



Friday 07 October 2022

**MORNING**

Time of Issue: 0815 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

**Withdrawal of Southwest Monsoon:**

⇒ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.

**Weather systems, rainfall/thunderstorm Forecast & Warnings:**

⇒ A cyclonic circulation lies over south Coastal Andhra Pradesh & neighbourhood in lower tropospheric levels.

⇒ A trough runs from the cyclonic circulation over south Coastal Andhra Pradesh & neighbourhood to central parts of north Uttar Pradesh across Telangana, Vidarbha & West Madhya Pradesh in lower tropospheric levels.

⇒ Another cyclonic circulation lies over central parts of south Bay of Bengal in middle tropospheric levels.

⇒ **Under the influence of above systems;**

o Fairly widespread/widespread light/moderate rainfall with **isolated/scattered heavy falls & thunderstorm/lightning** very likely over Uttarakhand and West Uttar Pradesh during 07<sup>th</sup>-11<sup>th</sup>; East Uttar Pradesh on 07<sup>th</sup> & 08<sup>th</sup>; Haryana on 08<sup>th</sup> & 09<sup>th</sup>; East Rajasthan and West Madhya Pradesh during 07<sup>th</sup>-09<sup>th</sup> and over East Madhya Pradesh on 07<sup>th</sup> October, 2022. **Isolated very heavy rainfall very likely over Uttarakhand and West Uttar Pradesh during 07<sup>th</sup>-09<sup>th</sup> October, 2022. Isolated extremely heavy falls also likely over Uttarakhand on 07<sup>th</sup> & 08<sup>th</sup> October, 2022.**

o Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Gujarat Region and Madhya Maharashtra on 08<sup>th</sup> & 09<sup>th</sup>; Marathwada and Telangana on 07<sup>th</sup>; Coastal Andhra Pradesh & Yanam during 07<sup>th</sup>-09<sup>th</sup>; Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal during 07<sup>th</sup>-08<sup>th</sup> October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim on 07<sup>th</sup> & 08<sup>th</sup> and over Odisha on 09<sup>th</sup> October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh and Assam & Meghalaya during 07<sup>th</sup>-11<sup>th</sup> and over Mizoram & Tripura during 09<sup>th</sup>-11<sup>th</sup> October, 2022.

**Main Weather Observations**

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Chhattisgarh, Arunachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka; at many places over East Uttar Pradesh, Vidarbha, Odisha, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka; at a few places over West Uttar Pradesh, Madhya Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Rayalaseema, Lakshadweep and at isolated places over Bihar, Gujarat Region, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall occurred at isolated places over Konkan & Goa and East Uttar Pradesh.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday)(3 cm or more):** Ratnagiri-8; Bahraich-7; Bhubaneswar and Vijayawada-5 each; Bhagalpur, Mahabubnagar-4 each; Raichur, Car Nicobar, Tuni and Pasighat-3 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at many places over Coastal Andhra Pradesh & Yanam and at isolated places over Assam & Meghalaya, Uttarakhand, Uttar Pradesh, Gujarat Region, Madhya Pradesh, West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Telangana.
- ◆ **Minimum Temperature Departures (as on 06-10-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Gujarat Region; at isolated places over Himachal Pradesh, Bihar, East Rajasthan and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi; at a few places over West Rajasthan and Sub-Himalayan West Bengal & Sikkim; at isolated places over Saurashtra & Kutch, Madhya Maharashtra and Vidarbha. They were below normal (-1.6°C to -3.0°C) at isolated places over Gangetic West Bengal and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.5°C was reported at Sikar (East Rajasthan) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 06-10-2022):** Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Assam & Meghalaya; at isolated places over Tamil Nadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over East Uttar Pradesh; at many places over West Uttar Pradesh; at a few places over Telangana, Rayalaseema, North Interior Karnataka; at isolated places over West Madhya Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over Marathwada, Coastal Andhra Pradesh & Yanam, at a few places over Haryana, Chandigarh & Delhi, Arunachal Pradesh, Madhya Maharashtra and Konkan & Goa; at isolated places over East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at most places over Gujarat Region; at many places over East Rajasthan, Chhattisgarh, Gangetic West Bengal, Odisha, Andaman & Nicobar Islands & South Interior Karnataka; at a few places over Saurashtra & Kutch; at isolated places over Vidarbha and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.0°C was reported at Bikaner (West Rajasthan) over the plains of the country.

