



Monday 14 June 2021

EVENING

Time of Issue: 1630 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 south Jharkhand & neighbourhood with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height. It is likely to move west-northwestwards. A trough runs from west Rajasthan to northeast Bay of Bengal in lower tropospheric levels and another trough runs from Eastcentral Arabian Sea to south Konkan in mid tropospheric levels. An off shore trough at mean sea level runs from south Maharashtra coast to north Kerala coast.
- ◆ 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 4 days and isolated **extremely heavy falls** also very likely over Bihar on 15th June.
  - (ii) Widespread **rainfall with isolated heavy to very heavy falls, thunderstorm & lightning** very likely over Konkan & Goa, Karnataka and Kerala & Mahe during next 4 days. Isolated **extremely heavy falls** also very likely over Konkan & Goa and Coastal Karnataka on 14th & 15th June.
  - (iii) Scattered to fairly widespread **rainfall with isolated thunderstorm & lightning** over most parts of Northwest India during next 3 days and decrease in rainfall activity thereafter except East Uttar Pradesh where fairly widespread rainfall is likely to continue. 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.
- ◆ **Moderate to severe thunderstorms** accompanied by **frequent cloud to ground lightning** and strong gusty winds very likely over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Rajasthan and Bihar on 14th & 15th; over Jharkhand on 14th; over Punjab and Haryana 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 Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Andaman & Nicobar Islands, Marathawada and Lakshadweep; at a few places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and North Interior Karnataka and at isolated places over West Uttar Pradesh, Rajasthan, Gujarat region, Tamilnadu, Puducherry & Karaikal and Rayalaseema.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Ratnagiri-24; Astaranga-17; Rajapur, Kakatpur and Kankavali-13 each; Sawantwadi, Dodamarg, Vaikom, Chandurthi and Konaraopeta-12 each; Dapoli, Mulde, Bheemgal-11; Cuttack, Kodagu, Kudulu, Taliparamba, Poonjar, Idukki, Srirampur, Mustabad, Bazarhathnoor and Ellanthukunta-10 each; Mathili, Panambur, Agumbe, Tinsukiya, Valpoi, Mhasla, Janjgir, Paniyoor, Kanjirappally, Kozha, Kathlapur, Metpalle, Mangalore, Kozhikode and Kottayam-9 each; Vadakara, Mattannur, Durg, Bajpe, Nanded and Valprai-8 each; Guwahati, Aurad, Parbhani and Karipur-7 each.
- ◆ **Heavy Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to very heavy Rainfall with extremely heavy falls** at isolated places over Konkan & Goa; **heavy to very heavy rainfall** at a few places over Telangana and Kerala & Mahe and at isolated places over Odisha and East Uttar Pradesh and **heavy rainfall** at isolated places over Marathawada, Vidarbha, Chhattisgarh, Assam & Meghalaya, Karnataka and Tamilnadu.
- ◆ **Thunderstorm observed** (from 0830 hours IST to 1430 hours IST of today): at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan and East Uttar Pradesh and at isolated places over Himachal Pradesh, Jharkhand, East Rajasthan, East Madhya Pradesh, Chhattisgarh and Assam & Meghalaya.
- ◆ **Maximum Temperature Departures as on 13-06-2021:** Maximum temperature were **markedly above normal (5.1°C and more)** at isolated places over Andhra Pradesh and Assam & Meghalaya; **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Saurashtra & Kutch, Tamilnadu & Puducherry and Andaman & Nicobar Islands; **above normal (1.6°C to 3.0°C)** at isolated places over South Interior Karnataka and Marathawada. They were **markedly below normal (-5.1°C and less)** at most places over East Uttar Pradesh; at many places over Haryana, Chandigarh & Delhi and Punjab; at a few places over Chhattisgarh, Odisha and Bihar and at isolated places over Coastal Andhra Pradesh, **appreciably below normal (-3.1°C to -5.0°C)** at most places over Vidarbha and West Madhya Pradesh; at many places over Himachal Pradesh, at a few places over Gangetic West Bengal and isolated places over Sub-Himalayan West Bengal, Coastal Karnataka, North Interior Karnataka, West Madhya Pradesh, Jammu, Kashmir, Ladakh, Gilgit-Baltistan, West Rajasthan & Muzaffarabad; **below normal (-1.6°C to -3.0°C)** at most places over Telangana, at many places over Kerala and at isolated places over Uttarakhand, Madhya Pradesh and Rayalaseema Himachal Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of **41.8°C** was reported at Phalodi (**West Rajasthan**).
- ◆ **Minimum Temperature Departures as on 14-06-2021:** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at many places over Gujarat region; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Rajasthan, Himachal Pradesh, Saurashtra & Kutch, Madhya Maharashtra and Assam & Meghalaya. They are **appreciably below normal (-3.1°C to -5.0°C)** at many places over Telangana; at a few places over Vidarbha and Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Chhattisgarh, Marathawada, Kerala & Mahe and Lakshadweep; at a few places over Bihar, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Tamilnadu, Puducherry & Karaikal and at isolated places over Haryana, Chandigarh & Delhi, Andaman & Nicobar Islands and Odisha and **near normal** over rest of the country. The lowest minimum temperature of **16.6°C** reported at **Bidar (North Interior Karnataka)** over the plains of the country.

