Spain
L. Alonso, Imaging Processing Laboratory, University of Valencia, Spain
S. Moran, F. de la Cruz, J. Moreno

P4.21 Monitoring of surface soil moisture based on ASAR/ENVISAT radar data over Merguellil site (Tunisia)
A. Chahbi, IRD-CESBIO, France
M. Zribi, B. Duchemin, R. Amri, Z. Lili, M. Shabou, A. Chehbouni

P4.22 Subsidence determination in the city of Valencia and its sourrondings using RADAR interferometry
J. M. Delgado, ESA-ESRIN, Italy
F. Cian, A. B. Ruescas, M. Datcu, F. Sarti

P4.23 Non-gaussian clustering of SAR images for glacier change detection
A. P. Doulgeris, University of Tromso, Norway
V. Akbari, S. N. Anfinsen, T. Eltoft

P4.24 First results of the SMOS Mission over land
Y. H. Kerr, CESBIO, France
P. Waldteufel, F. Cabot, J. P. Wigneron, P. Richaume, A. Mialon, A. Albitar, E. Jaquette, K. Saleh, S. Delwart, A. Mahmoodi

P4.25 L-band emission of rough soil surface covered with a grass litter layer including a moisture gradient: comparison between experimental data and a numerical model approach
H. Lawrence, University of Bordeaux 1, France
F. Demontoux, J.P. Wigneron, A. Mialon, C. Duffour, A. Kruszewski, V.L. Mironov, L.G. Kosolapova, Y. Kerr

P4.26 An evaluation of VUA soil moisture product over SMOSREX and VAS sites
D. Leroux, CESBIO, France
Y. Kerr, R. de Jeu, A. Mialon, S. Juglea

P4.27 Synergy of SMOS Microwave Radiometer, Thermal data and Vegetation Index for monitoring the water status of forest and natural vegetation
C. Mattar, University of Valencia, Spain
J. A. Sobrino, J. P. Wigneron, Y. Kerr, A. Al-Bitar, N. Novello

P4.28 Validation of SMOS Land Products Over the Valencia Anchor Station Site Using the Synergy Between Models, Airborne- and Ground-based Data
E. López-Baeza, University of Valencia, Spain
M.C. Antolin, C. Bouzinac, F. Belda, A. Buil, F. Camacho, E. Carbo, M.A. Coll, M. Davidson, S. Delwart, S. Juglea, Y.H. Kerr, S. Mecklenburg, C. Millan-Scheiding, M. Parde, F. Requena, K. Saleh, M. Schwank, J. Tamayo, E. Torre, I. Voelksch, J.-P. Wigneron and M. Zribi

P4.29 Sampling Strategy for the Validation of SMOS Surface Soil moisture at the Valencia Anchor Station. Airborne Campaigns of 2008, 2009, 2010
C. Millan-Scheiding, CIDE, CSIC, UVEG, Spain
M.C. Antolin, E. Carbo and E. López-Baeza

P4.30 Application of GNSS-R data over the Valencia Anchor Station site during the SMOS Validation Rehearsal Camping 2008
A. Buil, University of Valencia, Spain
V. Gómez Rubio, F. Fabra, E. Cardellach, A. Rius and E. López-Baeza

P4.31 Estimation of TVDI (Temperature Vegetation Dryness Index) and its Relation to Soil Moisture in the Framework of the SMOS Validation Campaigns in the Valencia Anchor Station
M.A. Coll, University of Valencia, Spain
E. López-Baeza

P4.32 Land surface temperature mapping using AMSR-E data over Qinghai-Tibet Plateau in China
S. Qiu, TRIO/LSIIT, University of Strasbourg, France
Z. Liu, Z. L. Li

P4.33 Characterization of SMOS RF inteferences in the 1400-1427 MHz band as detected during the comissioning phase
P. Richaume, CESBIO, France
C. Gruhier, Y. Kerr, F. Cabot, A. Mailon, J. Pla, E. Daganzo, R. Oliva

