



Disaster Management Systems in Republic of Mauritius

5-7May Gigiri, Nairobi

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Deputy Director

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Multi-Hazards

- **Cyclones**
- **Torrential Rains / Floods**
- **Tsunamis**
- **High Waves**
- **Water Spouts**
- **Tornadoes**
- **Droughts**
- **Landslides**

The Central Cyclone and Other Natural Disasters Committee of the Prime Minister's Office will coordinate activities of the National Tsunami Centre

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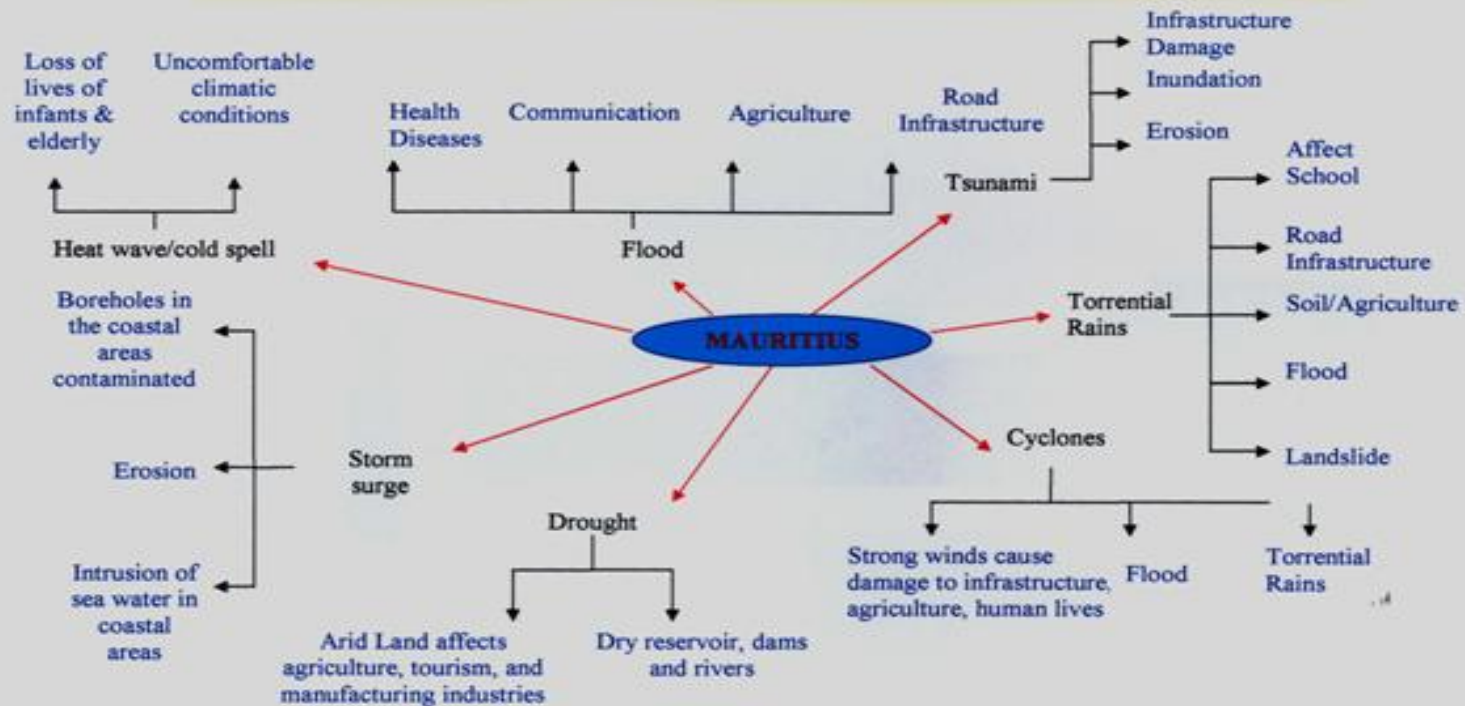
Alternate

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Natural Disasters affecting Mauritius



Early Warning of these events allow decision makers to take appropriate steps towards mitigation

A satellite image of a tropical cyclone, showing a distinct eye and spiral cloud bands. The image is overlaid with a grid of latitude and longitude lines. The title "Tropical Cyclone" is centered over the eye of the storm in a large, multi-colored serif font. The colors of the letters transition from purple on the left, through red, orange, yellow, green, and blue to purple on the right. The background shows the swirling cloud patterns in shades of white, grey, and blue.






