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COUNTRY REPORT

ВΥ

MAZNI BINTI AZIS

MALAYSIAN METEOROLOGICAL DEPARTMENT (MMD)

MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC)

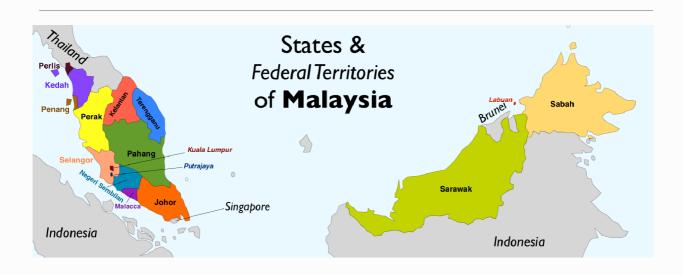




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GENERAL INFORMATION



GENERAL INFORMATION



GENERAL INFORMATION

CLIMATE OF MALAYSIA

- ☐ Uniform temperature (max. 33°C, min. 23°C)
- \Box High humidity (70 90 %)
- Average annual rainfall is 2,400 mm for Peninsular Malaysia, 3,800 mm for Sarawak and 2,600 mm for Sabah
- ☐ Winds are generally light
- ☐ 2 monsoon's season (2 Inter-monsoon period in between)
 - Northeast Monsoon (Nov Mar)
 - Southwest Monsoon (May Sept)
 - 2 Inter-Monsoon (April & Oct)

NATURAL HAZARDS IN MALAYSIA

Weather related Hazards:

□Floods / Flash Floods

□Strong Wind and Rough Sea

□Thunderstorms / Lightings

☐Tropical Storms / Typhoons

□Landslides

□Forest Fires / Haze

□Droughts

Geophysical Hazards

□Earthquakes

□Local / Regional Tsunamis

□Landslides



MAJOR DISASTERS FOR THE PAST FEW YEARS

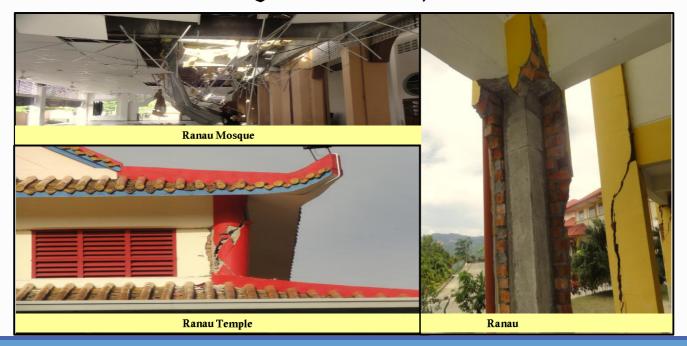
Year	Disaster	Killed	Injured	Total affected	Damage (USD)
2015	Earthquake	18	22		20m
2014	Flood	25		541896	
2009	Flood			8470	
2008	Flood				
2008	Landslide	11	15	1422	
2007	Flood	33		158000	
2006	Flood	19		138000	343m
2005	Flood	17		100000	
2005	Mud flood	3		2793	
2004	Tsunami	68			

FLOODS 2014



Photo: Google

RANAU EARTHQUAKE 7:15am, 5 Jun 2015



DISASTER MANAGEMENT IN MALAYSIA

- ☐ Establishment of NADMA
- ☐ Roles & Responsibilities
- ☐ Directive No.

- ☐ Preparedness Step
- ☐ Disaster Prevention and
- ☐ Recovery Program After Disaster

Establishment of NADMA Malaysia

The Na D M A (NADMA) under the Prime Minister's Department taking over the responsibility from the National Security Council

1 OCTOBER 2015

"yellow water flood"

* Cabinet Meeting 26th August 2015

Roles & Responsibilities

Malaysia's National Focal Point for Disaster Management
Formulation National Disaster Management Policy
Regulate the Implementation of policies
Coordinate Disaster Risk Reduction Initiative
Coordinate Disaster Relief Exercise
Implement Public Awareness Programme
After Action Review (AAR)
Managing Disaster Relief Trust Funds
Secretariat of National Disaster Management Committee
Head of Humanitarian Assistance Disaster Relief delegation
Deployment of SMART team

