



# PROGRAMME

## Belgian Earth Observation Day 2012

Wednesday 5 September 2012

Grand Hotel Casselbergh, Bruges - Belgium



**8:30 Registration and coffee**

**9:00 Conference Opening - STEREO II and beyond**  
STEREO Team

**9:10 Keynote**  
Opportunities within the upcoming ESA Earth observation programmes  
(**Marc Paganini** - ESA)

**9:40 First session: Final results of projects – call 2007**

The World Wide Watch project experience  
(**Pierre Defourny**, Céline Lamarche and Tim Jacobs)

**10:00 Remote sensing support for a jellyfish forecasting model**  
(**Quinten Vanhellemont**, Kevin Ruddick, Anton Albajes-Eizagirre, Laia Romero, Aureli Soria-Frisch, Charlotte O'Kelly and Rory O'Connell)

**10:20 Optimizing a coupled hydrologic-hydraulic model using remotely sensed soil moisture and flood extents**  
(**Niko Verhoest**, Marnick Vanclooster, Bernard De Baets, Valentijn Pauwels, Lucien Hoffmann, Hans Lieven, Sébastien Lambot, Julien Minet, Hilde Vernieuwe, Douglas Plaza, Patrick Matgen and Laura Giustarini)



**10:40 Coffee break**

**10:55 Proba-V: New opportunities for evapotranspiration monitoring at continental scale**  
(**Nicholas Ghilain**, Frederik De Roo and Françoise Gellens-Meulenberghs)



**11:15 Second session: Presentation new projects – call 2011 (max 10 min each)**

Integrated processing and ground truthing of hyperspectral and LiDAR images in Archaeology  
(**Véronique De Laet**, Luc Bertels, David Jordan, Martijn Van Leusen, Y. Jung Choi, Ben Somers, Dries Raymaekers and Els Knaeps)

Using DINEOF for the estimation of inter-sensor biases in sea surface temperature fields  
(**Igor Tomazic**, Aida Alvera-Azcárate, Charles Troupin, Alexander Barth, Jean-Marie Beckers and Françoise Orain)

ESSENSE - Mapping regulating Ecosystem Services using remote SENSing imagEry  
(**Birgen Haest**, Jan Staes, Sander Jacobs, Fernandino Villa, Ben Somers, Stéphanie Delalieux and Patrick Meire)



Flood mapping and soil moisture retrieval for improved water management  
(**Niko Verhoest**, Lucien Hoffmann, Paul Bates, Patrick Matgen and Hans Lievens)

Grazing suitability indicators from Earth observation to improve buffalo-cattle contact risk models  
(**Zaneta Kaszta**, Ruben Van De Kerchove, Sabine Vanhuyse and Eléonore Wolff)





11:55 **Second session: Presentation new projects – call 2011 (continued)**

RE-LEARN - RE-using field reference data in space and time for vegetation mapping: the potential of semisupervised and active LEARNING techniques

(**Birgen Haest**, Jan-Pieter Jacobs, Stefan Livens, Paul Scheunders, Devis Tuia and Gustavo Camps-Valls)

Spatio-temporal characterisation of small water bodies using very high resolution satellite and helicopter imagery

(**Els De Roeck**, Frieke Van Coillie, Robert De Wulf, Karen Soenen, Johannes Charlier, Jozef Vercruyssen, Wouter Hantson, Els Ducheyne and Guy Hendrickx)

Remote sensing of turbid waters. A closer look at the SWIR

(**Els Knaeps**, Kevin Ruddick, Ana Dogliotti, David Doxaran and Sindy Sterckx)



12:30 **Lunch**

14:00 Improvement of remote sensing products for soil moisture using ground-penetrating radar  
(**Sébastien Lambot** and Xavier Neyt)

HeatReCover - Remote sensing support to assist ecological restoration management after heath land fires

(**Birgen Haest**, Jeroen Vanden Borre, Toon Spanhove, Sander Veraverbeke, Luc Bertels, Stefaan Lhermitte, Marc Dufrêne, Martine Waterinckx and Geert De Blust)

Monitoring of urban sprawl and ecological corridors

(**Emilie Hanson**, Anne Puissant, Laurence Hubert-Moy and Eléonore Wolff)

Study and monitoring of Virunga volcanoes using TANDEM-X

(**Fabien Albino**, Dominique Derauw and François Kervyn)



14:40 **Third session: Presentation of first results thematic projects – call 2008**

Tropical forests phenology from SPOT-VEGETATION 10-yr time series to improve land-surface modelling in the Amazon and Congo basin for terrestrial carbon dynamics assessment

(**Hans Verbeeck**, Inès Moreau, Marjolein De Weirdt, Astrid Verhegghen, Kathy Steppe and Pierre Defourny)

15:00 Hyperforest: Advanced airborne hyperspectral remote sensing to support forest management  
(**Ben Somers**, Pieter Kempeneers, Flore Devriendt, Frieke Vancoillie, Kris Vandekerckhove and Felix Morsdorf)



15:25 **Coffee break**

15:45 Forest transition in mountain environments: topographic corrections and modelling of ecosystem services

(**Anton Van Rompaey**, Veerle Vanacker, Vincent Balthazar, Eric Lambin, Jacklyn Hall, Patrick Hostert, Patrick Griffiths, Steven Vanonckelen and Armando Molina)

16:05 Chlorophyll fluorescence of urban vegetation in relation to traffic exposure: a novel biomonitoring approach

(**Shari Van Wittenberghe**, Luis Alonso, Inge Hermans, Jochem Verrelst, Jesus Delegido, Frank Veroustraete, Roland Valcke, José Moreno and Roeland Samson)



16:25 Integration of remote sensing and field geomorphology for studying dune dynamics and aeolian-fluvial-human interaction in central Egypt

(**Ihab Mohamed**, Gert Verstraeten, Véronique De Laet, José Manuel Delgado Blasco and Marijn Hendrickx)

16:45 **Closure of the workshop**