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### Meteorological Analysis (Based on 1430 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 south Jharkhand & neighbourhood with the associated cyclonic circulation extending upto mid-tropospheric levels tilting southwestwards with height persists. It is likely to move west-northwestwards.
- ◆ The trough from West Rajasthan to northeast Bay of Bengal across East Rajasthan, north Madhya Pradesh, North Chattisgarh and center of Low Pressure Area over south Jharkhand & neighbourhood and north Odisha extending upto 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over north Haryana & neighbourhood at 1.5 km above mean sea level persists.
- ◆ The off shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists.
- ◆ The trough from Eastcentral Arabian Sea to south Konkan at 5.8 km above mean sea level persists.
- ◆ The cyclonic circulation at 0.9 km above mean sea level over south Assam & neighbourhood persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 19th 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 the country during next 4-5 days.

### Weather Outlook for subsequent 2 days from 19th June 2021 to 21th June 2021

- ◆ Widespread rainfall with isolated heavy to very heavy falls likely over most parts of Northeast India, parts of Central & adjoining North India and along the west coast.
- ◆ Scattered to fairly widespread rainfall over remaining parts of Central & adjoining East & North India.
- ◆ Isolated to scattered rainfall over remaining parts of the country except Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi where weather is likely to be dry.

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## Weather Warning during next 5 days \*

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

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

♦ **Squally weather** (wind speed reaching 50-60 kmph) very likely over Andaman Sea, Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, north, central & southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

**15 June (Day 2):** ♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places very likely over Konkan & Goa and Coastal Karnataka; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over East Uttar Pradesh and Bihar; **Heavy to Very Heavy Rainfall** at isolated places over Interior Karnataka and Kerala & Mahe and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal.

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

♦ **Squally weather** (wind speed reaching 50-60 kmph) very likely over Andaman Sea, Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central & southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

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

♦ **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 Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 50-60 kmph) very likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central Bay of Bengal. Fishermen are advised not to venture into these areas.

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

♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over East Rajasthan; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Uttarakhand, Himachal Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 50-60 kmph) likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.

**18 June (Day 5):** ♦ **Heavy to Very Heavy Rainfall at isolated places** likely over East Uttar Pradesh and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over East Rajasthan; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** likely over Southwest & 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.

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भारत मौसम विज्ञान विभाग  
पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre  
India Meteorological Department  
Ministry of Earth Sciences

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**Table-1**  
**5 Day Rainfall Forecast (EVENING)**  
**14-June-2021**

