

# **Tsunami Exercises**

## **- Introduction**

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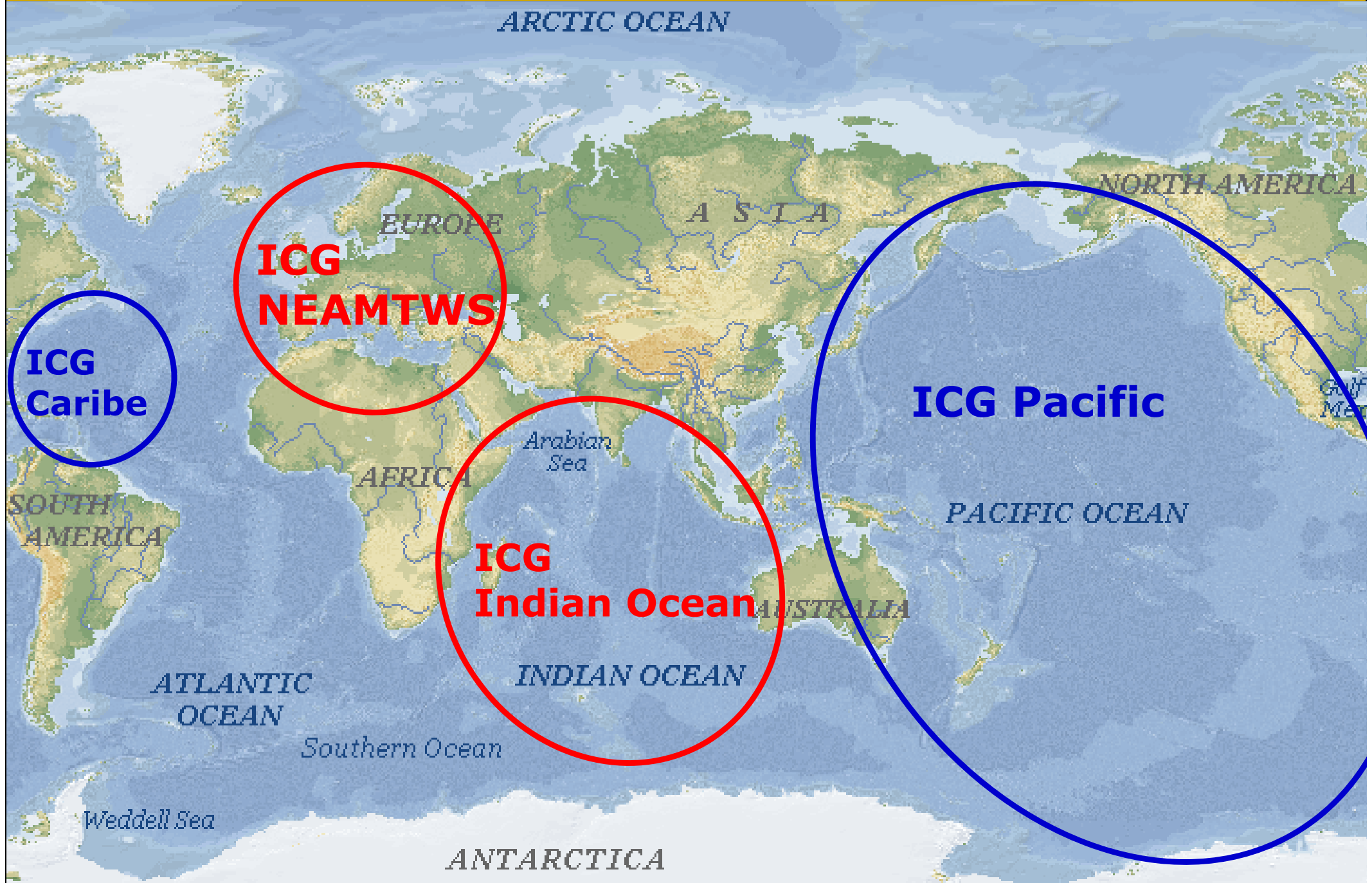
**GFZ German Research Centre for Geosciences**

