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Intergovernmental Oceanographic Commission

Sri Lanka
Tsunami Ready Report

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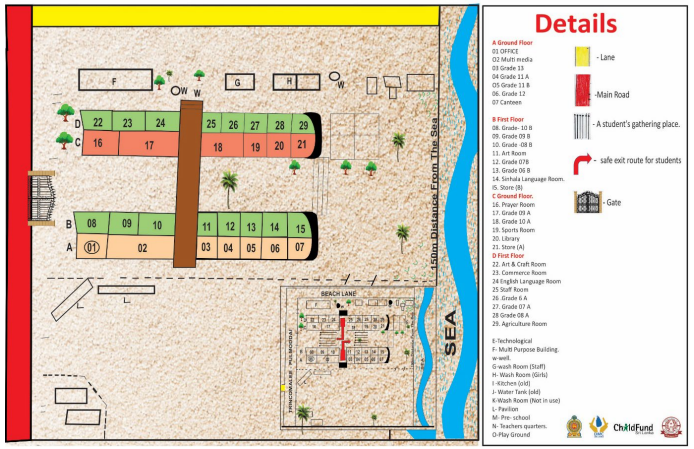
ICG/IOTWMS Intersessional Meeting of Working Group 3
on Tsunami Ready Implementation, 21 August 2024

Community Tsunami Preparedness Programme

School Preparedness Planning



Tsunami Ready Programme (IOWave23 as an initial step towards commencing the TRRP)

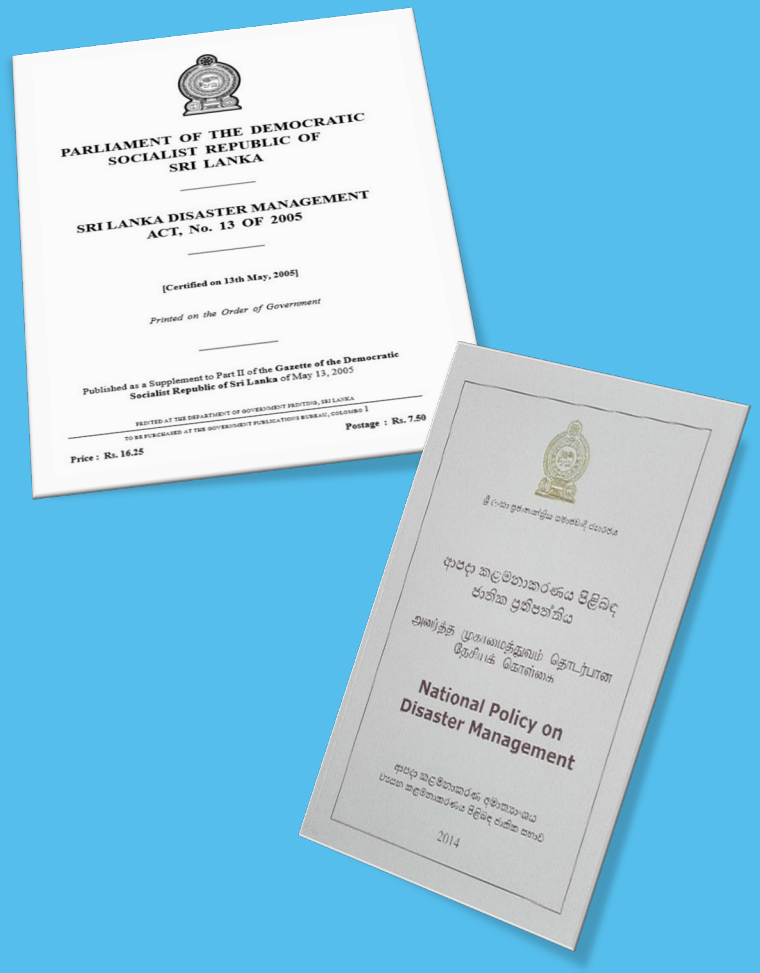
Tsunami Ready Implementation

Technical Advisory Committee on Tsunami EW

Representing	Designation
Ministry of Disaster Defence	Secretary
Disaster Management Centre (NDMO)	Director General
Meteorological Department (NTWC)	Director General
Geological Survey and Mines Bureau	Director
National Aquatic Resources Research and Development Agency	Director General
Department of Civil Engineering, University of Moratuwa	Representative
Sri Lanka Navy	Specialist Hydrography

