



Monday 31 October 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather systems, rainfall/thunderstorm Forecast & Warnings:

- ◆ Under the influence of setting in of northeasterly winds over Bay of Bengal and South Peninsular India and a cyclonic circulation over Southwest Bay of Bengal off south Sri Lanka coast 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 31st October – 04th November; Coastal Andhra Pradesh & Yanam during 31st October – 02nd November; South Interior Karnataka on 03rd & 04th November and Rayalaseema on 01st & 02nd November, 2022. Isolated very heavy rainfall also very likely over Tamil Nadu, Puducherry & Karaikal on 31st October & 01st November and Coastal Andhra Pradesh & Yanam on 31st October, 2022.
- ◆ Under the influence of a fresh Western Disturbance;
⇒ Light/moderate rainfall at isolated places likely over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad during 31st October to 02nd November and Himachal Pradesh on 01st November, 2022.

Main Weather Observations

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hrs IST of yesterday):** at a few places over Andaman & Nicobar Islands and Kerala & Mahe and at isolated places over Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST of 1730 hrs IST of yesterday) (1 cm or more):** K. Paramathy-2; Cochin(Airport) and Nancowry-1 each.
- ◆ **Thunderstorm/lightning observed (from 0830 hours IST of yesterday to 0530 hrs IST of today):** at isolated places over Kerala & Mahe.
- ◆ **Minimum Temperature Departures (as on 30-10-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Punjab; at a few places over West Rajasthan and Kerala & Mahe; at isolated places over Uttar Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Rayalaseema and Lakshadweep. They were **markedly below normal (-5.1°C or less)** at a few places over North Interior Karnataka; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Telangana; at isolated places over East Rajasthan, East Madhya Pradesh, Odisha, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam; **below normal (-1.6°C to -3.0°C)** at most places over Marathwada; at many places over Gangetic West Bengal and Jharkhand; at a few places over Chhattisgarh, Konkan & Goa and Vidarbha; at isolated places over West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal and **near normal** over rest parts of the country. Yesterday, the **lowest minimum temperature** of 11.0°C was reported at **Sikar (East Rajasthan) & Mandla (East Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 30-10-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at a few places over Himachal Pradesh, West Rajasthan, West Bengal & Sikkim, Gujarat Region, Rayalaseema and Kerala & Mahe and at isolated places over Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at a few places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Madhya Pradesh and Andaman & Nicobar Islands; at isolated places over Telangana 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 Southwest Bay of Bengal off south Sri Lanka coast extending upto 3.6 km above mean sea level persists.
- ◆ A fresh Western Disturbance as a trough in westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 63°E to the north of Lat. 34°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 05th 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 Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days.

Weather Outlook for subsequent 2 days During 05th-07th November, 2022

- ◆ Fairly Widespread/Widespread light/moderate rainfall with isolated heavy falls likely over Tamil Nadu, Coastal Andhra Pradesh, Rayalaseema, Coastal & South Interior Karnataka and Kerala.
- ◆ Isolated to scattered rainfall/snowfall likely over western Himalayan region and isolated to scattered rainfall over Nagaland, Manipur, Mizoram & Tripura and Islands.
- ◆ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

31 Oct (Day 1): ♦ Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Kerala & Mahe.

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

01 Nov (Day 2): ♦ 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 Kerala & Mahe.

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

02 Nov (Day 3): ♦ Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

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

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

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

♦ **Thunderstorm accompanied with lightning** likely at isolated places over Rayalaseema, Kerala & Mahe, South Interior Karnataka 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)
31-October-2022

