

Saturday 22 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. 94.5°E/ Lat. 17.0°N, Kakinada, Ramagundam, Buldana, Dahanu and Long. 71.0° E/Lat. 19.5°.

⇒ Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

◆ The **Well Marked Low Pressure Area** over North Andaman Sea and adjoining Southeast Bay of Bengal now lies over Southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal & north Andaman sea and the associated cyclonic circulation extends upto 7.6 Km above mean sea level. It is very likely to move northwestwards and concentrate into a **Depression** over Eastcentral & adjoining Southeast Bay of Bengal on today during next 12 hours and then moving northwestwards, intensify further into a **Deep Depression** over Eastcentral and adjoining Southeast & Westcentral Bay of Bengal on 23rd October. Subsequently, it is very likely to recurve gradually northwards and intensify into a **Cyclonic Storm** over Westcentral & adjoining Eastcentral Bay of Bengal by 24th October. Thereafter, it is likely to move north-northeastwards and reach near West Bengal-Bangladesh coasts by morning of 25th October, skirting Odisha coast.

◆ The trough now runs from **Well Marked Low Pressure Area** over Southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal & north Andaman sea to Southeast Arabian Sea across South Bay of Bengal, Tamilnadu & Kerala and extends upto 5.8 km above mean sea level.

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

o Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls & TS/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 22nd-23rd October, 2022.

o Scattered to Fairly widespread light/moderate rainfall with **isolated heavy falls** very likely over Odisha during 23rd-25th and Gangetic West Bengal during 24th-26th October, 2022. Isolated **very heavy rainfall** also very likely over Odisha on 24th & Gangetic West Bengal on 25th October, 2022.

o Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls** very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 24th-26th and over Arunachal Pradesh on 25th & 26th October, 2022. Isolated **very heavy rainfall** also very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 25th & 26th and over Arunachal Pradesh on 26th October, 2022.

o Widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 22nd-23rd 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 of yesterday):** at most places over Kerala & Mahe; at many places over Andaman & Nicobar Islands and Tamil Nadu, Puducherry & Karaikal; at a few places over Konkan & Goa and Rayalaseema and at isolated places over West Madhya Pradesh, Madhya Maharashtra, South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Lakshadweep.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Isolated heavy rainfall occurred over Andaman & Nicobar Islands.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (1 cm or more):** Car Nicobar-7; Punalur-5; Hut Bay-4; Panjim-3; Palakkad-2; Cochin, Periakulam, Ariyalur and Madurai-1 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at many places over Kerala & Mahe; at isolated places over Madhya Maharashtra, Konkan & Goa, Coastal & North Interior Karnataka, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 21-10-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Marathwada and Telangana; **above normal (1.6°C to 3.0°C)** at many places