



Saturday 15 October 2022

MORNING

Time of Issue: 0750 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 Raxaul, Daltonganj, Pendra Road, Chhindwara, Jalgaon, Dahanu, Long. 71.0°E/Lat. 19.5°N.

⇒ Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from remaining parts of Central India; some more parts of Maharashtra & East India and some parts of Northeast India during next 2 days.

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

⇒ A cyclonic circulation lies over westcentral & adjacent southwest Bay of Bengal in lower tropospheric levels.

⇒ A cyclonic circulation lies over eastcentral Arabian Sea off Karnataka coast in lower & middle tropospheric levels.

⇒ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 18th October 2022.

**⇒ 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 15th-19th; South Interior Karnataka during 15th-17th; North Interior Karnataka during 15th-16th; Telangana and Coastal Karnataka on 15th and Lakshadweep on 18th & 19th October, 2022. **Isolated very heavy rainfall also likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe on 17th & 18th October, 2022.**

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 15th–19th October, 2022.

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

Main Weather Observations

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

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday ):** at most places over Madhya Maharashtra and Marathwada; at many places over Coastal Andhra Pradesh & Yanam and Rayalaseema; at a few places over Chhattisgarh, Gangetic West Bengal, Odisha, Arunachal Pradesh, Konkan & Goa and Interior Karnataka and at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Isolated heavy rainfall occurred over Madhya Maharashtra.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more):** Pune-7; Parbhani-6; Nizamabad & Kolkata (Dum-Dum)-4 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today ):** at isolated places over Chhattisgarh, Gangetic West Bengal, Odisha, Assam & Meghalaya, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Minimum Temperature Departures (as on 14-10-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at most places over Chhattisgarh; at many places over Punjab, Odisha and Vidarbha; at a few places over Assam & Meghalaya, East Madhya Pradesh, Madhya Maharashtra and Marathwada; at isolated places over Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Telangana and Tamil Nadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 14.5°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 14-10-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Kerala & Mahe; at isolated places over Tamil Nadu, Puducherry & Karaikal. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Haryana, Chandigarh & Delhi and Marathwada; at a few places over West Madhya Pradesh and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at many places over West Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka; at a few places over Vidarbha, Chhattisgarh and at isolated places over East Uttar Pradesh and Bihar and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.6°C was reported at Bhuj (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** continues to pass through Raxaul, Daltonganj, Pendra Road, Chhindwara, Jalgaon, Dahanu, Long. 71.0°E/Lat. 19.5°N.
- ◆ Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from remaining parts of Central India; some more parts of Maharashtra & East India and some parts of Northeast India during next 2 days.
- ◆ The cyclonic circulation over westcentral & adjacent southwest Bay of Bengal extending upto 3.1 km above mean sea level tilting southwards with height persists.
- ◆ The cyclonic circulation over eastcentral Arabian Sea off Karnataka coast extending upto 5.8 km above mean sea level persists.
- ◆ A fresh **Western Disturbance** is likely to affect Western Himalayan region from the night of 18th October 2022.
- ◆ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 18th October 2022.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 20th 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 20th-22nd October, 2022

- ◆ Fairly widespread light/moderate rainfall very likely over South peninsular India and Islands. Isolated to scattered light/moderate rainfall very likely over Northeast India, Jharkhand, Odisha and Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad.
- ◆ Dry weather is likely over rest parts of the country.

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## Weather Warning during next 5 days \*

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

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

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

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

**17 Oct (Day 3): ♦ Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

**18 Oct (Day 4): ♦ Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and Lakshadweep.

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

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

**19 Oct (Day 5): ♦ Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and Lakshadweep.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining 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)**  
**15-October-2022**

