



ADRC Tsunami Seminar Practical Tsunami Countermeasures in

THAILAND

15 June 2022

ACM. Somneuk Swatteuk
NATIONAL DISASTER WARNING CENTER

26 December 2004 Tsunami

Time 07.58 am.

Dec 26, 2004

Location

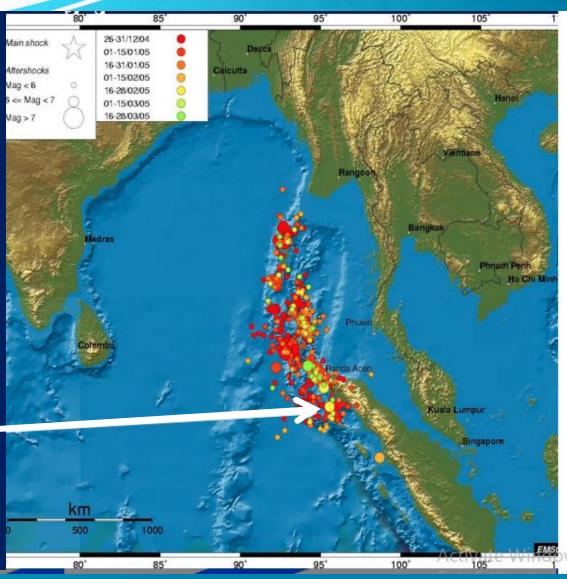
Northern Sumatra

Indonesia

Magnitude

Earthquake Magnitude 9.3

Wide Spread Impact __ Indian Ocean Countries



Timeline of NDWC

11 Jan 2005

Appointment of the Committee for the Development of an Early Warning System.

30 May 2005

NDWC was officially
opened and under the
Prime Minister's Office.

2009

Cancellation of the Prime Minister's regulations governing the administration of the National Disaster Prevention and Regulation Act of 2005 (No. 2). Using Act 2007 the National Disaster Warning Center was an agency under the Ministry of ICT.

2007

2009

2016-2017

2005

Tsunami 26 Dec 2004 8 April 2005
Appointment of
Sub-Committee
on National
Disaster Warning
Center
Administration.

2007

NDWC Was moved under office of The Ministry of information and communication technology MICT

16 Sep 2016

The Improvement Ministries
(No. 17) Act 2016, Section 18 and
19 to transfer the National Disaster
Warning Center. To the
Department of Disaster Prevention
and Mitigation, Ministry of Interior.

Department of Disaster Prevention and Mitigation (DDPM)

2002 : established DDPM and transferred duties concerning disaster prevention and mitigation that scattered in 5 other departments to DDPM

2004: Indian Ocean tsunami occurred, killing 5,395 Thais. Thailand realized there was no appropriate procedure in dealing with big scale disaster.

2007: DPM Act came into force state that DDPM is a main in charge government agency to integrate and collaborate with relevant agencies in disaster management

Thailand Disaster Management System

Based on:

- 1. Disaster Prevention and Mitigation Act 2007
- 2. National Plan on Disaster and Mitigation 2021-2027
- 3. The National Committee on Disaster Prevention and Mitigation: top policy making body.
 - composed of disaster management related ministries, agencies and academia
 - chaired by the Prime Minister
 - DDPM is the Secretariat and executive arms

Disaster Management Strategies

- 1. Mainstreaming Disaster Risk Reduction into planning and development at all levels.
- 2. Effective and integrated emergency management system.
- 3. Sustainable disaster reconstruction and recovery with "Build Back Better"
- 4. International Cooperation.