Directive No. 20 (NSC No. 20): The Policy and

- Main guideline for DM in Malaysia.
- Mechanism on the management of disasters including the responsibilities and functions of related agencies under an integrated emergency management system.
- Supported by other S.O.P which outline the mechanism as well as roles & responsibility of various agencies for specific disasters, i.e. flood; open burning, forest fire, haze, industrial disasters and etc.

established on May 11, 1997



Disaster Management Mechanism

Level 1

- District Disaster Management Committee (DDMC)
- Chaired by the District Officer
- Ensure coordinated actions, sufficient assets and human resources, and manage the media

Level 2

- State Disaster Management Committee (SDMC)
 - Chaired by the State Secretary
- Assist the District level in terms of assets, monetary assistance and human resources

Level 3

- Central Disaster Management Committee (CDMC)
 - Chaired by the Deputy Prime Minister/Minister at the Prime Minister's Department
 - Setting up policy and strategy in disaster management , mobilise assets, monetary assistance and human resources

Preparedness Step

"Each party shall, individually or jointly..."

Preparedness Initiatives

- Identify, monitor update disaster risk profile
- Improve human resource and competency, equipment, communication and networking technology, finance and others for effective disaster response

Prepare own ERP

Early Warning System

- Plan for effective warning system
- Share information with related

Inter Agency Exercise/ Drill

- Inter-agency or Intra-agency
- Involve multisectoral stakeholders
- Plan and organize continuously

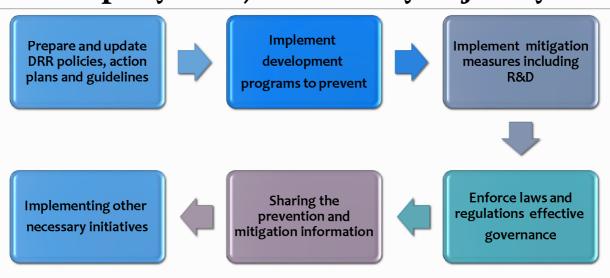
Awareness

- Participate communities at risk areas
- Enhance capacity building against disaster
- Manipulate media

Training

- Internal capacity building
- Enhance understanding and capabilities on handling disaster

Disaster Prevention and Mitigation "Each party shall, individually or jointly..."



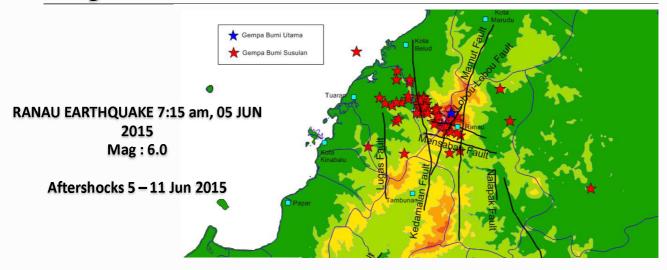
Recovery Program After Disaster

Rehabilitation and reconstruction programs should be implemented immediately after a disaster occurs. Government agency, statutory, private and voluntary bodies involved, responsible for implementing damage assessment, restoration and reconstruction of public infrastructure under their jurisdiction.
DDMC and SDMC are responsible for assessing, planning and recommendations to CDMC on the proposed rehabilitation and development programs to take into account the concept of Disaster Risk Reduction.
☐ CDMC are responsible for deciding restoration and redevelopment program that will be implemented and set the relevant government agencies or parties for its implementation.
EARLY WARNING SYSTEM
EARLI WARINING SISIEM
Malaysian Meteorology Department (MMD) ☐ Tsunami Early Warning System ☐ Weather Forecasting
weather Forceasting
Malaysian Department of Irrigation and Drainage (DID)
☐ Telemetry System: Flood Forecasting Model and <i>Infobanjir</i>
 □ Telemetry System: Flood Forecasting Model and <i>Infobanjir</i> Malaysian Center for Remote Sensing (MACRES) □ Disaster Management Application System

☐ Air Pollutant Index (API) - Haze

RESEARCH PLAN

Background



Specific Aims

Desired Field(s) or Subjected(s) of Research:

Reducing the risk of earthquake disaster by increasing preparedness in Sabah

The main objective of this research is to enhance disaster preparedness among local agencies, organisations and communities in Kundasang, Sabah (Mount Kinabalu areas) through the development and implementation of an earthquake emergency response plan.

