



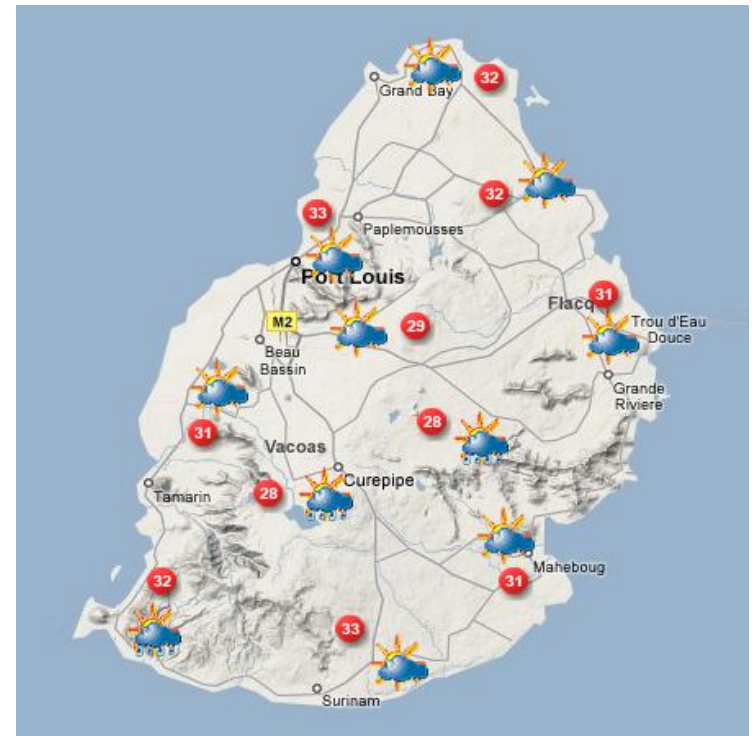
Mauritius Meteorological Services

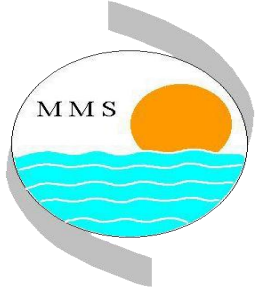
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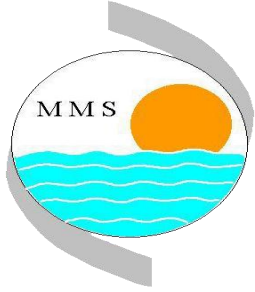




Mauritius Meteorological Services

Outline

- Introduction
- Services provided by MMS
- Conclusion



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OUR STATUS

- **Weather Observations began in 1774**
- **In 1831: First public Observatory**
- **In 1874: Royal Alfred Observatory**
- **As from 1950s: mainly Meteo observations**
- **Our status today**
 - **2 synoptic stations (Mauritius)- 4 in outer island**
 - **218 rainfall stations**
 - **21 AWS & Over 20 stations for temperature, wind, humidity, evaporation, sunshine, solar radiation, etc**
 - **Tide gauge, wave riders and now seismometer installed at Vacoas and Rodrigues.**

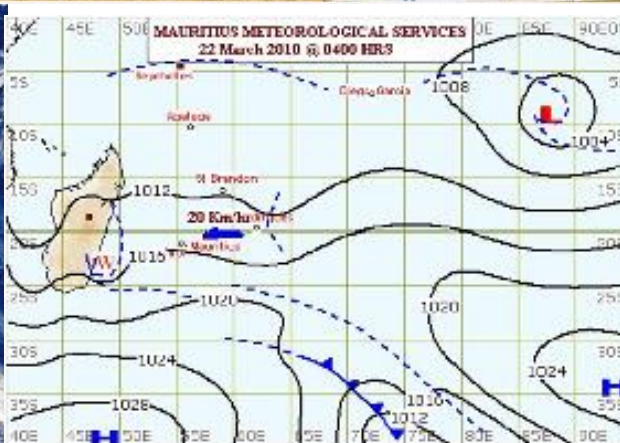
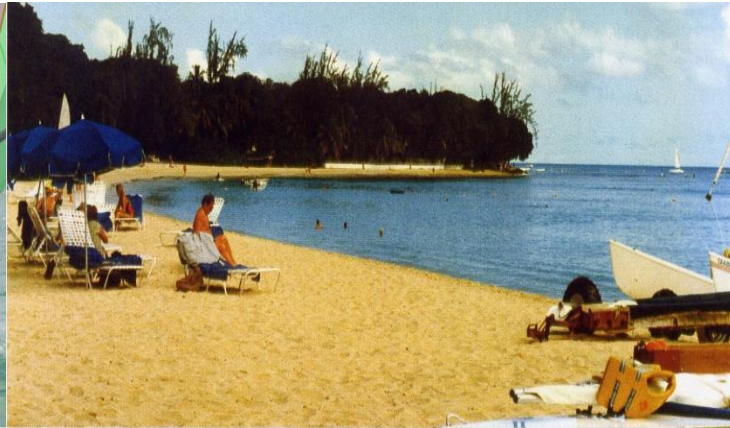