DDPM Programs and activities

Before Disaster

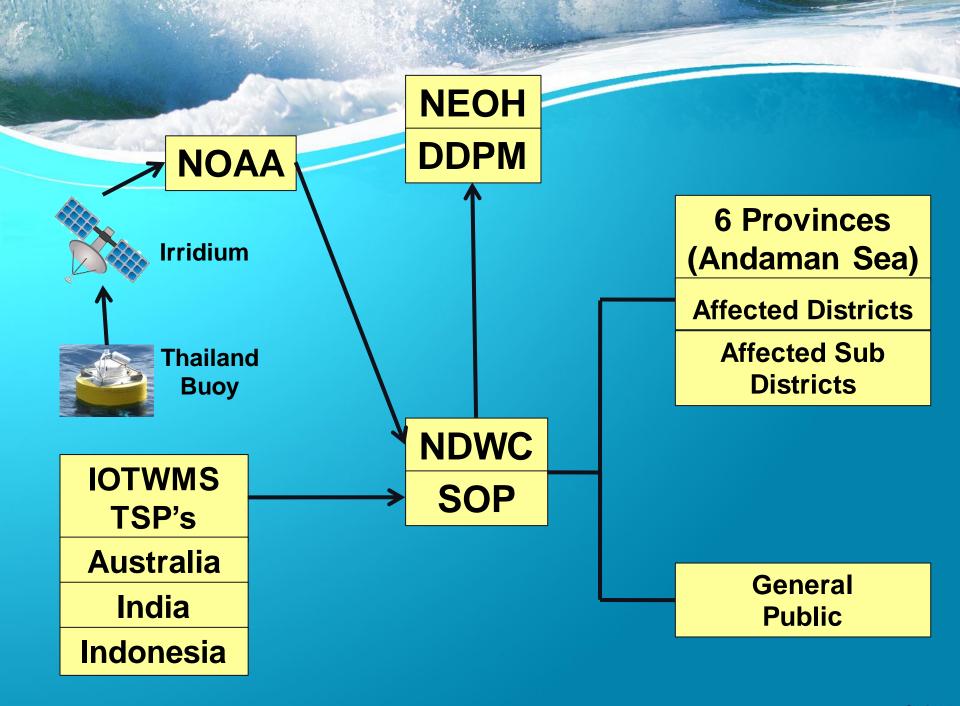
- Community Based Disaster Risk Management (CBDRM)
- Disaster Response Simulation Exercise
- Disaster risk education and awareness promotion

During Disaster

- Disaster Early Warning System
- One Tambon One Rescue (OTOS)
- Emergency Response Team

After Disaster

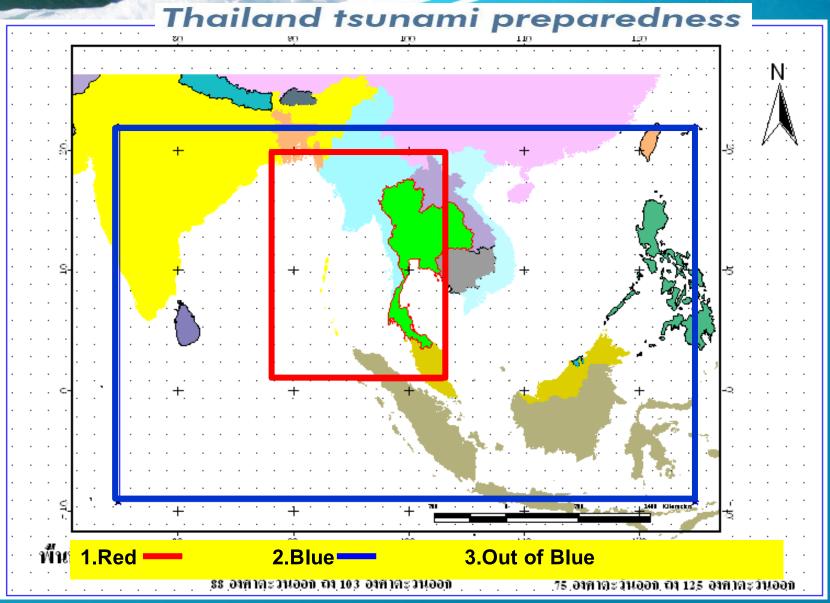
- The Disaster Emergency Relief Fund
- Post Disaster Need Assessment (PDNA)
- Build Back Better



Equipment and Tools

- Hotline (12 Numbers)
- SMS
- FAX (16 Ports)
- Email
- BAS (Broadcast Alert System) to Digital TV
- Warning Tower System
- Government Radio Station (Central and local)
- Call Center 1784
- Social Network
- Application

