



Tuesday 01 November 2022

**MORNING**

Time of Issue: 0730 hours IST

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

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

◆ Under the influence of northeasterly winds over Bay of Bengal & South Peninsular India; cyclonic circulation over Southwest Bay of Bengal off north Sri Lanka coast and a trough from this cyclonic circulation to southeast Arabian sea in the lower tropospheric levels:

• Scattered/Fairly widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 01st-05th; Coastal Andhra Pradesh & Yanam and Rayalaseema on 01st & 02nd and over South Interior Karnataka on 01st November, 2022.

• **Isolated very heavy rainfall** also very likely over Tamil Nadu, Puducherry & Karaikal on 01st November, 2022.

◆ Under the influence of a Western Disturbance; Light/moderate rainfall at isolated to scattered places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Himachal Pradesh on 01st, 04th & 05th November, 2022.

**Main Weather Observations**

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at isolated places over Kerala & Mahe Tamil Nadu, Puducherry & Karaikal and Lakshadweep.**

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hrs IST of yesterday)(1 cm or more): Tamilnadu, Puducherry & Karaikal: Karaikal-2; Kerala & Mahe: Cochin -1.**

◆ **Thunderstorm/lightning observed (from 0830 hours IST of yesterday to 0530 hrs IST of today): at isolated places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.**

◆ **Minimum Temperature Departures (as on 31-10-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Punjab; at a few places over West Rajasthan; at isolated places over Saurashtra & Kutch, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe. They were **markedly appreciably below normal (-3.1°C to -5.0°C)** at many places over Telangana, North Interior Karnataka; at a few places over East Rajasthan, Konkan & Goa; at isolated places over Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Madhya Maharashtra, Vidarbha; at many places over Coastal Andhra Pradesh & Yanam, Chhattisgarh, Odisha, Coastal Karnataka, Marathwada; at a few places over Gangetic West Bengal, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Yesterday, the lowest minimum temperature of 10.6°C** was reported at **Mandla (East Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 31-10-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over West Rajasthan, Coastal Karnataka, Kerala & Mahe, West Bengal & Sikkim and Tamil Nadu, Puducherry & Karaikal and at isolated places over Konkan & Goa. They were **below normal (-1.6°C to -3.0°C)** at a few places over Madhya Pradesh and Telangana and at isolated places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands and **near normal** over rest parts of the country. **Yesterday, the highest maximum temperature of 37.5°C** was reported at **Bhuj (Saurashtra & Kutch)** over the plains of the country.

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

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### Meteorological Analysis (Based on 0530 hours IST)

- ◆ The cyclonic circulation over Southwest Bay of Bengal off north Sri Lanka coast tilting southwards with height extending upto 3.1 km above mean sea level persists.
- ◆ The trough from above cyclonic circulation over Southwest Bay of Bengal off north Sri Lanka coast to Southeast Arabian Sea across Tamil Nadu & Kerala at 0.9 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 34°N persists.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 06th November, 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.
- ◆ Shallow to moderate fog likely at isolated pockets during early morning hours over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 3 days.

### Weather Outlook for subsequent 2 days During 06th-08th November, 2022

- ◆ Fairly Widespread/Widespread light/moderate rainfall with isolated heavy falls likely over Tamil Nadu and Kerala.
- ◆ Scattered to fairly widespread rainfall/snowfall likely over western Himalayan region and isolated light rainfall over adjoining plains.
- ◆ Dry weather likely over rest parts of the country.

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**Weather Warning during next 5 days \***

**01 Nov (Day 1): ♦ Heavy to very heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

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

**02 Nov (Day 2): ♦ Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

**03 Nov (Day 3): ♦ Heavy rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

**04 Nov (Day 4): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

**05 Nov (Day 5): ♦ Heavy rainfall** likely at isolated places over south Kerala and south Tamil Nadu.

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

**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.**



**Table-1**  
**5 Day Rainfall Forecast (MORNING)**  
**01-November-2022**

Met-Sub-Division	01-Nov Today	02Nov Wed	03Nov Thu	04Nov Fri	05Nov Sat
1. Andaman & Nicobar Islands	SCT	ISOL	ISOL	ISOL	ISOL
2. Arunachal Pradesh	DRY	DRY	DRY	DRY	DRY
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	ISOL	ISOL	DRY
5. S.H. West Bengal & Sikkim	DRY	DRY	ISOL	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	ISOL	ISOL	DRY	DRY	DRY
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	DRY	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	ISOL
16. J & K and Ladakh	ISOL	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	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	ISOL	ISOL	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	SCT
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	FWS	FWS	SCT	SCT	SCT
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	ISOL	SCT	SCT	SCT	SCT
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	SCT	FWS	FWS	FWS	SCT
35. Kerala & Mahe	FWS	FWS	FWS	FWS	WS
36. Lakshadweep	SCT	SCT	SCT	SCT	SCT