over Punjab and Coastal Andhra Pradesh & Yanam; at a few places over Rayalaseema; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Gujarat Region, West Madhya Pradesh, Vidarbha and Andaman & Nicobar Islands. They were **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over East Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over East Rajasthan; at a few places over Jharkhand; at isolated places over Odisha and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Yesterday**, the **lowest minimum temperature** of 13.2°C was reported at **Mandla (West Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 21-10-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Assam & Meghalaya; at isolated places over Arunachal Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Coastal Karnataka; at a few places over Uttarakhand and Coastal Andhra Pradesh & Yanam; at isolated places over West Bengal & Sikkim, Saurashtra & Kutch, Telangana, Kerala & Mahe and Lakshadweep. They were **markedly below normal (-5.1°C or less)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Marathwada; at isolated places over Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal; **below normal (-1.6°C to -3.0°C)** at a few places over Madhya Pradesh, Vidarbha and Andaman & Nicobar Islands; at isolated places over Himachal Pradesh, West Rajasthan and North Interior Karnataka and **near normal** over rest parts of the country. **Yesterday**, the **highest maximum temperature** of 37.1°C was reported at **Surendranagar (Saurashtra & Kutch)** over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of Southwest Monsoon passes through Long. 94.5°E/ Lat. 17.0°N, Kakinada, Ramagundam, Buldana, Dahanu and Long. 71.0° E/Lat. 19.5° N.
- ◆ Conditions are favourable for further withdrawal of Southwest Monsoon from the entire country during next 48 hours.
- ◆ The **Well Marked Low Pressure Area** over North Andaman Sea and adjoining Southeast Bay of Bengal now lies over Southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal & north Andaman sea and the associated cyclonic circulation extends upto 7.6 Km above mean sea level. It is very likely to move northwestwards and concentrate into a **Depression** over Eastcentral & adjoining Southeast Bay of Bengal on today during next 12 hours and then moving northwestwards, intensify further into a **Deep Depression** over Eastcentral and adjoining Southeast & Westcentral Bay of Bengal on 23rd October. Subsequently, it is very likely to recurve gradually northwards and intensify into a **Cyclonic Storm** over Westcentral & adjoining Eastcentral Bay of Bengal by 24th October. Thereafter, it is likely to move north-northeastwards and reach near West Bengal-Bangladesh coasts by morning of 25th October, skirting Odisha coast.
- ◆ The trough now runs from **Well Marked Low Pressure Area** over Southeast Bay of Bengal and adjoining areas of eastcentral Bay of Bengal & north Andaman sea to Southeast Arabian Sea across South Bay of Bengal, Tamilnadu & Kerala and extends upto 5.8 km above mean sea level.
- ◆ The Western Disturbance as a cyclonic circulation over northern parts of Jammu & Kashmir now lies over eastern parts of Jammu & Kashmir at 5.8 km above mean sea level.
- ◆ The cyclonic circulation over north Haryana & neighbourhood persists and now extends upto 0.9 km above mean sea level.

