



Thursday 10 June 2021

MID-DAY

Time of Issue: 1345 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ Southwest Monsoon has further advanced into some more parts of south Gujarat region, remaining parts of Maharashtra, Telangana & Andhra Pradesh, some parts of south Madhya Pradesh, Chhattisgarh and south Odisha, remaining parts of central Bay of Bengal and most parts of North Bay of Bengal today, the 10th June, 2021.
- ◆ The Northern Limit of Monsoon (NLM) passes through lat. 20.0°N/ Long. 60°E, lat. 20.5°N/ Long. 70°E, Surat, Nandurbar, Betul, Mandla, Bilaspur, Bolangir, Puri, 22.5°N/89.5°E, 24.0°N/89.5°E and Baghdogra.
- ◆ Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, Madhya Pradesh, remaining parts Chhattisgarh and Odisha, entire West Bengal and Jharkhand and some parts of Bihar and east Uttar Pradesh and remaining parts of north Bay of Bengal during next 48 hours.
- ◆ A cyclonic circulation lies over Northwest Bay of Bengal and extends upto mid-tropospheric level. Under its influence, a Low Pressure Area is likely to form over Northwest Bay of Bengal & neighbourhood during next 24 hours. It is likely to become more marked during subsequent 24 hours and move west-northwestwards across Odisha. Under its influence; fairly widespread to widespread rainfall activity with **isolated to scattered heavy to very heavy falls** very likely over most parts of East India & adjoining Central India from today. **Isolated extremely heavy falls (≥ 20 cm) also very likely over Odisha on 11<sup>th</sup> & 12<sup>th</sup>; over Chhattisgarh during 11<sup>th</sup>-13<sup>th</sup>; over East Madhya Pradesh on 13<sup>th</sup>; over Vidarbha on 12<sup>th</sup> & 13<sup>th</sup>, June 2021.**
- ◆ Due to the strengthening of westerly winds along the west coast in association with Low Pressure area; widespread rainfall activity with **heavy to very heavy falls** likely to continue over coastal districts of Maharashtra during 10<sup>th</sup> to 15<sup>th</sup> June and likely over coastal Karnataka during 12<sup>th</sup> to 15<sup>th</sup> June, 2021. Isolated **heavy rainfall** is very likely over Kerala during 12<sup>th</sup> to 15<sup>th</sup> June, 2021. Isolated **extremely heavy falls** also very likely over Konkan during 12<sup>th</sup> to 15<sup>th</sup> June, 2021.
- ◆ Due to west-northwestwards of Low Pressure area & its remnant, fairly widespread to widespread rainfall activity **with isolated heavy falls** is very likely over northwest India (excluding Rajasthan) during 12<sup>th</sup> to 14<sup>th</sup> June, 2021. Isolated very heavy rainfall also very likely over Uttarakhand and Uttar Pradesh on 12<sup>th</sup> June.
- ◆ Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Uttar Pradesh, Uttarakhand, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2 days.
- ◆ **Heat wave conditions** very likely in isolated pockets over south Haryana on 10th and over Northwest Rajasthan on 10th & 11th June.

Main Weather Observations

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◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Konkan & Goa, Chhattisgarh, Uttarakhand, Andaman & Nicobar Islands, Kerala & Mahe; at many places over Coastal & North Interior Karnataka, East Madhya Pradesh, Vidarbha, Odisha, Marathawada, Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh, Lakshadweep, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur and Mizoram, Bihar, Jharkhand, Madhya Maharashtra, East Uttar Pradesh, Coastal Andhra Pradesh, Telangana, South Interior Karnataka and at isolated places over Haryana, West Uttar Pradesh, West Madhya Pradesh, Gujarat state, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Thane, Mumbai (Santacruz)-23; Long Island-17; Panvel, Bemetara-16; Ulhasnagar-15; Kalyan, Mathern, Mahasamund-12 each, Raipur, Gomati, Gurur-11each; Jakholi, Sagar, Dhamtari-10 each; Mumbai (Colaba), Pathapatnam, Bhatkal, Mormugao, Shahjahapur, Sriwardhan, Dhule, Batli- 9; Balmikinagar, Palampur, Pendra Road, Shahdol, Mainpur, Shirali, Sitapur, Belgaon-8 each; Sirmaur, Parbhani, Mandla, Hamai, Jaithari, Mapusa, Kurdeg, Khalapur, Dindori, Baloda, Kollur, Saiha-7 each.

◆ **Heavy to very heavy rainfall at a few places with extremely Heavy falls recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Konkan & Goa; **heavy to very heavy rainfall** at a few places over Chhattisgarh; at isolated places over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Odisha, Jharkhand, Bihar, Madhya Maharashtra, Coastal Andhra Pradesh, Coastal Karnataka, Marathawada, Mizoram, Tripura.

◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Gangetic West Bengal, Jharkhand, Odisha, Andaman & Nicobar Islands, Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Vidarbha, Marathwada, Telangana, Coastal Andhra Pradesh and Konkan & Goa.

◆ **Maximum Temperature Departures as on 09-06-2021:** Maximum temperature were **markedly above normal (5.1°C and more)** most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad **appreciably above normal (3.1°C to 5.0°C)** at many places over Himachal Pradesh and Punjab and at isolated places over Haryana, Chandigarh & Delhi, Assam & Meghalaya and Nagaland Manipur, Mizoram & Tripura; **above normal (1.6°C to 3.0°C)** at many places over Kerala and South Interior Karnataka; at a few places over Coastal Andhra Pradesh, Tamilnadu and Saurashtra & Kutch and at isolated places over Sub-Himalayan West Bengal, They were **markedly above normal (-5.1°C and more)** at many places over Konkan & Goa, Madhya Maharashtra, Andaman & Nicobar and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Vidharbha and Telangana; **appreciably below normal (-3.1°C to -5.0°C)** at most places over South Interior Karnataka; at many places over Odisha, Bihar, Chhattisgarh; at a few places over Gangetic West Bengal, Jharkhand, West Rajasthan and at isolated places over Marathawada; **below normal (-1.6°C to -3.0°C)** at a few places over Rayalaseema and at isolated places over Gujarat State and Assam & Meghalaya near normal over rest parts of the country. Yesterday, the highest maximum temperature of **45.8°C** was reported at **Ganganagar (West Rajasthan)**.

