



Monday 03 October 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

Ø The withdrawal line of Southwest Monsoon continues to pass through Jammu, Una, Chandigarh, Karnal, Baghpat, Delhi, Alwar, Jodhpur and Nalia.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

Ø The **cyclonic circulation** lies over Westcentral and adjoining Northwest Bay of Bengal and extends upto middle tropospheric levels.

Ø A trough runs from above cyclonic circulation Westcentral and adjoining Northwest Bay of Bengal to Bangladesh and extends upto middle tropospheric levels.

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

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Odisha during 03rd-06th; Gangetic West Bengal & Jharkhand on 03rd & 04th; Bihar on 04th & 05th; northeast Madhya Pradesh on 05th & 06th; northwest Madhya Pradesh on 06th and Chhattisgarh on 04th & 05th October, 2022. **Isolated very heavy rainfall also very likely over Odisha on 04th October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Himachal Pradesh, Uttarakhand and West Uttar Pradesh on 06th & 07th and East Uttar Pradesh from 05th to 07th October, 2022. **Isolated very heavy rainfall also very likely over Uttarakhand on 06th & 07th October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam on 04th & 05th and Telangana on 05th & 06th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 03rd & 04th October, 2022.

Main Weather Observations

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(Circle as the Station code 4877)



◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Gangetic West Bengal; at a few places over Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Lakshadweep and at isolated places over Uttarakhand, East Uttar Pradesh, Vidarbha, Saurashtra & Kutch, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

◆ **Heavy rainfall recorded(from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall observed at isolated places over Kerala.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more):** Plakkad-9; Balasore and Hirakud-3 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttarakhand, East Uttar Pradesh, Odisha, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam and Karnataka.

◆ **Minimum Temperature Departures (as on 02-10-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Punjab; at a few places over East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Rajasthan, Bihar, Odisha, Arunachal Pradesh, Madhya Pradesh, Gujarat State and Lakshadweep. They were below normal (-1.6°C to -3.0°C) at many places over Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam and South Interior Karnataka; at isolated places over Gangetic West Bengal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.5°C was reported at Malanjkhanda (East Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 02-10-2022):** Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Arunachal Pradesh and Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya and at a few places over Arunachal Pradesh; above normal (1.6°C to 3.0°C) at many places over Bihar and Sub-Himalayan West Bengal & Sikkim; at a few places over Vidarbha, Madhya Maharashtra, Telangana and Tamil Nadu, Puducherry & Karaikal.. They were below normal (-1.6°C to -3.0°C) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, South Interior Karnataka; at a few places over West Rajasthan, Gangetic West Bengal, Saurashtra & Kutch, Rayalaseema, North Interior Karnataka; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. yesterday, the highest maximum temperature of 38.7°C was reported at Ganganagar (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 Jammu, Una, Chandigarh, Karnal, Baghpat, Delhi, Alwar, Jodhpur and Nalia.
- ◆ The **cyclonic circulation** over Westcentral Bay of Bengal off Andhra Pradesh coast now lies over Westcentral and adjoining Northwest Bay of Bengal and extends upto 5.8 km above mean sea level tilting southwestward with height.
- ◆ A trough run from the above cyclonic circulation over Westcentral and adjoining Northwest Bay of Bengal to Bangladesh and extends upto 5.8 km above mean sea level.
- ◆ The **cyclonic circulation** over Northeast Bay of Bengal & neighbourhood and extends upto 5.8 km above mean sea level has merge with above system.
- ◆ The feeble **Western Disturbance** as a trough now runs roughly along 74°E to north of 30°N with its axis at 3.1 km above mean sea level.

Weather Forecast for next 5 days * upto 0830 hours IST of 08th 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 08th-10th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall with isolated heavy to very falls likely over Himachal Pradesh, Uttarakhand and Uttar Pradesh on 07th October, 2022.
- ◆ Scattered to fairly widespread light/moderate rainfall likely over Central, East & Northeast India, Islands and along the west coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except remaining parts of northwest India and Gujarat state where dry weather is likely.

