Disaster Management

Hurricane Preparedness 2013



Theme:

Plan for Disaster in Advances' Give Yourself a Fighting Chance

Terminologies

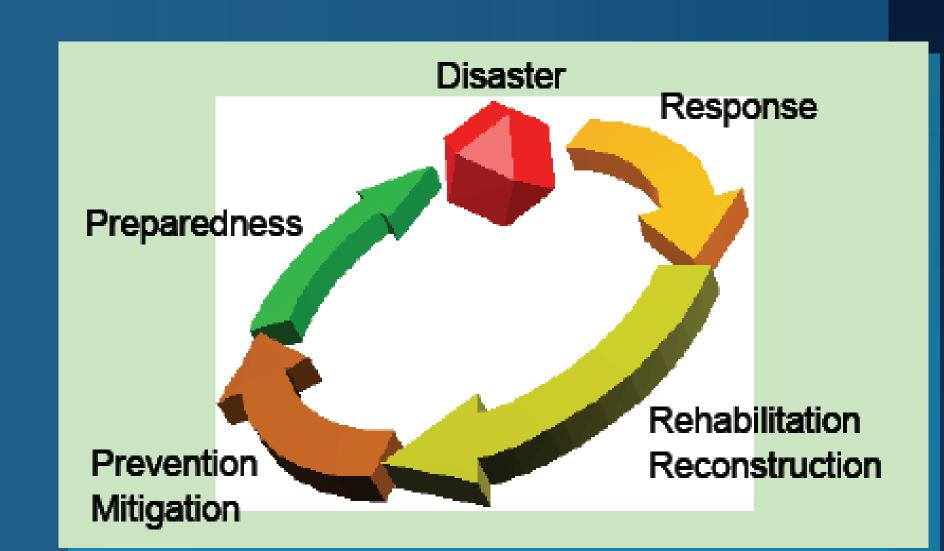
- **DISASTER** intense negative impact on people, goods and services and/or the environment, exceeding the affected community's internal capability to respond.
- Hazards The potential for a natural or man-caused phenomena to occur with negative consequences.
- Vulnerability The extent to which a community's structure, services or environment is likely to be damaged or disrupted by the impact of a hazard.

Hazards + Vulnerability = Disaster

Disaster Management

Disaster Management encompasses all aspects of planning for and responding to disasters, including the before, during, and after disaster activities. It refers to both the risk and consequences of a disaster.

Disaster Risk Management Cycle



PREVENTION

 Measures taken for the purpose of avoiding natural or man-caused phenomena from causing or giving rise to disasters or other emergency situations

MITIGATION

 Measures taken to reduce the loss of life, livelihood or property from the impact of disasters, either by reducing vulnerability or by modifying the hazard where possible

PREPAREDNESS

 Measures taken to reduce to the minimum level possible, the loss of human lives and other damage, through the organization of prompt and efficient actions of response and rehabilitation.

RESPONSE

 Actions carried out in a disaster situation with the objective to save lives, alleviate suffering and reduce economic losses.

REHABILITATION

 The restoration of basic services and the beginning of the repair of physical, social and economic damage.

RECONSTRUCTION

 The medium and long term repair of physical, social and economic damage, and the return of affected structures, to a condition better than before the disaster.

Hurricane Preparedness

2013 Season Forecast

- 18 named storm
- 9 hurricanes
- 4 major hurricane

What is a Hurricane?



A hurricane is a large storm or tropical cyclone that has wind speeds greater than 74 mph. that develops over the ocean. It spins in a counter clockwise circle as it moves across the water

