

GEOGLAM: Crop Monitor Inbal Becker-Reshef







# AMIS Agricultural Market Information System

## GEOGLAM: Group on Earth Observations Global Agricultural Monitoring Initiative

Launched alongside AMIS, by G20 in 2011 under the French Presidency, within the Action Plan on Food Price Volatility and Agriculture; re-affirmed in 2016



#### **G20 Final Declaration**

- 44. We commit to improve market information and transparency in order to make international markets for agricultural commodities more effective. To that end, we launched:
- The "Agricultural Market Information System" (AMIS) in Rome on September 15, 2011, to improve information on markets ...;
- The "Global Agricultural Geo-monitoring Initiative" (GEO-GLAM) in Geneva on September 22-23, 2011. This initiative will coordinate satellite monitoring observation sworld in order to enhance crop processing data.

  \*\*The "Global Agricultural Geo-monitoring Initiative" (GEO-GLAM) in Geneva on September 22-23, 2011. This initiative will coordinate satellite monitoring observation statements in the continue to tackle the issue of processing data.



to continue to tackle the issue of price volatility. In particular, we commit to pursue the implementation of the concrete initiatives of the 2011 G20 Action Plan on Food Price Volatility and Agriculture in dedicated forums: Agricultural Market Information System (AMIS) and the Rapid Response Forum, GEO Global Agricultural Monitoring Initiative (GEOGLAM) for market and production international monitoring, and risk management tools, such as the Platform for





#### **AMIS Request to GEOGLAM**

- Provision of monthly, transparent, timely, <u>crop condition</u> <u>assessments</u> in primary agricultural production areas
- Reflecting an <u>international consensus</u>, building on existing systems
- 4 Crops: Wheat, maize, soybean, rice
- Focus: main production/export countries (AMIS Countries)
- Output: Crop Monitor, published in Market Monitor



www.cropmonitor.org



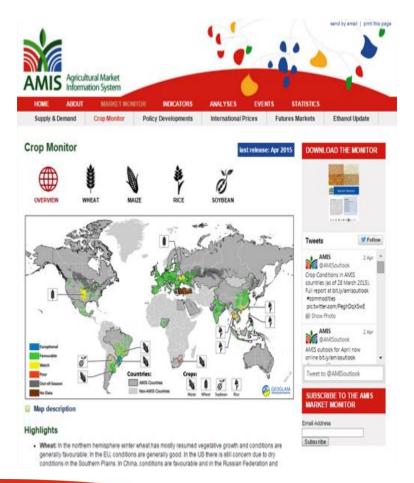
71<sup>st</sup> Session of the Committee on Commodity Problen



# AMIS: Agricultural Market Information System AMIS: Agricultural Market Information System AMIS: Agricultural Market Information System