Tropical Cyclone

Tromelin

Mauritius


Reunion

THE CYCLONE WARNING SYSTEM

	CLASS I	is issued 36 - 48 hours before Mauritius or Rodrigues is likely to be affected by gusts reaching 120 km/h.
	CLASS II	is issued so as to allow, as far as practicable, 12 hours of daylight before the occurrence of gusts of 120 km/h.
	CLASS III	is issued to allow, as far as practicable, 6 hours of daylight before the advent of 120 km/h gusts.
	CLASS IV	is issued when gusts of 120 km/h have been recorded in some places and are expected to continue.
	TERMINATION	There is no longer any risk of gusts exceeding 120 km/h.

DURING A CYCLONE WARNING CLASS I

- Make sure your emergency kit is ready.
- Monitor cyclone bulletins on Radio/ TV.
- Prepare to secure windows and doors with shutters or shields.

DURING A CYCLONE WARNING CLASS II

- Verify that your emergency kit contains all essential items.
- Store sufficient amount of drinking water.
- Continue to monitor cyclone bulletins on Radio/ TV.

UPON THE ISSUE OF A CYCLONE WARNING CLASS III

- Complete all preparatory measures.
 1. Fix shutters.
 2. Secure doors and windows.
 3. Store loose articles.
- Avoid areas prone to storm surges and flooding.
- Shelter domestic animals.
- Secure vehicles.
- Those in insecure dwellings, move, as early as possible, to a cyclone refugee centre with your emergency kit.
- Avoid going outside.
- Monitor closely cyclone bulletins on radio/ TV.

DURING A CYCLONE WARNING CLASS IV

GUSTS OF 120 KM/H OR MORE ARE OCCURRING

- Stay inside. Seek shelter in the safest part of the house.
- Disconnect all electrical appliances.
- Listen attentively to cyclone bulletins and advice on the Radio/ TV.
- If the house starts to suffer important damages, protect yourself with mattress, rugs or blankets.

PASSAGE OF THE 'EYE' OF A CYCLONE

- Beware of the passage of the 'EYE'. Do not assume that cyclonic conditions are over. The calm period is always followed by violent winds from the opposite direction.

AFTER THE CYCLONE

- Do not leave shelter until the all-clear signals have been given by relevant Authorities.
- Beware of fallen power lines, damaged buildings and trees and flooded water courses.
- Do not consume fallen fruits.
- Boil water for drinking purposes.
- Clean yard and drain out stagnant water to prevent proliferation of mosquitoes/diseases.