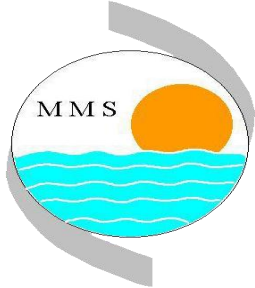


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Services provided by MMS

- Provision of Weather forecast
 - For the general planning of all mundane activities





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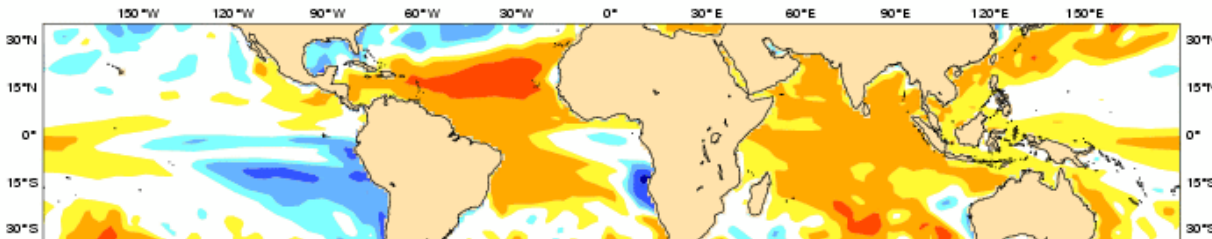
Services provided by MMS

➤ Provision of Seasonal Forecast: Summer & Winter Forecast

ECMWF Seasonal Forecast
 Mean forecast SST anomaly
 Forecast start reference is 01/03/10
 Ensemble size = 41, climate size = 275

System 3
 AMJ 2010
 No significance test applied

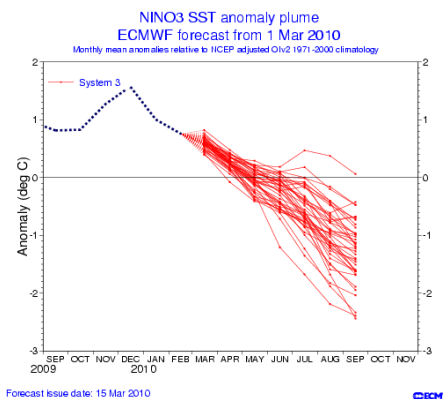
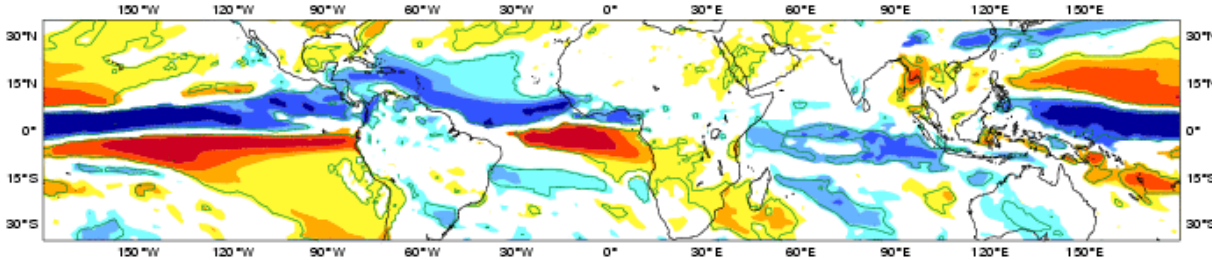
■ <-2.0°C
 ■ -2.0..-1.0
 ■ -1.0..-0.5
 ■ -0.5..-0.2
 ■ -0.2..0.2
 ■ 0.2..0.5
 ■ 0.5..1.0
 ■ 1.0..2.0
 ■ > 2.0°C



