



Wednesday 23 June 2021

MID-DAY

Time of Issue: 1330 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.
- ◆ Further advance of southwest monsoon into remaining parts of Rajasthan, west Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- ◆ Under the influence of lower level wind convergence and monsoonal easterly and southeasterly wind and a trough in westerlies in middle tropospheric levels over the region; fairly widespread widespread rainfall very likely over Odisha, West Bengal & Sikkim, Jharkhand, Chhattisgarh and Bihar during next 5 days. Isolated **Heavy rainfall** also likely over Odisha and Sub Himalayan West Bengal & Sikkim during next 5 days; over Chhattisgarh during 23rd to 25th, over Gangetic West Bengal, southeast Uttar Pradesh, Madhya Pradesh and Jharkhand on 23rd, and over Bihar on 26th & 27th June, 2021. Isolated **Very Heavy Rainfall** also likely over Odisha on 25th and Chhattisgarh on 23rd, June, 2021.
- ◆ Under the influence of strengthening of moist southwesterly winds; fairly widespread to widespread rainfall is likely over Northeast India during next 5 days. Isolated **heavy rainfall** very likely over Assam, Meghalaya and Nagaland, Manipur, Tripura, Mizoram during next 5 days and over Arunachal Pradesh on 25th June, 2021.
- ◆ **Moderate to severe thunderstorms** accompanied by frequent **cloud to ground lightning** very likely over Chhattisgarh and Madhya Pradesh 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** Chhattisgarh, Arunachal Pradesh, Andaman & Nicobar Islands, Odisha, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka; **at many places over** Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Bihar, Jharkhand, East Madhya Pradesh and Vidarbha; **at a few places over** West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh and Kerala & Mahe and **at isolated places over** Rajasthan, Uttar Pradesh, Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Saurashtra & Kutch, North Interior Karnataka, Marathwada, Tamil Nadu, Puducherry & Karaikal, Telangana and Rayalaseema.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today)(7 cm or more): Marsaghai-23; Kantapada-19; Nimpara-16; Bhograi-13; Jaleswar, Kujanga and Balipatna-12 each; Bhubaneswar and Gautampura-11each; Dhar, Salepur, Miao, Khowang-10; Rajghat, Alipingal, Waraseoni, Amraghat-9 each; Gangtok, Kendrapara, Kesinga-8; Adilabad, Ganeshpur, Niyali, Hatpiplaya, Kalapipal, Balaghat, Kumargram, Korba, Hut Bay, Mahua-7 each.
- ◆ **Heavy to very Heavy** with isolated **Extremely Heavy Rainfall** observed at isolated places over Odisha and **Heavy rainfall** at isolated places over Madhya Pradesh, Saurashtra & Kutch, Chhattisgarh, Sub-Himalayan West Bengal, Arunachal Pradesh, Assam & Meghalaya, East Rajasthan, Andaman & Nicobar Islands and Telangana.
- ◆ **Thunderstorm observed** (from 1730 hours IST of yesterday to 0830 hours IST of today): **at a few places** over Chhattisgarh; **at isolated places** over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Uttar Pradesh, East Rajasthan, Jharkhand, Madhya Pradesh, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Kerala, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Vidarbha, Rayalseema, Tamilnadu, Puducherry & Karaikal, Telangana and Andaman & Nicobar Islands.
- ◆ **Maximum Temperature Departures as on 22-06-2021:** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at many places over Punjab, Konkan & Goa and Kerala & Mahe; at a few places over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Saurashtra & Kutch; at isolated places over Madhya Maharashtra and Andaman & Nicobar Islands. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Odisha; **below normal (-1.6°C to -3.0°C)** at many places over Gujarat region; at a few places over Bihar, East Uttar Pradesh, Madhya Pradesh and Gangetic West Bengal and **near normal** over rest parts of the country. Yesterday, The **highest maximum temperature** of **42.2°C** was reported at Ganganagar (**West Rajasthan**).
- ◆ **Minimum Temperature Departures as on 23-06-2021:** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, South Interior Karnataka, Coastal Andhra Pradesh, Telangana and Rayalseema. They are **below normal (-1.6°C to -3.0°C)** at a few places over Odisha and Chhattisgarh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, East Rajasthan, Gujarat Region, East Madhya Pradesh, Vidarbha, Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. The lowest **minimum temperature** of **19.4°C** reported at Seoni (**East Madhya Pradesh**) over the plains of the country.