◆ **Minimum Temperature Departures as on 10-06-2021:** Minimum temperatures are **markedly above normal (5.1°C and more)** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, Himachal Pradesh; **appreciably above normal (3.1°C to 5.0°C)** at many places over Punjab and Haryana, Chandigarh & Delhi and **above normal (1.6°C to 3.0°C)** at isolated places over Rajasthan, West Madhya Pradesh, west Bengal & Sikkim, Coastal Andhra Pradesh, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. They are **appreciably below normal (-3.1°C to 5.0°C)** at many places over East Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Konkan & Goa, Vidarbha, Chhattisgarh and Jharkhand; Marathwada; at a few places over Coastal Karnataka, Andaman & Nicobar Islands; at isolated places over Uttar Pradesh and Telangana and **near normal** over rest of the country. The lowest minimum temperature of **18.0°C** reported at Seoni and Mandla (**East Madhya Pradesh**) over the plains of the country.

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## Meteorological Analysis (Based on 0830 hours IST)

- ◆ Southwest Monsoon has further advanced into some more parts of south Gujarat region, remaining parts of Maharashtra, Telangana & Andhra Pradesh, some parts of south Madhya Pradesh, Chhattisgarh and south Odisha, remaining parts of central Bay of Bengal and most parts of North Bay of Bengal today, the 10th June, 2021.
- ◆ The Northern Limit of Monsoon (NLM) passes through lat. 20.0°N/ Long. 60°E, lat. 20.5°N/ Long. 70°E, Surat, Nandurbar, Betul, Mandla, Bilaspur, Bolangir, Puri, 22.5°N/89.5°E, 24.0°N/89.5°E and Baghdogra.
- ◆ Conditions are favourable for further advance of southwest monsoon into some more parts of Gujarat, Madhya Pradesh, remaining parts Chhattisgarh and Odisha, entire West Bengal and Jharkhand and some parts of Bihar and east Uttar Pradesh and remaining parts of north Bay of Bengal during next 48 hours.
- ◆ The cyclonic circulation over Eastcentral and adjoining Northeast Bay of Bengal now lies over Northwest Bay of Bengal and extends upto mid-tropospheric level. Under its influence, a Low Pressure Area is likely to form over Northwest Bay of Bengal & neighbourhood during next 24 hours. It is likely to become more marked during subsequent 24 hours and move west-northwestwards across Odisha.
- ◆ The trough at mean sea level now runs from north Punjab to Northeast Bay of Bengal across south Haryana, south Uttar Pradesh, central parts of Jharkhand, north Odisha and extends upto 0.9 km above mean sea level.
- ◆ A cyclonic circulation lies over south Uttar Pradesh and extends upto 1.5 km above mean sea level.
- ◆ The off shore trough from north Maharashtra coast to north Kerala coast persists.
- ◆ The cyclonic circulation over Eastcentral & adjoining North Arabian Sea now lies over Central parts of Arabian Sea between 3.1km & 5.8 km above mean sea level.
- ◆ A trough runs from the above cyclonic circulation over Central parts of Arabian Sea to Northeast Arabian Sea between 3.1km & 5.8 km above mean sea level.
- ◆ A cyclonic circulation lies over Central Pakistan & neighbourhood between 1.5 & 2.1 km above mean sea level.
- ◆ The trough from south Odisha to south Gujarat between 3.1 km & 5.8 km above mean sea level has become less marked.
- ◆ The trough between 1.5 km & 2.1 km above mean sea level roughly along Long. 88°E to the north of Lat. 22°N has become less marked.
- ◆ The trough from Sub-Himalayan West Bengal to south Odisha between 5.8 & 7.6 km above mean sea level has become less marked.
- ◆ The Western Disturbance as a trough roughly along Long. 70°E to the north of Lat. 30°N with its axis between 3.1 & 3.6 km above mean sea level has moved away east-northeastwards.

## Weather Forecast for next 5 days \* upto 0830 hours IST of 15th 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 and by 2-4°C over most parts of East India during next 4-5 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 15th June 2021 to 17th June 2021

- ◆ Fairly widespread to widespread rainfall with heavy to heavy falls at isolated places likely over parts of Central, East & Northeast India and along West coast.
- ◆ Scattered to fairly widespread rainfall with isolated heavy falls likely over parts of Northwest India and Islands.
- ◆ Isolated to scattered rainfall/thunderstorms likely over remaining parts of the country.

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Weather Warning during next 5 days \*

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

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Chhattisgarh, Odisha, Konkan & Goa and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, Telangana and Coastal Karnataka.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south & central & adjoining north Bay of Bengal ; 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.

11 June (Day 2): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. ♦ **Heat Wave Conditions** 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 Chhattisgarh; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Odisha; **Heavy to Very Heavy Rainfall** at a few places over Konkan & Goa and at isolated places over East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra (ghat areas), Telangana and Coastal Karnataka.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

12 June (Day 3): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Karnataka. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 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 Chhattisgarh and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Vidarbha and Odisha; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra (ghat areas) and Telangana and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

13 June (Day 4): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Madhya Maharashtra (ghat areas), Telangana and South Interior Karnataka and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

14 June (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and **Heavy Rainfall** at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

