



Thursday 20 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 28.6°N, 93.6°E, Lumding, Kailashahar, Berhampore, Kanke, Bilaspur, Brahmapuri, 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, Chhattisgarh, Jharkhand, some parts of Odisha, entire West Bengal & remaining parts of Northeastern States during next 24 hours.

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

◆ Under the influence of the cyclonic circulation over north Andaman Sea & neighbourhood, a Low Pressure Area has formed 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. It is very likely to move west-northwestwards and concentrate into a Depression by 22nd October over Central & adjoining Southeast Bay of Bengal. It is very likely to intensify further into a Cyclonic Storm over Westcentral Bay of Bengal during subsequent 48 hours.

◆ A trough runs from the 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 Eastcentral Arabian Sea off Maharashtra coast in lower tropospheric levels.

◆ A north-south trough runs from Southeast Arabian Sea off Kerala coast to cyclonic circulation over Eastcentral Arabian Sea off Maharashtra coast in lower tropospheric levels.

◆ A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long 70°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 and Kerala & Mahe during 20th-22nd and South Interior Karnataka and Lakshadweep on 20th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Odisha on 23rd & 24th and Gangetic West Bengal and Tripura on 24th October, 2022. **Isolated very heavy rainfall also very likely over coastal Odisha on 24th October, 2022.**

o Widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 20th-22nd October, 2022.

o Isolated light rainfall/snowfall over Western Himalayan Region during next 2 days.

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 a few places over Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Rayalaseema and Andaman & Nicobar Islands and **at isolated places over** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Madhya Maharashtra, Lakshadweep, Coastal Andhra Pradesh & Yanam, Vidarbha, Chhattisgarh and Gangetic West Bengal.
- ◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST yesterday):** Isolated heavy rainfall occurred over Tamil Nadu.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST yesterday): (1 cm or more):** Salem-7; Valprai-6; Car Nicobar-5; Madurai and Long Islands-4; Minicoy Islands-2 and Raichur-1.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, Madhya Maharashtra, Marathwada, Karnataka, Coastal Andhra Pradesh, Rayalaseema and Tamil Nadu.
- ◆ **Minimum Temperature Departures (as on 19-10-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Madhya Maharashtra; at a few places over Vidarbha and Telangana; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Chhattisgarh and Marathwada; at many places over Gangetic West Bengal and Nagaland, Manipur, Mizoram & Tripura; at a few places over Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, Odisha, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema; at isolated places over Saurashtra & Kutch. They were **below normal (-1.6°C to -3.0°C)** at a few places over East Madhya Pradesh; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, West Rajasthan, Coastal Karnataka and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Yesterday, the lowest minimum temperature of 14.0°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.**
- ◆ **Maximum Temperature Departures (as on 19-10-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over West Rajasthan, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Assam & Meghalaya and at isolated places over Telangana, Sub-Himalayan West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at a few places over Madhya Pradesh, Odisha and Andaman & Nicobar Islands and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka and Lakshadweep and **near normal** over rest parts of the country. **Yesterday, the highest maximum temperature of 37.8°C was reported at Phalodi (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 28.6°N, 93.6°E, Lumding, Kailashahar, Berhampore, Kanke, Bilaspur, Brahmmapuri, 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, Chhattisgarh, Jharkhand, some parts of Odisha, entire West Bengal & remaining parts of Northeastern states during next 24 hours.
- ◆ Under the influence of the cyclonic circulation over north Andaman Sea & neighbourhood, a Low Pressure Area has formed 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. It is very likely to move west-northwestwards and concentrate into a Depression by 22nd October over Central & adjoining Southeast Bay of Bengal. It is very likely to intensify further into a Cyclonic Storm over Westcentral Bay of Bengal during subsequent 48 hours.
- ◆ The trough from cyclonic circulation over north Andaman sea & neighbourhood now runs from the 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 extending upto 3.1 km above mean sea level.
- ◆ The cyclonic circulation over Eastcentral Arabian sea off Maharashtra coast extending upto 1.5 km above mean sea level persists.
- ◆ The north-south trough from Southeast Arabian Sea off Kerala coast to cyclonic circulation over Eastcentral Arabian Sea off Maharashtra coast extending upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Southwest Arabian Sea & neighbourhood extending upto 3.1 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 roughly along Long 70°E to the north of Lat 32°N persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 25th 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 25th-27th October, 2022

- ◆ Fairly widespread light/moderate rainfall with isolated heavy falls very likely over over parts of east & northeast India. Isolated light rainfall very likely over parts of south peninsular India, Islands and Western Himalayan region.
- ◆ Dry weather is likely over rest parts of the country.

