



Friday 25 June 2021

MID-DAY

Time of Issue: 1300 hours IST

## ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

### Significant Weather Features

- ◆ The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- ◆ Present meteorological conditions as well as model forecasts indicate that large scale features as well as prevailing wind patterns over the region are not likely to be favourable during the forecast period for further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- ◆ A cyclonic circulation lies over Jharkhand & neighbourhood extending upto mid-tropospheric levels. It is very likely to meander over the same area during next 3 days. Under its influence, fairly widespread to widespread rainfall with isolated **heavy falls** and **thunderstorm & lightning** very likely over most parts of East & adjoining Central India (Bihar, Jharkhand, Chhattisgarh, Odisha and East Madhya Pradesh) during next 3 days and reduction in rainfall intensity and distribution thereafter. Isolated **very heavy rainfall** also very likely over Chhattisgarh and East Madhya Pradesh during next 24 hours.
- ◆ Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall very likely over Northeast India during next 5 days. Isolated **heavy rainfall** very likely over Assam & Meghalaya and Arunachal Pradesh during next 3 days and **very heavy rainfall** over Assam & Meghalaya during subsequent 3 days.
- ◆ Under the influence of strengthening of lower level winds: rainfall activity is likely to increase over Kerala, Karnataka and Tamilnadu where fairly widespread rainfall with isolated heavy falls is very likely during 27th-29th June, 2021.
- ◆ **Moderate to severe thunderstorms** accompanied by frequent **cloud to ground lightning** very likely over Madhya Pradesh and Chhattisgarh during next 24 hours. This may cause injuries leading to casualties to people and animals staying outdoors.

### Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at most places over** Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, East Madhya Pradesh, Konkan & Goa, Vidarbha and Coastal Karnataka; **at many places over** Arunachal Pradesh, Assam & Meghalaya, Jharkhand, Bihar, East Uttar Pradesh, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Chhattisgarh, North Interior Karnataka, Lakshadweep and Nagaland, Manipur, Mizoram & Tripura; **at a few places over** Odisha, Gangetic West Bengal, Punjab, Himachal Pradesh, East Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and South Interior Karnataka and **at isolated places over** West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Rajasthan, Saurashtra & Kutch, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (6 cm or more): Kawardha-17; Palsana-16; Bankhedi and Udaipura-15; Hanumana, Baloda Basar and Baradoli-14; Gadgarwara and Chanderdeepghat-12; Kankavli, Deori, Singrauli, Halol and Phoolpur-11; Achmarhi (West Madhya Pradesh), Malvan, Panchmarhi, Cherrapunji and Pachpahar-10; Banki, Sonkatch, Gulabganj and Konta-9; Waghai, Tribeni, Dewas, Kheda-8; Valia, Chenari, Pernem, Amla, Sironj and Bemetara-7; Harnai (Konkan & Goa) and Hoshangabad (West Madhya Pradesh), Khamphat, Vaso and Unjha-6 each.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) **Heavy to Very Heavy Rainfall** at isolated places over Madhya Pradesh, East Uttar Pradesh, Gujarat Region and Chhattisgarh and **heavy rainfall** at isolated places over Odisha, Jharkhand, Bihar, Konkan & Goa and Assam & Meghalaya.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **at a few places over** East Uttar Pradesh and at **isolated places over** Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Chhattisgarh, West Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Tripura and Saurashtra & Kutch.
- ◆ **Maximum Temperature Departures as on 24-06-2021:** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at many places over Coastal Karnataka; at a few places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim and South Interior Karnataka; at isolated places over Saurashtra & Kutch and West Rajasthan. They were **markedly below normal (-5.1°C or less)** at many places over Vidarbha; at a few places over East Madhya Pradesh; at isolated places over East Uttar Pradesh and West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Chhattisgarh; at a few places over Himachal Pradesh, Odisha, Madhya Maharashtra, Marathwada and Telangana; at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at most places over Gujarat Region; at a few places over East Rajasthan and East Uttar Pradesh and **near normal** over rest parts of the country. Yesterday, the **highest maximum temperature** of 43.4°C was reported at Churu (**West Rajasthan**).
- ◆ **Minimum Temperature Departures as on 25-06-2021:** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim. They are **appreciably below normal (-3.0°C to -5.0°C)** at a few places over Himachal Pradesh and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh and Telangana and **below normal (-1.6°C to -3.0°C)** at a few places over Vidarbha and Tamil Nadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, Rajasthan, Uttar Pradesh and Gujarat Region and **near normal** over rest parts of the country. Today, the lowest **minimum temperature** of 18.6°C was reported at **Bangalore (South Interior Karnataka)** over the plains of the country.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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## Meteorological Analysis (Based on 0830 hours IST)

