

Wednesday 02 November 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

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

Ø Under the influence of cyclonic circulation over north coastal Tamil Nadu & neighbourhood in lower & middle tropospheric levels 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 to continue over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 02nd – 06th November 2022; Coastal Andhra Pradesh & Yanam and Rayalaseema on 02nd November, 2022.

Ø Under the influence of a fresh Western Disturbance; Isolated to scattered light/moderate rainfall/snowfall likely over Western Himalayan Region during 04th-06th November and isolated rainfall over Punjab on 05th & 06th November, 2022.

Main Weather Observations

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over Jammu & Kashmir and Rayalaseema; at a few places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and at isolated places over Telangana, South Interior Karnataka and Lakshadweep.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hrs IST of yesterday)(1 cm or more):** Numgambakkam-6; Minambakkam-5; Nagappattinam-3; Pondicherry and Aminidivi-2 each; Karaikal, Bangalore (A/P), Tirupathi, Nellore, Kavali and Rentachintala-1 each.

◆ **Thunderstorm/lightning observed (from 0830 hours IST of yesterday to 0530 hrs IST of today):** NIL.

◆ **Minimum Temperature Departures (as on 01-11-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Uttarakhand; at a few places over Jammu, Kashmir & Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Punjab, West Rajasthan and Bihar and at isolated places over Rayalaseema and Tamil Nadu, Puducherry & Karaikal. They were **appreciably below normal (-3.1°C to -5.0°C)** at a few places over North Interior Karnataka and at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Madhya Maharashtra and Marathwada and **near normal** over rest parts of the country. **Yesterday, the lowest minimum temperature of 11.0°C** was reported at **Sikar (East Rajasthan)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 01-11-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha and Coastal Karnataka; at a few places over Arunachal Pradesh and at isolated places over Rajasthan, Himachal Pradesh and Haryana, Chandigarh & Delhi. They were markedly below **normal (-5.1°C or less)** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema and Tamil Nadu, Puducherry & Karaikal; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over West Madhya Pradesh and Telangana; **below normal (-1.6°C to -3.0°C)** at many places over Jammu, Kashmir & Ladakh, Gilgit, Baltistan, Muzaffarabad, Madhya Maharashtra and Marathwada and at isolated places over Gujarat State and East Madhya Pradesh and **near normal** over rest parts of the country. **Yesterday, the highest maximum temperature of 37.3°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 north Sri Lanka & neighbourhood now lies over coastal Tamil Nadu & neighbourhood and extends upto 7.6 km above mean sea level.
- ◆ The trough now runs from above cyclonic circulation over coastal Tamil Nadu & neighbourhood to Southeast Arabian Sea across interior Tamil Nadu & Kerala extending upto 1.5 km above mean sea level.
- ◆ The Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 75°E to the north of Lat. 26°N.
- ◆ A fresh Western Disturbance is very likely to affect Western Himalayan Region from 04th November, 2022.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 07th 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 2 days.

### Weather Outlook for subsequent 2 days During 07th-09th November, 2022

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



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

**02 Nov (Day 1): ♦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.

♦ **Squally weather** speed reaching 40-45 kmph gusting to 50 kmph very likely along & off Tamil Nadu-north Sri Lanka coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.

**03 Nov (Day 2): ♦ 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 3): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

**05 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 Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

**06 Nov (Day 5): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** likely at isolated places over 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)**  
**02-November-2022**

Met-Sub-Division	02-Nov Today	03Nov Thu	04Nov Fri	05Nov Sat	06Nov Sun
1. Andaman & Nicobar Islands	ISOL	ISOL	SCT	SCT	SCT
2. Arunachal Pradesh	DRY	DRY	ISOL	ISOL	ISOL
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	ISOL	ISOL	ISOL	ISOL
5. S.H. West Bengal & Sikkim	DRY	ISOL	DRY	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	ISOL	ISOL
15. Himachal Pradesh	ISOL	DRY	DRY	ISOL	ISOL
16. J & K and Ladakh	ISOL	DRY	ISOL	SCT	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	ISOL	ISOL	DRY	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	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	DRY	DRY
30. Rayalaseema	FWS	SCT	SCT	SCT	SCT
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	SCT	SCT	SCT	SCT	SCT
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	FWS	SCT	SCT	SCT
35. Kerala & Mahe	FWS	FWS	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		