P4.34 Vegetation dynamic over the Kairouan region using ERS Scatterometer moisture estimations
M. Zribi, IRD CESBIO, France
T. Paris Anguela, B. Duchemin, Z. Lili, W. Wagner, R. Amri, A. Chehbouni

P4.35 Characterization of crops through aerial LIDAR data
E. Aguirre-Lora, University of Cordoba, Spain
I.L. Castillejo-González, A. García- Ferrer Porras, F.J. Mesas-Carrascosa, J.E. Meroño de Larriva, M. Sánchez de la Orden

P4.36 Atmospheric aerosol characterization by LIDAR depolarization profiles
J.A. Bravo-Aranda, University of Granada, Spain
F. Navas-Guzmán, M.J. Granados-Muñoz, L. Alados-Arboledas

P4.37 Evaluation of fluorescence estimation using different methodologies at airborne and in situ level
B. Franch, Image Processing Laboratory, Universitat de València, Spain
J. A. Sobrino, J. C. Jiménez-Muñoz, V. Hidalgo, G. Sòria, Y. Julien, R. Oltra-Carrió, C. Mattar, J. Cuenca

P4.38 3-D Monte Carlo radiative transfer with DART model- An application to Lidar modeling
J. P. Gastellu-Etchegorry, Université de Toulouse, France
E. Grau, J. Rubio, G. Sun, A. Brunt, J. Cros, N. Lauret

P4.39 An approach to the characterization of middle- and high-altitude clouds over Évora (Portugal)
J. L. Guerrero-Rascado, University of Évora, Portugal
M.J. Costa, J. Preissler, F. Wagner, A.M. Silva

P4.40 Optical and microphysical properties of tropospheric aerosol from Raman lidar
F. Navas-Guzmán, CEAMA, Spain
D. Müller, D. Pérez-Ramírez, J. L. Guerrero-Rascado, J. A. Bravo-Aranda, L. Alados-Arboledas

P4.41 Study of the assumption of using a range-independent lidar ratio in elastic lidar
F. Navas-Guzmán, CEAMA, Spain
F. J. Olmo, J. L. Guerrero-Rascado, H. Lyamani, J. A. Bravo-Aranda, L. Alados-Arboledas

P4.42 Global Climatology of the Aerosol Extinction-to-Backscatter Ratio from Direct Irradiance Values of the AERONET Network
R. Pedros, University of Valencia, Spain
V. Estellés, J. L. Gómez-Amo, M. P. Utrillas, J. A. Martínez-Lozano

P4.43 Improvement of active volcanoes deformation measurements using laser altimeter data: the Piton de la Fournaise case
M. Sedze, Institute de Physique du Globe de Paris, France
S. Jacquemoud, F. Bretar, E. Heggy

P4.44 EUFAR or how to ease the access to airborne researching facilities in Europe
J. L. Brenguier, INTA, Spain
M. Molina, O. Vargas, E. de Miguel, J. A. Gómez

P4.45 Technological solutions of ScanEx company for remote sensing data acquisition and processing
D. Fedotkin, ScanEx, Russia

P4.46 Defining the revisit frequency for the MISTIGRI project of a satellite mission in the thermal infrared
J. P. Lagouarde, UR 1263 EPHYSE, INRA, France
A. Olioso, J.-L. Roujean, J.G. Boulet, B. Coudert, S. Dayau, S. Castillo, M. Weiss

P4.47 Quantitative Analysis of Vegetation State by using DEIMOS-1 Data
J. López, DEIMOS Imaging SL, Spain
M. Díez, C. Moclan

P4.48 Challenges and solution on the development of the Ingenio/SEOSAT mission Primary Payload
C. Miravet, SENER Ingeniería y Sistemas, Spain
J.I. Bueno, D. Zorita, L. Pascual, P. Rodríguez, G. Taubmann, J. Azcona, J. Eguía, J. Martín, A. López, R. García, R. Navarro, T. Belenguer, L. M. González, C. Pastor, I. Cabeza, A. Marini.

