



**WORKSHOP ON AGRICULTURE APPLICATIONS OF NASA WATER DATA**  
**AUGUST 1<sup>ST</sup>, 2017**  
**8:30AM – 5:00PM**

World Resources Institute  
10 G St NE #800, Washington, DC 20002

## **Overview**

This one-day workshop hosted by NASA and the World Resources Institute will focus on the current applications and potential opportunities for use of satellite-based water resource data and other tools to support decision making in the context of agricultural management and food security. The workshop welcomes participants concerned with the management of water resources in support of agriculture in the fields of disaster relief and food aid, supply chain management, and agricultural water use. This workshop is free, though registration is required at the website (<https://pmm.nasa.gov/meetings/2017-gpm-agricultural-applications-workshop>). There will be a remote participation option available via the website.

The objectives of this workshop are three-fold:

1. Increase awareness of relevant NASA water data products (e.g. precipitation, soil moisture) and WRI (and other) open data platforms that act as intermediary sites for sharing NASA and other data in user-friendly formats;
2. Discuss data gaps, barriers to using existing data, and opportunities for more effective exploitation of remote sensing products; and
3. Establish two-way dialogues to engage on projects and activities across the agricultural sector, as well as emerging remote sensing products and tools that may useful for these communities.

## **Panel Discussion Themes**

- **Disaster Relief and Food Aid:** Examine on how risk assessment and decision making for providing food and other types of aid in response to active or ongoing water-related disasters is or could be better informed with the use of remotes sensing information. This discussion will also outline existing tools and platforms that provide situational awareness of current global agricultural production to support early interventions.
- **Supply Chain Management:** Discuss how agricultural monitoring organizations and corporations use geospatial data to increase resilience in their supply chains, focusing on how Earth observation and remote sensing data may help to identify, quantify, and mitigate water-related risks in global agriculture supply chains.
- **Water Resource Management for Agriculture:** Outline current critical issues domestically and internationally relating to providing water resources for agriculture

while responding to broader community water needs. This panel will also look towards the future to consider the role of science, technology, business, policy, development, and other communities to increase global and local resilience in water management for agriculture.

### Working Agenda

Time	Description	Speaker
8:30 - 9:00	Registration & Coffee	
<b>Introductions and Overview</b>		
9:00 – 9:15	Greetings and Workshop Purpose	NASA and WRI introduction and welcome
9:15 – 9:30	Introduction to NASA Food Security and Agriculture activities	Danielle Wood, NASA
9:30 – 9:45	Introduction to GPM and Data Products	Gail Skofronick-Jackson, NASA GSFC
9:45 – 10:00	JAXA’s GPM Agricultural Applications	Hiroyuki "Hiro" Iwamoto, JAXA
10:00 – 10:15	Overview of WRI engagement with Earth Observation Data	Janet Ranganathan, WRI
10:15 – 10:20	Discussion and Q&A	All speakers
10:20 – 10:40	Break	
	<b>Speaker</b>	<b>Affiliation</b>
<b>Panel 1: Disaster Relief and Food Aid</b>		
10:40 – 10:45	Introduction to Panel 1	Facilitator: Dalia Kirschbaum, NASA
10:45 – 11:15	Jim Verdin	Famine Early Warning System-Net (FEWS-NET), U.S. Agency for International Development
	Jack D. May	Global Water and Environmental Security Analyst Defense Intelligence Agency (DIA), Pentagon
	Pierluigi Sinibaldi	Resilience & Disaster Risk Reduction Specialist, OXFAM
11:15 – 11:40	Panel facilitated discussion	All panelists & panel facilitator
11:40 – 11:45	Set up next panel	
<b>Panel 2: Supply Chain management</b>		
11:45 – 11:50	Introduction to Panel 2	Facilitator: Charlie Iceland, WRI
11:50 – 12:10	Chris Justice	University of Maryland, Center for Global Agricultural Monitoring Research
	Greg Jason	Assistant Vice President, Corporate Environment, Health and Safety, Cargill
12:10 – 12:40	Panel facilitated discussion	All panelists & panel facilitator
12:40 – 1:45	Lunch Break	

<b>Panel 3: Water Resource Management for Agriculture</b>		
1:45 – 1:50	Introduction to Panel Plenary	Facilitator: John Bolten, NASA
1:50 – 2:20	Edward Bresnyan	Agriculture Global Practice Group, The World Bank
	Robert Tetrault	Deputy Director, Foreign Agricultural Service, International Production Assessment Division, USDA
	Sara Walker	Water Program, WRI
2:20 – 2:45	Panel facilitated discussion	All panelists & panel facilitator
Break and move to breakout sessions		
2:45 – 3:40	Breakout Sessions <b>WebEx capabilities will not be available during this session.</b>	
	<ul style="list-style-type: none"> <li>• <u>Session 1: Disaster Relief and Food Aid</u>: Moderator – Jim Verdin</li> <li>• <u>Session 2: Supply Chain management</u>: Moderator – Paul Reig</li> <li>• <u>Session 3: Water Resource Management for Agriculture</u>: Moderator – Brad Doorn</li> </ul>	
3:40 – 3:50	Reconvene	
3:50 – 4:00	Presentation from Breakout Sessions	Breakout session leads
4:00 – 4:45	<b>Keynote Presentation:</b>	
	Stanley Wood, Senior Program Officer for Agricultural Development Program, Gates Foundation  Steve Brumby, Chief Technology Officer & Cofounder – Descartes Labs	
4:45 – 5:00	Discussion, Feedback and Wrap-up: Actions, Future Workshops	Dalia Kirschbaum and Janet Ranganathan
5:00 – 6:00	Cocktail Reception	

**Breakout description:** These sessions will give participants and opportunity to further engage on the topics outlined in the panel. Each breakout session will be asked to address three questions and report back on the discussion to the group following the breakout:

1. How are you using the data right now, where do you see you could use this data?
2. Where do you see there are still big data gaps?
3. What are some barriers to access?