- ◆ The northern Limit of southwest monsoon (NLM) continues to pass through Lat. 26°N / Long. 70°E, Barmer, Bhilwara, Dholpur, Aligarh, Meerut, Ambala and Amritsar.
- ◆ Present meteorological conditions as well as model forecasts indicate that large scale features as well as prevailing wind patterns over the region are not likely to be favourable during the forecast period for further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab.
- ◆ The trough at mean sea level from north Punjab to northeast Bay of Bengal now runs from East Uttar Pradesh to northeast Bay of Bengal across the cyclonic circulation over Jharkhand & neighbourhood and Gangetic West Bengal.
- ◆ The cyclonic circulation over Jharkhand & neighbourhood extending upto 5.8 km above mean sea level tilting southwestwards with height persists.
- ◆ The trough from the cyclonic circulation over Jharkhand to south Coastal Andhra Pradesh now runs from the cyclonic circulation over Jharkhand upto south Odisha at 0.9 km above mean sea level.
- ◆ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 71°E to the north of Lat. 30°N.
- ◆ A fresh Western Disturbance as a cyclonic circulation lies over West Afghanistan & neighbourhood at 3.1 km above mean sea level.
- ◆ A cyclonic circulation lies over southwest Rajasthan & neighbourhood between 3.1 & 5.8 km above mean sea level.
- ◆ A cyclonic circulation lies over Pakistan & adjoining Punjab at 1.5 km above mean sea level.
- ◆ The cyclonic circulation over northeast Rajasthan & neighbourhood now lies over Haryana & neighbourhood at 0.9 km above mean sea level.
- ◆ The east-west trough from cyclonic circulation over Jharkhand to north Gujarat across north Chhattisgarh and south Madhya Pradesh at 3.1 km above mean sea level has become less marked.

## Weather Forecast for next 5 days \* upto 0830 hours IST of 30th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures over northwest and adjoining central India during next 48 hours and rise by 2-3°C thereafter.
- ◆ No significant change in maximum temperatures over rest parts of the country during next 5 days.

## Weather Outlook for subsequent 2 days from 30th June 2021 to 02nd July 2021

- ◆ Fairly widespread to widespread rainfall with isolated heavy falls likely over most parts of Northeast and adjoining East India; scattered rainfall along the west coast and isolated to scattered rainfall likely over remaining parts of the country except Punjab, Haryana and Rajasthan where weather is likely to remain dry.
- ◆ Subdued rainfall/weak monsoon spell over Central, peninsular and northwest India and increase in rainfall activity over northeast India.

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## Weather Warning during next 5 days \*

**25 June (Day 1): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over East Madhya Pradesh and Chhattisgarh and **Heavy Rainfall** at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region and Konkan & Goa.

♦**Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over West Rajasthan and Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Telangana and with **lightning** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast; **Squally weather (speed 40-50 kmph gusting to 60 kmph)** over south Andaman sea. Fishermen are advised not to venture into these areas.

**26 June (Day 2): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over Chhattisgarh and Assam & Meghalaya; **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦**Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Andaman & Nicobar Islands and with **lightning** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.