#### Improve market information and transparency



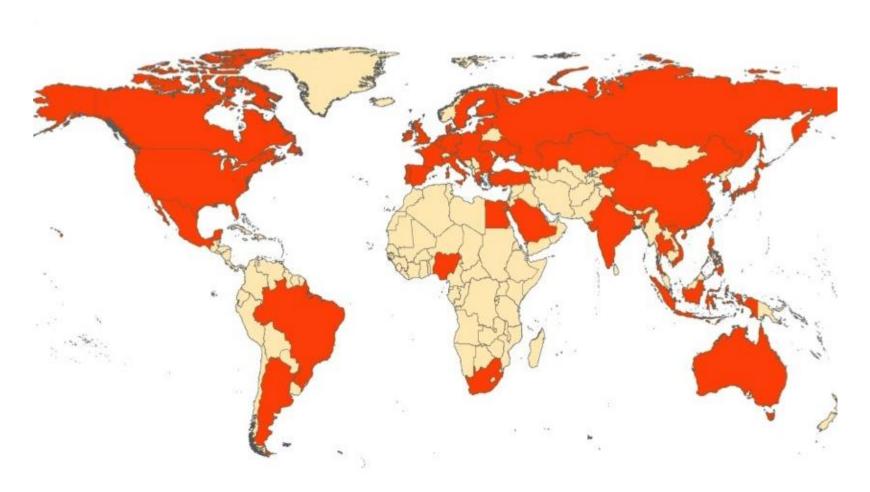






#### **AMIS Countries**

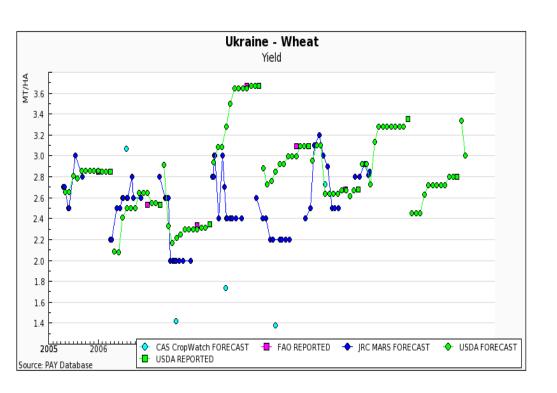
Account for close to 90% of global production of 4 main crops





#### Context: need for improved forecasts & transparency

- Within season forecasts vary between agencies
- Critical particularly in anomalous years



Colors indicate different agencies

- Squares indicate reported end of season estimates
- Circles indicate in-season forecasts

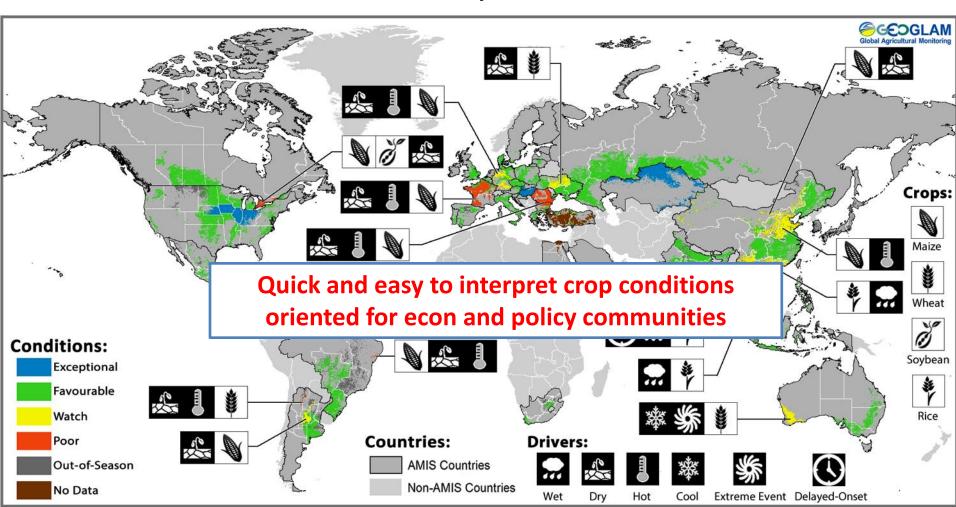
*Important Note* - This is a preliminary, unofficial version of the PAY website. All numbers published on this website are unofficial it is requested that users <u>read about the data sources</u> before using the data.





#### **Output Crop Condition Maps Covering AMIS Crops**

Conditions as of September 28th 2016



Crops that are in other than favorable conditions are displayed on the map with their crop symbol & driver.



