

Tuesday 15 June 2021

MID-DAY

Time of Issue: 1430 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Bhopal, Nowgong, Hamirpur, Barabanki, Bareilly, Saharanpur, Ambala and Amritsar.
- ◆ Due to approaching of mid-latitude westerlies winds, further progress of monsoon over remaining parts of northwest India is likely to be slow. The progress of monsoon is being monitored continuously and further update will be provided on daily basis.
- ◆ The **Low Pressure Area** lies over east Uttar Pradesh and adjoining Bihar and associated cyclonic circulation extends upto mid-tropospheric levels.
- ◆ The trough at mean sea level runs from Northwest Rajasthan to northwest Bay of Bengal across Haryana, Southwest Uttar Pradesh, center of low pressure area over east Uttar Pradesh and adjoining Bihar, Jharkhand, Gangetic West Bengal and extends upto 0.9 km above mean sea level .
- ◆ Under the influence of above systems:
 - (i) Fairly widespread to widespread **rainfall with isolated thunderstorm & lightning** over most parts of East, Central & Northeast India during next 4-5 days. Isolated **heavy rainfall** over the region during next 3 days and isolated **extremely heavy falls** also very likely over Bihar on 15th June.
 - (ii) Scattered to fairly widespread **rainfall with isolated thunderstorm & lightning** over most parts of Northwest India during next 2 days and decrease in rainfall activity thereafter except East Uttar Pradesh where fairly widespread to widespread rainfall is likely to continue during next 4-5 days. Isolated **heavy to very heavy rainfall** over East Uttar Pradesh during next 5 days and **extremely heavy rainfall** also very likely over East Uttar Pradesh on 15th June.
- ◆ An offshore trough runs from North Maharashtra coast to North Kerala coast, under its influence Widespread **rainfall with isolated heavy to very heavy falls, thunderstorm & lightning** very likely over south Konkan & Goa, Karnataka and Kerala & Mahe during next 3 days.
- ◆ **Moderate to severe thunderstorms** accompanied by **frequent cloud to ground lightning** and strong gusty winds very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Bihar, Punjab and Haryana, Chandigarh & Delhi on 15th June. 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 Vidharbha, Chattisgarh, Jharkhand, Bihar, West Bengal & Sikkim, Andaman Nicobar Islands, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at **many places** over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, east Uttar Pradesh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Assam & Meghalaya, Telangana, Interior Karnataka; at **a few places** over Himachal Pradesh, Madhya Pradesh, Madhya Maharashtra, Marathwada and Uttarakhand and at **isolated places** over Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.
- ◆ **Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today)** (7 cm or more): Ramnagar and Chanpatia- 28 each; Dhaurahra- 26; Bagaha- 20; Bhinga and Pernem-18; Gaunaha and Mahsi-16; Mulde and Margao- 16 each; Rajapur-15; Gonda-14; Kunda, Vengurla, Dodamarg, Malvan, Quepern, Kudal and Kalimpong- 13; Valpoi, Panjim, Dharmaram, Kollur and Peddapalle - 12 each; Mapusa, Dabolin, Upper Bhavani, Mangaluru and Wankdi - 11 each; Mudubidre, Vellarikundu, Sanguem, Sawantwadi, Kota, Karkala, Honavar and Srirampur - 10 each.
- ◆ **Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today):** **Heavy to very Heavy with isolated extremely heavy falls over Bihar and east Uttar Pradesh; Heavy to very Heavy at isolated places over** Telangana, Chhattisgarh, Konkan & Goa and Coastal Karnataka; **Heavy rainfall at isolated places over** Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Madhya Maharashtra, Assam & Meghalaya, Odisha, Vidharbha, west Madhya Pradesh.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at a few places over East Uttar Pradesh, Himachal Pradesh and Gangetic West Bengal and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Bihar, Odisha, Chhattisgarh, Telangana and Assam & Meghalaya.
- ◆ **Maximum Temperature Departures as on 14-06-2021:** maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Arunachal Pradesh, Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Saurashtra & Kutch; at a few places over Andaman & Nicobar Islands and at isolated places over Konkan & Goa and Lakshadweep. They were **markedly below normal (-5.1°C and less)** at most places over East Uttar Pradesh, Jharkhand and Chhattisgarh; at many places over West Uttar Pradesh, Gangetic West Bengal, Odisha, East Madhya Pradesh and Telangana and at isolated places over Coastal Andhra Pradesh & Yanam; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Bihar and Coastal Karnataka; at many places over Vidharbha and Interior Karnataka; at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh and Rayalaseema and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, Uttarakhand, Marathwada and Kerala & Mahe; **below normal (-1.6°C to -3.0°C)** at many places over Sub-Himalayan West Bengal & Sikkim, Punjab, Himachal Pradesh, East Rajasthan, Gujarat region and Tamilnadu & Puducherry and at isolated places over West Rajasthan, Madhya Maharashtra and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 42.4°C** was reported at Fatehgarh (East Uttar Pradesh).
- ◆ **Minimum Temperature Departures as on 15-06-2021:** minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Gujarat region and Sub Himalayan West Bengal; at few places over Konkan & Goa and at isolated places over west Rajasthan, Haryana, Chandigarh & Delhi, Madhya Maharashtra, Coastal Andhra Pradesh, Gangetic West Bengal and west Madhya Pradesh. They were **below normal (-1.6°C to -3.0°C)** at many places over Himachal Pradesh, Uttar Pradesh and east Madhya Pradesh, Vidharbha and Telangana; at few places over Coastal Karnataka and Tamil Nadu, Puducherry and Karaikal and at isolated places over Chhattisgarh, South Interior Karnataka and Bihar. **Today, the lowest minimum temperature of 18.0°C** is reported at Tezpur (Assam & Meghalaya) over the plains of the country.

