

Wednesday 09 June 2021

MID-DAY

Time of Issue: 1430 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ Southwest Monsoon has further advanced into entire central and some parts of north Arabian Sea, entire Konkan including Mumbai and most parts of interior Maharashtra, some parts of south Gujarat region, some more parts of Telangana and Andhra Pradesh, most parts of central Bay of Bengal and some more parts of North Bay of Bengal today, the 9th June 2021.
- ◆ The Northern Limit of Monsoon (NLM) passes through lat. 21.5°N/ Long. 65°E, lat. 22.0°N/ Long. 70°E, Bulsar, Malegaon, Nagpur, Bhadrachalam, Tuni, lat. 19°N/ Long. 87.0°E, 22.5°N/89.5°E and 24.0°N/89.5°E and Bagdogra.
- ◆ Southwest Monsoon is likely to advance into remaining parts of Arabian Sea and Maharashtra, some more parts of Gujarat, remaining parts of Telangana, Andhra Pradesh, some parts of Madhya Pradesh and East Uttar Pradesh, entire Odisha, West Bengal, Jharkhand, Chhattisgarh and Bihar during next 2-3 days.
- ◆ A cyclonic circulation lies over Eastcentral and adjoining Northeast Bay of Bengal between 4.5 & 5.8 km above mean sea level. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. It is likely to be more marked during subsequent 24 hours. 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 and adjoining Central India from 10th June onwards. **Isolated extremely heavy falls** also very likely over Odisha on 11th & 12th; over Chhattisgarh 11th-13th; over Vidarbha 12th & 13th, June 2021.
- ◆ Due to the strengthening of westerly winds along the west coast; enhanced rainfall activity with heavy falls likely to continue along the West coast including Maharashtra and Telangana during next 5 days. **Isolated extremely heavy falls** also very likely over Konkan & Goa during next 5 days.
- ◆ Ahead of the monsoon onset, fairly widespread thunderstorm activity accompanied by frequent cloud to ground lightning is likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Bengal, Jharkhand and Bihar during the next 2-3 days.
- ◆ Dust raising strong surface winds (30-40 kmph) very likely to prevail over plains of Northwest India during 09th & 10th June.

Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at **most places** over Konkan & Goa, East Madhya Pradesh, Vidarbha, Coastal Karnataka, Kerala & Mahe, Chhattisgarh, Bihar, West Bengal & Sikkim, Arunachal Pradesh and Andaman & Nicobar Islands; at many places over Madhya Maharashtra, Odisha and Assam & Meghalaya; at a few places over Marathwada, West Madhya Pradesh, Telangana, Tamil Nadu, Puducherry & Karaikal, East Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura and at isolated places over Gujarat State, Interior Karnataka and Coastal Andhra Pradesh & Yanam.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more): Patan (Durg)-14; Nichlaul (Maharjganj), Tuting-13 each; Magarlod (Dhamtari), Chanpaia, Hanamkonda-12; Ratnagiri, Chidambaram (Cuddalore), Panvel and Gangtok-11 each; Mathunagari, Paramaxudi (Ramanathapuram), Kankavli, Shriwardhan, Neora, Long Islands-10 each; Forbesganj, Port Blair, Gyaraspur (Vidisha), Tamta (Chindwara), Jintur (Parbhani), Vasai, Hut Bay-9 each; Alipurduar, Goalpara, Knnod (Dewas), Sehore (Dewas), Kesli (Sagar), South Binajpur, Sonepur, Colaba, and Multai-8; Harnai, Tadong, North Lakhimpur, Angul, Himdol, Khatgaon (Dewas), JuJumura, Murud, Mormugaon and Bhainsdehi (Betul), Pangarh, Konni-7 each.
- ◆ **Heavy to very heavy rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Bihar, East Uttar Pradesh, Arunachal Pradesh, Telangana, and **Heavy rainfall** at isolated places over Konkan & Goa, Madhya Pradesh, Odisha, Marathwada, Tamilnadu, Puducherry & Karaikal, West Bengal & Sikkim, Assam & Meghalaya, Kerala & Mahe and Andaman & Nicobar Island.
- ◆ **Thunderstorm observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Uttar Pradesh, Bihar, Odisha, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Jharkhand, Chhattisgarh, Konkan & Goa, Telangana, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ◆ **Maximum Temperature Departures as on 08-06-2021:** Maximum temperature were **markedly above normal (5.1°C and more)** most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad and at isolated places over south Interior Karnataka and Interior Tamil Nadu; **appreciably above normal (3.1°C to 5.0°C)** at a few places over Kerala; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Himachal Pradesh and Haryana, Chandigarh & Delhi; at many places over Uttarakhand; at a few places over Bihar, West Uttar Pradesh and Coastal Andhra Pradesh & Yanam and at isolated places over Gangetic West Bengal, West Rajasthan, Odisha and coastal Karnataka. They were **appreciably below normal (-3.1°C to -5.0°C)** at many places over Vidarbha; at a few places over Andaman & Nicobar Island and East Rajasthan and at isolated places over Chhattisgarh; **below normal (-1.6°C to -3.0°C)** at most places over Madhya Maharashtra, Marathwada and Madhya Pradesh; at many places over Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and North Interior Karnataka; at a few places over Arunachal Pradesh, Assam & Meghalaya, East Uttar Pradesh, Gujarat Region and Telangana and at isolated places over Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of **45.1°C** was reported at **Ganganagar (West Rajasthan)**.
- ◆ **Minimum Temperature Departures as on 09-06-2021:** Minimum temperatures are **markedly above normal (5.1°C and more)** at a few places over Himachal Pradesh and Punjab and at isolated places over West Rajasthan; **appreciably above normal (3.1°C to 5.0°C)** at many places over Uttarakhand; at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan, & Muzaffarabad, West Uttar Pradesh and Haryana, Chandigarh & Delhi and at isolated places over East Uttar Pradesh and **above normal (1.6°C to 3.0°C)** at isolated places over East Rajasthan, Coastal Andhra Pradesh and Lakshadweep. They are **appreciably below normal (-3.1°C to 5.0°C)** at many places over Vidarbha; at a few places over East Madhya Pradesh, Bihar and Telangana and at isolated places over West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands; **below normal (-1.6°C to -3.0°C)** at most places over Konkan & Goa and Marathwada; at a few places over Coastal Karnataka, Chhattisgarh and west Bengal & Sikkim and at isolated places over Gangetic West Bengal and **near normal** over rest of the country. Today, the lowest minimum temperature of **18.6°C** is reported at Shirali (**Coastal Karnataka**) over the plains of the country.

