



Region	Disaster Zones	Major Hazards
North	Northern Upland	Flash floods, landslides, earthquakes
	Red River Delta	Monsoon river floods, typhoon, storm surge
<u>Central</u>	Central Provinces	Typhoon storm, Flash floods, drought
	Central Highlands	Flash floods, landslides
South	Mekong Delta	River flooding from upstream, typhoon, storm along the coast















### FOR THE RED RIVER DELTA AND THE NORTHERN CENTRAL VIET NAM







#### RADICAL FLOOD PREVENTION

- 1. Afforestation and protection of upstream forests.
- 2. Construction of reservoirs for flood mitigation in upstream areas.
- 3. Construction areasfor flood divergence and retardation.
- 4. Flood resistant dyke systems.
- 5. River channel dredging for increasing flood drainability.
- 6. Dyke supporting systems against flood.

#### Non-structure measures:

 $1. \ \mbox{Strengthening of disaster early warning and forecasting capacities.}$ 

- 2. Strengthening of the dyke systems and community awareness on disaster mitigation and management.
- 3. Appropriate land use and residential planning to avoid disasters







## 2. ACTION PLAN

- National action plan has been developing;
- To be completed by end 2008;
- The priority actions identified;

# PRIORITY ACTIONS

- Capacity building at community;
- Capacity building to the key officials of DRR at all levels;
- Up-grate and strengthern the disaster protection structures;
- Up-grate and amend institution on DRR at all levels;
- Identify and mornitor the disaster risks;
- Early warning and dissemination system.







### APPROPRIATE POLICY AND CLOSE DIRECTION OF THE GOVERNMENT, GOOD COORDINATION OF RELEVANT AGENCIES AND SECTORS AND ACTIVE PARTICIPATION AND SUPPORT OF THE PEOPLE STORM No. 7 (DAMRAY Storm) Sept. 2005





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Damrey storm attached in Vietnam with the 12 storm level, to combine with high tide and storm surge and long time (12 hour)  $\,$ 

Local authorities evacuated 338.144 people, called 39.735 boats back to shelters. This was the largest evacuation in a short time in history. The dyke protection work mobilized 135.000 people including the army, militias, youths, over 3.500 vehicles, 17.800 lifebuoys. The work also mobilized a large amount of materials including 663.000m<sup>2</sup> of wave-proof fabric, 2.210.000 bags, nearly 116.000m<sup>2</sup> of rock, over

25.000 iron cages, over 25.000m<sup>2</sup> of geotextile, nealy  $300.000m^2$  of soil, and lots of other materials.





- Timely directions from the Prime Minister, the Government, the CCFSC as well as the active, urgent operation of and close coordination between ministries, related agencies.
- The active preparedness was supported by timely and exact forecasts and warnings
- Mobilizations of the army, and vehicles (boats, helicopters) to call fishing boats
- Local authorities evacuated 338.144 people, called 39.735 boats back to shelters
- Local people had more experience and more aware of disaster preparedness measures