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

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(Circle as the National office 4670)



### 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.
- ◆ Further advance of southwest monsoon into remaining parts of Rajasthan, West Uttar Pradesh, Haryana, Chandigarh & Delhi and Punjab is likely to be slow as large scale features are not favourable and the forecast wind pattern by the numerical models do not indicate any favourable condition for sustained rainfall over the region during the forecast period.
- ◆ The cyclonic circulation over northwest Bihar & adjoining East Uttar Pradesh now lies over southwest Bihar & adjoining southeast Uttar Pradesh extending upto 5.8 km above mean sea level tilting southwestwards with height.
- ◆ A trough runs from above cyclonic circulation over southwest Bihar & adjoining southeast Uttar Pradesh to south Chhattisgarh across Jharkhand between 3.1 km & 5.8 km above mean sea level.
- ◆ The trough at mean sea level now runs from north Punjab to northeast Bay of Bengal across Haryana, West Uttar Pradesh, north Jharkhand and Gangetic West Bengal.
- ◆ The Western Disturbance now seen as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 70°E to the north of Lat 25° N.
- ◆ The cyclonic circulation over Northeast & adjoining Northwest Arabian Sea persists and now seen at 5.8 km above mean sea level.
- ◆ The cyclonic circulation over south Bangladesh and adjoining northeast Bay of Bengal between 2.1 km & 7.6 km above mean sea level tilting southwestwards with height has become less marked.
- ◆ The off-shore trough at mean sea level from Karnataka coast to Kerala coast has become less marked.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 28th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in temperatures over the country during next 5 days.

### Weather Outlook for subsequent 2 days from 28th June 2021 to 30th June 2021

- ◆ Fairly widespread to widespread rainfall with heavy falls likely over most parts of Northeast, East India, Telangana and Islands, scattered to fairly widespread rainfall along the west coast and isolated to scattered rainfall likely over parts of Western Himalayan Region, East Uttar Pradesh, Central, West India and remaining parts of peninsular India.
- ◆ 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 \*

**23 June (Day 1): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over Chhattisgarh and **Heavy Rainfall** at isolated places over southeast Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, north Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Squally Weather (**speed 40-50 kmph**) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

**24 June (Day 2): ♦ Heavy Rainfall** very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya.

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

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Squally Weather (**speed 40-50 kmph gusting to 60 kmph**) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

**25 June (Day 3): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over Odisha and **Heavy Rainfall** at isolated places over Chhattisgarh, Sub-Himalayan West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with **lightning** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Arunachal Pradesh, 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 and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

**26 June (Day 4): ♦ Heavy Rainfall** likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with **lightning** at isolated places over Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

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

**27 June (Day 5): ♦ Heavy Rainfall** likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning** likely at isolated places over Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** likely 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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(Created by the National Press 4875)



