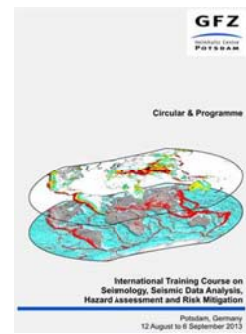


**International Training Course on
Seismology, Seismic Data Analysis,
Hazard Assessment and Risk Mitigation**

Potsdam, Germany,
12 August to 6 September, 2013



Expert Days

During **3 days** the participants will work together in small groups with experts. The participants can choose according to their interest. We would like to encourage general discussions on seismology and seismic hazard. Please bring with you your own data or papers about research ideas or a list of questions.

Seismology

- Earthquake Data Analysis, Routine Data processing
- SC3 Offline Data processing
- Seismic Moment Tensor Determination
- Installation, Integration of Seismological Stations
- importing real-time data, providing data
- Station layout, VSAT data transmission
- Calibration of Broadband Seismic Sensors
- Regional Moment Tensor Analysis
- Teleseismic Wave Analysis with Seismic Handler

Modeling

- Seismic Wave propagation (teleseismic)
- Tsunami Modeling from deterministic Scenarios and Probabilistic Tsunami Hazard Assessment
- Slip Inversion with GPS, INSAR and seismic data
- Sumatra and Tohoku earthquakes

Engineering Seismology

- Microzonation, Instruments and methods, Array techniques, Surface waves data analysis, borehole instrumentation,

Seismic Hazard Assessment

- Historical and intensity data
- Strong Motion Data Analysis
- Ground Motion Prediction Equations
- Statistical Earthquake Catalogue Analysis
- ETAS model, De-Clustering
- Triggered versus tectonic events

Deformation monitoring with InSAR

- Data sources, Data analysis and interpretation
- Dislocation Model in Layered Half Space

Seismic Risk Estimation

- Exposure, Vulnerability, Estimating Losses
- OpenQuake, GEM Global Earthquake Model

Monday, Sept. 2 08.30 – 17.00	Tuesday, Sept. 3 08.30 – 17.00	Wednesday, Sept. 4 08.30 – 17.00
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