**Co-Chair Task Team on Communication Test  
and Tsunami Exercises**

**15 June 2011 – Workshop@JRC**



# The International UNESCO Framework Regional Tsunami Watch Providers (RTWP)



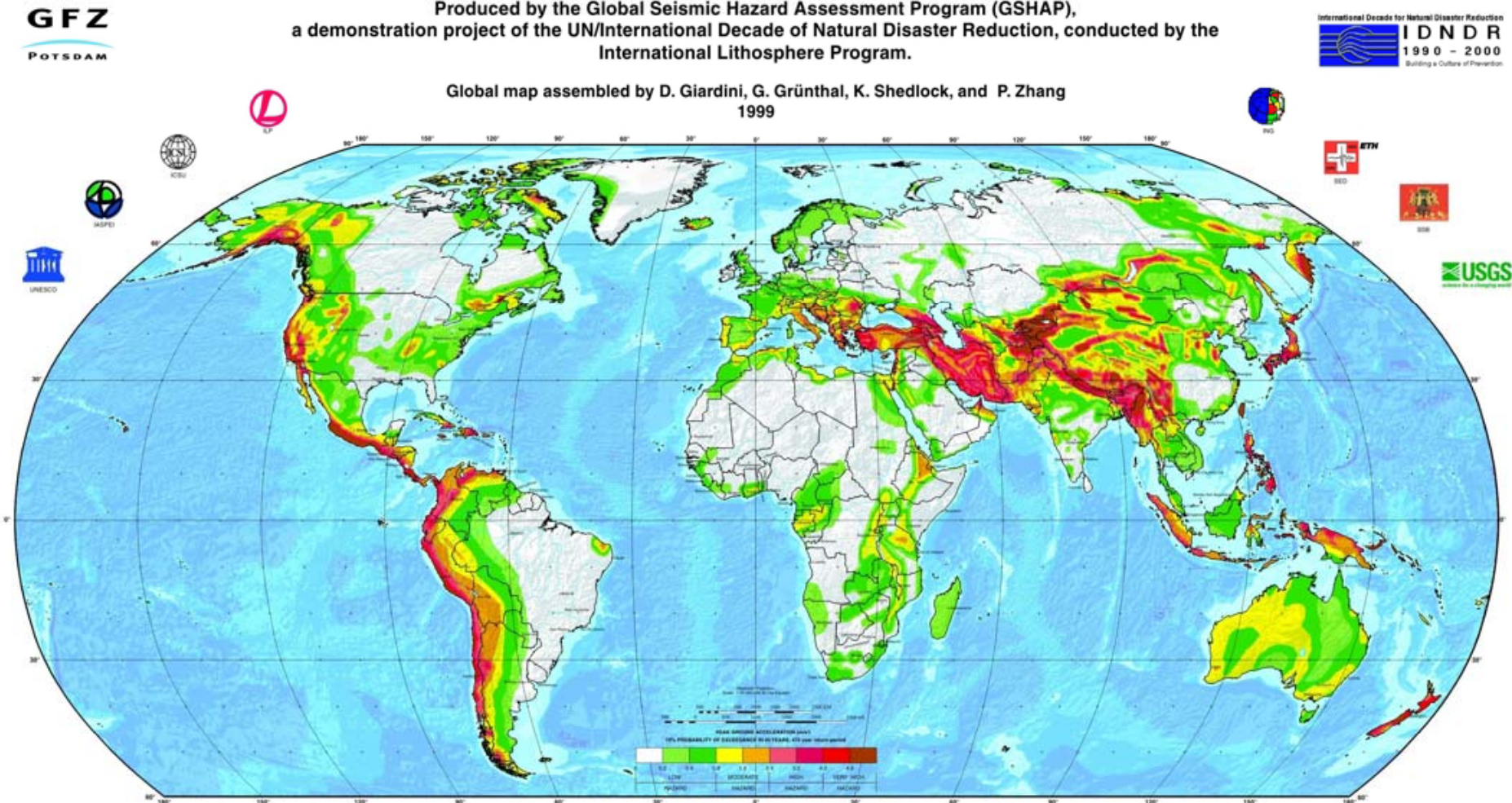
# Potential sources from GSHAP

## GLOBAL SEISMIC HAZARD MAP

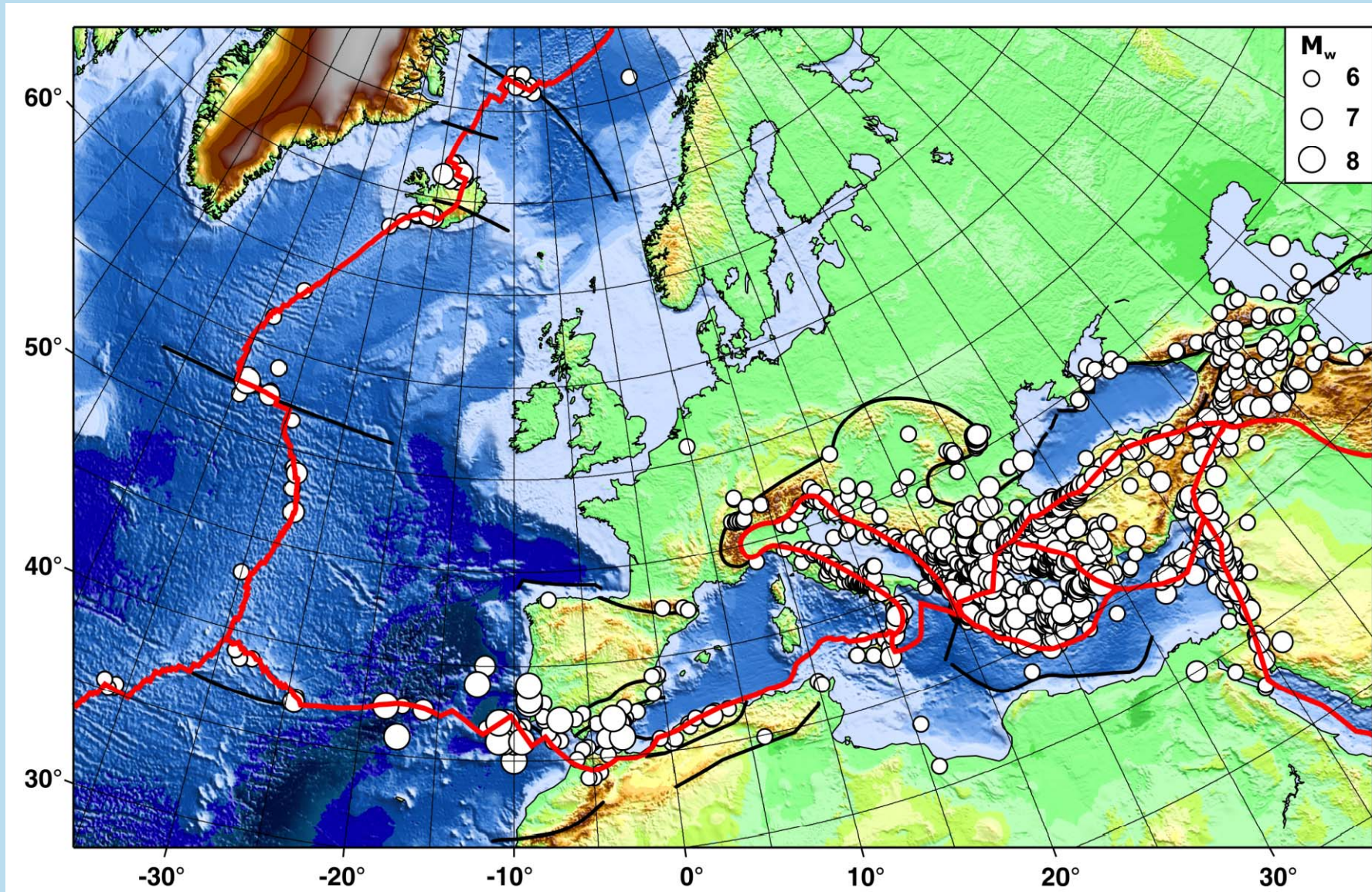
Produced by the Global Seismic Hazard Assessment Program (GSHAP),  
a demonstration project of the UN/International Decade of Natural Disaster Reduction, conducted by the  
International Lithosphere Program.

Global map assembled by D. Giardini, G. Grünthal, K. Shedlock, and P. Zhang  
1999

International Decade for Natural Disaster Reduction  
**IDNDR**  
1990 - 2000  
Building a Culture of Prevention



# Earthquake catalogue of last 100 years



Earthquake  
Epicentres

**M<sub>w</sub> ≥ 6**



# Purpose of exercise

The purpose of the exercise is **to improve local and regional source tsunami warning capability in the region**. The exercise provides an **opportunity for countries to exercise their operational lines of communications, review their tsunami response procedures, and to promote emergency preparedness.**