## Weather Warning during next 5 days \*

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

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over south Sri Lanka Coast and adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

**21 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 Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over south Sri Lanka Coast and adjoining Southwest, Southeast & East Central Bay of Bengal and north Andaman Sea. Fishermen are advised not to venture into these seas.

**22 Oct (Day 3): ♦ 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, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over Eastcentral & Westcentral Bay of Bengal and adjoining Northwest & Northeast Bay of Bengal. Fishermen are advised not to venture into these seas.

**23 Oct (Day 4): ♦ Heavy rainfall** at isolated places likely over Odisha

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Southeast & adjoining central Bay of Bengal and adjoining Andaman Sea. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over North & adjoining Central Bay of Bengal and along & off north Coastal Andhra Pradesh, Odisha & West Bengal Coasts. Fishermen are advised not to venture into these seas.

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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha and north Coastal Andhra Pradesh.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Southeast & adjoining central Bay of Bengal and adjoining Andaman Sea. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over North & adjoining Central Bay of Bengal and along & off north Coastal Andhra Pradesh, Odisha & West Bengal Coasts. 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)**  
**20-October-2022**

Met-Sub-Division	20-Oct Today	21Oct Fri	22Oct Sat	23Oct Sun	24Oct Mon
1. Andaman & Nicobar Islands	WS	WS	WS	WS	FWS
2. Arunachal Pradesh	DRY	DRY	DRY	DRY	DRY
3. Assam & Meghalaya	DRY	DRY	ISOL	ISOL	ISOL
4. N. M. M. & T.	ISOL	ISOL	ISOL	SCT	FWS
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	FWS	WS
7. Odisha	ISOL	ISOL	ISOL	SCT	FWS