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

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

**% 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		

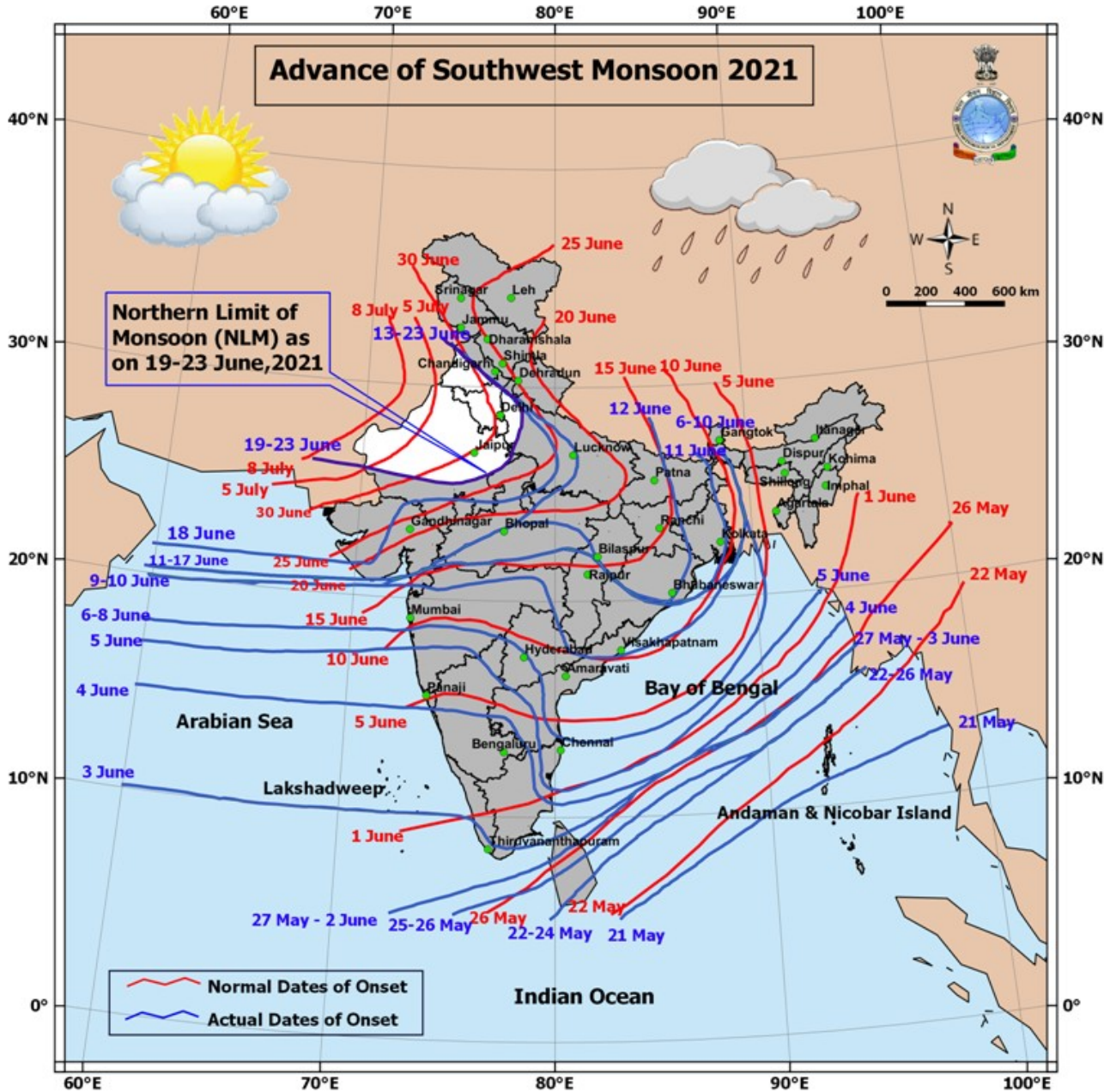
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(Circle as the National flag 100%)





