



Friday 21 October 2022

MORNING

Time of Issue: 0800 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 20.0°N, 93.0°E, Puri, Kanker, Buldana, Dahanu, Long. 71.0° E/Lat. 19.5° N.

□ Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of Maharashtra; remaining parts of Chhattisgarh, Odisha and North Bay of Bengal; some parts of Telangana, Andhra Pradesh & Yanam and Central Bay of Bengal during next 24 hours.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

□ The Low Pressure Area over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal with the associated cyclonic circulation extending upto 7.6 Km above mean sea level persists. It is very likely to move west-northwestwards and concentrate into a **Depression** over eastcentral & adjoining southeast Bay of Bengal around 22nd October and into a **Deep Depression** on 23rd October. Subsequently, it is very likely to recurve northwards and intensify into a **Cyclonic Storm** over westcentral & adjoining eastcentral Bay of Bengal by 24th October. Thereafter, it is likely to move gradually north-northeastwards and reach near West Bengal - Bangladesh coasts on 25th October, skirting Odisha coast.

□ A trough runs from the cyclonic circulation associated with Low Pressure Area over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal to Tamil Nadu coast across South Bay of Bengal in lower tropospheric levels.

□ A cyclonic circulation lies over southeast Arabian Sea & adjoining Kerala coast and extends upto mid tropospheric levels.

□ A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long 74°E to the north of Lat 32°N.

□ Under the influence of above systems;

o Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls** & thunderstorm/lightning very likely over Tamil Nadu, Puducherry & Karaikal during 21st -22nd; over Kerala & Mahe during 21st-23rd and South Interior Karnataka October, 2022.

o Scattered to fairly/widespread rainfall with isolated **heavy to very heavy falls** & thunderstorm/lightning very likely over Odisha and Gangetic West Bengal on 24th & 25th October, 2022.

o Widespread light/moderate rainfall with isolated **heavy falls** very likely over Andaman & Nicobar Islands during 21st-23rd October, 2022.

o Isolated light rainfall/snowfall over Western Himalayan Region on 21st October, 2022.

o Dry weather very likely to prevail over most parts of Northwest & central India.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST yesterday):** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at many places over North Interior Karnataka and Lakshadweep; at a few places over Himachal Pradesh, Madhya Maharashtra, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and at isolated places over Konkan & Goa, Coastal & South Interior Karnataka, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST yesterday):** Nil.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST yesterday): (1 cm or more):** Banihal, Qazi Gund and Valprai-3 each; Kokarnag, Baderwah, Batote and Bagalkote-2 each; Pahalgaoon, Srinagar, Pune, Mahabaleshwar, Kochin, Tiruppattur, Madurai and Kodaikanal-1 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Uttarakhand, Konkan & Goa, Madhya Maharashtra, Rayalaseema, Kerala, Tamilnadu and Coastal & South Interior Karnataka.

