Global Flood Partnership 2017 Conference

Theme: From hazards to impacts
Day 1: 27 June 2017
Chair: Peter Salamon

8:15: Buses depart from hotels (Home2, Indigo, Embassy Suites)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>Registration</td>
</tr>
<tr>
<td>9:00 – 9:30</td>
<td>Welcome &amp; Introduction&lt;br&gt;Chairs GFP: Peter Salamon &amp; Sagy Cohen</td>
</tr>
<tr>
<td>9:30 – 10:20</td>
<td>Ignite Talks: Global Flood Partnership in Action&lt;br&gt;See the talks below (5min each)</td>
</tr>
<tr>
<td>10:20 – 11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00 – 11:20</td>
<td>Presentation of the National Water Center&lt;br&gt;Ed Clark</td>
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<tr>
<td>11:20 – 12:30</td>
<td>GFP marketplace&lt;br&gt;See the program below</td>
</tr>
</tbody>
</table>

12:30– 14:00: Lunch break & Tour of the National Water Center

<table>
<thead>
<tr>
<th>14:00– 15:00</th>
<th>Presentations – Session 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00 – 14:20</td>
<td>A global flood frequency map derived from &gt;10 years of Synthetic Aperture Radar data: concept and first results&lt;br&gt;Patrick Matgen, LIST</td>
</tr>
<tr>
<td>14:40 – 15:00</td>
<td>Earth Observations from Global to Regional Scales for Disaster Risk Reduction and Response&lt;br&gt;David Green, NASA</td>
</tr>
</tbody>
</table>

15:00 – 15:30: Coffee break

15:30 – 17:30: Workshop: Flash Floods - Actions and Forecasts<br>Organizers: Andrew Kruczkiewicz (IRI/ RCRCC), Calum Baugh (ECMWF), JJ Gourley (NOAA/National Severe Storms Laboratory)<br>Workshop: Integration of Global Flood Information - satellite, models, gauges and more<br>Organizers: Robert Adler (University of Maryland), Robert Blevins (Meteorological Connections, LLC)

17:30: Buses depart to hotels (Home2, Indigo, Embassy Suites)

18:30: Buses depart from hotels (Home2, Indigo, Embassy Suites) to dinner

19:00 - 21:00 Conference Dinner at the Alabama Museum of Natural History

21:00: Buses depart to hotels (Home2, Indigo, Embassy Suites)

Hosted by: NOAA Office of Water Prediction in collaboration with UCAR/COMET and the University of Alabama
# Global Flood Partnership 2017 Conference – 27-29 June 2017

## Day 2: 28 June 2017

Chair: Robert Brakenridge  

8:30: Buses depart from hotels (Home2, Indigo, Embassy Suites)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 10:00</td>
<td>Presentations – Session 2</td>
<td></td>
</tr>
<tr>
<td>9:00 – 9:20</td>
<td>The NASA Global Flood Mapping System</td>
<td>Fritz Policelli, NASA</td>
</tr>
<tr>
<td>9:20 – 9:40</td>
<td>From flood forecast to flood impact maps</td>
<td>Jim Nelson, Brigham Young U.</td>
</tr>
<tr>
<td>9:40 – 10:00</td>
<td>Quantitative impact-based multi-model Early Warning System</td>
<td>Roberto Rudari, CIMA</td>
</tr>
<tr>
<td>10:00 - 10:20</td>
<td>Poster Ignite Session</td>
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<tr>
<td>10:20 – 11:00</td>
<td>Poster Session (Coffee served)</td>
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<tr>
<td>11:00 – 12:00</td>
<td>Presentations – Session 3</td>
<td></td>
</tr>
<tr>
<td>11:00 – 11:20</td>
<td>Global projections of river flood risk in a warmer world</td>
<td>Lorenzo Alfieri, EC JRC</td>
</tr>
<tr>
<td>11:40 - 12:00</td>
<td>Understanding the opportunities and challenges in the coastal cities in Akwa Ibom state, Nigeria in a changing climate</td>
<td>Okuku Ediang, Nigerian Met. Ag.</td>
</tr>
</tbody>
</table>

12:00 - Group photo  
12:00 – 13:30: Lunch break & Posters & Tour of the National Water Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop:</th>
<th>Workshop:</th>
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</thead>
<tbody>
<tr>
<td>13:30 – 15:30</td>
<td>Web platforms and open source tools for large scale forecasting and monitoring</td>
<td>Satellite Earth Observation-based flood mapping</td>
</tr>
<tr>
<td></td>
<td>Organizers: Alan Snow (US Army Engineer R&amp;D Center), Jim Nelson, Michael Souffront (Brigham Y. Uni.)</td>
<td>Organizers: (tbc) Patrick Matgen (Luxembourg Institute of Science and Technology), Albert Kettner (DFO)</td>
</tr>
<tr>
<td>15:30 – 16:00</td>
<td>Coffee break</td>
<td></td>
</tr>
<tr>
<td>16:00 – 17:30</td>
<td>Problem-solving session: What can the GFP do for you?</td>
<td>Andrew Kruczkiewicz</td>
</tr>
</tbody>
</table>