**27 June (Day 3): ♦ Heavy Rainfall** very likely at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦**Thunderstorm with lightning** very likely at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**28 June (Day 4): ♦ Heavy to Very Heavy Rainfall** at isolated places over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Vidarbha, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦**Thunderstorm with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦**Strong Winds (speed 40-50 kmph gusting to 60 kmph)** over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**29 June (Day 5): ♦ Heavy to Very Heavy Rainfall** at isolated places over Assam & Meghalaya and **Heavy Rainfall** at isolated places over East Madhya Pradesh, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦**Thunderstorm with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**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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**Table-1**  
**5 Day Rainfall Forecast (MID-DAY)**  
**25-June-2021**

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

**% Station Reporting Rainfall**

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

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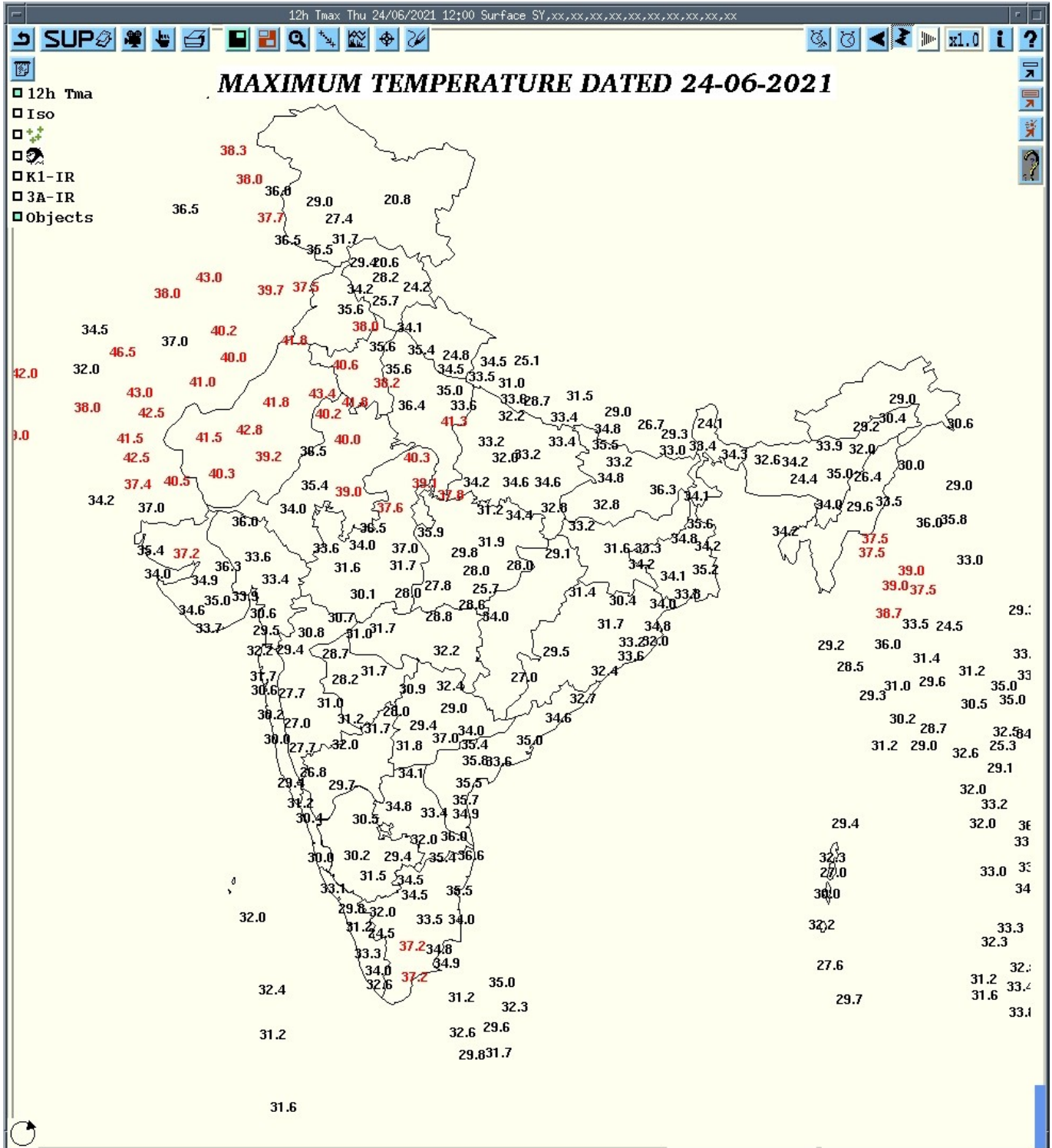
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Fig. 2: Maximum Temperature during past 24 hours



