Geophysical Research Abstracts Vol. 17, EGU2015-15426-2, 2015 EGU General Assembly 2015 © Author(s) 2015. CC Attribution 3.0 License.



Scientific developments within the Global Flood Partnership

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More than 90 scientists, end users, and decision makers in the field of flood forecasting, remote sensing, hazard and risk assessment and emergency management collaborate in the Global Flood Partnership (GFP). The Partnership, launched in 2014, aims at the development of flood observational and modelling infrastructure, leveraging on existing initiatives for better predicting and managing flood disaster impacts and flood risk globally. Scientists collaborate in the GFP in different pillars, respectively focused on (1) development of tools and systems for global flood monitoring (Flood Toolbox), (2) applying the tools for publishing near real-time impact-based flood awareness information (Flood Observatory), and (3) collecting flood maps and impact information in a distributed database (Flood Record).

The talk will focus on concrete collaboration results in 2014 and 2015, showing the added value of collaborating under a partnership. These include an overview of 10 services, 5 tools (algorithms or software) and 4 datasets related to global flood forecasting and observation. Through the various results (on interoperability, standards, visualization, integration and system design of integrated systems), it will be shown that a user-centric approach can lead to effective uptake of research results, rapid prototype development and experimental services that fill a gap in global flood response.