Met-Sub-Division	31-Oct Today	01Nov Tue	02Nov Wed	03Nov Thu	04Nov Fri
1. Andaman & Nicobar Islands	FWS	SCT	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	ISOL
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	ISOL	ISOL	ISOL	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	DRY	ISOL	DRY	DRY	DRY
16. J & K and Ladakh	ISOL	ISOL	ISOL	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	DRY	DRY	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	ISOL	ISOL	DRY	DRY
28. Coastal A. P. & Yanam	SCT	FWS	FWS	FWS	FWS
29. Telangana	DRY	ISOL	SCT	ISOL	ISOL
30. Rayalaseema	ISOL	FWS	FWS	SCT	SCT
31. T.N.,Puducherry & Karaikal	FWS	FWS	FWS	FWS	FWS
32. Coastal Karnataka	ISOL	ISOL	SCT	FWS	FWS
33. North Interior Karnataka	DRY	DRY	ISOL	ISOL	ISOL
34. South Interior Karnataka	ISOL	SCT	SCT	FWS	FWS
35. Kerala & Mahe	FWS	FWS	FWS	FWS	FWS
36. Lakshadweep	SCT	SCT	SCT	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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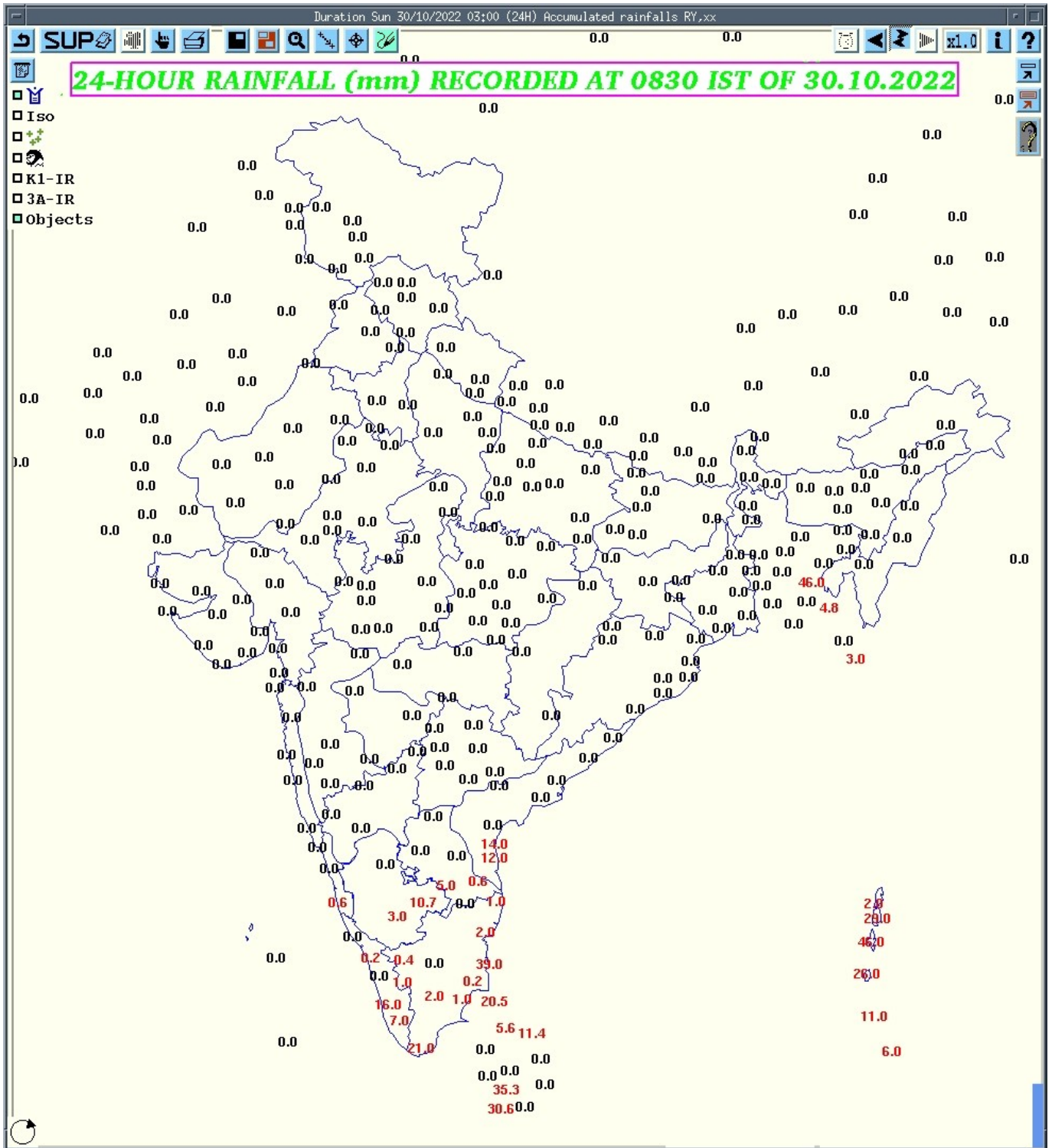
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



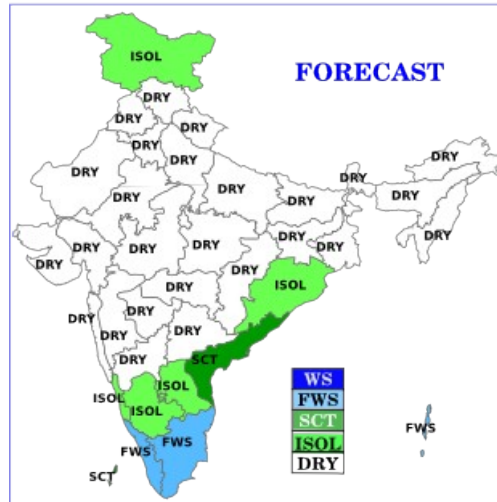
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(As per the Met Circular 1977)

Monday 31 October 2022



31 Oct (Day 1): ♦ Heavy to very heavy rainfall very likely at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and **heavy rainfall** at isolated places over Kerala & Mahe.