Torrential Rain

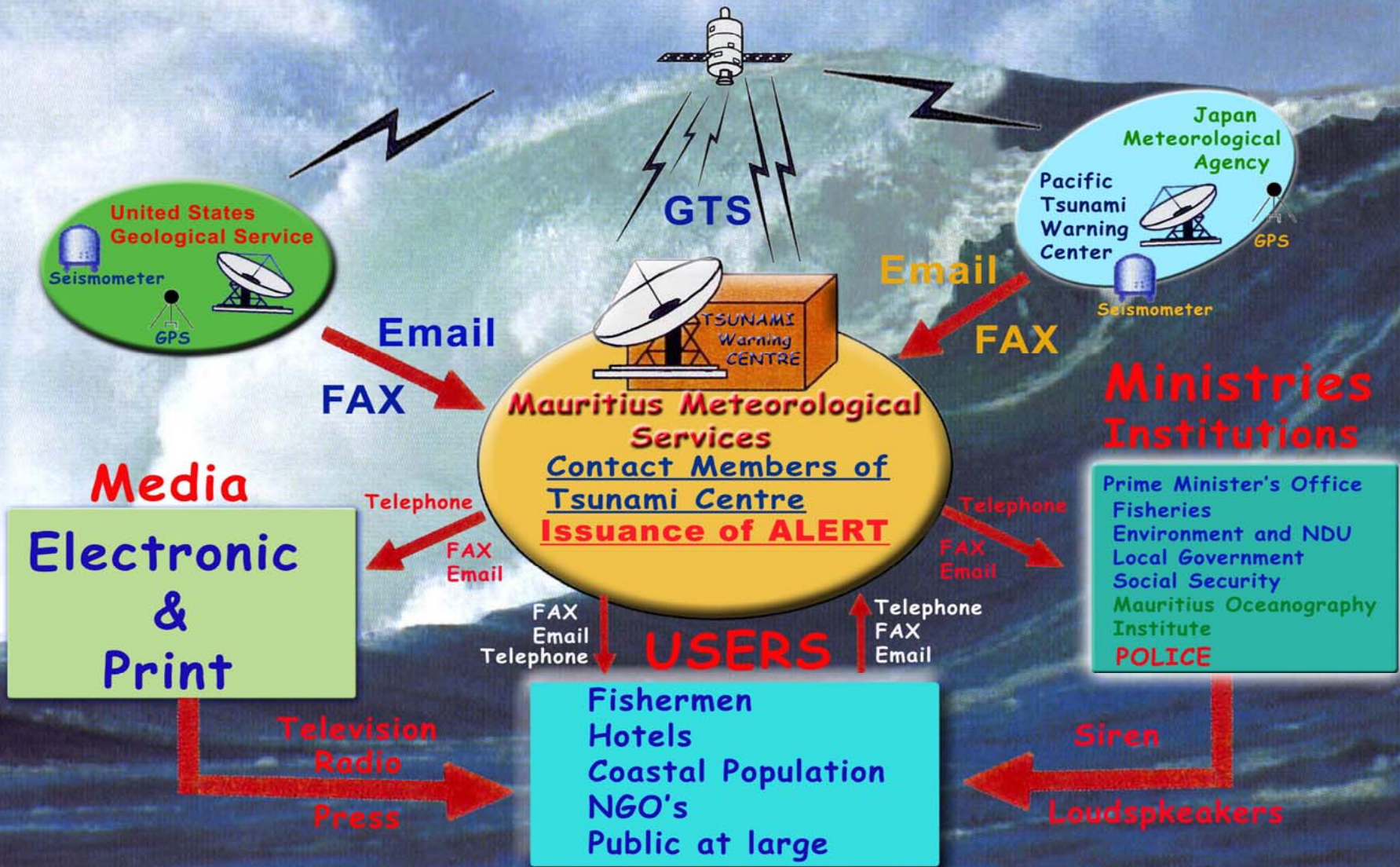
Torrential Rain Warnings

The Mauritius Meteorological Services (MMS) is in a position to forecast torrential rain well in advance to cater for precautionary measures. Whenever climatic conditions over Mauritius or Rodrigues have produced 100mm of widespread rain in less than 12 hours and is likely to persist for several hours the MMS will issue warnings at regular intervals. If such a condition prevails at the beginning of a school day, schools will remain closed. However if it is observed during school hours, the public will be informed accordingly and classes will be dismissed.

A dramatic photograph of a massive tsunami wave crashing over a rocky coastline. The water is a deep, turbulent blue-grey, with white foam and spray from the breaking crest. The sky is a pale, hazy blue. The overall scene conveys the immense power and scale of the event.

Tsunami

THE TSUNAMI WARNING SYSTEM





Landslide

THE LANDSLIDE WARNING SYSTEM

The warning/ evacuation system shall consist of five stages as follows:

Stage 1 - Preparatory Stage

Is reached when rainfall of 30 mm or more in 24 hours is recorded and ground displacement is equal to or is more than 2 mm in 24 hours.

