



MultiTemp

2017 | Bruges



27 – 28 June 2017 - Bruges, BELGIUM

MultiTemp 2017

Technical Programme

Gabrielle De Lannoy, Else Swinnen

Overview Programme



Tuesday 27/06		Wednesday 28/06		Thursday 29/06	
8:30 Registration		8:00 Registration		8:00 Registration	
9:45 Opening Session		8:30 Multi-sensor methods and applications		8:30 Methods and data sets for land cover and change detection	
		10:10 Coffee break		10:10 Coffee break	
		10:30 Pre-processing	10:30 Land Cover	10:30 Agriculture	10:30 Natural Hazards
12:00 Lunch					
13:00 Posters & Demo's					
14:00 Climate (hydro/cryosphere)	14:00 Vegetation Dynamics	14:00 Methods for climate related applications		14:00 Best Student's Award Methods and applications based on SAR and hyperspectral data	
15:40 Coffee Break		15:40 Coffee break		16:00 Closing session	
16:00 Climate (Vegetation)	16:00 Forestry	16:10 Posters & Demos		16:15 End of MultiTemp 2017	
17:40 End of Day 1		17:00 End of Day 2			
18:00 Evening activity - Welcome reception		17:30 Reception at City Hall, Evening Activity & Conference Dinner			

Floorplan



Detailed programme



Voornaam ACHTERNAAM
Organisatie

27 - 29 June 2017 - Bruges, Belgium



Schedule

Most recent version available online and on the screens



Day 1	Tuesday 27/06	Room
8:30	Registration & Welcome Coffee	Lobby / Bar
9:45	Opening Session	Greeninghe
	<ul style="list-style-type: none">WelcomeOverview of MultiTemp 2017 & Technical ProgrammePROBA-V: continuing the world's oldest daily global vegetation time series Bianca Hoersch – ESA <ul style="list-style-type: none">KEYNOTE: A framework for Establishing Confidence in Earth Observation Datasets Joanne Nightingale – National Physical Laboratory <ul style="list-style-type: none">KEYNOTE: Monitoring of soil moisture and vegetation dynamics with ASCAT and Sentinel-1 Wolfgang Wagner – TUWien	
12:00	Lunch, poster session and demonstrations	Restaurant / Memling
14:00	Parallel Session: Climate (hydro/cryosphere) & Vegetation Dynamics	
	Climate (hydro/cryo) Greeninghe	Vegetation Dynamics Zeven Toren
	A non-linear data-driven approach to reveal global vegetation sensitivity to climate Diego G. Miralles – Ghent University	Remote sensing monitoring of land restoration interventions in semi-arid environments using a before-after control-impact statistical design Michele Meroni – European Commission, JRC
	Assessing Antarctic melt based on multi-source satellite time series Stef Lhermitte – Delft University of Technology	Temporal Relationships between daily Precipitation and NDVI Time Series in Mexico Rene R. Colditz – National Commission for the Knowledge and Use of Biodiversity (CONABIO)

- Programme book
- Screens
- Online: <https://multitemp2017.vito.be/schedule>
- All abstracts (filter per author, session) <https://multitemp2017.vito.be/presentations>

Opening Session

- **Joanne Nightingale (NPL)**
A framework for Establishing Confidence
in Earth Observation Datasets



- **Wolfgang Wagner (TUWien and EOCD)**
Monitoring of soil moisture and vegetation
dynamics with ASCAT and Sentinel-1

Wednesday 28/06 – Methods for climate related applications (14:00)

- **Feng Gao (USDA)**

Daily monitoring of vegetation conditions and evapotranspiration at field scale by fusing multi-satellite images



Methods and data sets for land cover and change detection (8:30)

- **Jan Verbesselt (WUR)**

Large area land cover mapping and monitoring using satellite image time series



Methods and applications based on SAR and hyperspectral data (14:00)

- **Thuy Le Toan (CESBIO)**
SAR time series for vegetation monitoring

Changes in programme



- **Tuesday 27/06**

16:00 - Forestry

Amazon rainforests green-up during the dry season observed from SPOT-VEGETATION time series – Ines Moreau

Cancelled

- **Wednesday 28/06**

14:00 - Plenary Session: Methods for climate related applications

Analyzing the albedo evolutions over pure forest land cover in France during the 2001-2013 period - Carole Plaque

