राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Tuesday 08 May 2018

MID-DAY

Time of Issue: 1345 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ♦ Under the influence of the present Western Disturbance over Jammu & Kashmir & neighbourhood; the cyclonic circulation over Haryana & neighbourhood and a north-south trough from East Uttar Pradesh to Vidarbha in lower levels, thunderstorm accompanied with gusty winds and moderate squall (speed between 50 to 70 kmph) is very likely to continue at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh during next 24 hours. Hailstorm is also likely at isolated places over Himachal Pradesh and Uttarakhand during the same period.
- ♦ Maximum temperatures very likely to remain in the range of 40-44°C over Rajasthan, Gujarat, Madhya Pradesh, Interior Maharashtra and over some parts of Chhattisgarh, Telangana, Rayalaseema, Coastal Andhra Pradesh and North Interior Karnataka during next two days.
- ♦ Thunderstorm observed at isolated places over Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan, East Uttar Pradesh, Karnataka, Telangana, Kerala, Tamilnadu & Puducherry, Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura from 0830 hours IST yesterday to 0830 hours IST of today and heavy rain occurred at isolated places over Tripura.
- ♦ Yesterday's Heat wave was observed at one or two pockets over Vidarbha.

Main Weather Observations

- ♦ Rainfall observed (from 0830 yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Jammu & Kashmir, Himachal Pradesh, West Rajasthan, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Kerala; at a few places over Andaman & Nicobar Islands and at isolated places over Punjab, East Rajasthan, Haryana & Delhi, East Uttar Pradesh, Gangetic West Bengal, Odisha, Coastal & South Interior Karnataka, interior Tamilnadu and Lakshadweep.
- ♦ Amount of rainfall recorded at 0830 hours IST of today (2 cm or more) are: Kailashahar-8; Goalpada-5; Mangaluru, Guwahati, Thiruvanathapuram & Aijal-4 each; Golaghat, Cooch Behar & Kalpa-3 each; Badarwah, Phalodi, North Lakhimpur, Chaparmukh, Dhubri & Manali-2 each.
- ♦ Maximum temperature departures as on 07-05-2018: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Uttarakhand and East Madhya Pradesh; at many places over Jharkhand and Konkan & Goa; at a few places over Madhya Maharashtra, Vidarbha, Coastal Karnataka and Bihar and at isolated places over west Rajasthan, Delhi, Haryana & Chandigarh, East Uttar Pradesh, Chhattisgarh, Saurashtra & Kutch, Odisha, Telangana, Coastal Andhra Pradesh, Tamilnadu & Puducherry, Assam & Meghalaya and Andaman & Nicobar Islands.They were markedly below normal (-5.1°C or Less) at most places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura; at a few places over Himachal Pradesh and Punjab and near normal over rest of the country, yesterday, the highest maximum temperature of 45.1°C was recorded at Bramhapuri (Vidarbha).
- ♦ Minimum temperature departures as on 08-05-2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over northeast Madhya Pradesh, Gangetic West Bengal, north Odisha and Telangana; above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch, Sub-Himalayan West Bengal & Sikkim and rest Odisha; at isolated places over West Uttar Pradesh, East Rajasthan, rest East Madhya Pradesh, Gujarat region, Jharkhand, coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka, Tamilnadu and Kerala. They are markedly appreciably below normal (-5.0°C or less) at many places over East Rajasthan and at isolated places over northeast Rajasthan; appreciably below normal (-3.1°C to -5.0°C) at a few places over Himachal Pradesh and at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at isolated places over Haryana & Delhi, East Uttar Pradesh and West Madhya Pradesh and near normal over rest of the country.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



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Meteorological Analysis (Based on 0830 hours IST)

