

- Digital Current Weather Instrument System, Metar Display System and Drishti Transmissometer for RVR determination were established at AMO Thiruvananthapuram.
- IMD Thiruvananthapuram became a part of the System of Aerosol Monitoring And Research (SAMAR)

 a system of 3 Aerosol and black carbon monitoring equipments namely, Sky radiometer, Nephelometer
 & Aethalometer.





Aethelometer

Nephelometer





Digital Sunshine recorder GNSS equipment

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- MC Thiruvananthapuram has become a part of the Integrated Network of Global Navigation Satellite System (GNSS), for continuous recording of integrated precipitable water vapour (IPWV) measurements and for seismic studies. This equipment has got advanced meteorological sensors to measure temperature, pressure, humidity and also capable of working independently in all weather condition with high temporal resolution.
- Continuous monitoring of solar & terrestrial radiation by radiation equipments and sunshine recorder (both conventional and electronic) form some of the routine activities of this office.
- Utilising the data from the S Band Doppler Weather Radar (DWR) under IMD installed at Kochi, more accurate and precise weather warnings are generated and issued.

Weather details / updates are available through:

https://mausam.imd.gov.in/ Thiruvananthapuram/ www.imdtvm.gov.in

Contact us Email: mc.trv@imd.gov.in Ph: 0471-2322894 / 2322330 / 2330025, Fax: 2332330

Address : Meteorological Centre, Vikas Bhavan PO, Thiruvananthapuram-33

Twitter:
@imd_trivandrum



Facebook:
@imd.trivandrum
IVRS 1800220161

Mobile Apps:

- "MAUSAM App" for location specific forecast and warning
- " Meghdoot App" for Agromet advisory
- Megndoot App for Agromet adviso
 "Damini App" for Lightning warning.



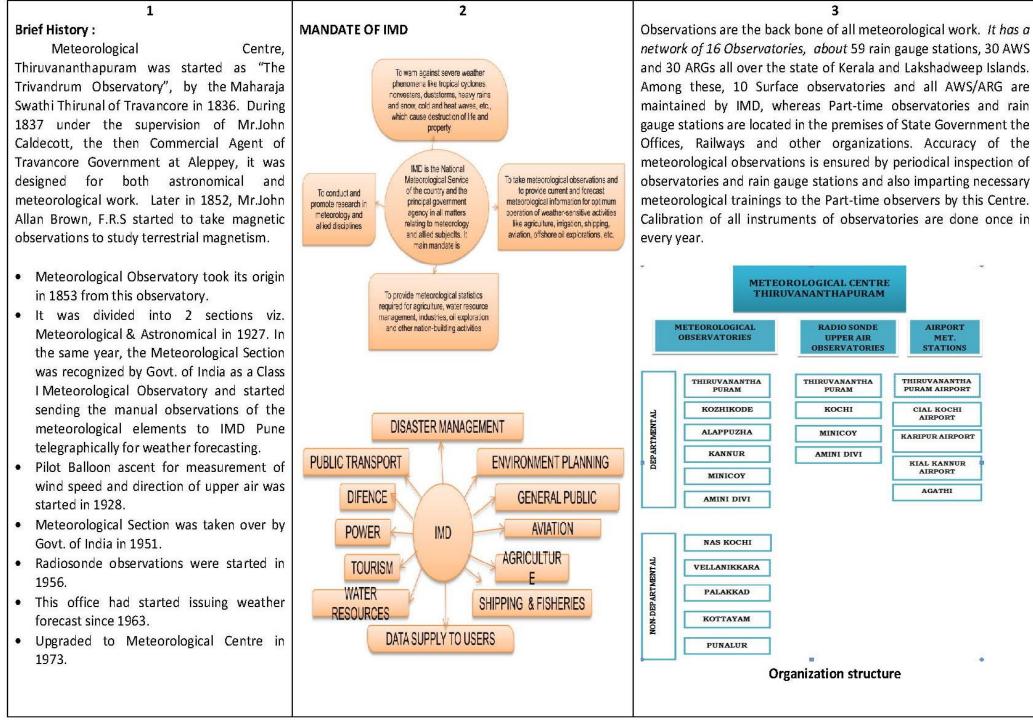
GOVERNMENT OF INDIA INDIA METEOROLOGICAL DEPARTMENT (Ministry of Earth Sciences) METEOROLOGICAL CENTRE