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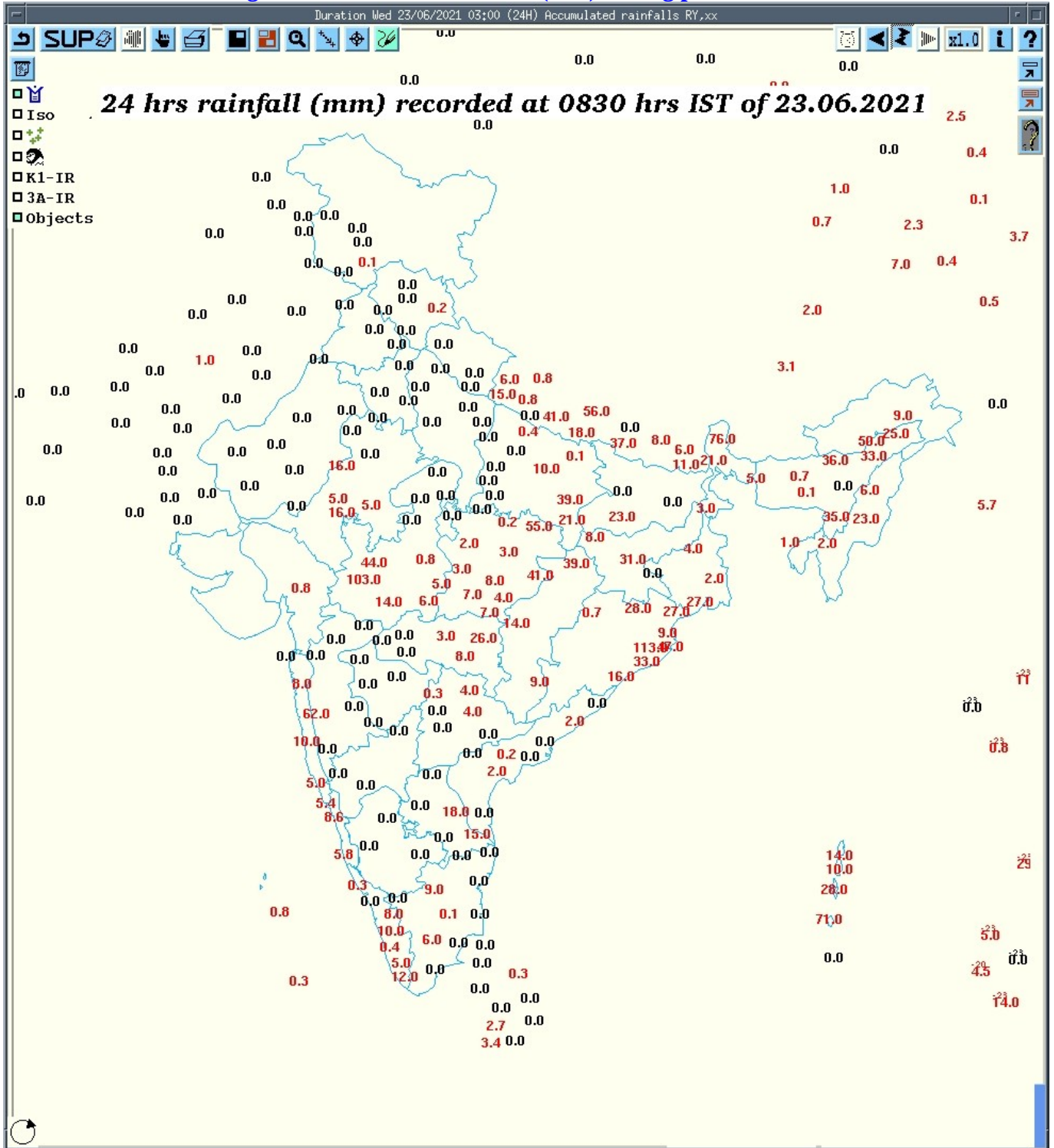
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**Fig. 1: Accumulated Rainfall (mm) during past 24 hours**