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

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

**% Station Reporting Rainfall**

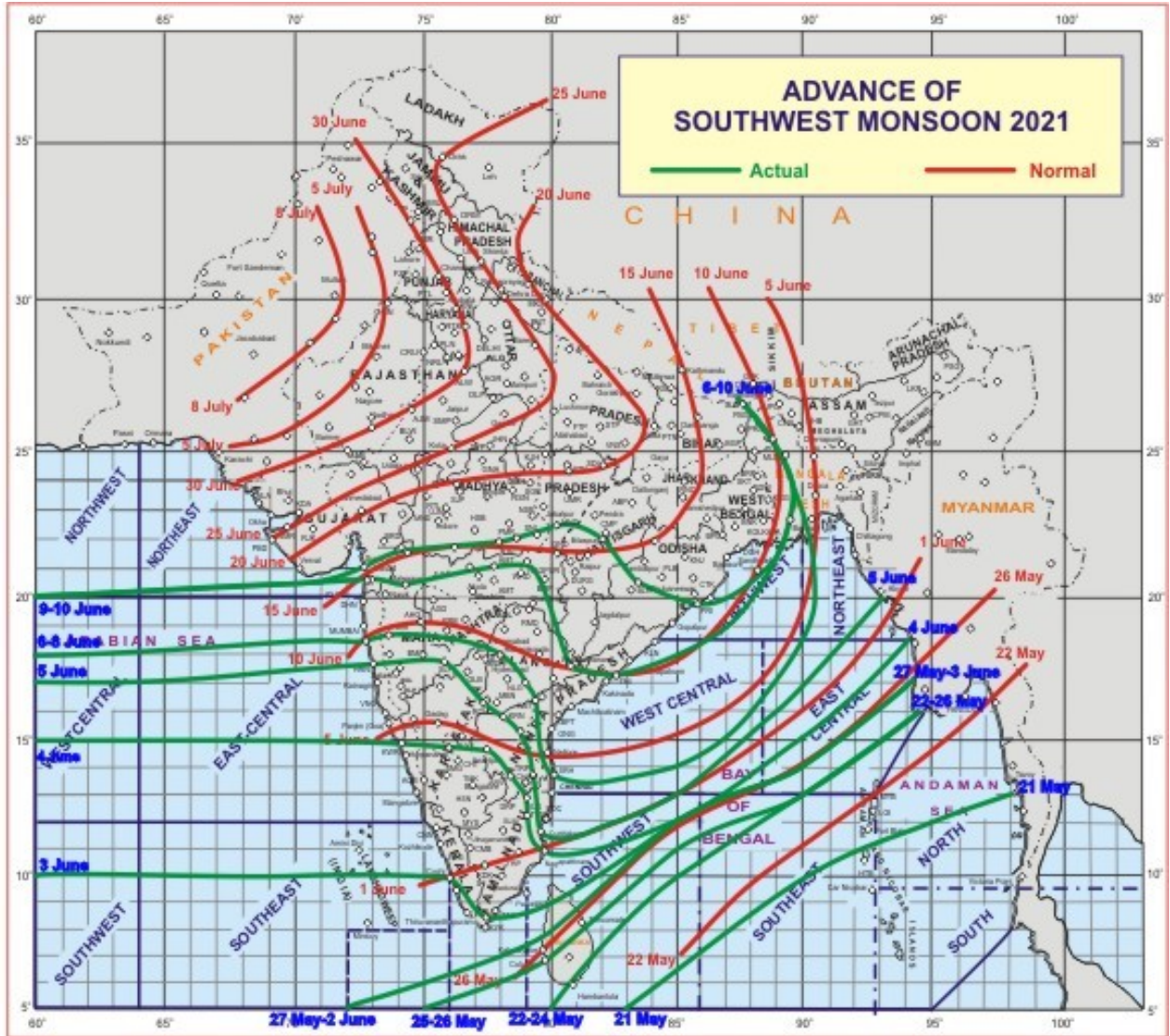
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