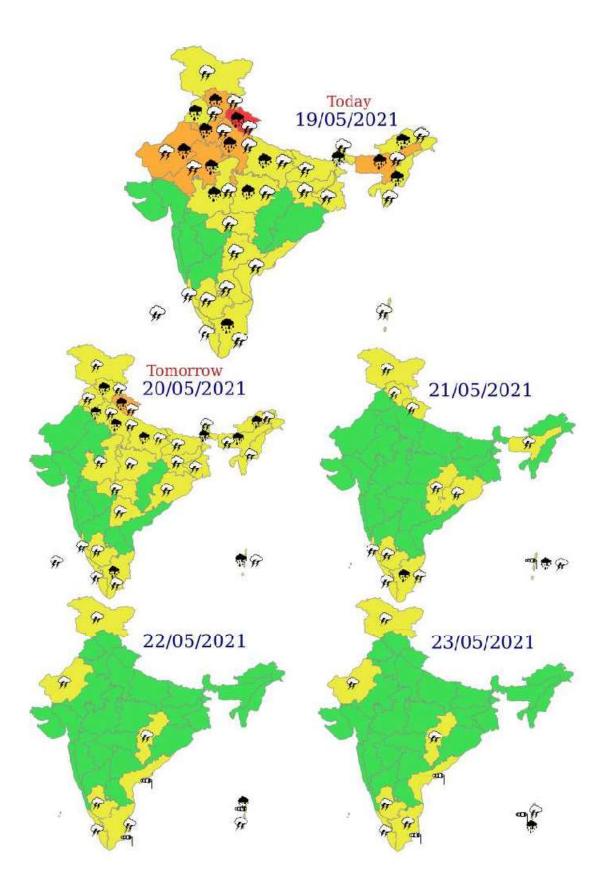


Government of India Earth System Science Organization Ministry of Earth Sciences India Meteorological Department

Press Release Date: 19th May, 2021 Time of Issue: 1330 hrs IST

Subject: Wet spell over Western Himalayan Region & plains of Northwest India on 19 & 20 May, 2021

- A Depression (remnant of the Extremely Severe Cyclonic Storm "Tauktae") lay centred at 0830 hours IST of today, the 19th May, 2021 near latitude 24.9°N and longitude 73.7°E over southeast Rajasthan, about 30 km south-southwest of Udaipur (Rajasthan). It is very likely to move northeastwards and weaken gradually into a Well Marked Low pressure area during next 12 hours. The remnant of the system is very likely to move further northeastwards across Rajasthan to Uttar Pradesh during the next two days.
- A Western Disturbance lies as a cyclonic circulation over Jammu & Kashmir between 3.1 & 3.6 km above mean sea level with trough aloft at 5.8 km above mean sea level roughly along longitude 70°E to the north of latitude 27°N.
- The depression (remnant of Cyclonic Storm "Tauktae") would interact with the above Western Disturbance. 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 and extremely heavy falls at isolated places over Uttarakhand; heavy to very heavy rainfall at isolated places over northwest Uttar Pradesh; and heavy rainfall at isolated places over Himachal Pradesh Haryana, Chandigarh & Delhi, rest parts of Uttar Pradesh, northeast Rajasthan and north Madhya Pradesh on 19 May, 2021.
- \circ Light to moderate rainfall/ thundershower is very likely over Delhi NCR on 19 May, 2021
- Rainfall activity is very likely to decrease from 20 May with fairly widespread to widespread rainfall over Uttar Pradesh & Uttarakhand; and isolated to scattered rainfall over rest parts of northwest India. Heavy to very heavy rainfall at isolated places also likely over Uttarakhand and heavy rainfall at isolated places over West Uttar Pradesh on 20th May. Rainfall activity is very likely to decrease significantly over the region from 21st May, 2021.
- Multi-Hazard warnings for next 5 days are given in following page:



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

Heavy to very heavy rainfall & extremely heavy falls at isolated places very likely over Uttarakhand on 19th and heavy to very heavy at isolated places on 20th; heavy to very heavy rainfall at isolated places over northwest Uttar Pradesh on 19th and isolated heavy on 20th; heavy rainfall at isolated places over Himachal Pradesh Haryana, Chandigarh & Delhi, rest parts of Uttar Pradesh, northeast Rajasthan and north Madhya Pradesh on 19th May, 2021.