17:30: Buses depart to hotels (Home2, Indigo, Embassy Suites)

Hosted by: NOAA Office of Water Prediction in collaboration with UCAR/COMET and the University of Alabama
Day 3: 29 June 2017  
Chair: Mark Trigg

8:30: Buses depart from hotels (Home2, Indigo, Embassy Suites)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 – 10:00</td>
<td>Presentations – Session 4</td>
<td>Speaker</td>
</tr>
<tr>
<td>9:00 - 9:20</td>
<td>Continental modeling at flash flood scale across the U.S.</td>
<td>JJ Gourley, NOAA</td>
</tr>
<tr>
<td>9:20 - 9:40</td>
<td>Global Flash Flood Forecasting from the ECMWF Ensemble</td>
<td>Calum Baugh, ECMWF</td>
</tr>
<tr>
<td>9:40 - 10:00</td>
<td>High-Resolution Flood Mapping at Regional to Continental Scales</td>
<td>Michael Follum, Coastal and Hydraulics Lab</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td>National Water Center Summer Institute– program overview and interactions</td>
<td>Sagy Cohen, Jim Nelson, Sarah Praskievicz</td>
</tr>
<tr>
<td>10:30 – 11:00</td>
<td>Coffee break &amp; Posters</td>
<td></td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>From hazard to impacts: discussion focused on the future of the GFP - Break up sessions</td>
<td>Roberto Rudari</td>
</tr>
<tr>
<td>12:30 – 14:00</td>
<td>Lunch break &amp; Posters</td>
<td></td>
</tr>
<tr>
<td>14:00 – 14:30</td>
<td>Reporting of outcomes from workshops and problem solving session</td>
<td>Workshop leaders &amp; Problem solving session leader</td>
</tr>
<tr>
<td>14:30 – 15:00</td>
<td>Summary, conclusions, way forward, AOB for the partnership</td>
<td>Peter Salamon &amp; Robert Brakenridge</td>
</tr>
<tr>
<td>15:00</td>
<td>Closure of the meeting</td>
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</table>

15:00: Buses depart to hotels (Home2, Indigo, Embassy Suites)
**Ignite Talks (27 June 2017 9:30 – 10:20)**

**Speakers program**

<table>
<thead>
<tr>
<th>#</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>9:30 – 9:35</td>
<td>Impact based forecasting</td>
<td>Albrecht Weerts, Deltares</td>
</tr>
<tr>
<td>2</td>
<td>9:35 - 9:40</td>
<td>The need for regular monitoring and prediction of ephemeral water bodies in SERVIR regions</td>
<td>Eric Anderson, U. Alabama</td>
</tr>
<tr>
<td>3</td>
<td>9:40 - 9:45</td>
<td>Update/Global Flood Monitoring System</td>
<td>Robert Adler, U. Maryland</td>
</tr>
<tr>
<td>5</td>
<td>9:50 - 9:55</td>
<td>Flood mapping for index-based disaster risk transfer and insurance mechanisms</td>
<td>John Galantowicz, AER</td>
</tr>
<tr>
<td>6</td>
<td>9:55 - 10:00</td>
<td>GloFAS: a global flood awareness tool available to all</td>
<td>Christel Prudhomme, ECMWF</td>
</tr>
<tr>
<td>7</td>
<td>10:00 - 10:05</td>
<td>Experiments in the validation of global flood hazard models for two African countries</td>
<td>Mark Trigg, U. Leeds</td>
</tr>
<tr>
<td>8</td>
<td>10:05 - 10:10</td>
<td>A Global Database of Historic Flood Events</td>
<td>Colin Doyle, Cloud to Street</td>
</tr>
<tr>
<td>10</td>
<td>10:15 - 10:20</td>
<td>The NOAA Joint Polar Satellite System Flood Product</td>
<td>Bill Sjoberg, NOAA JPSS Program</td>
</tr>
</tbody>
</table>
### GFP marketplace (27 June 2017 11:20 – 12:30)