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

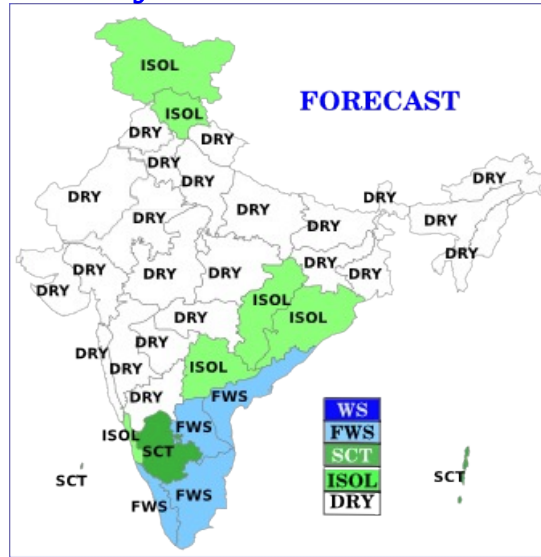
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Tuesday 01 November 2022



01 Nov (Day 2): ♦ 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 Kerala & Mahe.

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

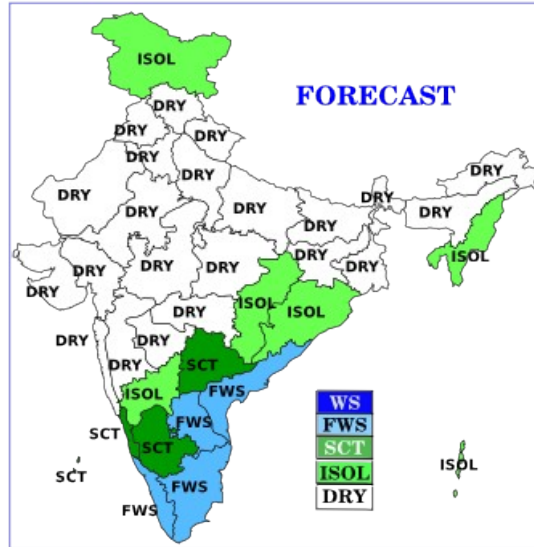
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Wednesday 02 November 2022



02 Nov (Day 3): ♦ Heavy rainfall likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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

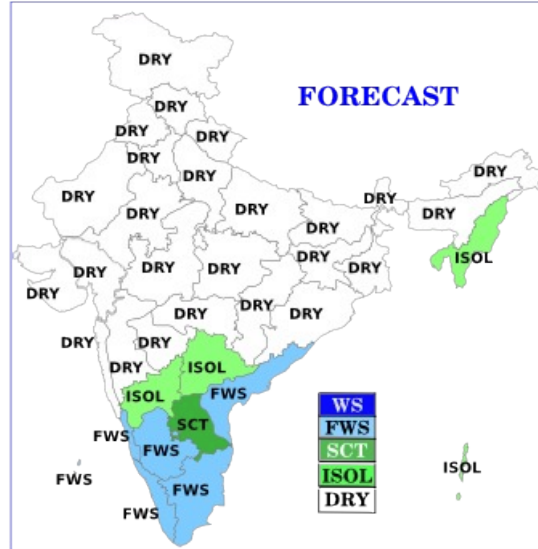
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Thursday 03 November 2022



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

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

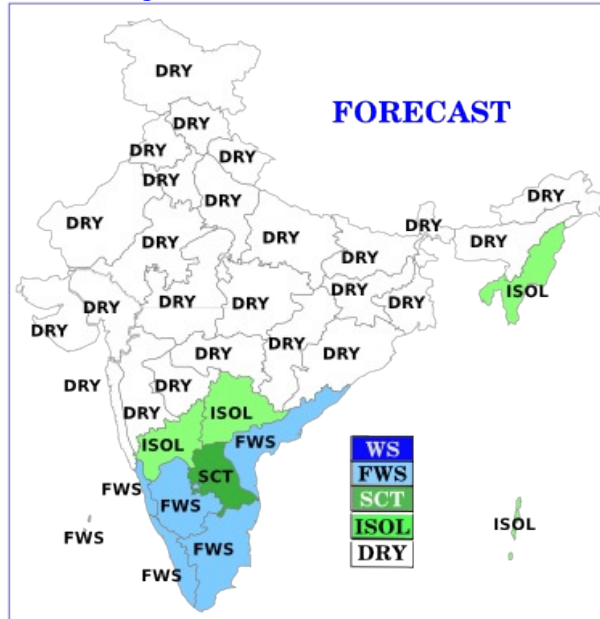
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Friday 04 November 2022



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

♦ Thunderstorm accompanied with lightning likely at isolated places over Rayalaseema, Kerala & Mahe, South Interior Karnataka 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

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

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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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