



# NASA HARVEST PARTNERS AT AGU 2019



## MONDAY 12/9

TIME	PLACE	TITLE	PEOPLE
8:00- 12:20	M South - Poster	Agricultural monitoring from combined optical and SAR data	Andres Eduardo Santamaria Artigas, Sergii Skakun, Belen Franch, Jean-Claude Roger and Eric Vermote
8:00- 12:20	M South - Poster	Towards an operational framework to map crop functional and structural traits from airborne hyperspectral imagery.	Sheng Wang, Kaiyu Guan, Zihui Wang, Elizabeth A. Ainsworth, Philip A Townsend, Kaiyuan Li
8:00- 12:20	M South - Poster	Analysis of corn and soybean yield variability at field scale using VHR satellite data	Sergii Skakun, Jean-Claude Roger, Eric Vermote

## TUESDAY 12/10

TIME	PLACE	TITLE	PEOPLE
8:00 - 10:00	M West - 2007, L2	Four Decades and Counting: Earth Observations and Agricultural Monitoring I	Alyssa Whitcraft, Olaniyi Ajadi, Marcia Macedo, Matthew Fagan
8:00 - 12:20	M South - Poster	An Analysis of Bias-corrected Monthly Forecasts - Potential Perils and Improvements	Gregory Husak, Shraddhanand Shukla, Amy McNally and Chris Funk
8:15 - 8:30	M West - 2007, L2	Advancing the Uptake of Earth Observations for Informing Agricultural Decisions in Eastern Africa under the NASA Harvest and GEOGLAM Programs	Inbal Becker-Reshef, Catherine Nakalembe, Christina Justice, Brian Barker, Ritvik Sahajpal, Michael Humber, Antonio Sanchez, Sergii Skakun, Alyssa Whitcraft, Matthew Hansen, Ian Jarvis and Chris Justice
8:30 - 8:45	M West - 2007, L2	Advancing NASA's seasonal hydrologic forecasting system for improved food insecurity warning in Africa	Abheera Hazra, Kristi R Arsenault, Shrad Shukla, Amy McNally, Augusto Getirana, Christa Peters-Lidard, Sujay Kumar, Randal Koster and Kimberly Slinski
9:00 - 9:15	M West - 2007, L2	Investigating the Yield Impacts of Conservation Tillage in the US Corn Belt using Landsat	Jillian Deines, Sherrie Wang, David Lobell
9:45 - 10:00	M West - 2007, L2	Towards Global Monitoring of Key Commodity Crops Using Multi-Source Data	Matthew Hansen, Peter Potapov, Xiao-Peng Song, Viviana Zalles, Bernard Adusei, Jeffrey Pickering, Andre Lima and Marcos Adami

