Resilience and action on short-term environmental shocks and long-term environmental change

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strengthen the utilization of media, including social media, traditional media, big data and mobile phone networks, to support successful disaster risk communication.

‘a broader and a more people-centred preventive approach to disaster risk.’
Istanbul

Communicating Seismic Risk
Research for Emergency Aftershock Response (GCRF-REAR)

Lead Research Organisation: University of Edinburgh
Department Name: Sch of Geosciences

Abstract

Earthquakes have resulted in over three-quarters of a million deaths already in this century, and economic losses of more than a quarter of a trillion US dollars since 1980 making them by far the most destructive of the natural hazards.

Science cannot predict earthquakes and current research indicates that progress in identifying where near future earthquakes will (so-called earthquake hotspots) is likely to be slow. However, the work of emergency services and humanitarian organisations depends critically on an immediate and active understanding of earthquakes to help save lives and prevent economic losses. A better understanding of seismic processes, space and time, are well understood scientifically and which can be forecast in a probabilistic way. Work by this team, both academics and humanitarian partners, during the Nepal earthquake sequence of 2015 has shown that this understanding has operational impact and can help plan emergency response. In this project we will scope out the requirements for operationalising the technical, scientific, logistical and reporting and interpretation requirements so that fully operational aftershock forecasts, coordinated and led by a team from the University of Edinburgh, can become a part of the international response every major earthquake globally.
UK Aid Strategy 2015

Strengthening global peace
Resilience and response to crises
Global prosperity
Extreme poverty and helping the world’s most vulnerable

Khao Lak, Thailand, 2005