



**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.




**TROPICAL CYCLONE MONITORING AND RESPONSE**

Module 2: Detection, Warning & Response

**Contents**

- Tropical Cyclone Detection and Warning
- Tropical Cyclone Response Actions



Module 2: Detection, Warning & Response

**TROPICAL CYCLONE DETECTION AND WARNING**

**Hurricane Seasons**

- Central Pacific Ocean
  - June 1 to November 30
- Eastern Pacific Ocean
  - May 15 to November 30
- Western Pacific (west of 180° longitude)
  - All year

### National Weather Service National Hurricane Center (NHC)

- Provides forecasts of the movement and strength of tropical weather systems and issues watches and warnings for the U.S. and surrounding areas.
- Located in Miami, Florida
- Maintains a continuous watch on tropical cyclones and areas of disturbed weather within the North Atlantic and eastern North Pacific basins.

Source: NWS NHC

### NHC Area of Responsibility Eastern Pacific

Graphical Tropical Weather Outlook | Active Storms | Marine Forecasts

### National Weather Service Central Pacific Hurricane Center (CPHC)

- Issues tropical cyclone warnings, watches, advisories, discussions, and statements for all tropical cyclones in the Central Pacific from 140° West Longitude to the International Dateline (180°).
- Located in Honolulu, Hawaii
- Activated when:
  - A tropical cyclone moves into the Central Pacific from the Eastern Pacific;
  - A tropical cyclone forms in the Central Pacific; or
  - A tropical cyclone moves into the Central Pacific from the West.

Source: NWS CPHC

### CPHC Area of Responsibility Central Pacific

Graphical Tropical Weather Outlook  
Central Pacific Hurricane Center - Honolulu, Hawaii

211 am HST Fri Aug 2 2013      Satellite Imagery: 130 am HST

Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

Low <30%      Medium 30-50%      High >50%

### NHC Hurricane Products

Graphical Track Maps      Text Advisories      Satellite Imagery

### When a Hurricane Nears Hawaii

- Watches and warnings are prepared for the Hawaiian Islands by the NWS Central Pacific Hurricane Center (CPHC) in Honolulu.
- Civil Defense receives official forecasts from CPHC and makes decisions regarding safety and evacuation.
- Emergency response personnel provide guidance to the public and manage evacuation activities.

## When a Hurricane Nears Hawaii

- YOUR ROLE:
  - Heed official guidance.
  - Closely monitor radio, TV, or NOAA Weather Radio for official bulletins.
  - Activate your personal disaster plan (secure your home, assist family members or neighbors, take your disaster supply kit if you evacuate, etc.)

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## When a Hurricane Nears Hawaii

- Tune in to your local radio station:

Location	Call sign	Frequency
Oahu	KSSK	590AM
	KRTR	96.3FM
Kauai	KQNG	93.5FM
Maui	KMVI	550AM
Hilo	KWXX	94.7FM
Ka'u	KAHU	91.7FM
Kona	KKBG	97.9FM
	KNDI	1270AM
	KREA	1540AM
Foreign Language Stations: Filipino, Korean, Japanese, etc.	KZOO	1210AM

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## Hurricane Watch

*Understand the difference between a Watch and a Warning*

- Hurricane Watch
  - Issued when there is a threat of hurricane conditions possible within 36 hours.
  - Preliminary precautions should be taken.

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## Hurricane Warning

*Understand the difference between a Watch and a Warning*

- Hurricane Warning
  - Issued when sustained winds of 74 mph or more are expected in a specified area in 24 hours or less.
  - A hurricane warning can remain in effect when dangerously high water or high waves continue, even though winds may be less than 74 mph.
  - Actions for protection of lives and property should begin immediately when the warning is issued.

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## Learning Check

1. What agency issues official information about tropical cyclones in the Central Pacific Ocean?
2. What is YOUR role when a hurricane is approaching Hawaii?

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Module 2: Detection, Warning & Response

## TROPICAL CYCLONE RESPONSE ACTIONS

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## When a Watch is Issued

1. Fuel and service family vehicles.
2. Prepare to cover all windows and door openings with boards, shutters or other shielding materials.
3. Check food and water supplies. Have clean, air-tight containers on hand to store at least two weeks of drinking water (14 gallons per person), and stock up on canned provisions. Keep a small cooler with frozen gel packs handy for packing refrigerated items.

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## When a Watch is Issued (continued)

4. Check prescription medicines - obtain at least 10 days to 2 weeks supply.
5. Stock up on extra batteries for radios, flashlights, and lanterns.
6. Store and secure outdoor lawn furniture and other loose, lightweight objects, such as garbage cans and garden tools.
7. Check and replenish first-aid supplies.
8. Have on hand an extra supply of cash.

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## When a Warning is Issued

1. Follow instructions issued by Civil Defense. Leave immediately if ordered to do so.
2. Complete preparation activities, such as boarding up windows and storing loose objects.
3. Evacuate areas that might be affected by storm surge flooding. If evacuating, leave early.
4. Notify neighbors and a family member outside of the warned area of your evacuation plans.

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## Learning Check

1. When a tropical cyclone WATCH is issued, what should you do?
2. When a tropical cyclone WARNING is issued, what should you do?

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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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