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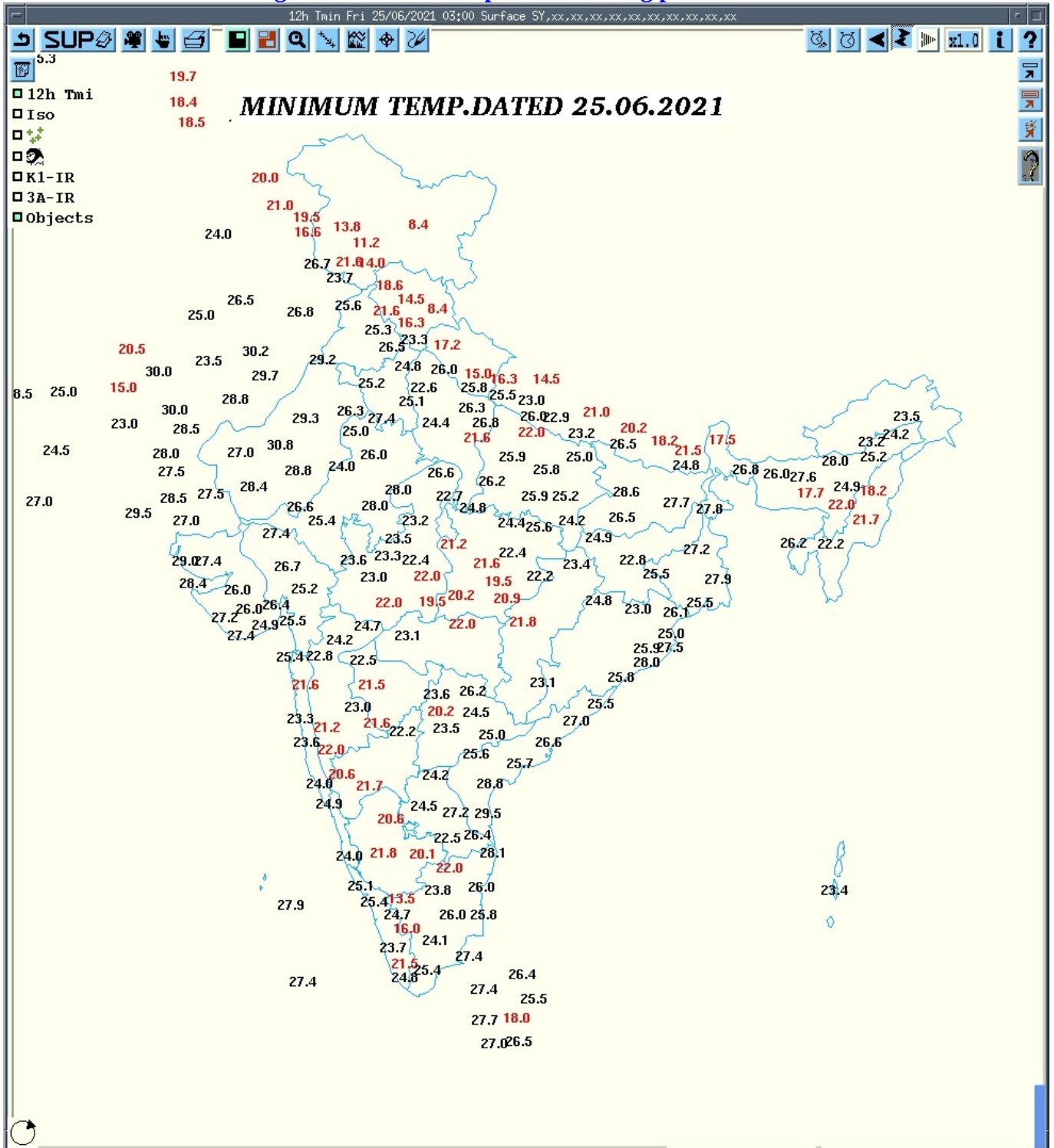
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(Created by the MetInfo team 16/7/20)