Weather Forecast for next 5 days * upto 0830 hours IST of 27th 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 27th-29th 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 *

22 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 Marathwada, Madhya Maharashtra, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over southeast & adjoining eastcentral Bay of Bengal, Andaman Islands and Andaman Sea. Fishermen are advised not to venture into these seas.

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

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

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal. **Squally wind** speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts. Fishermen are advised not to venture into these seas.

24 Oct (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha and **heavy rainfall** at isolated places over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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

♦ **Gale wind** speed reaching 70-80 kmph gusting to 90 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely along & off Odisha and West Bengal coasts from morning of 24th October and increase gradually thereafter. Fishermen are advised not to venture into these seas.

25 Oct (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Odisha and Arunachal Pradesh.

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

♦ **Gale wind** speed reaching 90-100 kmph gusting to 110 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along and off Odisha coast. Fishermen are advised not to venture into these seas.

26 Oct (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Gangetic West Bengal.

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

♦ **Gale wind** speed reaching 60-70 kmph gusting to 80 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and **squally wind** speed reaching 40-50 kmph gusting to 60 kmph likely along and off north Odisha 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)
22-October-2022

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

% 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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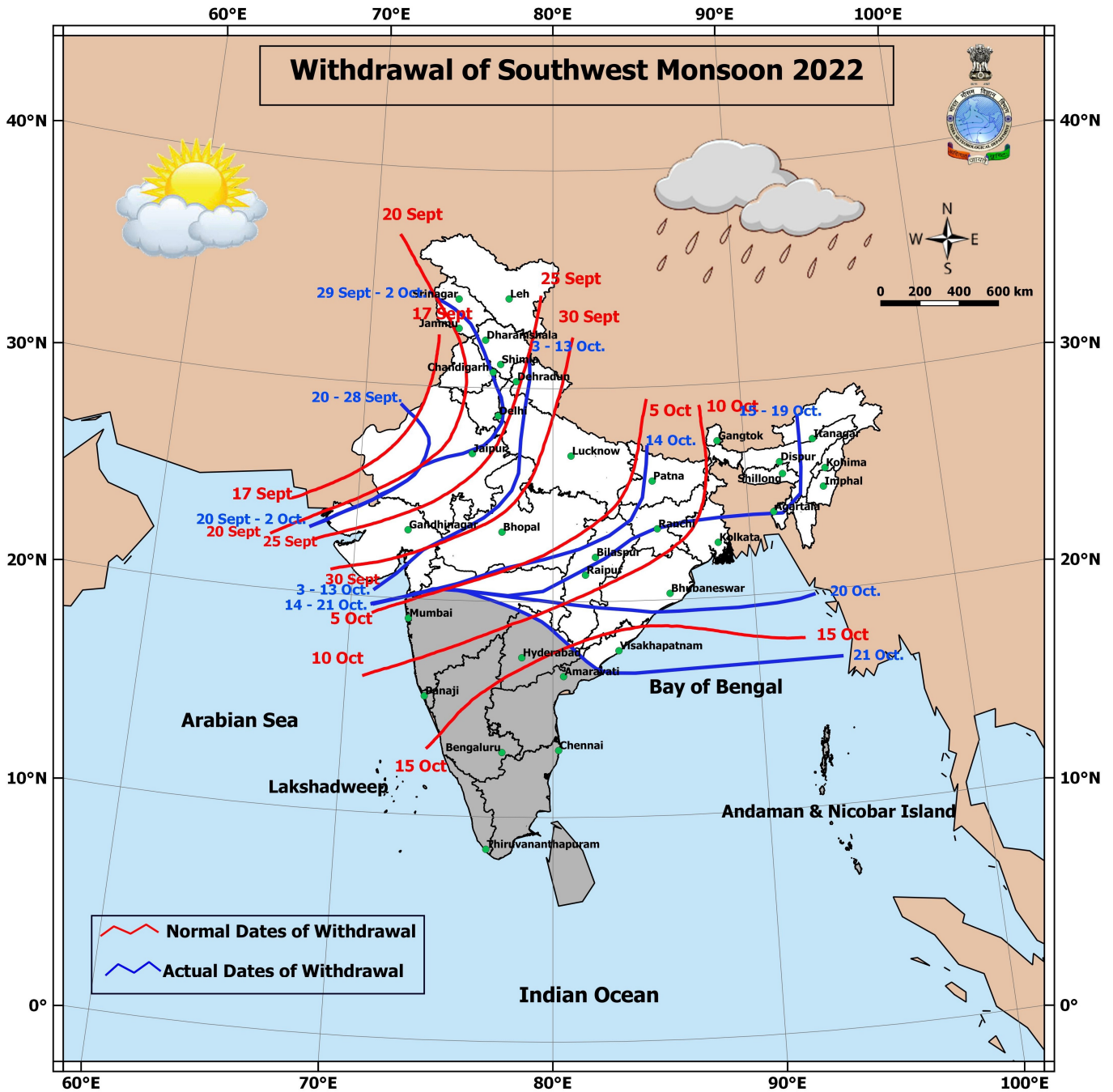
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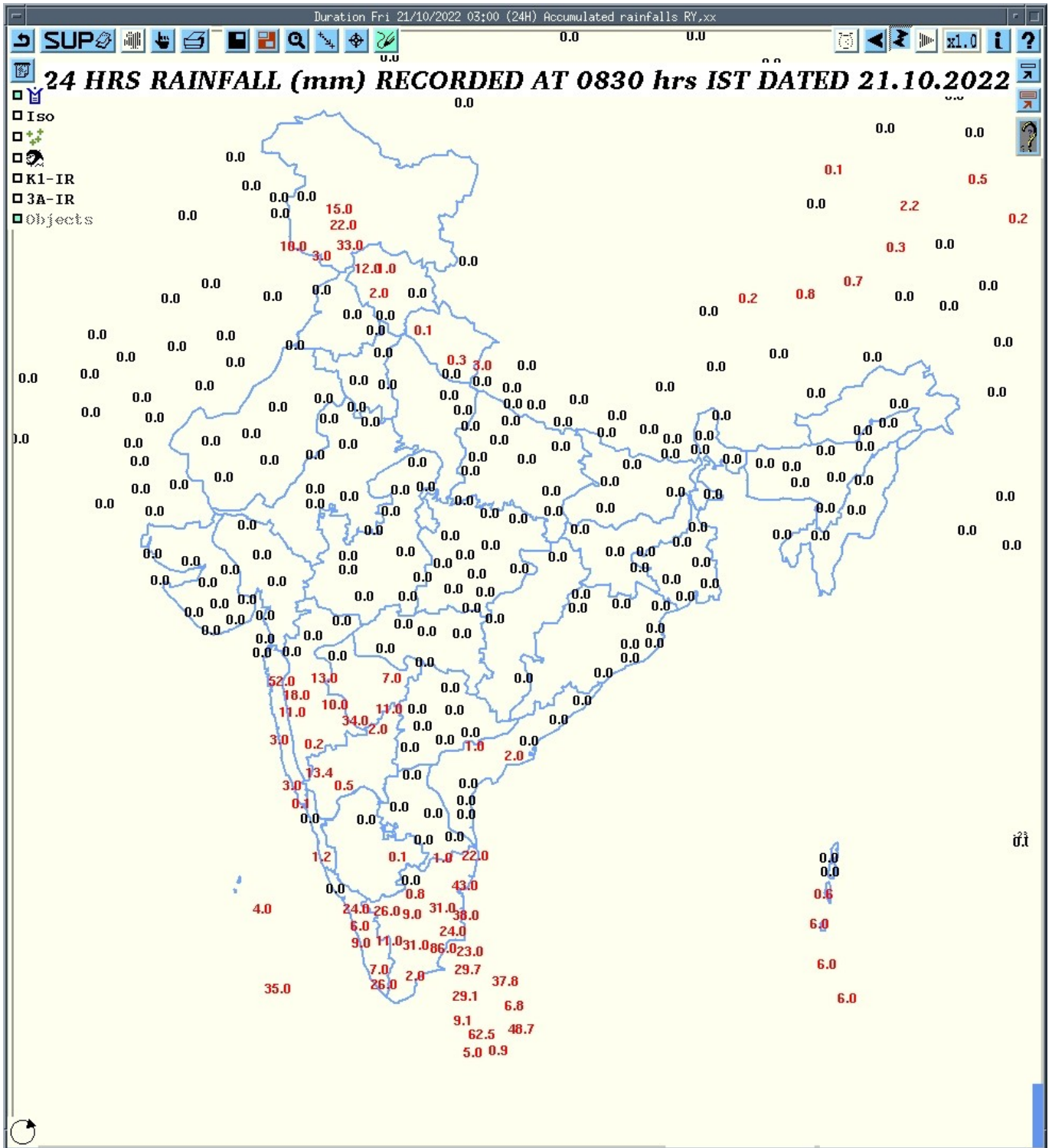
Fig.1 Withdrawal of Southwest Monsoon 2022



