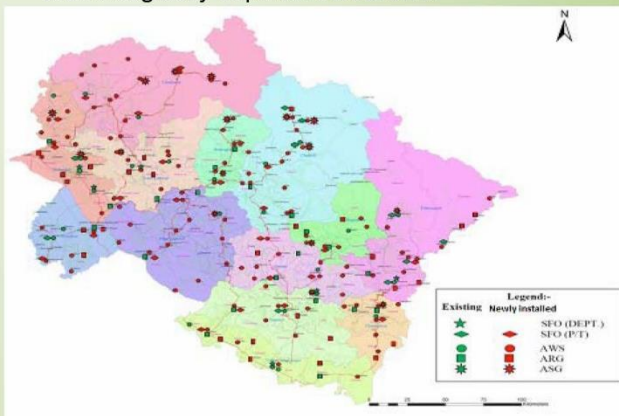
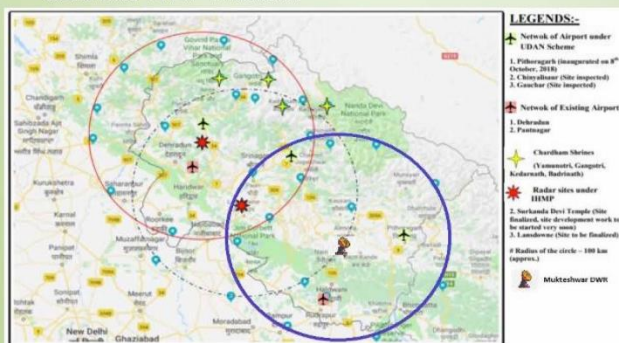


## Weather observation and monitoring

- ❖ Uttarakhand has 4 departmental and 3 part-time surface observatories, 1 PBO & RS/RW station, 25 AWSs, 21 ARGs and more than 70 DRMS stations.
- ❖ Besides that, the state government has installed 107 AWSs, 28 ARGs & 16 ASGs covering almost each block, tourist, pilgrim and historically & archeologically important locations.



- ❖ Installation of 3 X-band Doppler weather radars (DWR) has been proposed. Out of these 3 proposed DWRs one has been installed in Mukteshwar, Nainital.
- ❖ These DWRs will help in continuous weather monitoring, now-casting and assimilation of DWR data into NWP models.



## Organization structure



- ❖ Weather forecasting section, MC Dehradun
- ❖ Agromet advisory unit, MC Dehradun
- ❖ Technical/Inspection section, MC Dehradun
- ❖ SFO, PBO & RS/RW, MC Dehradun
- ❖ Climatology and data supply, MC Dehradun
- ❖ Seismo observatory, Dehradun
- ❖ Radar command & control center, MC Dehradun
- ❖ AMS, Jolly grant, Dehradun
- ❖ AMS, Pantnagar
- ❖ AMS, Pithoragarh
- ❖ MO, Mukteshwar
- ❖ MO, New Tehri
- ❖ Seismo observatory, Pithoragarh
- ❖ Seismo observatory, Lohaghat
- ❖ WFC, Pithoragarh
- ❖ DWR, Mukteshwar

## Contact us



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 Ministry of Earth Sciences  
 भारत मौसम विज्ञान विभाग  
 India Meteorological Department



मौसम विज्ञान केंद्र, देहरादून  
 Meteorological Centre, Dehradun



## History of MC, Dehradun

- ❖ The Meteorological Observatory at Dehradun was established on January 1<sup>st</sup>, 1967 in the Geodetic and Research branch campus of Survey of India.
- ❖ In the initial years Observatory worked under Meteorological Centre, Lucknow.
- ❖ In the year 2002, Meteorological Centre, Dehradun was established after the formation of Uttarakhand state in the year 2000.
- ❖ Since then it is continuously providing aviation, agro-meteorological, seismological and weather services to Uttarakhand state.



