



Madagascar National Plan on the Strengthening National Capacities for Tsunami Early Warning and Response Systems

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1. National tsunami centre established and operating as the authoritative source for tsunami advice and warnings.

The Antananarivo Geophysical Institute & Observatory (IOGA) & National Meteorological Services are the institutional focal points: receiving external information from JMA and PTWC and works closely if necessary, disseminate information to the National Emergency Council (CNS)

CNS : principal institution on Early Warning Dissemination to all decentralized authorities at regional, districts, municipal and village, and national network.

Activities carried out and ongoing:

IOGA:

- starts its operation on 24h/7days basis
- one functional seismic station in the Central region of Madagascar (completed – with CTBT).
- installed one new seismic station in the Central region of Madagascar (completed with IRIS/IDA).
- installing one new seismic station in the Southern part of Madagascar (ongoing with IPGP – French).

National Meteorological Service operates 24/7
received data from JMA & PTWC.

Assistance required to support the development of capacity:

Production of tsunami vulnerability map and 10-day Training on seismology and TREMORS for 5 persons from local universities.

2. Strengthening of operational 24/7 national warnings capacities of the National Meteorological Services as part of multi-hazard approach to national warning systems.

- There is a need to reinforce the capacity of the Meteorology Office by:
 1. Installing sea-level station data by GTS for the regional meteorology stations.
 2. Training for its national staff.

3. Warning response plan for coastal regions prepared and disseminated and a national (coastal) response and evacuation exercise undertaken.

- Training on tsunami and drill was done from 11 to 14 April 2006 in the east coast of Madagascar (for 3 regions) with the assistance of ISDR Africa.

Activities to be carried out:

- To be able to cover all coasts vulnerable to tsunami - train local authorities;
- Evacuation drills for other 5 regions in the East Coast of Madagascar in 2006.

The objectives of the training are:

- Elaboration of the national contingency plan on tsunami and other risks in Madagascar ;
- Development of Early warning Systems ;
- Public awareness, training and publication of evacuation manual for local authorities ;
- Mock exercises on tsunami and evacuation plan.

4. Awareness-raising and education campaign undertaken on tsunami risks and the warning system in coastal regions.

Activities carried out:

1. Mainstreaming tsunami risk and other related hazards into school curricula
 - a. Training for teachers
 - b. Drawing competition
 - c. Elaboration of student book (age 11-13 years) and teacher's guide
2. Six trainings for local authorities on tsunami risks and other related hazards 6 regions for tsunami
3. Five trainings for 5 other regions on multi-hazards.
4. Public awareness through Media (TV, Radio and written press).

The activities to be carried out:

Community awareness through formal and informal education in Madagascar and particularly in the coasts.

1. Informal education: local leaders at village, communal and regional levels will be trained and enhance the capacity of understanding of disaster risk management among Church leaders and traditional chiefs.
1. Formal Education: Printing and dissemination of publication to all schools especially along the coast of the country and to be integrated into school curricula by September 2006.
2. Training for media (newspapers, TVs and radios) on disaster risk reduction at national level.

5. Assessment of Environmental Flashpoints at sub-national level for use in preparedness and spatial planning and disaster risk reduction.

Activities to be carried out:

There is a need for elaborating bathymetry and GIS Map by the National Institute of Cartography & Hydrography (FTM) with the assistance of IOGA.

6. Organizations responsible for disaster risk reduction and disaster management established to lead, monitor and coordinate the plan.

Activities carried out:

Trainings on Early warning Systems and disaster management were carried out in 14 regions out of 22.

Activities to be carried out:

- Develop an operation manual on Early warning Systems and disaster response for local authorities and community leaders.
- Capacity building for CNS (under UNDP/BCPR assistance)

7. Intermediate and long-term plan developed for the complete and sustainable tsunami warning and response system with full costing.

Intermediate and long-term plan :

■ *Activities to be carried out by CNS:*

- Provision of communication equipment : BLU, speakers and sirens

■ *Activities to be carried out by IOGA & METEO :*

- Installation of 3 seismic stations
- Installation of one tide gauge