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Meteorological Analysis (Based on 0830 hours IST)

- ◆ Southwest Monsoon has further advanced into entire central and some parts of north Arabian Sea, entire Konkan including Mumbai and most parts of interior Maharashtra, some parts of south Gujarat region, some more parts of Telangana and Andhra Pradesh, most parts of central Bay of Bengal and some more parts of North Bay of Bengal today, the 9th June 2021.
- ◆ The Northern Limit of Monsoon (NLM) passes through lat. 21.5°N/ Long. 65°E, lat. 22.0°N/ Long. 70°E, Bulsar, Malegaon, Nagpur, Bhadrachalam, Tuni, lat. 19°N/ Long. 87.0°E, 22.5°N/89.5°E and 24.0°N/89.5°E and Bagdogra.
- ◆ Southwest Monsoon is likely to advance into remaining parts of Arabian Sea and Maharashtra, some more parts of Gujarat, remaining parts of Telangana, Andhra Pradesh, some parts of Madhya Pradesh and East Uttar Pradesh, entire Odisha, West Bengal, Jharkhand, Chhattisgarh and Bihar during next 2-3 days.
- ◆ A cyclonic circulation lies over Eastcentral and adjoining Northeast Bay of Bengal between 4.5 & 5.8 km above mean sea level. Under its influence, a Low Pressure Area is likely to form over North Bay of Bengal & neighbourhood around 11th June, 2021. it is likely to more marked during subsequent 24 hours.
- ◆ The trough at mean sea level from East Uttar Pradesh to Northeast Bay of Bengal now runs from southeast Uttar Pradesh to Northeast Bay of Bengal across Jharkhand and Southern Parts of Gangetic West Bengal.
- ◆ An off shore trough runs from north Maharashtra coast to north Kerala coast.
- ◆ The cyclonic circulation over Eastcentral & adjoining North Arabian Sea now seen between 4.5 & 5.8 km above mean sea level.
- ◆ A trough runs from south Odisha to south Gujarat between 3.1 & 5.8 km above mean sea level.
- ◆ 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 persists.
- ◆ A trough runs from Sub-Himalayan West Bengal to south Odisha between 5.8 & 7.6 km above mean sea level.
- ◆ A fresh western disturbance as a trough runs 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.
- ◆ The trough roughly along Long. 84°E to the north of Lat. 26°N with its axis at 5.8 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over central Assam & neighborhood at 0.9 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over south Gujarat & neighborhood at 1.5 km above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 14th 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 24 hours and fall by 3-5°C subsequent 4 days.
- ◆ No significant change in maximum temperature over most parts of East India during next 2 days and fall by 3-5°C thereafter.
- ◆ No significant change in maximum temperature over rest parts of the country during next 4-5 days.

Weather Outlook for subsequent 2 days from 14th June 2021 to 16th 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.



Weather Warning during next 5 days *

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09 June (Day 1): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over West Madhya Pradesh and Andaman & Nicobar Islands; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Kerala & Mahe and **with lightning** at isolated places over East Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave Conditions** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Telangana and **Heavy Rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Madhya Maharashtra.

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

10 June (Day 2): ♦ Thunderstorm 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 Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha and Kerala & Mahe and **with lightning** at isolated places over West Madhya Pradesh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Chhattisgarh and Odisha and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Telangana, Coastal 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 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 3): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand and Uttar Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Andaman & Nicobar Islands and Kerala & Mahe and **with lightning** at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Odisha and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Chhattisgarh; **Heavy to Very Heavy Rainfall** at isolated places over Gangetic West Bengal and Telangana and **Heavy Rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Assam & Meghalaya, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, Coastal 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 and North Bay of Bengal and along & off Odisha-Andhra Pradesh-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and **speed reaching 40-50 kmph** over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala-Karnataka coasts. Fishermen are advised not to venture into these areas.

12 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, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar Islands and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Telangana, Interior Karnataka and Lakshadweep.

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

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

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

♦ **Thunderstorm/Duststorm** with lightning & 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 Chhattisgarh and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places likely over Vidarbha; **Heavy to Very Heavy Rainfall** at a few places over Telangana and Coastal Karnataka and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Odisha, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, South 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, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat Region, Marathwada, North Interior Karnataka and Lakshadweep.