◆ **Minimum Temperature Departures (as on 20-10-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Marathawada; at isolated places over West Rajasthan, Madhya Maharashtra and Telangana; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Vidarbha and Rayalaseema; at a few places over Haryana, Chandigarh & Delhi, Bihar, Konkan & Goa, and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, Odisha, Coastal Andhra Pradesh & Yanam, Gujarat State and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and at isolated places over East Uttar Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 13.0°C was reported at Mandla (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 20-10-2022):** Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim and West Rajasthan; at isolated places over Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Telangana. They were markedly below normal (-5.1°C or less) at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; below normal (-1.6°C to -3.0°C) at many places over Marathawada, Lakshadweep and Andaman & Nicobar Islands; at a few places over East Uttar Pradesh, East Madhya Pradesh, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal; at isolated places over Odisha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.6°C was reported at Phalodi (West Rajasthan) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ Southwest Monsoon has further withdrawn from some more parts of Vidarbha, Chhattisgarh; many parts of Odisha; remaining parts of Jharkhand, West Bengal, Assam, Tripura; entire Mizoram, Manipur, Nagaland, Arunachal Pradesh and many parts of North Bay of Bengal today, the 20th October, 2022. The withdrawal line of Southwest Monsoon continues to pass through 20.0°N, 93.0°E, Puri, Kanker, Buldana, Dahanu, Long. 71.0° E/Lat. 19.5° N.
- ◆ Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of Maharashtra; remaining parts of Chhattisgarh, Odisha and North Bay of Bengal; some parts of Telangana, Andhra Pradesh & Yanam and Central Bay of Bengal during next 24 hours.
- ◆ The **Low Pressure Area** over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal with the associated cyclonic circulation extending upto 7.6 Km above mean sea level persists. It is very likely to move west-northwestwards and concentrate into a **Depression** over eastcentral & adjoining southeast Bay of Bengal around 22nd October and into a **Deep Depression** on 23rd October. Subsequently, it is very likely to recurve northwards and intensify into a **Cyclonic Storm** over westcentral & adjoining eastcentral Bay of Bengal by 24th October. Thereafter, it is likely to move gradually north- northeastwards and reach near West Bengal - Bangladesh coasts on 25th October, skirting Odisha coast.
- ◆ The trough from cyclonic circulation associated with the low pressure area over north Andaman Sea and adjoining areas of south Andaman Sea & Southeast Bay of Bengal to Tamilnadu coast across South Bay of Bengal extending upto 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over Southeast Arabian Sea and adjoining Kerala coast between 1.5 km & 5.8 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long 74°E to the north of Lat 32°N.
- ◆ The cyclonic circulation over Punjab & neighbourhood extending upto 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 26th 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 26th-28th October, 2022

- ◆ Fairly widespread light/moderate rainfall with isolated heavy falls very likely over parts of West Bengal & Sikkim and northeast India. Isolated to scattered light rainfall very likely over parts of extreme south peninsular India and Islands.
- ◆ Dry weather is likely over rest parts of the country.

Weather Warning during next 5 days *

21 Oct (Day 1): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Southeast Arabian sea and along & off Kerala coast, Lakshadweep, Maldives, Comorin area, Gulf of Mannar; **wind speed reaching 40-50 kmph gusting to 60 kmph** over Andaman Sea and adjoining South Bay of Bengal. Fishermen are advised not to venture into these seas.

22 Oct (Day 2): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along & off Lakshadweep, Maldives, Comorin area, Gulf of Mannar and adjoining Southeast Arabian sea; **wind speed reaching 45-50 kmph gusting to 60 kmph** over Andaman sea and adjoining North, Eastcentral, Westcentral & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

23 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha, Andaman & Nicobar Islands and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along & off Lakshadweep, Maldives, Comorin area, Gulf of Mannar and adjoining Southeast Arabian sea; **wind speed reaching 50-60 kmph gusting to 70 kmph** over Andaman sea, Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

24 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal and Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Kerala & Mahe.

♦ **Squally weather** (wind speed 60-70 kmph gusting to 80 kmph) very likely over Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

25 Oct (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal and Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Kerala & Mahe.

♦ **Squally weather** (wind speed 60-70 kmph gusting to 80 kmph) very likely over Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. 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)
21-October-2022

