4.18 Learning Activity:
Tsunami Warning and Emergency Timeline

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Activity – What Happens and When?

- Put activities in chronological occurrence
- Work Individually – 10 min
- Plenary Discussion – 10 min

LEARNING ACTIVITY
TSUNAMI EVENT CHRONOLOGY

TSUNAMI WARNING AND EMERGENCY RESPONSE TIMELINE
WHAT HAPPENS AND WHEN DOES IT HAPPEN?

During the occurrence and unfolding of a local tsunami event, reaction time is of the essence. Put the following activities in order of chronological occurrence from 1 to 17 for a local tsunami scenario. Some activities may occur nearly simultaneously. Assume power and communications are still operable after the strong earthquake.

*Each major activity undertaken by government should be described by an SOP.*

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- Drop, Cover, and Hold (Protect yourself from earthquake shaking damage)
- Local emergency management issues All-Clear message
- Search and rescue operations begin
- PTWC or US NTWC (WC/ATWC) issues message
- Strong earthquake is felt
During the occurrence and unfolding of a local tsunami event, reaction time is of the essence. Put the following activities in order of chronological occurrence: 1 to 19 for a local tsunami scenario. Some activities may occur nearly simultaneously. Assume power and communications are still operable after the strong earthquake.

Each major activity undertaken by government should be described by an SOP:

- Drop, Cover, and Hold (Protect yourself from earthquake-shaking damage)
- Local emergency management issues All-Clear message
- Search and rescue operations begin
- PTWC or DHWC (WMO/WC) issues message
- Strong earthquake is felt
- CEO or Local Authority issues Evacuation
- Pacific level change observed
- Public reports tsunami evacuation zone
- Tsunami Warning Center cancels Tsunami Warning
- Evacuate coastal areas
- NTWC or WPC issues Tsunami warning
- Public moves quickly to higher ground
- Stay remote-in-post for a local tsunami (for deployed seen to deep water for regional or high tsunami depending on the local area)
- Media issues Tsunami warning broadcast
- Shells sounded
- Food-distribution begins
- Electricity restored
- Other = Please Specify

Other = Please Specify

Other = Please Specify
Each major activity should have an SOP

1. Strong earthquake is felt
2. Drop, cover, hold (Protect yourself from earthquake)
3. Public moves quickly to higher ground
4. PTWC and US NTWC issues messages
5. Ship remain in port for a local tsunami (or deploy to deep water for regional/distant tsunami depending on forecast wave arrival time).
6. NTWC issues Tsunami Warning / RTSP issues msg
7. Sirens sounded
8. Media issues Tsunami Warning Broadcast
9. DMO or Local Authority issues Evacuation
10. Public Evacuate coastal areas
11. Rapid sea level change observed = Tsunami arrives
12. Tsunami Warning Center cancels Warning
The movement of the ships will vary between ports and harbors. Road Clearing and Search and rescue performed before and after all clear. Responses will vary depend on country protocols. After the event, Shelter, Damage Assessments and Recovery activities need to be addressed. Communications need to be maintained during the whole process. Press Conference and Visit of the Authority. Science contribution. Need for post tsunami protocols.
Each major activity should have an SOP

1. Strong earthquake is felt
2. Protect yourself from earthquake (Drop, cover, hold)
3. Public moves quickly to higher ground

7. Rapid sea level change = Tsunami arrives

React to Natural Warnings -
Feel, Hear, See, Run -
Public moves quickly to higher ground

NTWC issues Tsunami Warning / RTSP issues msg

Sirens sounded

Media issues Tsunami Warning Broadcast

DMO or Local Authority issues Evacuation

Public Evacuate coastal areas

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Each major activity should have an SOP

**DMO decides Community Threatened** -

**Issues Public Safety Action by multiple methods** -

*(voice, text, siren, video)* -

**Trigger Tsunami Coastal Evacuation** -

*(roadblock, safe areas/bldgs)* -
What are Frequently Asked Questions?

Top 3 questions

1. What are FAQs that Media asks NTWC and DMO
2. What are FAQs that Public asks DMO?
3. What are FAQs that Public asks NTWC/TWFP?
Thank You