<table>
<thead>
<tr>
<th>Title</th>
<th>Moderators</th>
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</thead>
<tbody>
<tr>
<td>GLOSSIS/GLOFFIS viewer</td>
<td>Albrecht Weerts, Shristi Vaidya, Deltares</td>
</tr>
<tr>
<td>Global Flood Monitoring System (GFMS)</td>
<td>Robert Adler, University of Maryland</td>
</tr>
<tr>
<td>Globally Aware, Locally Precise - U.S. Army Military Hydrology Team</td>
<td>Michael Follum, Mark Wahl, Coastal and Hydraulics Laboratory</td>
</tr>
<tr>
<td>The Global Flood Awareness System</td>
<td>Peter Salamon, JRC, Christel Prudhomme, ECMWF</td>
</tr>
<tr>
<td>Flood mapping from Earth Observations</td>
<td>John Galantowicz, AER, Colin Doyle, Cloud to Street, Bill Sjoberg, NOAA JPSS Program</td>
</tr>
<tr>
<td>Open source applications for streamflow forecasting and flood warning</td>
<td>Alan Snow, US Army Engineer Research and Development Center, Jim Nelson, Brigham Young University</td>
</tr>
<tr>
<td>Prototypes for Information and Decision Support Systems</td>
<td>Marian Muste, Iowa Flood Center</td>
</tr>
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<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>A first-response streamflow forecasting tool to provide</td>
<td>Ahmad Tavakoly, Coastal and Hydraulics Laboratory</td>
</tr>
<tr>
<td>continental hydrologic awareness with local precision</td>
<td></td>
</tr>
<tr>
<td>The value of a model for flood disaster assistance</td>
<td>Guy Schumann, Remote Sensing Solutions</td>
</tr>
<tr>
<td>NASA Disaster Response for Flood Events</td>
<td>John Murray, NASA</td>
</tr>
<tr>
<td>Flood Communication Innovations</td>
<td>James Halgren, RTI International</td>
</tr>
<tr>
<td>Providing timely hydrologic information in data sparse areas</td>
<td>Mark Wahl, U.S. Engineer Research and Development Center</td>
</tr>
<tr>
<td>Enabling early action by focusing on partnerships among</td>
<td>Shristi Vaidya, Deltares</td>
</tr>
<tr>
<td>Critical Infrastructure Networks</td>
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<tr>
<td>Urban flood modelling and suggestions for flood resilience</td>
<td>Asheesh Sharma, CSIR-National Environmental Engineering Research Institute</td>
</tr>
<tr>
<td>The U.S. Flood Inundation Map Repository (USFIMR): Methodology and</td>
<td>Dinuke Munasinghe, University of Alabama</td>
</tr>
<tr>
<td>Future Development</td>
<td></td>
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<tr>
<td>An Operational Global System for Forecasting Point-Rainfall and Flash</td>
<td>Fatima Pillosu, ECMWF</td>
</tr>
<tr>
<td>Flood Risk</td>
<td></td>
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<tr>
<td>A High Resolution Analysis of Heavy Rain Events in Anchorage, AK</td>
<td>Emily Niebuhr, NOAA NWS</td>
</tr>
<tr>
<td>The effect of river bathymetry on riverine flood simulations</td>
<td>Mariam Khanam, University of Alabama</td>
</tr>
<tr>
<td>GloFAS as a flood alert system in Acre civil defense</td>
<td>Marcio Moraes, CEMADEN</td>
</tr>
<tr>
<td>Addressing the false dichotomy of the 100-year flood zone map with</td>
<td>Rachel Lombardi, University of Alabama</td>
</tr>
<tr>
<td>a gradient-based flood map using paleohydrologic principles.</td>
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<tr>
<td>Linking severity thresholds predicted by GloFAS to flood stages at</td>
<td>Conrado Rudorff, CEMADEN</td>
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<tr>
<td>the local scale</td>
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<tr>
<td>FloodList.com: A realtime database of global flood events from media</td>
<td>Calum Baugh, ECMWF</td>
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<tr>
<td>reports</td>
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<tr>
<td>Towards impact-based flood forecasting and warning in Bangladesh:</td>
<td>Albrecht Weerts, Deltares</td>
</tr>
<tr>
<td>a case study at the local level in Sirajganj district</td>
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<tr>
<td>Global to local hazard and impact forecasting</td>
<td>Albrecht Weerts, Deltares</td>
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<tr>
<td>Continental scale data assimilation of discharge and its effect on</td>
<td>Albrecht Weerts, Deltares</td>
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<td>flow predictions</td>
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<tr>
<td>The limits of Funes</td>
<td>Herman Dolder, Aquaveo LLC</td>
</tr>
<tr>
<td>Title</td>
<td>Presenter</td>
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<tr>
<td>Integrated modeling for high resolution flood inundation mapping</td>
<td>Venkatesh Merwade</td>
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<tr>
<td>Spatio-temporal patterns of flooding in rivers of the Eastern United States over the last 10,000 yrs</td>
<td>Lisa Davis</td>
</tr>
<tr>
<td>Tree-Ring Records of Lower Mississippi River flooding</td>
<td>Matthew Therrell</td>
</tr>
<tr>
<td>Producing High-Resolution Flood Extent Maps from Civil Air Patrol Imagery after Hurricane Mathew 2016</td>
<td>Zhe Jiang</td>
</tr>
<tr>
<td>Hydrological evaluation of multi-source Quantitative Precipitation Estimation (QPE) products and their impacts on physically based flood modeling</td>
<td>Huan Wu</td>
</tr>
<tr>
<td>Development and Applications of a New Global Scale River Slope Layer</td>
<td>Md Tazmul Islam</td>
</tr>
<tr>
<td>A physically-based global flood zone map</td>
<td>Yasir Kaheil</td>
</tr>
<tr>
<td>Benchmarking an operational procedure for rapid flood risk assessment in Europe</td>
<td>Peter Salamon</td>
</tr>
<tr>
<td>Linking Flood Forecasting and Satellite Rapid Mapping</td>
<td>Peter Salamon</td>
</tr>
<tr>
<td>A framework for global flood hazard mapping</td>
<td>Lorenzo Alfieri</td>
</tr>
<tr>
<td>A Multi-Scale Ensemble-based Framework for Forecasting Compound Coastal-Riverine Flooding</td>
<td>Firas Saleh</td>
</tr>
<tr>
<td>High-Resolution Maps for Index-Based Flood Insurance: the ARC River Flood Model (AFM-R)</td>
<td>Elke Verbeeten</td>
</tr>
</tbody>
</table>
Logistics