Operational Processes Seismic awareness zones of



Operational Processes Criteria

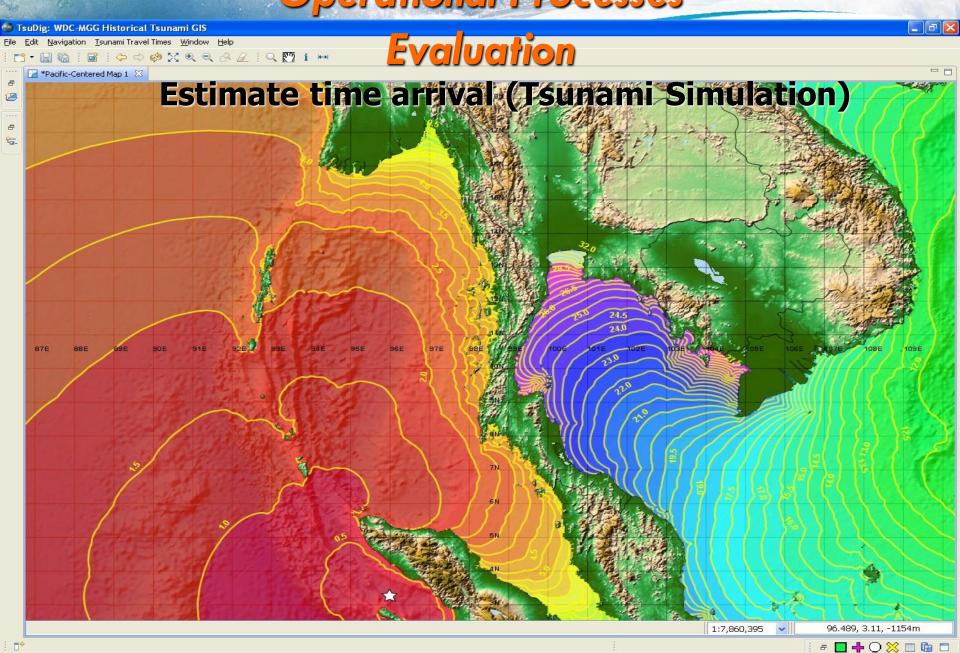
Zone1: Red Box (3°N – 23°N and 88°E – 103°E)			
Depth: Magnitudes	Hypocenter		
	<100 km	>100 km	
5.0 - 6.5 Richter	Do not generate tsunami Reporting	Do not generate tsunami Reporting	
6.6 – 7.7 Richter	Potential to generate tsunami Watching (tracking more information)	Potential to generate tsunami Watching (tracking more information)	
> 7.8 Richter	High tsunami potential Warning	Tsunami potential Watching (tracking more information)	

Depth: Magnitudes	Hypocenter		
	<100 km	>100 km	
5.7 - 7.0 Richter	Do not generate tsunami Reporting	Do not generate tsunami Reporting	
	(tracking more information)		
> 7.1 Richter	Potential to generate tsunami Watching (tracking more information)	Potential to generate tsunami Watching (tracking more information)	
	If no tsunami occurs, then status changed to Warning	If a tsunami occurs, then status changed to Warning	

Depth:
MagnitudesHypocenter> 7.0 RichterHave no impact on Thailand
ReportingHave no impact on Thailand
Reporting

Zone 3: Other areas not included in the Red and Blue Boxes

Operational Processes



Operational Processes



TTT List



Save As...

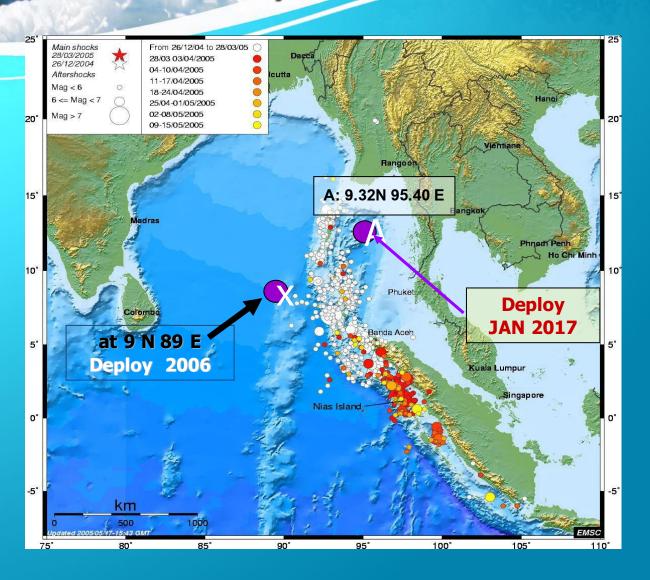
TSUNAMI modeling

National Disaster Warning Center, THAILAND

Pal; Nam Chum Porn



Tsunami Buoy in Andaman Sea



Warning System

ช่องทางการเข้าถึง "**ทารเตือนภัยพิบัต**" ของประชาชน







National Disaster Warning Center

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