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

**% Station Reporting Rainfall**

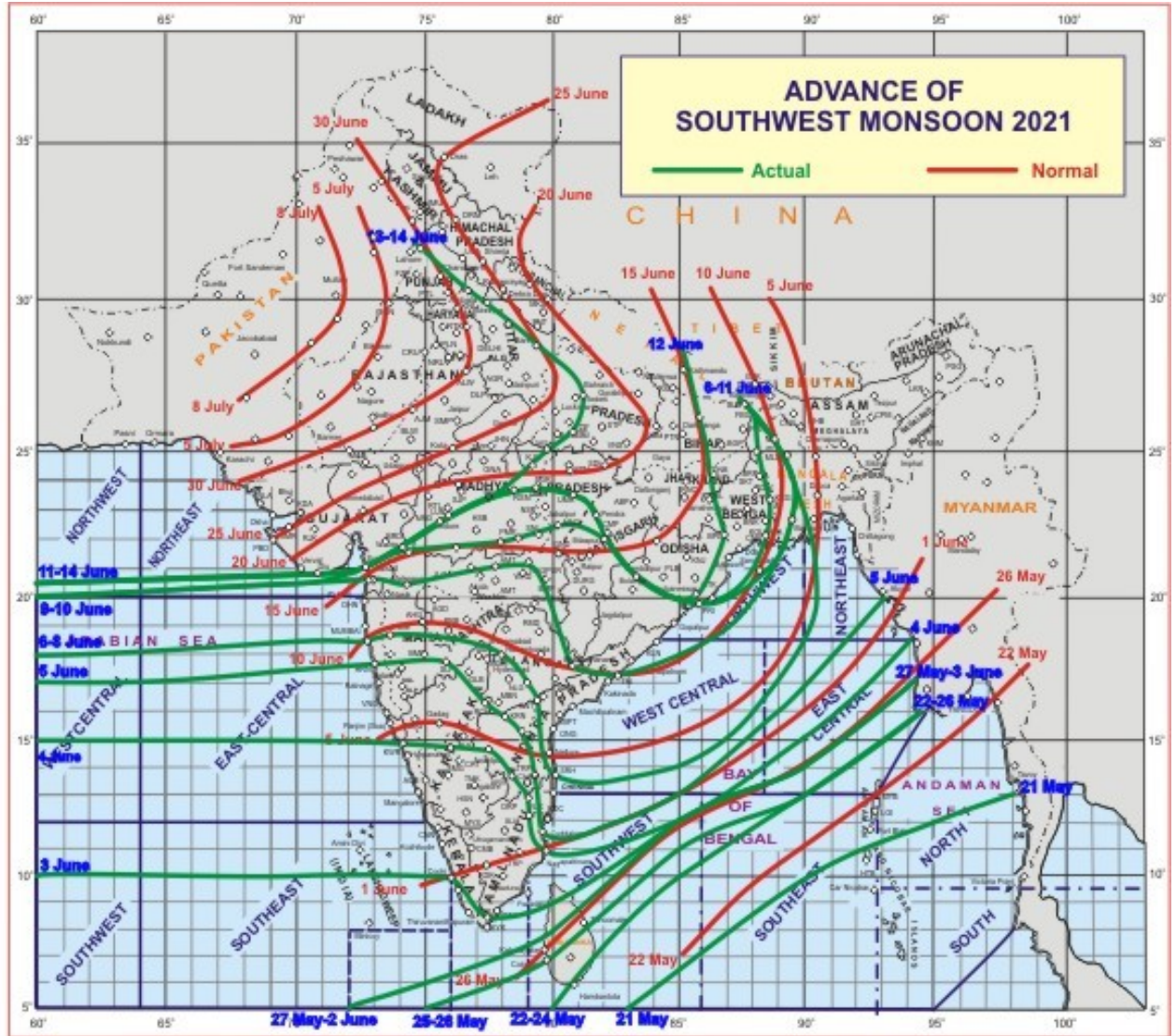
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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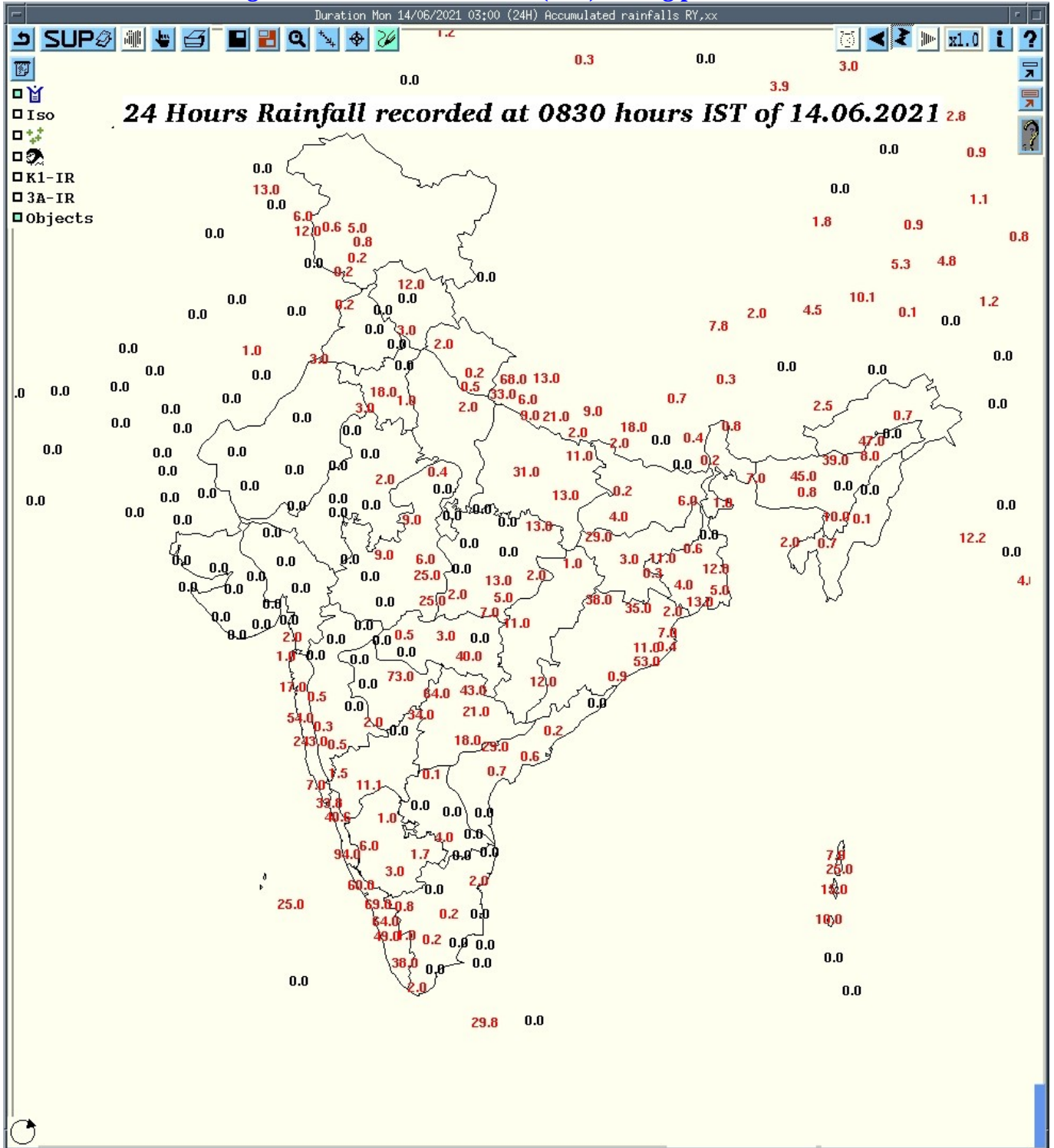
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**Fig. 1: Accumulated Rainfall (mm) during past 24 hours**



