Joint Research Centre

University of Colorado

Third Workshop of the Global Flood Working Group (4-6 March, 2013)

Workshop Agenda

Day 1 - March 4, 2013	Global flood observation		
8:30 - 9:00	**Registration** (Location: UMD/ESSIC, M-Square Bldg., 4th Floor, Room #4102)		
Session 1	**Introduction and overview**		
9:00 - 9:10	Robert Adler, Antonio Busalacchi	UMD/ESSIC	Welcome
9:10 - 9:25	Tom De Groeve	JRC	Global Flood Working Group and purpose of workshop
9:25 - 9:40	Robert Brakenridge	DFO	Introduction on global flood observation
Session 2	**Near real-time flood extent mapping**		
9:40 - 10:00	Frederick Policelli, Daniel Slayback	NASA/GSFC	NASA Real-time MODIS Mapping
10:00 - 10:20	**Coffee break**		
Session 3	**Near real-time flood extent mapping (cont'd)**		
10:20 - 10:40	Stuart Frye	NASA/GSFC	NASA Satellite Coverage for Disasters
10:40 - 11:00	(Patrick Matgen) Guy Schumann	CRPGL	Automatic Synthetic Aperture Radar-based Flood Mapping Application at ESA
11:00 - 11:20	Shanlong Lu	IRSA	Flood Monitoring with China's Resources, Environment, and Weather Satellite Images
11:20 - 11:40	Kevin Dobbs	U. of Kansas	Rapid Flood Extent Estimation with GFDS
11:40 - 12:00	**Discussion**		
12:00 - 1:30	**Lunch**		
Session 4	**Flood measurement using passive microwave remote sensing**		
1:30 - 1:50	Robert Brakenridge, Son Nghiem	DFO, NASA JPL	How large is this flood?
1:50 - 2:10	Graziela Balda Scofield	CEMADEN	A Study Case Using GFDS in Detection of Floods in Brazil
2:10 - 2:30	Tom Hopson	UCAR	Assimilation of GFDS in Hydrological Models
2:30 - 2:50	Tom De Groeve	JRC	GFDS Flood Index: Measuring Flood Impact
2:50 - 3:20	**Discussion**		
3:20 - 3:50	**Coffee break**		
Session 5	**Exercise: Real-time flood risk and impact assessment**		
3:50 - 5:00	Demo session	Accessing and using scientific or pre-operational data (demo's and hands-on session)	
5:00 - 5:20	Robert Brakenridge	Summary of day	
5:30 - 6:30	**Reception**		

Day 2 - March 5, 2013		**Forecasting and modelling**	
8:30 - 8:40	Robert Adler	UMD/ESSIC	Introduction on global forecasting and modelling
Session 6	**Satellite rainfall estimation**		
8:40 - 9:00	George Huffman	NASA/GSFC	Overview of Current Global Precipitation Products and GPM
9:00 - 9:20	Robert Kuligowski	NOAA/NESDIS	Operational NESDIS Products for Global Flood Forecasting
9:20 - 9:40	Dennis Lettenmaier	U. of Washington	Evaluation of TMPA Real-time Precipitation for Global Hydrologic Prediction
9:40 - 9:50	**Discussion**		
9:50 - 10:10	**Coffee break**		
Session 7	**Hydrologic modeling systems for global application**		
10:10 - 10:30	Yu Zhang	NOAA	Assimilation of Satellite Precipitation Estimates and Streamflow into Distributed Hydrologic Models for Flood Prediction
10:30 - 10:50	Yang Hong	U. of Oklahoma	Global and Regional Flood and Prediction
10:50 - 11:10	Guy Schumann	NASA/JPL	Flood Inundation Forecasting and Modeling in the Lower Zambezi Case Study
11:10 - 11:30	Mark Jourdan	USACE	USACE Experience in Supporting International Hydrologic Emergencies
11:30 - 11:50	Kris Shrestha	GA Tech	Flood Forecasting in South Asia
11:50 - 12:00	**Discussion**		
12:00 - 1:30	**Lunch**		
Session 8	**Hydrologic modeling systems for global application (cont'd)**		
1:30 - 1:50	Elena Cristofori	Ithaca	ERDS: A Step Towards an Effective Alerts Dissemination
1:50 - 2:10	Sezin Tokar	USAID/OFDA	Establishing a Global Flash Flood Forecasting System
2:10 - 2:30	Jun Magome	U. of Yamanashi, ICHARM	A Prototype Flood Forecasting and Alert System “Global Flood Alert System - Streamflow”
2:30 - 2:50	Robert Adler	UMD/ESSIC	Real-time Global Flood Estimation Using Satellite Rainfall and a Hydrological Model
2:50 - 3:10	Lorenzo Alfieri	ECMWF	GloFAS Ensemble Etreamflow Predictions: Results from a 2-year Verification Period
3:10 - 3:20	**Discussion**		
3:20 - 3:40	**Coffee break**		
3:40 - 4:00		Comments from “User” groups	
Session 9	**Exercise: Case study, Mozambique 2013**		
4:00 - 4:30	Break-out sessions	Reconstructing the timeline of available information and decisions. Three groups: (1) forecasting, (2) observation, (3) response	
4:30 - 5:00	Adler et al.	Break-out results	
5:00 - 5:15	Robert Adler	Summary of day	
7:00	**Social dinner**		