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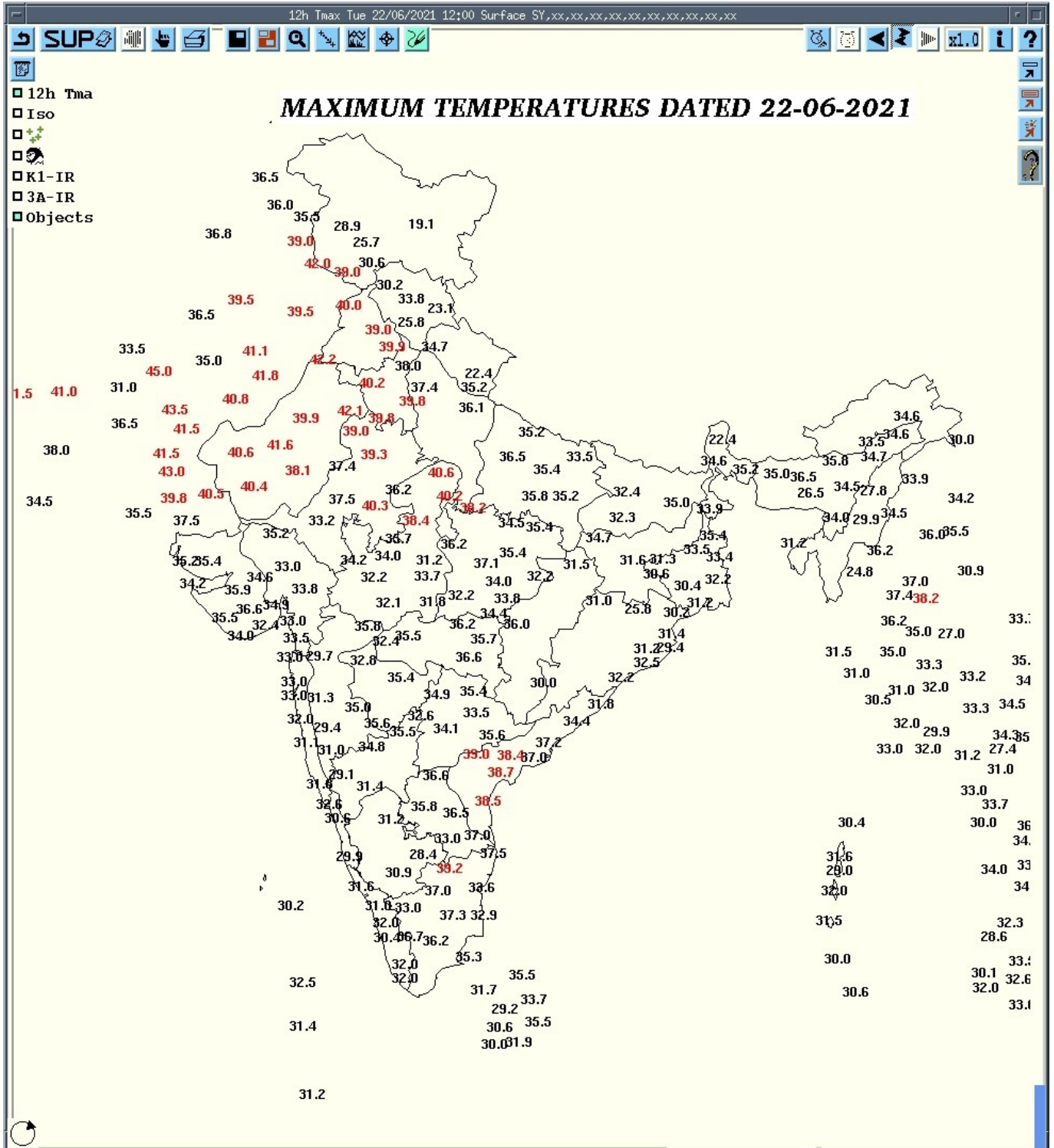
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Fig. 2: Maximum Temperature during past 24 hours