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### Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of **Southwest Monsoon** continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.
- ◆ The cyclonic circulation over south Coastal Andhra Pradesh & neighbourhood extending upto 3.1 km above mean sea level persists.
- ◆ The trough from the cyclonic circulation over south Coastal Andhra Pradesh & neighbourhood to central parts of north Uttar Pradesh across Telangana, Vidarbha & West Madhya Pradesh extending upto 3.1 km above mean sea level persists.
- ◆ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along 64°E to north of 24°N persists.
- ◆ The cyclonic circulation over central parts of south Bay of Bengal between 4.5 km & 5.8 km above mean sea level persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 12th October, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over the country during next 5 days.

### Weather Outlook for subsequent 2 days During 12th-14th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall likely over Uttar Pradesh, Central, East, Northeast & south peninsular India, Islands and along the West coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except some parts of northwest India where dry weather is likely.

## Weather Warning during next 5 days \*

**07 Oct (Day 1): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places very likely over West Uttar Pradesh and **heavy rainfall** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

**08 Oct (Day 2): ♦ Heavy to very heavy rainfall at a few places with extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places very likely over West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

**09 Oct (Day 3): ♦ Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

**10 Oct (Day 4): ♦ Heavy rainfall** at isolated places likely over Uttarakhand, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

**11 Oct (Day 5): ♦ Heavy rainfall** at isolated places likely over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

**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 (MORNING)**  
**07-October-2022**

Met-Sub-Division	07-Oct Today	08Oct Sat	09Oct Sun	10Oct Mon	11Oct Tue
1. Andaman & Nicobar Islands	WS	WS	FWS	FWS	FWS
2. Arunachal Pradesh	WS	WS	WS	WS	WS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	SCT	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	WS	WS	FWS	WS	WS
6. Gangetic West Bengal	FWS	SCT	SCT	FWS	FWS
7. Odisha	FWS	FWS	FWS	SCT	SCT
8. Jharkhand	SCT	SCT	SCT	SCT	SCT
9. Bihar	SCT	SCT	SCT	SCT	SCT
10. East Uttar Pradesh	WS	WS	FWS	FWS	FWS
11. West Uttar Pradesh	WS	WS	WS	WS	WS
12. Uttarakhand	WS	WS	WS	FWS	FWS
13. Haryana, Chd & Delhi	SCT	SCT	FWS	SCT	SCT
14. Punjab	ISOL	ISOL	ISOL	SCT	SCT
15. Himachal Pradesh	ISOL	ISOL	ISOL	SCT	SCT
16. J & K and Ladakh	DRY	DRY	DRY	ISOL	ISOL
17. West Rajsthan	ISOL	ISOL	SCT	SCT	ISOL
18. East Rajasthan	FWS	FWS	FWS	SCT	SCT
19. West Madhya Pradesh	WS	FWS	FWS	FWS	FWS
20. East Madhya Pradesh	FWS	SCT	SCT	FWS	FWS
21. Gujarat Region	SCT	SCT	SCT	SCT	SCT
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	SCT	SCT
23. Konkan & Goa	SCT	SCT	FWS	FWS	FWS
24. Madhya Maharashtra	SCT	SCT	FWS	FWS	FWS
25. Marathawada	FWS	FWS	SCT	SCT	SCT
26. Vidharbha	SCT	SCT	SCT	SCT	SCT
27. Chhattisgarh	SCT	SCT	SCT	FWS	FWS
28. Coastal A. P. & Yanam	FWS	FWS	FWS	SCT	SCT
29. Telangana	FWS	FWS	SCT	SCT	SCT
30. Rayalaseema	FWS	WS	FWS	SCT	SCT
31. T.N.,Puducherry & Karaikal	SCT	SCT	SCT	SCT	SCT
32. Coastal Karnataka	FWS	SCT	SCT	FWS	FWS
33. North Interior Karnataka	SCT	SCT	FWS	FWS	FWS
34. South Interior Karnataka	SCT	SCT	FWS	FWS	FWS
35. Kerala & Mahe	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	SCT	SCT	SCT	SCT	SCT