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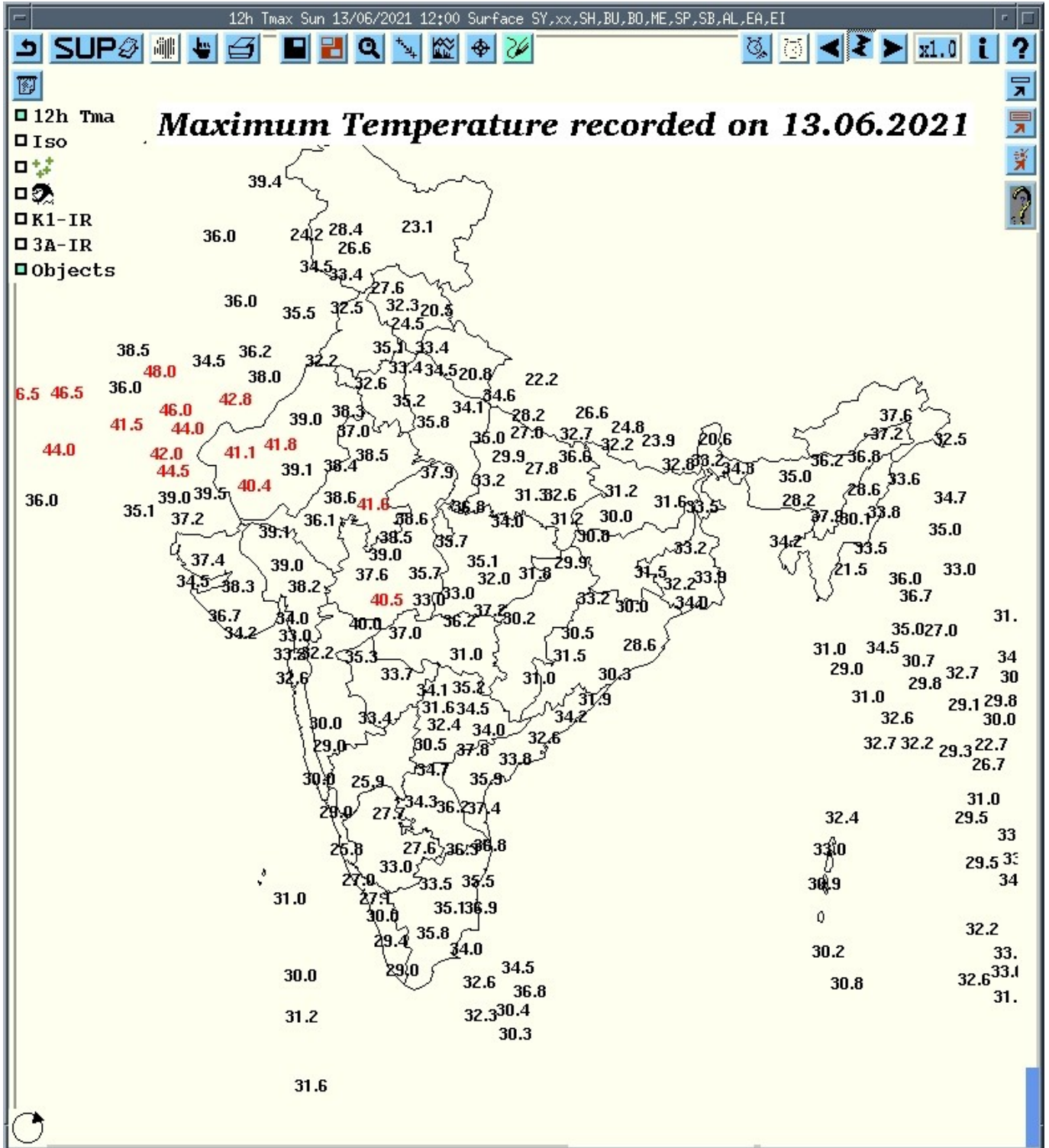
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Fig. 2: Maximum Temperature during past 24 hours



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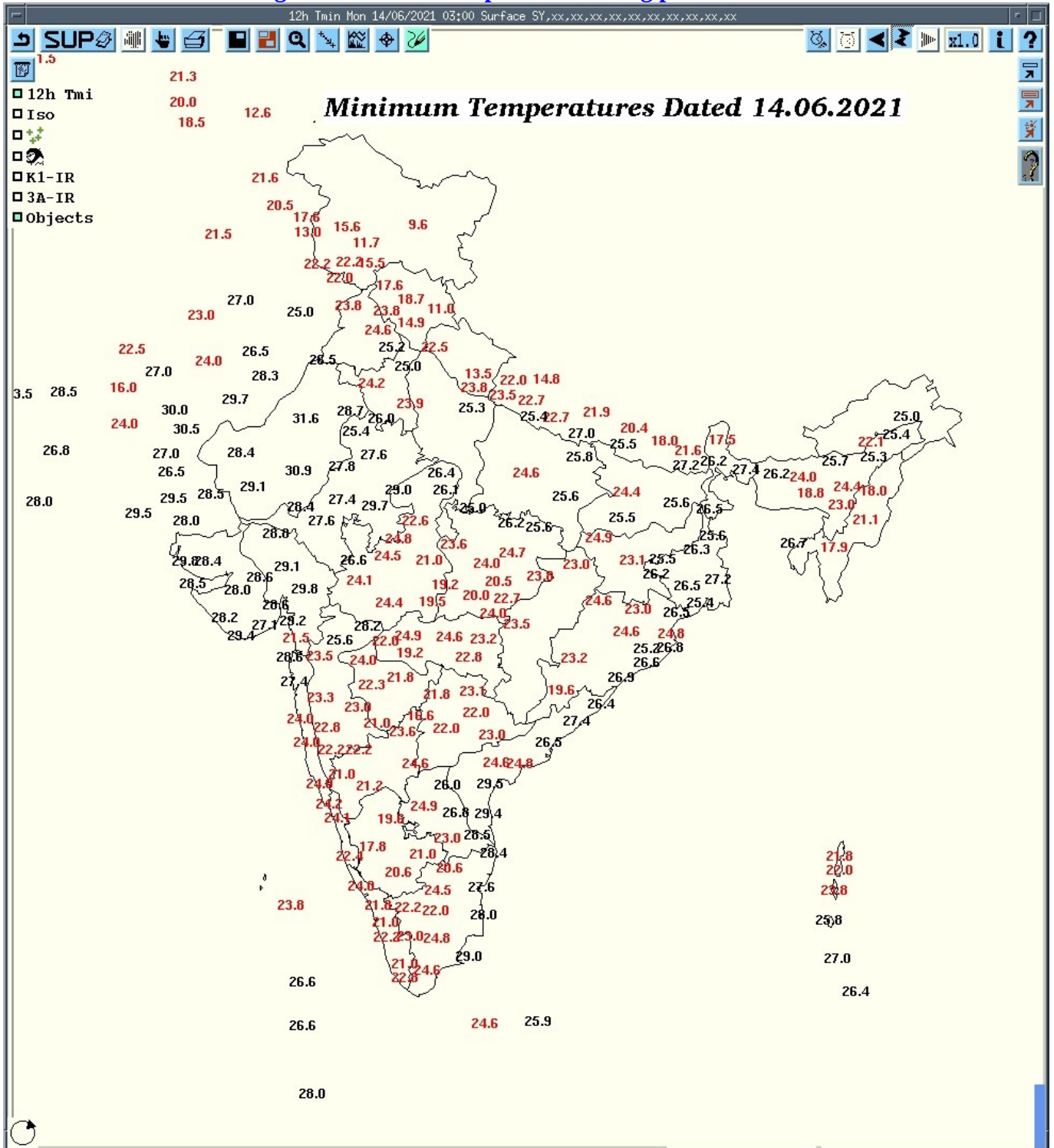
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Fig. 3: Minimum Temperature during past 24 hours