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Meteorology 1877)

Meteorological Analysis (Based on 0830 hours IST)

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through lat. 20.5°N/ Long. 60°E, Diu, Surat, Nandurbar, Bhopal, Nowgong, Hamirpur, Barabanki, Bareilly, Saharanpur, Ambala and Amritsar.
- ◆ Due to approaching of mid-latitude westerlies winds, further progress of monsoon over remaining parts of northwest India is likely to be slow. The progress of monsoon is being monitored continuously and further update will be provided on daily basis.
- ◆ The **Low Pressure Area** over northwest Jharkhand & neighbourhood now lies over east Uttar Pradesh and adjoining Bihar and associated cyclonic circulation extends upto mid-tropospheric levels.
- ◆ A western disturbance as a cyclonic circulation lies over north Pakistan and neighborhood between 3.6 and 4.5 km above mean sea level.
- ◆ The trough at mean sea level now runs from Northwest Rajasthan to northwest Bay of Bengal across Haryana, Southwest Uttar Pradesh, center of low pressure area over east Uttar Pradesh and adjoining Bihar, Jharkhand, Gangetic West Bengal and extends upto 0.9 km above mean sea level .
- ◆ The cyclonic circulation over north Haryana & neighbourhood at 1.5 km above mean sea level persists.
- ◆ The off shore trough at mean sea level now runs from north Maharashtra coast to north Kerala coast.
- ◆ The trough from eastcentral Arabian sea to South Konkan now runs from central part of South Arabian Sea to south Konkan at 4.5 and 5.8 km above mean sea level.
- ◆ The cyclonic circulation at 0.9 km above mean sea level over south Assam & neighbourhood has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 20th June, 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperature over most parts of Northwest India during next 48 hours and rise by 2-4 ° C thereafter.
- ◆ No significant change in maximum temperature over most parts of the country during next 4-5 days.

Weather Outlook for subsequent 2 days from 20th June 2021 to 22th June 2021

- ◆ Widespread rainfall with isolated heavy to very heavy falls likely over most parts of Northeast India, parts of eastcentral & adjoining east India and along the west coast.
- ◆ Isolated to scattered rainfall over remaining parts of the country.

Weather Warning during next 5 days *

15 June (Day 1): ♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** at isolated places very likely over East Uttar Pradesh and Bihar; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka; **Heavy to very Heavy** at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and South Interior Karnataka and **Heavy Rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra. **Telangana, North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.**

♦ **Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Punjab; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely Haryana, Chandigarh & Delhi; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana and Kerala & Mahe and **with lightning** at isolated places Jammu and Kashmir, Himachal Pradesh, East Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Marathwada. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over Andaman Sea and along Andaman Islands, North and adjoining eastcentral Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** gulf of mannar, along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

16 June (Day 2): ♦ **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and **Heavy to Very Heavy Rainfall** at isolated places over Konkan & Goa and Bihar and **Heavy Rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra Telangana, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over East Rajasthan; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Andaman & Nicobar Islands, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal and Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over Andaman Sea and along Andaman Islands, North and adjoining eastcentral Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** gulf of mannar, along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

17 June (Day 3): ♦ **Heavy to Very Heavy Rainfall** at isolated places likely over East Uttar Pradesh and Konkan & Goa and **Heavy Rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Andaman & Nicobar Islands and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Vidharbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, **Thunderstorm/Duststorm with gusty winds** (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over North Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** along & off Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

18 June (Day 4): ♦ **Heavy to Very Heavy Rainfall** at isolated places likely over Konkan & Goa and East Uttar Pradesh and Heavy Rainfall at isolated places over Madhya Pradesh, Vidharbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim and Odisha.