**% 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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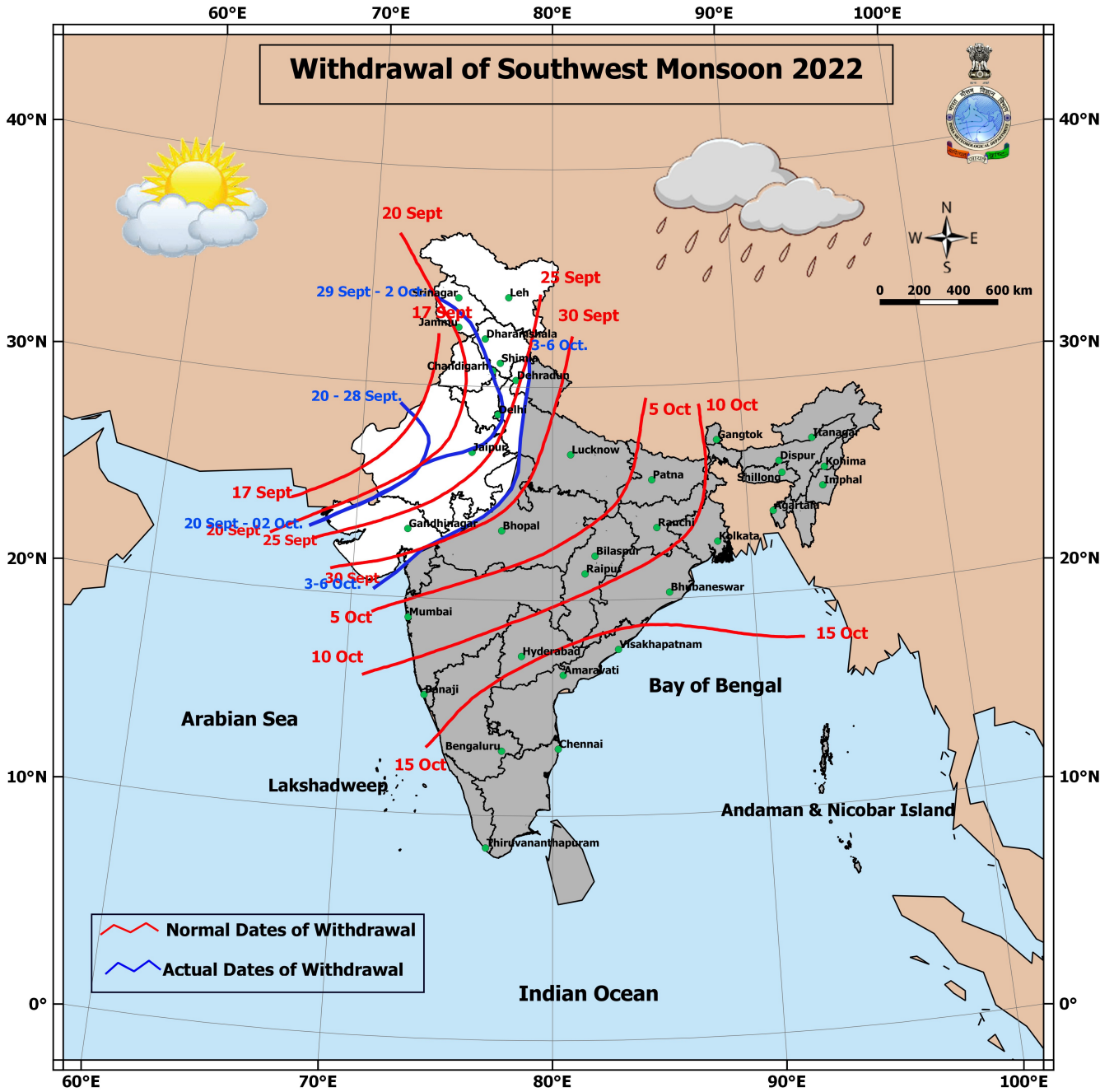
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Fig.1 Withdrawal of Southwest Monsoon 2022