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Fig. 2: Accumulated Rainfall (mm) during past 24 hours



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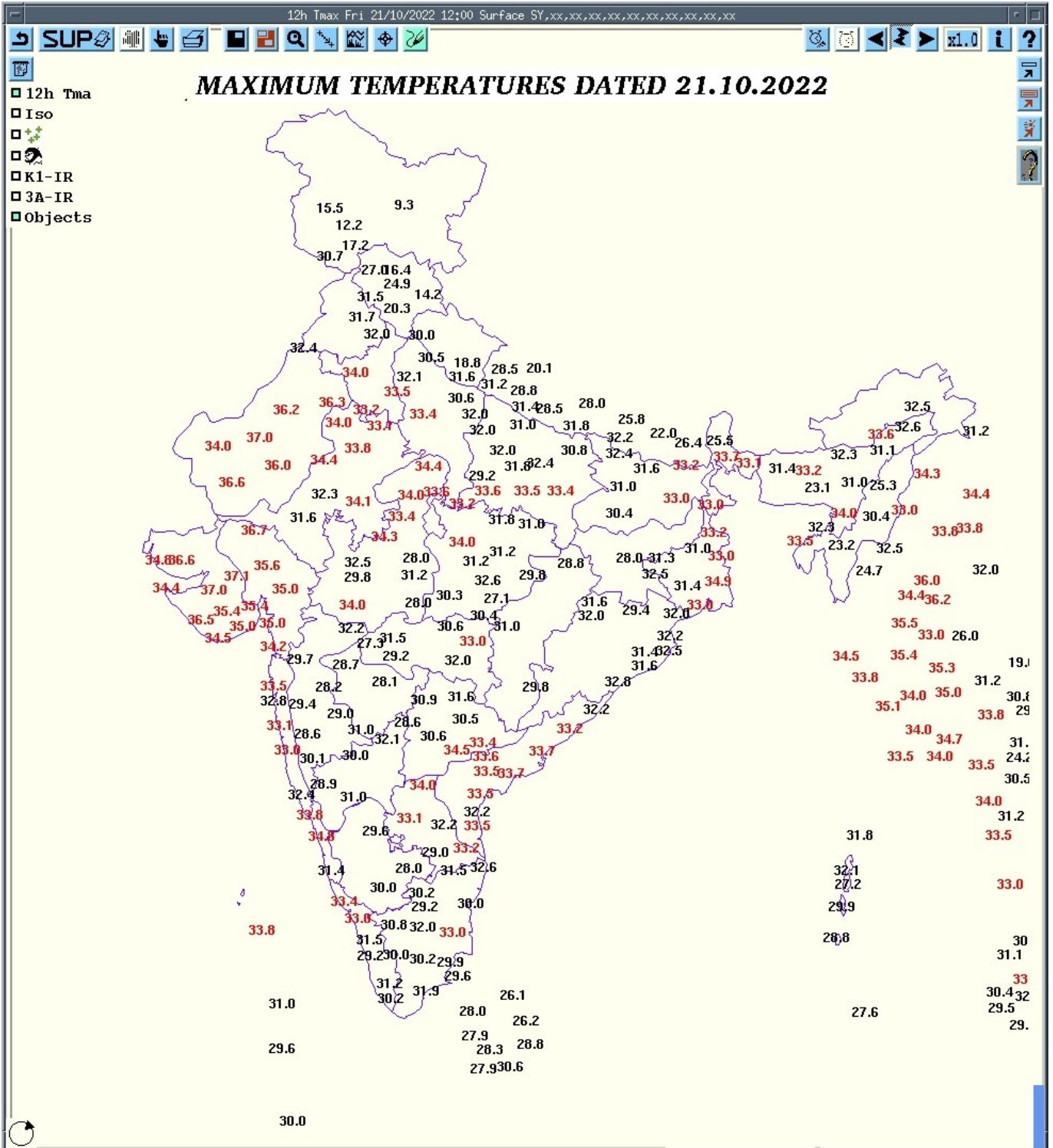
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(Copies to the Meteorologist (GPO))