Day 3 - March 6, 2013	**Bridging the gap between science and operations: risk, warning and monitoring**		
8:30 - 8:45	Tom De Groeve	JRC	Introduction on science-based decision making in humanitarian flood response
Session 10	**Flood risk and global flood archives**		
8:45 - 9:05	Nicki Villars	Deltares	Developing a Satellite-based Global Flood Archive
9:05 - 9:25	Hessel Winsemius	Deltares	Global Modelling of Flood Hazard and Risk at 1 kilometer Scale
9:25 - 9:45	Jon Gottschalk	NOAA	The CPC Global Tropics Hazards and Benefits Outlook
9:45 - 10:15	**Discussion**		
10:15 - 10:40	**Coffee break**		
Session 11	**Bridging the gap between science and operations**		
10:40 - 11:00	Frank Raes	JRC	From science to operational use: experience from continental flood forecasting and detection systems for crisis management and response
11:00 - 11:20	Ana Prados, Amita Mehta	NASA/GSFC	NASA's Applied Remote Sensing Training Program (ARSET): Building Capacity for Flood Monitoring
11:20 - 11:40	Heather Bell	PDC	Disaster Aware: Alerting for the General Public
11:40 - 12:00	Erwin Wolters	HKV	Flood Hazard Assessment in the White Volta Basin
12:00 - 1:30	**Lunch**		
Session 12	**Bridging the gap between science and operations (cont'd)**		
1:30 - 1:50	Nate Smith	ICFI	Exploring and Cultivating Demand for Flood Hazard Information Products
1:50 - 2:10	Rita Cestti	World Bank OPSOR	Use of science and technology for Integrated Flood Risk Management at the World Bank
2:10 - 2:30	Alanna Simpson	World Bank GFDRR	Post-disaster damage assessment using remotely sensed data for PDNA
2:30 - 2:50	Edward Beighley	FM Global	Assessing Global Flood Hazards: Engineering and Insurance Applications
2:50 - 3:10	Sarah Telford	OCHA	Use of scientific data in OCHA operations
3:10 - 3:40	**Coffee break**		
3:40 - 4:00	Rashid Kashif, Emily Niebuhr	WFP	Use of scientific data in WFP preparedness and response to flood disasters
4:00 - 4:30	**Discussion**		
Session 13	**Wrap-up session**		
4:30 - 5:00	De Groeve, Adler, Brakenridge	Summary of workshop outcomes, future objectives, meeting 2014	
5:00	**Workshop ends**		

More information
More information is (or will be) available on the workshop web page http://portal.gdacs.org/globalfloods2013.aspx Make sure to get a copy of - Abstracts and biographies - Integrated Global Flood Map (for demo session on first day, see also http://dma.jrc.it/map?application=floods) These documents will not be distributed in paper format during the workshop. Please print a copy beforehand. General information and outcomes of previous workshops (including agreed actions) are available on the website of the Working Group http://portal.gdacs.org/globalfloods.aspx