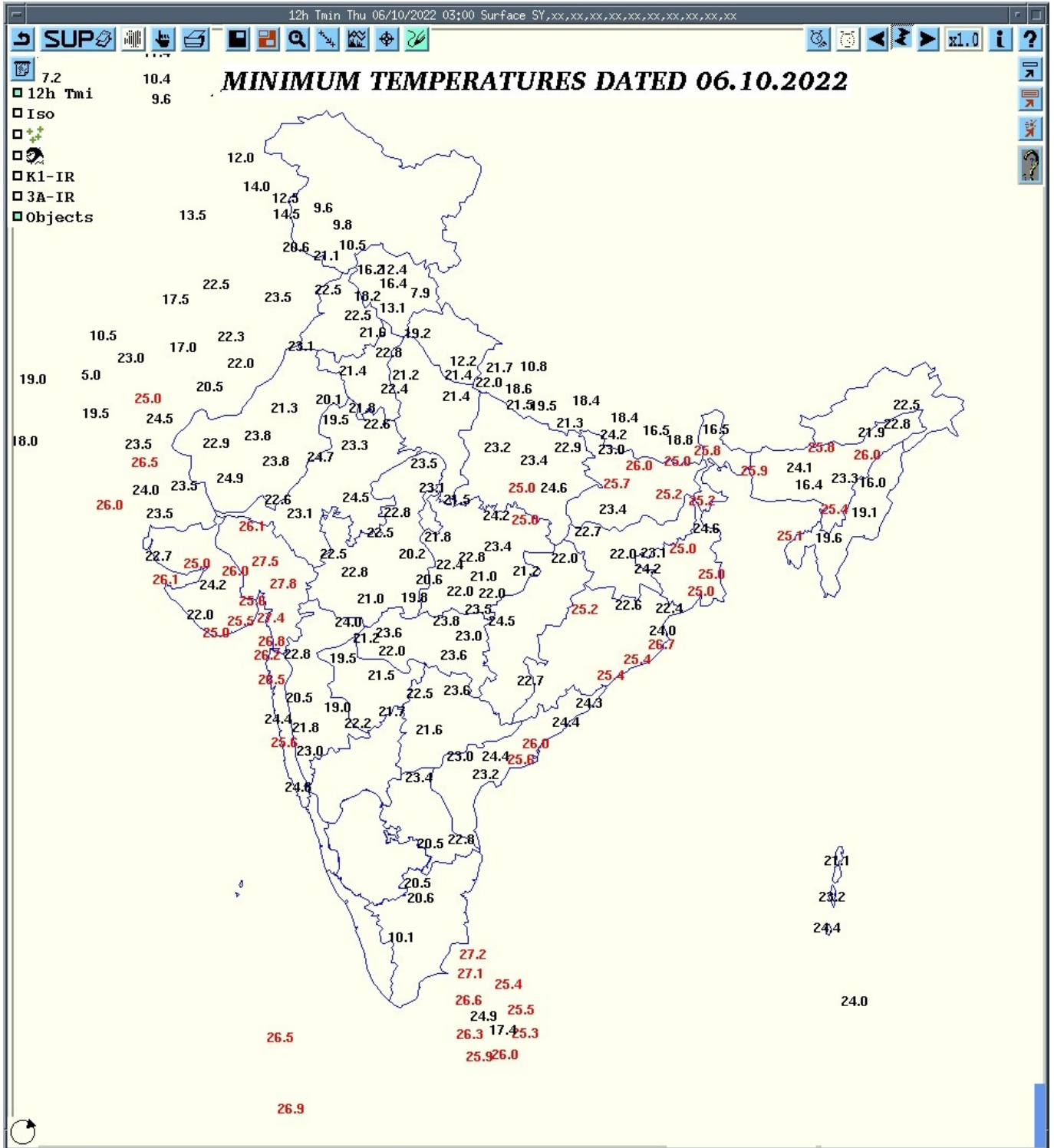
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Fig. 4: Minimum Temperature during past 24 hours



