



Saturday 12 June 2021

MID-DAY

Time of Issue: 1400 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The Southwest Monsoon has further advanced into remaining parts of Northwest Bay of Bengal some more parts of Odisha, most parts of West Bengal and some parts of Jharkhand and Bihar. The Northern Limit of Monsoon (NLM) passes through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Raisen, Damoh, Umaria, Pendra Road, Bolangir, Bhubaneswar, Baripada, Purulia, Dhanbad, Dharbhanga and Lat. 27°N/85.0°E. Conditions are favourable for further advance of southwest monsoon into some more parts of Madhya Pradesh, remaining parts Chhattisgarh, Odisha, West Bengal, Jharkhand and Bihar and some parts of east Uttar Pradesh during next 24 hours.
- ◆ The **Low Pressure Area** now lies over northwest Bay of Bengal and adjoining coastal areas of West Bengal and North Odisha. Associated cyclonic circulation extends upto mid-tropospheric levels tilting southwestwards with height. It is likely to become more marked and move west-northwestwards across Odisha, Jharkhand and North Chhattisgarh during next 2-3 days.
- ◆ An east-west trough at lower tropospheric levels runs from south Punjab to center of low pressure area over Northwest Bay of Bengal and adjoining coastal areas of West Bengal and North Odisha. The east-west trough is very likely to persist during next 3-4 days. In addition, strong southwesterly winds are prevailing along the west coast at lower levels and an off-shore trough lies off the west coast. These conditions are likely to persist during next 4-5 days.
- ◆ Under their influence; fairly widespread to widespread rainfall activity with isolated **heavy to very heavy falls** very likely over Odisha, Chhattisgarh, East Madhya Pradesh, Vidarbha, Telangana during next 3-4 days. Fairly widespread to widespread rainfall with isolated **heavy falls** over West Bengal & Sikkim, Bihar, Jharkhand, Uttar Pradesh and Uttarakhand during next 4-5 days. Widespread rainfall activity with **heavy to very heavy falls** over coastal & adjoining Ghats districts of Maharashtra and Goa and Karnataka during next 5 days. Isolated **extremely heavy falls** also very likely over Konkan & Goa during 12th to 15th and over Madhya Maharashtra on 14th & 15th, June, 2021. Isolated **heavy rainfall** over Kerala during 12th to 15th.
- ◆ Moderate to severe thunderstorms are likely over Odisha, Jharkhand, Bihar, Chhattisgarh, Uttar Pradesh, Punjab, Haryana, Northwest Indian Himalayas and will be accompanied by frequent cloud to ground lightning and strong gusty winds during next 4-5 days. This may cause injuries leading to casualties to people and animals working outdoors.

