

# COAST-MAP-IO

## Improving Emergency Response to Ocean-based Extreme Events through Coastal Mapping Capacity Building in the Indian Ocean

*Bangladesh, Comoros, Kenya, Madagascar, Maldives, Mauritius,  
Mozambique, Myanmar, Seychelles, Sri Lanka, Tanzania,  
Thailand*



*Bangkok, November 2010*

# Preparedness to tsunamis and storm surges



Boxing day tsunami

Nargis storm surge

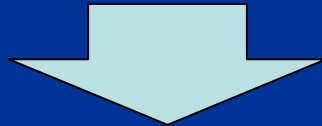


# Project Goal

**Safer coastal zones** from tsunamis, storm surges, and other hazards through **accurate inundation maps**

**Inundation maps** are critical to safe coastal planning and effective evacuation plans ;

**Nearshore bathymetry** strongly influences inundation from tsunamis and storm surges

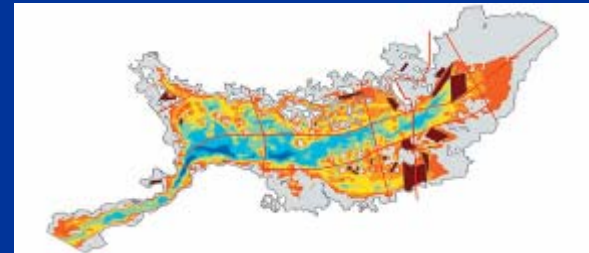


Need to develop **national capacities to collect and use nearshore bathymetry** for inundation map preparation

# Other benefits

- **Routine local users** are necessary for continuous improvement of skills

⇒ Coast-map-io also develops capacity to use hydrographic data for better **coastal management** through modelling



- Other routine users: navigation and marine resource prospection (e.g. hydrocarbon)

## *Main achievements:*

- 15 training courses and workshops

- Number of participants by country:

Bangladesh 12

Comoros 5

Kenya 12

Madagascar 15

Maldives 5

Mauritius 8

Mozambique 12

Myanmar 14

Seychelles 3

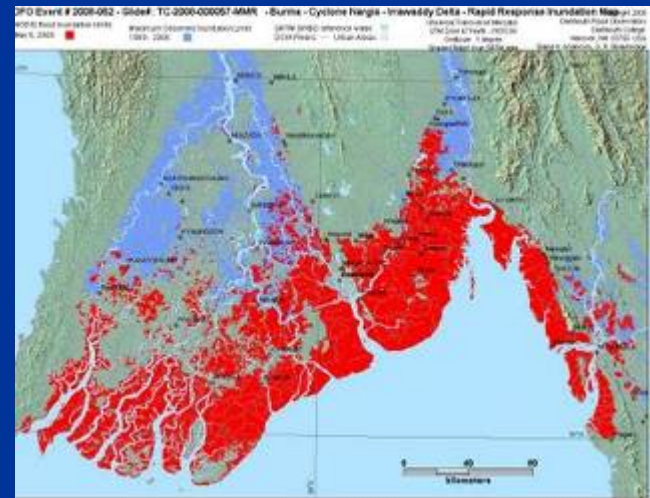
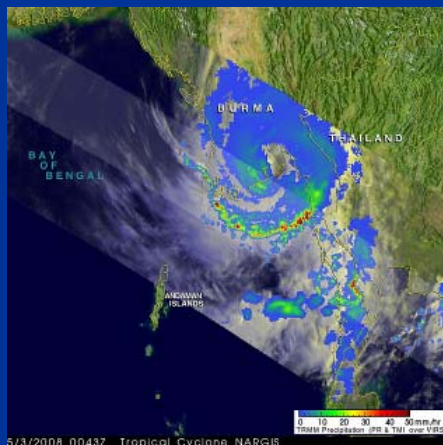
Sri Lanka 13

Tanzania 2

Thailand 18

# Other activities

- 10 Assessment missions conducted
- Provision of modern hardware and software
- COAST MAP IO network established
- National Hydrographic Committees reactivated
- Awareness raised
- First inundation maps prepared for several countries



# Sponsors and *partnership*

Government of Italy: cash

Government of India: training in hydrography and modelling

Indian Navy: bathymetric data management and processing, on job training on board

French Navy: on job training on board of r/v "Beautemps Beaupres"

Kingdom of Norway: sponsored travel

Kingdom of Sweden: training in leadership

Alfred Wegener Institute: hydrography training

ESRI Europe: GIS software

CARIS: hydrography software and training

IHB International Hydrographic Bureau

HDRTN Hydrographic Department Royal Thai NAVY

# Next Steps

- **Remaining needs:**
  - Hi-resolution hydrographic database of selected priority areas
  - Self-sustainable hydrographic services for disaster preparedness, coastal management, navigation and resources prospection
  - Downstream products users delivering to decision-makers and driving hydrographic activities
- **Opportunities:**
  - New actors in project: training, possibly donation of equipment
  - Links with growing needs for capacities for safer, sustainable and climate-proof coastal planning
  - Country proposals received for next steps

**LOOKING FOR PARTNERS AND SPONSORS  
FOR HYDROGRAPHIC TRAINING, EQUIPMENT  
AND SUPPORT**