Weather Warning during next 5 days *

03 Oct (Day 1): ♦ Heavy rainfall at isolated places very likely over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, west-central and adjoining east-central and north-east Bay of Bengal, Comorin area, southwest, and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Southwest Bay of Bengal and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

04 Oct (Day 2): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest Bay of Bengal, adjoining west-central and adjoining east-central Bay of Bengal, Comorin area, southwest, and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

05 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Comorin area, southwest, and adjoining southeast Bay of Bengal, west-central Bay of Bengal and off Andhra Pradesh Coast. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

06 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, north Madhya Pradesh, Odisha and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

07 Oct (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, north Madhya Pradesh, Odisha and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. 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)
03-October-2022

Met-Sub-Division	03-Oct Today	04Oct Tue	05Oct Wed	06Oct Thu	07Oct Fri
1. Andaman & Nicobar Islands	FWS	WS	WS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	FWS	FWS	FWS
3. Assam & Meghalaya	FWS	SCT	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	SCT	SCT	SCT
5. S.H. West Bengal & Sikkim	FWS	WS	FWS	SCT	SCT
6. Gangetic West Bengal	WS	WS	FWS	FWS	FWS
7. Odisha	WS	WS	FWS	FWS	FWS
8. Jharkhand	WS	WS	WS	FWS	FWS
9. Bihar	SCT	FWS	FWS	FWS	FWS
10. East Uttar Pradesh	ISOL	FWS	FWS	FWS	FWS
11. West Uttar Pradesh	DRY	ISOL	SCT	FWS	FWS
12. Uttarakhand	ISOL	ISOL	SCT	WS	WS
13. Haryana, Chd & Delhi	DRY	DRY	ISOL	SCT	SCT
14. Punjab	DRY	DRY	DRY	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	SCT	FWS	FWS
16. J & K and Ladakh	DRY	DRY	DRY	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	ISOL	SCT	SCT
19. West Madhya Pradesh	ISOL	ISOL	SCT	FWS	FWS
20. East Madhya Pradesh	ISOL	SCT	FWS	FWS	FWS
21. Gujarat Region	ISOL	ISOL	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	SCT	SCT	SCT	SCT	SCT
24. Madhya Maharashtra	SCT	SCT	SCT	SCT	SCT
25. Marathawada	ISOL	ISOL	SCT	SCT	SCT
26. Vidharbha	ISOL	SCT	FWS	SCT	SCT
27. Chhattisgarh	SCT	FWS	WS	FWS	FWS
28. Coastal A. P. & Yanam	SCT	FWS	FWS	SCT	SCT
29. Telangana	ISOL	SCT	FWS	FWS	FWS
30. Rayalaseema	SCT	ISOL	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	FWS	FWS	FWS
33. North Interior Karnataka	SCT	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	SCT	ISOL	ISOL	ISOL
35. Kerala & Mahe	SCT	SCT	SCT	SCT	SCT
36. Lakshadweep	FWS	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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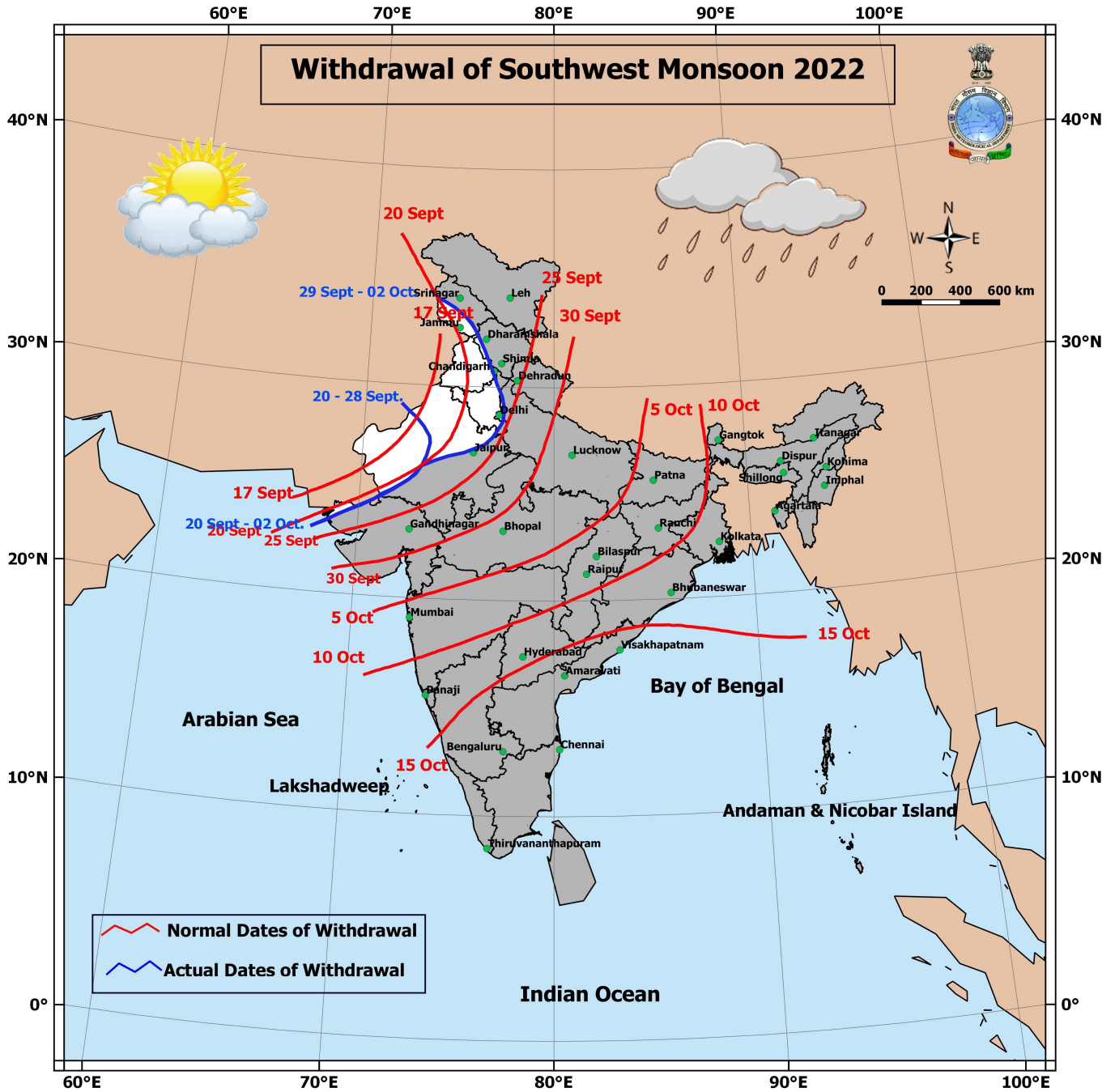
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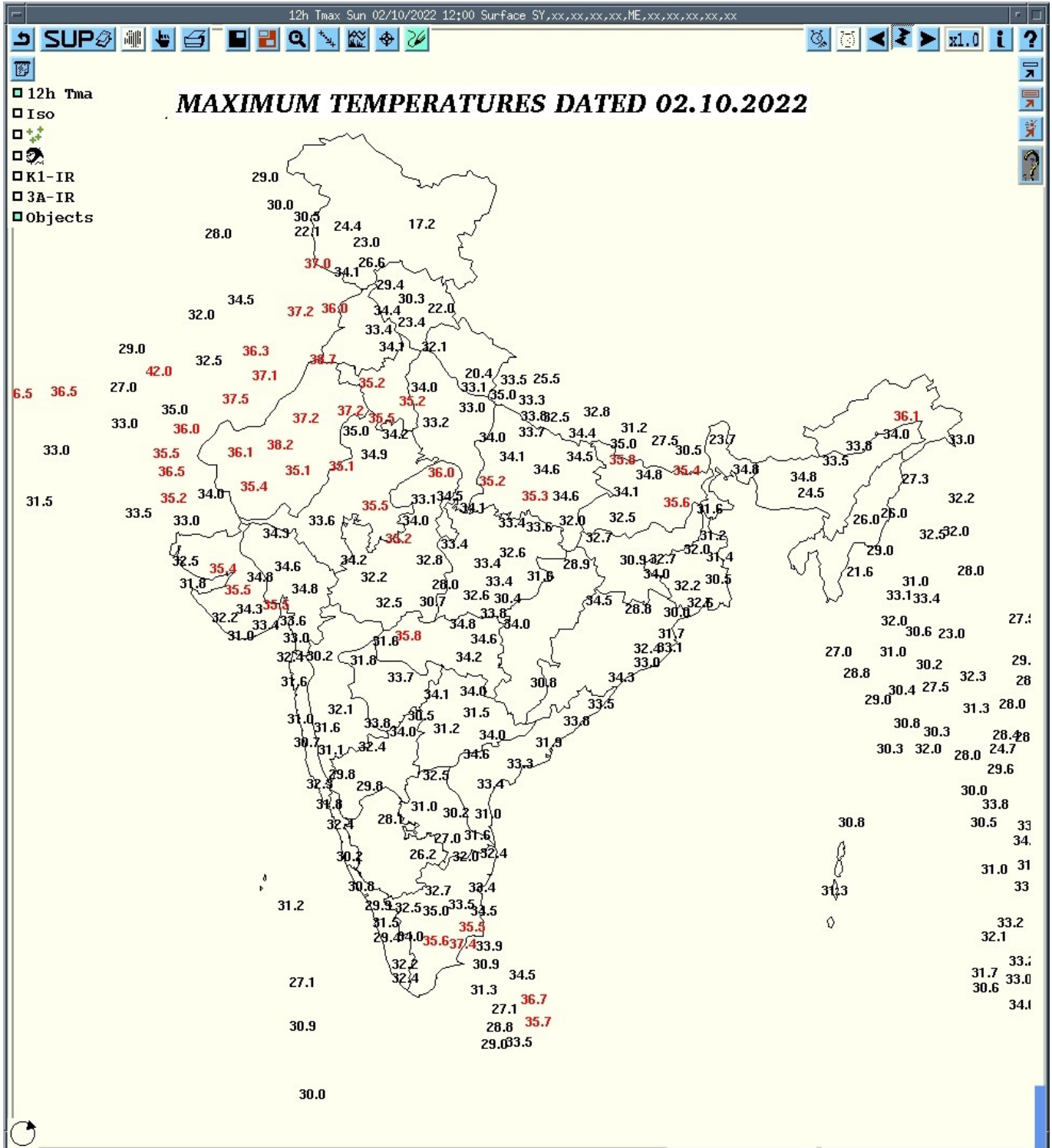
Fig.1 Withdrawal of Southwest Monsoon 2022



