GEOGLAM Meeting Draft Agenda

September 25 - 27, Room 2002, Conference Center
Hangzhou International Innovation Institute of Beihang University
No. 166, Shuanghongqiao Street, Pingyao Town, Yuhang District, Hangzhou, China

25th September

Afternoon: Co-chair meeting

3 hours close-door meeting among GEOGLAM Co-chairs and Programme Director

Could be allocated at 15:00-18:00 depending on the availability of attendees.

Potential topics to be discussed:

- GEOGLAM Governance
- GEOGLAM Strategic Planning
- Sustainability and Funding Opportunities
- Private sector engagement in GEOGLAM Policy & Strategy / How to join GEOGLAM and benefits
- GEOGLAM Branding
- Follow-up Actions

26th September

Ex-com meeting

9:30 – 10:20 **1. Review of Agenda and GEOGLAM overview**

- 9:30 -9:40 Overview of the Agenda
- 9:40 – 10.20 State of the GEOGLAM program – Sven Gilliams
  - State of the GEOGLAM Program
  - Funding, Website, Partnerships Feedback on the Co-chair meeting
  - GEOGLAM Branding
  - Discussion

Coffee Break for 20 min @10:20

10:40 – 12:40 **2. Report from GEOGLAM Working Groups**

- Report from Capacity Development WG,
  - lead by WG co leads and discussed with WG participants
- Report from In-situ Data Coordination WG,
  - lead by WG co leads and discussed with WG participants
- Report from JECAM covering the new sites, new cross-sites comparison experiments, etc
  - lead by WG co leads and discussed with WG participants
- Report from Essential Agricultural Variables WG,
  - lead by WG co leads and discussed with WG participants

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Afternoon: Ex-com meeting

- 14:00 – 15:00 **3. Roundtable Session**
  - Contributions from all GEOGLAM partners

  To allow everyone to provide any updates on their current activities that relate to the GEOGLAM mission for EO based agricultural monitoring and opportunities for broader collaboration.
    - *3 Slides to be provided upfront to focus on discussion during this session*
    - Please send your slides to GEOGLAM Secretariat 1 week in advance of the meeting, presentations will be shared - so everyone can prepare questions and look for synergies between activities.
    - Slides should focus on;
      - background / objective
      - outcome / results
      - linkage with GEOGLAM WG or activities

15:00 – 16:00 **3. Discussion on potential new Initiatives, future directions, and actions in the next one year**

- Potential New Working Groups
  - Global Yield Gap WG
  - Agricultural disaster & extreme events
  - Merging Working Groups
- Policy challenges and potential opportunities going forward
  - Alignment with Global Agendas and Policy Influence
  - New projects

Coffee Break for 20 min @16:00

16:20 – 17:10 4. Opportunities for exchanges and meeting

- Meetings 2025
  - G20 - South Africa and future G20's
  - ESA Living Planet
  - GEO Global Forum
  - GEOGLAM Ex-com meeting 2025 and after
  - Regional meetings

17:10 – 17:30 5. Action Items and Wrap up

27th September

GEOGLAM Open Science Day

08:30 – 11:00 **1. Advances in cropland and crop type monitoring (12 min for each)**

Chair: Pierre Defourny

- Large scale crop type mapping based on machine learning approaches Jinwei DONG, IGNRSS, China
- *Adopting the Presto Foundational Model in the WorldCereal Crop Classification System to Improve Spatial and Temporal Generalizability, Laurent Tits, VITO Belgium*
- *A robust maize index towards automatic applications from national to global scales Bingwen Qiu, Fuzhou University, China*
- *Global data base on in situ data for crop type mapping, Hendrik Bogaard, WENR, The Netherlands*
- *Q&A*
- *Boosting crop classification by hierarchically fusing satellite, rotational, and contextual data, Martin Claverie, EC-JRC, Ispra, Italy*
- *Mapping paddy rice cropping intensity and calendar in Monsoon Asia at 20 m resolution between 2018 and 2021 from multi-source satellite data using a sample-free algorithm Yongzhe Chen, Department of Geography, The University of Hong Kong, Hong Kong, China*
- *A large-scale VHR parcel dataset and a novel hierarchical semantic boundary-guided network for agricultural parcel delineation Hang ZHAO, AIRCAS, China*
- *Q&A*
- *Panel discussion: transforming from research to operation in cropland and crop type mapping*

- *Reserve ppt*
- *Monitoring and assessment of agricultural land systems Wenbin WU, CAAS, China (tbc)*
- *MAPPING OF CROPLAND USING REMOTE SENSING AND MACHINE LEARNING TECHNIQUES, Navamuniyammal, Institute of Remote Sensing (IRS), Anna University, Chennai, TamilNadu, India (tbc)*

Break for 20 min @11:00

11:20 – 12:30 **2. Advances in crop yield prediction (12 min for each)**

Chair: Miao Zhang

- Mapping global wheat dynamics using a flexible Gaussian model Xuecao LI, China Agriculture University
- *Crop yield forecasting with machine learning and deep learning using Earth Observation, meteorological and ancillary data Michele Meroni, EC-JRC, Ispra, Italy*
- *Improved satellite products of downward shortwave radiation for crop modelling, Dongdong Wang, Institute of Remote Sensing and GIS, Peking University, China*
- *Improved crop monitoring and yield estimation by integrating satellite and in-situ sensor data, Laurent Tits, VITO, Belgium*
- *Panel discussion: Research vs Operational, trade-off between accuracy or prediction lead time*

13:45 – 15:00 **3. Crop condition monitoring and crop stress assessment (12 min for each)**

Chair: Jinlong Fan

- *Impacts of crop rotation on crop condition monitoring, Zhang Miao*
- *Harnessing Earth Observations and Artificial Intelligence for Sustainable Agricultural Practices at Global Scale, Dimitrios Bormpoudakis, BEYOND EO Centre, IAASARS, National Observatory of Athens, Athens, Greece*
- *Crop pest and disease monitoring using remote sensing and other data Wenjiang HUANG, AIRCAS, China*
- *Agriculture disaster monitoring using remote sensing Wei SU, China Agriculture University*

- *Panel discussion: limitations and way forward to be operational*

Break for 20 min @15:00

15:20 – 17:00 **4. Capacity building and operational systems (12 min for each)**

Chair: Esther Makabe

- Capacity building through providing tools instead of training only *Hongwei ZENG, AIRCAS, China*
- *Co-production of operational food security services with Digital Earth Africa Kenneth Mubea, Digital Earth Africa*
- *Project-Driven Capacity Building for Crop Mapping in Senegal, Ivan Zvonkov, University of Maryland*
- *Successful Capacity building programs in Africa, Menghestab Haile, GEOSAS, Ethiopia*

Panel discussion: How to better meet the demand of crop related information and capacity development from developing countries

Reserves

- *The current state and developments of large-scale cropland monitoring over Russia using VEGA platform, Plotnikov Dmitry, Space Research Institute of Russian Academy of Sciences, Moscow, Russia (tbc)*
- *Developing Capacities for annual crop type mapping in Argentina, Diego de Abelleyra, INTA, Argentina,* (tbc)