- ♦ The Western Disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level over Jammu & Kashmir & neighbourhood persists and the trough aloft with its axis at 5.8 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 30°N.
- ♦ The cyclonic circulation over Haryana & neighbourhood extending upto 0.9 km above mean sea level persists.
- ♦ The trough at 1.5 km above mean level runs from Punjab to Madhya Maharashtra across West Uttar Pradesh & Madhya Pradesh, now seen at 0.9km above mean level from East Uttar Pradesh to Vidarbha across East Madhya Pradesh.
- ◆ A cyclonic circulation lies over south Rajasthan & adjoining north Gujarat extends upto 1.5 km above mean sea level.
- ♦ The cyclonic circulation over Sub-Himalayan West Bengal & Sikkim and neighbourhood, now lies over Sub-Himalayan West Bengal & adjoining Bihar extending upto 0.9 km above mean sea level.
- ◆ The cyclonic circulation over east Assam & neighbourhood extending upto 0.9 km above mean sea level persists.
- ♦ The north-south trough at 1.5 km above mean sea level roughly along Long. 88°E to the north of Lat.24°N persists.
- ♦ The north-south trough from North Interior Karnataka to south interior Tamilnadu across South Interior Karnataka extending upto 0.9 km above mean sea level persists.
- ♦ The cyclonic circulation over southeast Arabian Sea, now lies over central parts of south Arabian sea extending upto 3.1 km above mean sea level.
- A cyclonic circulation lies over south Tamilnadu & neighbourhood between 4.5 & 5.8 km above mean sea level.
- ♦ A cyclonic circulation lies off Tamilnadu coast between 2.1 & 3.1 km above mean sea level.
- ♦ A cyclonic circulation lies over Lakshadweep area at 1.5 km above mean sea level.

Weather Forecast for next 5 days * upto 0830 hours IST of 12th May, 2018

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table 1.
- ♦ No significant change in maximum temperatures over Northwest and Central India during next 2-3 days.
- ♦ Maximum temperatures very likely to remain in the range of 40-44°C over Rajasthan, Gujarat, Madhya Pradesh, Interior Maharashtra and over some parts of Chhattisgarh, Telangana, Rayalaseema, Coastal Andhra Pradesh and North Interior Karnataka during next 2 days and no significant change in maximum temperatures over rest of the country during the same period.

Weather Outlook for subsequent 2 days from 13th May to 15th May 2018

- Scattered to fairly widespread rain/thundershowers likely over northeast India.
- ♦ Isolated to scattered rain/thundershowers likely over Western Himalayan region, East India, central and south peninsular India.
- Dry weather likely over remaining parts of the country.
- ♦ A fresh Western Disturbance is likely to affect Western Himalayan region from 13th May onwards.



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Weather Warning during next 5 days *

- **08 May (Day 1)**: ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places over Himachal Pradesh and Uttarakhand.
- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- ♦ Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, East Uttar Pradesh, South Interior Karnataka, north Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu and Kerala.
- ♦ Thunderstorm/ duststorm accompanied with squall very likely at isolated places Rajasthan.
- ♦ Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, South Interior Karnataka and Kerala.
- ♦ Heat wave conditions likely at one or two pockets over Vidarbha, interior Odisha and west parts of Jharkhand.
- **09 May (Day 2):** ♦ **Thunderstorm accompanied with squall** (wind speed reaching 50-70 kmph) **and hail** very likely at isolated places over Uttarakhand, Bihar and Sub-Himalayan West Bengal & Sikkim.
- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jharkhand, Gangetic West Bengal.
- ♦ Thunderstorm accompanied with gusty winds very likely at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, north Coastal Andhra Pradesh, Rayalaseema, Tamilnadu and Kerala.
- ♦ Thunderstorm/ duststorm very likely at isolated places West Rajasthan.
- ♦ Heavy rain very likely at isolated places over Tamilnadu, South Interior Karnataka and Kerala.
- ♦ Heat wave conditions likely at one or two pockets over Vidarbha, interior Odisha and west parts of Jharkhand.
- **10 May (Day 3)**: **♦ Thunderstorm accompanied with squall** (wind speed reaching 50-70 kmph) **and hail** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal.
- ♦ Heavy rain very likely at isolated places over Assam & Meghalaya.
- ♦ Heat wave conditions likely at one or two pockets over Vidarbha.
- 11 May(Day 4): ♦ Heat wave conditions likely at one or two pockets over Vidarbha.
- **12 May (Day 5):** ♦ **Heavy rain** very likely at isolated places over Coastal & South Interior Karnataka, Kerala and Tamilnadu.
- Heat wave conditions likely at one or two pockets over Vidarbha.