P4.49 Spanish National Remote Sensing Program, a way to archive massive use of remote sensing data
J.J. Peces, Instituto Geográfico Nacional, Spain
G. Villa, A. Arozarena, E. Domenech, N. Plaza

P4.50 Thermal Airborne Spectrographic Imager for Temperature and Emissivity Retrieval
L. Pipia, Institut Cartogràfic de Catalunya (ICC), Spain
F. Pérez, A. Tardà, L. Martínez, V. Pala, R. Arbiol

P4.51 MXGS on ASIM at ISS. Mechanical and termal design.
J. M. Rodrigo Rodrigo, Universitat de Valencia, Spain
J. M. Macián Clemente, M. Reina Aranda, V. Reglero Velasco, L. Sabau-Graziatti

P4.52 Overview of the Thermal Infrared EXplorer (TIREX) mission
J. A. Sobrino, University of Valencia, Spain
J. P. Lagouarde, G. Boulet, X. Briottet, S. Cherchali, B. Coudert, I. Dadou, G. Dedieu, A. Gillespie, O. Hagolle, F. Jacob, J. C. Jiménez-Muñoz, P. Manunta, A. Mueller, F. Nerry, A. Olioso, C. Ottlé, K. Price, J.-L. Roujean, A. Royer, W.L. Stefanov, J. Voogt, I.M. Wattson and P.J. Zarco-Tejada

13:30 – 15:00 **Comida / *Lunch***

15:00 – 17:00 **Sesión Oral / *Oral session***
SESSION 14: - Laser active remote sensing and fluorescence
- Earth Observation Missions & Services
Presidentes /*Chairpersons*: M. BERGER, P. J. ZARCO-TEJADA

S14.1 Spectral methods to remotely measure photosynthetic efficiency, leaf to satellite
E. M. Middleton, NASA/Goddard Space Flight Center, USA
K. F. Huemmrich, Y. B. Cheng, Q. Zhang, P. K. E. Campbell, L. A. Corp, H. A. Margolis

S14.2 Remote sensing of sun-induced fluorescence to understand physiological changes of the photosynthetic apparatus- Recent advances in scaling fluorescence and photosynthesis from the leaf to the ecosystem
U. Rascher, Forschungszentrum Julich GmbH, Germany

S14.3 Estimation of gross ecosystem production by hyperspectral measurements in terrestrial ecosystems
M. Rossini, Remote Sensing of Environmental Dynamics Lab., Italy
M. Meroni, M. Migliavacca, S. Cogliati, L. Busetto, E. Cremonese, M. Galvagno, B. Gioli, F. Magnani, F. Miglietta, U. Morra di Cella, C. Siniscalco, R. Colombo

S14.4 Tree crown architecture of discontinuous canopies from airborne and ground-based laser scanning data
I. Moorthy, Centre for Research in Earth and Space Science (CRESS), Canada
J. R. Miller, J. A. Jiménez-Berni, P. J. Zarco-Tejada, P. R. J. North, J. A. B. Rosette

S14.5 Modelling vegetation fluorescence from single leaves and the canopy, observed on the ground and from space
W. Verhoef, University of Twente, The Netherland

S14.6 Terrestrial gamma ray flashes - our current knowledge and future observation missions
P. H. Connell, University of Valencia, Spain

17:00 – 17:30 **Conferencia de clausura / *Closing Conference***

E Oriol-Pibernat. European Space Agency, Italy

20:30 **Cena de Gala / *Gala Dinner***

VIERNES 1st OCTOBER 2010 – *FRIDAY 1st OCTOBER 2010*

10:30 – 12:00 **Conclusiones de sesiones por los presidentes/ *Session report by session's chairpersons***

12:00 – 12:30 **Acto de clausura / *Closing ceremony***

12:30 – 13:00 **Refrigerio / *Refreshments & Snacks***


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INFORMACIÓN GENERAL

Lugar de celebración:
El congreso tendrá lugar en el Auditori de Torrent, c/ Vicent Pallardo nº 25, 46900 TORRENT (Valencia). Tel: [+34] 961 581 0 7 (http://www.auditoritorrent.com).

