

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

**Press Release** 

Date: 26<sup>th</sup> March, 2021

Time of Issue: 1400 hrs IST

### Subject: Intense Wet spell over Northeast India during 29th March-01st April, 2021

- Under the influence of strong lower level southwesterlies winds from the Bay of Bengal, fairly widespread to widespread rainfall with thunderstorm/lightning at isolated places are very likely over Northeast India during 29<sup>th</sup> March-02<sup>nd</sup> April with maximum activity on 30<sup>th</sup> & 31<sup>st</sup> March, 2021.
- Isolated heavy falls on 29<sup>th</sup> March & 01<sup>st</sup> April and isolated heavy to very heavy falls on 30th & 31<sup>st</sup> March are very likely over south Assam, Meghalaya, Tripura and Mizoram. Isolated heavy falls are likely over Arunachal Pradesh on 01<sup>st</sup> April, 2021.
- It may cause landslides and inundation of low lying areas at some places over south Assam,
   Meghalaya, Tripura and Mizoram during 30<sup>th</sup> March-01<sup>st</sup> April, 2021.
- Detailed forecast & warnings are given in next page:

Sub- Divisions	29-Mar-21	30-Mar-21	31-Mar-21	01-April-21	02- April-21
Assam & Meghalaya	Rainfall at many places with isolated thunderstorm, lightning & gusty winds (30-40 kmph). Isolated heavy falls over south Assam & Meghalaya	Rainfall at most places with thunderstorm, lightning & gusty winds (40-50 kmph). Isolated heavy to very heavy falls over south Assam & Meghalaya	Rainfall at most places with thunderstorm, lightning & gusty winds (40-50 kmph). Isolated heavy to very heavy falls over south Assam & Meghalaya	Rainfall at many places with isolated thunderstorm, lightning & gusty winds (30-40 kmph). Isolated heavy falls over Assam & Meghalaya	Rainfall at many places
Nagaland, Manipur, Mizoram & Tripura	Rainfall at many places with isolated thunderstorm, lightning & gusty winds (30-40 kmph). Isolated heavy falls over Mizoram & Tripura	Rainfall at most places with thunderstorm, lightning & gusty winds (40-50 kmph). Isolated heavy to very heavy falls over Mizoram & Tripura	Rainfall at most places with thunderstorm, lightning & gusty winds (40-50 kmph). Isolated heavy to very heavy falls over Mizoram & Tripura	Rainfall at many places with isolated thunderstorm, lightning & gusty winds (30-40 kmph). Isolated heavy falls over Manipur, Mizoram & Tripura	Rainfall at a few places

Arunachal Pradesh	Rainfall at a few places with isolated thunderstorm & lightning	Rainfall at many places with isolated thunderstorm & lightning	Rainfall at many places with isolated thunderstorm & lightning	Rainfall at many places with isolated heavy falls	Rainfall at many places
----------------------	---	--	--	---	----------------------------

Impact expected and action suggested due to Thunderstorm, Lightning & Gusty winds (speed reaching 40-50 kmph) over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 29<sup>th</sup> March-01<sup>st</sup> April, 2021.

#### Impact expected:

- Strong winds may damage plantation, horticulture and standing crops.
- Strong winds may injure people and cattle at open places.

#### **Action suggested:**

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.
- Farming operations may be suspended during the event.

Impact expected & action suggested due to heavy rainfall over south Assam, Meghalaya, Mizoram and Tripura during 29<sup>th</sup> March-01<sup>st</sup> April, 2021.

- 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/snowfall.
- Disruption of traffic due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides.

#### **Action Suggested**

- Check for traffic congestion on your route before starting your journey.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face water logging problem often.
- Avoid staying in vulnerable structure.

#### **LEGENDS**

#### WARNING

## WARNING (TAKE ACTION) ALERT ( BE PREPARED) WATCH (BE UPDATED) NO WARNING ( NO ACTION)

#### Probabilistic Forecast

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

# Heat Wave

(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



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 -6.4 °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 ≤-4.5 °C or actual Minimum Temperature is ≤ 15 °C

Ũ-Cold Day 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 s -6.5 °C

0

Fog

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



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.



Ice deposits on ground

Air temperature ≤4°C ( over Plains)



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

Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed >87 kmph



Sea State

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



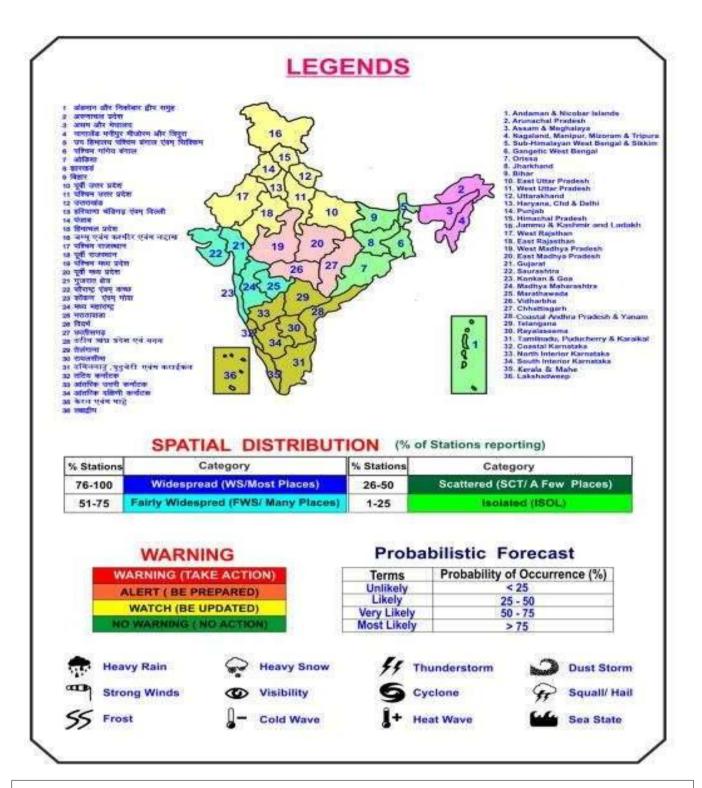
Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

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

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

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.