

Disaster Management

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What is a Disaster?

An event is not a disaster

A disaster is an event which overwhelms the local capacity to attend the emergency.

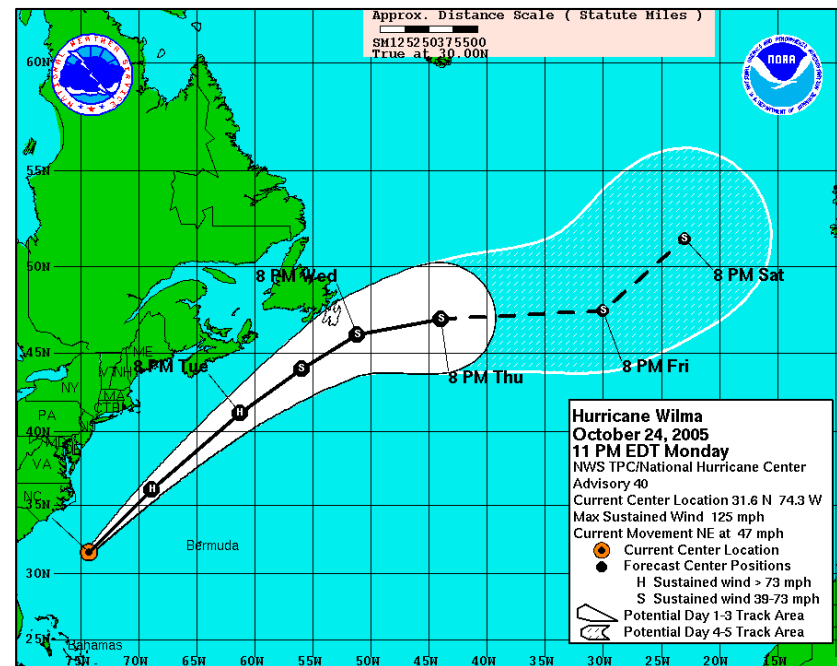
A disaster is closely related with the degree of damage and number of victims

Vulnerability

- The risk or potential risk to suffer damage or injury.
- Product of engineering:
 - environmental destruction
 - type and construction materials
 - development planning

Risk reduction

- Risk analysis
 - Historical
 - Forecasts
 - Current infrastructure
 - Houses & Buildings
 - Roads & Bridges
 - Farms
- Risk mapping
 - Vulnerable vs safety areas
- Reduction measures



Forecasts

Risk reduction

- Risk analysis
 - Historical
 - Revision of previous events
 - Impacted areas
 - Damages
 - Cost of impact
 - Cost of recovery if done
 - Topography
 - Rivers
 - Overflows
 - Mountains
 - Land or mudslides
 - Plains
 - Floodable areas
 - Forecasts
 - Meteorological
 - Volcanic
 - Seismic (if any projection exists)



Risk analysis

Risk reduction

- Risk analysis
 - Current infrastructure
 - Houses & Buildings
 - Number of facilities
 - Type of construction
 - Materials
 - Roads & Bridges
 - Type of construction
 - Materials
 - Location
 - » Main roads
 - » Secondary roads
 - Farms
 - Infrastructure
 - Vulnerable Vs Safety areas



Risk analysis

Preparedness

- Measures to avoid loss of property and/or lives (preparedness plans)
 - Determination of safety zones
 - Preventative evacuation
 - ID of animals
 - Veterinary records up to date
 - First Aid kits
 - Gather of food & water for the first 3 days

Mitigation

- Measures to reduce the impact of disaster
 - Monitoring of events
 - Insurance of property
 - Reduction of herds during risky seasons
 - Reinforcement of structures (retrofitting)
 - Evacuation to safety zones before event strikes

Response

- Remote assessment
- Initial contacts with local authorities
- DANA
- Response operation
 - ICS
 - Goals definition
 - Allocation of teams
 - Delivery of operation



Response

- Follow up on operations
 - Daily briefings & de-briefings
 - Field supervision
 - Updated reports & accountability
 - Human Resources management
 - Teams formation
 - Teams rotation
 - Compassion fatigue management



Recovery

- Needs analysis
- Goals definition
- Resources allocation
 - Human
 - Technical
 - Financial
- Follow up on recovery
 - Recovery phase monitoring
 - Updated reports & accountability
 - Human Resources management



Recommendations

- Development of Risk Reduction strategies
- Development of Preparedness plans
 - Establishment of cooperation agreements
 - Government
 - Civil Defence Depts.
 - Civil Society
- Development of trained responders
 - Organization
 - Technical rescue

Questions?