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

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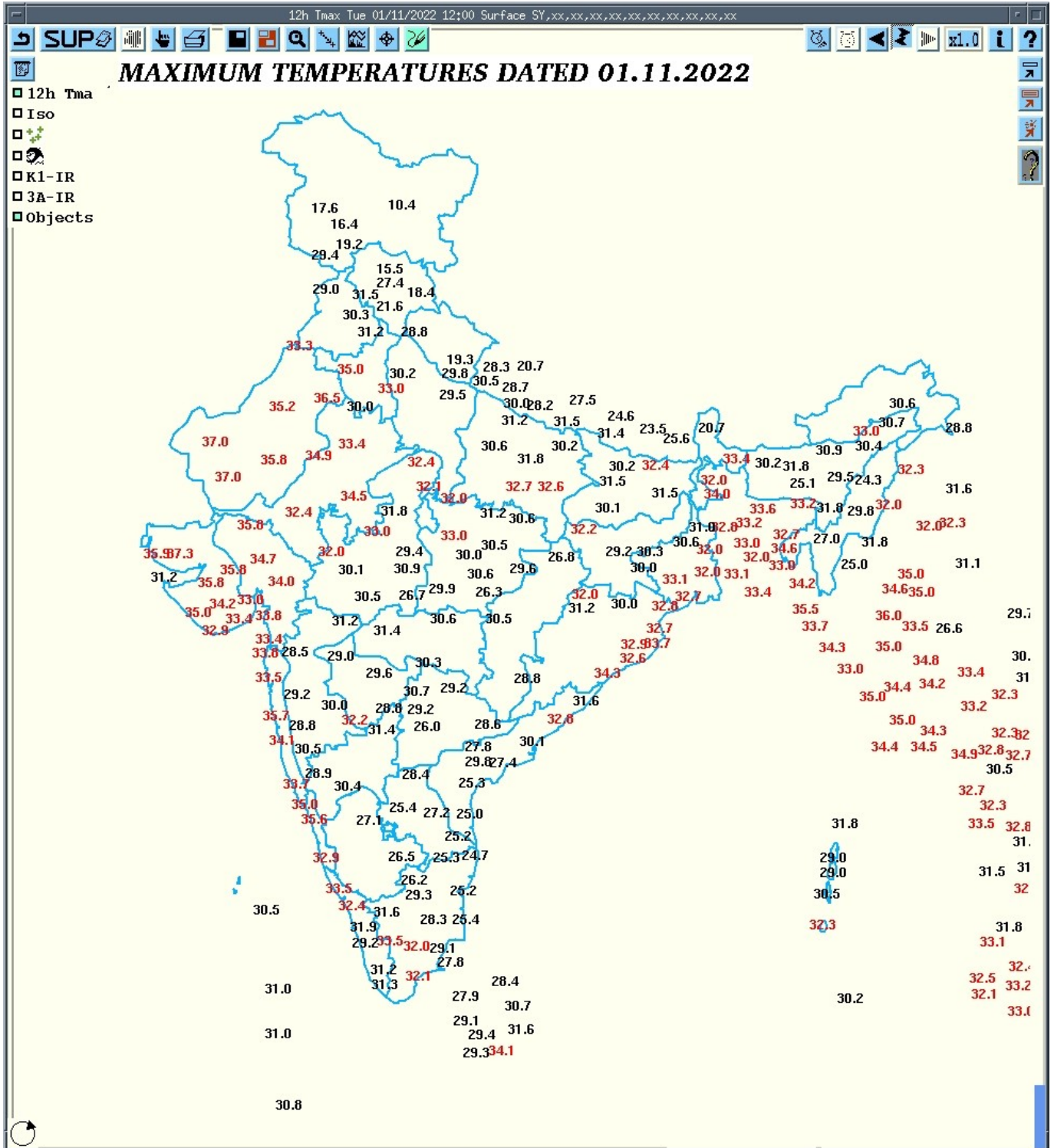
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Fig. 2: Maximum Temperature during past 24 hours



