



No. F.O-Obs-1(1)/2016/

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Press Releases

Issue Date: 21 March, 2022 10:00 PST

CELEBRATION OF WORLD METEOROLOGICAL DAY 2022

World Meteorological Day is observed every year on March 23 to highlight the importance of the role that people and their behaviour play in protecting Earth's atmosphere. The day also commemorates the establishment of the World Meteorological Organization (WMO), which is an intergovernmental body, on March 23, 1950. According to WMO's website, the day "showcases the essential contribution of National Meteorological and Hydrological Services to the safety and wellbeing of society."

WORLD METEOROLOGICAL DAY HISTORY

The day is celebrated to mark the establishment of WMO, which has 193 member countries and territories. The organisation originated from the International Meteorological Organization (IMO), the idea of which is rooted in the Vienna International Meteorological Congress 1873. WMO was then established by the ratification of the WMO convention in 1950 after which the organisation became a specialised agency of the United Nations (UN) in 1951. The headquarters of WMO are located in Geneva, Switzerland.

WORLD METEOROLOGICAL DAY 2022 THEME

World Meteorological Day 23 March 2022 therefore has the theme ***Early Warning and Early Action***, and spotlights the vital importance of Hydrometeorological and Climate Information for Disaster Risk Reduction. The theme has been chosen to reflect the organisation's focus on weather, climate and water extremes are becoming more frequent and intense in many parts of the world as a result of climate change. More of us are exposed than ever before to multiple related hazards, which are themselves evolving as a result of population growth, urbanization and environmental degradation.

Forecasts of what the weather will be are no longer enough. Impact-based forecasts that inform the public of what the weather will DO are vital to save lives and livelihoods. Yet one in three people are still not adequately covered by early warning systems.

Greater coordination between national meteorological and hydrological services, disaster management authorities and development agencies is fundamental to better prevention, preparedness and response.

Being prepared and able to act at the right time, in the right place, can save many lives and protect the livelihoods of communities everywhere, both now and in the future.

ROLE OF PAKISTAN METEOROLOGICAL DEPARTMENT

Pakistan Meteorological Department (PMD) is responsible for providing meteorological service throughout Pakistan to wide variety of interest and for numerous public activities and project which require climatic information.

Apart from Meteorology, the department is also extending services in the fields of Hydrology, Earthquake Seismology and Geomagnetism. PMD operates under World Meteorological Organization (WMO) umbrella as 198 member states of the world and act as National Meteorological and Hydrological Service of Pakistan.

The major achievements of the Department are introduction of modern flood prediction system, computerized weather forecasting system, earthquake and nuclear explosion detection system, incorporating radar, satellite, information technology, flight safety, consultancy services in seismic design of dams, building and other development and disaster relief schemes.

The Department has also played vital role in research work and its scientific have made valuable contribution. More than 350 scientific papers have been written and published in both national and international scientific journals. Major emphasis in the research has been laid on the field of climate change, Glaciology, renewable energy, arid zone research, ozone measurement, drought monitoring, Climate Modeling, Monsoon onset, solar energy, wind power potential, satellite meteorological and allied fields.

Many of the Research Organizations such as Arid Zone Research Institute (AZRI), Space and Upper Atmospheric Corporation (SUPARCO), and Pakistan Atomic Energy Commission (PAEC) started their functioning with the initial assistance of the Pakistan Meteorological Department Meteorological services are extended on regular basis to Civil Aviation Authority (CAA), Federal Flood Commission (FFC), Pakistan Agriculture Research Council (PARC), National Disaster Management authority (NDMA), Climate change Division, Ministry of Religious Affairs and National food Security and so many other offices.

OBJECTIVES

Main Objective are to provide information on weather, climate and geophysical phenomenon with the aim of traffic safety in air, on land and sea, mitigation of disasters, agriculture development based on climatic potential of the country, climate change, impact assessment, future projection of climate and adaptation options in different sectors.

RESPONSIBILITIES

In pursuance of its objectives and responsibilities, the department is contributing in:

- Aviation meteorological services
- Hydro-meteorological services and flood forecasting
- Agro-meteorological services
- Climatological services
- Geophysical and seismological services
- Weather forecasting services to public through electronic & print new media
- Astronomical information services
- Met-forecast for mountaineering expedition
- Marin meteorological services
- Climatological data processing for scrutinizing, comparing and publishing
- Safety of civil, armed forces aviation operations, VVIP flights and marine activities
- Early warning of natural hazards such as tropical Cyclones, Heavy Rains, Heat waves, Floods & Earthquakes etc.
- Astronomical information like sighting of moon, solar and lunar eclipse.
- Glacier Monitoring and Research

- Glacial Lakes Outburst flood warning

Pakistan Meteorological Department will celebrate WMO day on the selected themes “*Early Warning and Early Action*” for upcoming 23rd March, 2022 as celebrate every year. On this day PMD Head quarter office will conduct an awareness and exhibition at Institute of meteorology & Geophysics Institute Karachi on the given theme.

Spokesperson