10:20 - 10:35	M West - 2007, L2	Multi-decadal expansion of intensive cropland land use in South America	Viviana Zalles, Matthew Hansen, Peter Potapov, Andre Lima and Marcos Adami
10:20 - 12:20	M West - 2007, L2	Four Decades and Counting: Earth Observations and Agricultural Monitoring II	Alyssa Whitcraft, Olaniyi Ajadi, Marcia Macedo, Matthew Fagan
11:05 - 11:20	M West - 2018, L2	A Global Agricultural Monitoring (GLAM) Use Case to Evaluate Amazon Web Services for Near-Real Time Decision Support	Alyssa Whitcraft, Michael Humber, John Keniston, Dan O'Neill and Inbal Becker-Reshef
11:12 - 11:22	M South - 301-302, L3	Leveraging Earth Observations in agriculture monitoring. Building a sustained capacity development model based on Remote Sensing in Eastern Africa	Catherine Lilian Nakalembe, Inbal Becker-Reshef, Jan Dempewolf, Lilian Ndungu and Kenneth Mwangi
11:20 - 11:35	M West - 3014, L3	Latest Climate Hazards Center (CHC) products for drought and agro-climatological monitoring and forecasting: AGMERC, CHIRPS v2.1 and CHIRPS-GEFS	Pete Peterson, Christopher Funk, George John Huffman, Martin Francis Landsfeld, Alexander Ruane, Ashutosh Limaye, Meridel Phillips and Gregory Husak
11:50 - 12:05	M West - 2007, L2	Agriculture Remotely-Sensed Yield Algorithm (ARYA): Application to Winter Wheat	Belen Franch, Eric Vermote, Sergii Skakun, Jean-Claude Roger, Inbal Becker-Reshef and Christopher Justice
12:05 - 12:20	M West - 2007, L2	Reliably forecasting field-scale crop yields through optimizing number and location of crop cuts: A case study in Ukraine	Ritvik Sahajpal, Sylvain Coutu, Gregoire Tombez, Inbal Becker-Reshef
12:30 - 13:30	M West - 2002, L2	NASA Earth Science Division Town Hall	Jack Kaye, Sandra Cauffman, Paula Bontempi, Eric Ianson, Lawrence Friedl, Pamela Millar and Patricia Jacobberger-Jellison
13:40 - 15:40	M West - 3012, L3	Mapping and Modeling the Food-Energy-Water Nexus: New Methods and Synergies I	Jillian Deines, Hatim M.E. Geli, Jesslyn F Brown, Gabriel Senay
13:40 - 18:00	M South - Poster	Evaluation of soil-dependent crop yield outcomes in Nepal using ground and satellite-based approaches	Jake Campolo, David Lobell, David Gere and Shashish Maharjan
13:40 - 18:00	M South - Poster	Improving satellite-based soybean yield mapping across irrigated and rain-fed conditions	Walter Dado, Jillian Deines and David Lobell
13:40 - 18:00	M South - Poster	Insights into Effective Satellite Crop Yield Estimation from Extensive Ground Truth Dataset in US Corn Belt	Jillian Deines, Walter Dado, Rinkal Patel and David Lobell
13:40 - 18:00	M South - Poster	Four Decades and Counting: Earth Observations and Agricultural Monitoring III Posters	Alyssa K Whitcraft, Matthew E Fagan, Olaniyi Ajadi and Marcia Macedo

<b>13:40 - 18:00</b>	M South - Poster	The use of Earth Observation data for agricultural condition monitoring at sub-national scale in Argentina	Estefania Puricelli, Ritvik Sahajpal, Brian Barker, Inbal Becker-Reshef, Juan Martin Brihet, Esteban Julian Copati, Santiago Rossi, Juan Pablo Gianatiempo, Martin Lopez and Sergii Skakun
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### WEDNESDAY 12/11

TIME	PLACE	TITLE	PEOPLE
<b>8:00 - 12:20</b>	M South - Poster	Mapping and Modeling the Food-Energy-Water Nexus: New Methods and Synergies II Posters	Jillian M Deines, Kamini Yadav, Hatim M.E. Geli and Jesslyn F Brown
<b>8:00 - 12:20</b>	M South - Poster	Strengthening agricultural decisions in countries at risk of food insecurity: The GEOGLAM Crop Monitor for Early Warning.	Christina Justice, Inbal Becker-Reshef, Brian Barker, Michael Humber, Antonio Sanchez, Catherine Nakalembe, Felix Rembold, Rogerio Bonifacio, Mario Zappacosta, Shinichi Sobue, Kenneth Mwangi, Jim Verdin
<b>8:00 - 12:20</b>	M South - Poster	Detecting in-season crop nitrogen stress of corn for field trials using UAV- and CubeSat-based multispectral sensing	Yaping Cai, Kaiyu Guan, Emerson D Nafziger, Girish Chowdhary, Bin Peng, Zhenong Jin, Shao-Wen Wang and Sibow Wang
<b>9:00 - 9:15</b>	M West - 3000, L3	Application of subseasonal climate forecasts for improving food insecurity early warning in West Africa	Shraddhanand Shukla, Alkhalil Adoum, Gregory J Husak, Frank Davenport, William Turner, Kathryn Grace, Christopher Funk and Amy McNally
<b>16:03 - 16:11</b>	M West - 2007, L2	Leveraging Earth Observations to Inform Early Action and Policy, in Support of Food Security	Inbal Becker-Reshef, Christina Justice, Catherine Nakalembe, Brian Barker, Ritvik Sahajpal, Michael Laurence Humber, Alyssa K Whitcraft, Estefania Puricelli, Sylvain Coutu, Tom Dienya, Martin Owor and Christopher Justice
<b>16:15 - 16:30</b>	M West - 3005, L3	Inter-annual Changes in Carbon Balance on U.S Croplands	Varaprasad Bandaru, Curtis Dinneen Jones, Raghu Yaramasu, Fernando Sedano, Jiaying He, Ashwan Reddy, Ritvik Sahajpal, Sergii Skakun, George Hurtt and Roberto C Izaurralde
<b>16:58 - 17:06</b>	M West - 2007, L2	Measuring and unpacking smallholder agricultural risks using fine resolution satellite data	David B Lobell and Zhenong Jin