Met-Sub-Division	15-Oct Today	16Oct Sun	17Oct Mon	18Oct Tue	19Oct Wed
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	SCT	ISOL	ISOL	SCT	SCT
3. Assam & Meghalaya	ISOL	ISOL	SCT	SCT	SCT
4. N. M. M. & T.	SCT	SCT	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	ISOL	ISOL	DRY	DRY	DRY
6. Gangetic West Bengal	ISOL	ISOL	DRY	DRY	DRY
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
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	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	ISOL
16. J & K and Ladakh	DRY	DRY	DRY	ISOL	SCT
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	ISOL	ISOL	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	SCT	FWS	FWS	FWS	FWS
24. Madhya Maharashtra	ISOL	ISOL	ISOL	SCT	SCT
25. Marathawada	ISOL	ISOL	SCT	SCT	SCT
26. Vidharbha	SCT	SCT	SCT	SCT	SCT
27. Chhattisgarh	SCT	SCT	FWS	FWS	FWS
28. Coastal A. P. & Yanam	FWS	SCT	SCT	FWS	FWS
29. Telangana	FWS	SCT	SCT	FWS	FWS
30. Rayalaseema	FWS	SCT	SCT	FWS	FWS
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	FWS	FWS	FWS	FWS	FWS
33. North Interior Karnataka	WS	WS	FWS	FWS	FWS
34. South Interior Karnataka	WS	WS	WS	WS	WS
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	SCT	SCT	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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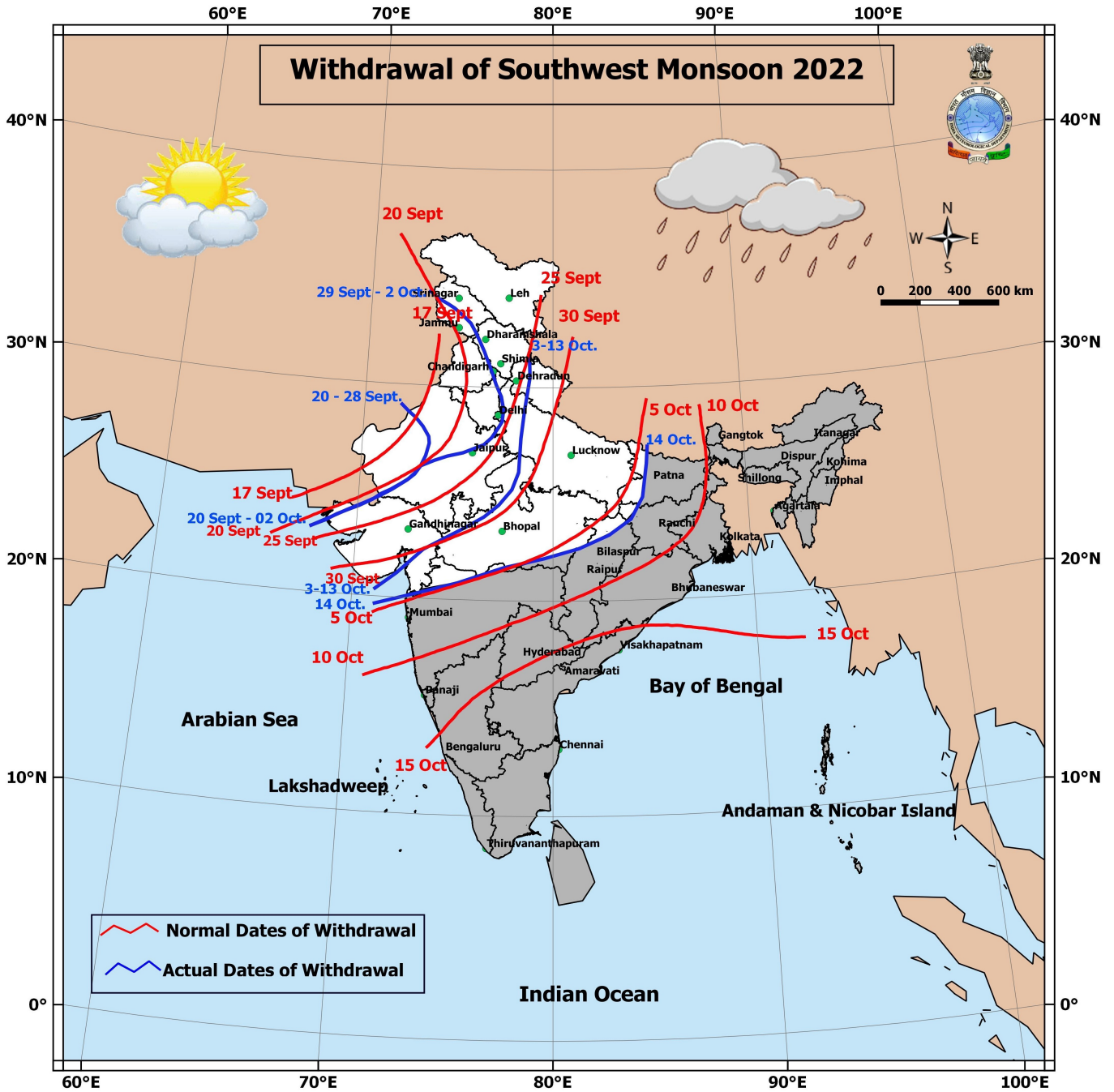
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Fig.1 Withdrawal of Southwest Monsoon 2022