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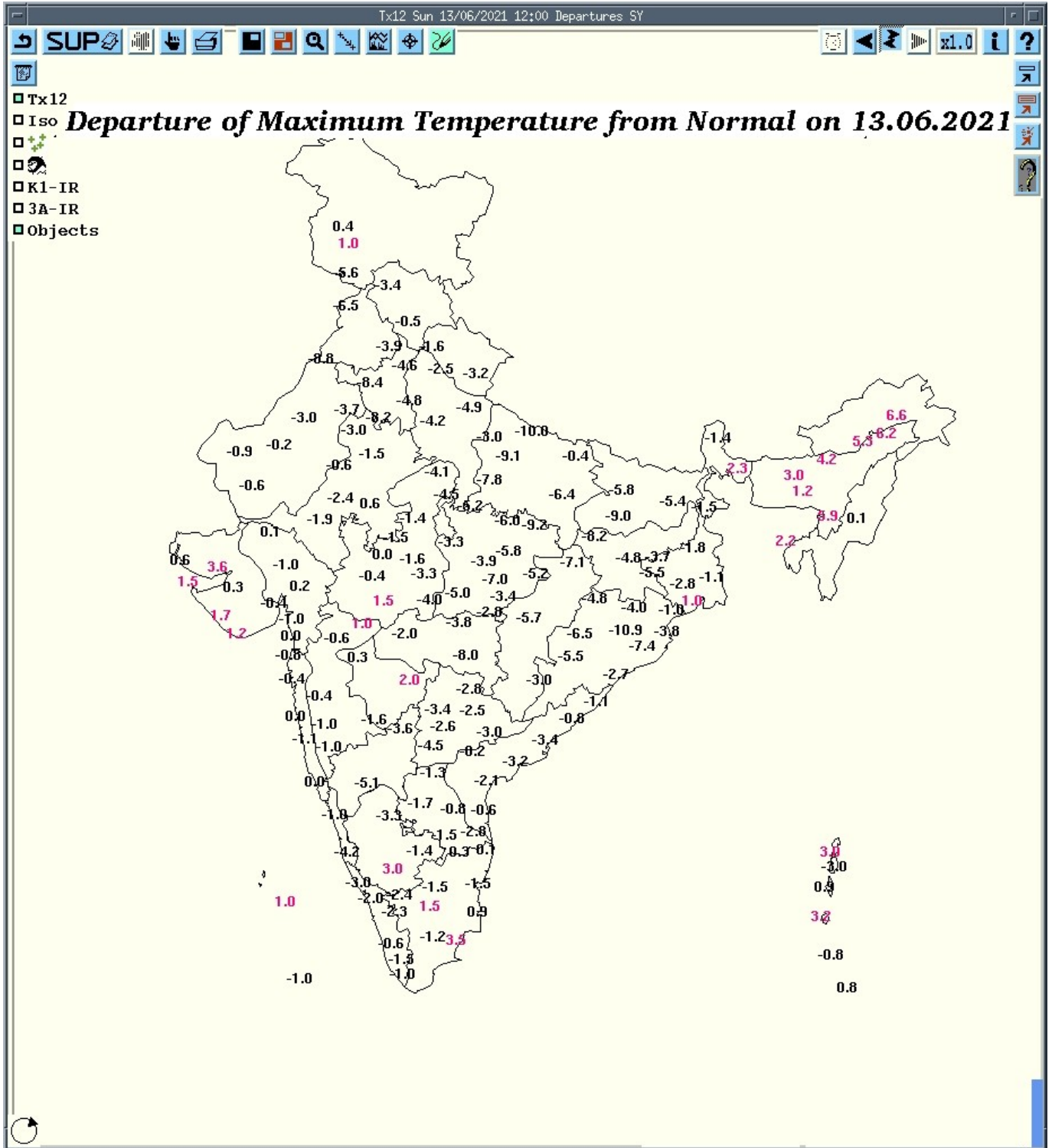
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Fig. 4 : Departure from Normal of Maximum Temperatures