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

% Station Reporting Rainfall

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

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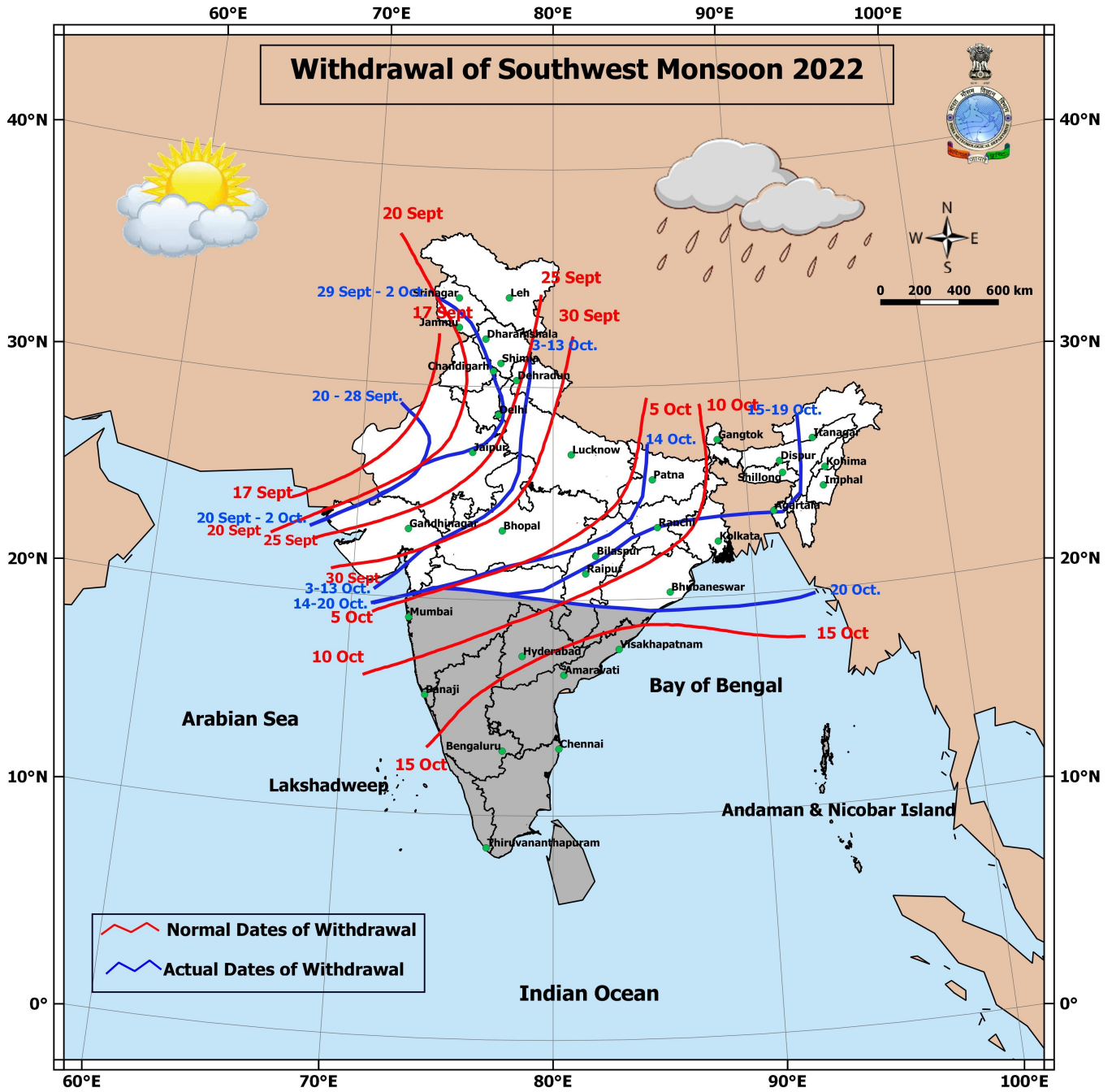
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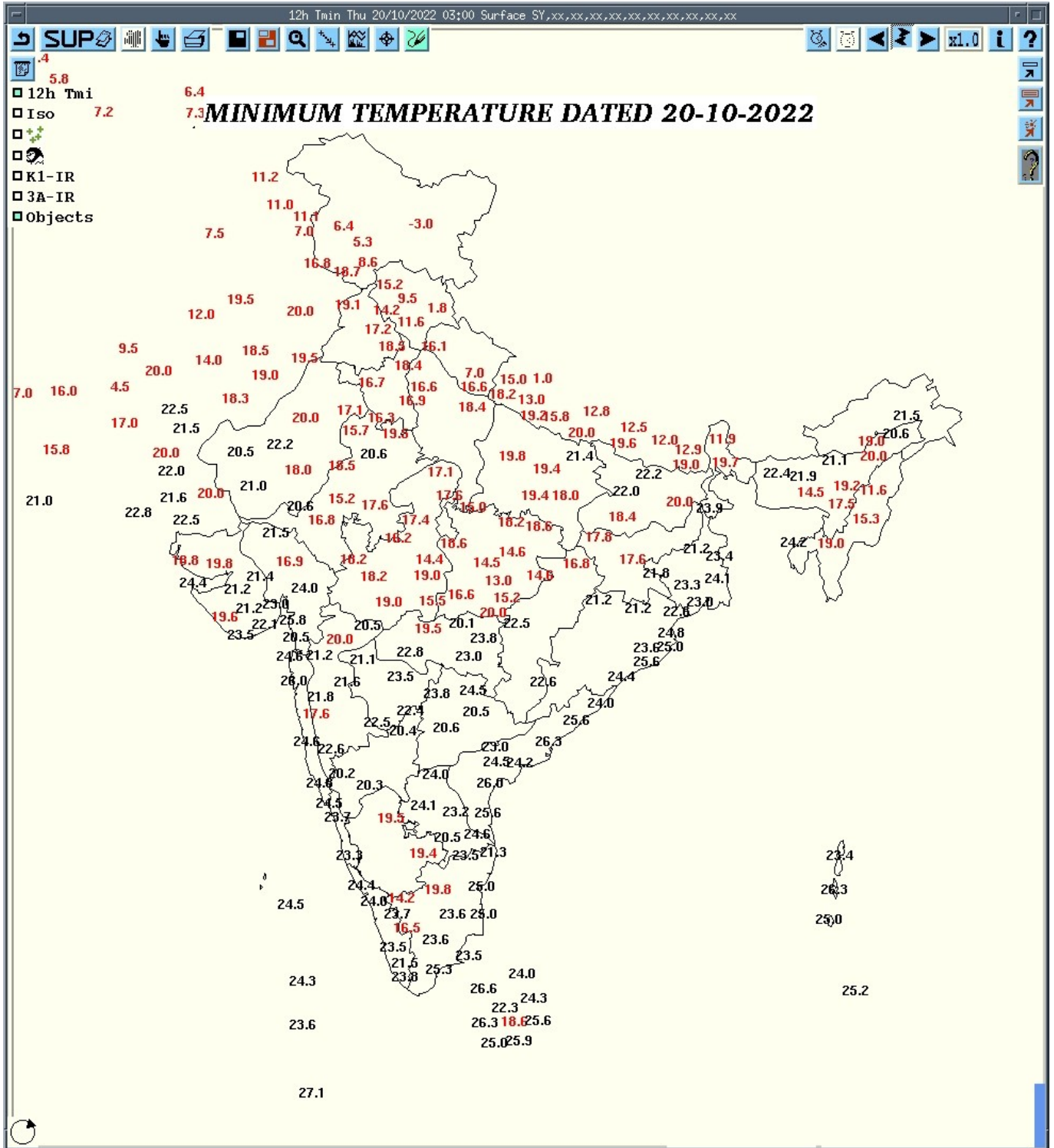
Fig.1 Withdrawal of Southwest Monsoon 2022