Reference: National Disaster Management Act (2005)

Reference: Tsunami Ready in Indian Ocean by Ardito M Kodijat (2021)



Tsunami

Preparedness

National Council for Disaster Management

Ministers in charge of

- Defense
- Rehabilitation & Reconstruction
- Home Affairs
- Health
- Science & Technology
- Housing
- Coast Conservation
- Irrigation
- Power
- Social Services

National Council for Disaster Management

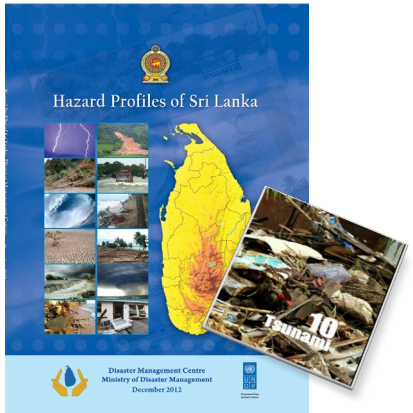
Chair Person : H.E. President
Vice Chairman: Hon. Prime Minister
Leader of Opposition
Nine Provincial Chief Ministers
Five MPs from Opposition

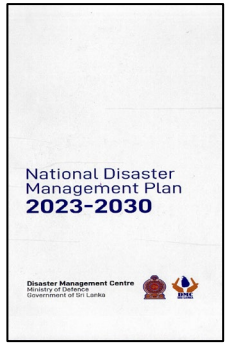
Ministry of Disaster Management

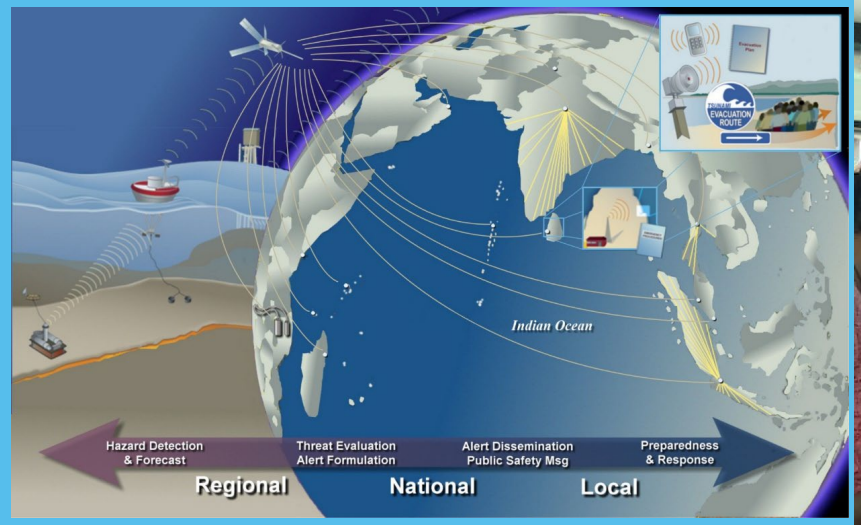
DMC

Ministers in charge of

- Police
- Finance
- Land
- Fisheries & Aquatic Resources
- Foreign Affairs
- Water Supply
- Highways
- Urban Development
- Education
- Environment
- Economic Development