→ Sea Surface Temperature changes analysis, an Essential Climate Variable for Ecosystem Services provisioning - Federico Filipponi, ISPRA

- **Thursday 29/06**

10:30 – Natural Hazards

SAR Image Change Detection Method based on Shearlet Transform – Yan Zhang, Jilin University Changchun

→ **Retrospective analysis of long-term landscape evolution based on archive satellite imagery and historical maps -**

Kristof Daniel, Government Office of the Capital City Budapest

- 14:00 – Plenary Session: Methods and applications based on SAR and hyperspectral data
Simulating the urban surface water balance based on detailed hyperspectral and frequent multispectral remote sensing data – Charlotte Wirion, Vrije Universiteit Brussel

→ **Simulating urban vegetation dynamics and interception storage combining multi-temporal satellite with airborne hyperspectral imagery –**
Boud Verbeiren, Vrije Universiteit Brussel

4 Poster sessions

- Tuesday 13:00 – 14:00
- Wednesday 13:00 – 14:00
- Wednesday 16:10 – 17:00
- Thursday 13:00 – 14:00

9 Demo's

- Tuesday 13:00-14:00
 - PROBA-V Mission Exploitation Platform
 - HUB Time Series Viewer - A concept to visualize and label remote sensing time series in QGIS
- Wednesday 13:00 – 14:00
 - Potato monitoring in Belgium with watchITgrow
 - Support for Multi-temporal and Multi-mission data processing: the ESA Research & Service Support

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- Wednesday 16:10-17:00
 - Assessing hypertemporal Sentinel-1 coherence maps for land cover monitoring
 - Temporal analysis with google Earth Engine
 - Multi temporal data visualization in EO mobile apps

- Thursday 13:00 – 14:00
 - The SPIRITS approach for earth observation based vegetation phenology
 - The Greenmonitor: a simple and user friendly web interface to monitor vegetation dynamics at field level - Quantification of crop yield damage by excessive precipitation

Best Student Award



▪ Award

- Certificate
- Surprise package
- Published on the website

▪ Jury

- Emmanuel Trouvé - University of Savoie, France
- Claudia Notarnicola - EURAC, Italy
- Francesca Bovolo - Fondazione Bruno Kessler, Italy
- Gabriëlle De Lannoy - KU Leuven, Belgium
- Else Swinnen - VITO Remote Sensing, Belgium

▪ TUESDAY 27/06

18:00 ~ Evening Activity: Welcome Reception @ Bourgogne Des Flandres

We end the first day with a **reception at the brewery Bourgogne Des Flandres**.

- 18:00 Departure @ Grand Hotel Casselbergh
- 18:15 Reception @ Bourgogne Des Flandres combined with a guided tour visit
- 20:00 End of the welcome reception



- WEDNESDAY 28/06

- 17:30 ~ Reception at City Hall of Bruges, evening activity and conference dinner**

The evening activity starts at 17:30 at the Grand Hotel Casselbergh. We gather at the lobby for departure to the City Hall of Bruges where a representative of the mayor's office will welcome us in the Gothic Hall.

- 17:30 Reception **City Hall of Bruges**
- 18:45 **Guided Tours** including
 - Each group will be guided through some of Bruges' nicest spots and stop at a unique place for a small appetizer.*
 - **Meet the locals: trades and artists in Bruges**
 - **Music meets culture in the ancient Bruges**
 - **Special taste of Bruges, stimulate the senses**
- 20:45 Dinner at **brewery Brugse Zot**
- 23:00 End of the symposium dinner





- You can use the **wireless internet access** in all meeting rooms
 - Search the **GHC network** on your device
 - Fill in the password:
DrinkaZot! (capital sensitive)
- Refresh in the morning if you have troubles to get a good connection

- Welcome from the host institution
- Overview of MultiTemp 2017 & Technical Programme
- PROBA-V: continuing the world's oldest daily global vegetation time series
Bianca Hoersch – ESA
- KEYNOTE
A framework for Establishing Confidence in Earth Observation Datasets
Joanne Nightingale - National Physical Laboratory
- KEYNOTE
Monitoring of soil moisture and vegetation dynamics with ASCAT and Sentinel-1
Wolfgang Wagner - TUWien