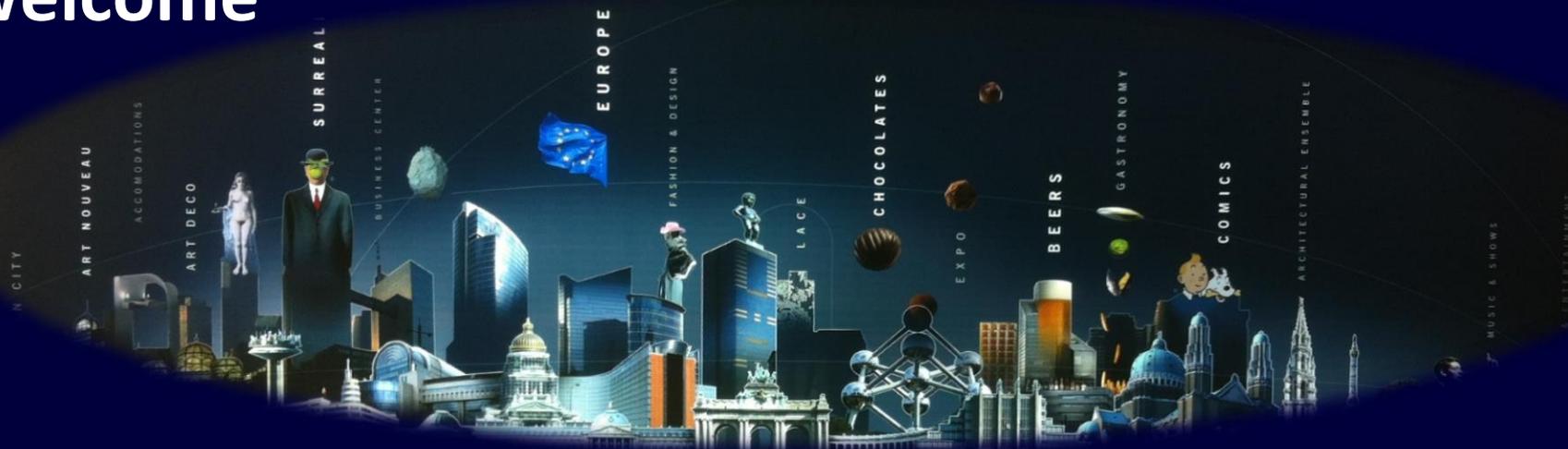


## Joint Experiment for Crop Assessment and Monitoring

### 2015 Science Meeting Objectives

Pierre Defourny and Ian Jarvis  
*JECAM co-leaders*

## Welcome



+ AGRICULTURE



KINGDOM OF BELGIUM  
Federal Public Service  
Foreign Affairs,  
Foreign Trade and  
Development Cooperation