**% Station Reporting Rainfall**

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

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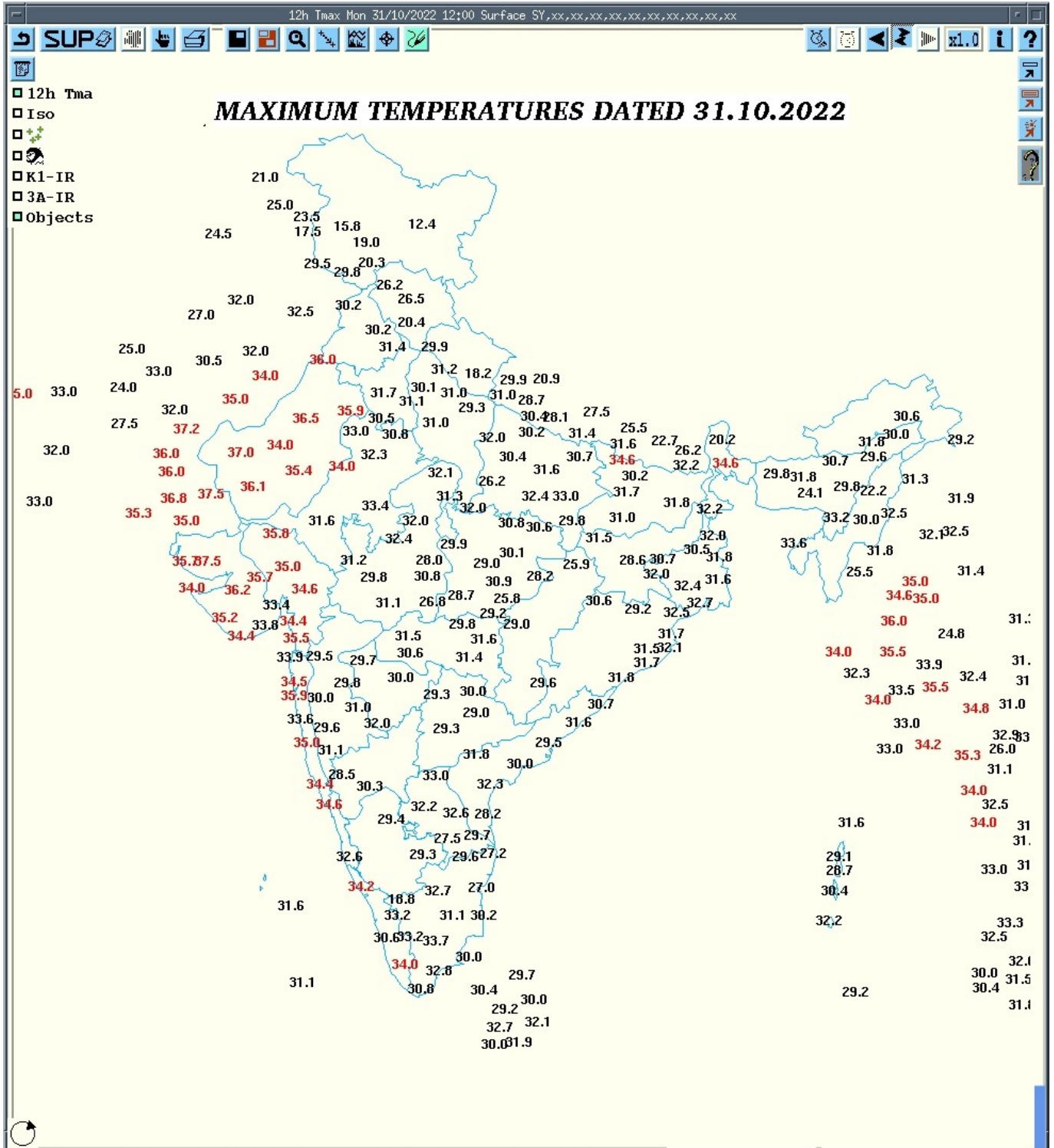
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Fig. 2: Maximum Temperature during past 24 hours