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	ISOL	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	ISOL	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	ISOL	DRY	DRY	DRY
16. J & K and Ladakh	SCT	DRY	DRY	DRY	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	SCT	ISOL	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	ISOL	DRY	DRY	DRY
25. Marathawada	ISOL	ISOL	DRY	DRY	DRY
26. Vidharbha	ISOL	DRY	DRY	DRY	DRY
27. Chhattisgarh	ISOL	DRY	DRY	DRY	DRY
28. Coastal A. P. & Yanam	SCT	SCT	SCT	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	SCT	SCT	SCT	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	SCT	ISOL
32. Coastal Karnataka	FWS	FWS	FWS	SCT	ISOL
33. North Interior Karnataka	FWS	FWS	FWS	ISOL	ISOL
34. South Interior Karnataka	WS	WS	FWS	SCT	ISOL
35. Kerala & Mahe	WS	WS	WS	WS	SCT
36. Lakshadweep	WS	WS	WS	WS	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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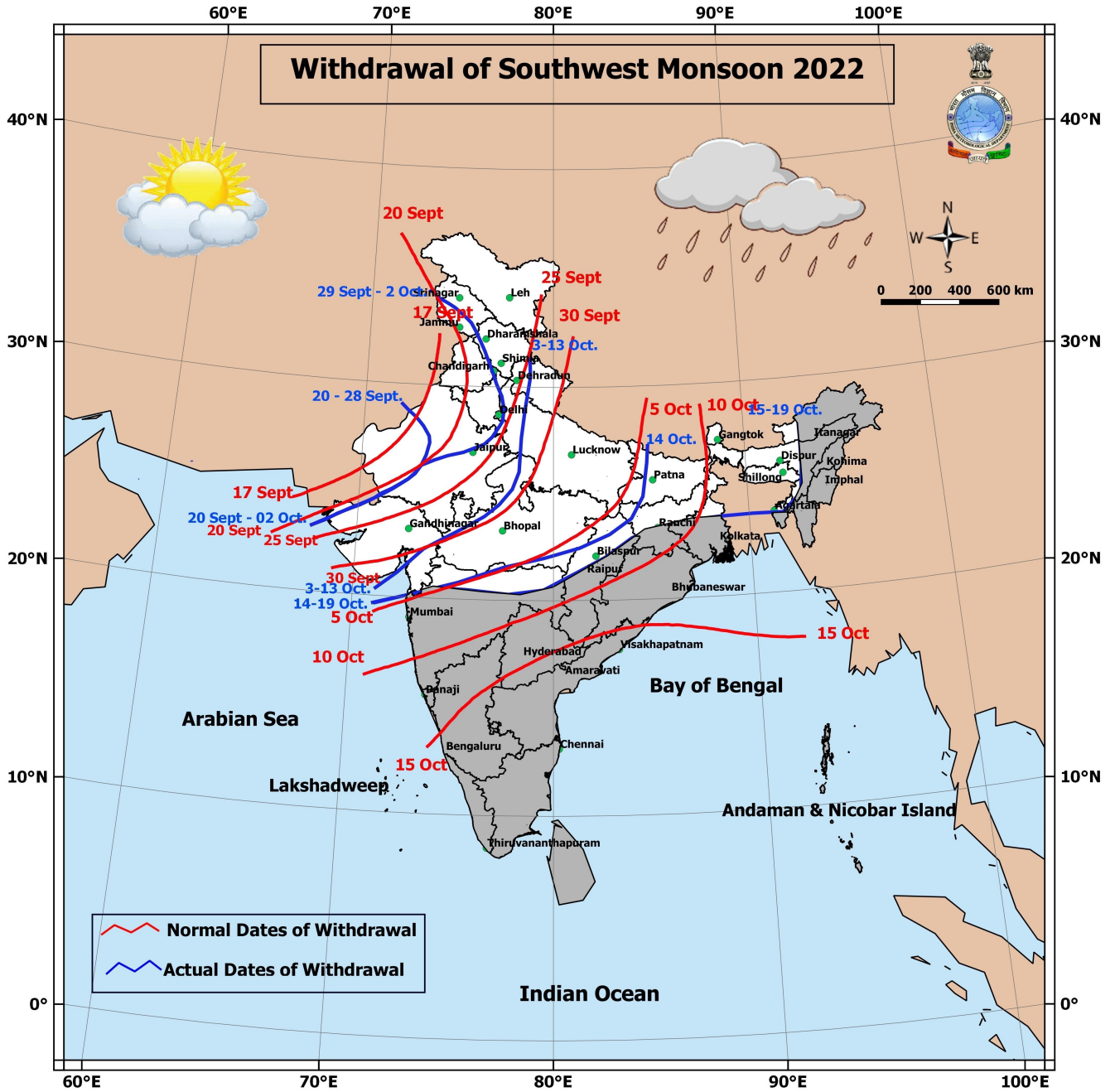
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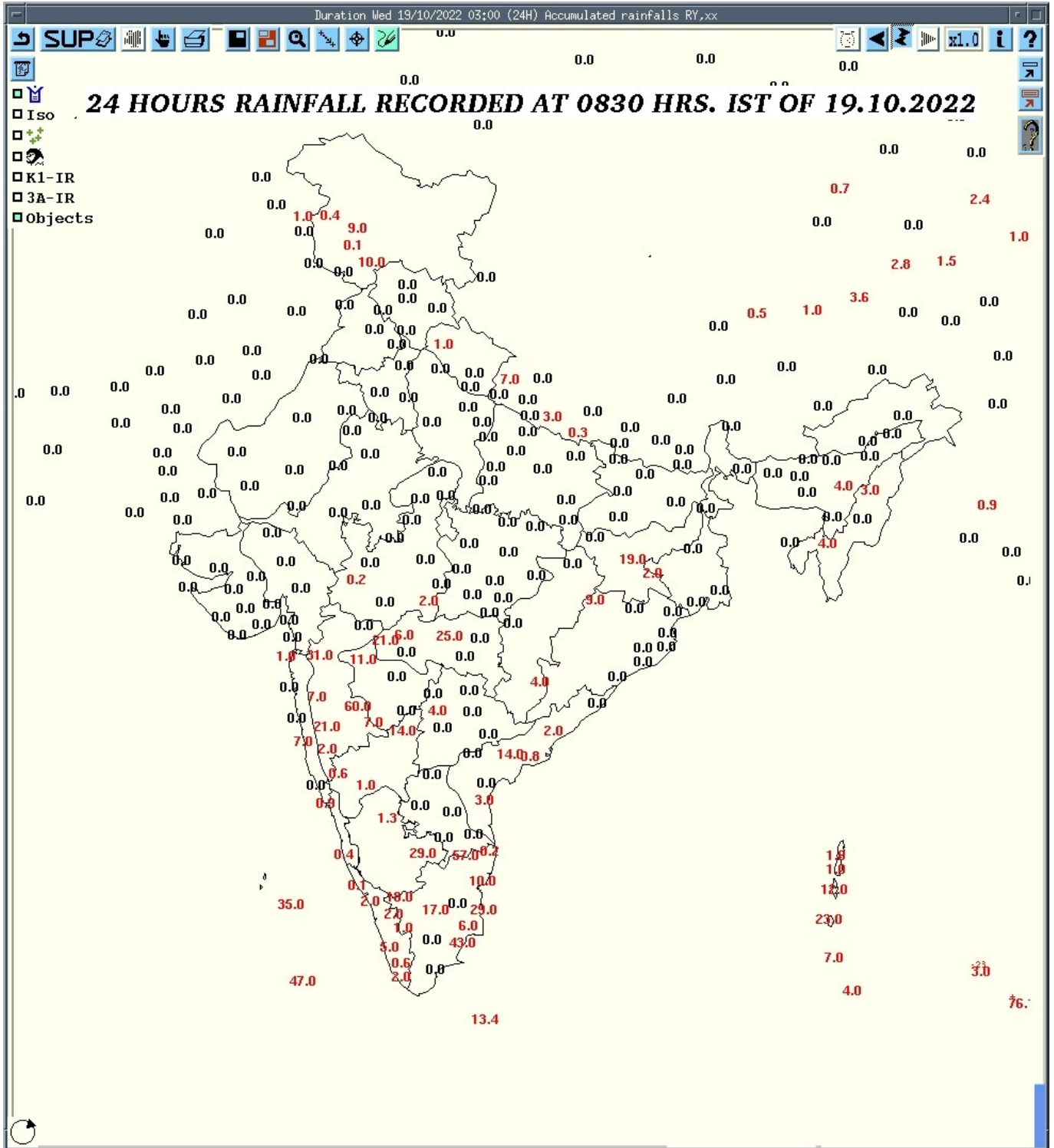
Fig.1 Withdrawal of Southwest Monsoon 2022



