

SHED Science in Humanitarian Emergencies and Disasters

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Goals: To improve the use of science advice across UK government in predicting, planning for and responding to international, natural hazard based humanitarian disasters

Objectives

1. To establish a Risk and Horizon Scanning Expert Group (RHEG) to provide forecasts of emerging natural hazard risks

2. To develop a mechanism to provide scientific advice to UK government departments in the event of an international humanitarian emergency

Customers







Major achievements



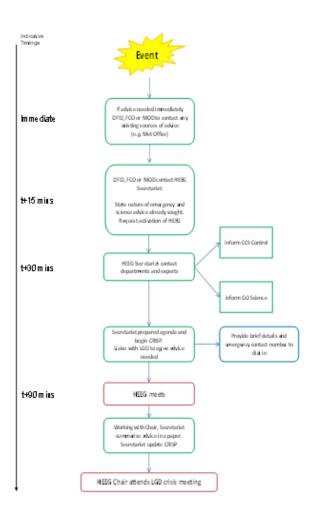
Relatively new process but rapid implementation

- Risk and Horizon Scanning Expert Group (RHEG), chaired by the UK Government Chief Scientific Adviser established
- Initial system of horizon scanning, drawing on existing cross-government information, to identify emerging international natural hazard risks developed
- Scientific advice on international natural hazard risk now incorporated into government risk assessments





Major achievements

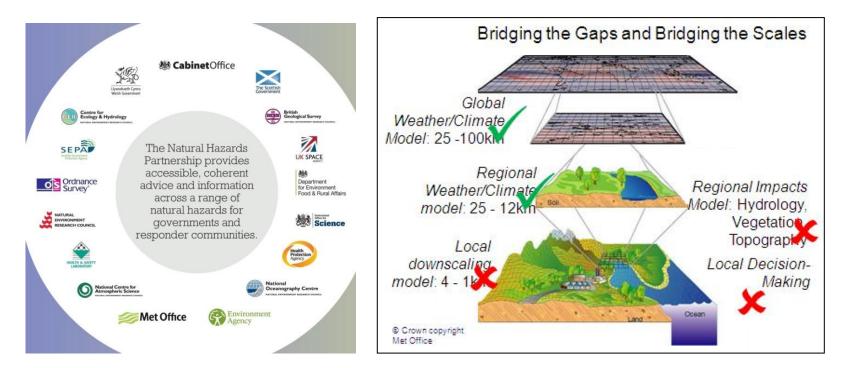


- Procedures for a Humanitarian Emergency Expert Group (HEEG) developed
- HEEG aims to ensure that coordinated, timely S&T advice is made available to decision makers to support UK response
- Mechanism resulted in rapid advice being provided following an earthquake in Iran's Bushehr province
- Transparency outputs from RHEG and HEEG published online.



Future goals and contribution to post-HFA 2015

- Continue to develop our ability to identify, assess and monitor disaster risk and enhance early warning
- Multi-disciplinary and multi-hazard approach learning from the UK's Natural Hazard Partnership
- How to access other regional/local information and models?



Future goals and contribution to post-HFA 2015

Hazard	Details/Summary
Flood & Tropical storms	The latest seasonal forecast for the next 6 months indicates a return to weak La Niña conditions. That being the case, higher than normal rainfail is likely to continue across the tropical West Pacific and across North-East Brazi (Nordeste), with driver than normal conditions across the southern US. The recent flooding in southern Africa is consistent with continuing La Niña conditions.
	Philippines Heavy rain has continued to cause flooding in the Philippines following Typhoon Bopha in December 2012. The UK Met Office seasonal forecast indicates that there is a continuing risk of heavy rain in the Philippines. There is therefore an increased risk of further flooding and landslips.
	Indonesia Latest information indicates that the summer monsoon will happen earlier than usual. As with the Philippines, the UK Met Office seasonal forecast indicates that there is a continuing risk of heavy rain in Indonesia. There is therefore an increased risk of further flooding.
	The area has already been subject to heavy rain during January and over 20,000 people were forced to abandon their homes after Jakarta was flooded following days of heavy rain in mid-January 2013.

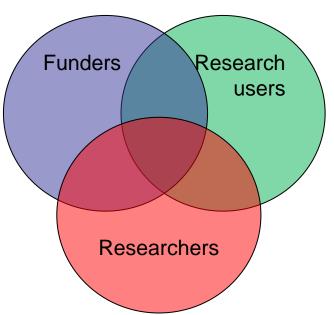
Summary of key emerging rapid onset

natural hazard risks January 2013 – April 2013

This section outlines the key emerging <u>rapid onset</u> natural hazard risks that have been identified by the RHEG. It should be noted however that the prediction of geo-physical risks is

RHEG 2013: Issue 1

- Improvements in the way information on hazard and risk is communicated to decision makers and others
- Establish a more effective engagement between researchers, research users and research funders within the UK and internationally

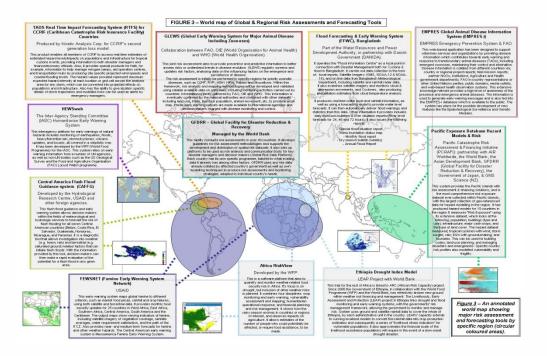




Synergies / Collaboration

- Better intelligence of future risks of extreme events / verification of these hazards through the sharing of information with other networks and local science partners
- Access to global, regional and local expertise
- Shared information on research gaps and priorities
- Requirement for a coherent understanding of a complex landscape

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