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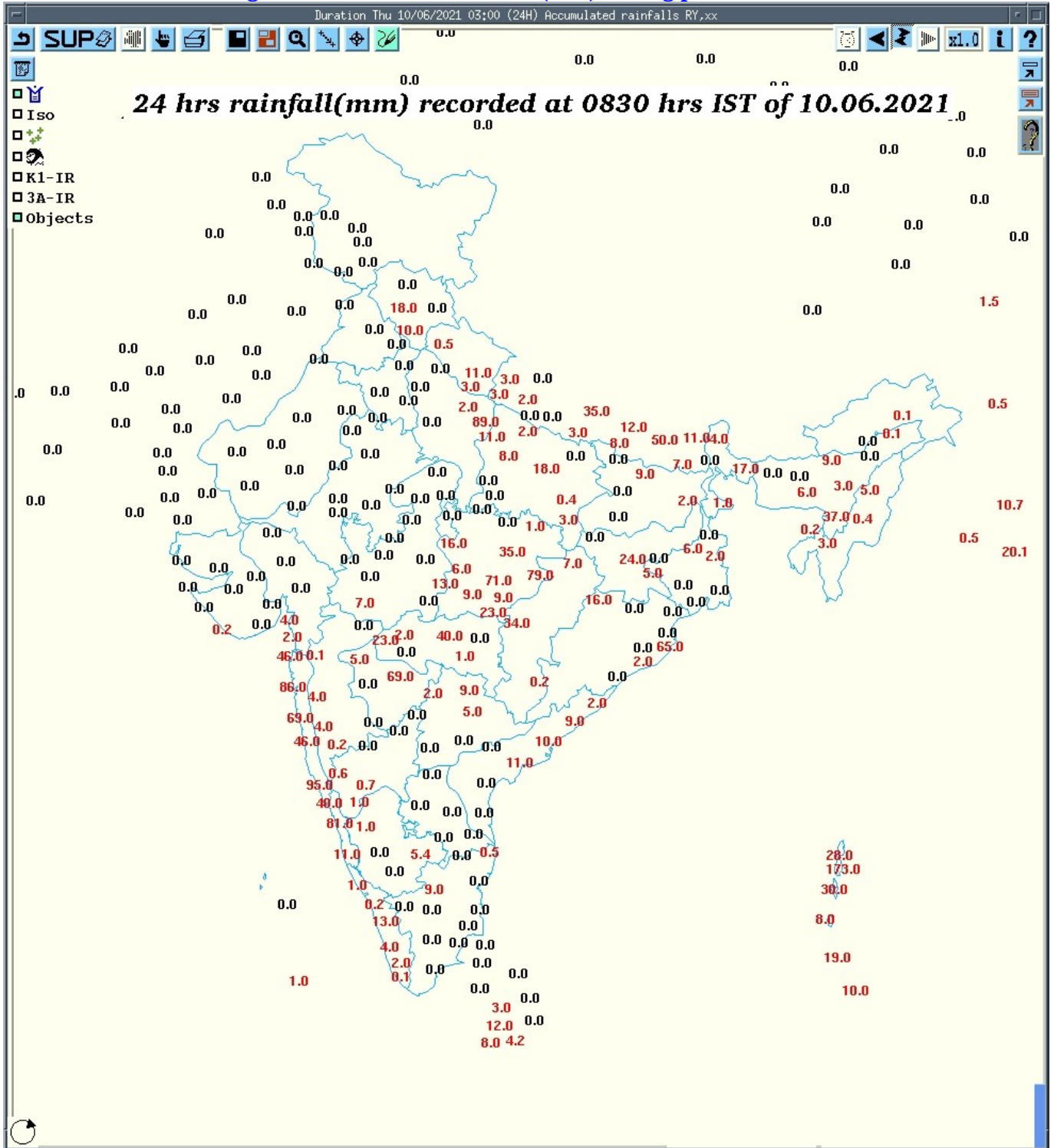
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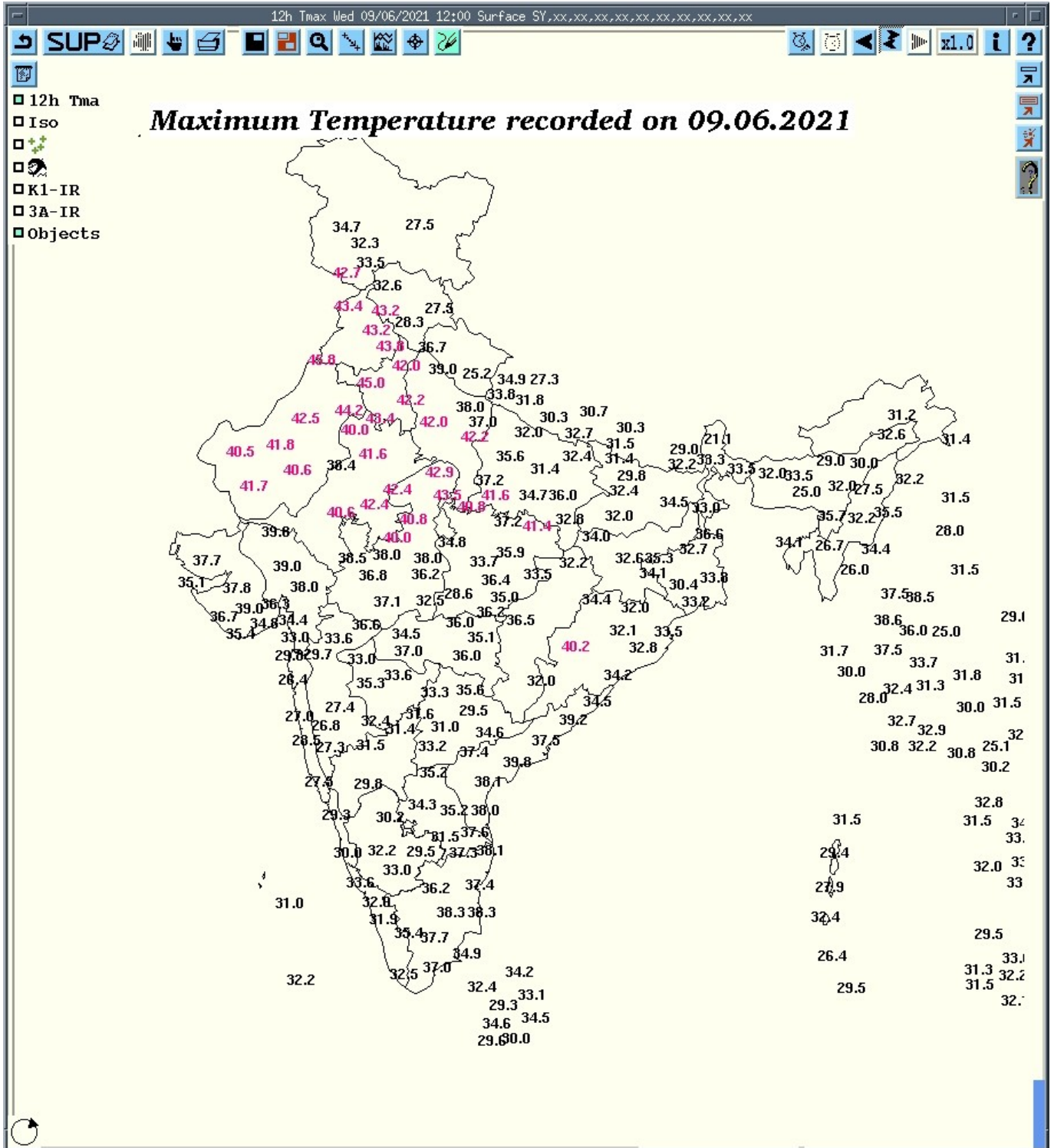
**Fig. 1: Accumulated Rainfall (mm) during past 24 hours**