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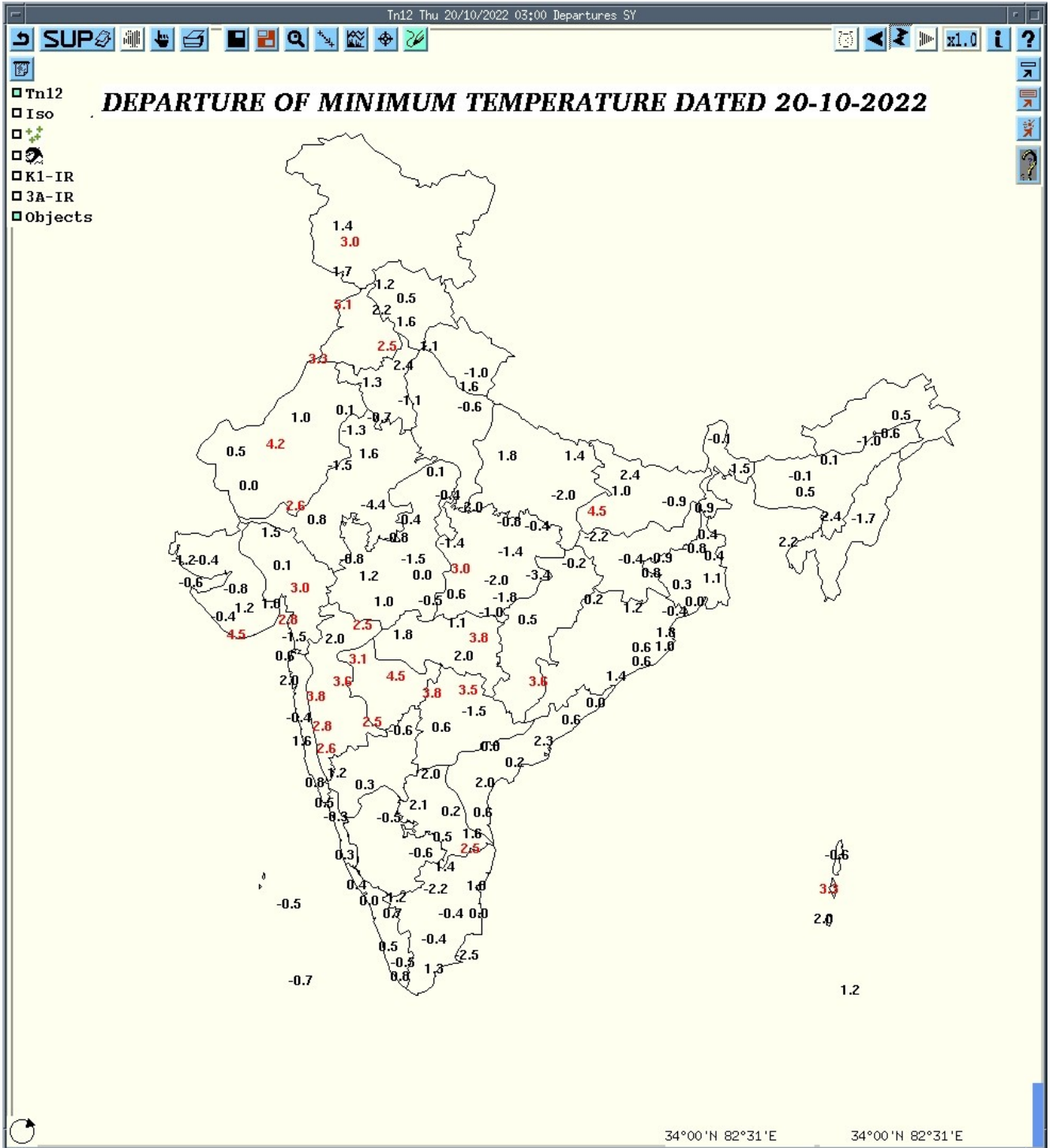
Fig. 4: Minimum Temperature during past 24 hours