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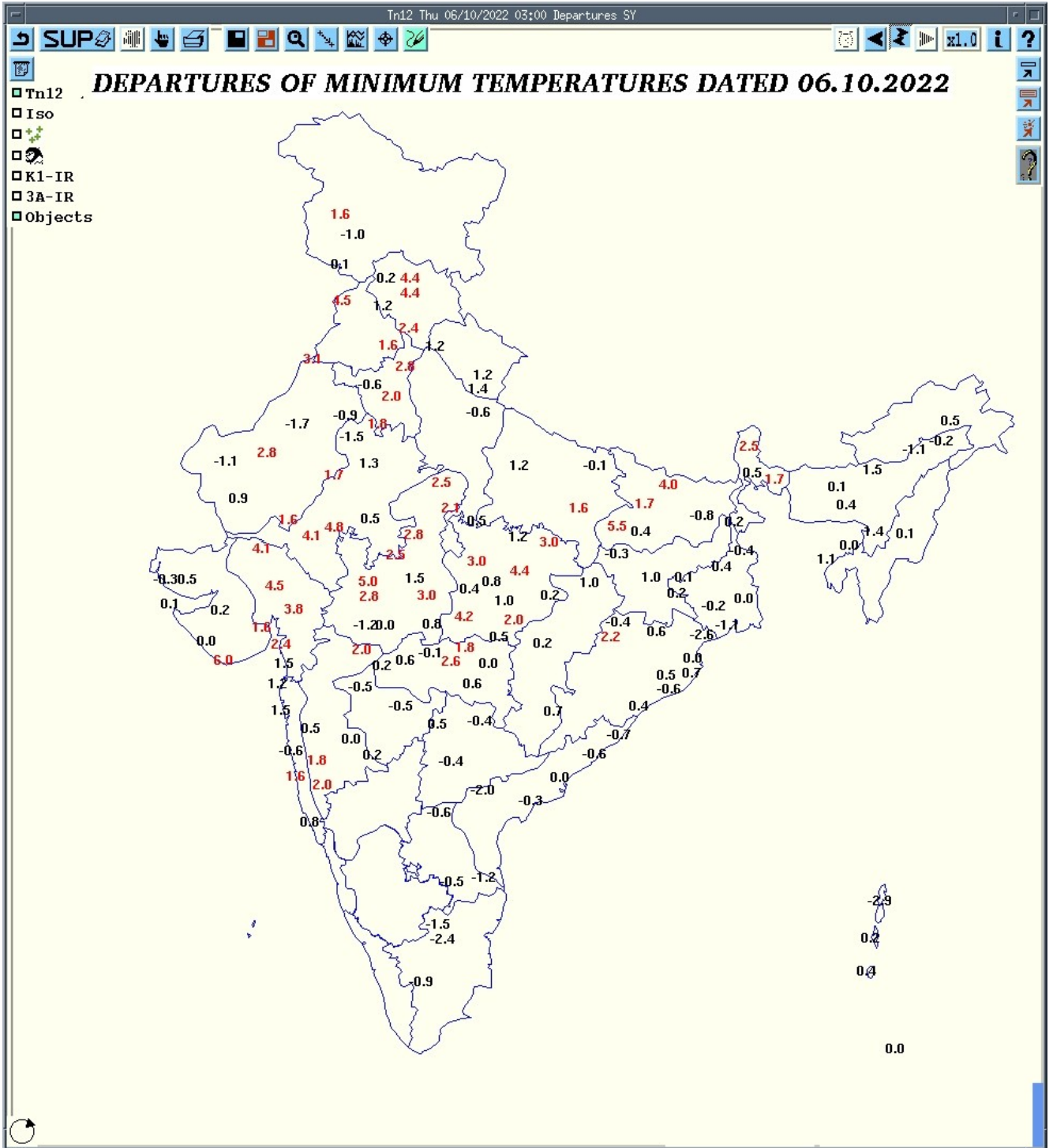
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(Created by the MetInfo team 10/2022)



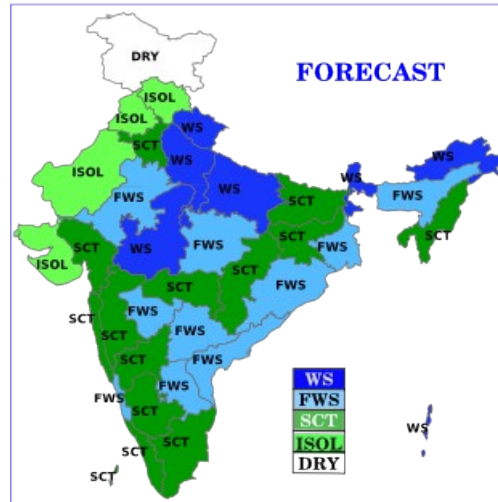


Fig. 6 : Departure from Normal of Minimum Temperatures



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## Friday 07 October 2022



**07 Oct (Day 1):** ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places very likely over West Uttar Pradesh and **heavy rainfall** at isolated places over East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