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Fig. 2: Maximum Temperature during past 24 hours



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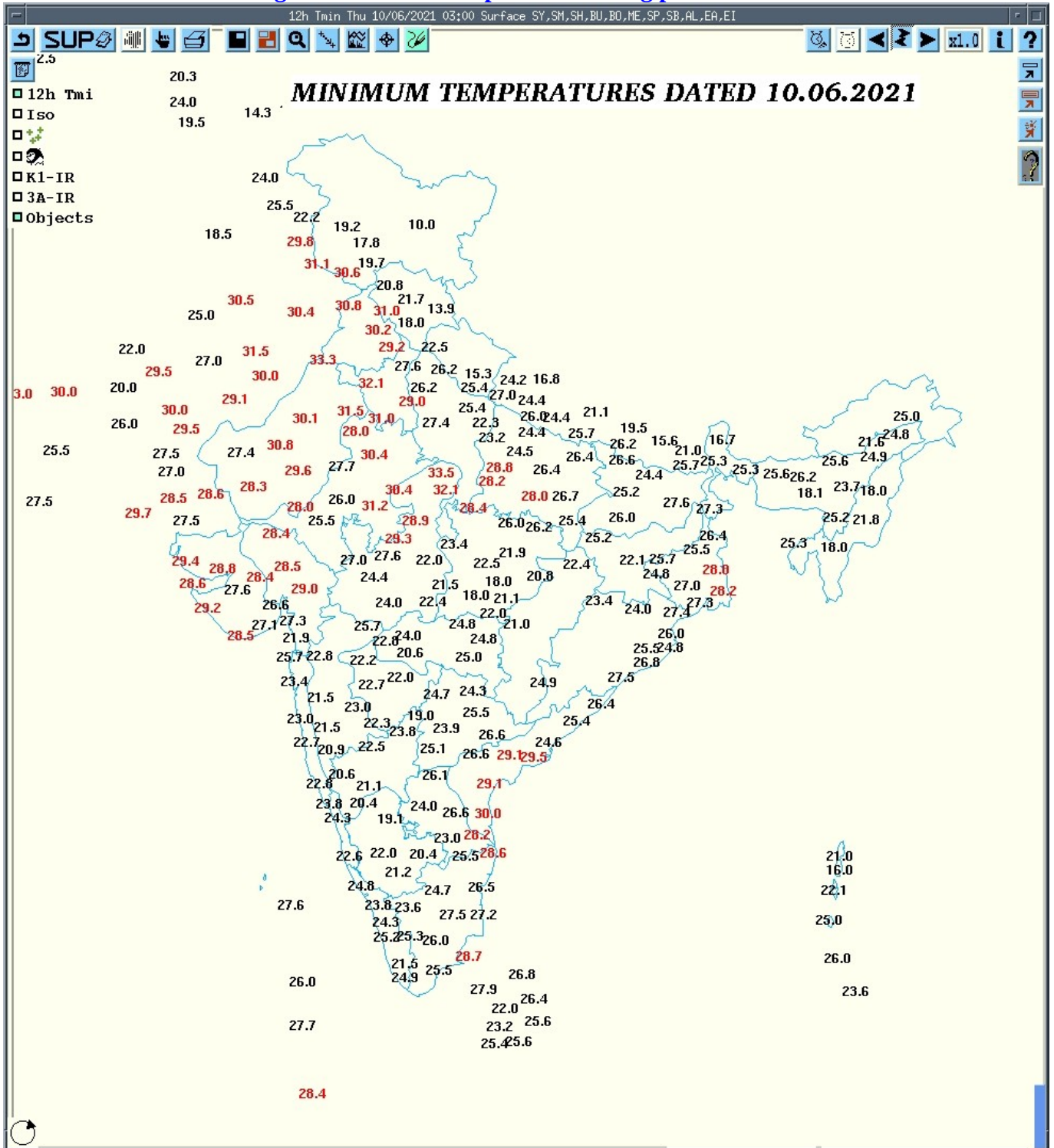
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Fig. 3: Minimum Temperature during past 24 hours