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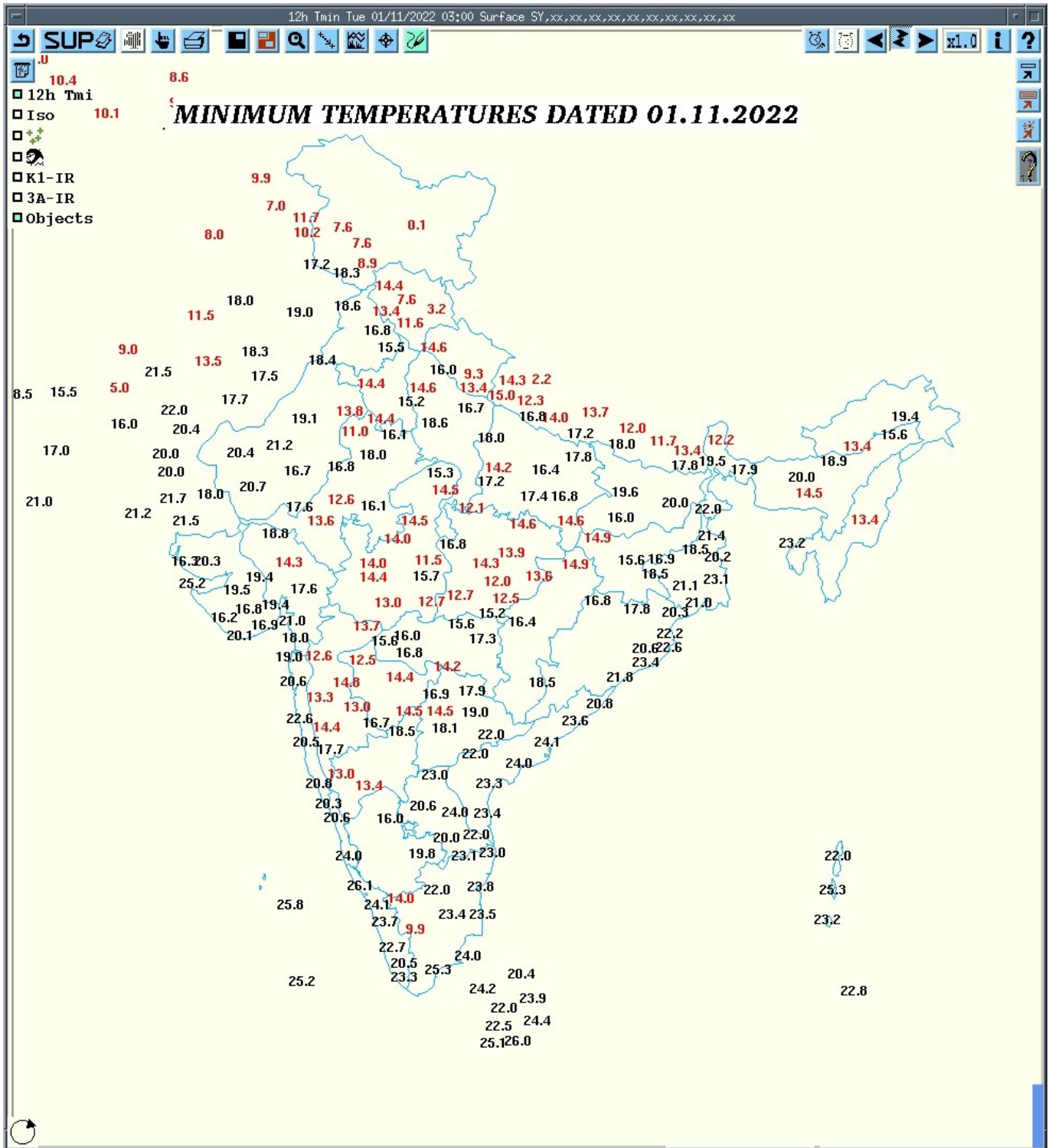
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Fig. 3: Minimum Temperature during past 24 hours