Fechas:
Lunes 27 septiembre al viernes 1 de octubre de 2010

Idiomas de trabajo:
CASTELLANO E INGLÉS.

Inscripción:
Lunes 27 de septiembre 8:00-9:30.

Cuota de inscripción:
Congresistas:
Antes del 1 de Junio: 650 €, después del 1 de Junio: 730 €
Pago mediante transferencia a la cuenta: IBAN ES70 0049 1607 602510021106
SWIFT BSCHESMM.
La cuota de inscripción incluye: documentación, acceso libre a la sala de conferencias, pausas café, cocktail de bienvenida (lunes 27), 4 comidas (lunes, martes, miércoles, jueves), paella gigante (martes 28), cena de gala (jueves 30) y libro de actas.
Inscripción acompañantes:
Antes del 1 de Junio:200 €, después del 1 de Junio: 250 €
La cuota de inscripción incluye: cocktail de bienvenida (lunes 27), paella gigante (martes 28), actividad musical (martes 26), cena de gala (jueves 30).

Alojamiento:
Los hoteles seleccionados (a 15 km de distancia del Auditori) se muestran en la página web del congreso. Los autobuses gratuitos hasta el lugar del Congreso solo operarán desde estos hoteles.

Publicaciones:
El libro de resúmenes del congreso será entregado a cada participante el dia 27 de septiembre. Serán publicados en el libro de actas todos los trabajos recibidos antes del 15 de Octubre de 2010. Las instrucciones para escribir los trabajos se encuentran en la página web del congreso.

Modo de acceso (*ver mapa en la última página*):

- **Por avión:** Torrent (http://www.atorrent.es) está situada aproximadamente a 10 km del aeropuerto de Manises-Valencia (http://www.aena.es/csee/Satellite?pagename=Home). Existen vuelos directos hacia y desde Valencia en varios aeropuertos internacionales: Bruselas-Frankfurt-Lisboa-Londres-Milan–Paris-Zurich. El puente aereo entre Madrid y Barcelona asegura una fácil conexión a cualquier otro destino del mundo.
- **Por tren**: Conexión con la red internacional de trenes via Francia. Conexiones diarias con todas las ciudades importantes de España. (Madrid-Valencia 3:30 horas, Barcelona -Valencia 3 horas) (http://www.renfe.es).
- **Metro:** Las líneas 1 y 5 conectan a Torrent por metro con Valencia (http://www.metrovalencia.es/page.php).
- **Por carretera**: La autopista A7 del Mediterráneo conecta directamente con la red europea de carreteras. Conexiones con las carreteras nacionales: N-III, N-340, N-234, N-332. Autovia A-3 Madrid-Valencia.

GENERAL INFORMATION

Venue:
The symposium will take place at the Auditori of Torrent, Street: Vicent Pallardo nº 25, 46900 TORRENT (Valencia – Spain). Tel: [+34] 961 581 0 77 - http://www.auditoritorrent.com

Dates:
Monday 27th September to Friday 1st October 2010

Working Language:
ENGLISH and SPANISH.

Registration:
Welcome and registration will take place on Monday 27th September from 8:00-9:30 am.

Registration fees:
Congress participants:
Before 1 June 2010: 650 €, after 1 June 2010: 730 €
Payment by bank transfer to the following account Number: IBAN ES70 0049 1607 602510021106
SWIFT BSCHESMM.

At the Symposium registration desk only payment in cash in EURO will be accepted. Please note that the personal checks, traveler's checks, etc cannot be accepted at the registration desk.