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Fig. 6 : Departure from Normal of Minimum Temperatures



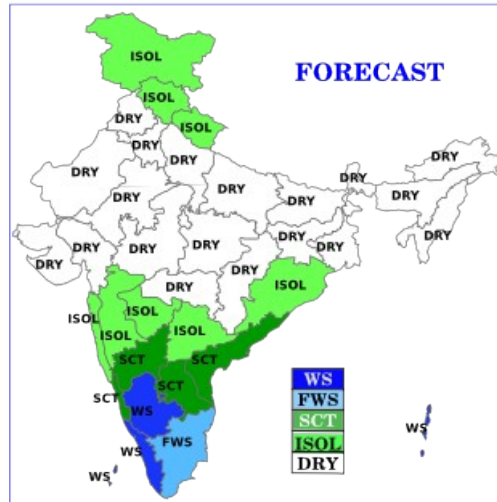
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(Copies to the Meteorologist (G))

Friday 21 October 2022



21 Oct (Day 1): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Madhya Maharashtra, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Southeast Arabian sea and along & off Kerala coast, Lakshadweep, Maldives, Comorin area, Gulf of Mannar; **wind speed reaching 40-50 kmph gusting to 60 kmph** over Andaman Sea and adjoining South Bay of Bengal. Fishermen are advised not to venture into these seas.