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Fig. 3: Maximum Temperature during past 24 hours



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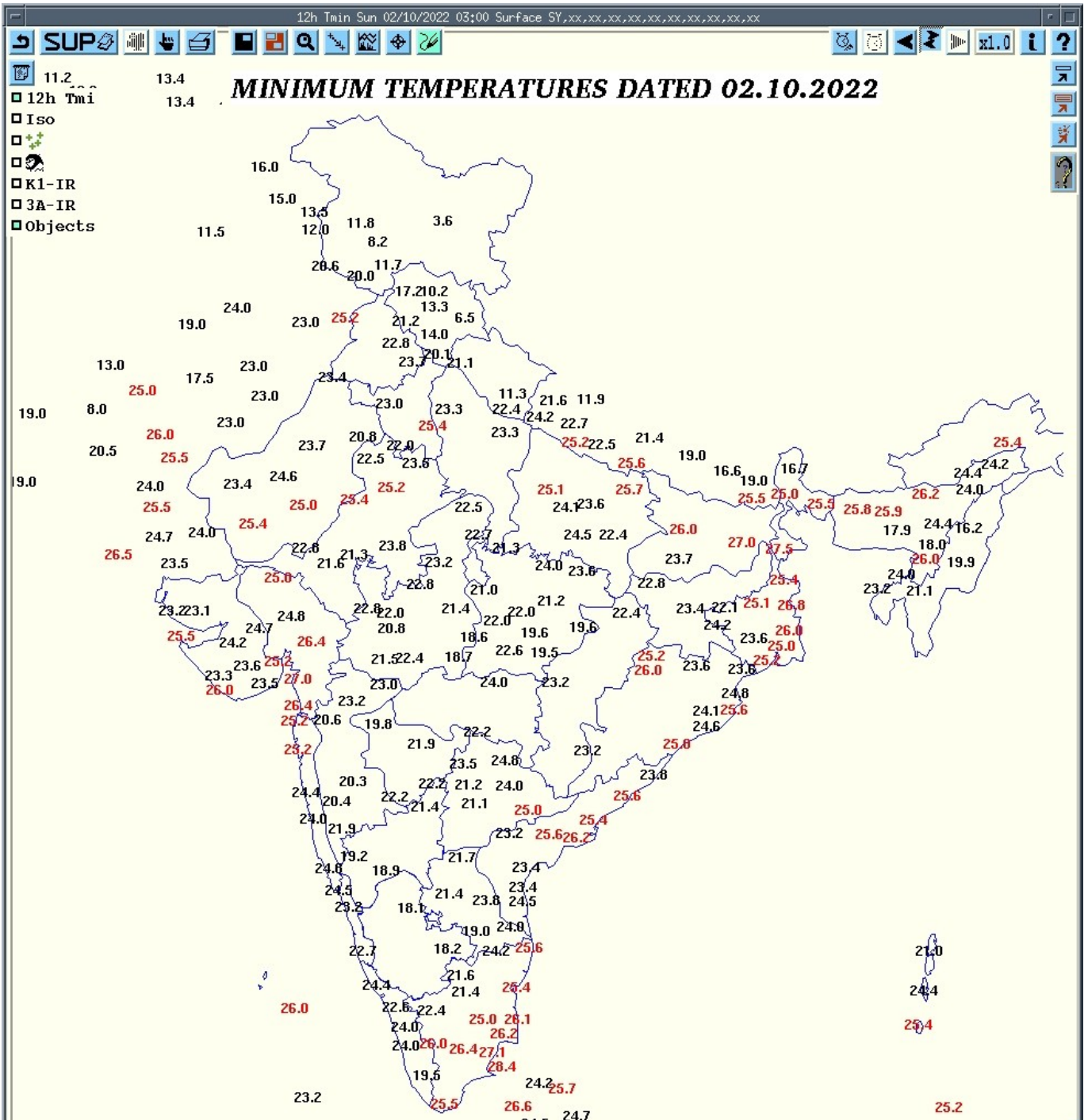
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Fig. 4: Minimum Temperature during past 24 hours



