

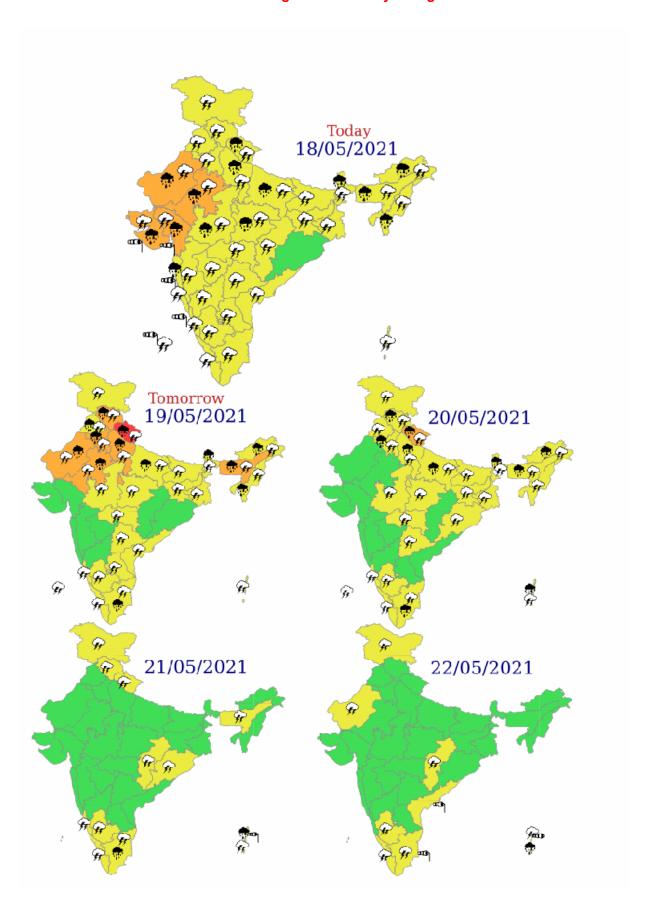
# Government of India Earth System Science Organization Ministry of Earth Sciences India Meteorological Department

Press Release Date: 18<sup>th</sup> May, 2021 Time of Issue: 1600 hrs IST

Subject: Wet spell over Western Himalayan Region & plains of Northwest India during 18 to 20 May, 2021

- O A Cyclonic Storm "Tauktae" (pronounced as Tau'Te) lay centred at 1430 hours IST of today, the 18<sup>th</sup> May, 2021 over Saurashtra & adjoining Gujarat region near latitude 22.5°N and longitude 71.8°E, about 190 km south-southwest of Deesa (Gujarat), and 105 km south-southwest of Ahmedabad and 35 km southwest of Surendranagar (Gujarat). It is very likely to move north-northeastwards and weaken gradually into a Deep Depression during next 03 hours and into a Depression during the subsequent 06 hours. The remnant of the system is very likely to move northeastwards across Rajasthan to west Uttar Pradesh during 19<sup>th</sup> & 20<sup>th</sup> May, 2021.
- A Western Disturbance as a trough in middle & upper tropospheric westerlies runs along longitude 65°E to the north of latitude 26°N.
- The Cyclonic Storm "Tauktae" (pronounced as Tau'Te) & its remnant would interact with the above Western Disturbance. As a result, light/moderate scattered to fairly widespread rainfall/ thundershower is very likely over northwest & central India on 18<sup>th</sup> with possibility of heavy to very heavy rainfall at isolated places over south Rajasthan and heavy rainfall at isolated places over Uttarakhand, Uttar Pradesh and Madhya Pradesh.
- The interaction zone of remnant Low/ Cyclonic Circulation with westerly trough associated with Western Disturbance is very likely to occur over Haryana & adjoining Himalayan region on 19<sup>th</sup> May. In addition, high moisture feeding from Arabian Sea is also likely over northwest India. As a result, fairly widespread to widespread rainfall activity likely over northwest India (except Jammu & Kashmir) with heavy to very heavy rainfall with extremely heavy falls at isolated places over Uttarakhand; heavy to very heavy rainfall at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, West Uttar Pradesh; and heavy rainfall at isolated places over Punjab, East Uttar Pradesh and north Rajasthan on 19 May, 2021.
- Rainfall activity is very likely to decrease from 20 May with scattered to fairly widespread rainfall over Haryana, Chandigarh & Delhi, Uttar Pradesh, Himachal Pradesh and Uttarakhand with possibility of heavy to very heavy rainfall at isolated places over Uttarakhand and heavy rainfall at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Uttar Pradesh on 20<sup>th</sup> May. Rainfall activity is very likely to decrease significantly over the region from 21<sup>st</sup> May, 2021.
- Multi-Hazard warnings for next 5 days are given in following page:

