

Mauritius Meteorological Services

Early Warning Systems in the
Republic of Mauritius

Daily Regular Bulletin

- General Situation – system(s) influencing the local weather
- Expected weather
- Wind
- Sea state
- Temperature
- Tides

State of the sea / État de la Mer

Condition (English)	État (French)	Height/ Hauteur (metres)
Calm	Calme	0 – 0.5
Slight	Peu Agitée	0.5 – 1.25
Moderate	Agitée	1.25 - 2.5
Rough	Forte	2.5 - 4.0
Very Rough	Tres Forte	4.0 – 6.0
High	Grosse	6.0 – 9.0
Very High	Tres Grosse	9.0 – 14.0
Phenomenal	Enorme	14 +

Early warnings

- Tropical Cyclones
- Torrential Rain
- High Waves, tidal surge
- Tsunamis
- *Strong Winds, Cold Surge, Electric storm*

Tropical Cyclone

- **Class I** : issued **36-48 hours** before Mru/Rod is likely to be affected by gusts reaching **120 km/h**
- **Class II** : issued as far as practicable given **12 hours of daylight** before occurrence of gusts of **120 km/h**
- **Class III** : issued as far as practicable with **6 hours of daylight** before advent of gusts of **120 km/h**
- **Class IV** : issued when gusts of **120 km/h** have been recorded in some places and are expected to continue
- **Termination**: no longer any risks of gusts exceeding **120 km/h**

Tropical Cyclone Bulletin

- **Serial No. and time of issue**
- **Class of Warning**
- **Name and Intensity of system**
- **Position (Latitude, longitude, distance from islands)**
- **Movement (Direction & speed in Km/h)**
- **Expected change in conditions(wind, rain, sea, etc)**
- **Advise on Precautions**
- **Time of Next Bulletin**

Frequency & Dissemination of Bulletins

- Class I & Class II : at 6 hour intervals
- Class III : Every 3 Hours
- Class IV : Adhoc basis

High Waves/Swells

- High energy waves usually generated far away in the ocean
- Affects activity at sea
- Can occur at any time of the year but more frequent in winter
- Affects the lagoons and the coasts
- Can cause raz-de-marée

High Waves

- Synoptic Pattern, Weather systems, Products from Numerical Models , etc
- Special Communique issued as early as possible before likelihood of occurrence
- Targets general public, fishermen and sea goers in particular
- Average height of waves & Expected time of occurrence and duration
- Regions likely to be affected
- Precautions
- Monitor progress of waves (wave rider, observations from ships & other stations

Tsunami

- Messages from PWTC, JMA and RTSP (India, Indonesia, Australia)
- Tsunami Information Bulletin – earthquake occurred but no tsunami
- **Local** Tsunami Watch Bulletin – earthquake giving rise to local tsunami
- **Regional** Tsunami Watch Bulletin – earthquake giving rise to regional tsunami
- **Indian Ocean Wide** Tsunami – strong earthquake giving rise to ocean-wide tsunami which is moving towards the Southwest Indian Ocean

Tsunami

- Tsunami **Information** - informs about occurrence of an earthquake and advise on potential threat to generate a tsunami
- Tsunami **Watch** Bulletin – tsunami alert **without confirmation** of a destructive tsunami
- Tsunami **Warning** Bulletin – imminent threat of a tsunami, 5-7 hours lead time, depending upon location
- Termination – significant tsunami waves no longer being observed.

Dissemination of Bulletin/Information

- Prime Minister
- DPM, VPM's
- Secretary to Cabinet
- Ministries, Police, SMF, NCG, To all stakeholders as listed in the CONDS
- Media (Electronic & Press)
- Website
- Live intervention on radios/TV

THANK YOU