♦ **Squally weather** (wind speed reaching 40-50 kmph) very likely over along & off Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

19 June (Day 5): ♦ **Heavy to Very Heavy Rainfall** at isolated places likely over East Uttar Pradesh and Heavy Rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, and Andaman & Nicobar Islands.

♦ **strong>Squally weather** (wind speed reaching 40-50 kmph) very likely over along & off Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)over southwest, westcentral and adjoining east central 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.

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies of the Notification 1677)



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

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

% Station Reporting Rainfall

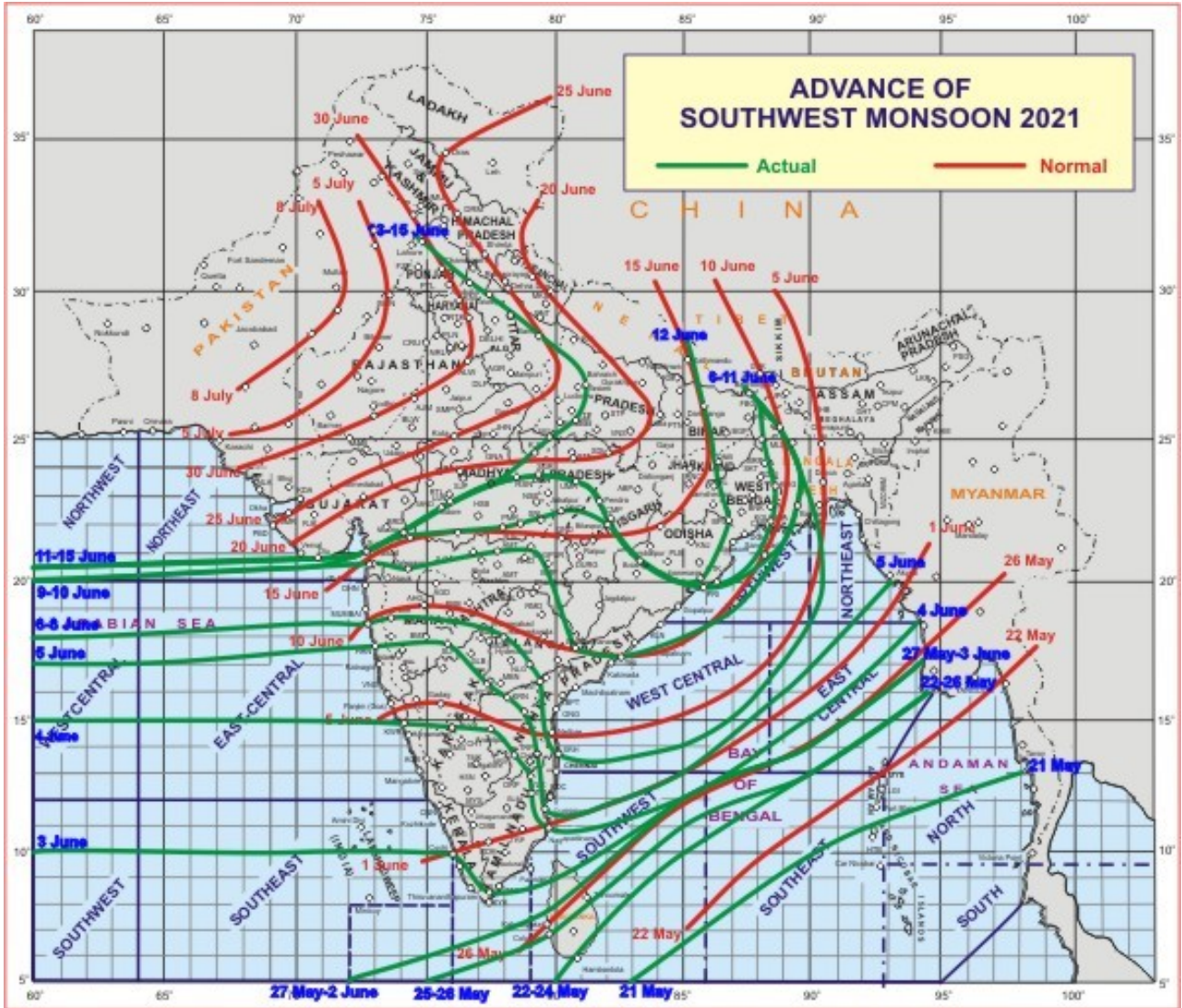
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)