♦ **Strong Winds (speed 40-50 kmph gusting to 60 kmph)** very likely over Southwest & adjoining Westcentral Arabian Sea and south, central and North Bay

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

Met-Sub-Division	09-Jun Today	10Jun Thu	11Jun Fri	12Jun Sat	13Jun Sun
1. Andaman & Nicobar Islands	WS	WS	WS	FWS	FWS
2. Arunachal Pradesh	FWS	FWS	SCT	SCT	SCT
3. Assam & Meghalaya	FWS	FWS	FWS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	WS
5. S.H. West Bengal & Sikkim	WS	FWS	FWS	WS	WS
6. Gangetic West Bengal	FWS	WS	WS	WS	WS
7. Odisha	FWS	WS	WS	WS	WS
8. Jharkhand	SCT	SCT	FWS	WS	WS
9. Bihar	SCT	FWS	FWS	WS	WS
10. East Uttar Pradesh	SCT	SCT	FWS	WS	WS
11. West Uttar Pradesh	ISOL	ISOL	SCT	FWS	WS
12. Uttarakhand	ISOL	ISOL	FWS	WS	WS
13. Haryana, Chd & Delhi	DRY	DRY	ISOL	FWS	FWS
14. Punjab	DRY	DRY	ISOL	FWS	FWS
15. Himachal Pradesh	ISOL	ISOL	ISOL	WS	WS
16. J & K and Ladakh	DRY	DRY	ISOL	SCT	WS
17. West Rajsthan	DRY	DRY	DRY	DRY	ISOL
18. East Rajasthan	DRY	DRY	DRY	ISOL	ISOL
19. West Madhya Pradesh	SCT	SCT	SCT	FWS	FWS
20. East Madhya Pradesh	FWS	FWS	FWS	FWS	WS
21. Gujarat Region	ISOL	ISOL	ISOL	SCT	SCT
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	ISOL	SCT
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	SCT	SCT	FWS	FWS	FWS
25. Marathawada	SCT	SCT	SCT	SCT	SCT
26. Vidharbha	FWS	WS	WS	WS	WS
27. Chhattisgarh	WS	WS	WS	WS	WS
28. Coastal A. P. & Yanam	SCT	SCT	FWS	FWS	WS
29. Telangana	FWS	FWS	FWS	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	ISOL	ISOL	FWS	FWS
34. South Interior Karnataka	SCT	SCT	SCT	FWS	WS
35. Kerala & Mahe	FWS	FWS	WS	WS	WS
36. Lakshadweep	FWS	FWS	WS	WS	WS