Fig. 3: Maximum Temperature during past 24 hours



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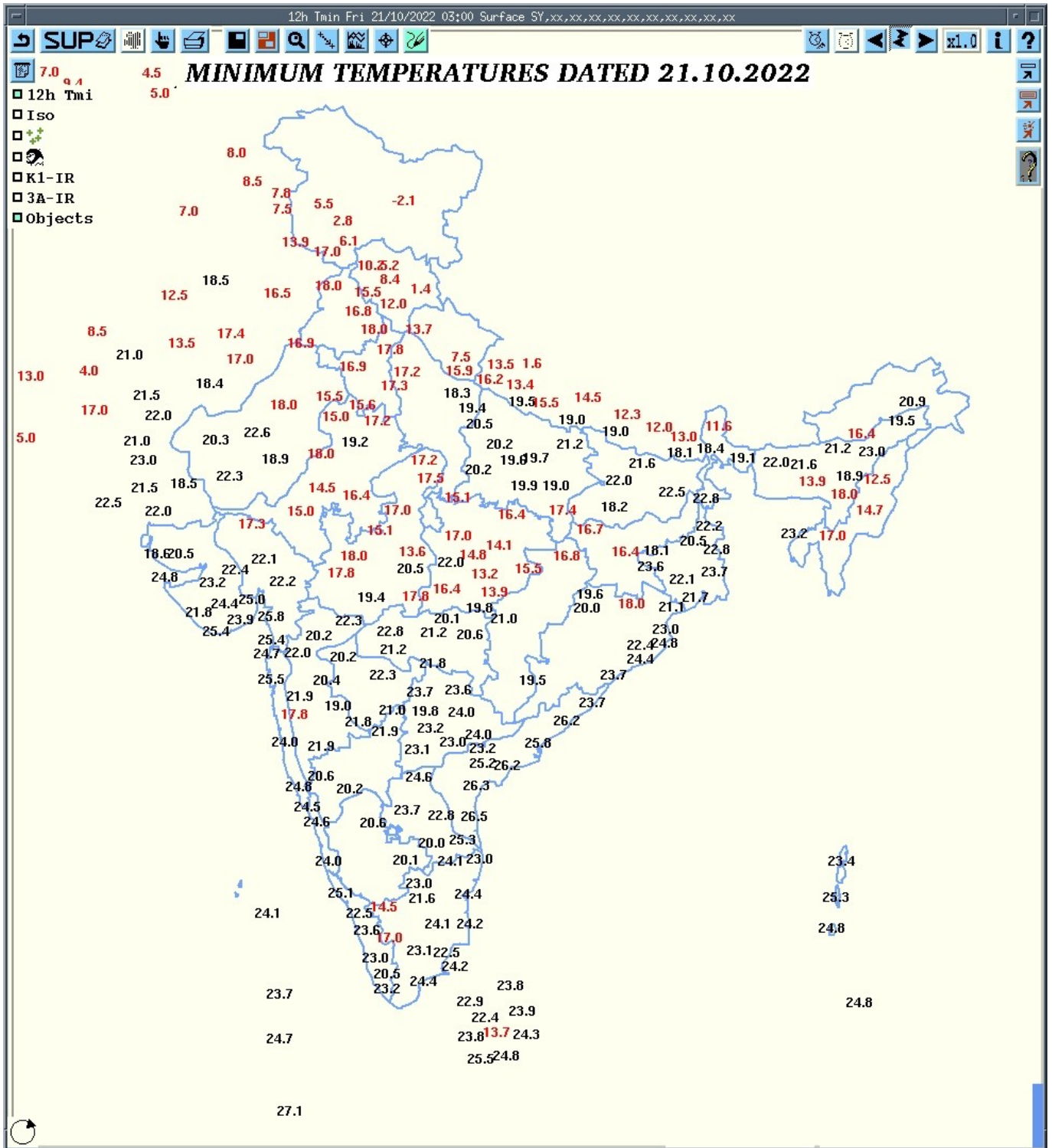
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(Created by the National Grid 4870)

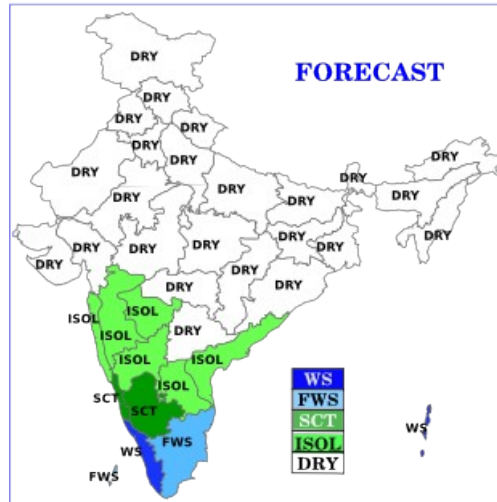


Fig. 4: Minimum Temperature during past 24 hours



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Saturday 22 October 2022



22 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 Marathwada, Madhya Maharashtra, Konkan & Goa, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over southeast & adjoining eastcentral Bay of Bengal, Andaman Islands and Andaman Sea. Fishermen are advised not to venture into these seas.