Venue
The meeting venue is the North Lawn Hall (NLH) on the University of Alabama campus:
221 Hackberry Ln, Tuscaloosa, AL 35401
https://goo.gl/maps/mceJVMDRe422
See building floor plan below

Wi-Fi
Network: UA-WPA2
Account: as-guest
Password: xacus0t1

Parking
Parking permits behind NLH are available upon request from Sagy Cohen - sagy.cohen@ua.edu. See map below.

University Visitor Parking is available at the Campus Drive Parking Deck ($5 per day; 5 min walk from NLH: https://goo.gl/maps/kbJBy8q2DGk
http://bamaparking.ua.edu/visitor-information/

Emergency:
● Call 911 from any phone
● University of Alabama Police Department: (205) 348-5454
● Tornado warning - evacuate to nearest storm shelter (rooms 1010 in North Lawn Hall)

Transportation:
● Transportation to the meeting venue
  ● A free shuttle service will be provided from our partner hotels (Home2, Indigo, Embassy Suites) to the conference venue in the mornings and back at the end of each day.
  ● Taxi services (Tel: (205)-210-8616) and Uber (download app) are available for off-schedule travel.
  ● In case you have booked your stay in one of these three hotels without using the GFP promotional code (i.e., through the link on the GFP website) and would like to use the free shuttle bus to the conference venue please indicate that in the online confirmation form.

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● If you have not yet booked your accommodation or booked at a different hotel you can still enjoy the GFP group rate at Hotel Indigo (see conference website). Also if a large group of participants are staying at a different hotel we may be able to arrange a shuttle stop at that location so please also let us know (using the online confirmation form) if you plan to stay elsewhere.

● Tuscaloosa from/to the Birmingham Airport (suggested services):
  ○ Scuttle Shuttle: ($45 one-way) (205) 471-7433, https://www.scuttleshuttle.com (recommended means of transport)
  ○ Uber ($85-$100)
  ○ Crown Limo and Sedan Services: (205) 758-3875 (advance reservation required)
  ○ Ambassador Limo Service: (205) 556-5466 (advance reservation required)
  ○ Prestige Limo Service: (205) 333-9879 (advance reservation required)
  ○ Car Rentals at Birmingham Airport: http://www.flybirmingham.com/flying-in/ground-transportation/rental-cars/
  ○ Taxi Service from Birmingham Airport to Tuscaloosa:
    ■ Birmingham Door to Door: (205) 591-5550
    ■ Executive Shuttle Network: (205) 702-4566
    ■ Ambassador Limo Service: (205) 556-5466

Please check the conference webpage http://gfp.jrc.ec.europa.eu/Conferences/2017-GFP-Conference for more logistic information on accommodation and transports to and from the nearby airports.
**North Lawn Hall**
- Main conference room: 2008
- Breakout rooms: 2007 & 2009
- **Storm shelter**: 1010 & 1011
- Collaboration rooms (4-seat meeting rooms with whiteboard and monitor): 1009 & 1016 (may need to ask organizers to unlock)

*Hosted by: NOAA Office of Water Prediction in collaboration with UCAR/COMET and the University of Alabama*
Access to the parking lot behind North Lawn Hall

Hosted by: NOAA Office of Water Prediction in collaboration with UCAR/COMET and the University of Alabama
Sponsors

UCAR Community Programs

COMET

NOAA National Oceanic and Atmospheric Administration

NWC National Water Center

The University of Alabama

College of Arts & Sciences

College of Engineering

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