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

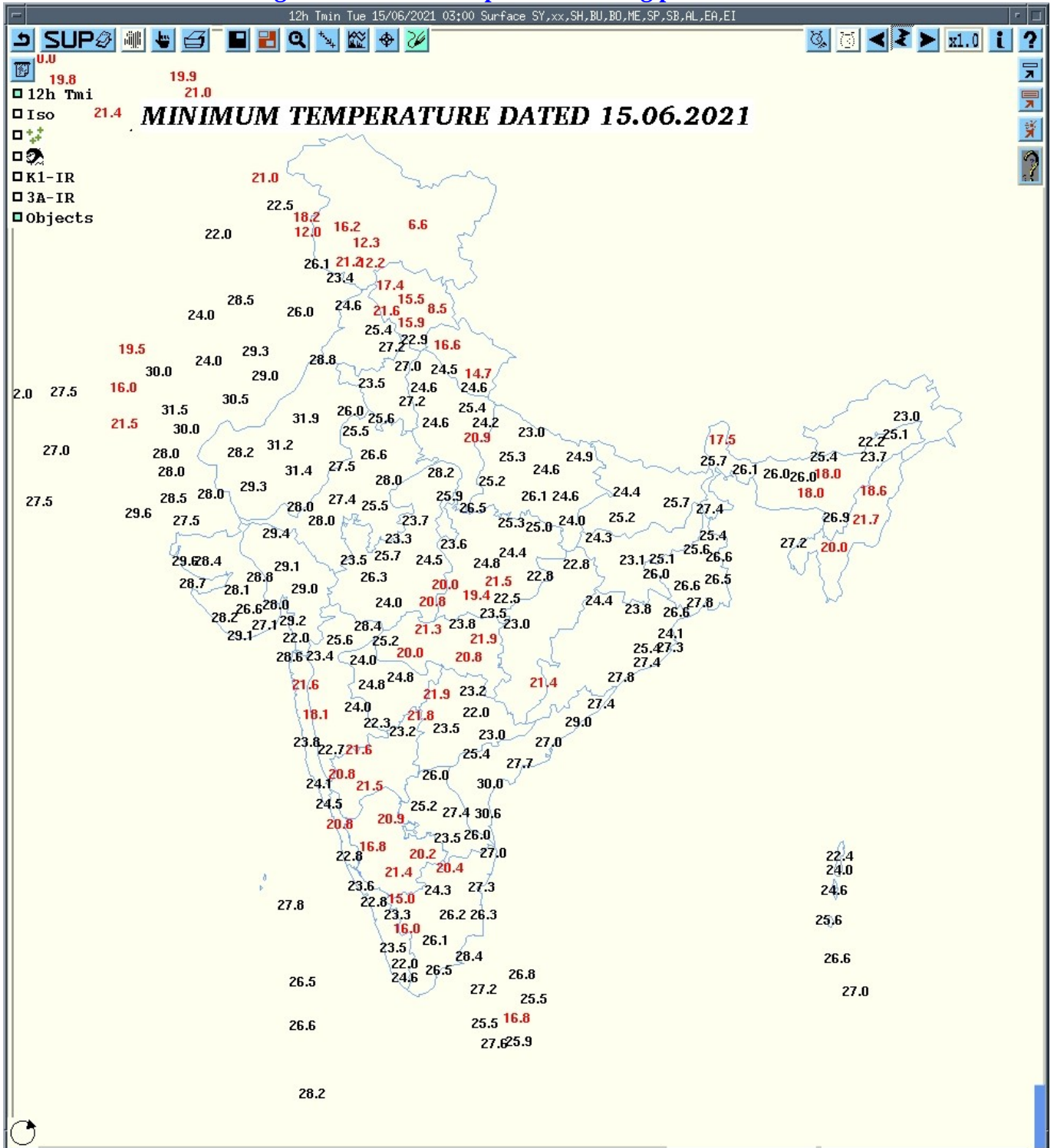
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the National since 1975)



