Tuesday 15 February 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

♦ Weather Systems and associated forecast & warnings:
   i) Northeasterly winds are prevailing over coastal Tamilnadu in lower tropospheric levels. Under its influence, isolated rainfall very likely over south Tamilnadu and south Kerala and Lakshadweep Islands during next 2-3 days. Scattered rainfall also likely over Lakshadweep during next 2 days.
   ii) Under the influence of the Western Disturbance as a trough in middle & upper tropospheric westerlies along Long.70°E to the north of Lat.28°N; isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand on 15th & 16th February, 2022.
   iii) Under the influence of another Western Disturbance; isolated to scattered light rainfall/snowfall very likely over Western Himalayan Region from 17th to 20th February, 2022.
   iv) Fairly widespread to widespread rainfall very likely over Andaman & Nicobar Islands during next 5 days with Thunderstorm accompanied with lightning during 15th-17th February 2022.

Main Weather Observations

♦ Rainfall observed (from 0830 hours IST to 1730 hours IST yesterday): at a few places over Lakshadweep and at isolated places over Tamilnadu-Puducherry-Karaikal.

♦ Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST yesterday)(1 cm or more): NIL.

♦ Minimum Temperature Departures (as on 14-02-2022): Minimum temperatures were appreciably above normal (5.0°C to 3.1°C ) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at isolated places over Saurashtra-Kutch, Tamilnadu-Puducherry-Karaikal and Kerala-Mahe. They were appreciably above normal (-3.1°C to -5.0°C) at most places over north Odisha and Gangetic West Bengal; at isolated places over Coastal Andhra Pradesh-Yanam, East Madhya Pradesh, Vidarbha, Bihar and Assam-Meghalaya; below normal (-1.6°C to -3.0°C) at many places over East Uttar Pradesh, Sub-Himalayan West Bengal-Sikkim, Jharkhand; at a few places over Nagaland-Manipur-Mizoram-Tripura, West Madhya Pradesh, Chhattisgarh and at isolated places over Himachal Pradesh, Haryana-Chandigarh-Delhi, West Uttar Pradesh, Telangana and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 5.0°C was reported at Alwar (East Rajasthan) over the plains of the country.

♦ Maximum Temperature Departures (as on 14-02-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Punjab, Haryana-Chandigarh-Delhi; at isolated places over West Madhya Pradesh, Gujarat state, Konkan & Goa, Assam & Meghalaya and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at most places over Gangetic West Bengal and Bihar; at a few places over Odisha and East Uttar Pradesh; at isolated places over East Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 35.4°C was reported at Cannur (Kerala & Mahe) over the country.

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(C)India Meteorological Department 2022
Meteorological Analysis (Based on 0530 hours IST)

♦ The Western Disturbance as a trough in middle & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long.70°E to the north of Lat.28°N.
♦ The induced cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 2.1 km above mean sea level persists.
♦ The cyclonic circulation over Bangladesh & neighbourhood extending upto 3.1 km above mean sea level persists.
♦ A fresh Western Disturbance is very likely to affect Western Himalayan Region from the night of 17th February, 2022.

Weather Forecast for next 5 days * upto 0830 hours IST of 20th February, 2022

♦ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
♦ Gradual rise in minimum temperatures by 2-4°C very likely over most parts of Northwest & Central India during next 24 hours and no significant change thereafter for subsequent 3 days.
♦ No significant change in minimum temperatures very likely over most parts of East India & Gujarat State during next 24 hours and gradual rise by 2-4°C during subsequent 3 days.

Weather Outlook for subsequent 2 days during 20th February to 22nd February, 2022

♦ Under the influence of a Western Disturbance; Isolated to scattered light rainfall/snowfall likely over Jammu & Kashmir on 21st February, 2022.
♦ Scattered to fairly widespread rainfall over parts of Northeast India.
♦ Isolated light/moderate rainfall likely over south Tamilnadu, Puducherry & Karaikal and south Kerala & Mahe and scattered to fairly widespread light/moderate rainfall over Andaman & Nicobar Islands.
♦ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

15 February (Day 1): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.

16 February (Day 2): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.

17 February (Day 3): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.

18 February (Day 4): ♦ No weather warning.

19 February (Day 5): ♦ No weather warning.

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.