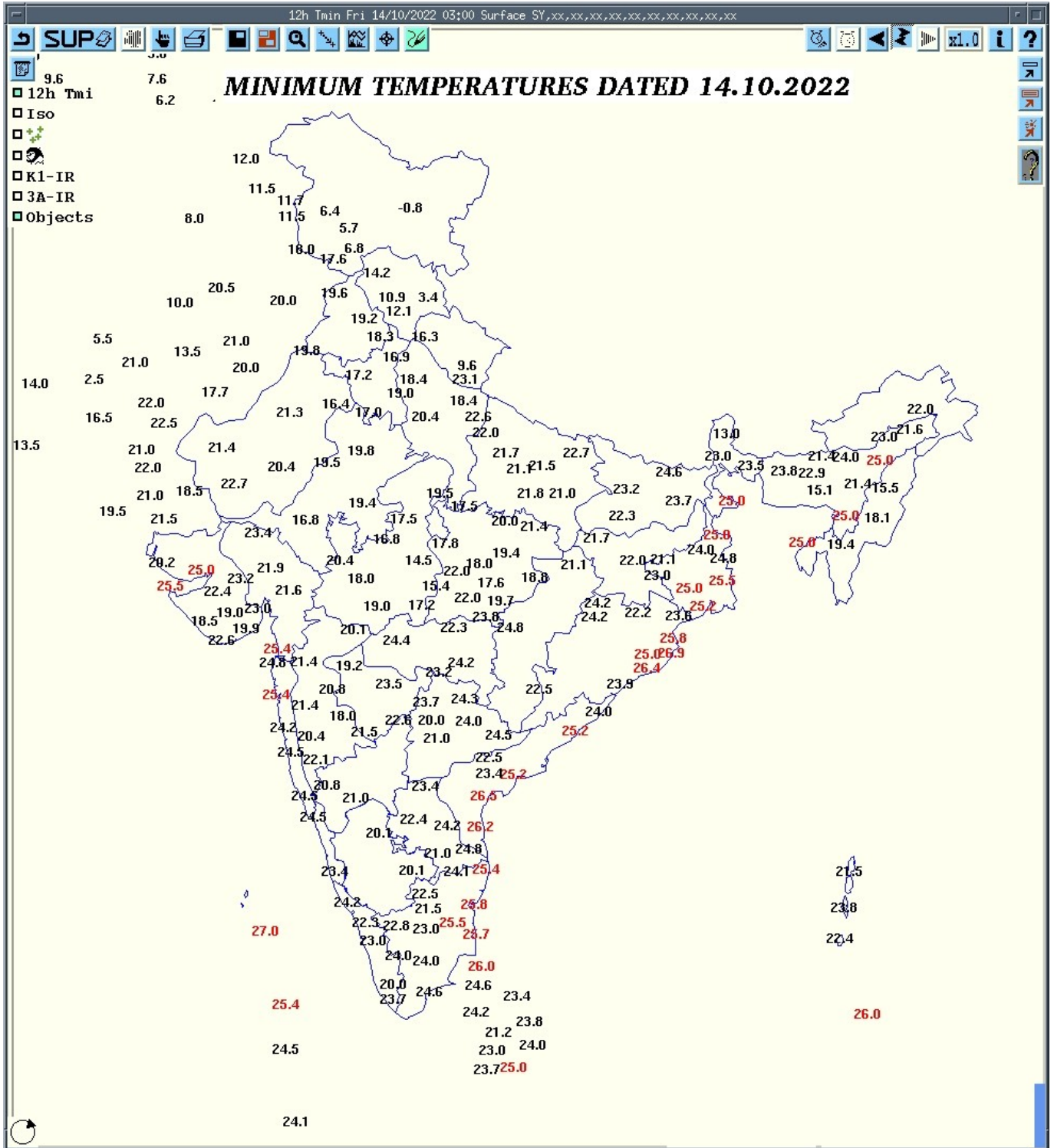
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