Fig. 3: Minimum Temperature during past 24 hours



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

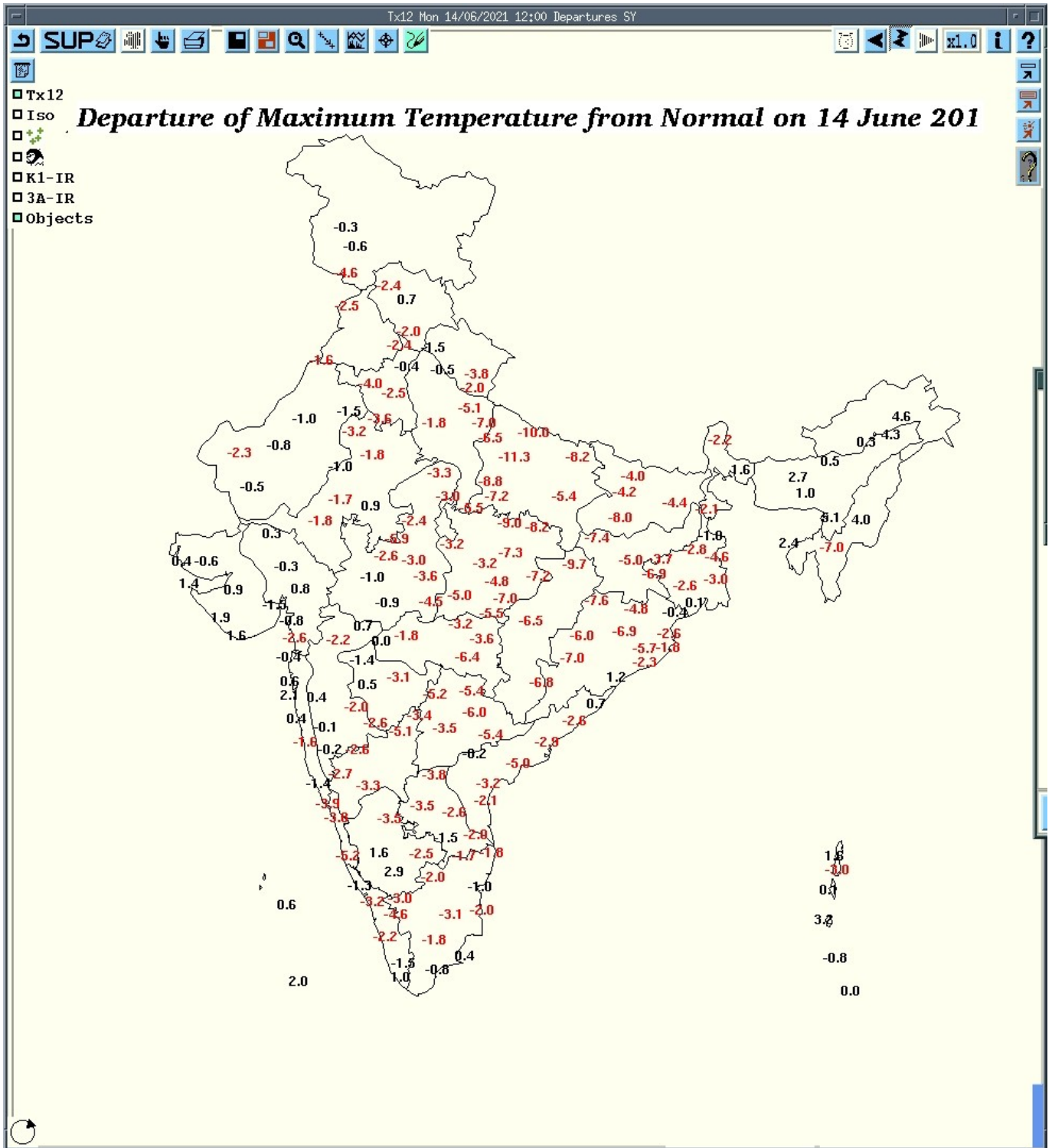
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the MetInfo@IMD)