% Station Reporting Rainfall

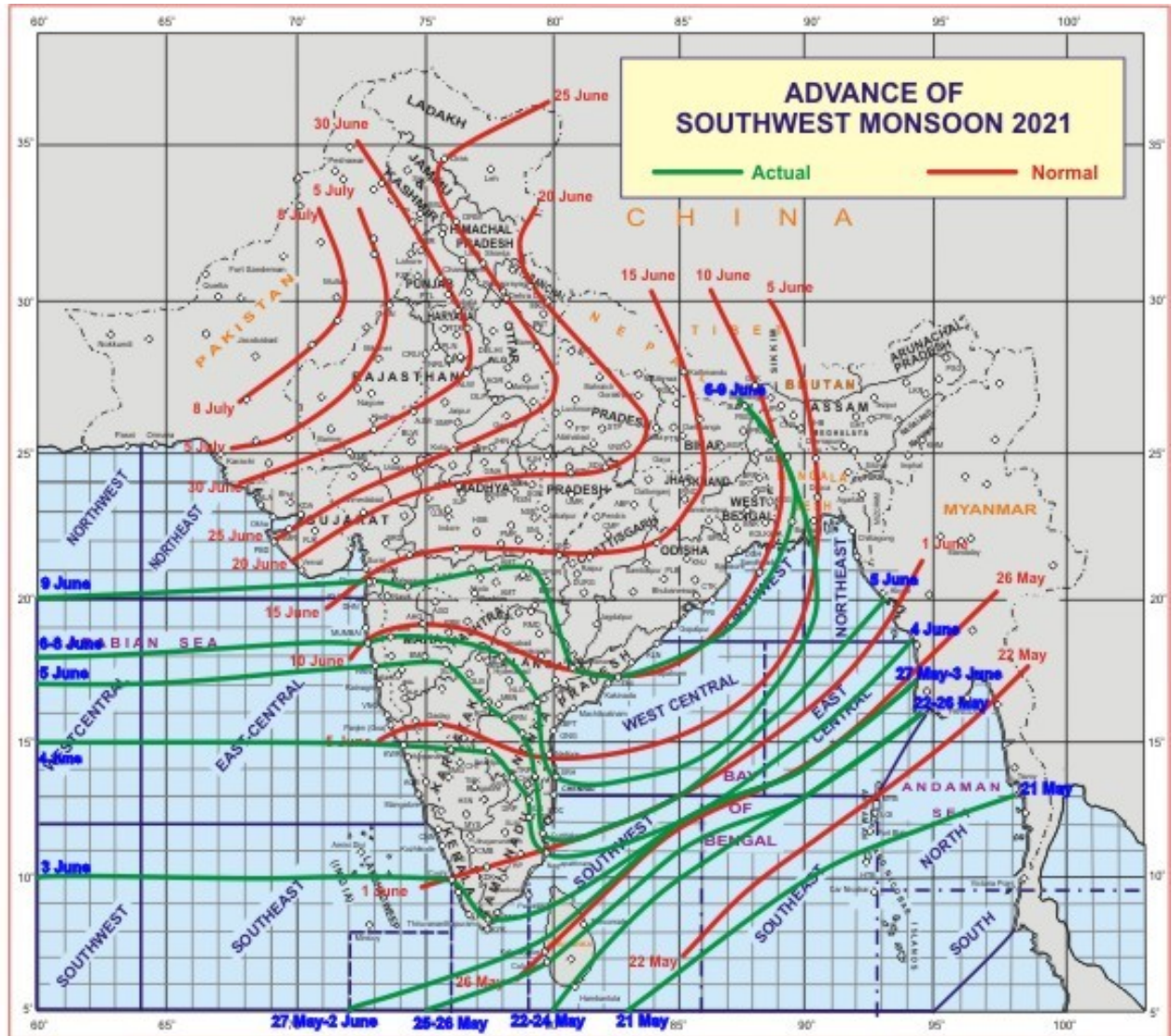
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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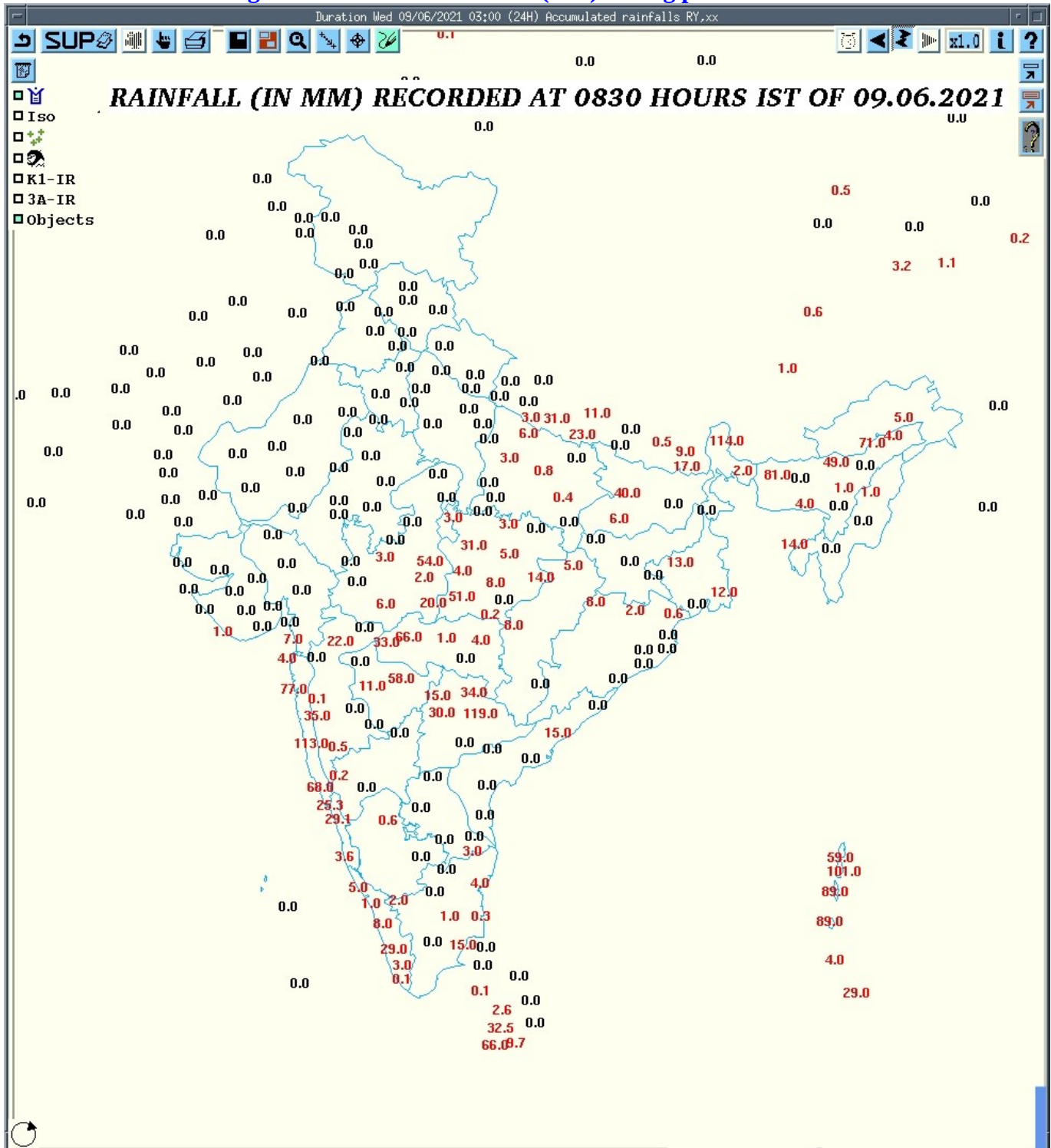
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