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(Service to the Nation since 1875)
### 5 Day Rainfall Forecast (MORNİNG)

**15-February-2022**

<table>
<thead>
<tr>
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<th>18Feb</th>
<th>19Feb</th>
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<table>
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<th>% Station Reporting Rainfall</th>
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<td>% Stations</td>
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<td>51-75</td>
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<tr>
<td>No Rain</td>
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</table>

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Fig. 1: Accumulated Rainfall (mm) during past 24 hours

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Fig. 2: Maximum Temperature during past 24 hours

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Fig. 3: Minimum Temperature during past 24 hours

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Fig. 4: Departure from Normal of Maximum Temperatures

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Tuesday 15 February 2022

15 February (Day 1): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.

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Wednesday 16 February 2022

16 February (Day 2): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.

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(Since 11 November, 1875)
Thursday 17 February 2022

17 February (Day 3): ♦ Thunderstorm accompanied with lightning at isolated places very likely over Andaman & Nicobar Islands.
18 February (Day 4): ♦ No weather warning.
Saturday 19 February 2022

19 February (Day 5): ♦ No weather warning.

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### WARNING

#### Probabilistic Forecast

<table>
<thead>
<tr>
<th>Terms</th>
<th>Probability of Occurrence (%)</th>
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<tbody>
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<td>Unlikely</td>
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<tr>
<td>Likely</td>
<td>25 - 50</td>
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<tr>
<td>Very Likely</td>
<td>50 - 75</td>
</tr>
<tr>
<td>Most Likely</td>
<td>&gt; 75</td>
</tr>
</tbody>
</table>

#### Heat Wave

When maximum temperature of a station reaches ≥40°C for plains and ≥30°C for hilly regions.

- Based on Departure from normal:
  - Heat Wave: Maximum Temperature Departure from normal ≥ 5°C to ≥ 6.4°C.
  - Severe Heat Wave: Maximum Temperature Departure from normal ≥ 6.5°C.

- Based on Actual Maximum Temperature:
  - Heat Wave: When actual maximum temperature ≥ 45°C.
  - Severe Heat Wave: When actual maximum temperature ≥ 47°C.

- Criteria for heat wave for coastal stations:
  - Maximum temperature departure is ≥ 4.9°C from normal. Heat Wave may be described provided maximum temperature is ≥ 37°C.

#### Warm Night

When maximum temperature remains ≥ 49°C.

- Warm Night: When minimum temperature departure 4.5°C to 6.4°C.
- Severe Warm Night: When minimum temperature departure ≥ 6.4°C.

#### Cold Wave

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

- 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.

- Based on actual Minimum Temperature (for Plains only):
  - Cold Wave: When Minimum Temperature is ≤ 0°C.
  - Severe Cold Wave: When Minimum Temperature is ≤ 2.0°C.

- For Coastal Stations:
  - When Minimum Temperature departure is ≤ 4.5°C or actual Minimum Temperature is ≤ 15°C.

#### 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 ≤ -6.5°C.

#### Fog

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

- 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.

#### Thunderstorm

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

#### Dust/Sand Storm

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

#### Frost

Ice deposits on ground.

#### Squall

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

- Moderate: Wind speed 52-61 kmph
- Severe: Wind speed 62-99 kmph
- Very Severe: Wind speed > 99 kmph

#### Sea State

Effect of various waves in the sea over specific area.

- High to very high: Wind speed 63-117 kmph, Wave height 6-14 metre
- Phenomenal: Wind speed > 117 kmph, Wave height > 14 metre

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

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