Main Weather Observations

- ◆ **Rain/Thundershowers observed** ((from 0830 hours IST yesterday to 0830 hours IST of today): **at most places over** Kerala & Mahe, Konkan & Goa, Uttarakhand, Vidarbha, Chhattisgarh, Himachal Pradesh, Coastal Karnataka, Bihar, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim; **at many places over** Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Gangetic West Bengal, Jharkhand, East Madhya Pradesh, West Uttar Pradesh and Telangana : **at a few places over** Arunachal Pradesh, East Uttar Pradesh, Punjab, Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Lakshadweep; **at isolated places over** Gujarat State, Rayalseema, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Haryana, Chandigarh & Delhi.
- ◆ **Rainfall recorded** (from 0830 hours IST yesterday to 0830 hours IST of today) (7 cm or more): Hamirpur and Thane-17 each; Palghar and Rajapur-14 each; Mawsynram and Bhiwandi-13 each; Bhalsua-12; Vasal, Tbla, Santacruz, Deori, Cherrapunji and Nusrulganj- 11 each; Adhwada, Mhasla, Vikramgad, Guhagarh, Harnal, Devgad, and Kollur- 10 each; Loharkhet, Ratnagiri, Colaba, Valbhavwadi, Soro and Kankavil -9 each; Shirali, Ballarpur, Rehti, Rehti and Alipurduar-8 each; Ghosi, Govindpur, Sonhat, Pachmarhi, Tihidi, Aizwal and Seoni Malwa -7 each.
- ◆ **Heavy Rainfall recorded** (from 0830 hours IST yesterday to 0830 hours IST of today): **Heavy rainfall** at isolated places over Konkan.
- ◆ **Thunderstorm observed** (from 0830 hours IST yesterday to 0830 hours IST of today): at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Haryana, Odisha, Uttarakhand, Punjab, Himachal Pradesh, Gangetic West Bengal, Madhya Pradesh, Coastal Andhra Pradesh, Uttar Pradesh, Telangana, Kerala, Coastal Karnataka, Vidarbha, Bihar, Jharkhand and Konkan & Goa.
- ◆ **Maximum Temperature Departures as on 11-06-2021:** Maximum temperature were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over West Rajasthan; **above normal (1.6°C to 3.0°C)** at many places over Kerala & Mahe, Tamilnadu, Coastal Karnataka; at a few places over Andaman & Nicobar Islands and at isolated places over Haryana, Chandigarh & Delhi, Saurashtra & Kutch, Konkan & Goa and South Interior Karnataka. They were **markedly below normal (-5.1°C and less)** at most places over Chhattisgarh; at a few places over Coastal Andhra Pradesh and Telangana and at isolated places over Odisha, Vidarbha and East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Marathwada and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Madhya Maharashtra and Tamilnadu; **below normal (-1.6°C to -3.0°C)** at a few places over Punjab, Coastal Andhra Pradesh & Yanam and at isolated places over Himachal Pradesh, Rayalseema and Coastal Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 44.2°C was reported at **Ganganagar (West Rajasthan)**.
- ◆ **Minimum Temperature Departures as on 12-06-2021:** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at few places over Rajasthan; and **above normal (1.6°C to 3.0°C)** at many places over Himachal Pradesh and isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya and Coastal Andhra Pradesh. They were **markedly below normal (-5.1°C and less)** at many places over east Madhya Pradesh and few places over west Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at few places over east Uttar Pradesh and isolated places over Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at many places over Bihar and isolated places over Chhattisgarh and Jharkhand and **near normal** over rest of the country. Today, the lowest minimum temperature of 18.6°C is reported at **Washim (Vidharbha)** over the plains of the country.

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Meteorological Analysis (Based on 0830 hours IST)

- ◆ The Southwest Monsoon has further advanced into remaining parts of Northwest Bay of Bengal some more parts of Odisha, most parts of West Bengal and some parts of Jharkhand and Bihar.
- ◆ The Northern Limit of Monsoon (NLM) passes through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Raisen, Damoh, Umaria, Pendra Road, Bolangir, Bhubaneswar, Baripada, Purulia, Dhanbad, Dharbhanga and Lat. 27°N/85.0°E.
- ◆ Conditions are favourable for further advance of southwest monsoon into some more parts of Madhya Pradesh, remaining parts Chhattisgarh, Odisha, West Bengal, Jharkhand and Bihar and some parts of east Uttar Pradesh during next 24 hours.
- ◆ The **Low Pressure Area** over Northwest Bay of Bengal and adjoining Odisha & Gangetic West Bengal coasts now lies over northwest Bay of Bengal and adjoining coastal areas of West Bengal and North Odisha. Associated cyclonic circulation extends upto mid-tropospheric levels tilting southwestwards with height. It is likely to become more marked and move west-northwestwards across Odisha, Jharkhand and North Chhattisgarh during next 2-3 days.
- ◆ The trough at mean sea level now runs from south Punjab to center of low pressure area over Northwest Bay of Bengal and adjoining coastal areas of West Bengal and north Odisha across south Haryana, west Uttar Pradesh, North East Madhya Pradesh, North Chattisgarh and Jharkhand. It extends upto 1.5 km above mean sea level.
- ◆ An East-West trough between 3.1 km and 5.8 km runs from the cyclonic circulation associated with low pressure area to west central Arabian Sea across South Chattisgarh, Vidharbha, North Madhya Maharashtra and South Gujarat Region.
- ◆ The cyclonic circulation over Westcentral Arabian Sea between 3.1 km & 5.8 km above mean sea level has merged with the above trough.
- ◆ The off shore trough at mean sea level now runs from north Maharashtra coast to Lakshadweep area.
- ◆ A trough in mid tropospheric westerlies runs with its axis at 5.8 km above mean sea level roughly along long. 75°E to the north of lat. 30° N.
- ◆ The cyclonic circulation over south Uttar Pradesh extending upto 1.5 km above mean sea level has become less marked.
- ◆ The trough from yesterday's cyclonic circulation over Westcentral Arabian Sea to central parts of Konkan at 5.8 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over north Pakistan & adjoining Punjab between 1.5 & 2.1 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 17th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Fall by 4-6°C in maximum temperature over most parts of Northwest India during next 3-4 days.
- ◆ No significant change in maximum temperature over rest parts of the country during next 4-5 days.