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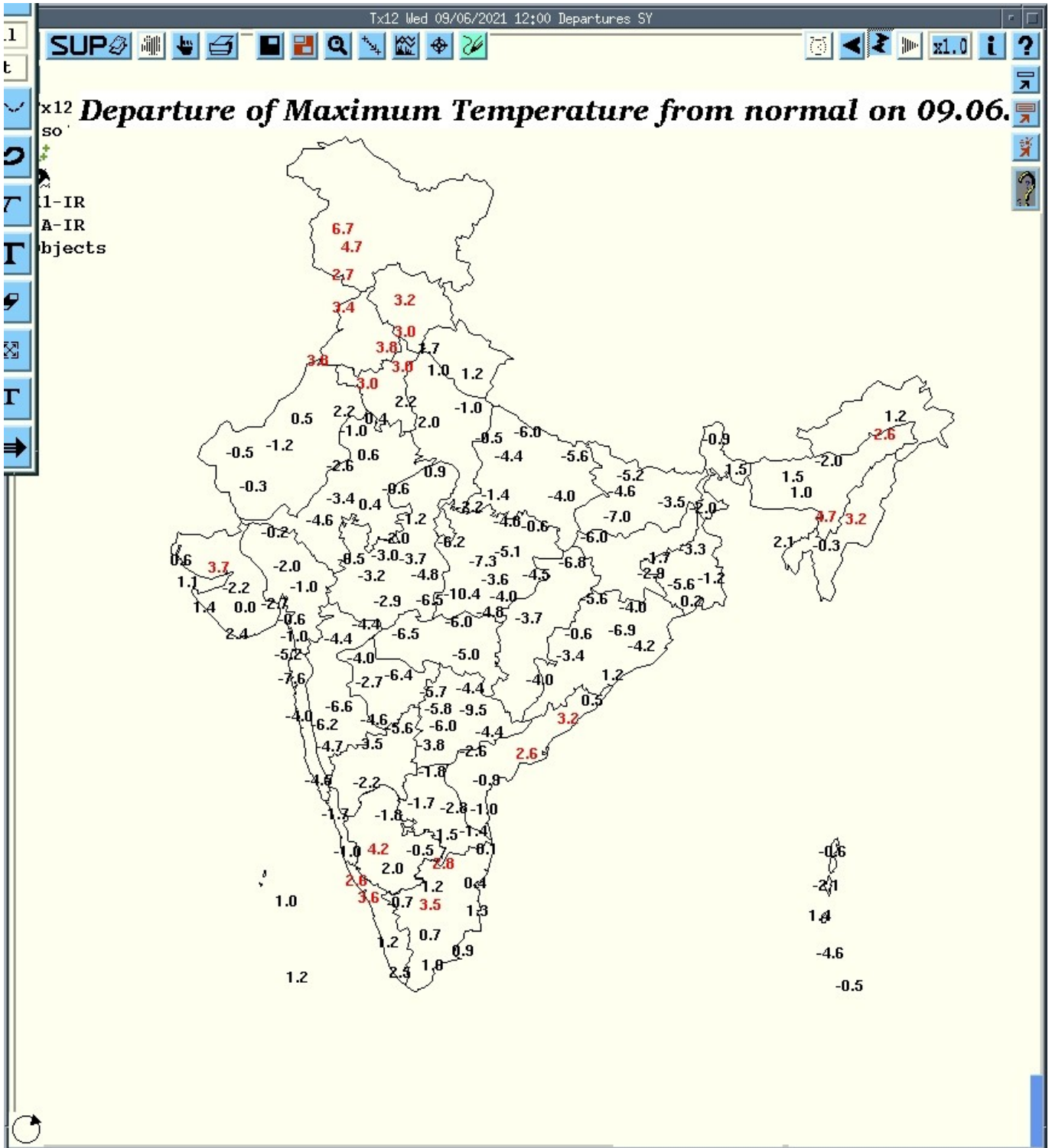
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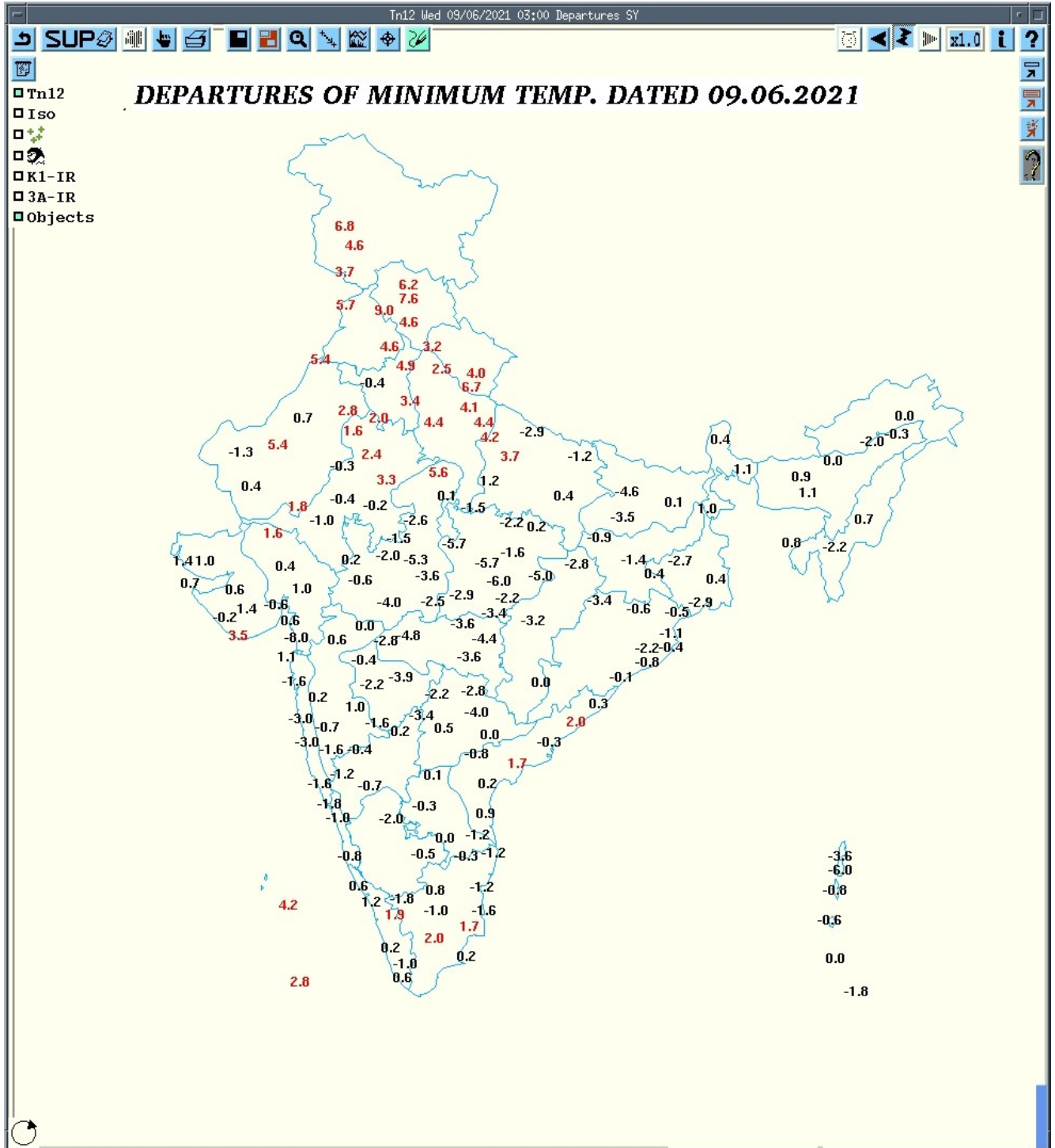
Fig. 4 : Departure from Normal of Maximum Temperatures



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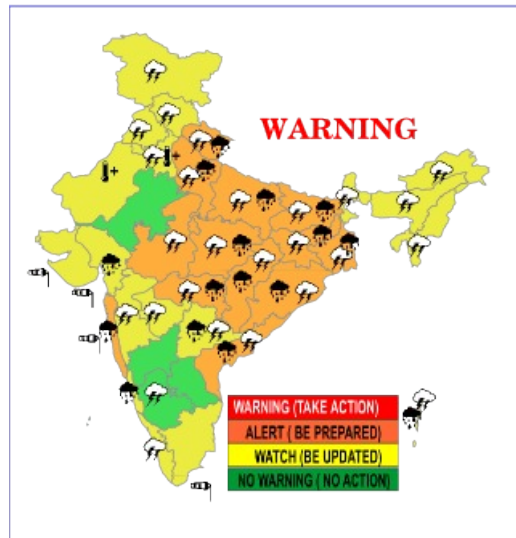
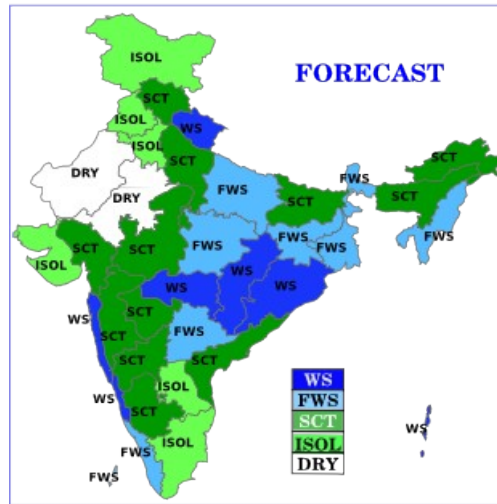
Fig. 5 : Departure from Normal of Minimum Temperatures



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(Copies to the Meteorologist (GPO))

## Thursday 10 June 2021



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

♦ **Heavy to Very Heavy Rainfall** at isolated places very likely over Chhattisgarh, Odisha, Konkan & Goa and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Gujarat Region, Telangana and Coastal Karnataka.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south & central & adjoining north Bay of Bengal ; 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.