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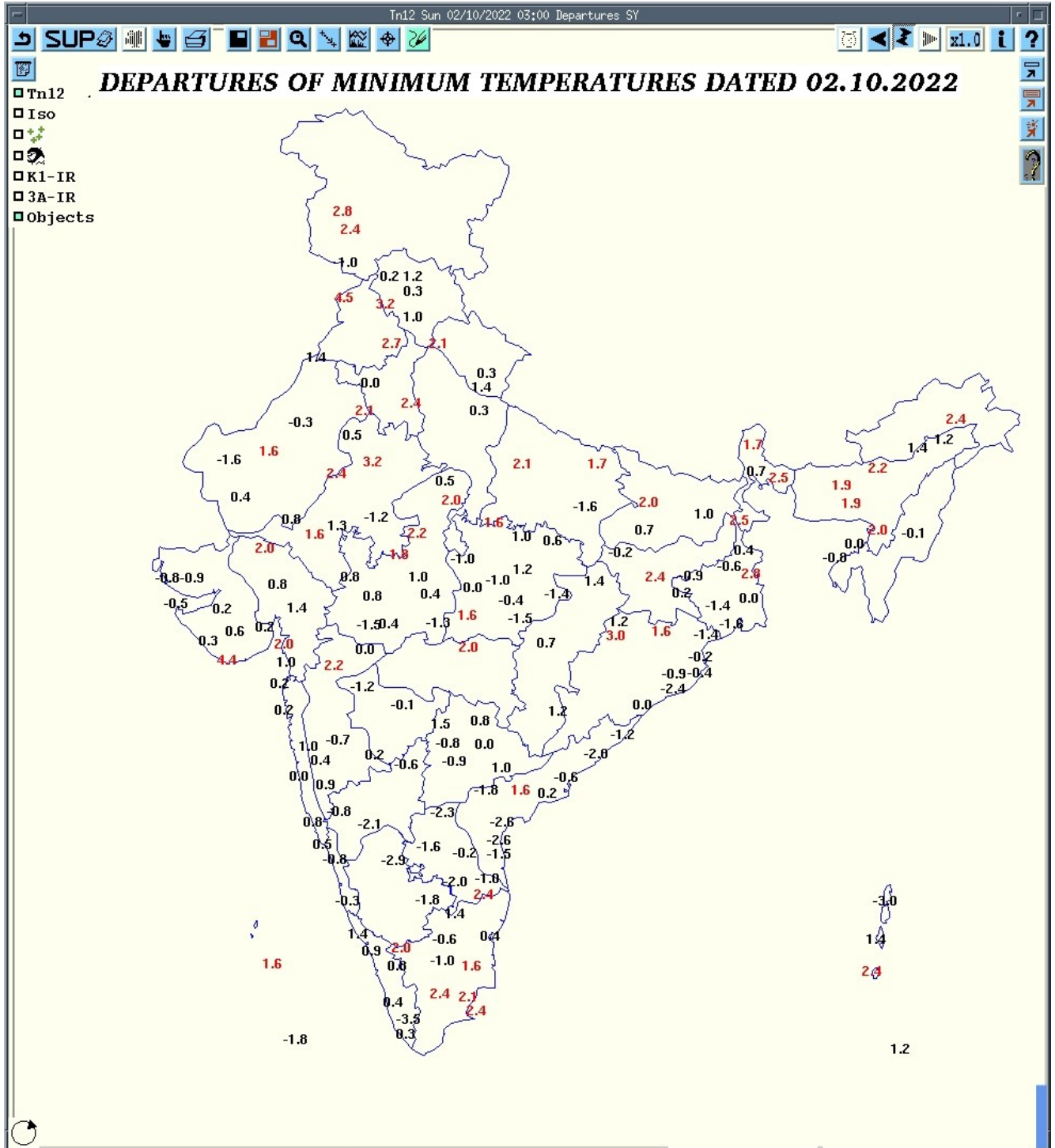
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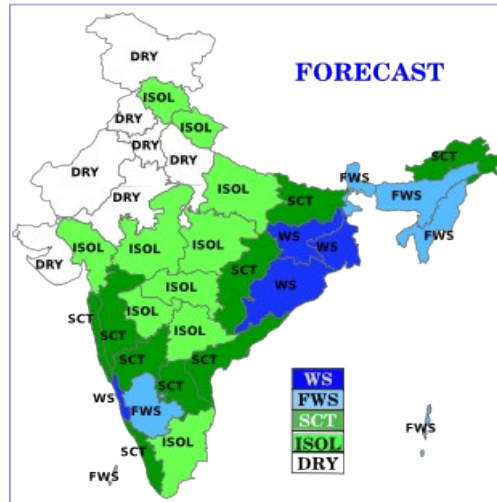