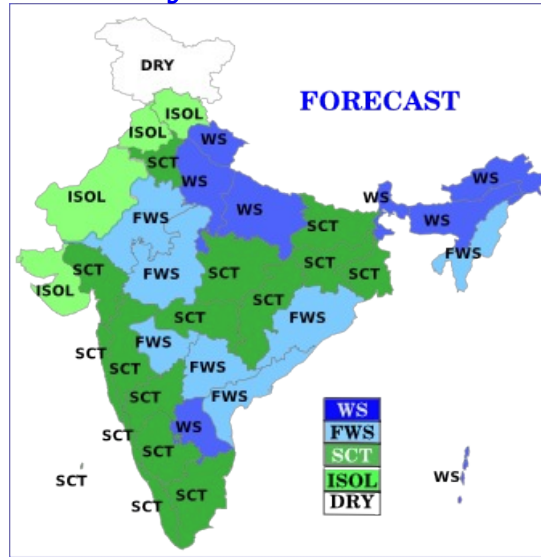
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## Saturday 08 October 2022



**08 Oct (Day 2):** ♦ **Heavy to very heavy rainfall at a few places with extremely heavy falls** at isolated places likely over Uttarakhand; **Heavy to very heavy rainfall** at isolated places very likely over West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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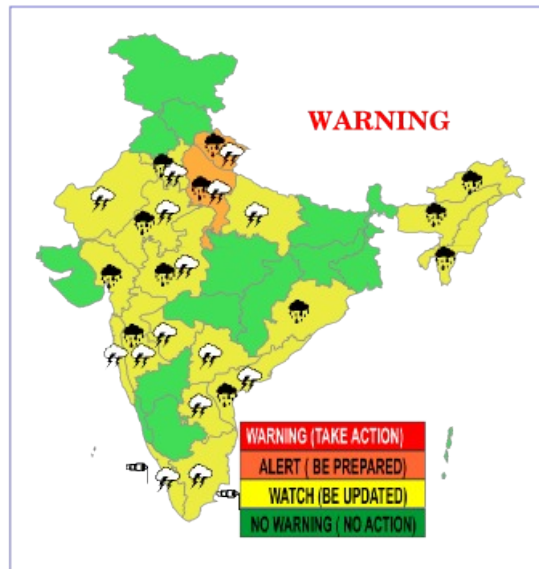
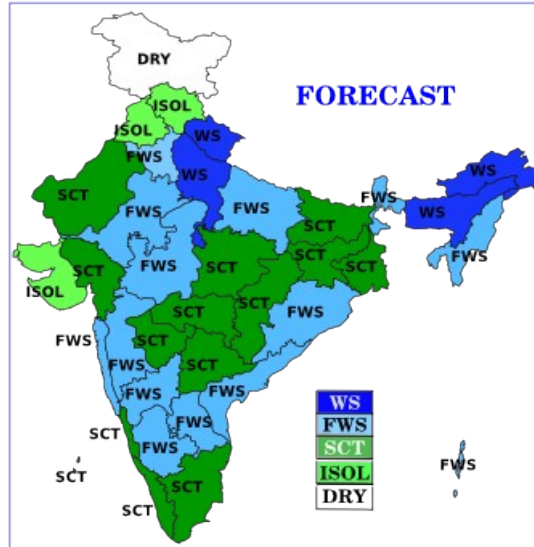
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## Sunday 09 October 2022



**09 Oct (Day 3): ♦ Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand and West Uttar Pradesh and **heavy rainfall** at isolated places over Haryana, Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