Weather Outlook for subsequent 2 days from 17th June 2021 to 19th June 2021

- ◆ Fairly widespread to widespread rainfall likely over most parts of the country excluding most parts of northwest India and Tamil Nadu, Puducherry & Karaikal where isolated to scattered rainfall activity is likely.
- ◆ Isolated heavy to very heavy rainfall likely over parts of Central, East & Northeast India and along the West Coast.

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Weather Warning during next 5 days *



12 June (Day 1): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Marathwada, Lakshadweep, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy Rainfall** at a few places with **Very Heavy Falls** at isolated places over Chhattisgarh; **Heavy to Very Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Uttarakhand, East Madhya Pradesh, Vidarbha and Telangana and **Heavy Rainfall** at isolated places over Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Kerala & Mahe, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

13 June (Day 2): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Lakshadweep, Coastal & North Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Odisha, Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Coastal Karnataka and Telangana and **Heavy Rainfall** at isolated places over Gangetic West Bengal, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Marathwada, Kerala & Mahe, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala coasts. Fishermen are advised not to venture into these areas.

14 June (Day 3): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** at isolated places over Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over Odisha, East Madhya Pradesh, Chhattisgarh and Coastal Karnataka and **Heavy Rainfall** at isolated places over West Bengal & Sikkim, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Kerala & Mahe, Interior Karnataka and Telangana.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and **speed reaching 40-50 kmph** over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala coasts. Fishermen are advised not to venture into these areas.

15 June (Day 4): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh and Kerala & Mahe and with **lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** at isolated places likely over Konkan & Goa and Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over Jharkhand, Kerala & Mahe and Coastal & South Interior Karnataka and **Heavy Rainfall** at isolated places over West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha and North Interior Karnataka.

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

16 June (Day 5): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places likely over Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh and Kerala & Mahe and with **lightning** at isolated places over Jharkhand, Bihar, Arunachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at isolated places likely over East Uttar Pradesh, Kerala & Mahe and Coastal & South Interior Karnataka and **Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and North Interior Karnataka.