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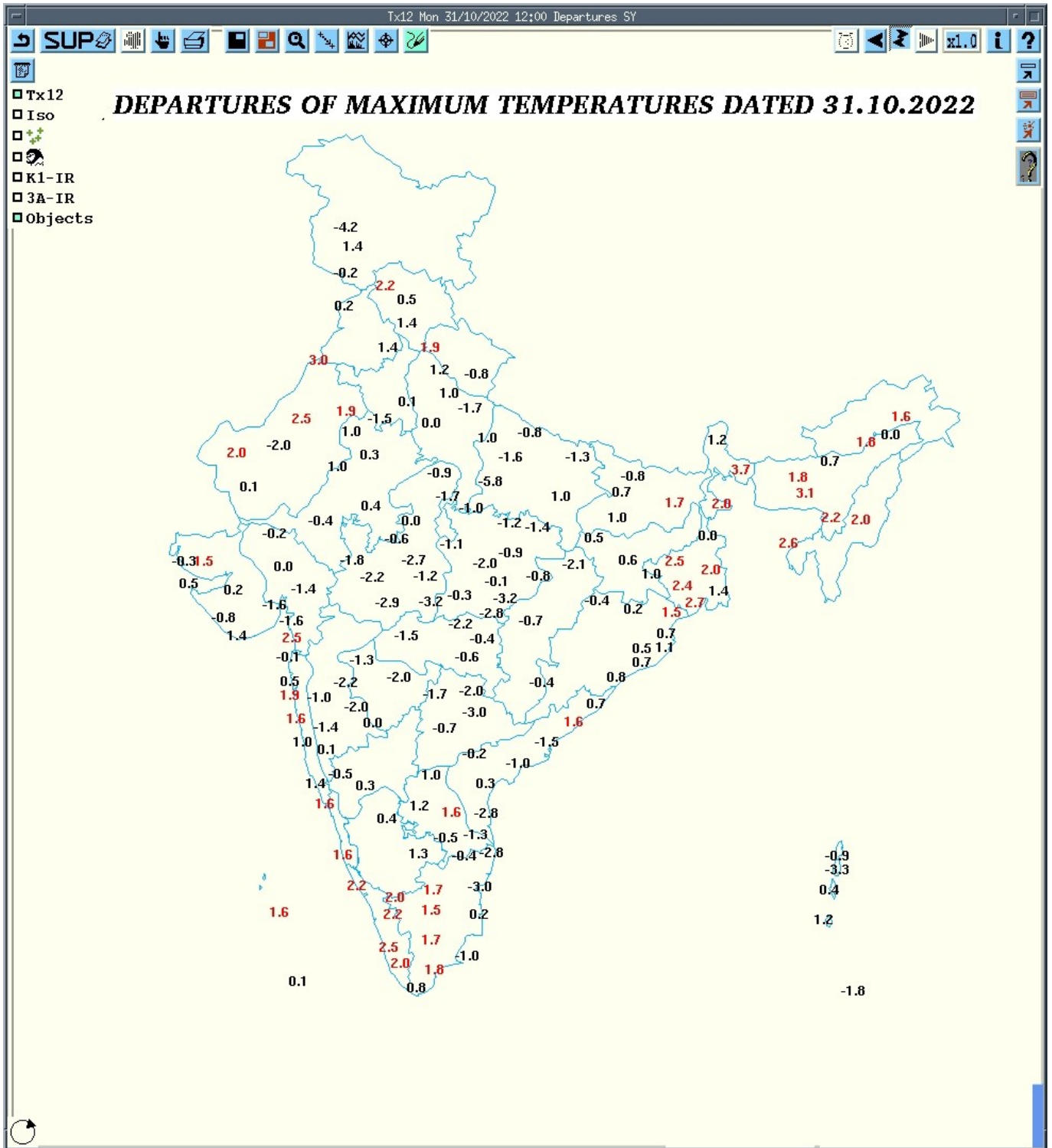
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(Created by the MetInfo app 10/31/2022)





Fig. 4: Departure from Normal of Maximum Temperatures



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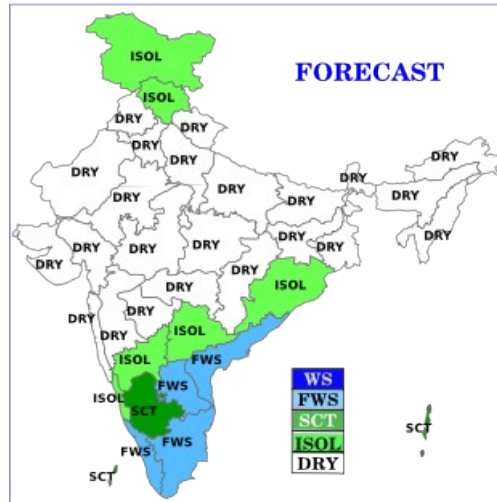
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## Tuesday 01 November 2022



**01 Nov (Day 1): ♦ Heavy to very heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Rayalaseema, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Kerala & Mahe.