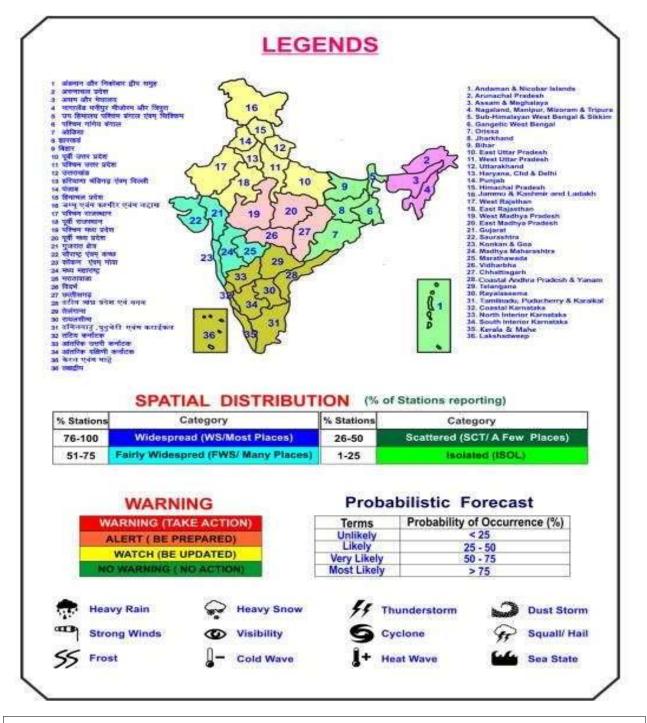
A. Impact Expected over Uttarakhand and northwest Uttar Pradesh:

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in hilly & urban areas.
- o Occasional reduction in visibility due to heavy rainfall.
- o Disruption of traffic in 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)
- o Damage to horticulture and standing crops in some areas due to inundation.

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.

