



# PROGRAMME

## Belgian Earth Observation Days 2013

19-20 November 2013, Feluy - Belgium



### DAY 1 - 19 November 2013

**8:30 Registration**

**9:10 Conference Opening**  
Jacques Nijskens

**9:25 Evaluation of STEREO II**  
The STEREO team

**9:40 The STEREO III programme and the first call for proposals**  
The STEREO team

**10:40 Coffee break**

**11:00 First session: Final results of projects – call 2009**

Uncertainty analysis and data-assimilation of remote sensing data for the calibration of cellular automata-based land-use models

(Lien Poelmans, Johannes van der Kwast, Derek Karssenbergh, Kor de Jong, Kasper Cockx, Tim Van de Voorde, Frank Canters, Inge Uljee and Guy Engelen)

Geostationary ocean colour - preparing the future

(Kevin Ruddick, Quinten Vanhellemont, Aida Alvera Azcarate and Zhongping Lee)

High resolution merged satellite Sea surface temperature fields (HiSea): final results and perspectives

(Aida Alvera-Azcárate, Alexander Barth, Charles Troupin, Igor Tomazic and Jean-Marie Beckers)

Hyperspectral-hyperspatial data fusion and unmixing techniques to tackle the spectral-spatial resolution

(Stephanie Delalieux, Guy Thoonen, Zahid Mahmood and Paul Scheunders)

**12:00 Lunch**

**14:00 Continuation of first session**

Small scale reforestation in eastern DRC: the role of remote sensing in the REDD+ mechanisms

(Eléonore Wolff, Alix Sotiaux, Mone Van Geit, Olivier Ska and Pierre Defourny)

Three dimensional mapping of soil organic carbon using imaging and point spectroscopy

(Leonardo Ramirez-Lopez, Kim Knauer, Antoine Stevens, Martin Schlerf and Bas van Wesemael)

The distribution of *R. microplus*: an invasive tick in West Africa

(Eva De Clercq, Maxime Madder, Agustin Estrada-Pena and Sophie Vanwambeke)

**14:45 Coffee break**

**15:05 Continuation of first session**

An automated workflow targeting a pre-operational alert system in UNESCO WH tropical forests

(Julien Radoux, Maïté Jonas, Quentin Jungers and Pierre Defourny)

Remote mapping of tree species in Hawaiian rainforests: demonstrating the potential of hyperspectral time series

(Ben Somers and Gregory Asner)

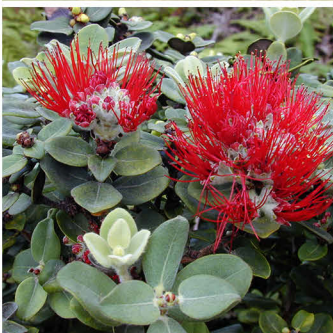
**15:40 BELAIR**

The BELAIR 2013 campaign

(Walter Debruyn, Stephanie Delalieux, Dries Raymaekers, Boud Verbeiren and Ils Reusen)

**16:00 End of sessions**

**16:15 BELAIR 2013 meeting**  
by invitation only





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### DAY 2 - 20 November 2013

#### 8:30 Registration

#### 9:15 Second session: Final results of projects – call 2007

The use of remote sensing and agrometeorological modelling for crop monitoring, damage and risk assessment in Belgium

(Viviane Planchon, Isabelle Piccard, Robert Oger, Bernard Tychon, Catherine Marlier, Dominique Buffet, Stephen Kempnaers, Bakary Djaby and Marielle Foguene)

Improving epidemiological modelling using satellite derived soil moisture proxies

(Els Ducheyne, Jan Peters, Jasper Van doninck, Niko Verhoest, Bernard De Baets and Guy Hendrickx)

Water quality monitoring with the APEX sensor

(Dries Raymaekers, Els Knaeps, Sindy Stercx and Daniel Odermatt)

Improvements in population estimate using remote sensing techniques for rural and urban area

(Eléonore Wolff, Alix Sotiaux, Louis Lohle-Tart, André Lambert and Herbert Hansen)

Operator performance in remote sensing image analysis: the impact of human and external factors

(Frieke Van Coillie, Soetkin Gardin, Frederik Anseel, Wouter Duyck, Lieven Verbeke and Robert De Wulf)

#### 10:30 Coffee break

#### 10:50 Third session: Presentation of new projects – call 2012

Dynamics of river plumes from MERIS, MODIS and GOCI data

(Kevin Ruddick, Bouchra Nechad, Dimitry Vanderzande, David Doxaran, Quinten Vanhellemont and Ana Dogliotti)

Changing farming, bush encroachment, and tick-borne disease risk in southern Norway

(Jasper Van doninck, Sophie Vanwambeke and Patrick Meyfroidt)

Monitoring Evapotranspiration at high resolution with MSG and Moderate resolution satellites

(Françoise Gellens-Meulenberghs, Nicolas Ghilain and José Miguel Barrios)

Biodiversity patterns along climate and land use gradients in Panama from imaging spectroscopy

(Ben Somers, Gregory Asner, C.B. Anderson, D.E. Knapp and R.E. Martin)

Spaceborne Radar Interferometric Techniques for Humanitarian Demining Land Release

(Nada Milisavljevic, Damien Closson, Francesco Holecz, Paolo Pasquali and Alain Muls)

#### 11:40 Fourth Session: UAV

*Key-note:* Recent advances in the developments of Unmanned Aircraft Systems (UAS) for environmental mapping and monitoring on UAV applications

(Arko Lucieer (University of Tasmania))

Belgian approach related to remotely piloted aircraft systems (RPAS) and their insertion into non-segregated airspace

(Erika Billen)

#### 12:30 Lunch

#### 14:00 UAV live demonstrations

#### 15:20 Continuation of fourth Session: UAV

Elucidation on live demonstration

(Dennis Devriendt and Tom Verstappen)

Overview of systems, applications and processing

(Kris Nackaerts and Peter Strigencz)

Drone image processing to detect small water body dynamics for fasciola risk modelling

(Wouter Hantson, Els Ducheyne and Guy Hendrickx)

Using unmanned aerial systems for the monitoring of Belgium forests: discrimination of tree species based on time series of airborne images

(Jonathan Lisein, Adrien Michez and Philippe Lejeune)

The Belgian Unmanned Aircraft System association: an overview.

(Koen Meuleman)

#### 16:45 Closure of the workshop

