

SOLOMON ISLANDS GOVERNMENT

# Solomon Islands Tsunami Warning Arrangements



Linda R Tonowane Forecasting Section Meteorological Division

Ministry of Environment, Climate Change, Disaster Disk Management and Meteorology P.O BOX 21, Honiara, Solomon Islands Email: <u>forecast@met.gov.sb</u>

www.met.gov.sb



## Solomon Islands on the Map



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Source: Google maps

# Solomon Islands in brief





 Population: Approx. 734000
 Total of 9 provinces
 Highest Mt; 2,335 m
 3 Volcanoes + 1 submarine Namely Tinakula, Savo, Simbo and Kavachi



Source: Google maps and facebook pages



**Brief Content** 



- - 1. COMMON HAZARDS AND THEIR RISK LEVEL IN SI
  - 2. TSUNAMI WARNING SUB-PLAN
  - 3. OVERVIEW OF TSUNAMI WARNINGS
  - 4. THREAT ASSESSMENT
  - 5. EDUCATION AND AWARENESS
  - 6. CHALLENGES



### Common hazards and their risk levels for Solomon Islands



0	Hazards	Risk Level	Remarks	-
	Cyclone	High	Season: Nov to April. At least 2/year	
	Rising sea level/Coasta l surge	High	Affect low lying atoll islands 99% of Coastal Villages	
	River Flooding	High		-
	Tsunami	High	80 year history - SI experienced 19 events, highest mag 8.1	
	Earthquake	High	Situated on the Seismic belt	
	Landslides	High	Communities have been relocated	WEST
	Drought	Low	1986/7 Experienced the worst drought	5,01
	Volcanic Fruption	High	Savo, Simbo, Tinakula, Kavachi	Ma Ge Co Pr Da 15







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## **Tsunami Warning Sub-plan**

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### FLOW CHART FOR TSUNAMI WARNINGS:



## **Overview of Tsunami Warnings**

Type of Message	Hazard Potential (Impacts)	Public Action Statement
No Threat statement Scenario 1	No threat or very distant event for which hazard has not been determined	No action
Tsunami Watch Scenario 2	Tsunami Possible Alert level may change once more information is known	Be prepared to act Stay tuned to local radio/TV
Tsunami Advisory Scenario 3	Marine threat - Strong currents and waves dangerous to those in or very near coastal waters	Stay out of the water and away from the shore
Tsunami Warning Scenario 4	Marine & Land threat - Dangerous coastal flooding and powerful currents	Move to high ground or inland immediately
Cancellation	Threat passed	
All Clear	Issued by NDMO	







# **Education and Awareness**

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- Pre-school, primary,
   Secondary school and tertiary students awareness programs
- Help schools established their disaster plans and conducting drills and exercise
- Conducting awareness and disaster plans(preparedness and response) in rural communities with other NGOs(Save the children, World Vision, Red Cross etc)



Students grouped in their own class as they arrived at the safe area to allow head count to be conducted out easily by the class teachers



Students arrived at the safe area and briefed by the head teacher.



With Save the Children team to Isabel province, March 2024

### **Education and Awareness**



Image above: World met Day 2024



awareness at the National University with the nursing students



Students participating during World tsunami awareness day 2023



During our school visitation programs in one of the boarding schools

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# **Education and Awareness**



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### WHAT TO DO? SENSING A TSUNAMI



Tsunamis can be detected using our human senses. Recognize a tsunami's natural warning signs.

#### FEEL

- Big local earthquakes may cause tsunamis.
- FEEL the ground shaking severely, or for a long time?

### SEE

- Tsunami may be preceded by a rapid fall in sea level as the ocean recedes, exposing reefs, rocks, and fishes on the sea bottom.
- Tsunami often come ashore as a wall of water, and quickly flood inland.
- SEE an unusual disappearance of water, or oncoming wall of water?

#### HEAR

- Abnormal ocean activity, a wall of water, and approaching tsunami create a loud "roaring" sound similar to that of a train or jet aircraft.
- HEAR the roar?

### RUN

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- Don't wait for official evacuation orders.
- Immediately leave low-lying coastal areas.
- Move inland to higher ground.
- RUN if you see a tsunami coming!



A UNESCO/IOC - NOAA Partnership E-mail: Ric tsunami@noas.gov Web: http://www.tsunamiwave.org

### Natural Warnings- Response to local tsunami



### **Tsunami Ready Program**



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Assessment stage Workshop conducted last month



# Challenges /Limitations



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- Delay of seismic data especially locally felt earthquake – (15- 20 minutes varies with magnitude).
- Limited observation network- seismic and sea level stations.
- Limited communication coverage and No SMS Need to established focal contacts.





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# Thank you

# **Muchas Gracias**