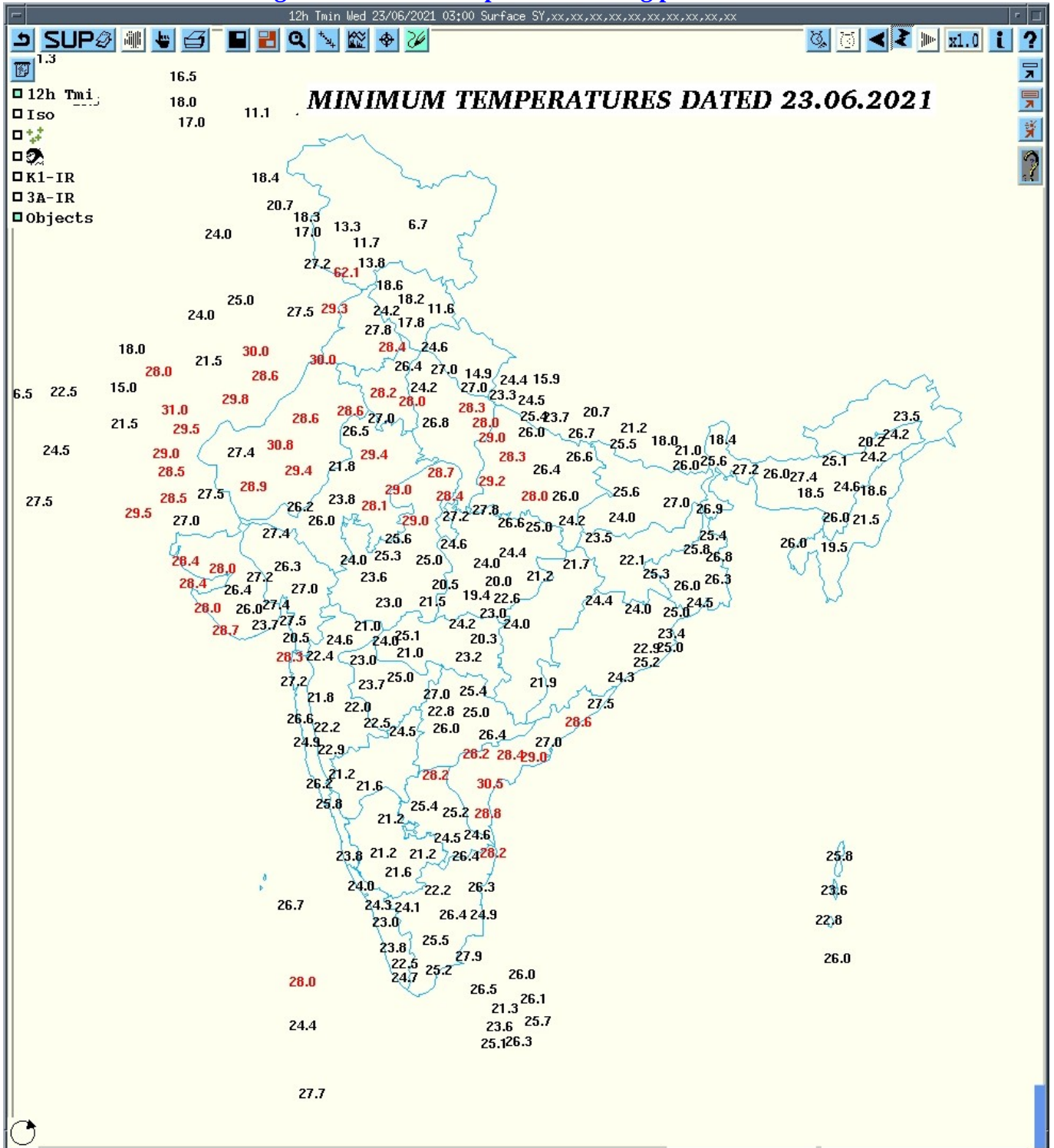


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Fig. 3: Minimum Temperature during past 24 hours



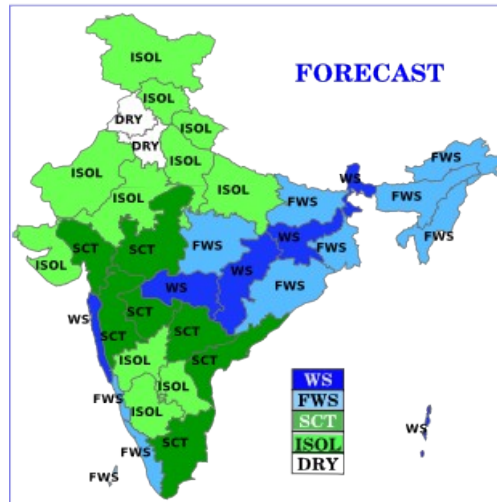
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(Copies to the Meteorologist (GPO))







## Wednesday 23 June 2021



**23 June (Day 1): ♦ Heavy to Very Heavy Rainfall** very likely at isolated places over Chhattisgarh and **Heavy Rainfall** at isolated places over southeast Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana, north Tamilnadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Squally Weather (**speed 40-50 kmph**) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