Registrations fees will include documentation, one conference wallet, Bus service from hotels to Auditorium, admission to the conference sessions, exhibition and break areas, refreshment breaks, welcome cocktail (Monday 27th), gigantic paella and musical event (Tuesday 286th), 4 lunches (Monday, Tuesday, Wednesday and Thursday), a Gala Dinner (Thursday 30th), and proceedings.
Accompanying persons:
Before 1 June 2010: 200 €, after 1 June 2006: 250 €
Registrations fees includes: welcome cocktail (monday 27th), gigantic paella in the street and Musical activity (Tuesday 28th), Gala Dinner (Thursday 30th).

Accommodation:
The hotels (15 km away from the Auditori) used in the Symposium are shown on the website http://ipl.uv.es/raqrs/?q=content/accomodation. The free buses to the Congress hall will operate from these hotels only.

Publications:
The symposium abstract book will be given to each participant on the opening day. The proceedings book will be sent to participants by the end of 2010. The author guidelines can be consulted on the website. All texts received before 15th October 2010 will be published.

Transport facilities (*see map on last page*):
By air: Torrent (http://www.atorrent.es) is less than 10 km from the airport of Manises-Valencia (http://www.aena.es/csee/Satellite?pagename=Home). Direct flights to and from Valencia, international airport: Brussels-Frankfurt-Lisbon-London-Milan-Paris–Zurich. An air shuttle to Madrid and Barcelona ensures easy connection to all other destinations around the world.
By rail: Connection with the European railway networks daily via France. Daily connections with all the major Spanish cities. (Madrid-Valencia 3:30 hours, Barcelona-Valencia 3 hours) (http://www.renfe.es).
Metro: metro lines 1 and 5 connect Torrent with Valencia (http://www.metrovalencia.es/page.php).
By road: A7 Mediterranean Motorway: conection with the European expressway network. Highways: conections with national highways N-III, N-340, N-234, N-332. Autovia A-3 Madrid-Valencia.

Para obtener información adicional:
Further information may be obtained from:

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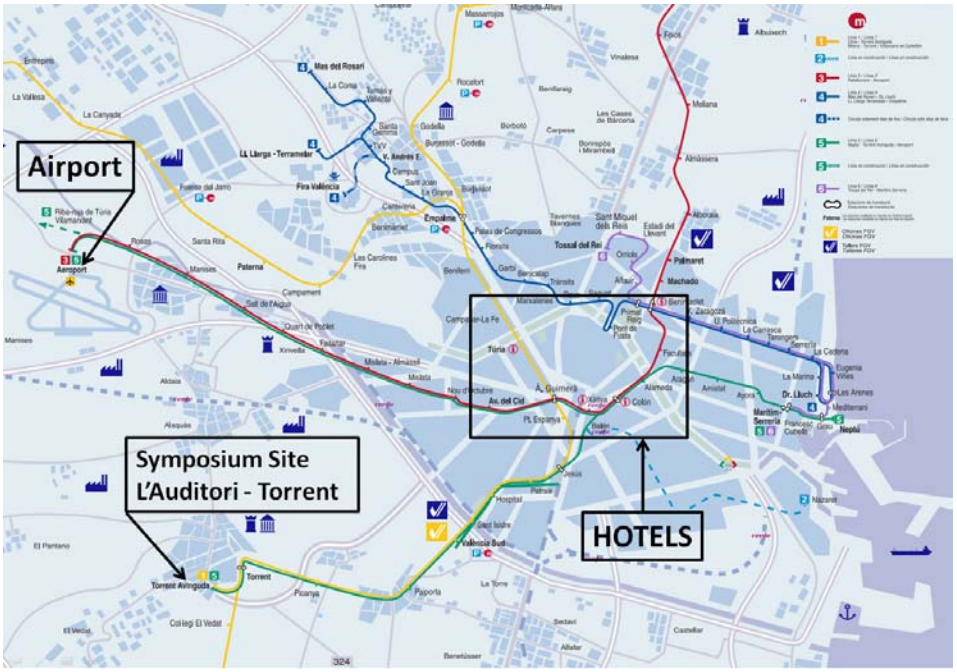
http://ipl.uv.es/raqrs



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