Coordinating Committee

- Prime Minister's Office
- Ministry of Local Government
- Ministry of Public Infrastructure, Land Transport & Shipping
- Ministry of Health & Quality of Life

Coordinating Committee (cont)

- Ministry of Social Security, National Solidarity and Senior Citizens Welfare & Reform Institutions
- Ministry of Education & Human Resources
- Police Department
- Ministry of Public Utilities
- Meteorological Services
- Government Fire Services
- Central Water Authority
- Central Electricity Board
- Local Authorities and
- University

THE LANDSLIDE WARNING SYSTEM

Stage 2 - Warning Stage

Warning will be triggered on a ground displacement of 1 cm in 24 hrs being recorded.

Crisis Committee

- Prime Minister's Office
- Ministry of Local Government
- MPI
- Police Department
- The Meteorological Services
- Local Authorities
- Ministry of Public Utilities

THE LANDSLIDE WARNING SYSTEM

Stage 3 – Evacuation Stage

Is reached when ground displacement is equal to or greater than 2mm in an hour and rainfall will continue.

Stage 4 – Emergency Stage

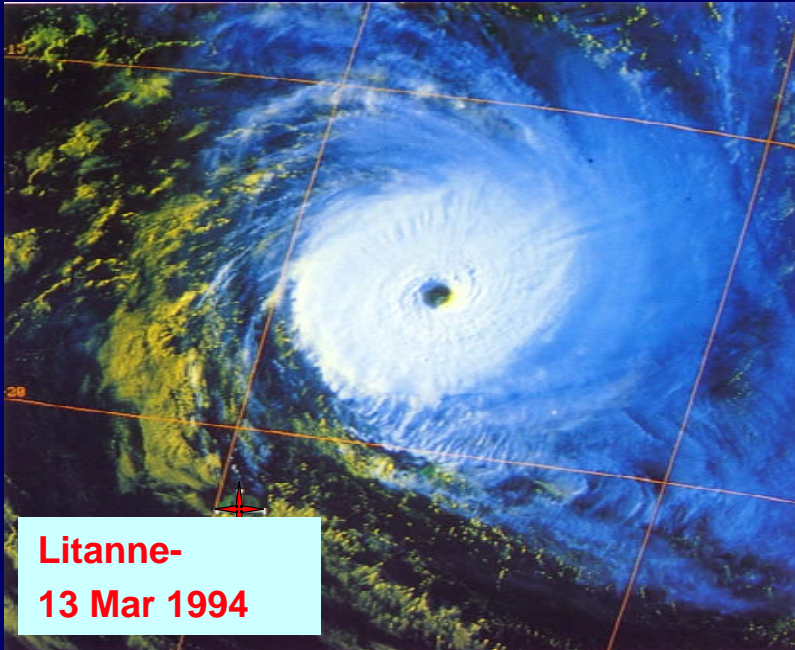
When there is sudden landslide and the Crisis Committee cannot for practical reasons be convened, the Emergency Warning is issued by the Police department after consultation with the Chairman of the Crisis Committee, if possible. Action will be triggered off as provided for under Stage