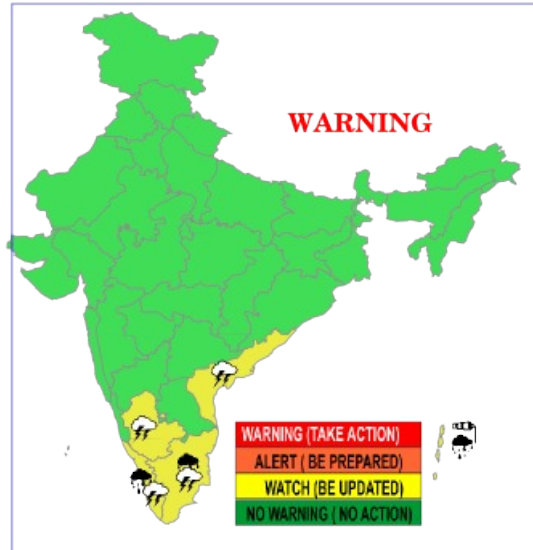
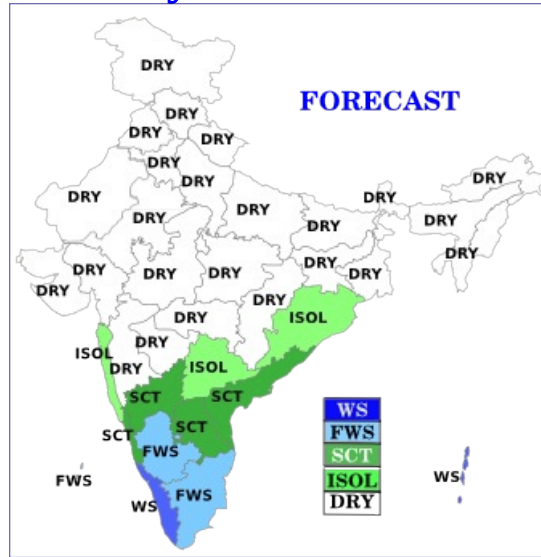
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Saturday 22 October 2022



22 Oct (Day 2): ♦ **Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along & off Lakshadweep, Maldives, Comorin area, Gulf of Mannar and adjoining Southeast Arabian sea; **wind speed reaching 45-50 kmph gusting to 60 kmph** over Andaman sea and adjoining North, Eastcentral, Westcentral & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

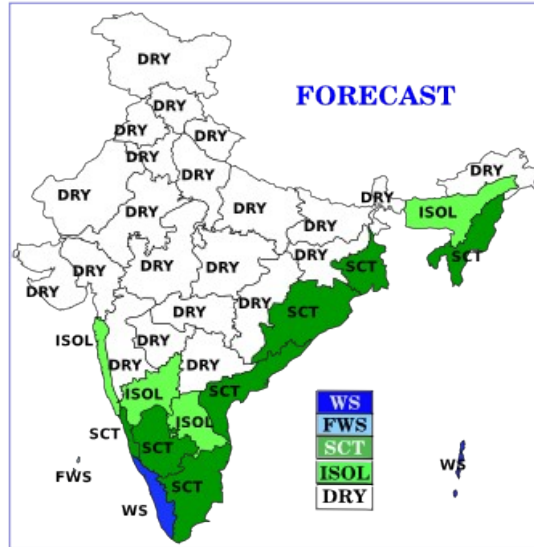
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Sunday 23 October 2022



23 Oct (Day 3): ♦ **Heavy rainfall** at isolated places likely over Odisha, Andaman & Nicobar Islands and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) very likely over along & off Lakshadweep, Maldives, Comorin area, Gulf of Mannar and adjoining Southeast Arabian sea; **wind speed reaching 50-60 kmph gusting to 70 kmph** over Andaman sea, Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