ECMWF Seasonal Forecast
 Mean precipitation anomaly
 Forecast start reference is 01/03/10
 Ensemble size = 41, climate size = 275

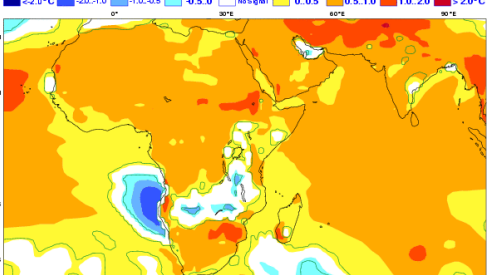
System 3
 AMJ 2010
 Shaded areas significant at 10% level
 Solid contour at 1% level

■ <-200mm
 ■ -200..-100
 ■ -100..-50
 ■ -50..0
 ■ No Signal
 ■ 0..50
 ■ 50..100
 ■ 100..200
 ■ > 200mm

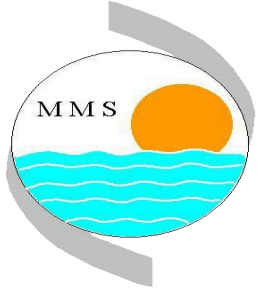


Forecast issue date: 15 Mar 2010

ECMWF Seasonal Forecast
 Mean 2m temperature anomaly
 Forecast start reference is 01/03/10
 Ensemble size = 41, climate size = 275



Forecast issue date: 15/03/2010

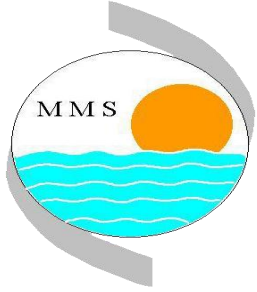


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Applying Climate Information for Sustainable Development

- ✓ **Water Resources:** Continued monitoring of rainfall network stations and provide monthly and seasonal rainfall forecast for a better water resources management as to ensure sustainable socio-economic development.
- ✓ **Agriculture and Food Security:** Continued provision of weather and climate information to the farming community for a sustainable and economically viable agriculture





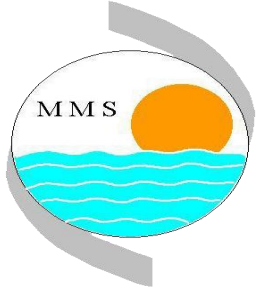
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Climate Information for renewable energy

➤ Renewable energy

- ✓ Solar energy: 21 stations & 2 stations measuring global solar radiation
- ✓ Wind energy: nine dynes anemometer & 21 AWS



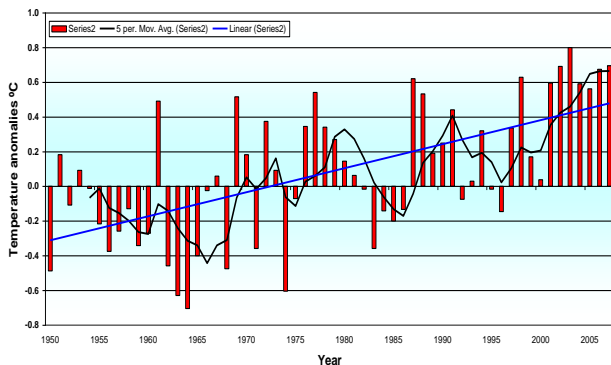


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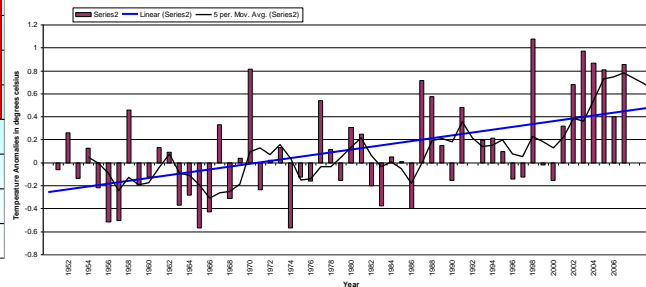
Applying Climate Information for Sustainable Development

- ✓ In May 1990, MMS took the initiative to create the National Climate Committee. In 2010 Climate Change Division established at the Ministry of Environment in which the Meteorological Services contribute actively.
- ✓ Climate assessment and climate change detection (CC studies and national reports)