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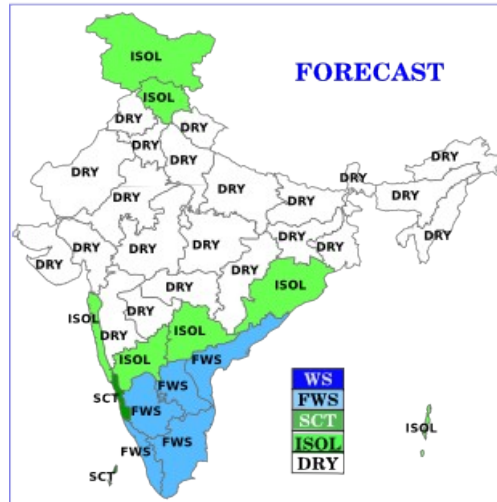
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## Wednesday 02 November 2022



**02 Nov (Day 1): ♦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.

♦ **Squally weather** speed reaching 40-45 kmph gusting to 50 kmph very likely along & off Tamil Nadu-north Sri Lanka coasts and Gulf of Mannar. Fishermen are advised not to venture into these areas.

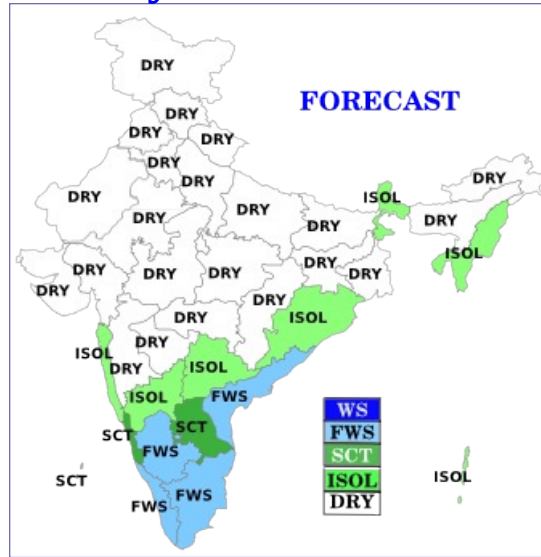
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## Thursday 03 November 2022



**03 Nov (Day 2): ♦ 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.

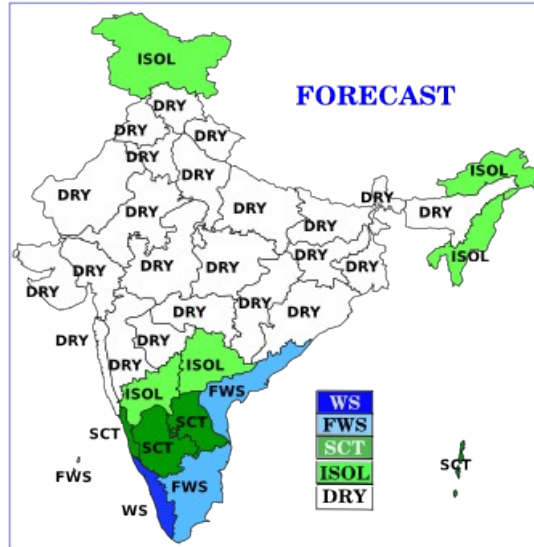
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## Friday 04 November 2022