Fig. 6 : Departure from Normal of Minimum Temperatures



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Monday 03 October 2022



03 Oct (Day 1): ♦ Heavy rainfall at isolated places very likely over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, west-central and adjoining east-central and north-east Bay of Bengal, Comorin area, southwest, and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Southwest Bay of Bengal and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

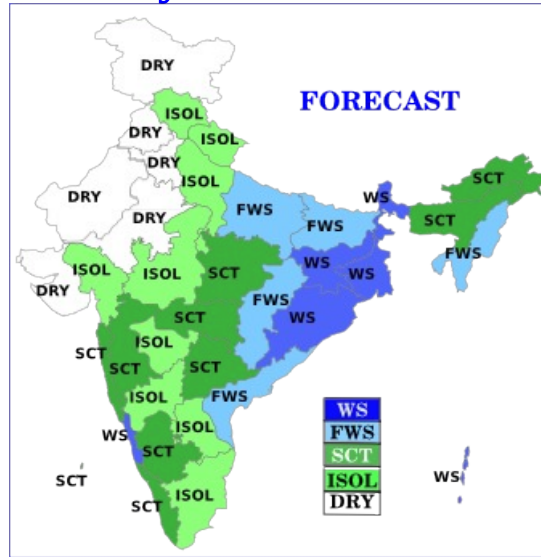
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Tuesday 04 October 2022



04 Oct (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over northwest Bay of Bengal, adjoining west-central and adjoining east-central Bay of Bengal, Comorin area, southwest, and adjoining southeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