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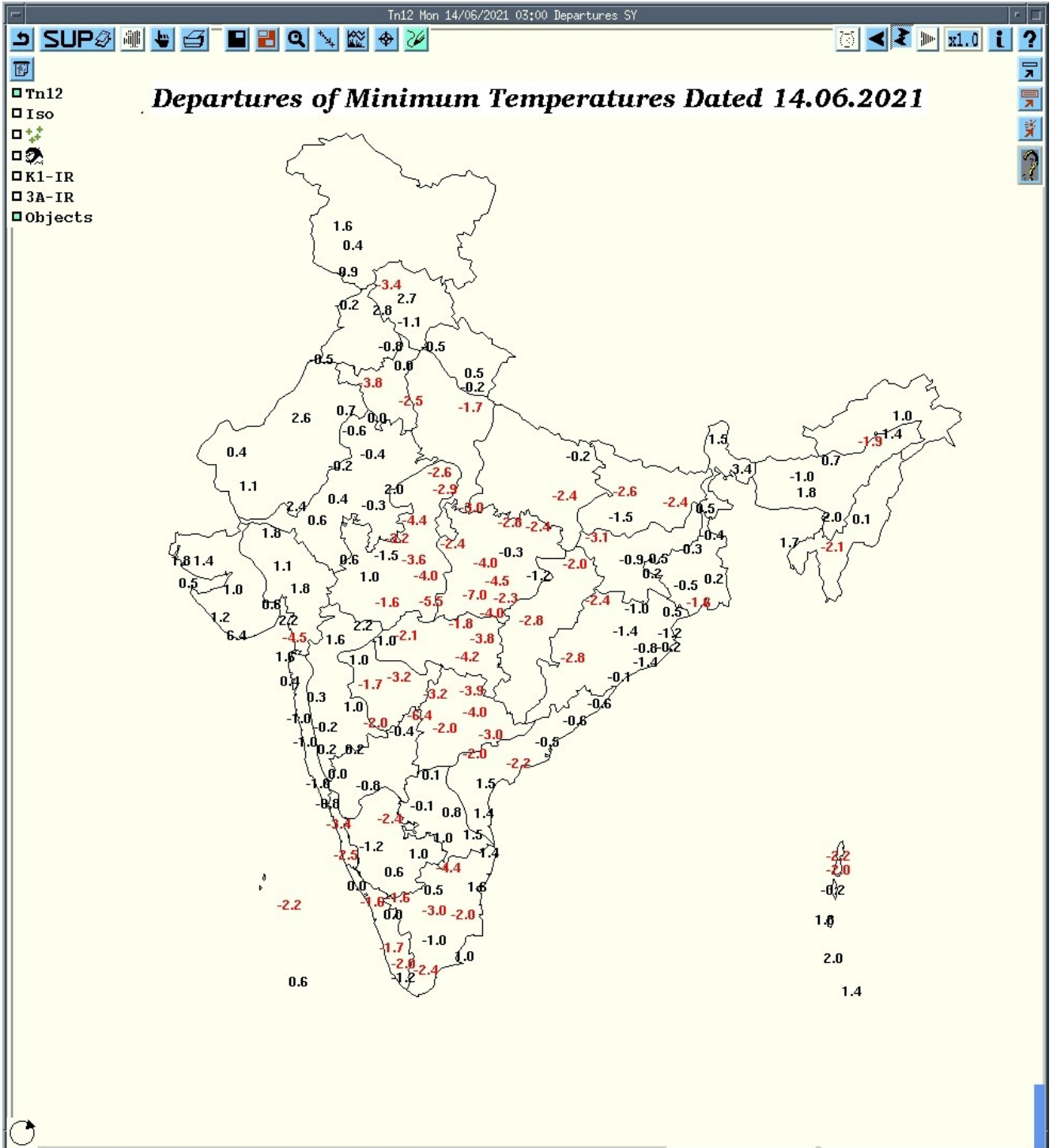
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Fig. 5 : Departure from Normal of Minimum Temperatures



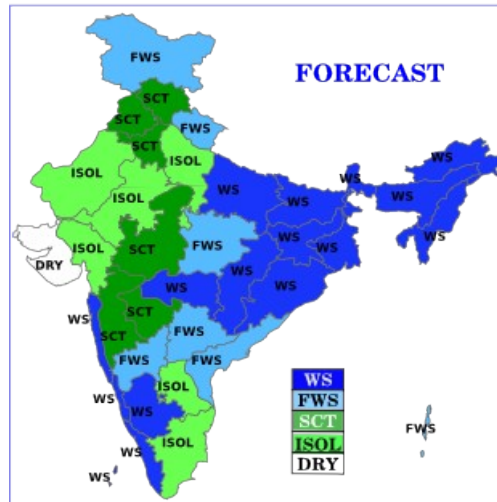
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## Monday 14 June 2021



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

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

♦ **Squally weather** (wind speed reaching 50-60 kmph) very likely over Andaman Sea, Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, north, central & southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