Table-1

5 Day Rainfall Forecast (MID-DAY)

08-May-2018

Met-Sub-Division	08-May Today	09May Wed	10May Thu	11May Fri	12May Sat
1. Andaman & Nicobar Islands	SCT	SCT	SCT	FWS	FWS
2. Arunachal Pradesh	FWS	FWS	SCT	SCT	SCT
3. Assam & Meghalaya	WS	WS	FWS	SCT	SCT
4. N. M. M. & T.	WS	WS	FWS	SCT	SCT
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	SCT	SCT
6. Gangetic West Bengal	ISOL	ISOL	ISOL	ISOL	SCT
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	SCT	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	DRY	DRY	DRY
11. West Uttar Pradesh	SCT	SCT	DRY	DRY	DRY
12. Uttarakhand	ws	FWS	DRY	DRY	ISOL
13. Haryana, Chd & Delhi	FWS	ISOL	DRY	DRY	DRY
14. Punjab	FWS	ISOL	DRY	DRY	ISOL
15. Himachal Pradesh	WS	SCT	DRY	DRY	ISOL
16. Jammu & Kashmir	FWS	ISOL	DRY	DRY	SCT
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	SCT	ISOL	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	ISOL	ISOL
24. Madhya Maharashtra	DRY	DRY	ISOL	ISOL	ISOL
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	ISOL	ISOL
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	SCT
32. Coastal Karnataka	SCT	SCT	SCT	SCT	SCT
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	SCT	SCT	SCT	SCT	SCT
35. Kerala	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	ISOL	ISOL	SCT	ISOL	SCT

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100		26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		