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

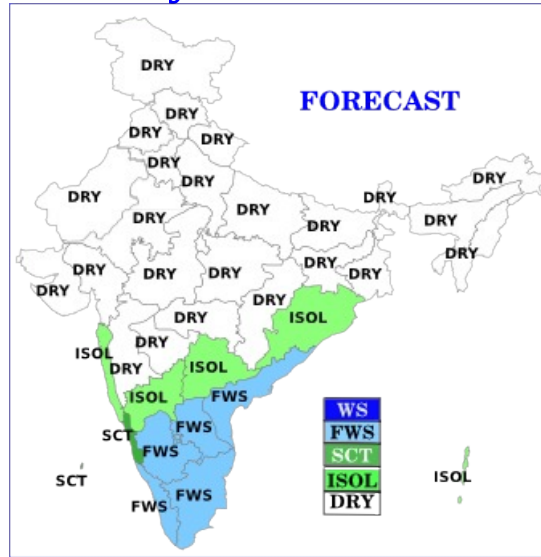
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## Wednesday 02 November 2022



**02 Nov (Day 2): ♦ Heavy rainfall** very likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

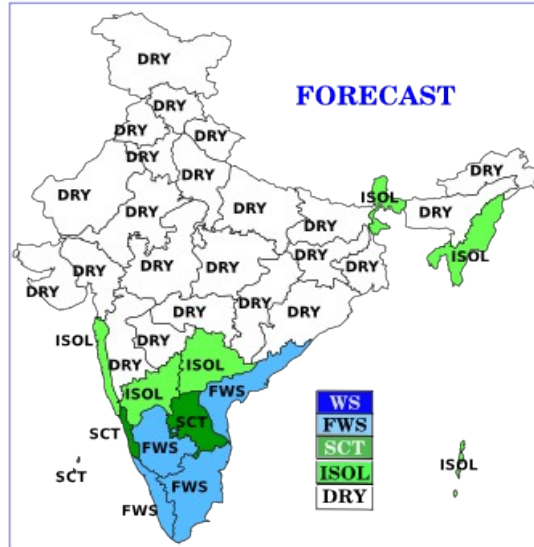
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## Thursday 03 November 2022



**03 Nov (Day 3): ♦ Heavy rainfall** very likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

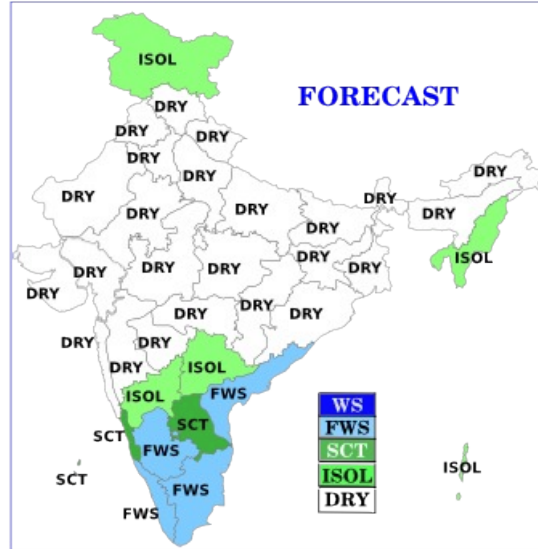
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## Friday 04 November 2022



**04 Nov (Day 4):** ♦ Heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

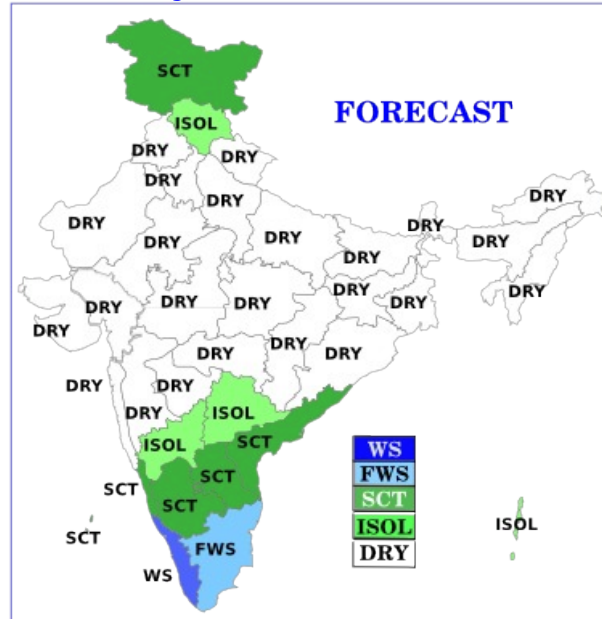
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## Saturday 05 November 2022



**05 Nov (Day 5):** ♦ **Heavy rainfall** likely at isolated places over south Kerala and south Tamil Nadu.  
♦ **Thunderstorm accompanied with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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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

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## 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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