Global Agricultural Monitoring International Coordination: GEOGLAM

Chris Justice

The Center for Agricultural Monitoring Research,

Department of Geographical Sciences,

University of Maryland, USA

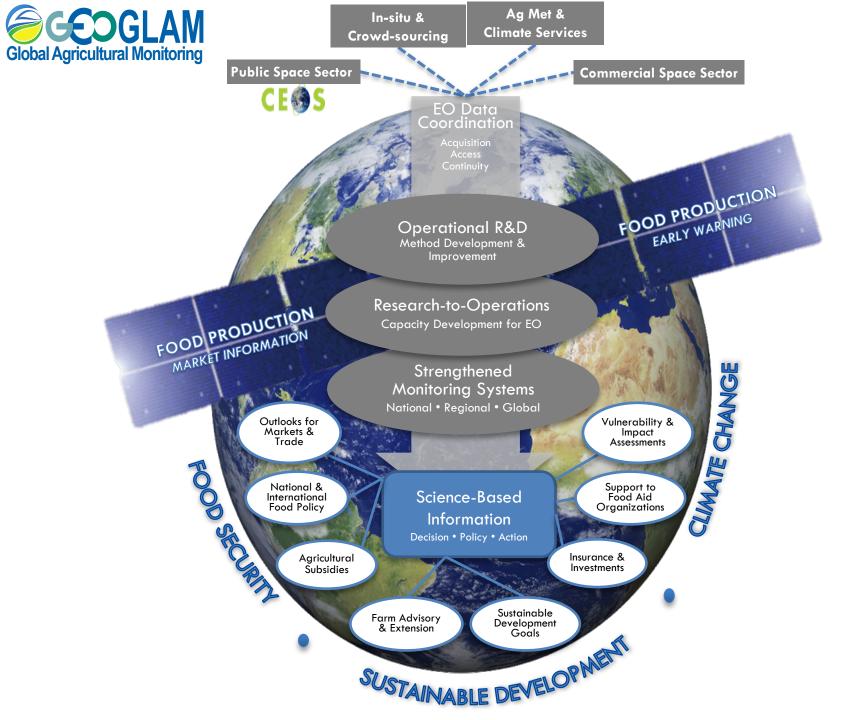






GEOGLAM: a GEO Initiative

- Vision: the use of coordinated, comprehensive and sustained Earth Observations to inform decisions and actions in agriculture... through a system of agricultural monitoring systems
- Aim: Strengthen the international community's capacity to utilize Earth Observations to produce and disseminate relevant information on agricultural production at national, regional and global scales
- Approach: Building on <u>existing</u> monitoring systems strengthening international and national capacity
- Emphasis on: producer countries (G20+), countries-at-risk and national capacity building
- <u>http://www.earthobservations.org/geoglam.php</u>



Policy Framework for GEOGLAM



G20 Final Declaration

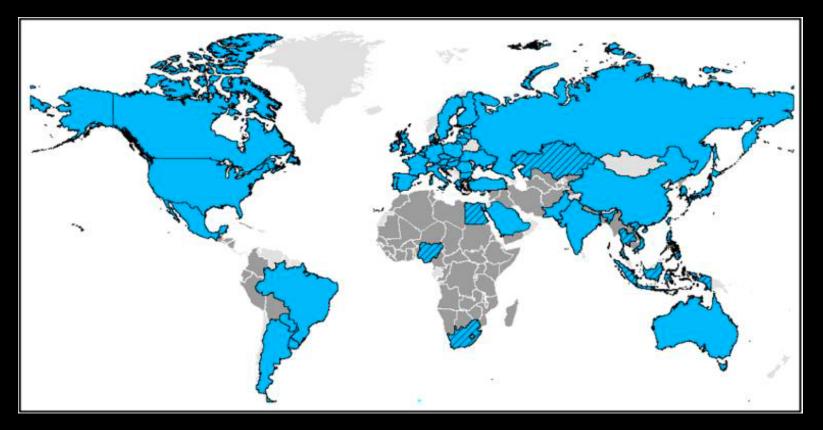
- 44. We commit to improve market information and transparency in order to make international markets for agricultural commodities more effective. To that end, we launched:
- The "Agricultural Market Information System" (AMIS) in Rome on September 15, 2011, to improve information on markets ...;
- The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