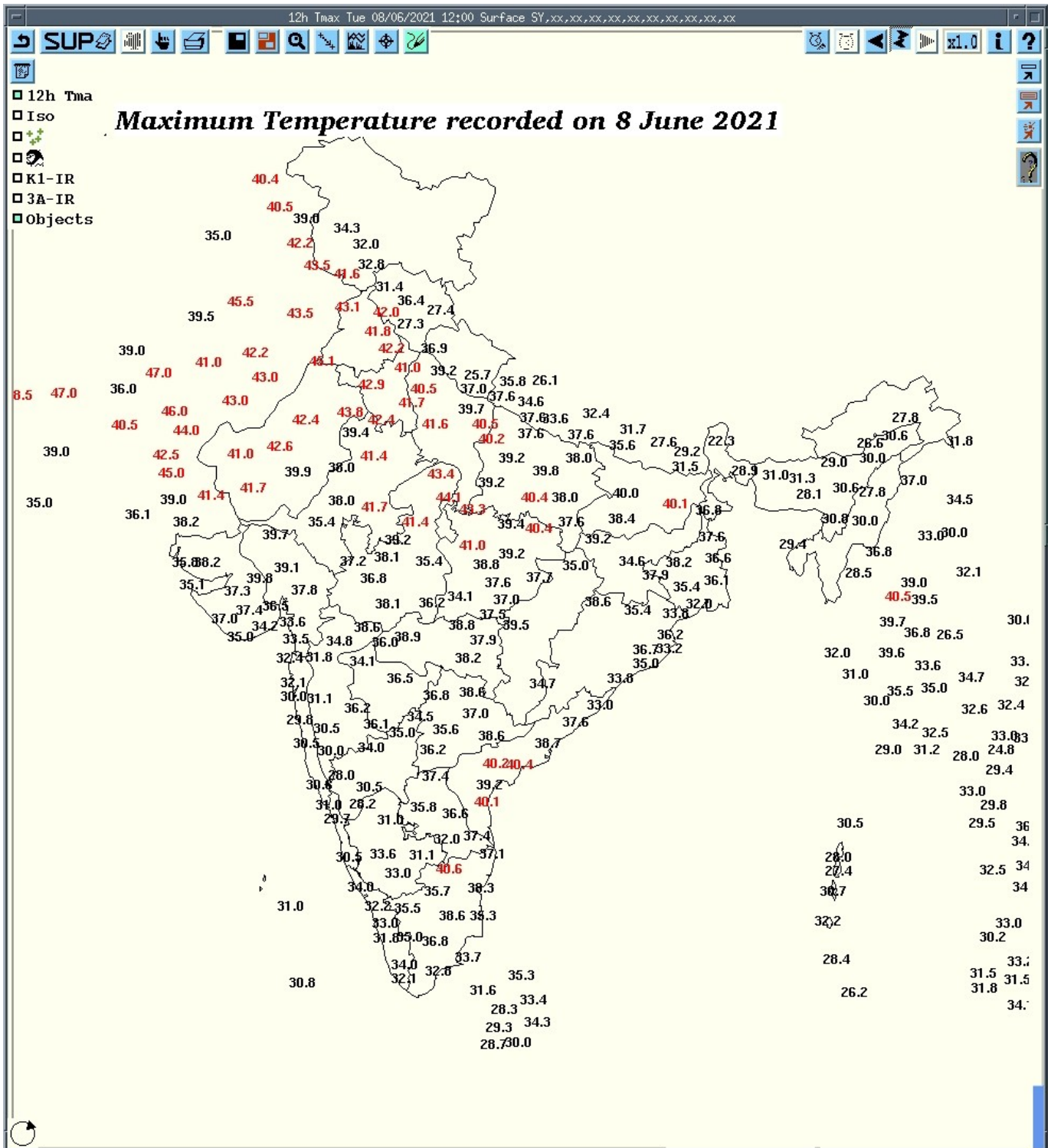
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(Owing to the Motion class 4075)

Fig. 2: Maximum Temperature during past 24 hours



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12h Tmin Med 09/06/2021 03:00 Surface SY,xx,xx,xx,xx,xx,xx,xx,xx,xx,xx