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

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

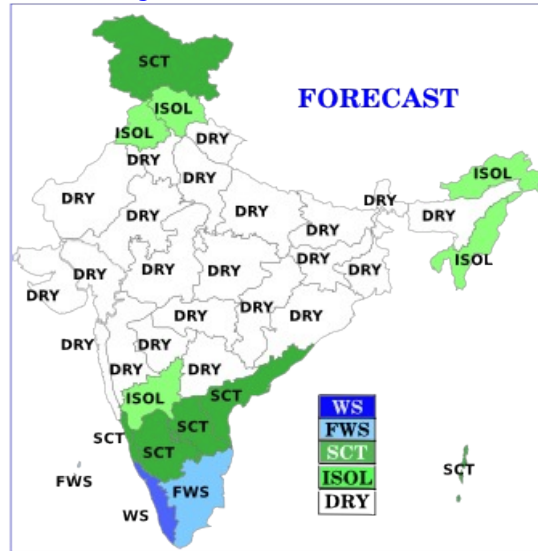
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## Saturday 05 November 2022



**05 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 Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

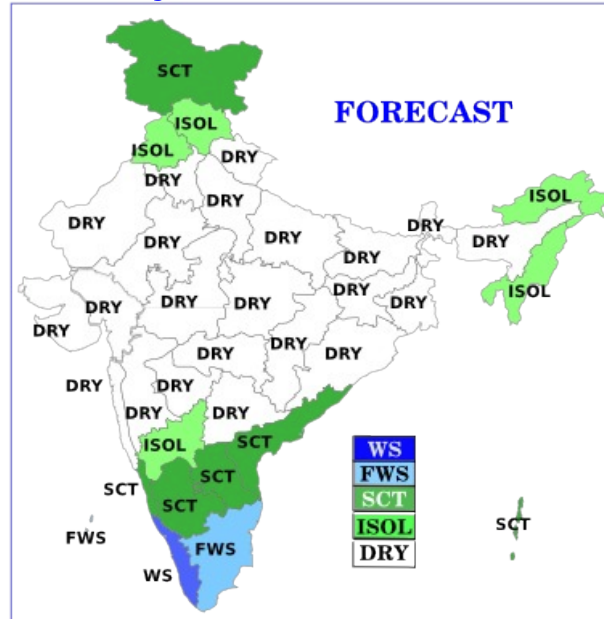
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## Sunday 06 November 2022



**06 Nov (Day 5): ♦ Heavy rainfall** likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

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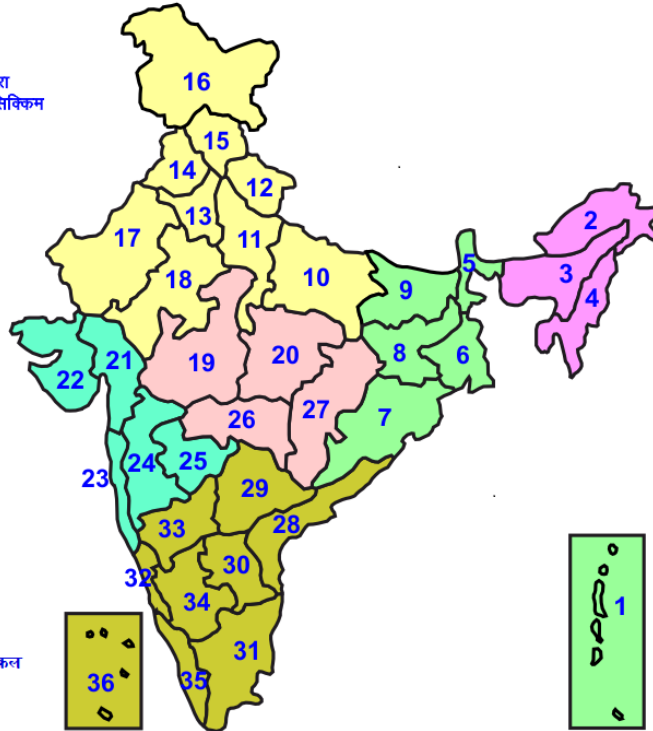
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## LEGENDS

- 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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