AMIS COUNTRIES









GEOGLAM AMIS Crop Monitor Partners

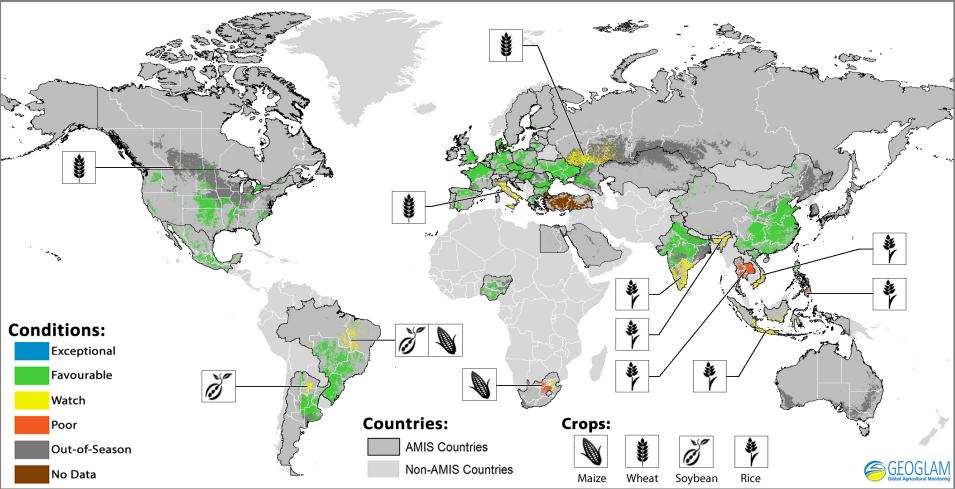








Crop Monitor : an international consensus assessment - March 28th



Crop condition map synthesizing information for all four AMIS crops. Crops that are in other than favorable conditions are displayed on the map with their crop symbol. (Cropland area shown is an aggregation of all cropland areas) Becker-Reshef et al.