Fig. 1: Maximum Temperature during past 24 hours

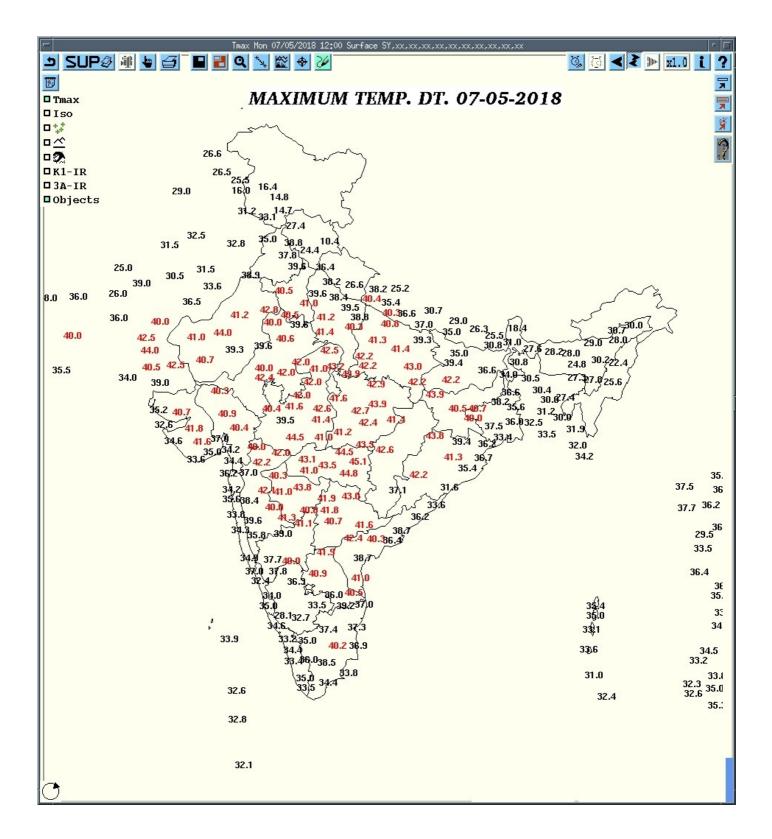


Fig. 2: Minimum Temperature during past 24 hours

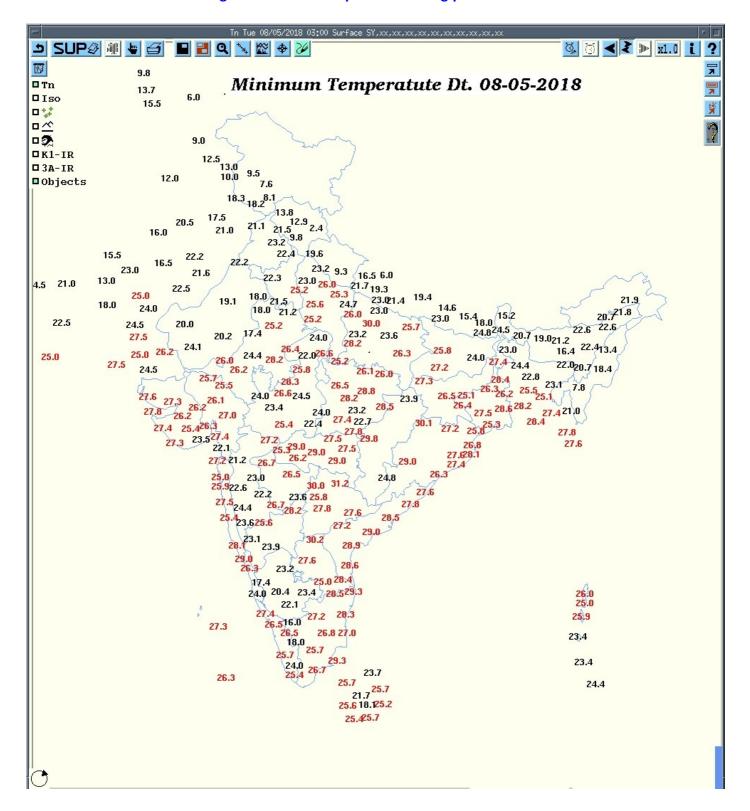




Fig. 3: Departure from Normal of Maximum Temperatures

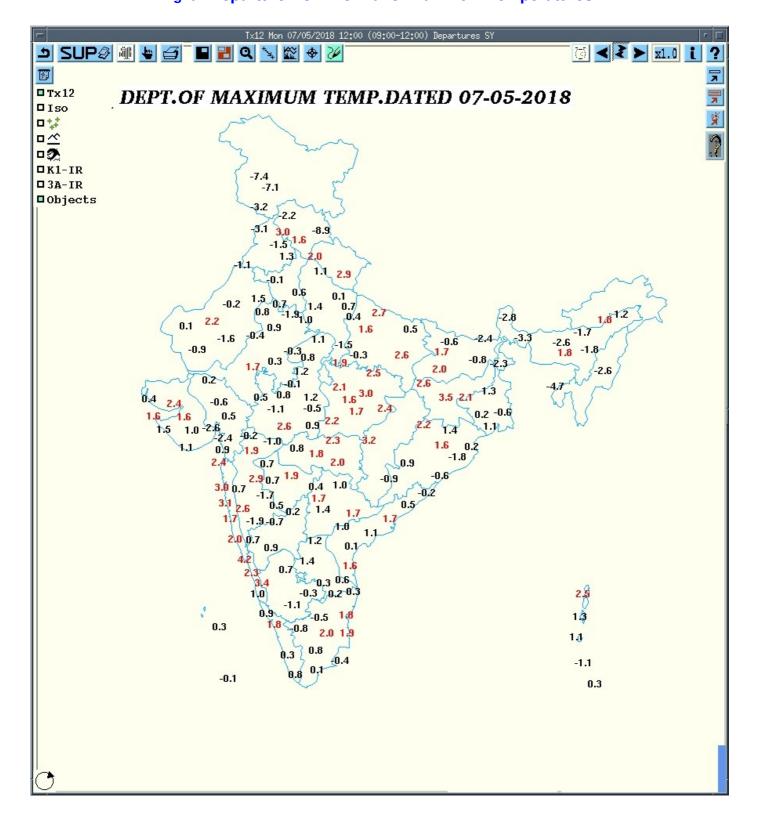
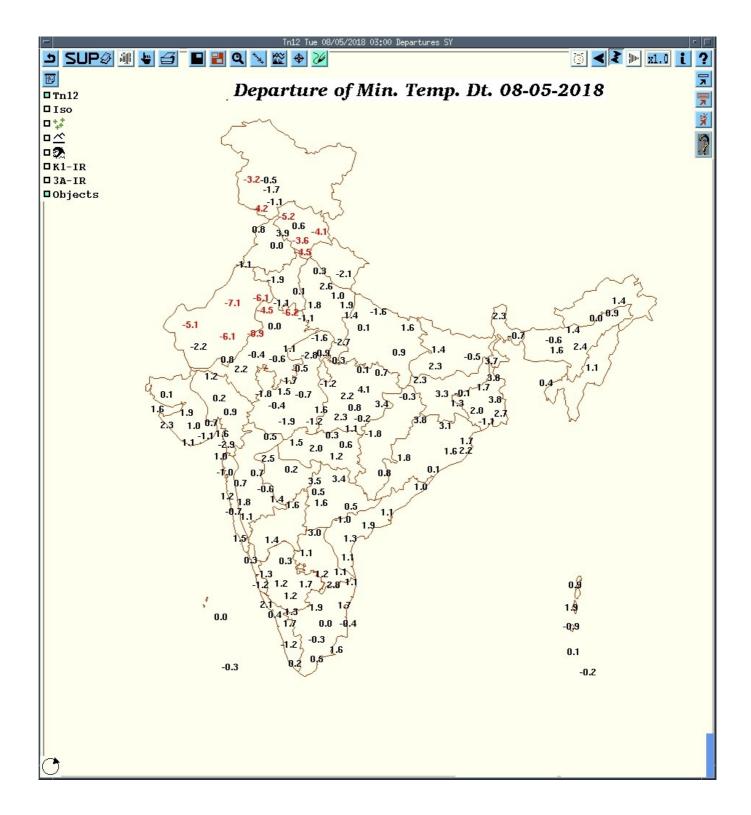