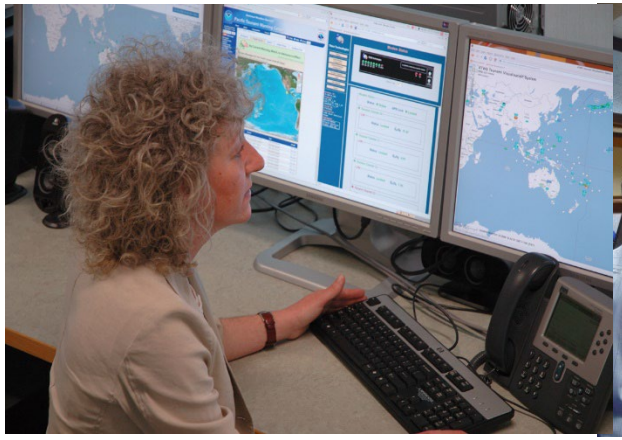


Tsunami Early Warnings

IOTWMS

Indian Ocean Tsunami

Tsunami Service provides-TSPs

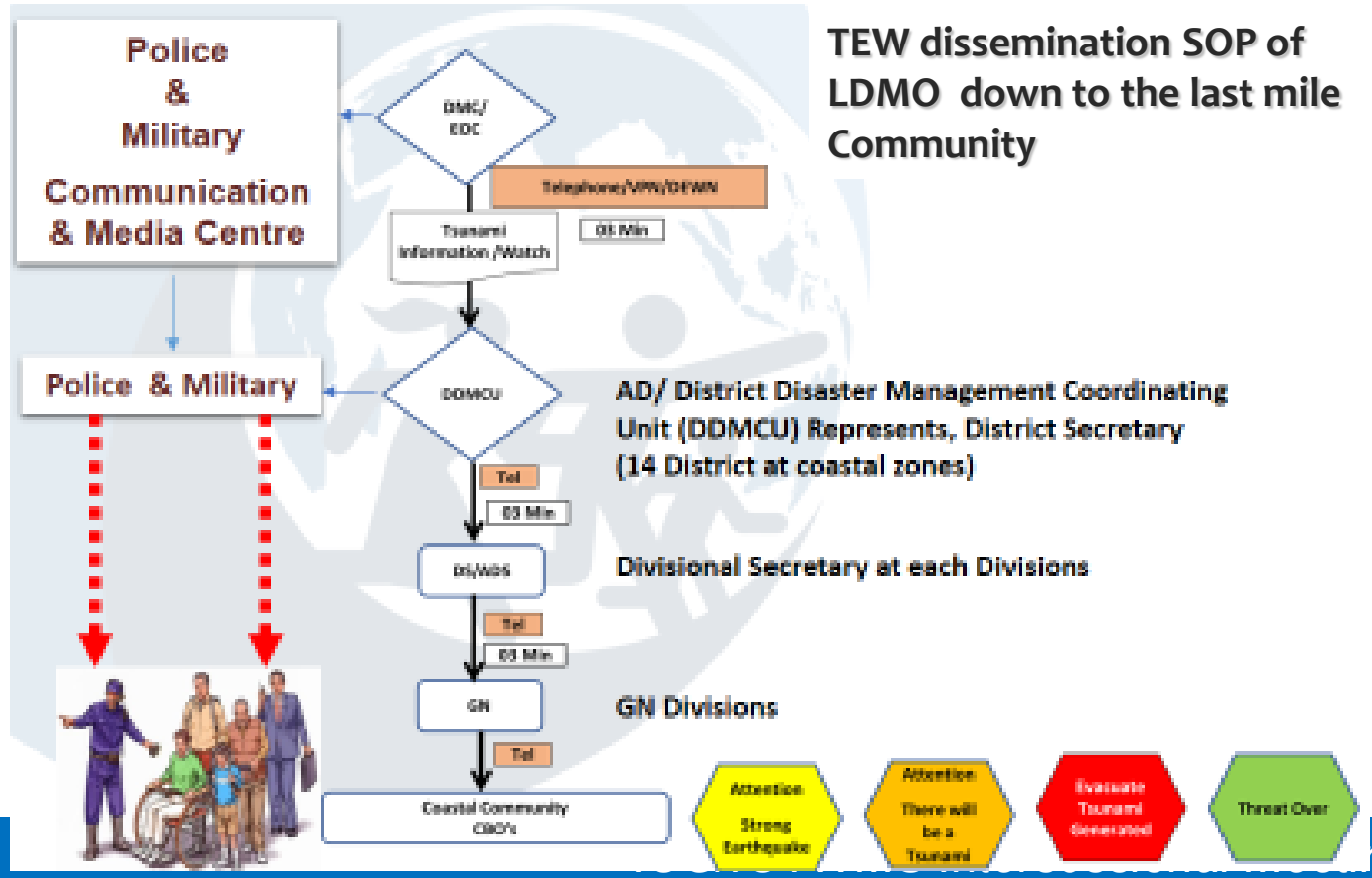