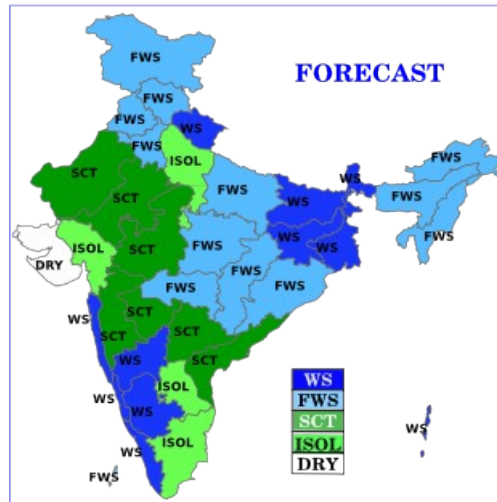


Fig. 4 : Departure from Normal of Maximum Temperatures



* Red color warning does not mean "Red Alert" Red color warning means "Take Action".
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day
For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

Tuesday 15 June 2021



15 June (Day 1): ♦ **Heavy to Very Heavy Rainfall** with **Extremely Heavy Falls** at isolated places very likely over East Uttar Pradesh and Bihar; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka; **Heavy to very Heavy** at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and South Interior Karnataka and **Heavy Rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, **Telangana, North Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.**

♦ **Thunderstorm with lightning & squall** (speed reaching 50-60 kmph) at isolated places very likely over Punjab; with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely Haryana, Chandigarh & Delhi; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana and Kerala & Mahe and **with lightning** at isolated places Jammu and Kashmir, Himachal Pradesh, East Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Marathwada. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over Andaman Sea and along Andaman Islands, North and adjoining eastcentral Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** gulf of mannar, along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea. Fishermen are advised not to venture into these areas.

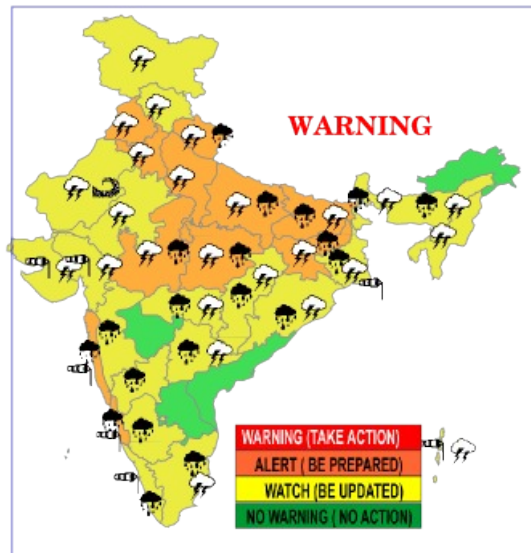
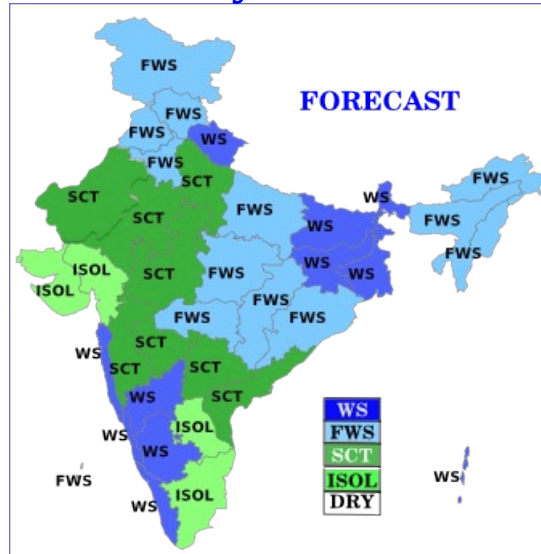
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media only (07))

Wednesday 16 June 2021



16 June (Day 2): ♦ Heavy to Very Heavy Rainfall at a few places over Coastal Karnataka and **Heavy to Very Heavy Rainfall** at isolated places over Konkan & Goa and Bihar and **Heavy Rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra Telangana, Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning & squall (speed reaching 50-60 kmph)** very likely at isolated places over East Rajasthan; **with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Andaman & Nicobar Islands, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal and Sikkim, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph) at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over Andaman Sea and along Andaman Islands, North and adjoining eastcentral Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** gulf of mannar, along & off Kerala-Karnataka-Goa-Maharashtra-Gujarat coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