2015 JECAM Science Meeting  
Brussels – Palais d’Egmont 16-17 November 2015

# JECAM

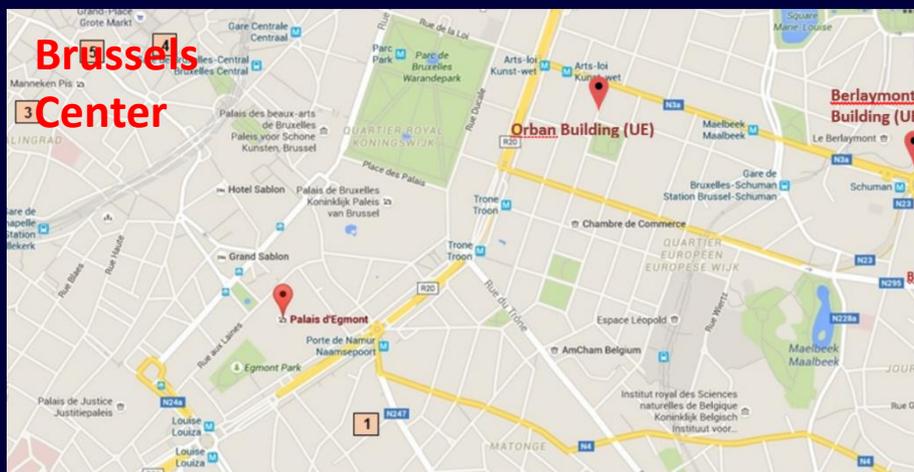


sentinel-2

+ AGRICULTURE



Monday	Tuesday	Wednesday	Thursday		Friday
2015 JECAM Annual Science Meeting (9:00 - 18:00)	2015 JECAM Annual Science Meeting (9:00 - 17:30)	Sentinel - 2 for Agriculture (2nd User Workshop) (9:00 - 17:45)	Sen2Agri (8:00 - 13:00)	SIGMA (8:00 - 13:00)	SIGMA Annual Meeting (9:00 - 17:30)
			SIGMA Annual Meeting (13:30 - 18:00)		
<u>Palais d'Egmont</u> Brussels	<u>Palais d'Egmont</u> Brussels	<u>Berlaymont Building</u> Brussels	Louvain-la-Neuve	<u>Orban Building</u> Brussels	<u>Orban Building</u> Brussels





The screenshot shows the JECAM website homepage. At the top left is the JECAM logo and tagline. At the top right is the GEO logo and tagline. Below these are navigation links: Home, Charter, Science Plan, Sensors, Map, Contact Us. A secondary navigation bar includes Study Sites, North America, South America, Europe, Asia, Africa, and a Google Custom Search box. The main content area features a large image of a cornfield with a central text box titled 'JECAM GOALS'. The text in the box states: 'The overarching goal of JECAM is to reach a convergence of approaches, develop monitoring and reporting protocols and best practices for a variety of global agricultural systems.' Below this text is the 'Agriculture Community of Practice' logo. At the bottom of the screenshot is a section titled 'Joint Experiment of Crop Assessment and Monitoring' with a detailed paragraph about the project's goals and its connection to GEOSS tasks.

## JECAM

Joint Experiment for Crop Assessment and Monitoring

Home Charter Science Plan Sensors Map Contact Us

Study Sites North America South America Europe Asia Africa

Google™ Custom Search Search

### JECAM GOALS

The overarching goal of JECAM is to reach a convergence of approaches, develop monitoring and reporting protocols and best practices for a variety of global agricultural systems.

 Agriculture  
Community of Practice

### Joint Experiment of Crop Assessment and Monitoring

The overarching goal of JECAM is to reach a convergence of approaches, develop monitoring and reporting protocols and best practices for a variety of global agricultural systems. JECAM will enable the global agricultural monitoring community to compare results based on disparate sources of data, using various methods, over a variety of global cropping systems. It is intended that the JECAM experiments will facilitate international standards for data products and reporting, eventually supporting the development of a global system of systems for agricultural crop assessment and monitoring. The JECAM initiative is developed in the framework of GEO Global Agricultural Monitoring (GEOSS Task AG0703 a) and Agricultural Risk Management (GEOSS Task AG0703 b).

JECAM goal is to facilitate the  
**inter-comparison of monitoring/modelling methods,**  
**product accuracy assessment,**  
**data fusion and product integration**  
for monitoring the **world's main cropping systems and ag. Practices**

thanks to the strong support of CEOS and additional international projects (currently mainly Asia-Rice, ESA Sen2Agri, EU Sigma)

## 2<sup>nd</sup> JECAM Science Meeting to capitalize by

- Building on the 2014 Ottawa meeting outcomes in terms of networking and close links with CEOS
- Capitalizing and learning from first JECAM cross sites experiments
- Sharing the progresses/achievements/concerns in the JECAM sites

(see also *The 2015 JECAM Report* available on line on JECAM.ORG)

## 2<sup>nd</sup> JECAM Science Meeting to exchange on

- Status of on-going EO missions and acquisition
- Existing JECAM guidelines and best practices for biophysical variables measurements
- JECAM EO and in situ licenses and minimum data sets
- New cross sites experiments and additional scientific objectives for the network
- GEOGLAM Advisory Committee recommendations



## Expected outcomes of the meeting :

- JECAM guidelines update and complement ?
- Convergence on MDS and EO and in situ data licenses ?
- JECAM SAR cross sites experiment design
- Prioritization of new research opportunities and roadmap towards implementation
- JECAM strategy/reply to the GEOGLAM AC recommendations
- Strengthen the JECAM networking and the experiences exchange



2015 JECAM Science Meeting  
*Brussels – Palais d’Egmont 16-17 November 2015*

## 2015 Science Meeting - Agenda

Day 1 - 16 November (Palais d'Egmont - 8, Place du Petit Sablon, Brussels)

### Opening Session - Chair: Jean-Christophe Schyns

- 9:00 Welcome address Belgian Science Policy representative
- 9:10 Meeting Objectives Pierre Defourny, *JECAM co-lead*
- 9:20 JECAM network update and report back from GEOGLAM AC meeting  
Ian Jarvis, *JECAM co-lead*
- 9:40 GEOGLAM: status and achievements Michel Deshayes, *GEOGLAM*