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

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

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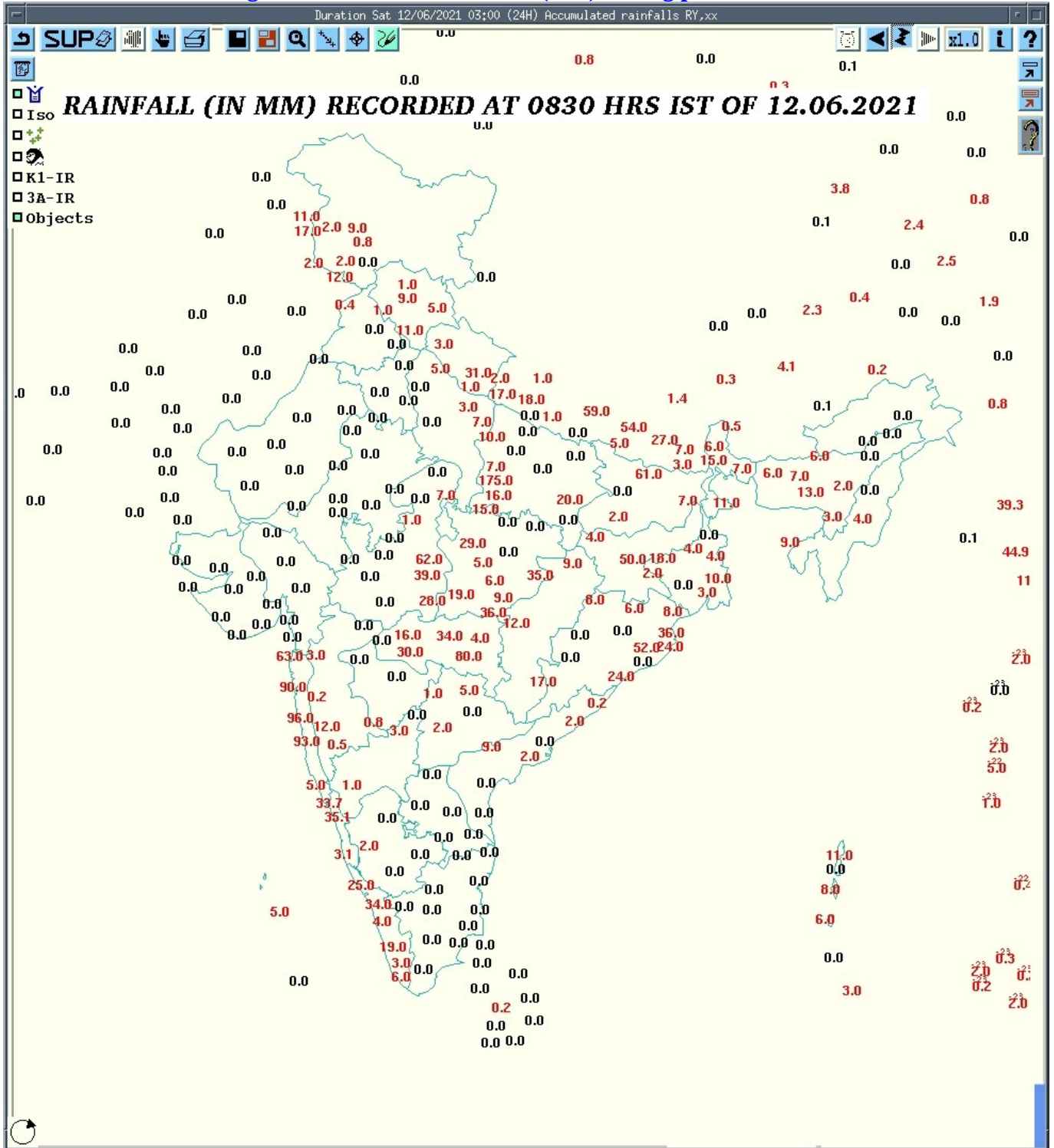
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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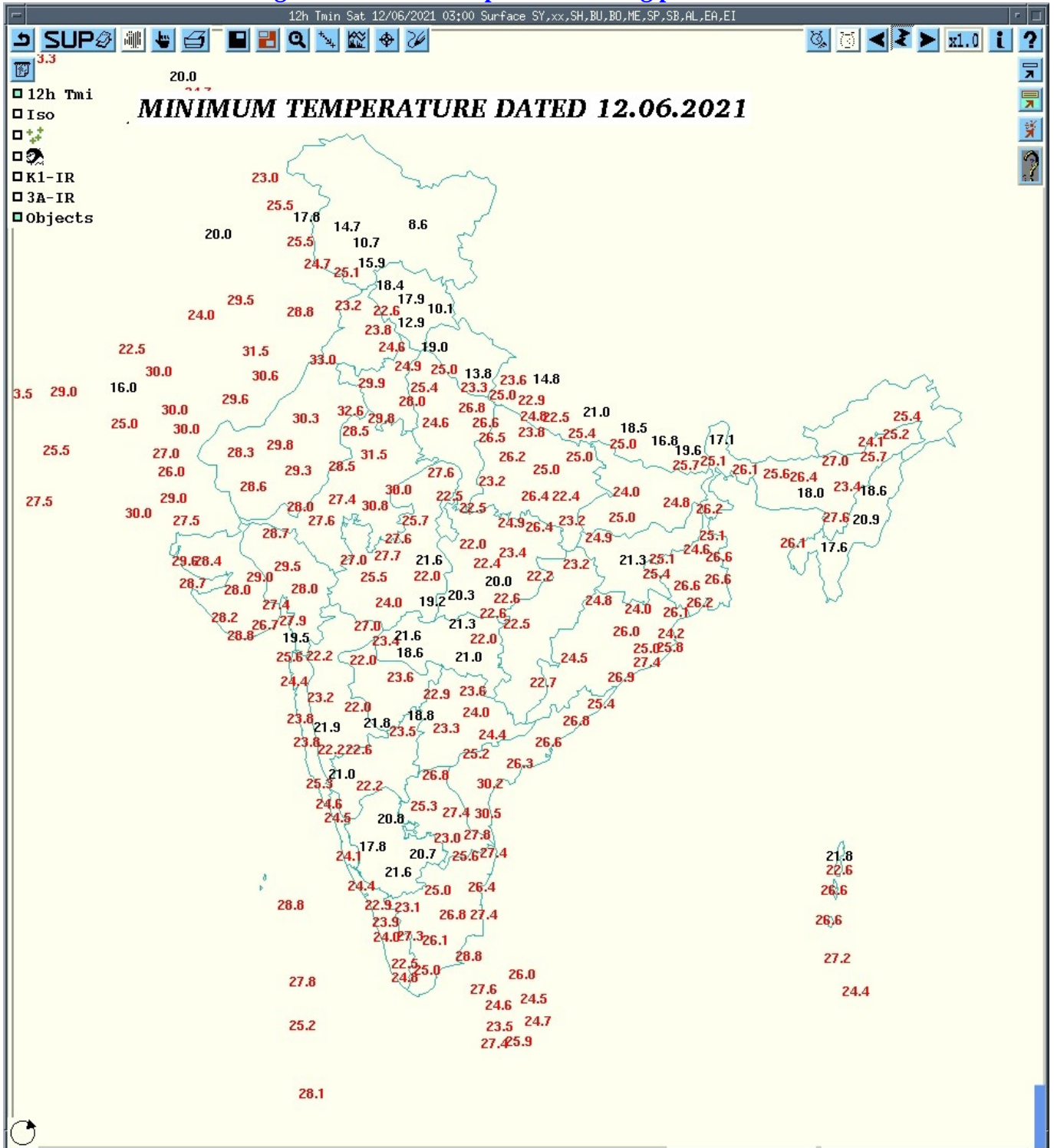
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Fig. 3: Minimum Temperature during past 24 hours