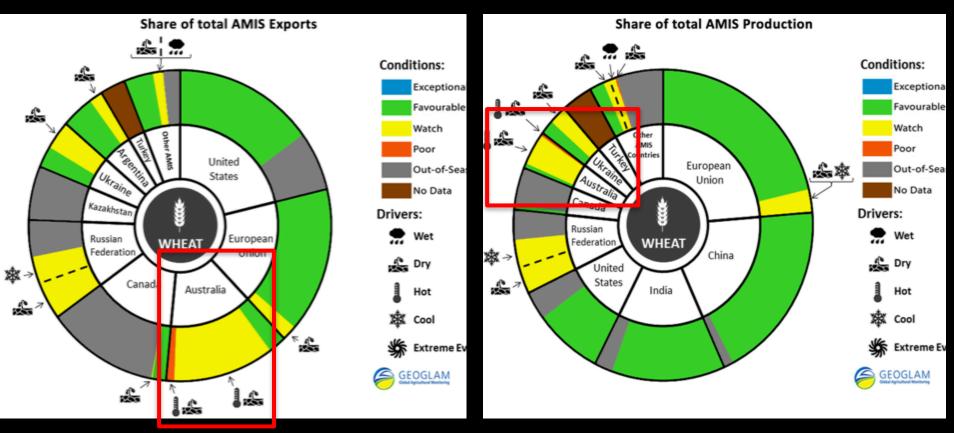




Wheat Production and Exports Pie Charts

As Share of total AMIS Exports

As Share of total AMIS Production



Crop Conditions as of October 28th, 2015







G20 Agricultural Ministers

2011 Action Plan on Food Price Volatility and Agriculture

AMIS – Markets/Stocks



http://www.amis-outlook.org/amis-monitoring

GEOGLAM – Condition/Supply

GEOGLAM CROP MONITOR FOR AMIS

NO. 38 April 2017

The Group on Earth Observations' Global Agricultural Monitorring (GEOGLAM) initiative developed the Crop Monitor whose objection is to provide AMIS with an international and transparent multi-source, consensus assessment of crop growing conditions, status, and agro-climatic conditions, likely to impact global production. This activity covers the four primary crop types (wheat, maize, rice, and soy) within the main agricultural producing regions of the AMIS countries (G20+7). The Crop Monitor reports provide cartographic and textual summaries of crop conditions as of the 28th of each month, according to crop type. There is another Crop Monitoring initiative called the Early Warning Crop Monitor (geoglam-cropmonitor.org/), which has grown out of this initiative.



https://cropmonitor.org/

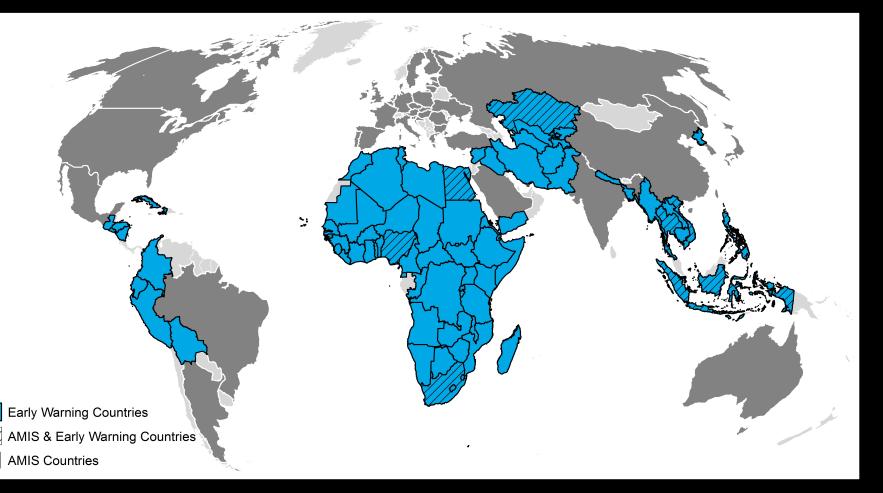








Early Warning Crop Monitor Countries









Drivers: * * *

0 1

....

0000

Crop Monitor for Early Warning

Crop Monitor for Early Warning Bulletin

www. cropmonitor.org

CROP MONITOR FOR **EARLY WARNING**

NO. 19 August 2017

The Crop Monitor for Early Warning brings together international, regional, and national organizations monitoring crop conditions within countries at risk of food insecurity. The focus is on developing timely consensus assessments of crop conditions, recognizing that reaching a consensus will help to strengthen confidence in decision making. The Early Warning Crop Monitor grew out of a successful collaborative relationship, the AMIS Crop Monitor (www.amis-outlook.org/), which monitors the main producing countries





eason started in June under ge WEST APPICA: L

No.19 – August 2017 Southern Africa

arn Africa: End.of.Sa

Crop Monitor for Early Warning No.19 - August 2017 CONTRACTOR CONTRACTOR

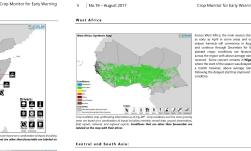
🕓 💣 👖

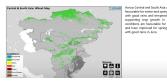
last Africa and Yemen

Fast Africa & Yemen: Maize 1 Ma

#







No.19 - August 2013

Crop Monitor for Early Warnin

Central America & Caribbean

2 4 1 幸 豢 徴

The Grop Monitar for Early Warning is a part of GEOG









Example discrepancy map

Hashed areas show conflicting crop condition entries from different agencies

East Africa & Yemen: Preliminary Maize 1 Map

July assessment had **710 entries** over **61 countries** and **39 sub national regions with crop condition discrepancies** that were discussed and ultimately we reached a <u>full consensus</u>