Fig. 3: Minimum Temperature during past 24 hours



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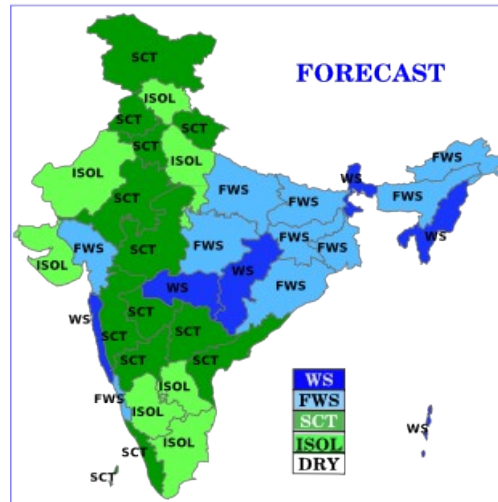
(Created by the MetInfo@1975)







## Friday 25 June 2021



**25 June (Day 1): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over East Madhya Pradesh and Chhattisgarh and **Heavy Rainfall** at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region and Konkan & Goa.

♦**Thunderstorm with lightning & gusty winds (speed 40-50 kmph)** very likely at isolated places over West Rajasthan and Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Telangana and with **lightning** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast; **Squally weather (speed 40-50 kmph gusting to 60 kmph)** over south Andaman sea. Fishermen are advised not to venture into these areas.

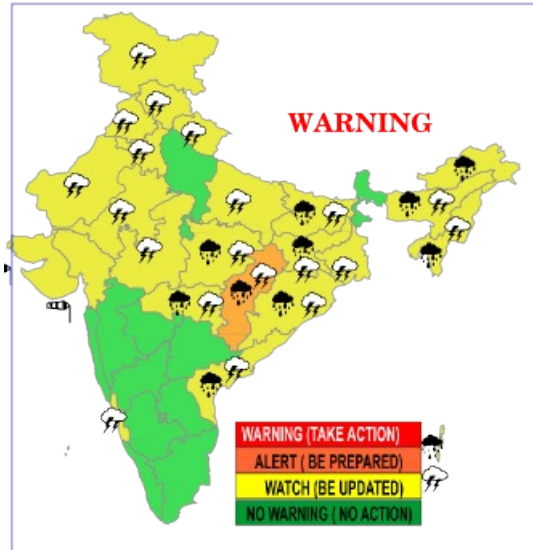
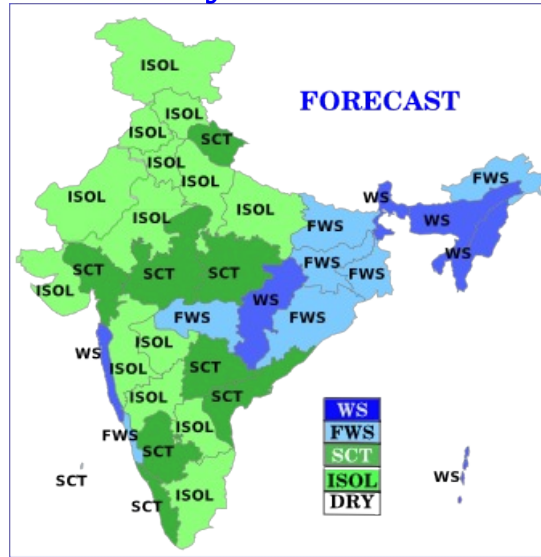
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## Saturday 26 June 2021



**26 June (Day 2): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over Chhattisgarh and Assam & Meghalaya; **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Andaman & Nicobar Islands and with **lightning** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest, Westcentral and North Arabian Sea and along & off Gujarat coast. Fishermen are advised not to venture into these areas.