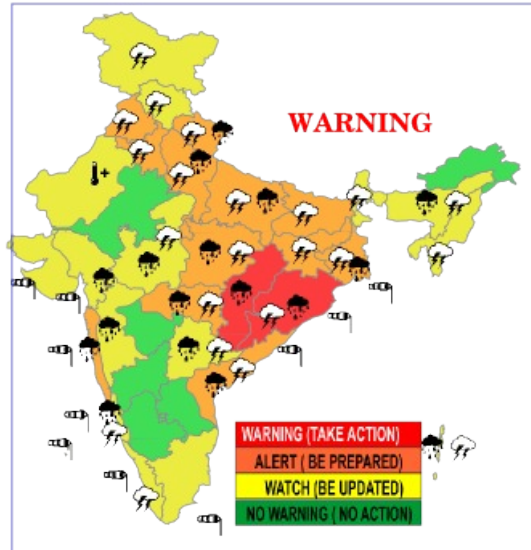
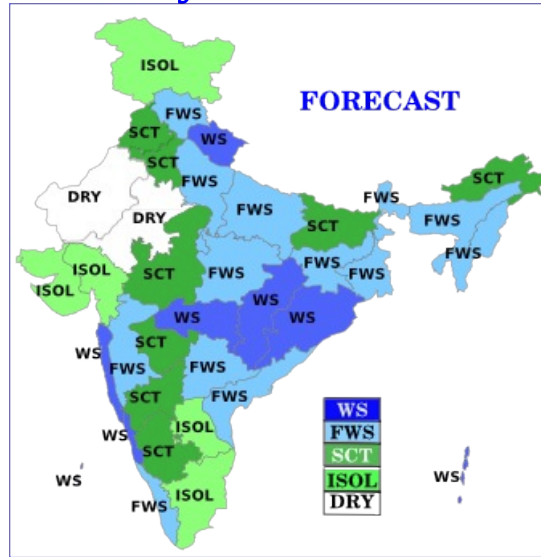
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(Copies to the Meteorologist (GPO))

## Friday 11 June 2021



11 June (Day 2): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand and Telangana and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and Kerala & Mahe. ♦ **Heat Wave Conditions** 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 Chhattisgarh; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Odisha; **Heavy to Very Heavy Rainfall** at a few places over Konkan & Goa and at isolated places over East Madhya Pradesh, Vidarbha and Coastal Andhra Pradesh & Yanam and **Heavy Rainfall** at isolated places over Uttarakhand, Uttar Pradesh, West Madhya Pradesh, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra (ghat areas), Telangana and Coastal Karnataka.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

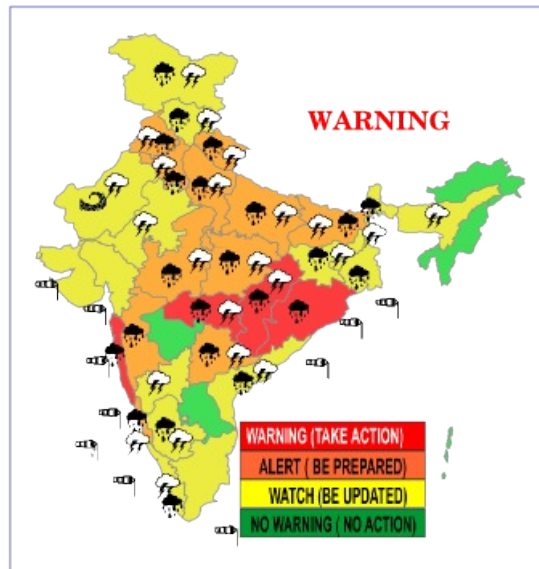
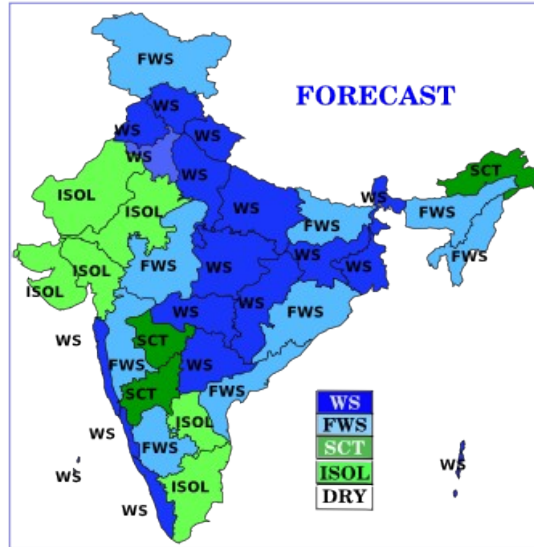
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## Saturday 12 June 2021



12 June (Day 3): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places very likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Karnataka. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 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 Chhattisgarh and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over Vidarbha and Odisha; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Madhya Maharashtra (ghat areas) and Telangana and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