| | L | LEGENDS | | |
|--|---|--|---|--|
| | WARNING | Probab | ilistic Forecast | |
| | WARNING (TAKE ACTION) | Terms | Probability of Occurrence (%) | |
| | | Unlikely | < 25 | |
| | ALERT (BE PREPARED) | Likely | 25 - 50 | |
| | WATCH (BE UPDATED) | Very Likely | 50 - 75 | |
| | NO WARNING (NO ACTION) | Most Likely | >75 | |
| | Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* | | | |
| Rain/ Snow * | Extremely Heavy: > 204.4 mm/cm * | | | |
| j+ Heat Wave | When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly region (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 26.5° C (b). Based on Actual maximum temperature | | | |
| | | | | 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 | | | |
| | 100 | When maximum temperature rem | And the second se | |
| Narm Night | Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C. | | | |
| annaght | Severe Warm Night: When minimum to | emperature departure >6.4 | P*C | |
| j- Cold Wave | 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 -6.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal ≥ -6.5 °C | | | |
| | (b) Based on actuel Minimum Temperature (for Plains only) | | | |
| Sold Wave | and the second | Cold Wave : When Minimum Temperature is ≤ 4.0 °C | | |
| | Severe Cold Wave: When Minimum Te | emperature 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 | | | |
| | When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions | | | |
| 0- | Based on departure | A MARKET STATE AND A MARKET S | | |
| Cold Day | Cold Day: Maximum Temperature Depr | | | |
| State Contes | Severe Cold Day: Maximum Temperature Departure from normal 5 -6.5 °C | | | |
| | Phenomenon of small droplet | s suspended in air | and the horizontal visibility < 1kr | |
| | Moderate Fog: When the visibility between 500-200 metres | | | |
| 6 | | Dense Fog: when the visibility between 50-200 metres | | |
| 0 | Dense Fog: when the visibility between | n 50- 200 metres | | |
| Fog | | n 50- 200 metres | | |
| | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 | n 50- 200 metres 0 metres | ght (Lightning) and a sharp rumbling | |
| Fog \$\$ | Very Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani sound (thunder) | n 50-200 metres 0 metres ifested by a flash of li | ght (Lightning) and a sharp rumbling Ifted to great heights by a strong and | |
| Fog | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani sound (thunder) | n 50-200 metres 0 metres ifested by a flash of li | an | |
| Fog H nunderstorm Dust/Sand Storm | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani sound (thunder) An ensemble of particles of dust of turbulent wind. | n 50-200 metres 0 metres ifested by a flash of li | an | |
| Fog // nunderstorm Dust/Sand | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges man sound (thunder) An ensemble of particles of dust of turbulent wind. | n 50-200 metres 0 metres ifested by a flash of li | an | |
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| Fog | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani sound (thunder) An ensemble of particles of dust of turbulent wind Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudd Moderate: Wind speed 52-61 kmph | n 50-200 metres 0 metres ifested by a flash of lin or sand energetically l | ifted to great heights by a strong and | |
| Fog Ji hunderstorm Dust/Sand Storm Frost Frost | Dense Fog: when the visibility of the visibility < 5 | n 50-200 metres 0 metres ifested by a flash of lin or sand energetically l | ifted to great heights by a strong and | |
| Fog H sunderstorm Dust/Sand Storm | Dense Fog: when the visibility between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani sound (thunder) An ensemble of particles of dust of turbulent wind Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudd Moderate: Wind speed 52-61 kmph | n 50-200 metres 0 metres ifested by a flash of lin or sand energetically l | ifted to great heights by a strong and | |
| Fog Ji hunderstorm Dust/Sand Storm Storm Frost P | Dense Fog: when the visibility of the visibility < 5 | n 50-200 metres 0 metres ifested by a flash of lig or sand energetically l lenly, lasts for atles | ifted to great heights by a strong and | |
| Fog Ji hunderstorm Dust/Sand Storm Storm Frost P | Dense Fog: when the visibility of between Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani- sound (thunder) An ensemble of particles of dust of turbulent wind Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudd Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea | n 50-200 metres 0 metres ifested by a flash of lin or sand energetically l lenly, lasts for atle i over specific area | ifted to great heights by a strong and | |
| Fog Ji hunderstorm Dust/Sand Storm Storm Frost | Dense Fog: when the visibility of the visibility < 5 | n 50-200 metres 0 metres ifested by a flash of lin or sand energetically l lenly, lasts for atle lenly, lasts for atle over specific area 62 kmph (22-33 knots) 6 | ifted to great heights by a strong and ast 1 minute. | |
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| Fog Ji Junderstorm Dust/Sand Storm Frost Squall Line | Dense Fog: when the visibility of the visibility < 5 | i 50-200 metres 0 metres ifested by a flash of lip or sand energetically l lenly, lasts for atles energy for a specific area 62 kmph (22-33 knots) & kmph (34-63 knots) & Way >63 knots) & Ways height | ifted to great heights by a strong and ast 1 minute. | |
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| Fog H hunderstorm Dust/Sand Storm Frost Squall L | Dense Fog: when the visibility betweer Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani- sound (thunder) An ensemble of particles of dust of turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudd Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea Rough to very rough: Wind speed 83-117 Phenomenal: Wind speed 83-117 Phenomenal: Wind speed 83-87 kmp | 1 50-200 metres 0 metres ifested by a flash of live or sand energetically levels lenly, lasts for atles tover specific area 62 kmph (22-33 knots) & kmph (34-63 knots) & Wa >63 knots) & Wave height toph (54-47 knots) 88-117 kmph (48-63 knots) | ifted to great heights by a strong and ast 1 minute. Wave height 2.5-6 metre size height 6-14 metre >14 metre | |
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| Fog JH Storm Dust/Sand Storm Frost Squall Line | Dense Fog: when the visibility betweer Very Dense Fog: when the visibility < 5 Sudden electrical discharges mani- sound (thunder) An ensemble of particles of dust of turbulent wind. Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises sudd Moderate: Wind speed 52-61 kmph Severe: Wind speed 52-61 kmph Very Severe: Wind speed >87 kmph Effect of various waves in the sea Rough to very rough: Wind speed 83-117 Phenomenal: Wind speed 83-117 Phenomenal: Wind speed 83-87 kmp | ifested by a flash of lig ifested by a flash of lig or sand energetically light lenly, lasts for atles exercised by a flash of light lenly, lasts for atles by lasts for atles is with the last of the light lenly, lasts for atles by last of the light lenly, last of the la | ifted to great heights by a strong and ast 1 minute. Wave height 2.5-6 metre ave height 6-14 metre >14 metre | |



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