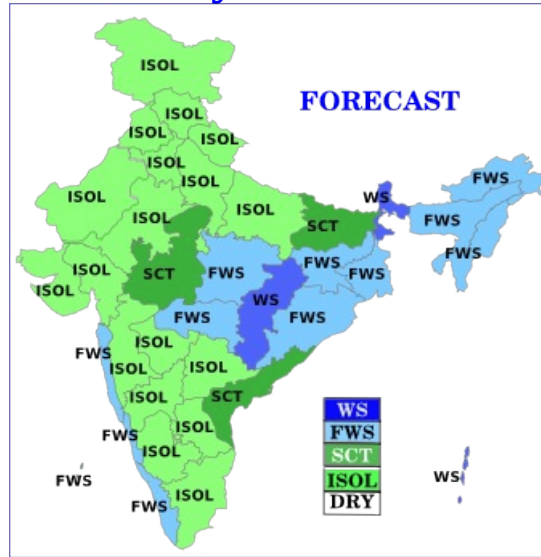
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## Thursday 24 June 2021



**24 June (Day 2): ♦ Heavy Rainfall** very likely at isolated places over East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal, Odisha, Andaman & Nicobar Islands and Assam & Meghalaya.

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

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest and Westcentral Arabian Sea. Squally Weather (**speed 40-50 kmph gusting to 60 kmph**) over Westcentral Bay of Bengal along & off Andhra Pradesh coast. Fishermen are advised not to venture into these areas.

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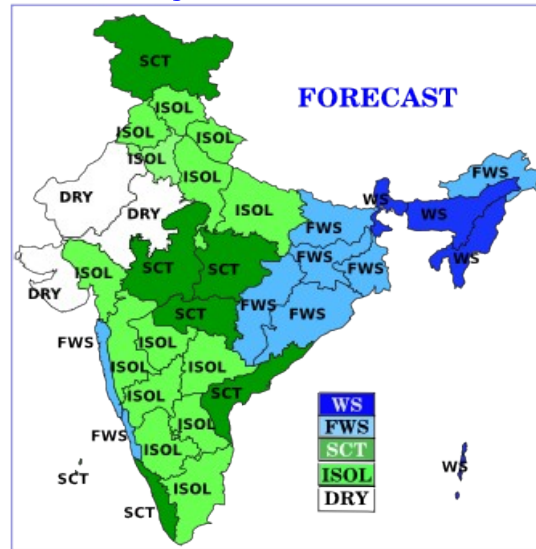
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## Friday 25 June 2021



**25 June (Day 3):** ♦ **Heavy to Very Heavy Rainfall** very likely at isolated places over Odisha and **Heavy Rainfall** at isolated places over Chhattisgarh, Sub-Himalayan West Bengal, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with **lightning** at isolated places over East Madhya Pradesh, Vidarbha, Chattisgarh, Odisha, Arunachal Pradesh, 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 and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

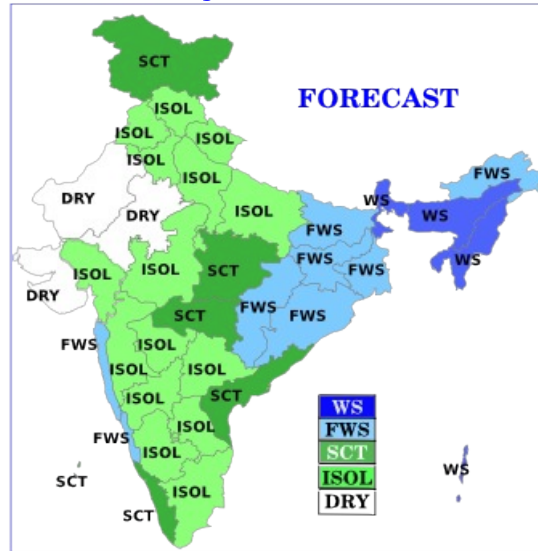
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## Saturday 26 June 2021



**26 June (Day 4): ♦ Heavy Rainfall** likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab and Haryana, Chandigarh & Delhi and with **lightning** at isolated places over Chattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