Every country is encouraged to participate!



# Other ICGs

## PTWC:

**PacWave06 – 16/17 May 2006**

**PacWave08 – 29 October 2008 / 34 countries, + 10**

**PacWave11 – 9/10 November 2011**

## IOTWS:

**IOWave09 – 14 October 2009**

**IOWave11 – 12 October 2011**

## CarTWS:

**CaribeWave11/LANTEX2011 – 23 March 2011**

# PacWave08 - Scheme

## Simplified Tsunami Warning System Schematic

Seismic event



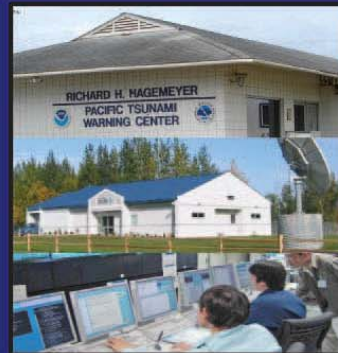
Tsunami



Seismic data



Analysis  
and  
assessment



Advisory issued via  
multiple technologies  
(GTS, EMWIN, FAX,  
SMS, Email, ...)

Sea level data



Analysis  
and  
assessment

Warning received by  
country and acted upon  
according to own  
national arrangements





# Preparation

## NEAMTWS:

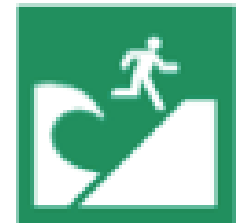
- **Exercise scenarios**
- **Experimental products**
- **Time of event**
- **International Tsunami Warning Centre messages**
- **Exercise manual „How to Plan, Conduct, and Evaluate Tsunami Exercises guidance“**
- **Post exercise performance evaluation**
- **Pre-briefings and training**



# Outlook



**ICG/NEAMTWS**  
**TSUNAMI EXERCISE**



**NEAMWave12**