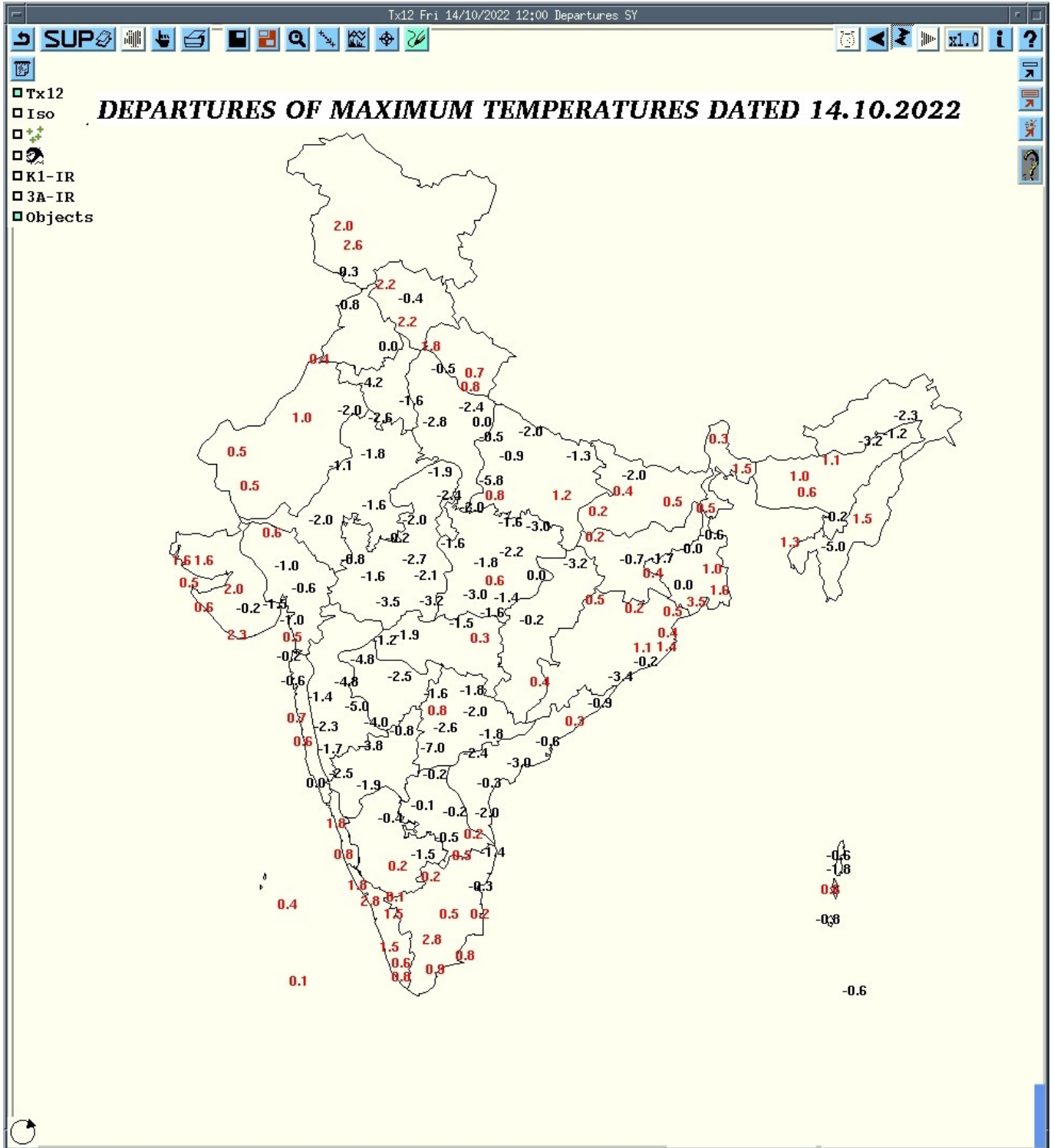
Fig. 4: Minimum Temperature during past 24 hours