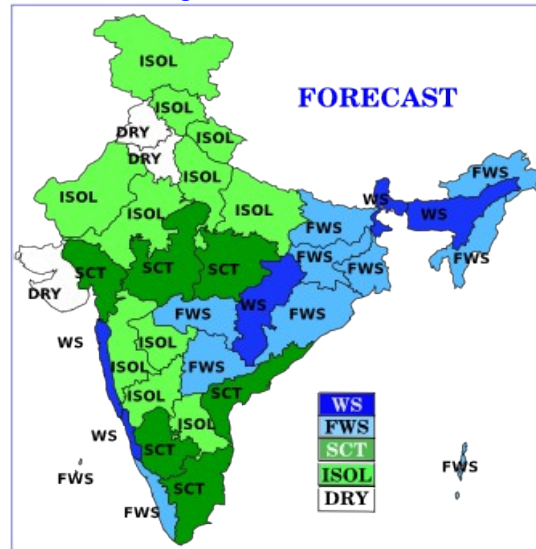
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## Sunday 27 June 2021



**27 June (Day 3): ♦ Heavy Rainfall** very likely at isolated places over Chhattisgarh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Telangana, Coastal & South Interior Karnataka and Coastal Andhra Pradesh & Yanam.

**♦Thunderstorm with lightning** very likely at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Coastal Andhra Pradesh & Yanam.

**♦ Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

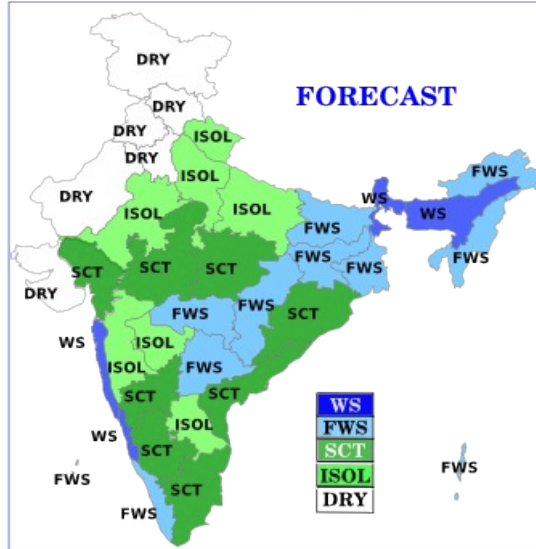
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## Monday 28 June 2021



**28 June (Day 4): ♦Heavy to Very Heavy Rainfall** at isolated places over Assam & Meghalaya and **Heavy Rainfall** at isolated places over Vidarbha, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦**Thunderstorm with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦**Strong Winds (speed 40-50 kmph gusting to 60 kmph)** over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

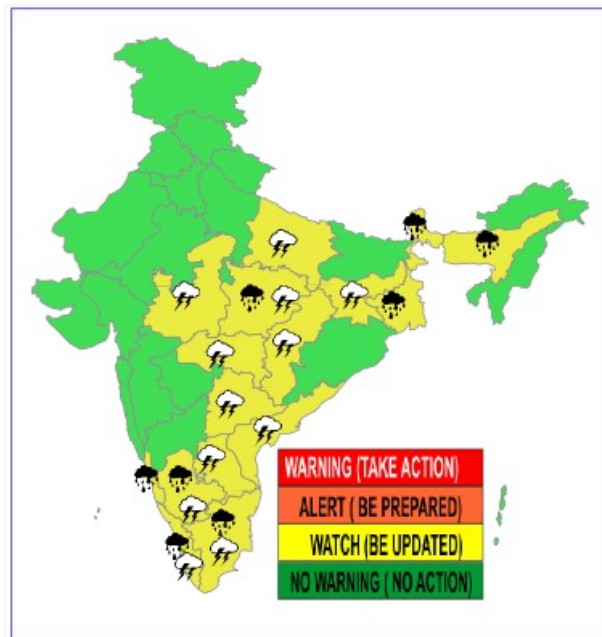
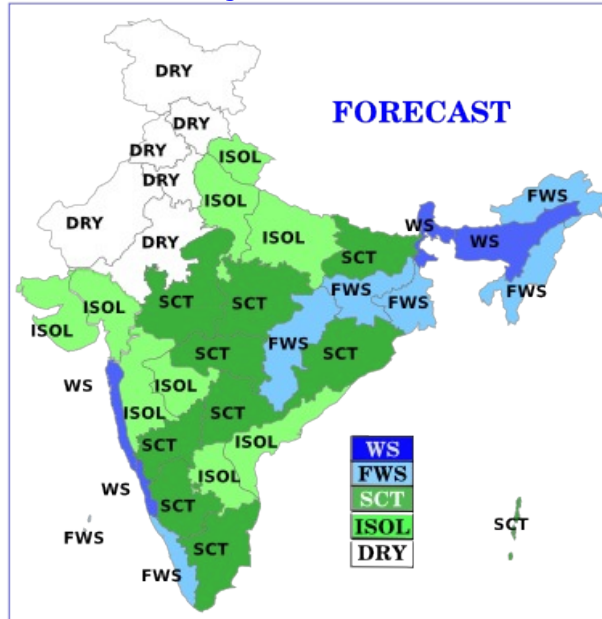
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## Tuesday 29 June 2021