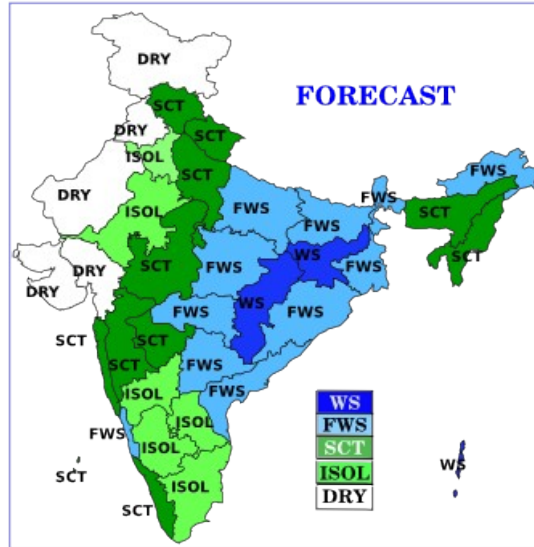
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Wednesday 05 October 2022



05 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Odisha, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Comorin area, southwest, and adjoining southeast Bay of Bengal, west-central Bay of Bengal and off Andhra Pradesh Coast. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

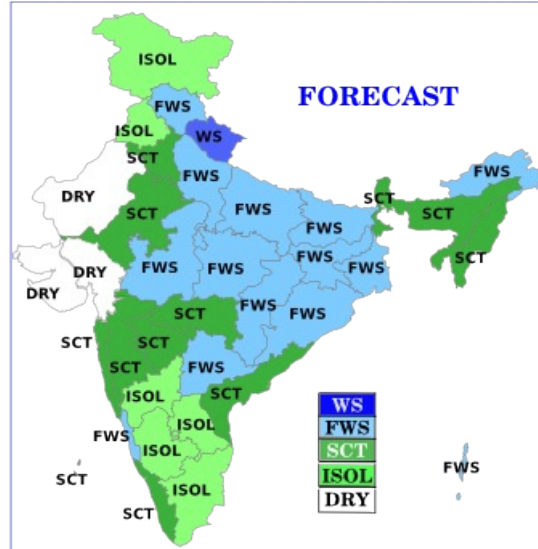
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Thursday 06 October 2022



06 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Uttarakhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, north Madhya Pradesh, Odisha and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

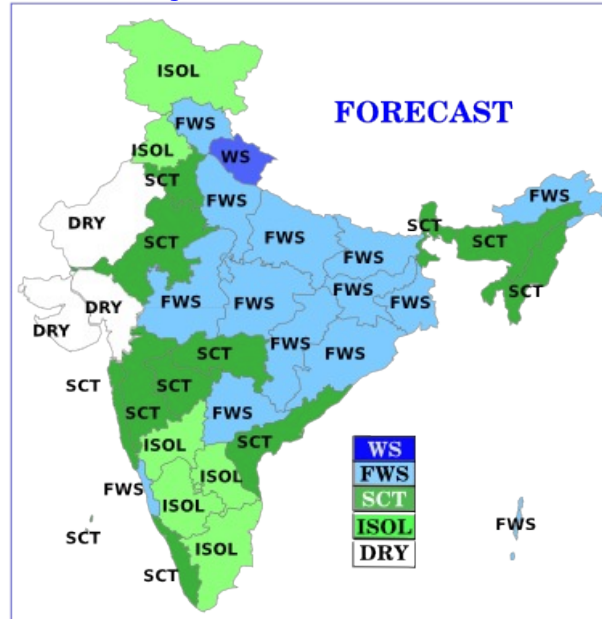
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Friday 07 October 2022



07 Oct (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Uttarakhand and **heavy rainfall** at isolated places over Himachal Pradesh, Uttar Pradesh, north Madhya Pradesh, Odisha and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Chhattisgarh, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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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

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

Probabilistic Forecast

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



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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

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

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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°C to 6.4°C .

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

(b). Based on Actual maximum temperature

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

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

(c) Criteria for heat wave for coastal stations

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



Warm Night

When maximum temperature remains 40°C

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

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



Cold Wave

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

(a). Based on departure

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

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

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

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

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

(c) For Coastal Stations

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



Cold Day

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

Based on departure

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

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



Fog

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

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

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



Dust/Sand Storm

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



Frost

Ice deposits on ground

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



Squall

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

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

Effect of various waves in the sea over specific area

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

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

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



Cyclone

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

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

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

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

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

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