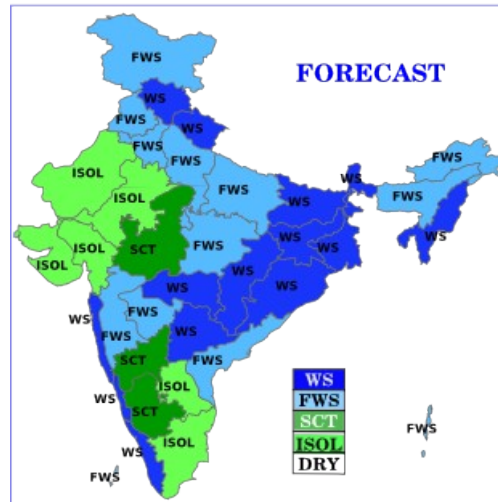
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12 June (Day 1): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Marathwada, Lakshadweep, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy Rainfall** at a few places with **Very Heavy Falls** at isolated places over Chhattisgarh; **Heavy to Very Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Uttarakhand, East Madhya Pradesh, Vidarbha and Telangana and **Heavy Rainfall** at isolated places over Gangetic West Bengal, Jharkhand, Bihar, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Kerala & Mahe, Coastal Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea and along & off Gujarat-Maharashtra coasts. Fishermen are advised not to venture into these areas.