Fig. 4 : Departure from Normal of Minimum Temperatures

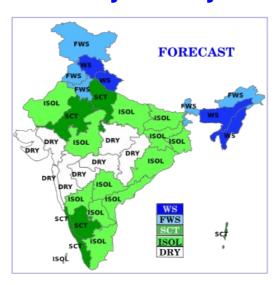


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Tuesday 08 May 2018



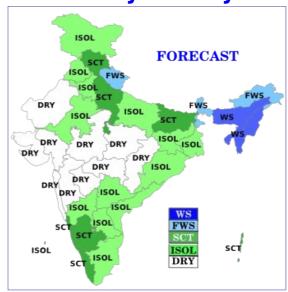


08 May (Day 1): ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) and hail very likely at isolated places over Himachal Pradesh and Uttarakhand.

- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- ♦ Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Madhya Pradesh, East Uttar Pradesh, South Interior Karnataka, north Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamilnadu and Kerala.
- ◆ Thunderstorm/ duststorm accompanied with squall very likely at isolated places Rajasthan.
- ♦ Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, South Interior Karnataka and Kerala.
- ♦ Heat wave conditions likely at one or two pockets over Vidarbha, interior Odisha and west parts of Jharkhand.



Wednesday 09 May 2018





राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



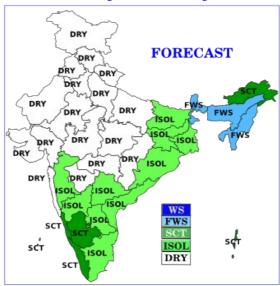
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09 May (Day 2): ♦ **Thunderstorm accompanied with squall** (wind speed reaching 50-70 kmph) **and hail** very likely at isolated places over Uttarakhand, Bihar and Sub-Himalayan West Bengal & Sikkim.

- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jharkhand, Gangetic West Bengal.
- ♦ Thunderstorm accompanied with gusty winds very likely at isolated places over Himachal Pradesh, Uttar Pradesh, East Rajasthan, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, north Coastal Andhra Pradesh, Rayalaseema, Tamilnadu and Kerala.
- ♦ Thunderstorm/ duststorm very likely at isolated places West Rajasthan.
- ♦ Heavy rain very likely at isolated places over Tamilnadu, South Interior Karnataka and Kerala.
- ♦ Heat wave conditions likely at one or two pockets over Vidarbha, interior Odisha and west parts of Jharkhand.