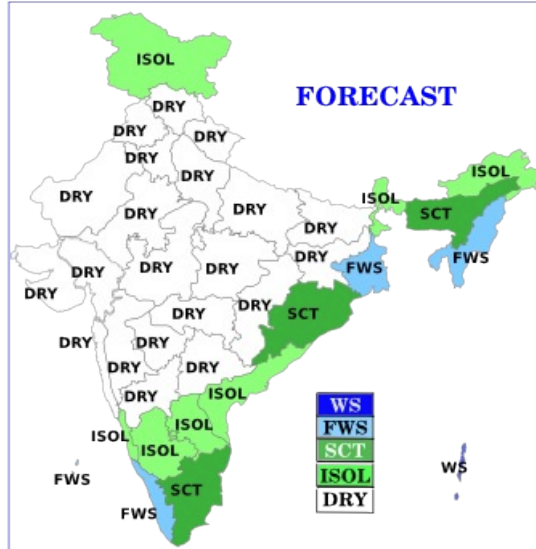
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Monday 24 October 2022



24 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal and Odisha.

♦ Thunderstorm accompanied with lightning at isolated places likely over Kerala & Mahe.

♦ Squally weather (wind speed 60-70 kmph gusting to 80 kmph) very likely over Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

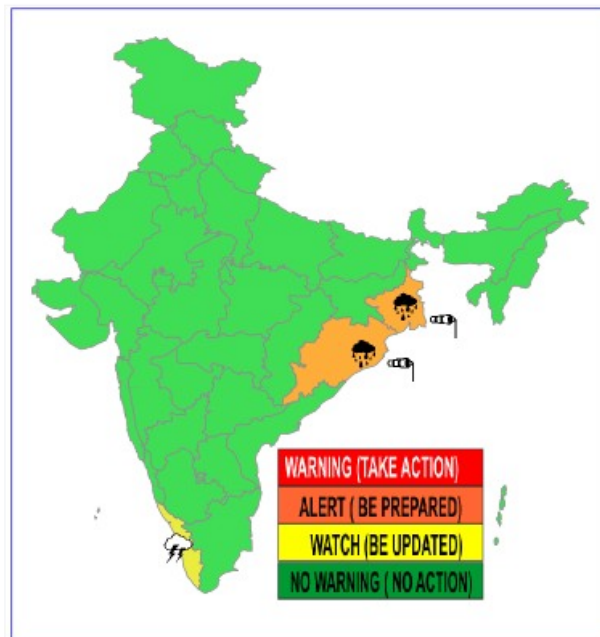
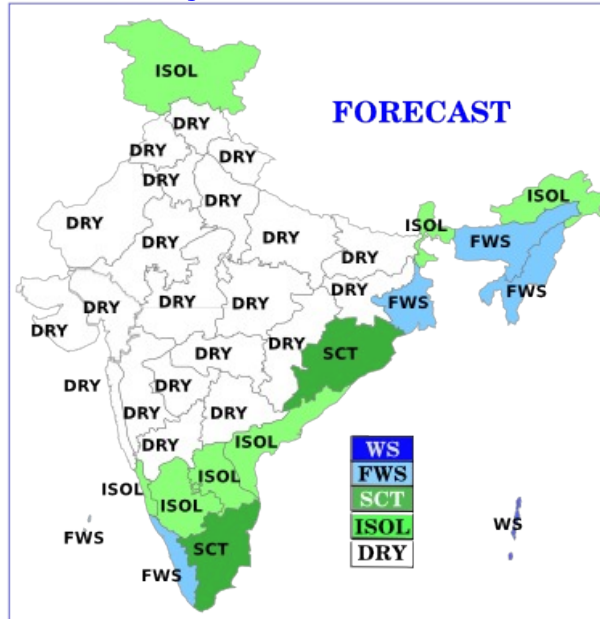
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Tuesday 25 October 2022



25 Oct (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Gangetic West Bengal and Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Kerala & Mahe.

♦ **Squally weather** (wind speed 60-70 kmph gusting to 80 kmph) very likely over Odisha-West Bengal coasts, North Bay of Bengal and adjoining Central & Southeast Bay of Bengal. 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 Meteorologist (GPO))

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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