Stage 5 - Termination

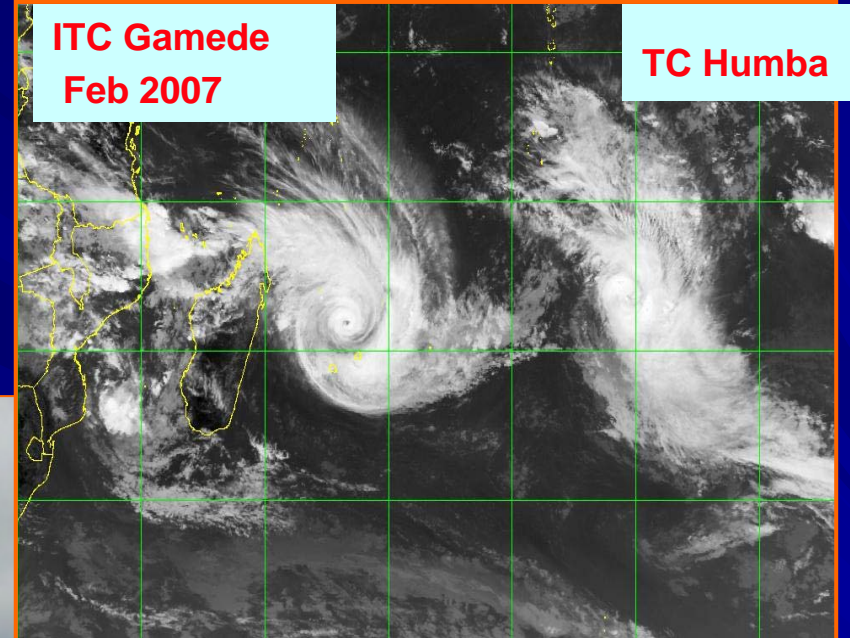
A close monitoring and stocktaking exercise will be undertaken. After stabilisation of ground movement has been noted, the all-clear signal will be given after a meeting of the Crisis Committee.