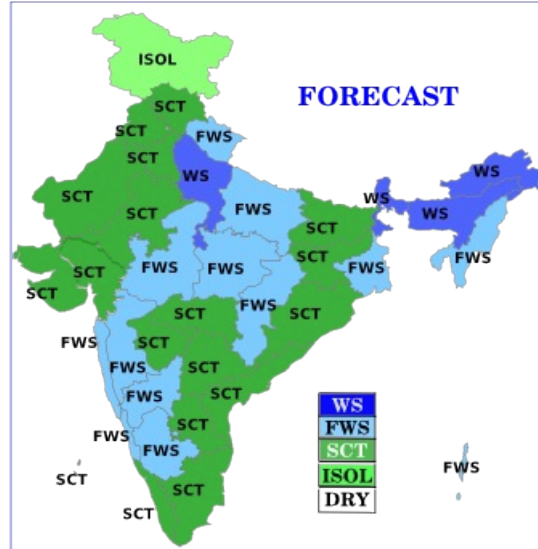
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## Monday 10 October 2022



**10 Oct (Day 4): ♦Heavy rainfall** at isolated places likely over Uttarakhand, West Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦**Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦**Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

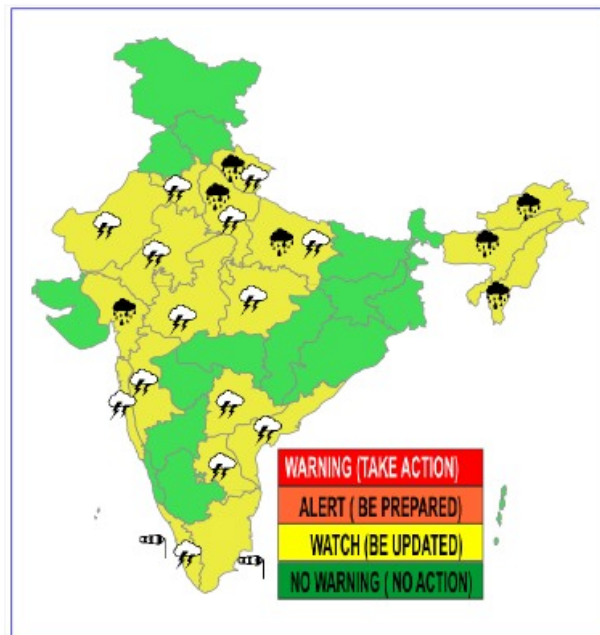
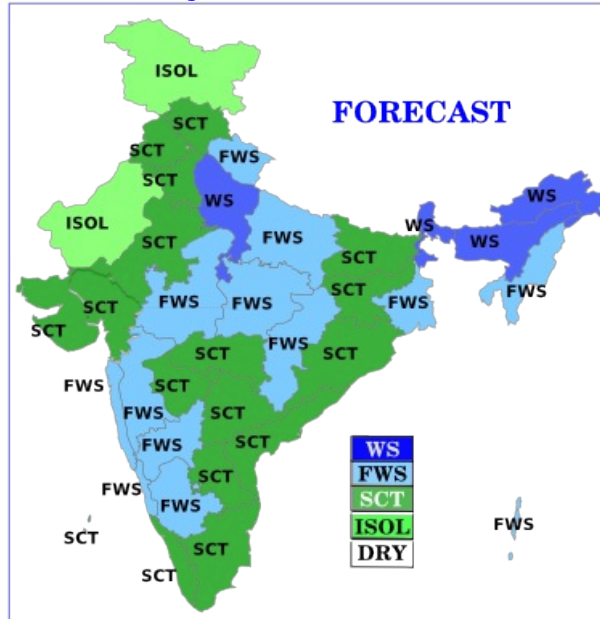
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## Tuesday 11 October 2022



**11 Oct (Day 5): ♦Heavy rainfall** at isolated places likely over Uttarakhand, Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Gujarat Region.

♦**Thunderstorm accompanied with lightning** at isolated places very over Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe.

♦ **Squally winds** (wind speed 45-55 kmph gusting to 65 kmph) is likely over Southwest Bay of Bengal and along & off south Sri Lanka coast, Gulf of Mannar and Comorin area. Fishermen are advised not to venture into these seas.

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(Circle as the Nation since 1975)

## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



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

## SPATIAL DISTRIBUTION (% of Stations reporting)

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

## WARNING

<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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(Copies to the Media upto 1070)

## 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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