Australia

India,

Indonesia

Tsunami EW mechanism of Sri Lanka



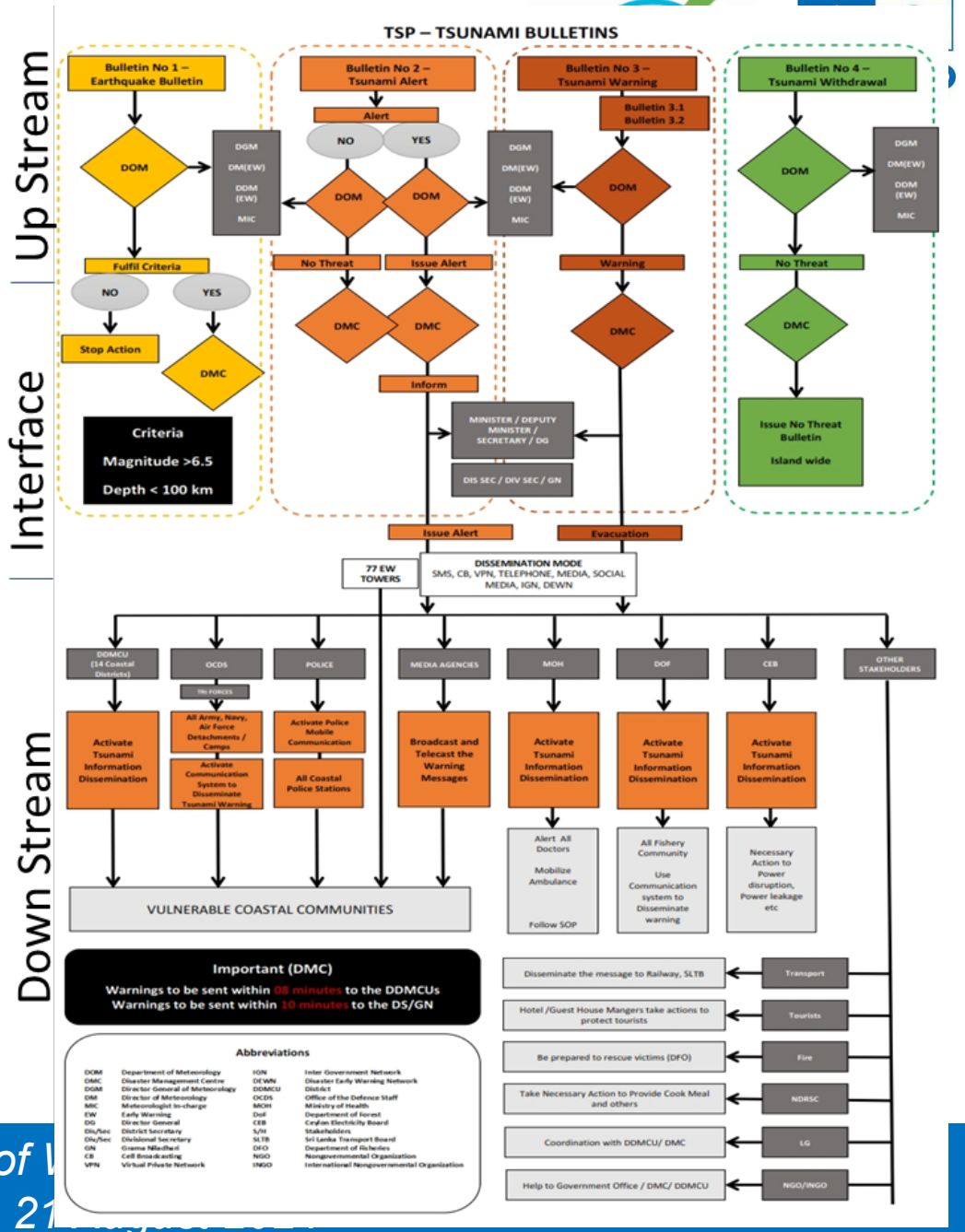
TEW dissemination SOP of LDMO down to the last mile Community