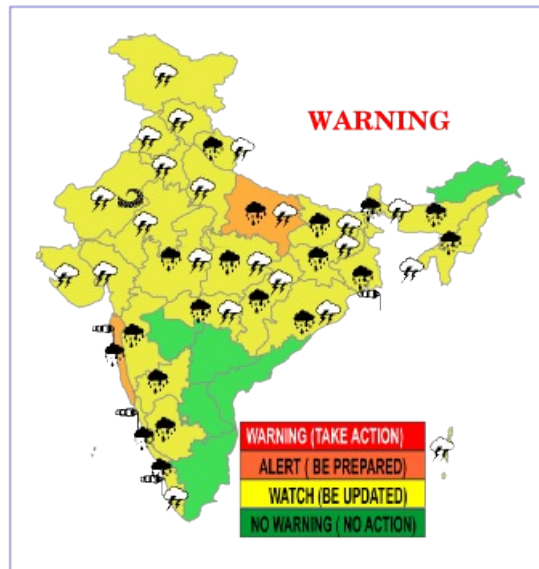
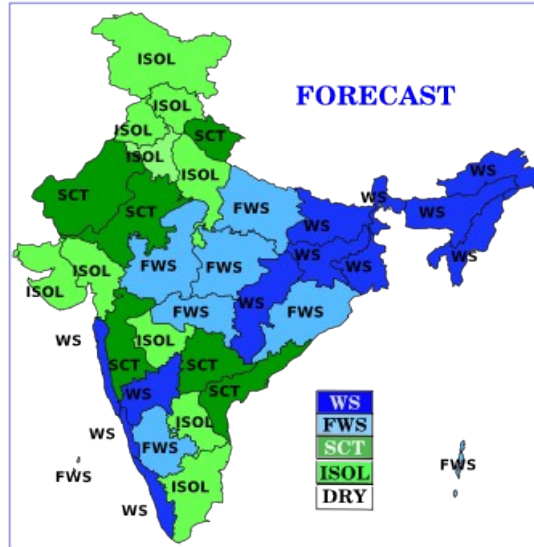
* **Red color warning does not mean "Red Alert" Red color warning means "Take Action".**

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1000)

Thursday 17 June 2021



17 June (Day 3): ♦ Heavy to Very Heavy Rainfall at isolated places likely over East Uttar Pradesh and Konkan & Goa and **Heavy Rainfall** at isolated places over Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Uttarakhand, West Uttar Pradesh, Madhya Pradesh, Andaman & Nicobar Islands and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Vidharbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, **Thunderstorm/Duststorm with gusty winds** (speed reaching 30-40 kmph) at isolated places likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 45-55 kmph) very likely over North Bay of Bengal along and off west Bengal coast; speed reaching **40-50 kmph** along & off Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

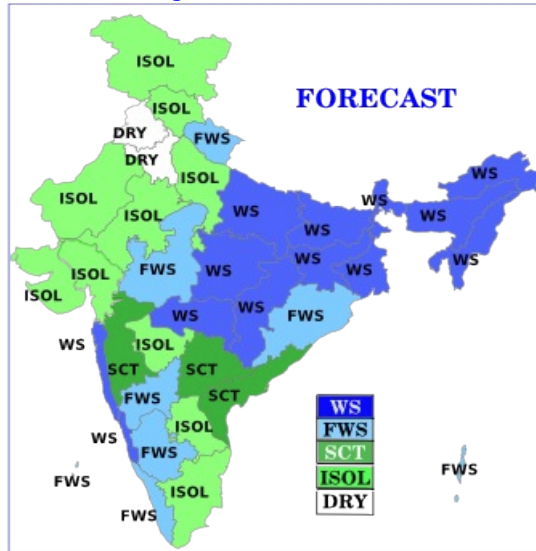
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies to the Media upto 1070)

Friday 18 June 2021



18 June (Day 4): ♦ Heavy to Very Heavy Rainfall at isolated places likely over Konkan & Goa and East Uttar Pradesh and Heavy Rainfall at isolated places over Madhya Pradesh, Vidharbha, Chattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim and Odisha.

♦ **Squally weather** (wind speed reaching 40-50 kmph) very likely over along & off Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over southwest, westcentral and adjoining east central Arabian Sea . Fishermen are advised not to venture into these areas.

