GEOGLAM Launched by the G20 Agriculture Ministers

Context For GEOGLAM
Monthly Wheat Prices 1997-2022($/Metric Ton)
Source: World Bank

- 2008 Price hikes: Droughts - Australia & Ukraine
- 2010/11 Price hikes: Drought - Russia, USA
- COVID 19, Ukraine War, Persistent Drought

G20 Final Declaration

It is to improve market information and transparency in order to enhance crop production projections and weather data.
Responding to the Challenge Since 2013:

GEOGLAM CropMonitor.org

GEOGLAM CropMonitor.org
Expanding the Food Security Mandate 2016:

GEOGLAM CropMonitor.org
Crop Monitor for Early Warning
Implementing National Crop Monitors

- End-user Driven, National ownership, integrated into existing systems to meet national needs
- Enhancing regional and global information
- Standardized Global Approach for Crop Condition Monitoring

Overview
- Essential EO Variables for Climate Action
- Institutional & Technical requirements
- Open Science Resources
- Capacity co-development of National Crop monitoring systems
Rapid Response to Emerging Areas of Concern: Ukraine

- Effort to coordinate and de-conflict consensus analytical products, including:
  - Planting and Harvest progress - Extent, timing, location (SAR based - Sen1A and RCM data)
  - Crop Type/Crop Area (winter and summer crops)
  - Near-Real-Time Crop Condition
  - Field Boundary Delineation
  - Yield Assessment and Forecasting
  - In Situ cal/val data from industry partnerships

Information is provided directly to the Ukraine Ministry of Agriculture
.... and a further
Expanded Mandate

Priority Activities:
• Essential Agricultural Variables (Agvariables.org)
• Enhanced In Situ Data Coordination
• Research Network (JECAM)
• Rapid Response Facility
Concluding Thoughts

• GEOGLAM Organization
  • GEOGLAM initially created by G20 Agriculture Ministers in 2011
  • Activities funded by in kind contributions (over 90%), Secretariat funded by direct G20 countries. Community primarily built on common interest and good intent

• Factors influencing food insecurity can be expected to increase
  • Climate Extremes, Pest and crop disease, Conflict

• Earth Observation will need to play an ever increasing role to inform policies and programs

• Key actions to rise to the challenge
  • Need to continue the evolution towards open data – Transparency, Innovation, Efficiency
  • Need for sustained solutions with long term continuity