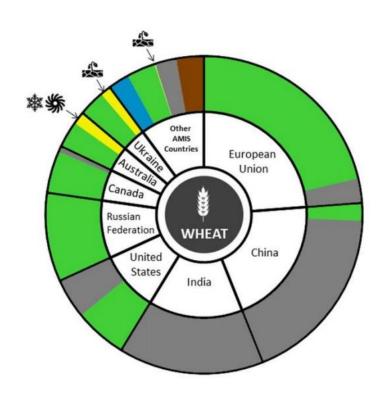
### of the Unite Crops Conditions Pie Charts by Crop

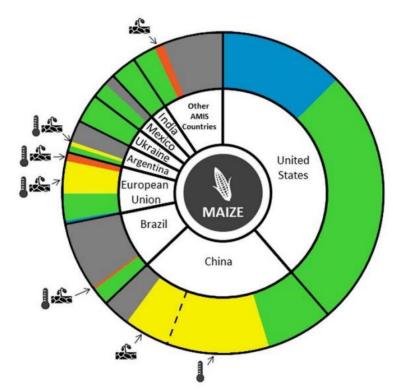


#### as share of AMIS total production









Crop Conditions as of September 28th, 2016





#### **GEOGLAM Crop Monitor Partners**

#### **40 Partners and Growing**















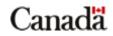








































VIENNA UNIVERSITY OF TECHNOLOGY

DEPARTMENT OF GEODESY
AND GEOINFORMATION
RESEARCH GROUPS
PHOTOGRAMMETRY & PENOTE SENSING























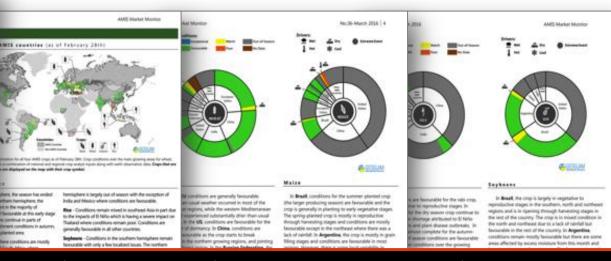




#### Crop Monitor is an integral part of AMIS Market Monitor and work

GEOGLAM became the 11th member of the AMIS Secretariat in 2016





Unsettled weather made markets for AMIS crops volatile even before the start of the turmoil associated with the UK referendum on 23 June. In the meantime, the overall supply and demand outlook for 2016/17 season has changed little since last month. In the coming months, weather is likely to play a critical role for northern hemisphere maize, soybeans and rice crops, which are several months away from harvesting. The UK's vote to leave the EU adds further uncertainty, with first shock waves already observed in financial markets.

Markets at a glan

coybeans, giving a synopsis of major market developments and the policy and other market drivers behind them. Ti Visit us at: www.amis-outlook.org

















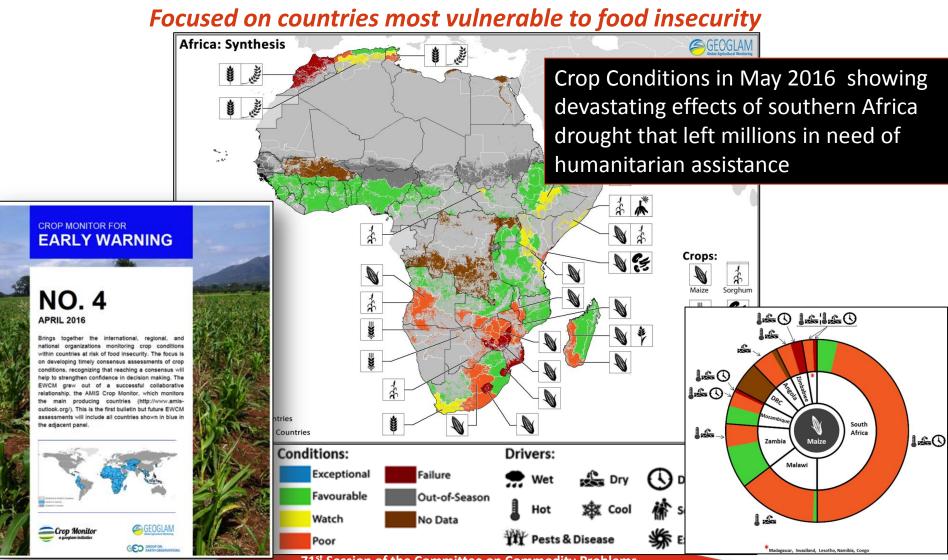




- First time the international community comes together to produce operational crop assessments with 40 contributing organizations & Ministries of Agriculture
- Strong collaboration between GEOGLAM and AMIS
- Bridging the gap between the EO and Econ communities
- Crop Monitor operational since 2013



