





## Hawaii Hazards Awareness & Resilience Program

Produced by  
Hawaii State Civil Defense




## HAWAII HAZARDS AWARENESS & RESILIENCE PROGRAM:

**GOAL:** To enhance community resilience to multiple hazards through a facilitated education and outreach program that promotes hazard understanding and awareness, and offers tools and information resources to guide mitigation, preparedness, response and recovery.



"This is an Exercise"

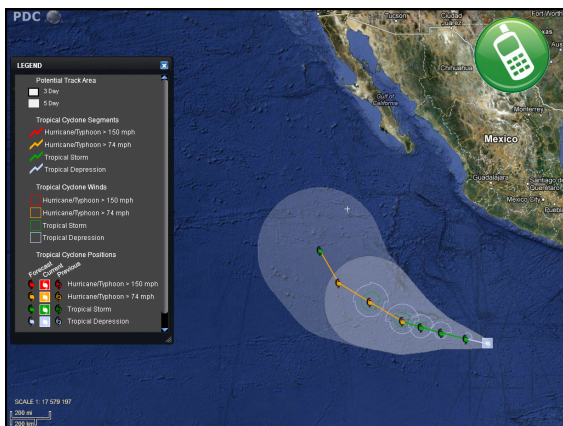

## HURRICANE EXERCISE SCENARIO



## Scenario Background

- A Tropical Depression formed in the Eastern Pacific off the coast of Mexico several days ago. It quickly reached Tropical Storm strength, and has been named "Flossie."
- The National Hurricane Center (NHC) is tracking the storm and issuing advisories.
- Flossie is steadily moving westward into the Central Pacific and toward the Hawaiian Islands.

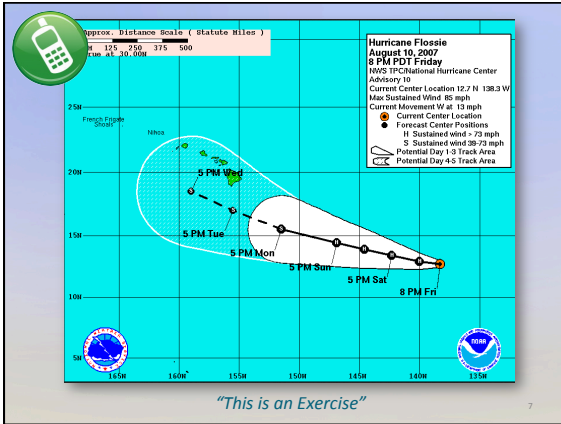
*"This is an Exercise"*

## Exercise Start

- Flossie reached Hurricane (Cat 1) strength yesterday as it moved into the Central Pacific at 140 W longitude, and is travelling westward at 13 mph.
- The Central Pacific Hurricane Center (CPHC) has taken over forecasting responsibilities from NHC.
- Forecasts indicate that the hurricane could begin to impact the Hawaiian Islands in approximately 72 hours (3 days).
- High surf along south and east shores of the islands is anticipated to precede the storm's arrival.
- Flossie is forecast to weaken as it moves closer to the islands, but should not be underestimated at this time.

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**DISCUSSION**

**Scenario Update 1:**

- It is now 48 hours until the storm makes landfall:
  - Flossie has reached Category 2 Hurricane strength with maximum sustained winds of 102 mph.
  - CPHC has issued a HURRICANE WATCH for your island.
  - Large surf is battering harbor entrances and low-lying coastal areas.
  - Some coastal roads have been flooded due to the high surf.

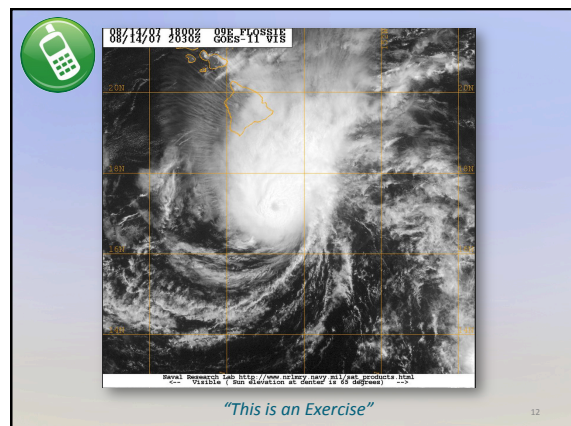
*"This is an Exercise"*


**DISCUSSION**

**Scenario Update 2:**

- It is now 36 hours until landfall:
  - CPHC has issued a HURRICANE WARNING for your island.
  - Hawaii State Civil Defense has issued an evacuation of all low-lying coastal areas.
  - The storm has reached Category 3 strength with maximum sustained winds of 120 mph with higher gusts.
  - The hurricane's forward speed to the NW has slowed to 10 mph.
  - Heavy rains associated with the storm are causing streams to overflow onto roadways and water to pool in low-lying areas.
  - In coastal areas, damage is continuing to worsen with the arrival of the storm surge, which is pushing the high surf further inland.
  - Several roads have been washed out.


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## DISCUSSION

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### Scenario Update 3:

- Flossie made landfall on your island as a Category 3 Hurricane with maximum sustained wind speeds of 118 mph with higher gusts.
- As a result:
  - Trees and debris block roadways.
  - Power poles and lines are down.
  - Roofs have been ripped off several structures.
  - Heavy rains have flooded roadways and streams.
  - Large surf continues to affect coastal areas.


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## DISCUSSION

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### Scenario Update 4:


**The Aftermath:**

- The Hurricane has passed but your community has been greatly affected.
- Many people have been injured and require medical attention.
- Several homes and businesses have been severely damaged.
- Roadways to your community are choked with debris and, in a few areas, are flooded or washed out.
- There is no power and it is unlikely that it will be restored quickly.
- Some water sources are contaminated by silt and run-off.

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**DISCUSSION**


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**END OF EXERCISE PLAY**

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Questions?






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**MAHALO**

The Hawaii Hazards Awareness & Resilience Program (HHARP) is the result of a collaborative partnership between Hawaii State Civil Defense and the Pacific Disaster Center.

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