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Asia Flood Network

A Flood Mitigation and Preparedness Program in Asia

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Office of U.S. Foreign Disaster Assistance





US Agency for International Development (USAID)

- support long-term and equitable economic growth implementing:
 - economic growth, agricultural and trade;
 - global health; and,
 - democracy, conflict prevention and humanitarian assistance
- provide assistance in four regions of the world:
 - Sub-Saharan Africa,
 - Asia and the Near East,
 - Latin America and the Caribbean, and
 - Europe and Eurasia



Office of U.S. Foreign Disaster

Assistance OFDA

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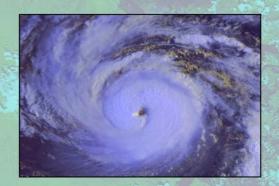
Mandate

Save lives, alleviate human suffering

and reduce the economic impact of

disasters







What OFDA does?

- Coordinate and facilitate U.S. Government disaster assistance overseas
- Responds to natural disasters
- Provides assistance when lives threatened by human-caused catastrophes
- Supports mitigation activities to reduce the impact of recurrent natural disasters





Disasters Hazards, Vulnerability and Impacts

Hydrometeorological Hazards

Social Vulnerability Plood CAMBODIA
Drought
Cyclone/Storm
Wild Fires
Extreme temperatures
Avalanches

Economic Vulnerability

Geological hazards

Earthquake/Volcano
Landslides

Physical Vulnerability Live

Health

Livelihood

Tsunami

Food Security/ Agriculture

Water/Sanitation

Infestation

Habitat

Environmental degradation

Human caused hazards

Biological Hazards

Epidemics

Pandemics



OFDA Hydrometeorological mitigation activities

- Flood Mitigation
 - Asia Flood Network
 - Greater Horn of Africa Flood Mitigation
 - Flood Early Warning System, Vietnam
 - Coastal Storm Early Warning System, Vietnam
 - Transboundary River Forums in South Asia
 - Mekong River Commission Flood Referencing
- Climate Variability and Drought Mitigation
 - WMO and Drought Monitoring Centers in Nairobi and Harare
 - RANET:Dissemination of climate/weather information to vulnerable people
 - Extreme Climate Events Program (Philippines and Indonesia)
 - Climate Forecasting Application, Bangladesh
- RANET: Dissemination of climate/weather and other related information to people in remote areas



End-to-End Flood Mitigation and Preparedness

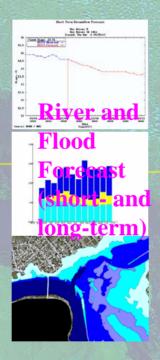






Lead time

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Coordinate Local level





Asia Flood Network

- Reduce the vulnerability of population to flood hazard in Asia
 - Identify and fill the gaps in flood/river forecasting and early warning
 - Strengthen regional and national institutions hydrometeorological forecasting and early warning
- Jointly implemented by OFDA, NOAA, USGS and others
- Initial activities in the Mekong River Basin
- Potential implementation in Ganges-Brahmaputra-Meghna River Basin and others in the region

RANET

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- International cooperation to make
 - climate/weather information accessible to rural population
 - Health, education, agricultural, HIV/AIDs, and other information
- 16 African countries and Asia/Pacific
- Partners World Space Corp. and First Voice
 International Commercial
- Substantial support on project-by-project basis from European met services, NGOs, and IOs



Consultative Meetings (2004)

- Flood Forecasting Technology
 - Evaluation of the accuracy of MRC forecasts
 - Consensus forecast along Mekong
- Training and capacity building
 - Use of satellite precipitation estimation/forecasts in flood/river forecasting
 - Flash flood guidance and warnings
 - Tributary forecast
- Technical assistance
 - Evaluation implementation of US technology in Mekong
 - Framework for modernization of flood forecasting and warning
 - Hydromet data collection, monitoring, analysis and management
- Dissemination of data, information and warnings
 - Disseminate warnings/information to population in remote areas
- Drought monitoring



AFN Activities in 2005

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• MRC

- Satellite Rainfall Estimation (April)
- Flash-Flood Warnings (May)
- RANET (May)
- ICIMOD
 - Satellite Precipitation Estimation (July)
 - Flash-Flood Warnings