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



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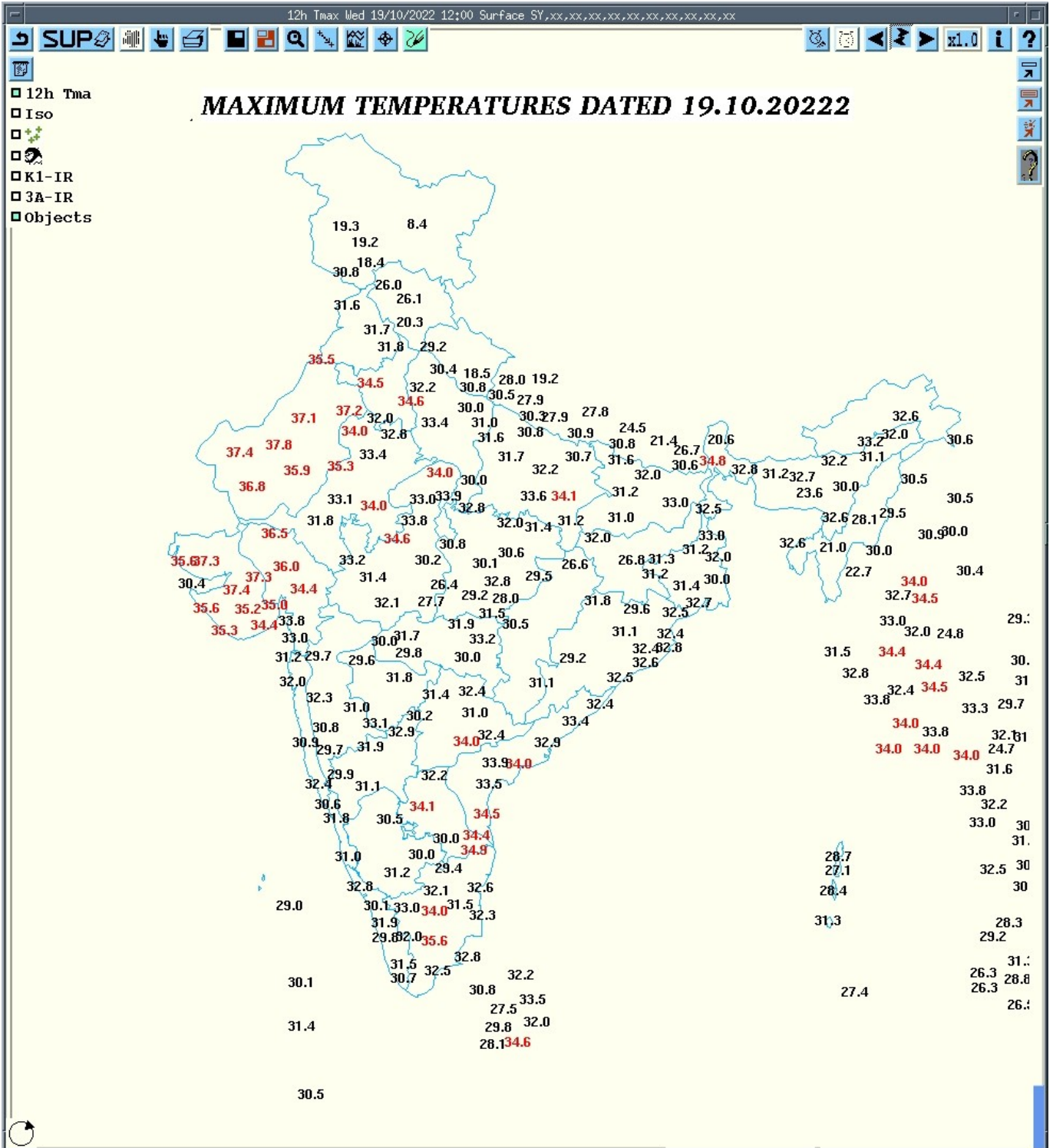
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(Created by the MetInfo team 19/10/2022)



Fig. 3: Maximum Temperature during past 24 hours



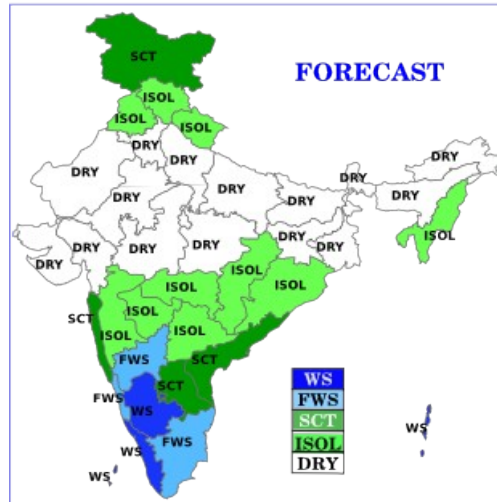
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## Thursday 20 October 2022



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

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over south Sri Lanka Coast and adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these seas.