Some Snap Shots



Litanne-
13 Mar 1994



ITC Gamede
Feb 2007

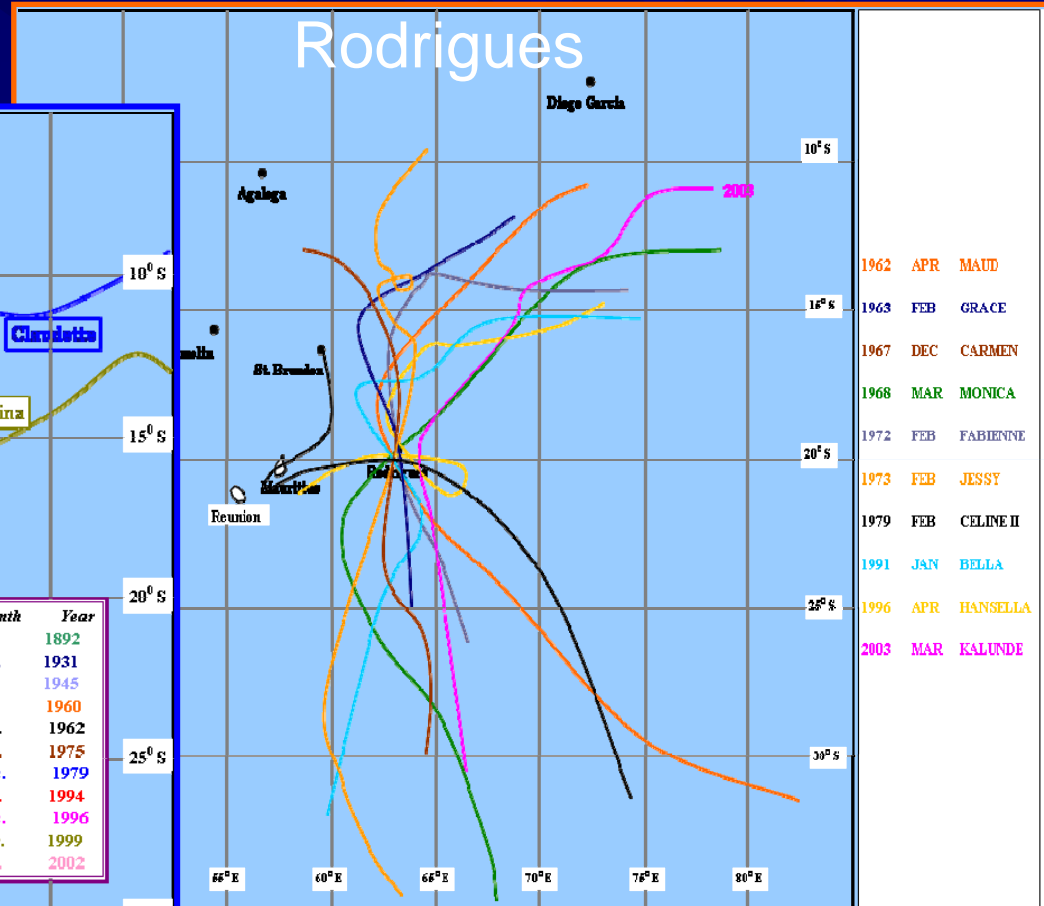
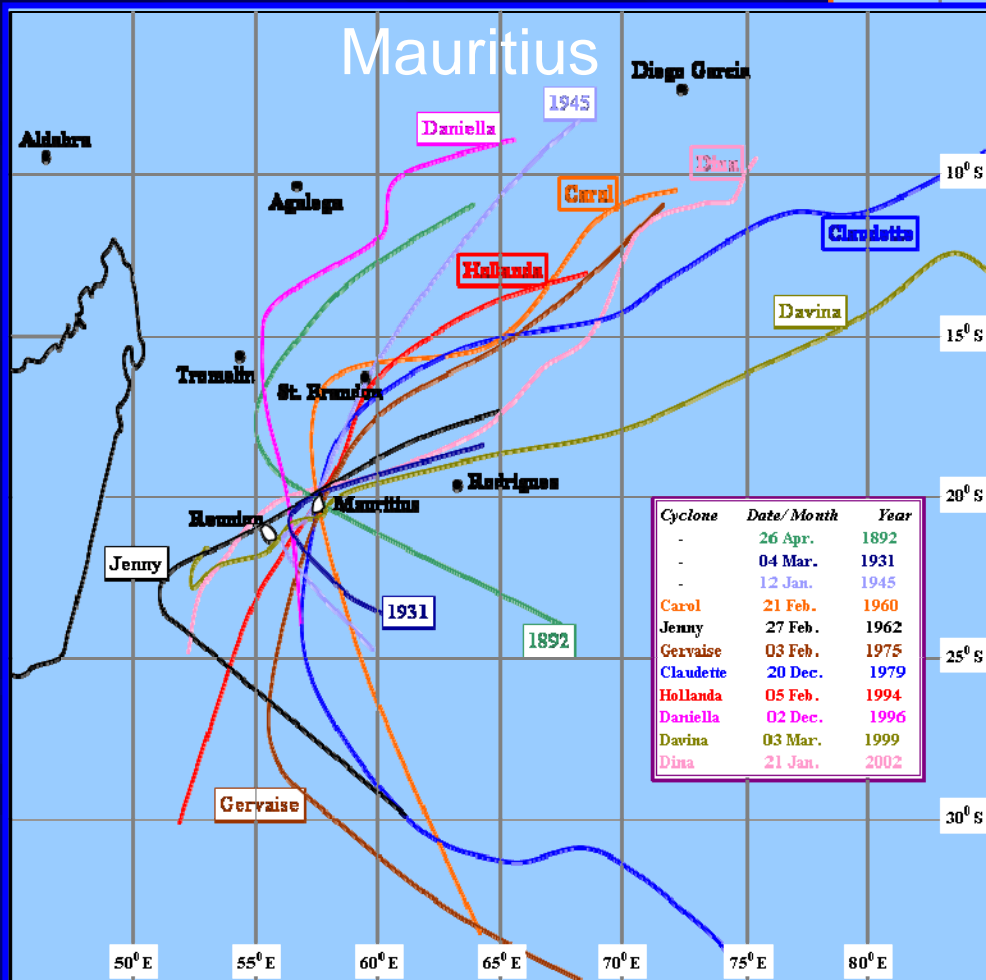
TC Humba



Tornado observed
from Vacoas Met
Station



Direct Hit Cyclones Tract





Damage Associated with Cyclones





Torrential Rain

Field Inundation



Damages to Public Infrastructure





Storm Surge

High Waves breaking along the coast at Macondé





Swell Waves

Picnickers venturing at waves of the order of 2.5 metres inside the lagoon at Flic-en-Flac public beach





Drought of the Century



Drought Effect On Sugar Cane, Year 1998-99





SHIP WRECK AT ST BRANDON DURING TROPICAL CYCLONE GAMEDE



Thank You