### 1<sup>st</sup> Session: Cross JECAM Sites experiment - Chair: Olivier Leo

- 9:55 JECAM/SIGMA large fields experiment for cropland Nataliia Kussul
- 10:15 JECAM/SEN2AGRI cross sites benchmarking for cropland Sophie Bontemps
- 10:35 JECAM/SEN2AGRI cross sites benchmarking for crop type Gérard Dedieu
- 10:55 Coffee break

## 2015 Science Meeting - Agenda

**Day 1 - 16 November** (*Palais d'Egmont - 8, Place du Petit Sablon, Brussels*)

**2<sup>nd</sup> Session: 2015 Highlights from JECAM Sites** - *Chair: Don Ball*

11:25 SA di Areco JECAM Site (Argentina) Diego de Abelleira, Santiago Verón

11:40 Kyiv JECAM Site Progress (Ukraine) Nataliia Kussul, Andrii Shelestov

11:55 Free State JECAM Site (South Africa) Terry Newby

12:10 Shandong JECAM Site (China) Miao Zhang

12:25 Tari JECAM Site (Taiwan) Chen-Ru Chen

*12:40 Lunch*

14:00 Koutiala JECAM Site (Mali) Pierre Sibiry Traoré

14:15 Koumbia JECAM Site (Burkina Faso) Agnès Bégué

14:30 Antsirabe JECAM Site (Madagascar) Valentine Lebourgeois

14:45 Marrakech JECAM Site (Morocco) Vincent Simoneaux

15:00 Sud-Midi Pyrénées JECAM Site (France) Gérard Dedieu

*15:15 Coffee break*



## 2015 Science Meeting - Agenda

Day 2 – 17 November (*Palais d'Egmont* - 8, Place du Petit Sablon, Brussels)

### 3<sup>rd</sup> Session : CEOS support for Agricultural Monitoring - *Chair: Benjamin Koetz*

09:00 Copernicus Sentinel-1 and 2 missions status Benjamin Koetz, ESA

09:20 CEOS Update, JECAM EO data access & NASA/JECAM Cloud based SDMS  
Alyssa Whitcraft, Brian Killough, NASA

09:40 The Canadian Space Agency and engagement in support of the JECAM  
objectives Yves Crevier, CSA

10:00 PROBA-V mission status and achievements J. Vandenabeels and J.-C. Schyns, BELSPO

10:20 Pléiades, SPOT4/5 Take 5 & Venus mission Gérard Dedieu, CNES

10:40 *Coffee Break*

### 4<sup>th</sup> Session: Collaborative Initiatives across JECAM Sites - *Chair: Yves Crevier*

11:10 Data Sharing: JECAM EO data licenses Ian Jarvis  
JECAM in situ data licences Pierre Defourny

Discussion

11:30 JECAM SAR Cross Sites multi-platform Experiment H. McNairn and P. Defourny  
AAFC SAR experiences results A. Davidson and I. Jarvis

Discussion on scientific objectives and joint protocols

Update on Cloud Services supporting the 2015 Collection of Radarsat2 and Sentinel-1 data

## 2015 Science Meeting - Agenda

Day 2 – 17 November (*Palais d'Egmont - 8, Place du Petit Sablon, Brussels*)

### 4<sup>th</sup> Session: The Way Forward - Chair: Pierre Defourny

- 13:45 SIGMA current achievements and plans Sven Gilliams  
14:05 SEN2AGRI 2016 demonstration phase Sophie Bontemps  
14:25 Feedback to GEOGLAM Advisors committee Ian Jarvis and all

15:00 *Coffee Break*

15:30 Building on the Minimum Datasets Concept  
Open discussion about research questions to be addressed

16:00 Forthcoming research activities (*feel free to add other topics*)

- JECAM/SIGMA small fields experiment
- JECAM-AGMIP joint experiment opportunities
- Landsat-8 and Sentinel-2 fusion experiment
- UAV experiences exchange for 'in situ' calibration/validation data
- SIGMA in situ data collection tool
- JECAM/SEN2AGRI demonstration phase

17:00 Summary, Action Items and Closing Remarks Ian Jarvis, Pierre Defourny

18:00 Belgian social event hosted by UCLouvain (departure from Palais d'Egmont at 18:00)