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

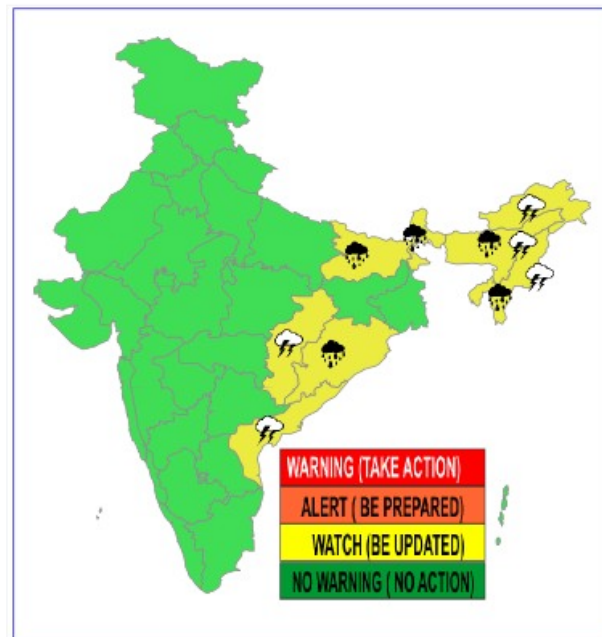
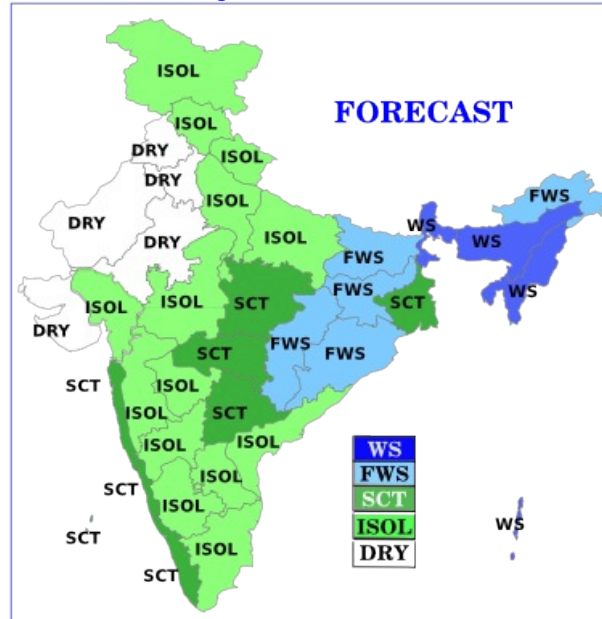
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(Circle as the Nation since 1975)

## Sunday 27 June 2021



**27 June (Day 5): ♦ Heavy Rainfall** likely at isolated places over Bihar, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦**Thunderstorm with lightning** likely at isolated places over Chattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** likely 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".

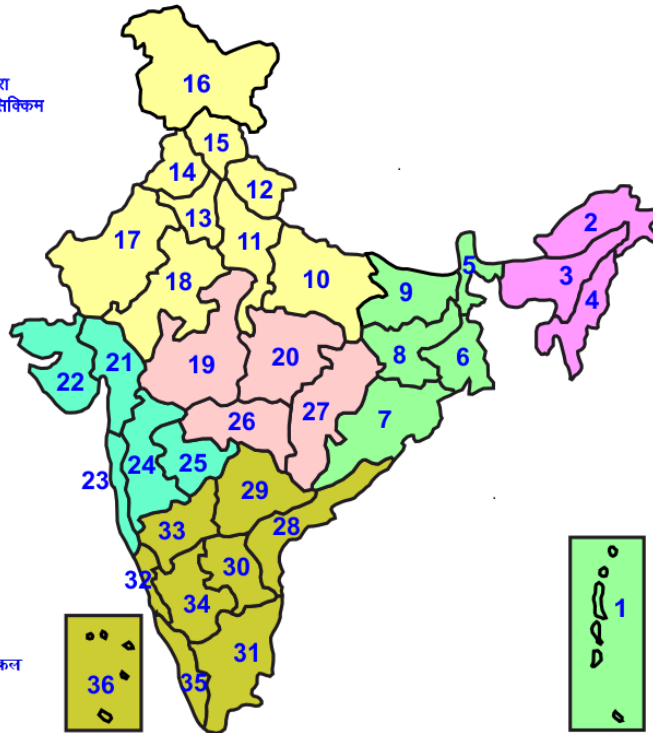
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(Copies to the Media upto 1870)

## 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 एवं 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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(Copies of the Notices (1977))



## 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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(Created by the Meteorology Deptt)