AD/ District Disaster Management Coordinating Unit (DDMCU) Represents, District Secretary (14 District at coastal zones)

Divisional Secretary at each Divisions

GN Divisions

TEW dissemination SOP of NDMO down to the last mile



Sri Lanka

10min

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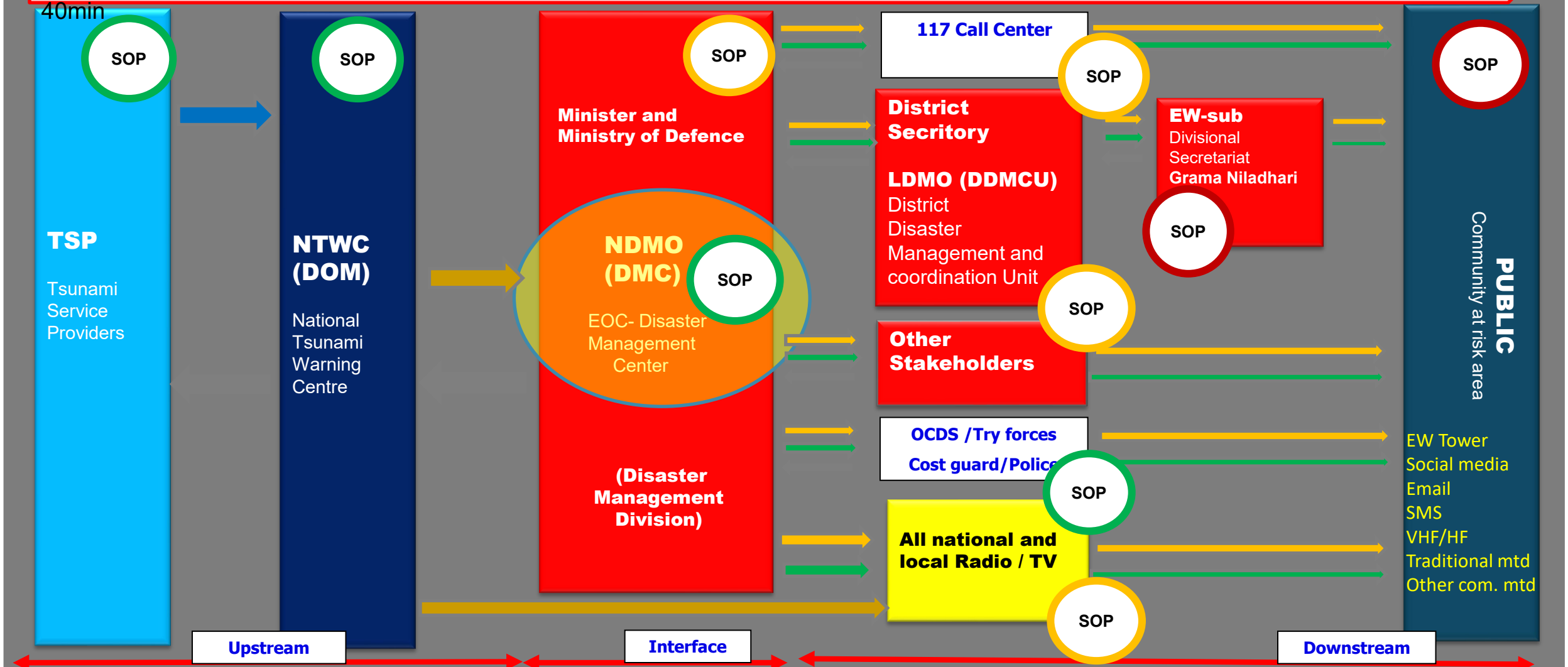
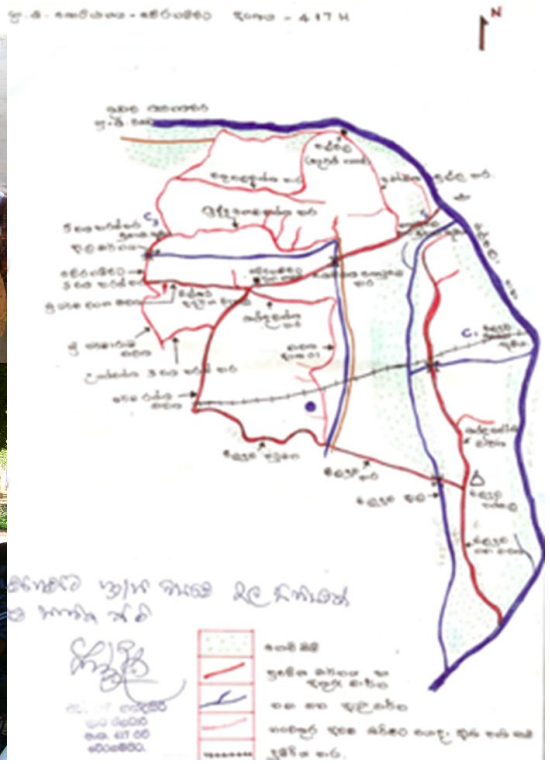
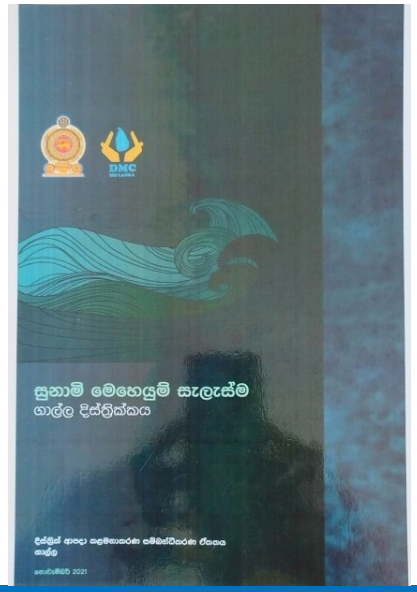
12.07.2023