Thursday 10 May 2018



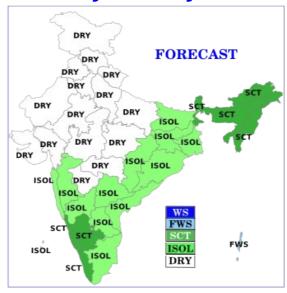


10 May (Day 3): **♦ Thunderstorm accompanied with squall** (wind speed reaching 50-70 kmph) **and hail** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.

- ♦ Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal.
- Heavy rain very likely at isolated places over Assam & Meghalaya.
- Heat wave conditions likely at one or two pockets over Vidarbha.



Friday 11 May 2018

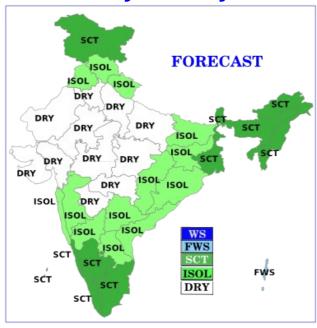


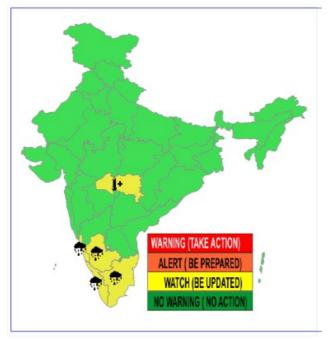


11 May(Day 4): ♦ Heat wave conditions likely at one or two pockets over Vidarbha.



Saturday 12 May 2018



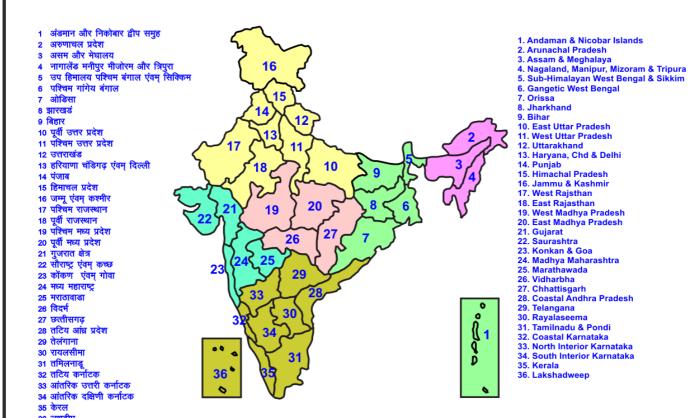


12 May (Day 5): ♦ **Heavy rain** very likely at isolated places over Coastal & South Interior Karnataka, Kerala and Tamilnadu.

♦ Heat wave conditions likely at one or two pockets over Vidarbha.



LEGENDS



SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
Dry (No station reported Rainfall)			

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 Rain



Heavy Snow







Dust Storm

Squall/ Hail



Strong Winds



Visibility



Cyclone



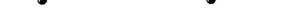
Heat Wave



Sea State



Cold Wave



^{*} Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

S Frost



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

LEGENDS Probabilistic Forecast WARNING WARNING (TAKE ACTION) Probability of Occurrence (%) Terms Unlikely Likely **ALERT (BE PREPARED)** 25 - 50 50 - 75 WATCH (BE UPDATED) ery Lil Most Likel NO WARNING (NO ACTION > 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 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 (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 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 (b) Based on actual Minimum Temperature (for Plains only) **Cold Wave** 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 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. **Cold Day** Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres 0 Dense Fog: when the visibility between 50-200 metres Fog Very Dense Fog: when the visibility < 50 metres 44 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Thunderstorm An ensemble of particles of dust or sand energetically lifted to great heights by a strong and **Dust/Sand** Storm 55 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 45 Severe: Wind speed 62-87 kmph Squall 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 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) 9 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Cyclone Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

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