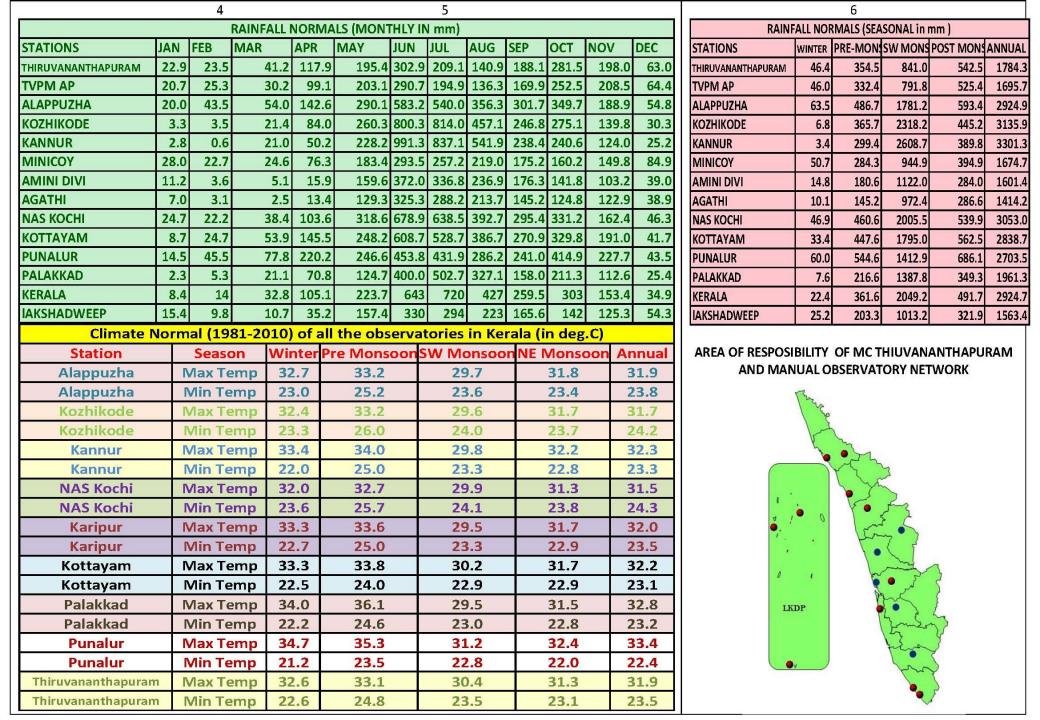
Thiruvananthapuram

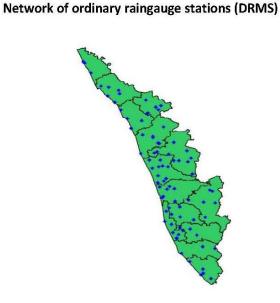
HISTORY OF METEOROLOGY IN KERALA

India is fortunate to have some of the oldest meteorological observatories of the world. The British East India Company established several such stations, for example, those at Calcutta in 1785 and Madras (now Chennai) in 1796 for studying the weather and climate of India. The Asiatic Society of Bengal founded in 1784 at Calcutta (now Kolkatta) , and in 1804 at Bombay (now Mumbai), promoted the scientific studies in meteorology in India.

The Observatory at Thiruvananthapuram has a long history, dating back to 1836 and is one of the oldest observatories of the country. Meteorological Centre, Thiruvananthapuram caters to the meteorological requirements of Kerala & Lakshadweep by supervising and co-ordinating the weather services in the state.







Network of AUTOMATIC WEATHER STATIONS / **Automatic Raingauge Stations**



Activities and Services

- Upper air observations of temperature, wind, humidity and pressure using hydrogen filled balloon bound GPS based radiosonde with meteorological sensors are made from Radio Sonde Radio Wind (RS/RW) unit twice a day at 00 & 12 UTC. 8 synoptic surface observations at 3 hourly interval starting from 00 UTC are also taken daily by this office.
- Continuous recording of various weather parameters are done, through different self-recording surface meteorological instruments. • The observational data of the other stations in the state
- is collected and transmitted along with the observations taken at this office immediately after each synoptic hour, to HQ at New Delhi through different modes of communication. · HQ re-transmits the data pertaining to India and
- surface and upper air observations to all the Forecasting offices. • The challenging task of weather forecasting and issue
- of severe weather warnings for Kerala are done effectively by analyzing these weather charts, satellite imageries, Doppler weather radar outputs and different forecast model output disseminated from H.Q and taking into consideration of the climatology and orography of the region.



Stevenson screen for keeping meteorological instruments



Radiosonde instrument

- Early warning of disastrous weather events saves precious lives and property. Weather Forecast, cyclone warning, Wind warning for fishermen, heavy rainfall warning, port warnings and highway forecast are broadcasted though AIR, Doordarshan, other print and electronic media in addition to the website of IMD Thiruvananthapuram.

• Agromet Advisory Services (AAS) for farmers in

collaboration with the Ministry of Agriculture / Agricultural

- Departmentt at 5 agroclimatic zones (cluster of 3-4 districts) have been successfully extended to the district level and operated across 14 districts of the state. Currently, over 5 lakhs farmers are receiving crop specific agro-meteorological advisories along with five day district level quantitative forecast for 7 weather parameters, viz, rainfall, maximum temperature, minimum temperature, wind speed, wind direction, relative humidity and cloudiness on Tuesdays & Fridays in Malayalam and
- neighbouring countries and also the plotted charts of • Weather data compilation for climatological purpose is done for archival and for answering various weather related enquiries from different users for research and planning purposes. For the efficient management of drought, flood and disaster mitigation planning, accurate knowledge of rainfall distribution in space and time is required. Necessary meteorological and climatological

English languages, as SMS and through the website.

- services are rendered to accomplish this. • Interactive Voice Response System with toll free number 1800220161 and website www.imdtvm.gov.in www.mausam.imd.gov.in/Thiruvananthapuram/ are
 - maintained by this office for the service of general public. • Continuous monitoring of earthquake is done by state-ofthe-art instruments installed at this station, making it a part of Real Time Seismological Monitoring Network (RTSMN) for tsunami warning.
 - · Maintenance and repair of all meteorological instruments of observatories, automatic weather stations (transmission of hourly data to HQ is effected automatically through GPRS modem and airport meteorological equipments are also done by this office.