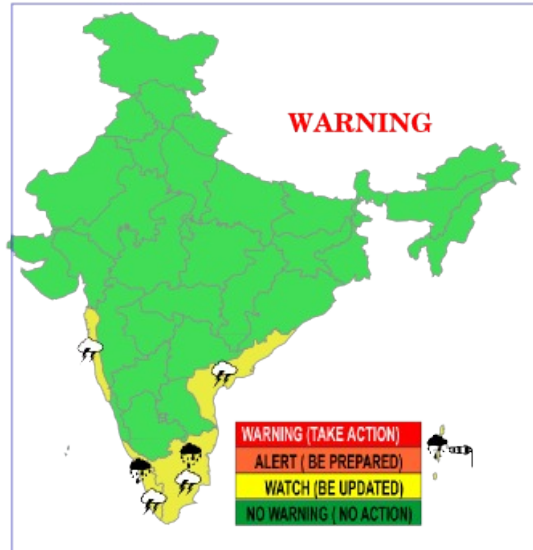
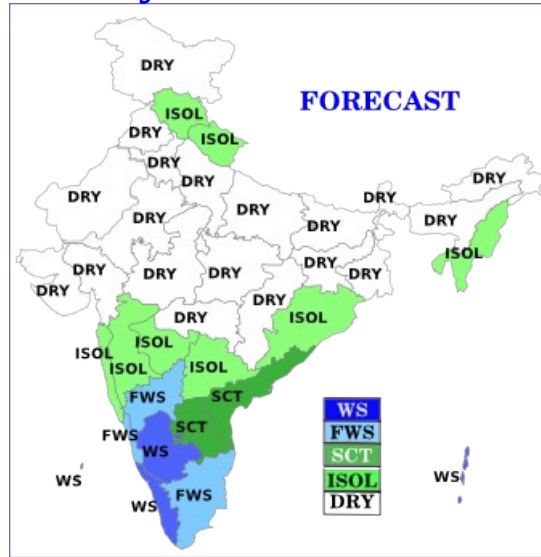
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## Friday 21 October 2022



21 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 Konkan & Goa, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over south Sri Lanka Coast and adjoining Southwest, Southeast & East Central Bay of Bengal and north Andaman Sea. Fishermen are advised not to venture into these seas.

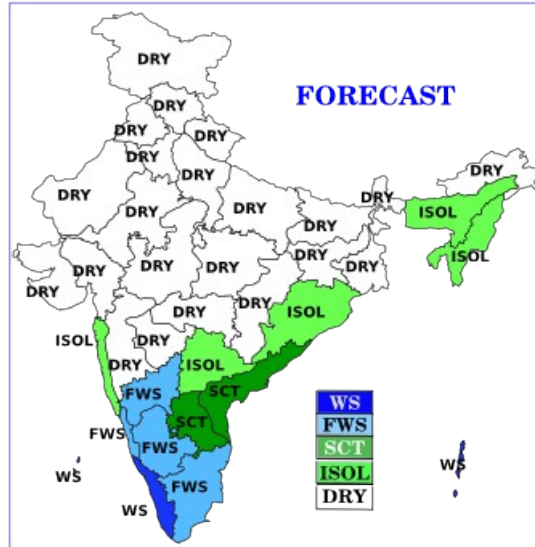
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## Saturday 22 October 2022



22 Oct (Day 3): ♦ **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, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) very likely over Andaman Sea and adjoining Southeast & Southwest Bay of Bengal. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over Eastcentral & Westcentral Bay of Bengal and adjoining Northwest & Northeast Bay of Bengal. Fishermen are advised not to venture into these seas.