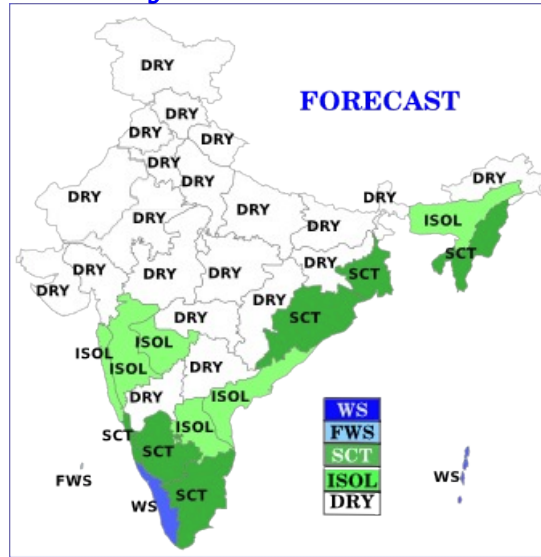
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Sunday 23 October 2022



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

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

♦ **Squally wind** speed reaching 55-65 kmph gusting to 75 kmph is very likely over westcentral and adjoining eastcentral & southeast Bay of Bengal. **Squally wind** speed reaching 35-45 kmph gusting to 55 kmph is very likely along & off Odisha and West Bengal coasts. Fishermen are advised not to venture into these seas.

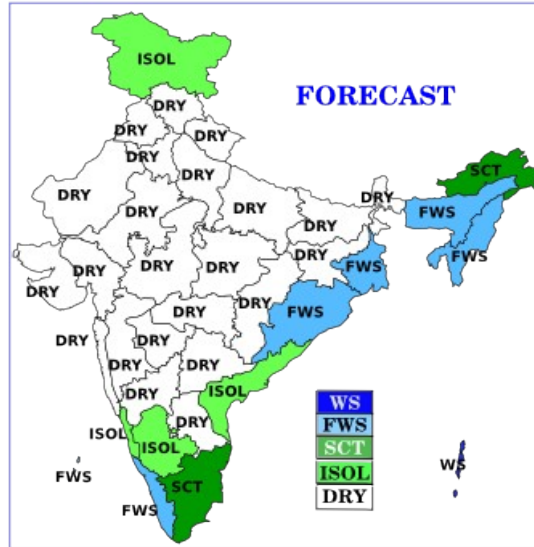
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Monday 24 October 2022



24 Oct (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha and **heavy rainfall** at isolated places over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

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

♦ **Gale wind** speed reaching 70-80 kmph gusting to 90 kmph is likely over westcentral and adjoining areas of eastcentral & north Bay of Bengal. **Squally wind** speed reaching 45-55 kmph gusting to 65 kmph is very likely along & off Odisha and West Bengal coasts from morning of 24th October and increase gradually thereafter. Fishermen are advised not to venture into these seas.