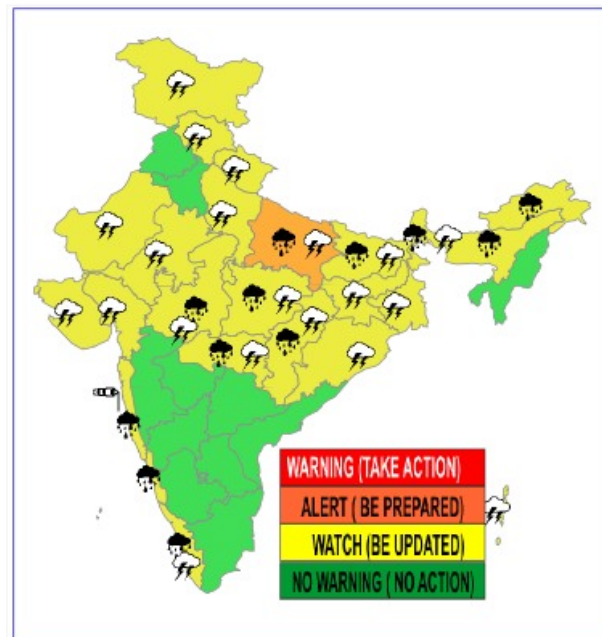
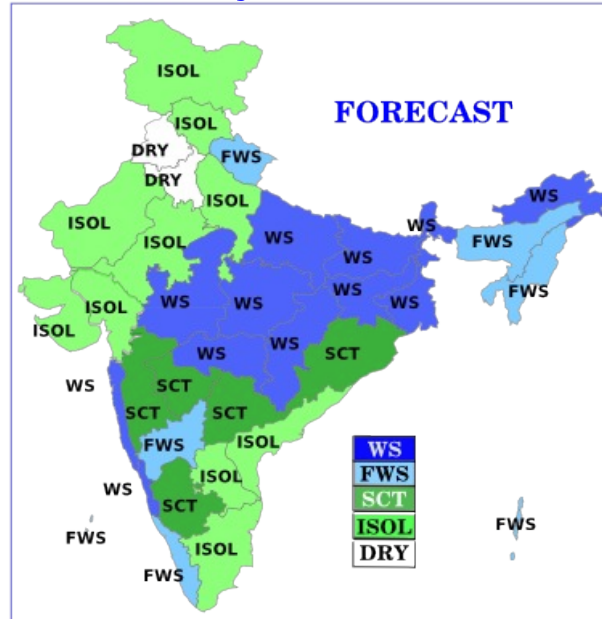
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Circle as the Nation since 1975)

Saturday 19 June 2021



19 June (Day 5): ♦ **Heavy to Very Heavy Rainfall** at isolated places likely over East Uttar Pradesh and Heavy Rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds** (speed reaching 30-40 kmph) at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe and with lightning at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, and Andaman & Nicobar Islands.

♦ **strong**>Squally weather (wind speed reaching 40-50 kmph) very likely over along & off Maharashtra coasts. **Strong Winds** (speed 45-55 kmph gusting to 65 kmph) over southwest, westcentral and adjoining east central 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".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

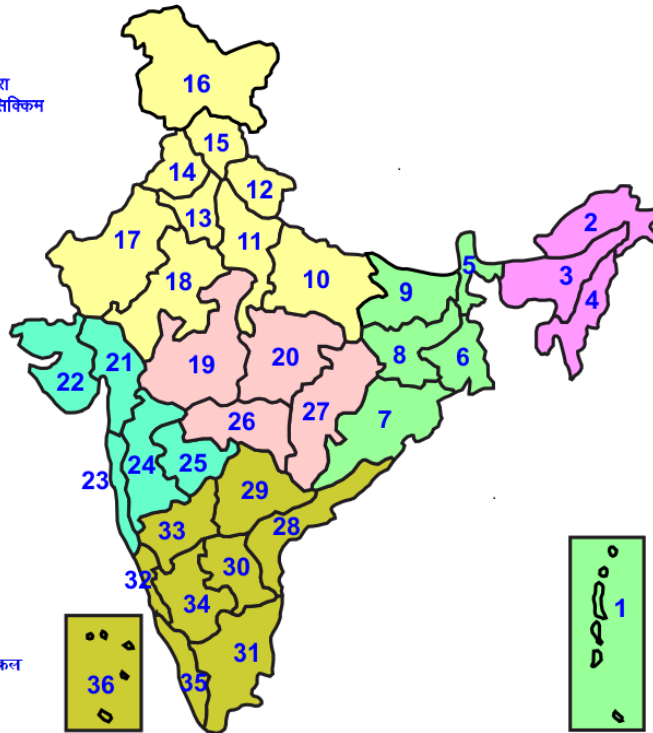
For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copied as the National Alert 1877)



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 एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Copies of the National Alert 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°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)

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteorology Deptt)