3.7

23.7

MINIMUM TEMPERATURES DATED 09.06.2021

12h Tmi 23.7

Iso 26.2

12.0

19.0

21.5

17.0

25.0

22.6

16.5

19.8

16.8

19.2

29.7

22.4

22.6

13.5

29.0

20.6

20.8

25.1

30.6

29.9

27.5

17.0

19.0

16.0

29.7

29.8

26.4

26.2

23.3

24.1

24.0

25.2

18.0

21.0

20.6

21.4

23.5

23.0

23.7

22.0

26.0

24.2

25.9

18.0

18.2

20.0

20.7

17.8

25.8

27.0

27.1

27.2

23.5

27.7

23.2

22.6

23.3

26.4

26.4

24.1

25.5

24.9

27.2

27.9

27.3

29.2

29.7

29.2

29.9

26.8

26.8

24.7

23.0

20.5

24.7

26.8

25.8

26.6

26.9

25.1

28.2

25.6

25.2

25.0

23.7

21.4

23.0

22.0

24.6

27.0

23.4

24.4

24.8

24.6

27.8

26.6

28.4

29.2

24.6

24.4

23.2

22.2

23.0

23.2

19.8

22.4

21.3

23.0

22.3

22.4

24.2

25.5

28.0

27.2

29.7

27.7

27.2

25.0

25.2

23.8

23.6

24.4

24.6

23.5

23.4

24.6

24.4

24.1

25.3

24.9

26.6

27.2

24.6

23.4

23.4

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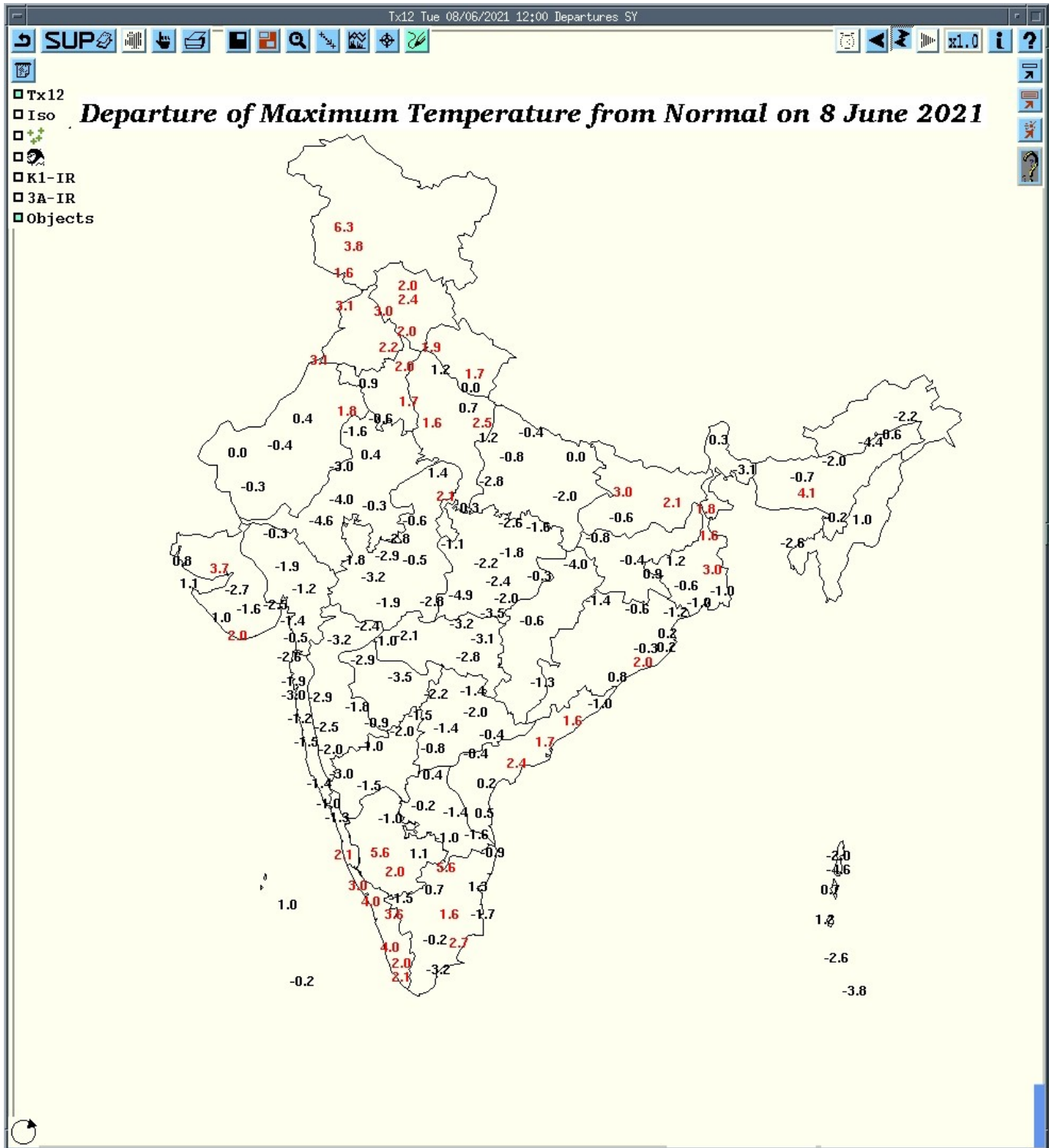
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(Committed to the Nation since 1875)

Fig. 4 : Departure from Normal of Maximum Temperatures



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(Created by the MetInfo since 1977)

Tn12 Wed 09/06/2021 03:00 Departures SY

SUP

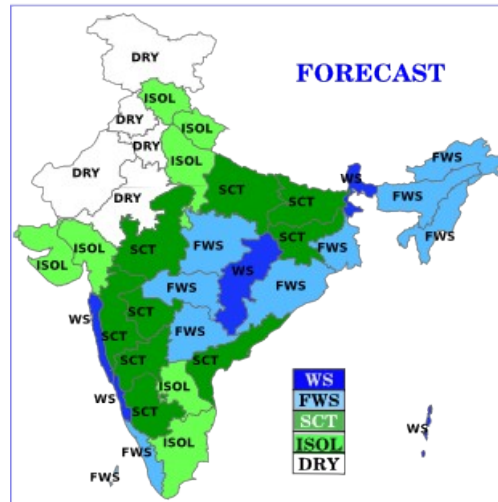
Tn12
Iso
K1-IR
3A-IR
Objects

DEPARTURES OF MINIMUM TEMP. DATED 09.06.2021

Map showing Minimum Temperature Departures (Tn12) for June 9, 2021. The map displays various numerical values across the country, indicating temperature anomalies. The legend on the left lists the data source (Tn12) and the type of departure (Iso, K1-IR, 3A-IR, Objects). The map shows a mix of positive and negative departures, with some areas showing significant positive anomalies (e.g., 6.8, 9.0, 7.6) and others showing negative anomalies (e.g., -3.6, -6.0, -0.8).

