

Program for Agriculture sessions

Overview

22 Nov 14:20-16:00 Crop stressors and climate adaptation

22 Nov 16:20-18:00 Food security, yield and scaling up

23 Nov 09:00-11:00 Small-scale farming, African cases and nutrition

23 Nov 11:30-13:00 Inter-project collaboration

23 Nov 14:30-16:00 New opportunities: Agriculture Virtual Lab & Workshop

23 Nov 16:30-18:00 Conclusions and recommendations

24 Nov 09:00-11:00 Preparation of report to workshop

Detailed program day 1

22 Nov 14:20-16:00 Crop stressors and climate adaptation

Session objectives:

- Informing about project activities
- Identifying potential topics for collaboration between projects
- Identifying priority issues to address by new activities

Chair: Sven Gilliams (GEOGLAM)

Agenda:

1. Welcome and introduction – Espen Volden (ESA)
2. EO4CerealStress: Cereals and multiple stressors – Booker Ogutu (Univ. Southampton)
3. BEXYL: New methods of detection and surveillance of plant pests – Juan Navas-Cortes (CSIC)
4. SYLVA: Towards a European System for real-time observation of bioaerosols in the air - Mikhail Sofiev (FMI)
5. Discussion on synergies and priority topics: Common goals, common challenges, potential synergies and priority topics for new activities

22 Nov 16:20-18:00 Food security, yield and scaling up

Session objectives:

- Informing about project activities
- Identifying potential topics for collaboration between projects
- Identifying priority issues to address by new activities

Chair: Mark Noort (HPC)

Agenda:

1. Yield and food security: Challenges & opportunities - Sven Gilliams (GEOGLAM)
2. YIPEEO: Yield estimation and prediction – Piet Emanuel Büechi (TU Wien)
3. ScaleAgData: Upscaling in-situ sensor data for EU-wide monitoring of agri-environmental conditions and production – Isabelle Piccard (VITO)
4. AgriDataValue: Accelerating smart farming digital transformation via big satellite data - Artemis Voulkidis (Synelixis)
5. Discussion on synergies and priority topics: Common goals, common challenges, potential synergies and priority topics for new activities

Detailed program day 2

09:00-11:00 Small-scale farming, African cases and nutrition**Session objectives:**

- Inform about project activities
- Identify potential topics for collaboration with projects of previous sessions
- Identifying priority issues to address by new activities
- Discuss opportunities rising from new data sources

Chair: Zoltan Szantoi (ESA)

Agenda:

1. Guardians: Smart solutions to empower small- and medium-sized farms as guardians of the territory – Emilio Tereñes (CTIC)
2. Farmtopia - Marianna Gkavrou (Neuropublic)
3. TEMBO AFRICA: Germination insurance / onset of rainy season in Africa – Mark Noort (HCP International)
4. Afri4Cast: Disease and crop growth – Stelios Kotsopoulos
5. EO AFRICA WRM: Exploiting thermal and hyperspectral data for crop irrigation management - Giulio Ceriola (Planetek Italia)
6. EO4Nutri: Hidden Hunger - Mariana Belgiu (UT-ITC)
7. Discussion on synergies and priority topics: Common goals, common challenges, potential synergies and priority topics for new activities
6. Discussion on how to benefit from new EO data sources (hyperspectral, thermal, SIF, ...)

11:30-13:00 Inter-project collaboration**Session objectives:**

- Explore ways to identify opportunities for synergies (e.g. how to share relevant project information, how to identify common goals, challenges, bottlenecks, ...)
- Explore ways and mechanisms of collaboration between projects

Co-chairs: Franz Immler (EC DG-RTD), Roshanak Darvishzadeh (UT-ITC)

Agenda:

1. EC perspectives – Franz Immler (EC DG-RTD)

2. Example of identifying synergies between EO4Nutri and EO4CerealStress - Roshanak Darvishzadeh (UT-ITC)
3. Discussion: How to collaborate between projects

14:30-16:00 New opportunities: Agriculture Virtual Lab & Workshop

Session objectives:

- Present a new EO research tool and evaluate its usefulness for R&D projects and potential improvements
- Introduce new workshop and discuss topics

Chair: Espen Volden (ESA)

Agenda:

1. Agriculture Virtual Lab (AVL): Demonstration of a new tool for research on EO for agriculture – Gunnar Brandt (Brockmann Consulting)
2. Discussion on AVL usefulness and potential improvements
3. EO for Agriculture under Pressure 2024 workshop – Espen Volden & Zoltan Szantoi (ESA)
4. Discussion on workshop topics

16:30-18:00 Conclusions and recommendations

Chair: Espen Volden (ESA)

Session objectives:

- Prepare 1-2 summary slides of consolidated conclusions and recommendations for each of the agriculture sessions

Agenda:

1. For each previous agriculture session
 - a. Session chair presents draft conclusions and recommendations
 - b. Discuss and consolidate them into 1-2 summary slides

24 Nov 09:00-11:00 Preparation of report to workshop (small group)

Session objectives:

- Prepare 5 slides summarizing agriculture sessions focusing on conclusions and recommendations