

# 3<sup>rd</sup> Workshop of Global Flood Working Group

“Bridging the gap between science and operations”

Co-organized by

- Joint Research Centre of the European Commission
- University of Maryland Earth System Science Interdisciplinary Center
- Dartmouth Flood Observatory

4-6 March 2013  
College Park, MD, USA

# Bridging gap between science and operations – a multidisciplinary challenge



# Who is the Global Flood Working Group?

<http://portal.gdacs.org/globalfloods.aspx>

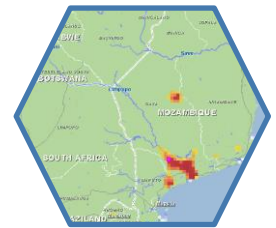
- CEMADEN Brazil
- CRGL, Luxemburg
- Dartmouth Flood Observatory
- Deltares, Netherlands
- Earth System Science Interdisciplinary Center (ESSIC) at the University of Maryland
- European Centre for Medium-Range Weather Forecasts (ECMWF)
- **European Commission (ECHO)**
- **FM Global**
- Group of Earth Observation (GEO)
- Georgia Institute of Technology
- HKV Consultants, Netherlands
- ICF International
- Ithaca, Italy
- Institute of Remote Sensing and Digital Earth, Chinese Academy Of Sciences, China
- International Center for Water Hazard and Risk Management (ICHAHM)
- **International Federation of the Red Cross and Red Crescent (IFRC)**
- Joint Research Institute Of The European Commission
- NASA
- NOAA
- Pacific Disaster Center
- Pacific Northwest National Lab
- **Swiss Re**
- U.S. Army Engineer Research and Development Center, Coastal and Hydraulics Laboratory
- UNOSAT
- **United Nations Office for the Coordination of Humanitarian Affairs (OCHA)**
- University Corporation for Atmospheric Research
- University of Connecticut
- University of Kansas
- University of Oklahoma
- University of Washington
- **USAID/OFDA**
- **Willis**
- **World Bank**
- **World Food Program**

(not exhaustive)

# Agenda

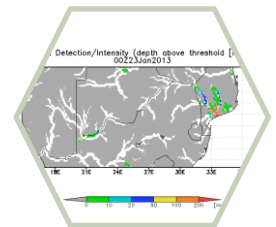
- **Global flood observation**

- Status of real-time and global remote sensing systems
- Optical and microwave
- Very high spatial resolution (1m) to very high temporal resolution (1d)



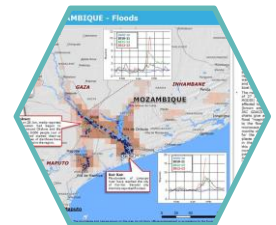
- **Global flood modeling and forecasting**

- Status of real-time and global modeling systems
- Overview of precipitation observation and forecast products
- Presentation of latest global/regional model improvements



- **Bridging gap between science and operations**

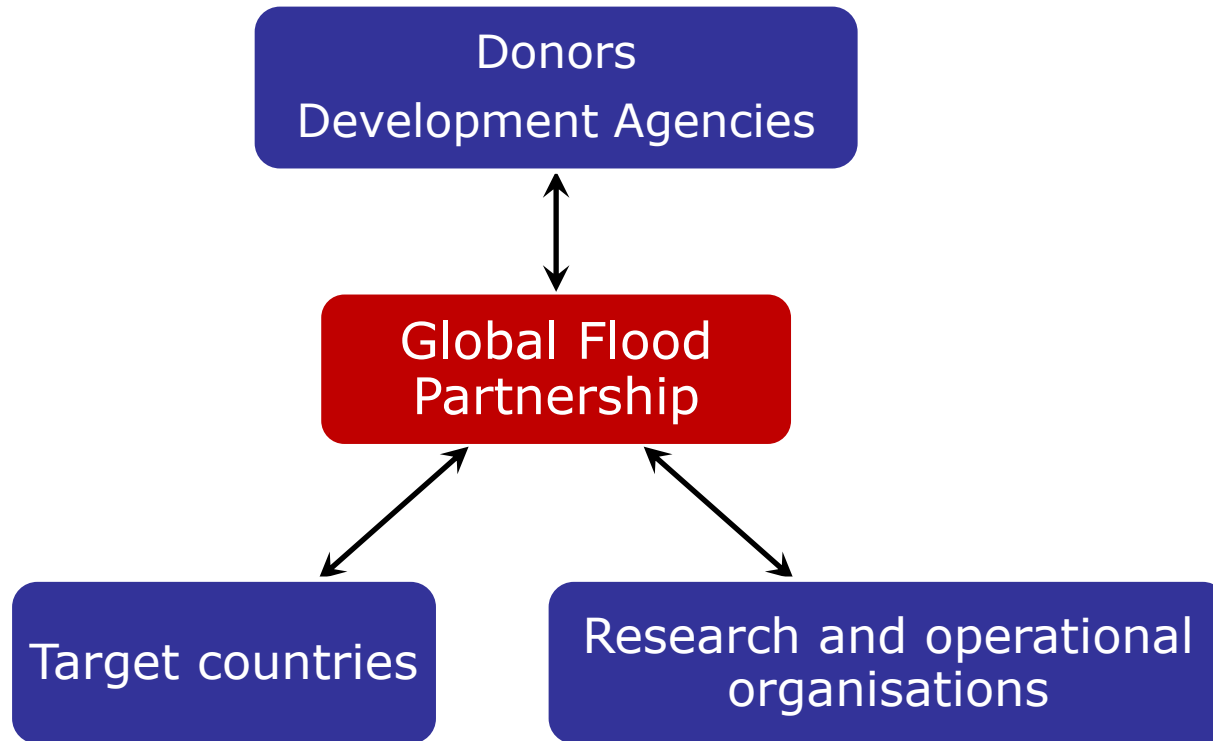
- Review of how development/relief organisations use flood data
- Discussion on data, products and services tailored for users
- Case study of Mozambique floods 2013



# Outcomes of the 3<sup>rd</sup> Workshop



# Proposal for Global Flood Partnership



# Vision for a Global Flood Partnership

Provide operational  
globally applicable  
flood monitoring tools  
and services,

complementary to national capabilities,

for better managing current and future flood risk

and reducing flood disaster impacts

# Recommendations

- **Continue to work together, coordinate R&D, and meet**
  - **Reach out:** Publish results of workshop with recommendations on way forward and identified gaps in data and funding
  - **Build Pilot Success Stories:** publish joint validation studies, involving selected flood-prone countries, focused on value of systems for emergency management
  - **Create one voice:** create a single portal for access of information (research publications, live systems, data, links) and tools for collaboration
  - **Demonstrate added value** by integrating existing systems useful for particular needs
- **Work out proposal for Global Flood Partnership**
  - Explore feasibility, support and structure of a Global Flood Partnership