(Connect to the Nation since 1975)

Wednesday 09 June 2021



09 June (Day 1): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph)** at isolated places very likely over West Madhya Pradesh and Andaman & Nicobar Islands; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha and Kerala & Mahe and **with lightning** at isolated places over East Madhya Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heat Wave Conditions** at isolated places very likely over West Rajasthan.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Telangana and **Heavy Rainfall** at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Madhya Maharashtra.

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

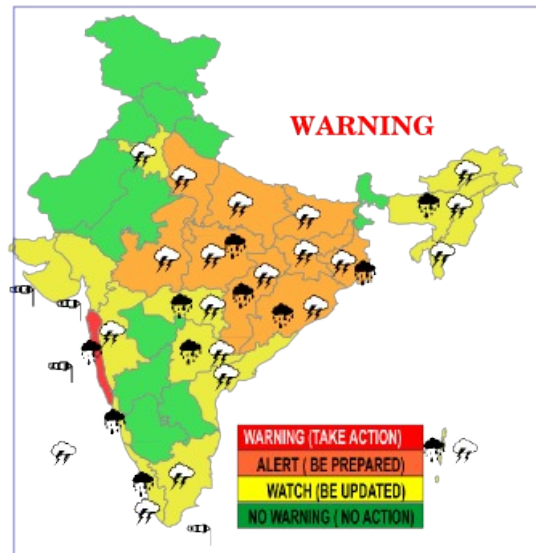
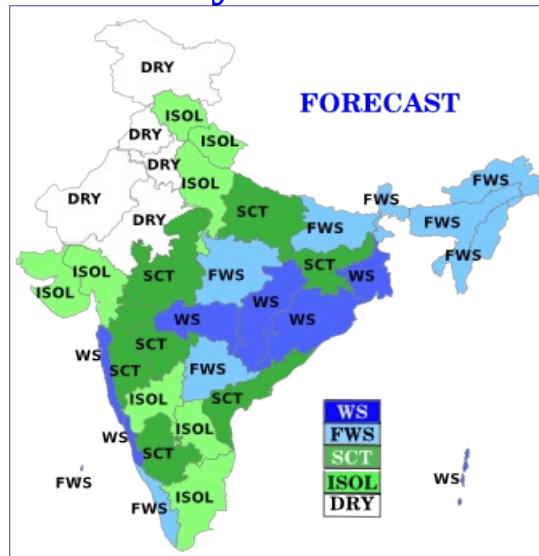
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(Created by the Meteo since 1979)

Thursday 10 June 2021



10 June (Day 2): ♦ Thunderstorm 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 Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha and Kerala & Mahe and **with lightning** at isolated places over West Madhya Pradesh, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at isolated places over Chhattisgarh and Odisha and **Heavy Rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Gangetic West Bengal, Andaman & Nicobar Islands, Assam & Meghalaya, Telangana, Coastal 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 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.

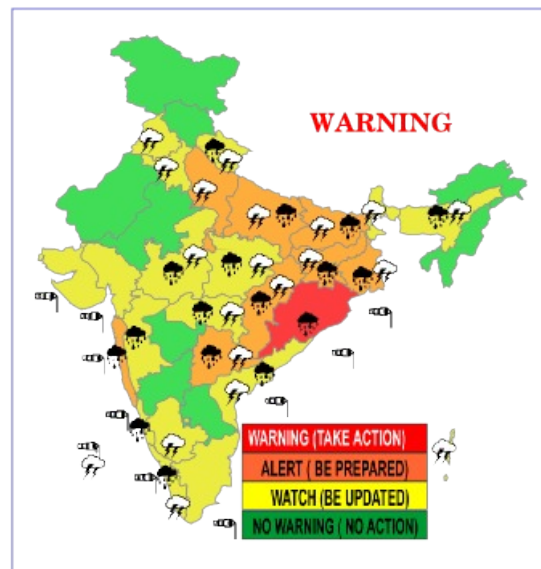
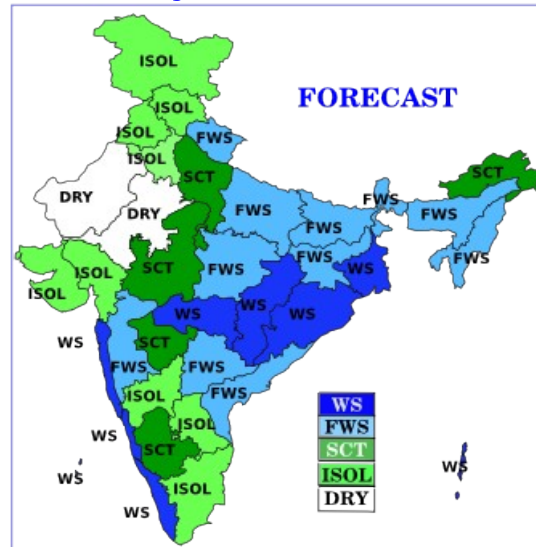
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Friday 11 June 2021



11 June (Day 3): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Uttarakhand and Uttar Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands and Kerala & Mahe and **with lightning** at isolated places over East Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Telangana, South Interior Karnataka and Lakshadweep.