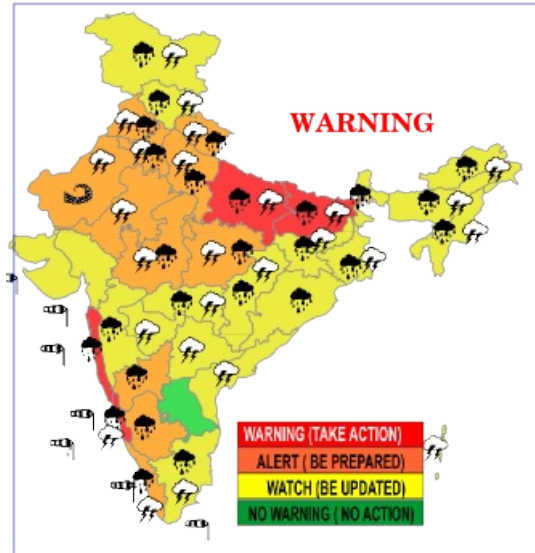
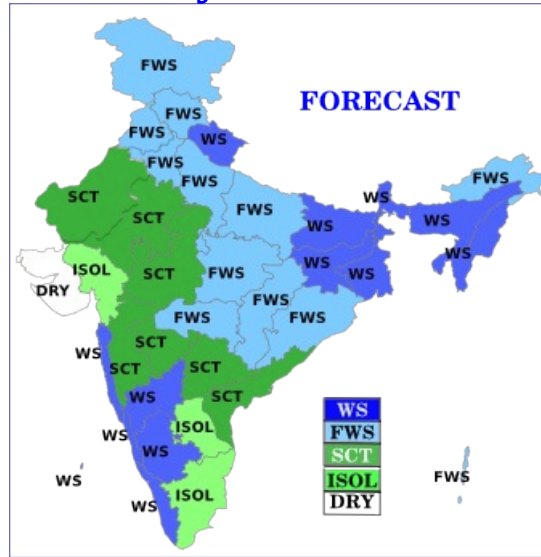
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## Tuesday 15 June 2021



**15 June (Day 2):** ♦ **Heavy to Very Heavy Rainfall** at a few places with **Extremely Heavy Falls** at isolated places very likely over Konkan & Goa and Coastal Karnataka; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over East Uttar Pradesh and Bihar; **Heavy to Very Heavy Rainfall** at isolated places over Interior Karnataka and Kerala & Mahe and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal.

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

♦ **Squally weather (wind speed reaching 50-60 kmph)** very likely over Andaman Sea, Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central & southwest Bay of Bengal and Gulf of Mannar. Fishermen are advised not to venture into these areas.

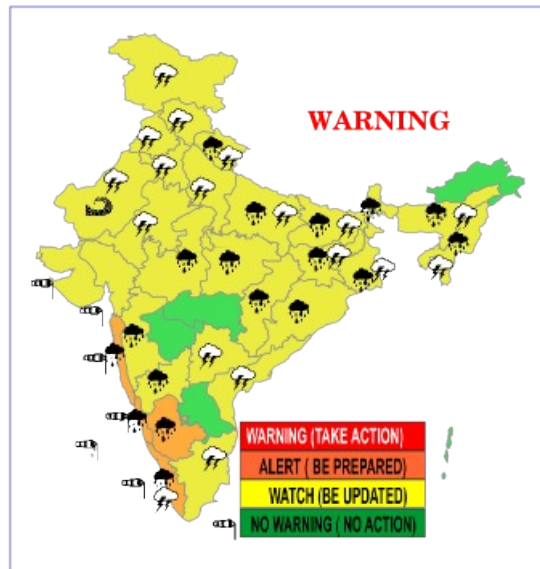
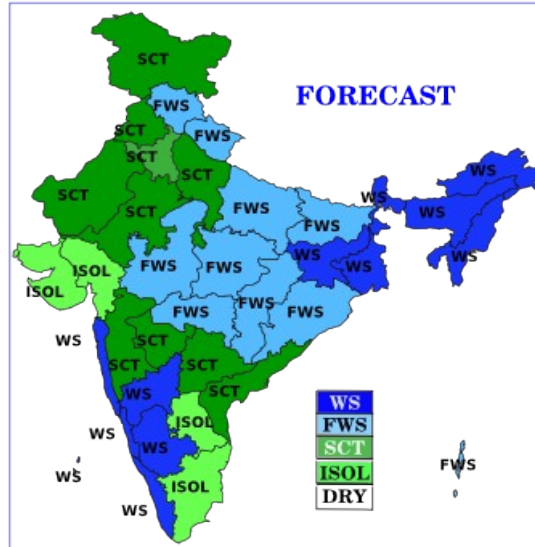
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## Wednesday 16 June 2021



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

♦ **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 Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over West Rajasthan.

♦ **Squally weather** (wind speed reaching 50-60 kmph) very likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea, central Bay of Bengal. Fishermen are advised not to venture into these areas.

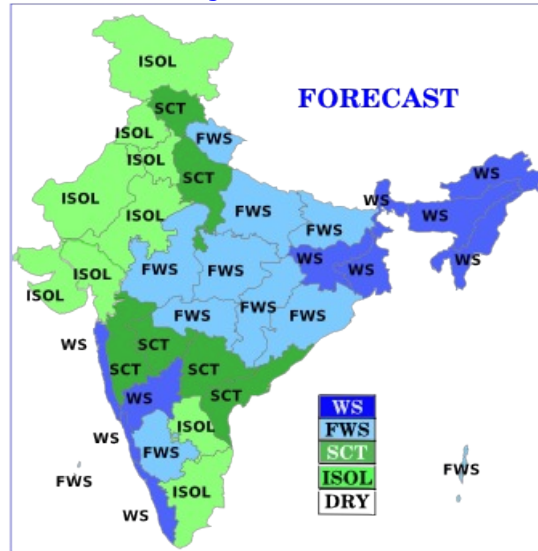
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## Thursday 17 June 2021



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

♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over East Rajasthan; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Uttarakhand, Himachal Pradesh, Jharkhand, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal. **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Squally weather (wind speed reaching 50-60 kmph)** likely over Lakshadweep area and along & off north Kerala-Karnataka-Goa-Maharashtra coasts. **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** over northeast Arabian Sea and along & off Gujarat coast, Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.