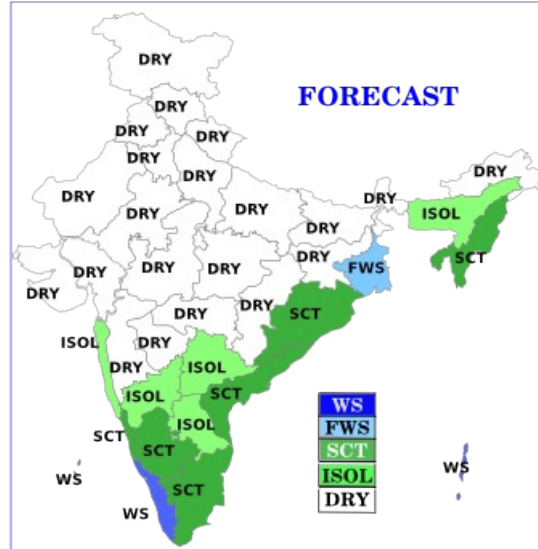
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## Sunday 23 October 2022



23 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Odisha

♦ Thunderstorm accompanied with lightning at isolated places likely over Gangetic West Bengal and Kerala & Mahe.

♦ Squally weather (wind speed 40-45 kmph gusting to 55 kmph) likely over Southeast & adjoining central Bay of Bengal and adjoining Andaman Sea. Squally wind (wind speed 45-55 kmph gusting to 65 kmph) over North & adjoining Central Bay of Bengal and along & off north Coastal Andhra Pradesh, Odisha & West Bengal Coasts. Fishermen are advised not to venture into these seas.

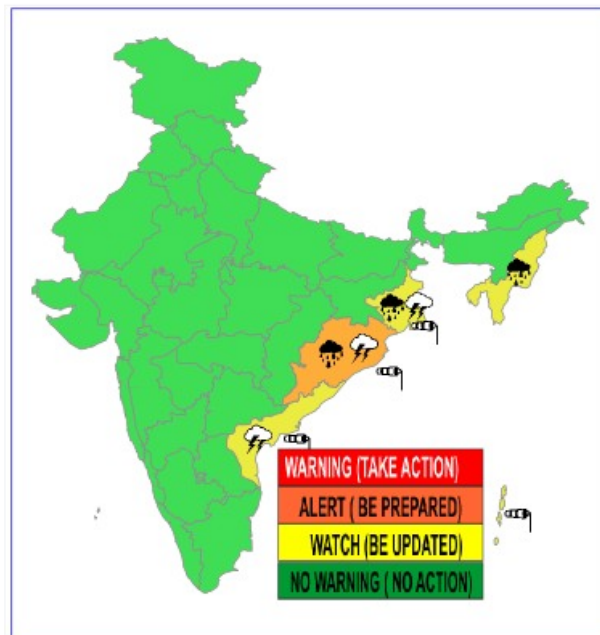
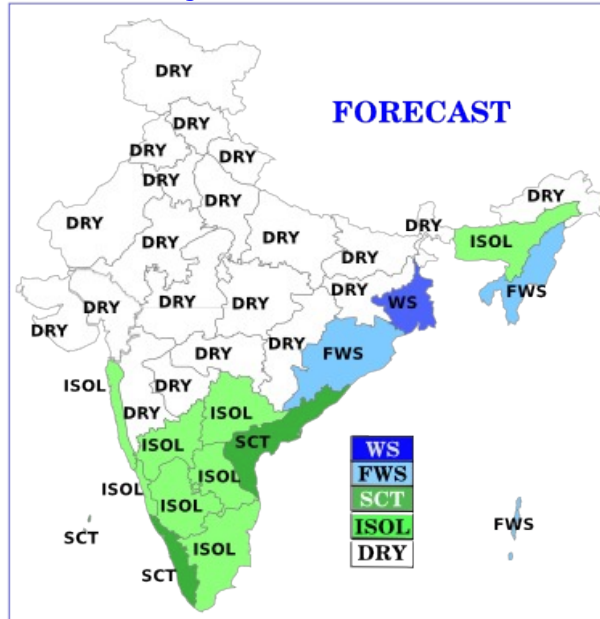
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## Monday 24 October 2022



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

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha and north Coastal Andhra Pradesh.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Southeast & adjoining central Bay of Bengal and adjoining Andaman Sea. **Squally wind** (wind speed 45-55 kmph gusting to 65 kmph) over North & adjoining Central Bay of Bengal and along & off north Coastal Andhra Pradesh, Odisha & West Bengal Coasts. 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

<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

\* 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

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, 24643965, 24629798

(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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(Created by the Meteorology Dept.)