

# METEOROLOGY

# **METEOROLOGY**

**METEOROS(GREEK WORDS) –LOFTY OR HIGH (IN THE SKY) and LOGOS- STUDY**

- **MULTI AND INTERDISCIPLINARY BRANCH OF ATMOSPHERIC SCIENCE (ATMOSPHERIC CHEMISTRY, ATMOSPHERIC PHYSICS, CLIMATOLOGY etc. )**

**or**

- **THE STUDY OF THE WEATHER AND CLIMATE**

# WHAT IS METEOROLOGY ?

In simple terms the Meteorology is the study of the Earth's atmosphere (**Troposphere, Stratosphere, Mesosphere, Thermosphere, Exosphere**) and the variations in various meteorological variables like temperature, humidity, wind patterns etc. that produce different weather conditions.

# **METEOROLOGICAL VARIABLES**

- **TEMPERATURE**
- **PRECIPITATION**
  - **PRESSURE**
  - **HUMIDITY**
  - **CLOUDS**
  - **WINDS**

# ORGANISATIONS

- **INDIAN METEOROLOGICAL DEPARTMENT,**  
Ministry of Earth Sciences, Government of India
- **WORLD METEOROLOGICAL ORGANIZATION**

# CLIMATOLOGY

- Greek "place, zone"; and *-logia*
- scientific study of climate
- **Climate** is the average weather in a given place over a longer period of time.

# APPLICATIONS

- DEFENCE SERVICES
- ENERGY PRODUCTION (CONVENTIONAL AND NON CONVENTIONAL)
- TRANSPORTATION
- AGRICULTURE
- INFRASTRUCTURES DEVELOPMENT
- SUSTAINABLE DEVELOPMENT etc.