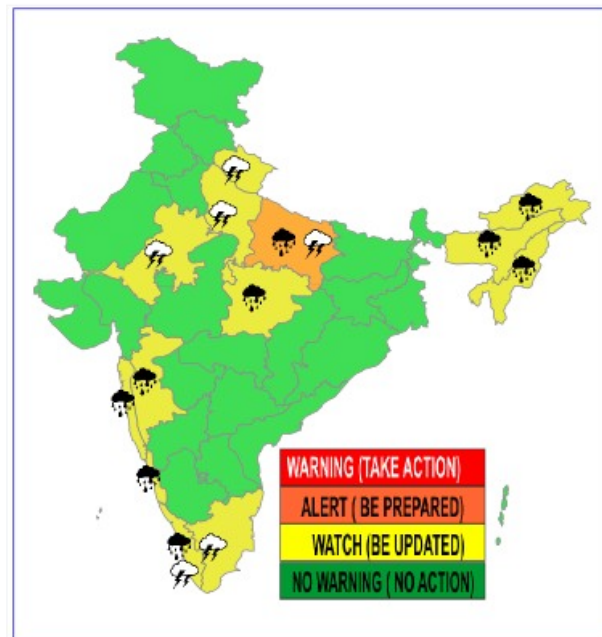
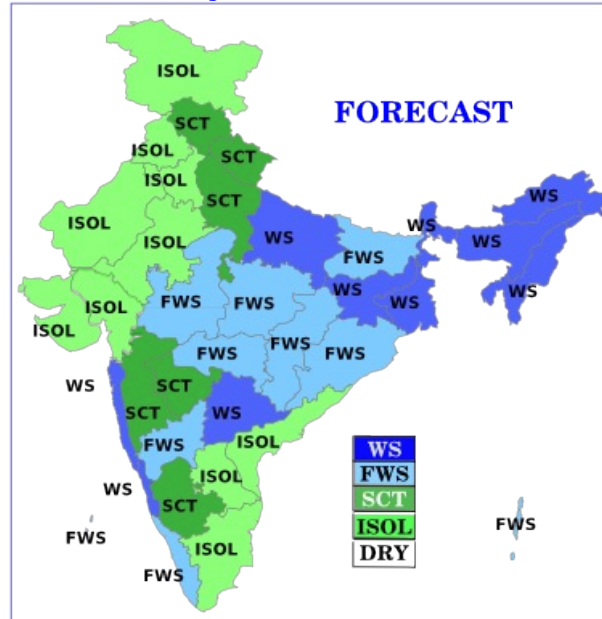
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## Friday 18 June 2021



**18 June (Day 5):** ♦ **Heavy to Very Heavy Rainfall at isolated places** likely over East Uttar Pradesh and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places likely over East Rajasthan; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh and Kerala & Mahe and **with lightning** at isolated places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal.

♦ **Strong Winds (speed 45-55 kmph gusting to 65 kmph)** likely over Southwest & Central Arabian Sea. Fishermen are advised not to venture into these areas.

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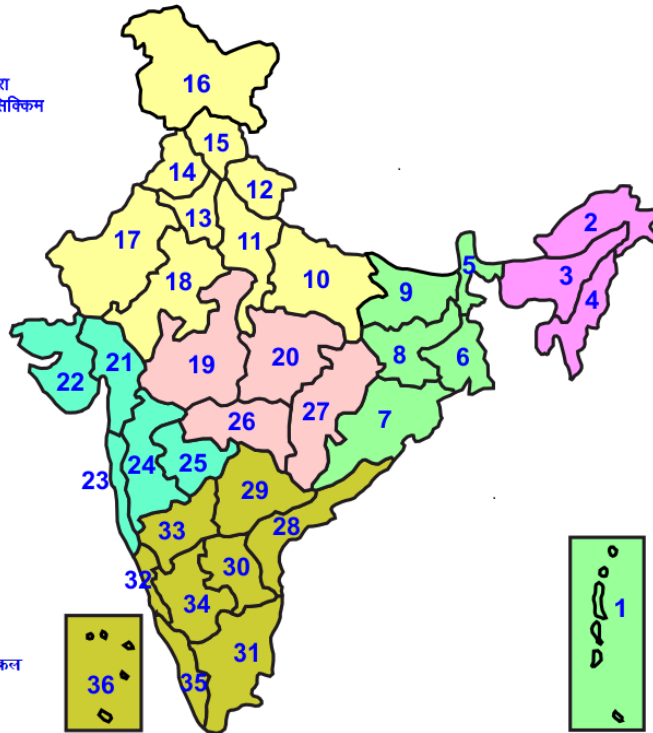
(Circle as the National since 1975)





## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 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

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

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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## LEGENDS

### WARNING

WARNING (TAKE ACTION)
ALERT ( BE PREPARED)
WATCH (BE UPDATED)
NO WARNING ( NO ACTION)

### Probabilistic Forecast

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



Rain/ Snow \*

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



Heat Wave

When maximum temperature of a station reaches  $\geq 40^{\circ}\text{C}$  for plains and  $\geq 30^{\circ}\text{C}$  for hilly regions  
(a) Based on Departure from normal

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

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

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

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

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



Cold Wave

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

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

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

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

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility  $< 50$  metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

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



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed  $> 87$  kmph



Sea State

Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre

High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre

Phenomenal: Wind speed  $> 117$  kmph ( $> 63$  knots) & Wave height  $> 14$  metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

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

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

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