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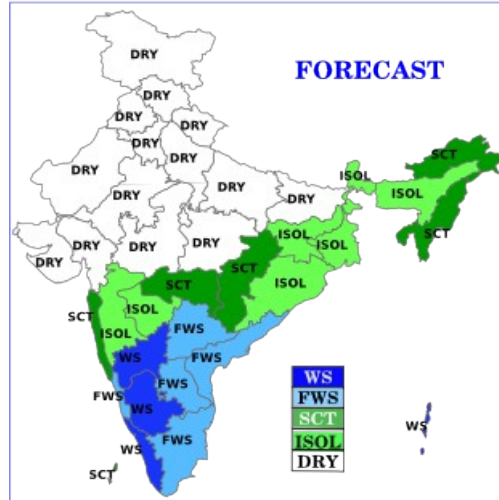
Fig. 5 : Departure from Normal of Maximum Temperatures



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## Saturday 15 October 2022



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

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

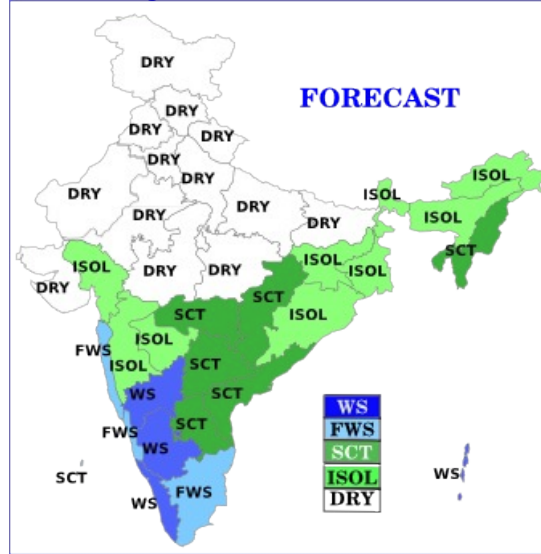
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## Sunday 16 October 2022



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

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

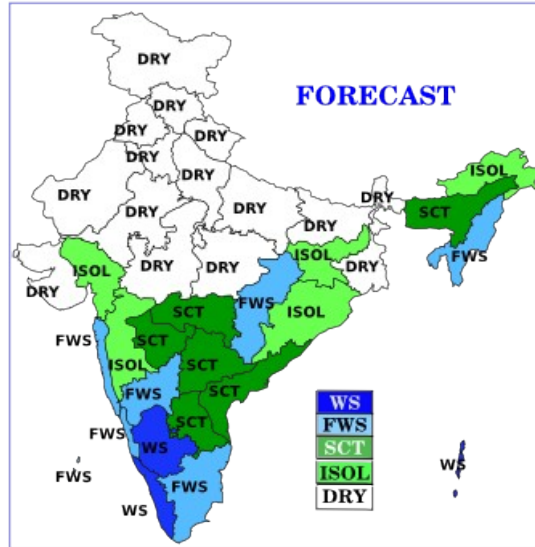
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## Monday 17 October 2022