♦ **Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls** at isolated places likely over Odisha and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places very likely over Chhattisgarh; **Heavy to Very Heavy Rainfall** at isolated places over Gangetic West Bengal and Telangana and **Heavy Rainfall** at isolated places over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Assam & Meghalaya, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, Coastal 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 and North Bay of Bengal and along & off Odisha-Andhra Pradesh-West Bengal coasts; **speed reaching 45-55 kmph** over Gulf of Mannar and **speed reaching 40-50 kmph** over North Arabian Sea, Lakshadweep area and along & off Gujarat-Maharashtra-Kerala-Karnataka coasts. Fishermen are advised not to venture into these areas.

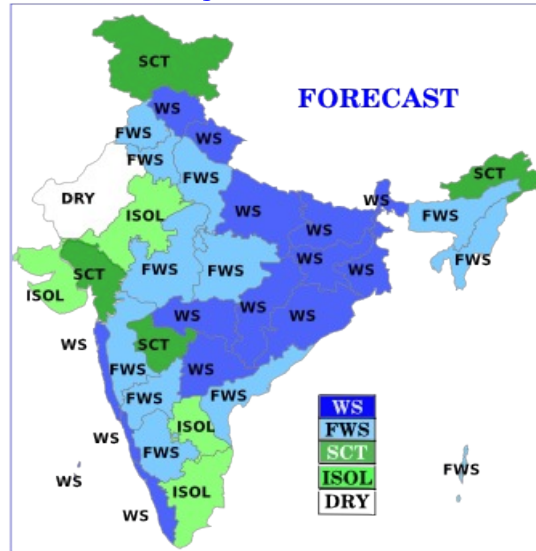
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(Copies to the Media only)

Saturday 12 June 2021



12 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, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Andaman & Nicobar Islands and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Telangana, Interior Karnataka and Lakshadweep.

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

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

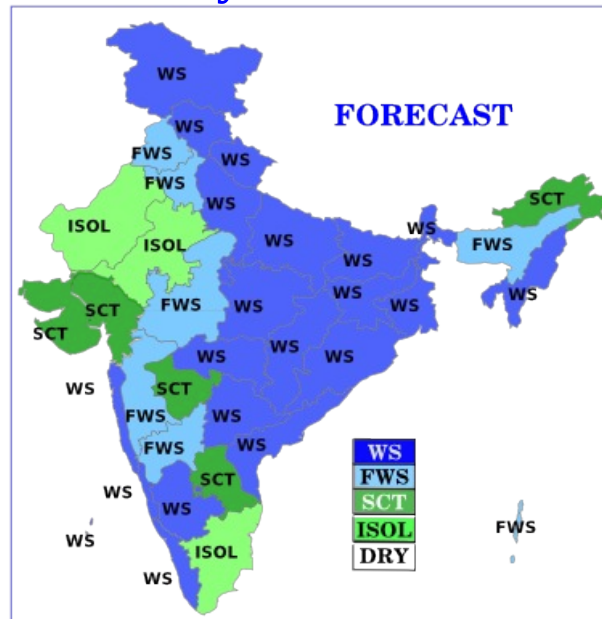
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(Contact the National Helpline 1800)

Sunday 13 June 2021



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

♦ **Thunderstorm/Duststorm** with lightning & 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 Chhattisgarh and Konkan & Goa; **Heavy to Very Heavy Rainfall with Extremely Heavy Falls** at isolated places likely over Vidarbha; **Heavy to Very Heavy Rainfall** at a few places over Telangana and Coastal Karnataka and at isolated places over East Uttar Pradesh, East Madhya Pradesh, Odisha, Madhya Maharashtra (ghat areas), Coastal Andhra Pradesh & Yanam, South 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, West Madhya Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat Region, Marathwada, North Interior Karnataka and Lakshadweep.

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

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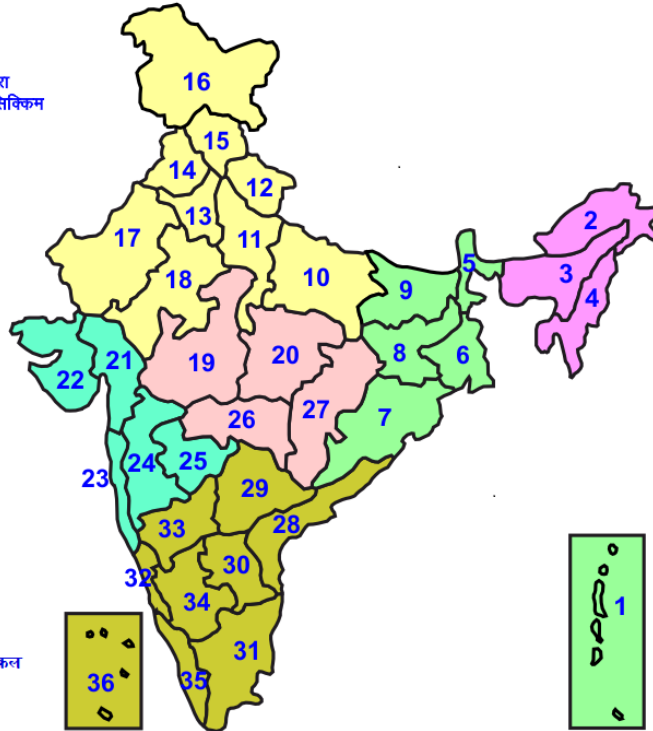
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LEGENDS

- 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 गंगेय 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

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LEGENDS

WARNING

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

Probabilistic Forecast

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



Rain/ Snow *

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



Heat Wave

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

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains 40°C

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

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



Cold Wave

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

(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

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