Tsunami community preparedness, and response;





School Safety Program

ICG/IOTWMS Intersessional Meeting of Worki

Indian Ocean Tsunami Exercise *on Tsunami Ready Implementation, 21 Aug* 20XX

Tsunami Ready Implementation

No	IOC/UNESCO Tsunami Ready Indicators	Actions
I.	**Assessment (Assess)**	
1	Tsunami Hazard zones are mapped and designated.	• Scenario-based hazard maps • Make them accessible to the general public
2	The number of people at risk in the tsunami hazard zone is estimated.	These two indicators combined and referred to as "Have a Community Tsunami Risk Reduction Plan" (IOTR, 2018)
	Economic, infrastructural, political, and social resources are identified.	Estimate and identify • The coastal resident population, dynamic crowd • Public institutions, commercial establishments • Community-level resources (Human/ Physical)

Tsunami Ready Implementation

No	IOC/UNESCO Tsunami Ready Indicators	Actions
II.	**Preparedness (PREP)**	
3	Easily understood tsunami evacuation maps are approved.	• Develop community evacuation plans • Identify areas for infrastructure development • Provide necessary infrastructure
4	Tsunami information including signage is publicly displayed.	Display : • Infographics on Tsunamis (History, Key facts) • Hazard zones • Evacuation signage (Routes, Centres) • Mean Sea Level (MSL)
5	Outreach and public awareness and education resources are available and distributed.	Prepare materials on tsunami-related information and disseminate them to the communities via different media platforms.
6	Outreach or educational activities are held at least three times a year.	Tsunami hazards, evacuation routes, warnings (including natural warnings), safety procedures, and appropriate response actions.
7	A community tsunami exercise is conducted at least every two years.	Conduct a bi-annual tsunami community exercise.