# Multi-Hazard warnings for next 5 days are given below:



## Impact based warning & Action suggested for areas likely to be affected

♦ Heavy to Very heavy falls at isolated places with extremely heavy falls at isolated places over Uttarakhand on 19<sup>th</sup> Heavy to Very heavy falls at isolated places on 20<sup>th</sup>. Heavy to Very heavy falls at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi and West Uttar Pradesh on 19<sup>th</sup> May, 2021.

## A. Impact Expected

- ➤ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- > Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Mudslides(for plain areas) and Landslides (for hill and vulnerable areas)
- ➤ Damage to horticulture and standing crops in some areas due to inundation.
- > It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### **B.** Action Suggested

- > Check for traffic congestion on your route before leaving for your destination.
- > Follow any traffic advisories that are issued in this regard.
- > Avoid going to areas that face the water logging problems often.
- > Avoid staying in vulnerable structure.

### LEGENDS

#### WARNING

#### Probabilistic Forecast

WARNING (TAK	EACTION)
ALERT   BE PRE	PARED)
WATCH (BE UPDATED)	

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy: 64.5 to 115.5 mm/cm \*

Very Heavy: 115.6 to 204.4 mm/cm\* Extremely Heavy: > 204.4 mm/cm\*

When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.

Severe Heat Wave: Maximum Temperature Departure from normal ≥ 6.5° C

1+ b). Based on Actual maximum temperature **Heat Wave** 

Heat Wave: When actual maximum temperature ≥45°C

Severe Heat Wave: When actual maximum temperature ≥47°C

(c). Criteria for heat wave for coastal stations
When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C



When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C

Severe Warm Night: When minimum temperature departure >6.4 °C

When minimum temperature of a station <10°C for plains and <0°C for hilly regions. (a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -5.4 °C Severe Cold Wave: Minimum Temperature Departure from normal ≥ -6.5 °C

**Cold Wave** 

b) Based on actual Minimum Temperature (for Plains only)

Cold Wave: When Minimum Temperature is ≤ 4.0 °C

Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C

(c) For Coastal Stations

When Minimum Temperature departure is 3-4.5 °C or actual Minimum Temperature is 3-15 °C

Cold Day

0

Fog

When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Day: Maximum Temperature Departure from normal 5 -6.5 °C

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50-200 metres

Very Dense Fog: when the visibility < 50 metres

45 Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind

55

ice deposits on ground

Air temperature ≤4°C ( over Plains)

4

A strong wind that rises suddenly, lasts for atleast 1 minute.

Squall

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Sea State 6

Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots

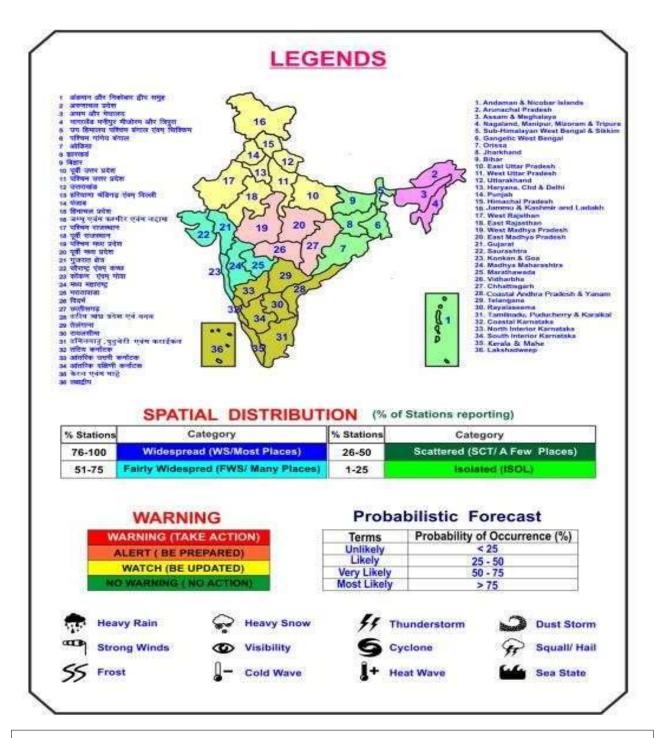
Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Strom: Wind speed >220 kmph (>119 knots)



Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.