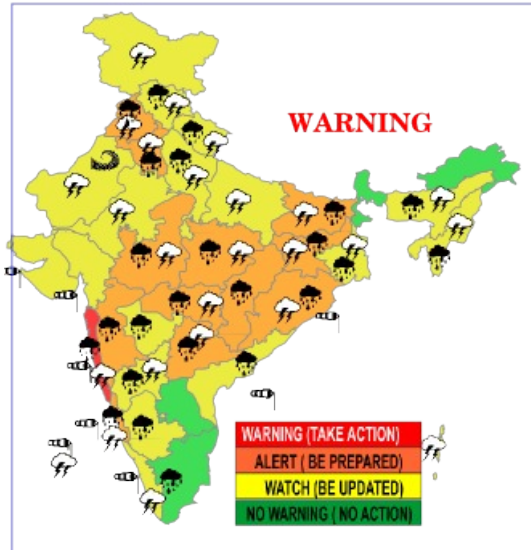
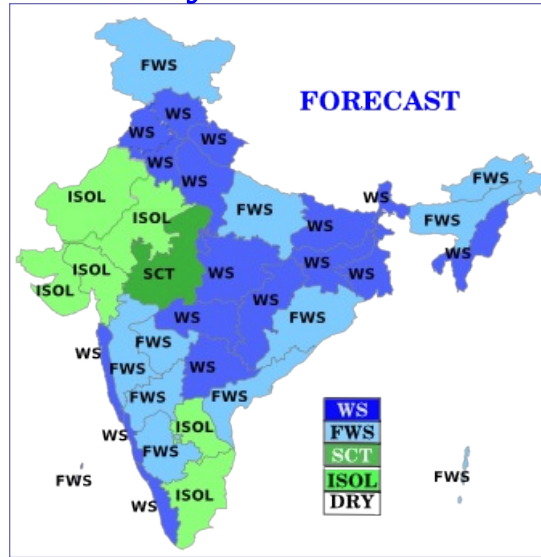
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(Copies of the Met Bulletin 1077)

Sunday 13 June 2021



13 June (Day 2): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Andaman & Nicobar Islands, Gangetic West Bengal, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Lakshadweep, Coastal & North Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Odisha, Madhya Pradesh, Chhattisgarh, Vidarbha, Madhya Maharashtra, Coastal Karnataka and Telangana and **Heavy Rainfall** at isolated places over Gangetic West Bengal, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Marathwada, Kerala & Mahe, Interior Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and speed reaching 40-50 kmph over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala coasts. Fishermen are advised not to venture into these areas.

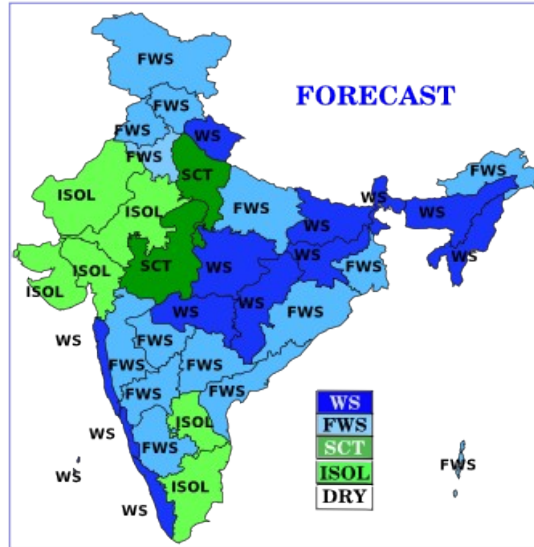
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Monday 14 June 2021