Tsunami Ready Implementation

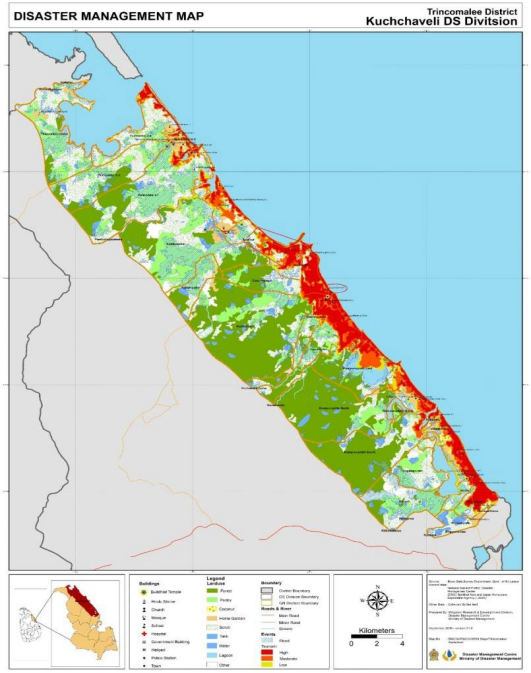
No	IOC/UNESCO Tsunami Ready Indicators	Actions
III.	**Response (RESP)**	
8	A community tsunami emergency response plan is approved.	SOPs and TOPs for all levels outlining • The impact of tsunami hazards on communities • Responsibilities of authorities, including those at the community level.
9	The capacity to manage emergency response operations during a tsunami is in place.	Activate a 24-hour focal point should be in place • Supported with necessary resources • Focal point to share real time tsunami threat
10	Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.	Reliable mechanism to receive Early Warnings and Disseminate them at the community level • Should explore alternatives (As currently, the EW tower system is not working) • Develop and strengthen community-level warning mechanisms

Tsunami Ready Implementation

Tsunami Ready Indicator Assessment during IOWave23

IOWave23 as an opportunity to test tsunami-ready indicators:

- ❑ 3 villages within two Grama Niladhari Divisions were included for testing indicators



No	IOC/UNESCO Tsunami Ready Indicators	Satisfaction Rating for the Indicator
I.	**Assessment (Assess)**	
1	Tsunami Hazard zones are mapped and designated.	0 1 2 3 4
2	The number of people at risk in the tsunami hazard zone is estimated and	0 1 2 3 4
3	Economic, infrastructural, political, and social resources are identified.	0 1 2 3 4
II.	**Preparedness (PREP)**	
4	Easily understood tsunami evacuation maps are approved.	0 1 2 3 4
5	Tsunami information including signage is publicly displayed.	0 1 2 3 4
6	Outreach and public awareness and education resources are available and distributed.	0 1 2 3 4
7	Outreach or educational activities are held at least three times a year.	0 1 2 3 4
8	A community tsunami exercise is conducted at least every two years.	0 1 2 3 4
III.	**Response (RESP)**	
9	A community tsunami emergency response plan is approved.	0 1 2 3 4
10	The capacity to manage emergency response operations during a tsunami is in place.	0 1 2 3 4
11	Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place.	0 1 2 3 4
12	Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.	0 1 2 3 4

Technical Support Requirements

- ❑ Technical Support for Hazard Map development
- ❑ Knowledge sharing sessions - Lessons learned and success stories
- ❑ Technical support for reviewing, revising and improving current SOPs and development of new SOPs for near-field tsunamis

THANK YOU