Characteristics of a Hurricane

- Speed of Advance
- Circulation
- Eye
- Eye Wall

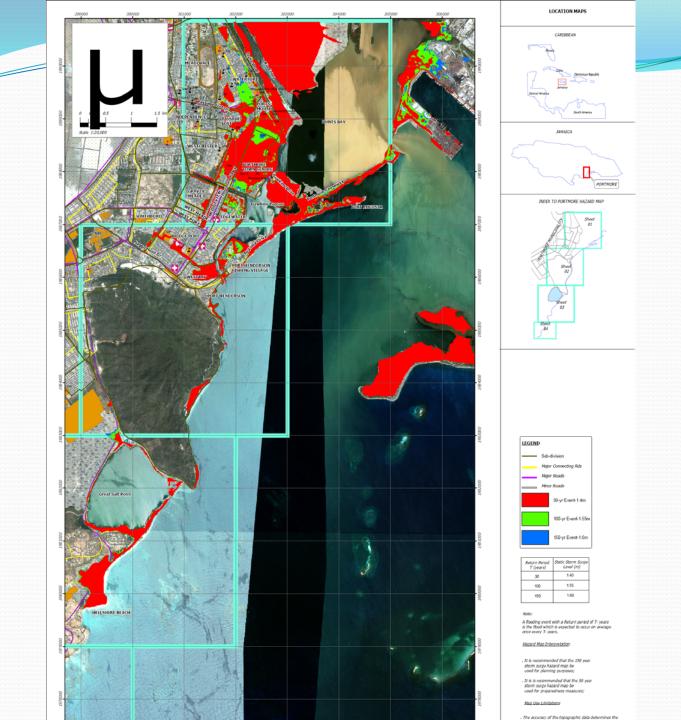
Stages of Hurricanes

Tropical Wave	A low pressure trough moving generally westward with the trade winds.
Tropical Disturbance	An organized area of thunderstorms that usually forms in the tropics. Typically, they maintain their identity for 24 hours and are accompanied by heavy rains and gusty winds.
Tropical Cyclone	A generic term for any organized low pressure that develops over tropical and sometimes sub-tropical waters. Tropical depressions, tropical storms, and hurricanes are all example of tropical cyclones.
Tropical Depression	An organized area of low pressure in which sustained winds are 38 mph or less.
Tropical Storm	A tropical cyclone with maximum sustained wind speeds that range from 39 to 73 mph.
Hurricane	A tropical cyclone with sustained winds of at least 74 mph.