**17 Oct (Day 3):** ♦ **Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

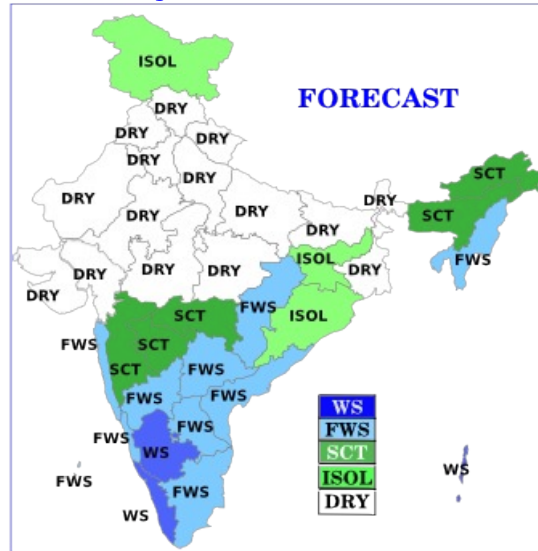
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## Tuesday 18 October 2022



**18 Oct (Day 4): ♦ Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and Lakshadweep.

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

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining southeast Bay of Bengal. Fishermen are advised not to venture into these seas.

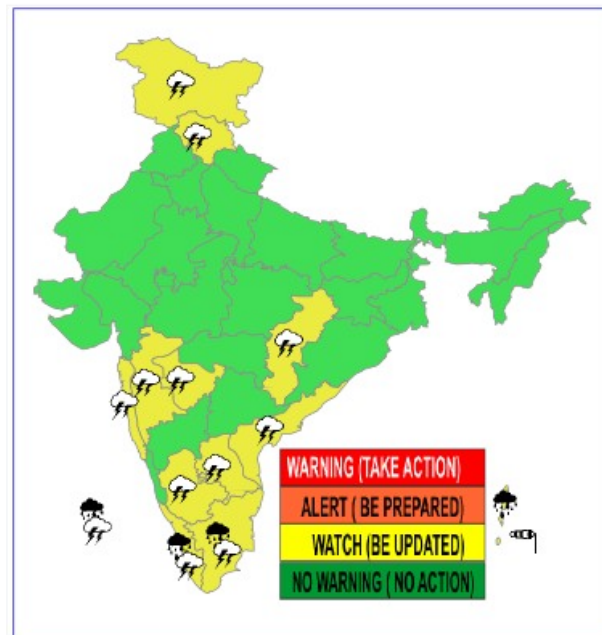
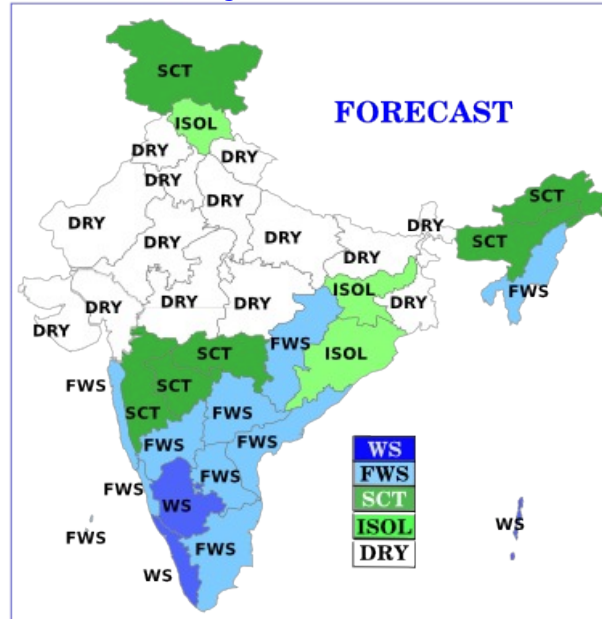
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## Wednesday 19 October 2022



**19 Oct (Day 5): ♦ Heavy to very Heavy rainfall** at isolated places likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and **Heavy rainfall** at isolated places over Andaman & Nicobar Islands and Lakshadweep.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦**Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) likely over Andaman Sea & adjoining 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 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".

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(Copies of the Manual are 1077)

## 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 Strom: Wind speed  $> 220$  kmph ( $> 119$  knots)

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(Created by the Meteorology Dept)