# Gave Rise to the Early Warning Crop Monitor



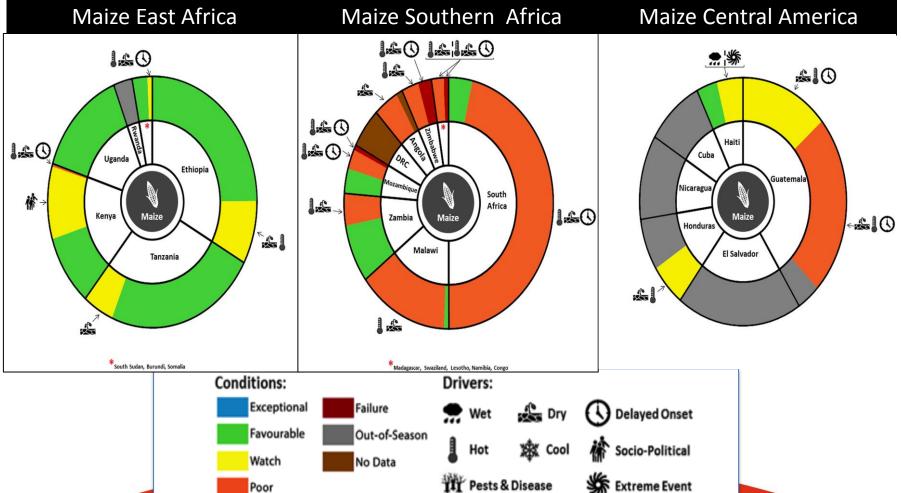
Agricultural Market Information System

### F A O

### Food and Africa May Assessment of the United Nations





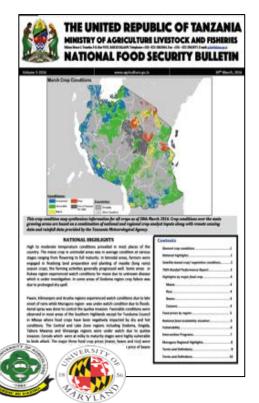


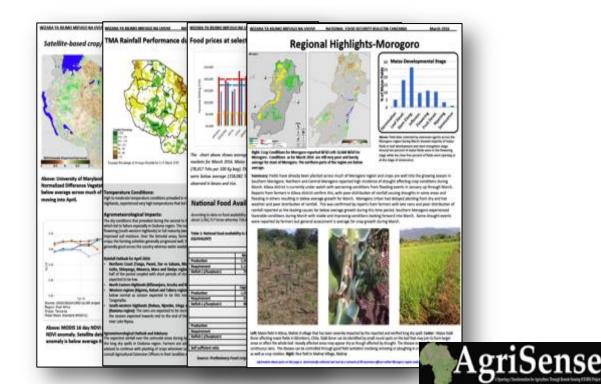


### National Crop Monitor: Tanzania Example Agricultural Market Information System

Operational since June 2016

GEOGLAM in discussion with multiple countries including Ukraine











#### **GEOGLAM Partnership with AMIS**

#### A strong and fruitful relationship that is:

- Providing public good: open, timely, science-driven information on crop condition to inform decisions and actions
- Bridging the gap between the policy/economics and the satellite earth observations communities
  - Ensuring the user community is driving the satellite monitoring agenda
- Increasing communication and knowledge transfer amongst countries and monitoring systems
  - Thereby strengthening national monitoring systems
- Critical to facilitate research to operations-validation of products, intercomparison of methods, models and systems that can be scaled up







#### **Thank You!**

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