## Mandate of IMD

India Meteorological Department was established in 1875. It is the National Meteorological Service of the country and the principal government agency in all matters relating to meteorology and allied subjects.

- ❖ To take meteorological observations and to provide current and forecast meteorological information for optimum operation of weather-sensitive activities like agriculture, irrigation, shipping, aviation, offshore oil explorations, etc.
- ❖ To warn against severe weather phenomena like tropical cyclones, norwesters, duststorms, heavy rains and snow, cold and heat waves, etc., which cause destruction of life and property. To provide meteorological statistics required for agriculture, water resource management, industries, oil exploration and other nation-building activities.
- ❖ To conduct and promote research in meteorology and allied disciplines.

## Services rendered by MC, Dehradun

Weather forecast and monitoring services

Agro-meteorological services

Aviation services

Seismological services

Climatological services

Capacity building and outreach

Inspection & maintenance services

## Products generated by MC, Dehradun

District wise weather forecast for Uttarakhand

City forecast

Nowcast

Tourism/pilgrimage forecast

Forecast for Railway/Road transport

Impact based weather forecast & warning

Agro-advisory bulletin

Daily weather report

Special press release/Local forecast

Special weather forecasts

## Climate Normals of Stations in Uttarakhand

MONTH (SEASON)	DEHRADUN		
	Mean Temperature(oC)		MEAN TOTAL RAINFALL (mm)
	MIN	MAX	
Jan	6.2	19.8	41.5
Feb	8.4	22.1	58.2
(WINTER)	7.3	21.0	99.7
Mar	12.5	26.8	53.1
Apr	16.8	32.3	34.5
May	20.6	34.8	61.5
(PRE MONSOON)	16.6	31.3	149.1
Jun	22.7	34.2	231.7
Jul	23.1	30.7	642.5
Aug	22.6	30.0	686.4
Sep	20.8	29.9	298.3
(MONSOON)	22.3	31.2	1858.9
Oct	15.6	28.8	44.4
Nov	10.8	25.3	7.7
Dec	7.2	21.5	23.8
(POST MONSOON)	11.2	25.2	75.9
ANNUAL	15.6	28.0	2183.5

MONTH (SEASON)	MUKETSWHAR		
	Mean Temperature(oC)		MEAN TOTAL RAINFALL (mm)
	MIN	MAX	
Jan	1.7	12.3	46.7
Feb	2.3	13.4	65.2
(WINTER)	2.0	12.9	111.9
Mar	5.4	17.4	52.9
Apr	9.5	22.2	46.0
May	11.7	23.7	69.4
(PRE MONSOON)	8.9	21.1	168.3
Jun	13.4	23.6	140.2
Jul	13.8	21.5	277.1
Aug	13.6	20.8	277.7
Sep	12.2	20.7	236.9
(MONSOON)	13.3	21.7	931.9
Oct	9.1	19.8	39.5
Nov	5.6	17.0	10.9
Dec	3.3	14.2	22.0
(POST MONSOON)	6.0	17.0	72.4
ANNUAL	8.5	18.9	1284.4

MONTH (SEASON)	PANTNAGAR		
	Mean Temperature(oC)		MEAN TOTAL RAINFALL (mm)
	MIN	MAX	
Jan	5.4	20.3	23.1
Feb	7.4	23.8	34.1
(WINTER)	6.4	22.1	57.2
Mar	11.3	29.0	16.1
Apr	15.7	35.2	16.5
May	20.9	36.7	52.1
(PRE MONSOON)	16.0	33.6	84.7
Jun	24.0	36.0	160.5
Jul	24.9	33.2	402.8
Aug	24.6	32.7	417.3
Sep	22.8	32.3	280.8
(MONSOON)	24.1	33.6	1261.4
Oct	16.7	30.8	40.7
Nov	10.4	27.5	4.5
Dec	6.3	23.0	16.8
(POST MONSOON)	11.1	27.1	62.0
ANNUAL	15.9	30.0	1465.3