### THURSDAY 12/12

TIME	PLACE	TITLE	PEOPLE
<b>8:00 - 8:15</b>	M West - 2018, L2	Bringing the community to the data and the data to the community: GEOGLAM efforts to transform Earth observations into actionable information	Alyssa K Whitcraft, Sven Jan, Bert Gilliams, Ian Jarvis, Pierre Defourny, Sophie Bontemps, Andrew Nelson, Inbal Becker-Reshef and Christopher Owen Justice

8:00 - 12:20	M South Poster	Assessing the use of Canadian Precipitation Analysis Data for Monitoring and Modelling the Impacts of Weather on Agricultural Production	Catherine Champagne, Marilee Pregitzer, Richard Warren
10:20 - 10:30	M West - 2007, L2	Hydrologic Monitoring in Afghanistan to Support Food and Water Security Decision Making	Amy McNally, Md Shahriar Pervez, Augusto Getirana, Andrew Hoell, Kimberly Slinski, Gregory Husak, Harikishan Jayanthi and Christa Peters-Lidard
10:50 - 11:05	M West - 2018, L2	Mapping Crop Types in India with Crowdsourced Data and Deep Learning	Sherrie Wang, Stefania Di Tommaso, Joey Faulkner, Thomas Friedel, Alexander Kennepohl, Robert Strey and David Lobell
12:30 - 13:30	M West - 2008, L2	How Can Public-Private Partnerships Use Earth Observations to Tackle Global Agricultural Challenges?	Alyssa K Whitcraft, Keely Roth, Anu Swatantran, Sylvain Coutu, Inbal Becker-Reshef, and Steven Ward

## FRIDAY 12/13

TIME	PLACE	TITLE	PEOPLE
8:00 - 12:20	M South - Poster	Improved Forecast of End-of-Season Crop Water Deficits	Will Turner, Gregory Husak, Charles Jones, Rogerio Bonifacio and Mike Hobbins
13:40 - 15:40	M South - Poster	Toward Generalized Change Detection on Planetary Surfaces with Deep Learning	Hannah Rae Kerner, Kiri Wagstaff, Brian Bue, Patrick Clifton Gray, James F Bell III and Heni Ben Amor
14:25 - 14:40	M West - 2010, L2	Enabling access and usage of earth observations in environmental decision making in Eastern and Southern Africa through capacity building	Shraddhanand Shukla, Denis Macharia, Gregory Husak, Christopher Funk, Martin Landsfeld, Michael Ngugi Kimani, Patrick Kabatha, Pete Peterson, Emily Adams
16:00 - 18:00	M South eLightning II	NASA Earth Science Partnerships – Lessons Learned in Measuring, Managing, and Maturing Public-Private Partnerships in the Earth Sciences	Jamie Favors, Sandra Cauffman, Jack Kaye, Eric Ianson, Lawrence Friedl, William Turner, Keith Gaddis, Kevin Murphy, Amanda Whitehurst, David Green, Shanna McClain, Tsengdar Lee and Daniel Bader
16:00 - 18:00	M South eLightning II	Pathways to a New Agricultural Revolution: NASA Harvest Exploring New Models for Public Private Partnerships in Earth Observations for Agriculture	Alyssa K Whitcraft, Sylvain Coutu and Inbal Becker-Reshef