14 June (Day 3): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh, Kerala & Mahe and Telangana and with **lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** at isolated places over Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over Odisha, East Madhya Pradesh, Chhattisgarh and Coastal Karnataka and **Heavy Rainfall** at isolated places over West Bengal & Sikkim, Jharkhand, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, East Uttar Pradesh, West Madhya Pradesh, Vidarbha, Kerala & Mahe, Interior Karnataka and Telangana.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, Central & North Bay of Bengal and along & off north Andhra Pradesh-Odisha-West Bengal coasts and **speed reaching 40-50 kmph** over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala coasts. Fishermen are advised not to venture into these areas.

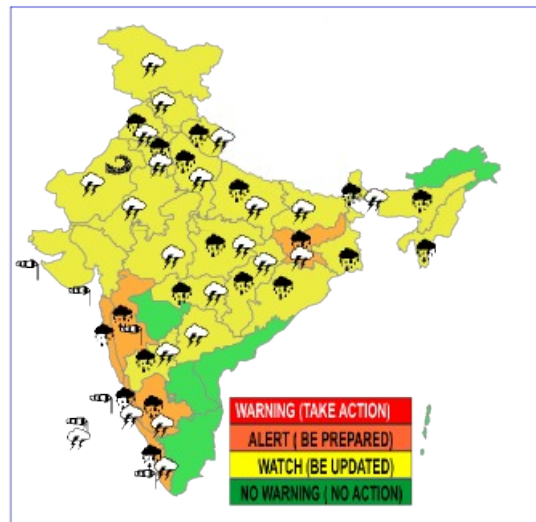
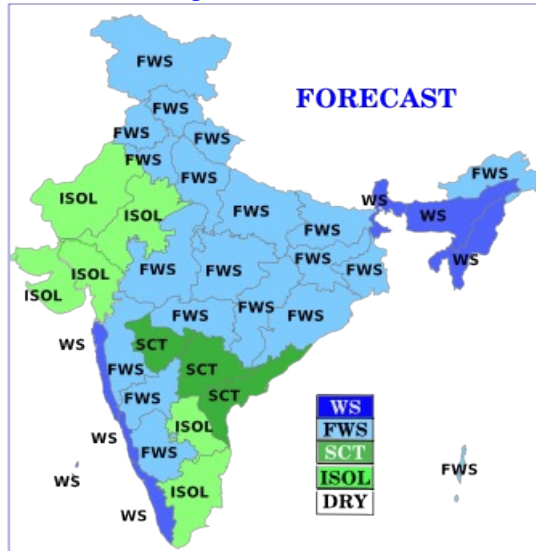
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Tuesday 15 June 2021



15 June (Day 4): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh and Kerala & Mahe and with **lightning** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Bihar, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places likely over Konkan & Goa and Madhya Maharashtra; **Heavy to Very Heavy Rainfall** at isolated places over Jharkhand, Kerala & Mahe and Coastal & South Interior Karnataka and **Heavy Rainfall** at isolated places over West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha and North Interior Karnataka.