**29 June (Day 5): ♦ Heavy to Very Heavy Rainfall** at isolated places over Assam & Meghalaya **and Heavy Rainfall** at isolated places over East Madhya Pradesh, West Bengal & Sikkim, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

♦**Thunderstorm with lightning** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

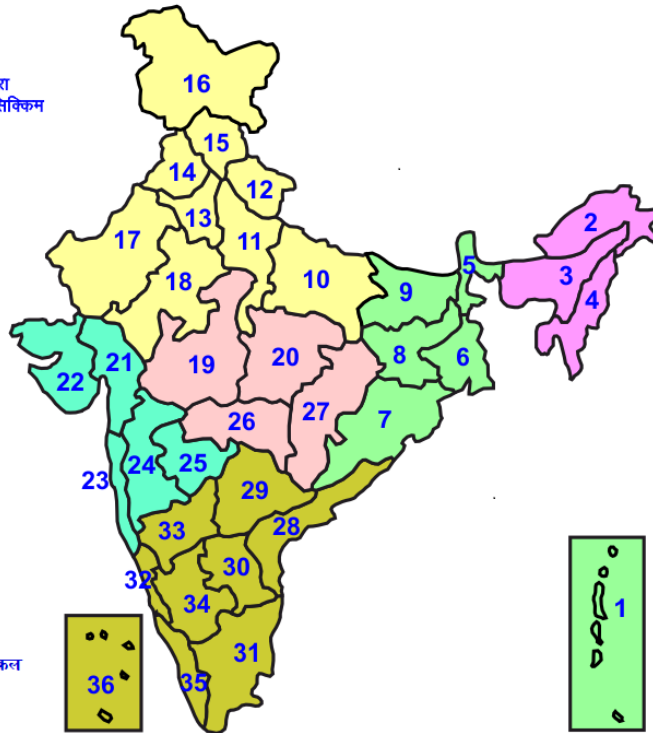
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(Circle as the National since 1975)

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

## 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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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## 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



Rain/ Snow \*

Heavy: 64.5 to 115.5 mm/cm \*  
Very Heavy: 115.6 to 204.4 mm/cm \*  
Extremely Heavy: > 204.4 mm/cm \*



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions

(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature  $\geq 45^{\circ}\text{C}$ .

Severe Heat Wave: When actual maximum temperature  $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is  $> 4.5^{\circ}\text{C}$  from normal. Heat Wave may be described provided maximum temperature  $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Warm Night: When minimum temperature departure  $> 6.4^{\circ}\text{C}$ .



Cold Wave

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions.

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\geq -6.5^{\circ}\text{C}$

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

Cold Wave : When Minimum Temperature is  $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is  $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is  $\leq -4.5^{\circ}\text{C}$  or actual Minimum Temperature is  $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station  $\leq 10^{\circ}\text{C}$  for plains and  $\leq 0^{\circ}\text{C}$  for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Day: Maximum Temperature Departure from normal  $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility  $< 1\text{km}$

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

Air temperature  $\leq 4^{\circ}\text{C}$  ( over Plains)



Squall

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



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)

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

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

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