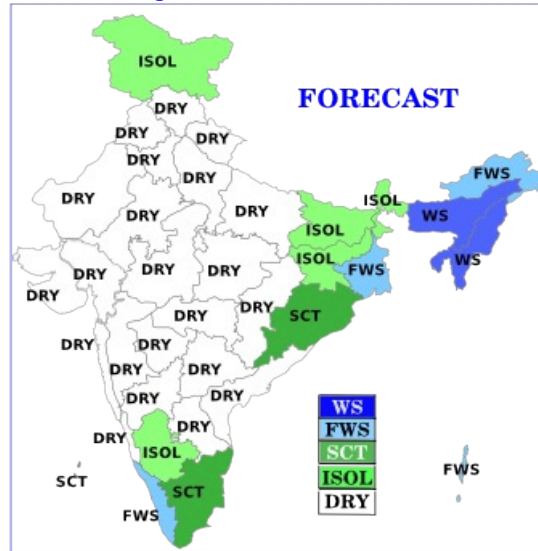
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Tuesday 25 October 2022



25 Oct (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Gangetic West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Odisha and Arunachal Pradesh.

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

♦ **Gale wind** speed reaching 90-100 kmph gusting to 110 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and squally wind speed reaching 50-60 kmph gusting to 70 kmph likely along and off Odisha coast. Fishermen are advised not to venture into these seas.

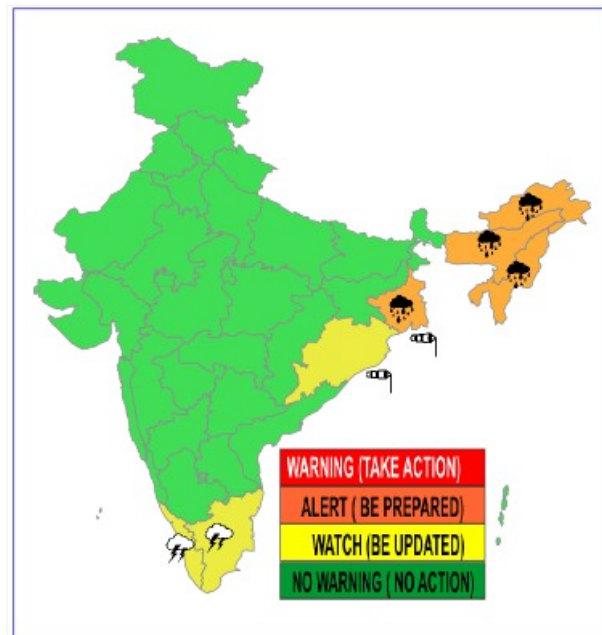
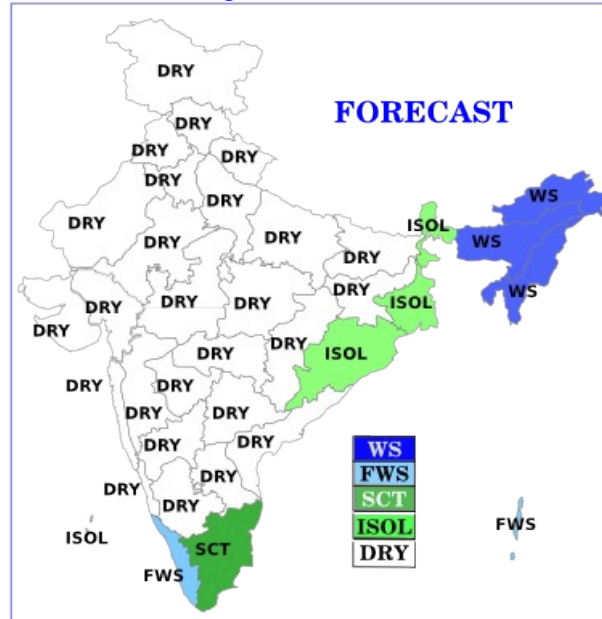
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Wednesday 26 October 2022



26 Oct (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **heavy rainfall** at isolated places over Gangetic West Bengal.

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

♦ **Gale wind** speed reaching 60-70 kmph gusting to 80 kmph is likely over north and adjoining central Bay of Bengal and along & off West Bengal and Bangladesh coasts and **squally wind** speed reaching 40-50 kmph gusting to 60 kmph likely along and off north Odisha 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 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

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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