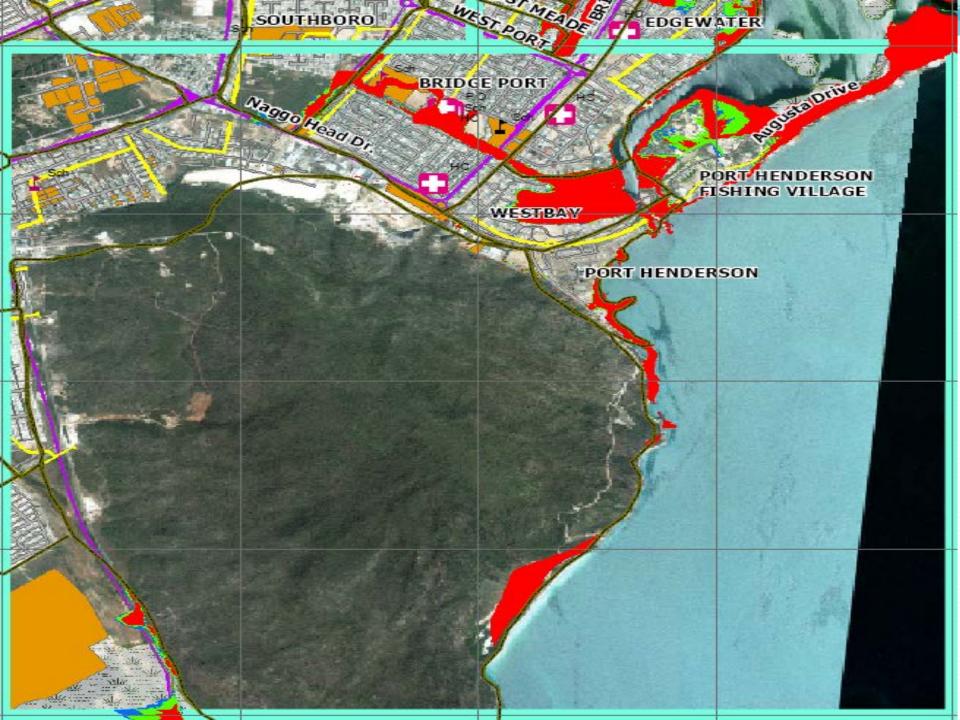
Destructive Elements of a Hurricane

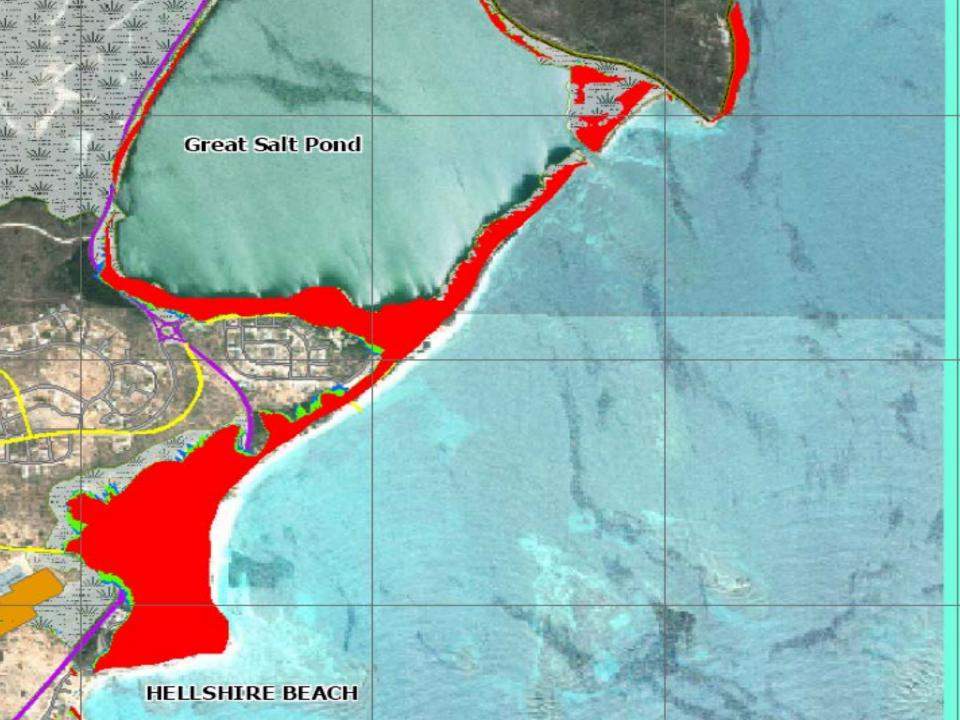


HAZARD MAP STORM SURGE IMPACT ZONES COMPARED STORM SURGE EVENTS: MASTER SHEET PORTMORE MUNICIPALITY, JAMAICA

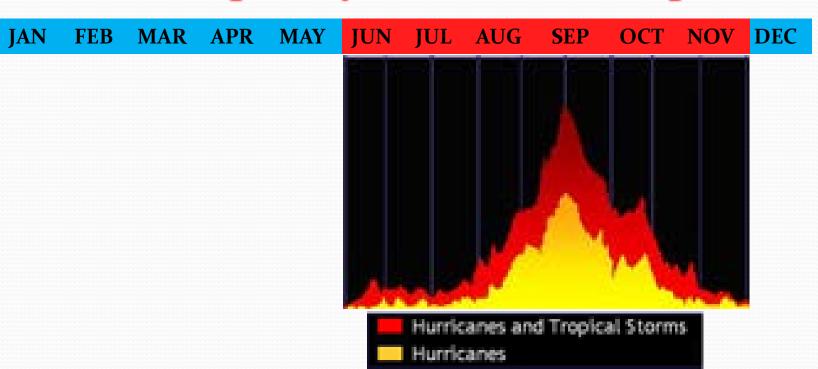








The Hurricane Season & the frequency of their development



General Impacts of a Hurricane

- Physical Damage
 - Loss of building, equipment and facilities
- Disruption to services/supplies
- Casualties & Public Health
 - Poor sanitation, spreading of diseases, death
 - Increased vulnerability
- Loss of infrastructure
 - Road access
 - Loss of utilities
 - Transportation