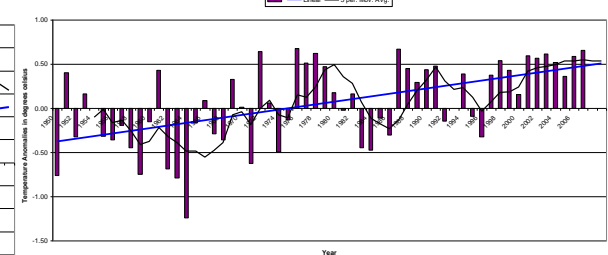
Temperature variation at Vacoas (1950 - 2007)

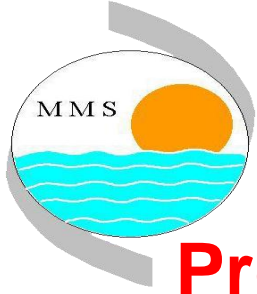


Summer Temperature Variation at Vacoas, 1951-2007



Winter Temperature Variation at Vacoas, 1950-2007





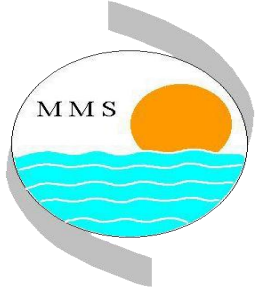
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Providing for the safety of Life and Property

Warnings as listed in the Cyclone and Other Natural Disasters Scheme:

- Cyclone Warning (4 tiers warning system)
- Torrential Rain warning (>100 mm in 12 hours)
- Tsunami warning (based on advisories from RTSPs)
- High waves
- Landslide warning (contribute)

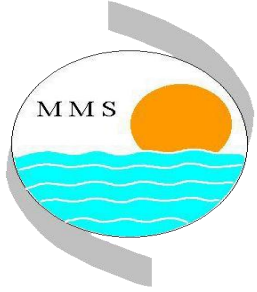




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Warnings for Natural Disasters

- **Crisis committee after each and every warning spearheaded by the Prime Ministers Office (PMO-DMC).**
- **Each and every warning system has different Ministries involved.**
- **Each Ministries have their own respective roles as defined in the scheme and act as per their SOPs.**

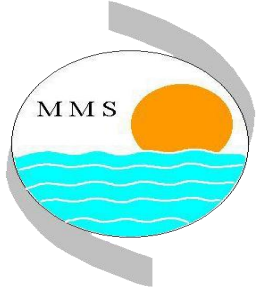


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Other Severe Weather

Other severe weather warnings

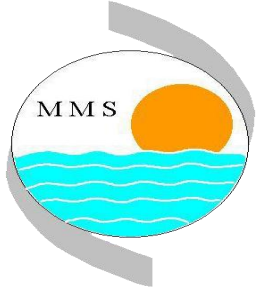
- Heavy rain
- Strong wind
- Heat or Cold waves
- Information about earthquakes



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Preparation of Warning

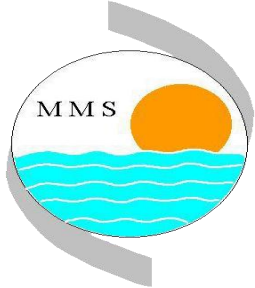
- Warning is prepared at the meteorological services.
- No members of Disaster Management Centre involved at this stage.
- PMO informed about imminent warning to be issued (not often).
- Major stakeholders informed about warning just after issuance through simultaneous broadcast: PMO, Police Information Room, Media, Public.



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Dissemination of Forecast and Warnings

- Telephone/Fax
- Internet: website and email
- Radio and TV presentations
- Live Intervention by duty meteorologist daily on radio.
- Mobile-SMS



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CONCLUSIONS

➤ Vision

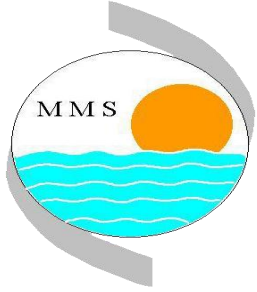
To be a proactive, highly efficient and effective institution

➤ Mission

To provide accurate and timely weather information and meteorological products and information related to natural disasters for the general welfare of the citizens of the Republic

➤ Quality Objective

Our objective is to attain excellence in the delivery of effective and quality service, on time and in an equitable manner so as to optimize customer satisfaction



Mauritius Meteorological Services

*Thank you
for your
Attention*