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

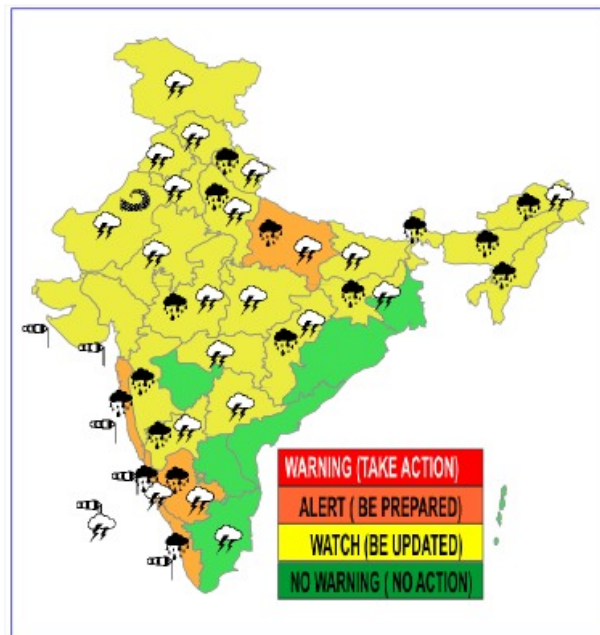
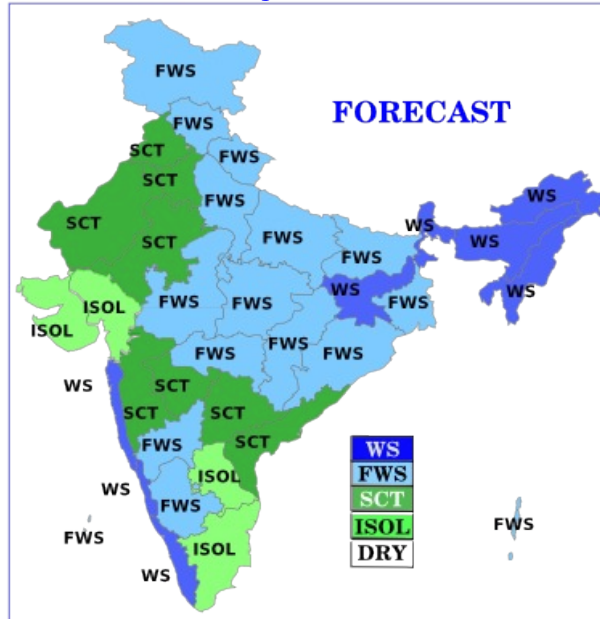
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(Circle as the National flag 497)

Wednesday 16 June 2021



16 June (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over Rajasthan; with **lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Uttar Pradesh and Kerala & Mahe and with **lightning** at isolated places over Jharkhand, Bihar, Arunachal Pradesh, Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Lakshadweep, Karnataka, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 40-50 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall** at isolated places likely over East Uttar Pradesh, Kerala & Mahe and Coastal & South Interior Karnataka and **Heavy Rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra and North Interior Karnataka.

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

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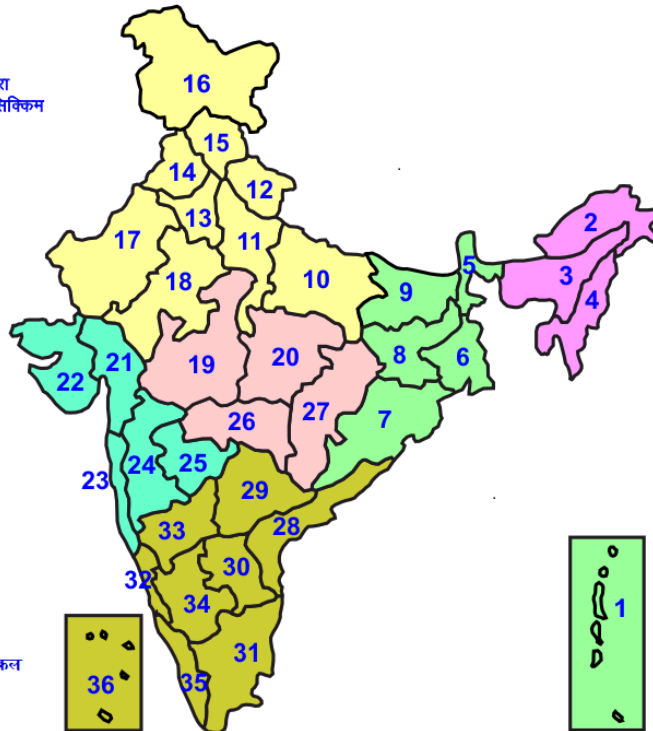
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LEGENDS

- 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

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



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°C to 6.4°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°C

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