Joint Experiment for Crop Assessment and Monitoring

2015 Science Meeting Objectives

Pierre Defourny and Ian Jarvis

JECAM co-leaders

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Welcome
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<th>Monday</th>
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<td>2015 JECAM Annual Science Meeting</td>
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<td>Sentinel - 2 for Agriculture (2nd User Workshop)</td>
<td>Sen2Agri (8:00 - 13:00)</td>
<td>SIGMA Annual Meeting</td>
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<td>(9:00 - 18:00)</td>
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<td>Palais d'Egmont Brussels</td>
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<td>Berlaymont Building Brussels</td>
<td>SIGMA Annual Meeting (13:30 - 18:00)</td>
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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).
2nd 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)
2nd 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 to address the 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 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

1st 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)

2nd Session: 2015 Highlights from JECAM Sites - Chair: Don Ball

11:25 SA di Areco JECAM Site (Argentina)  Diego de Abelleyra, 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 1 - 16 November  (Palais d'Egmont - 8, Place du Petit Sablon, Brussels)

2nd Session: 2015 Highlights from JECAM Sites  - Chair:  Don Ball

15:45  Hesbaye JECAM Site (Belgium)  Aline Léonard and Cindy Delloye
16:00  Barrax JECAM site (Spain)    Fernando Camacho
16:15  Brazilian JECAM sites (Brazil)  Agnès Bégué

16:30  Asia-Rice experiment : current achievements  Shin-Ichi Sobue (by skype)

16:45  Standards for in situ LAI and biophysical variables measurements  Fernando Camacho

Discussion towards JECAM guidelines for in situ biophysical measurements

17:30  Open discussion on existing JECAM guidelines and expected evolution

18:00  Adjourn
2015 Science Meeting - Agenda

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

3rd 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

4th 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)

4th 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)*  All
- 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)