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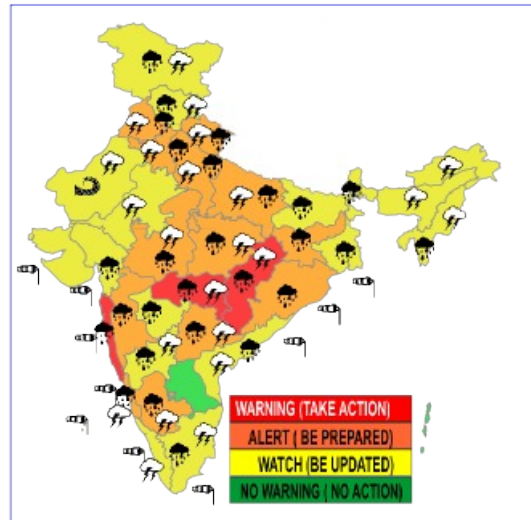
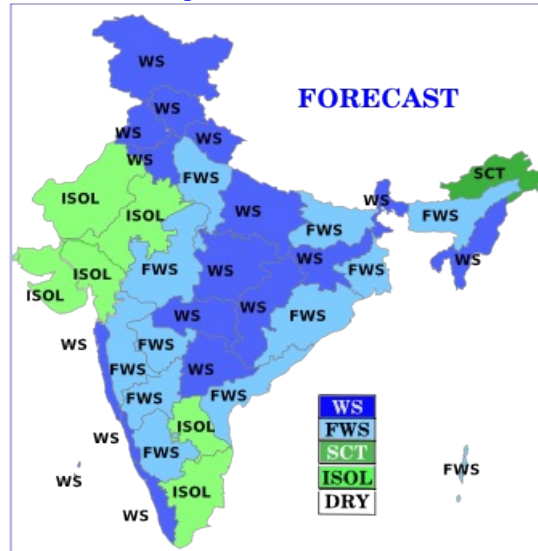
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## Sunday 13 June 2021



13 June (Day 4): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puducherry & Karaikal. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places over East Madhya Pradesh, Vidarbha and Chhattisgarh; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over West Madhya Pradesh, Jharkhand, Odisha, Madhya Maharashtra (ghat areas), Telangana and South Interior Karnataka and **Heavy Rainfall** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, south Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

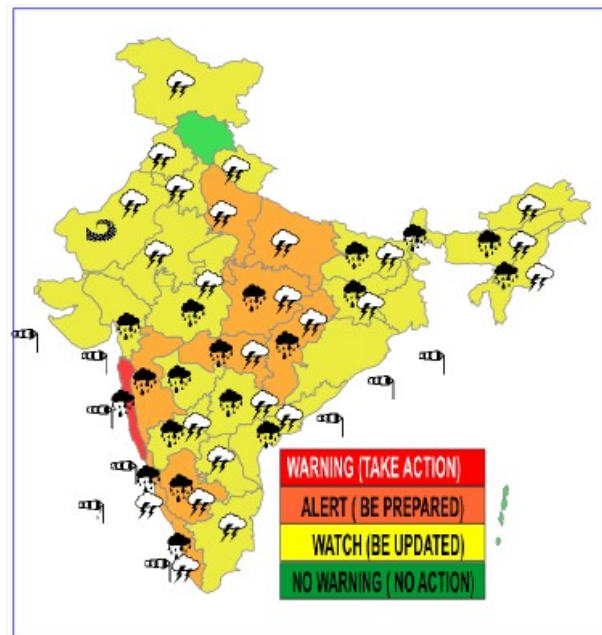
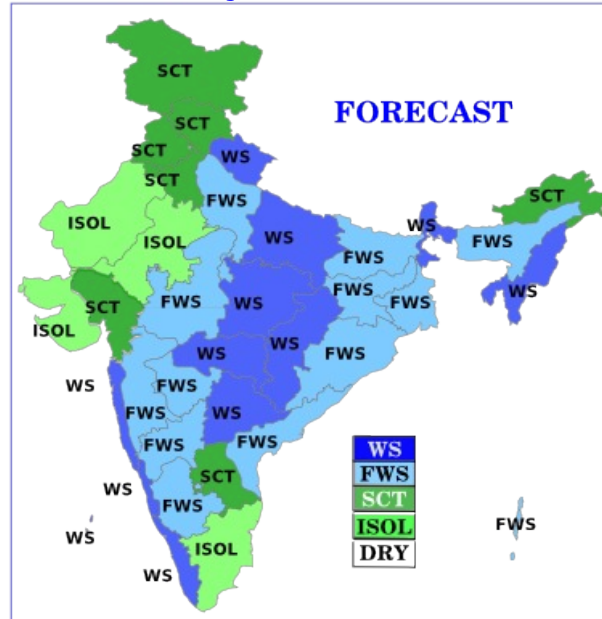
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## Monday 14 June 2021



14 June (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Karnataka and Tamil Nadu, Puduchery & Karaikal. ♦ **Thunderstorm/Duststorm with gusty winds (speed reaching 30-40 kmph)** at isolated places likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at a few places over Coastal Karnataka and at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra (ghat areas), South Interior Karnataka and Kerala & Mahe and **Heavy Rainfall** at isolated places over West Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka.

♦ **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-Karnataka-Kerala coasts. Fishermen are advised not to venture into these areas.

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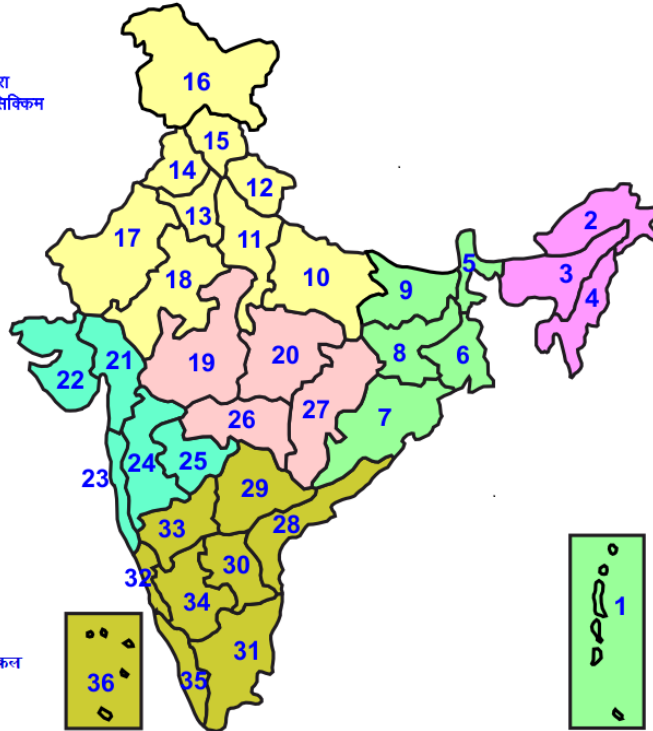
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## LEGENDS

- 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 एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



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

## SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

## WARNING

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

## Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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## 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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