Damage to property from storm surge waves



Roadways reduced to water channel from hurricane rains

Steps in Preparedness

- Develop a Hurricane Response Plan
 - Select Safety Committee
 - Focus on pre and post event activities
- Conduct Vulnerability Assessments & Analysis for the facility
- Test plans & conduct simulation drills

Develop a Hurricane Response Plan

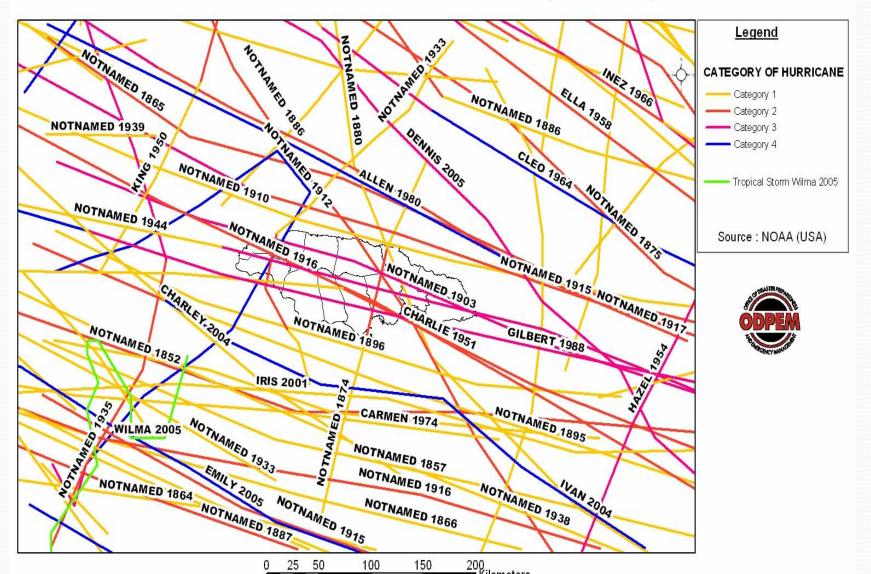
- Plan for interruption
- Acquaint all persons on the location of public shelters and contact persons
- Identify individuals (usually Security Guards) to monitor the property during the storm



Role of the Emergency Committee

- Determine how the facility will operate at different phases of the impending hurricane
- Establish staff's responsibilities for action, before and after the hurricane

Hurricane Paths from 1856-2005 (Jamaica)



HURRICANE WATCH

This means that the hurricane is a threat but there is no certainty that it will hit the island

It means therefore, that you must start preparing as hurricane conditions could be experienced within 48 hours or less.

DURING THE WATCH

- Check on the organization's insurance policy
- Secure the property
- Ensure drains are cleared
- Make backup of institution's records and store offsite
- Secure object which could become flying missiles
- Ensure the security guard is a part of the planning process

DURING THE WATCH

- Fill up car with gas
- Check flashlights, lamps and kerosene supply
- Store water
- Refill all medical prescription
- Listen to the radio and television
- Stock up emergency supplies

HURRICANE WARNING

This means that hurricane conditions will start affecting the island within 36-hours

Conditions include winds of at least 119 km/h (74mph), flood rains and storm surges

DURING THE WARNING

- Implement the hurricane component of the disaster plan
- Conduct briefing with staff and other stakeholders
- Determine resumption procedure
- Dismiss institution to facilitate personal preparedness

DURING THE HURRICANE

- Stay indoors
- Do not open windows or doors
- Do not go outside during the "Eye" unless it is to effect minor repairs to your roof
- Listen to the radio

AFTER THE HURRICANE

- Seek medical help at the hospital if necessary
- Do not touch dangling power wire
- Report broken sewer and water mains
- Boil drinking water
- Throw out spoiled foods

Emergency Supplies

- Prescription Medications
- Food and Water Container
- Flashlights/Spare Batteries
- Blankets
- Portable Radio
- First Aid Kit
- Manual Can Opener
- Important Documents/Cash



