

Sunday 29 November 2020

MID-DAY

Time of Issue: 1245 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ♦ A **Well Marked Low Pressure Area** lies over Southeast Bay of Bengal & adjoining areas of South Andaman Sea and Equatorial Indian Ocean with associated cyclonic circulation extending upto mid tropospheric levels. It is very likely to concentrate into a **Depression** during next 36 hours and likely to intensify further thereafter. It is likely to move west-northwestwards and reach near south Tamil Nadu coast around 02nd December, 2020.
- ♦ Under the influence of the above system;
  - i) Scattered to Widespread rainfall activity very likely over Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, south coastal Andhra Pradesh and south Rayalaseema during 01st-03rd December, 2020.
  - ii) Isolated heavy to very heavy rainfall with moderate thunderstorm & lightning very likely over Tamil Nadu, Puducherry & Karaikal during 01st-03rd December and isolated extremely rainfall likely over south Tamilnadu and south Kerala on 02nd December 2020. Isolated heavy falls with moderate thunderstorm & lightning also very likely over south Coastal Andhra Pradesh, Rayalseema and Lakshadweep area during 02nd-03rd December, 2020.
- ♦ Fishermen are advised not to venture into Southeast Bay of Bengal & adjoining South Andaman Sea on 29th November; over central parts of South Bay of Bengal on 30th November; over Southwest Bay of Bengal, Gulf of Mannar, Comorin area, along & off Tamilnadu-Kerala coasts on 01st & 02nd December and over Lakshadweep-Maldives areas and Southeast Arabian Sea on 02nd & 03rd December, 2020.

Main Weather Observations

- ♦ **Rain/Thundershowers** observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): **at many places** over Andaman & Nicobar Islands; **at a few places** over Coastal Andhra Pradesh, Rayalaseema, North Interior Karnataka and Tamilnadu and at **isolated places** over East Madhya Pradesh, Madhya Maharashtra, Telangana and Kerala & Mahe.
- ♦ **Rainfall** recorded (from 0830 hrs IST of yesterday to 0830 hours IST of today) (2 cm or more): Hut Bay-12; Kandukur-9; Kavali-6; Car Nicobar, Konni and Kurudamannil-4 each; Veligandla and Seetharamapuram-3 each; Venkatagiri, Vinjamur, Kozha, Cochin, Coonoor, Nancowry and Kottayam-2 each.
- ♦ **Heavy to very heavy rainfall** recorded at isolated places over Andaman & Nicobar Islands and **heavy rainfall** at isolated places over Coastal Andhra Pradesh.
- ♦ **Thunderstorm with lightning** observed (0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ♦ **Maximum Temperature Departures as on 28-11-2020:** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at **many places** over Uttarakhand; **at isolated places** over Assam & Meghalaya and Odisha; **above normal (1.6°C to 3.0°C)** at **many places** over Jharkhand, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal & Sikkim; at **a few places** over Himachal Pradesh and Kerala & Mahe; at **isolated places** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Gangetic West Bengal, Konkan & Goa, Vidarbha, East Madhya Pradesh and Tamilnadu, Puducherry & Karaikal. They were **markedly below (-5.1 or less)** at **isolated places** over Madhya Maharashtra and North Interior Karnataka; **appreciably below normal (-3.1°C to -5.0°C)** at **a few places** over Coastal Andhra Pradesh & Yanam; at **isolated places** over Andaman & Nicobar Islands and **below normal (-1.6°C to -3.0°C)** at **many places** over Telangana and Rayalaseema; at **a few places** over West Madhya Pradesh and Gujarat State; at **isolated places** over Haryana, Chandigarh & Delhi, Rajasthan and Bihar and **near normal** over rest parts of the country. **Yesterday, The highest maximum temperature of 35.1°C** was reported at Kozhikode (Kerala).
- ♦ **Minimum Temperature Departures as on 29-11-2020:** Minimum temperatures are **markedly above normal (5.1°C and above)** at **a few places** over Madhya Maharashtra; **appreciably above normal (3.1°C to 5.0°C)** at **a few places** over Coastal Karnataka, Marathwada and Telangana; at **isolated places** over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Konkan & Goa, Saurashtra & Kutch and Sub-Himalayan West Bengal & Sikkim; **above normal (1.6°C to 3.0°C)** at most places over Rayalaseema; at **many places** over Interior Karnataka; at **a few places** over Chhattisgarh and Tamil Nadu, Puducherry & Karaikal; at **isolated places** over Madhya Pradesh, Gujarat region, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Vidarbha and Assam & Meghalaya. They are **appreciably below normal (-3.1°C to -5.0°C)** at **a few places** over Haryana, Chandigarh & Delhi and East Rajasthan; **below normal (-1.6°C to -3.0°C)** at **isolated places** over West Rajasthan and Bihar and **near normal** over rest parts of the country. The **lowest minimum temperature of 4.1°C** reported at Churu (West Rajasthan) over the plains of the country.

\* 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

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### Meteorological Analysis (Based on 0830 hours IST)

- ♦ The **Low Pressure Area** over South Andaman Sea and adjoining areas of Southeast Bay of Bengal & Equatorial Indian Ocean now seen as a **Well Marked Low Pressure Area** over Southeast Bay of Bengal & adjoining areas of South Andaman Sea and Equatorial Indian Ocean with associated cyclonic circulation extending upto mid tropospheric levels. It is very likely to concentrate into a **Depression** during next 36 hours and likely to intensify further thereafter. It is likely to move west-northwestwards and reach near south Tamil Nadu coast around 02nd December, 2020.
- ♦ The Western Disturbance as a trough in mid tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 62°E to the north of Lat. 30°N persists.
- ♦ A Cyclonic Circulation lies over Haryana & adjoining West Uttar Pradesh and extends upto 1.5 km above mean sea level.
- ♦ A Cyclonic Circulation lies over Eastcentral Arabian Sea off Maharashtra coast between 1.5 & 2.1 km above mean sea level.
- ♦ The trough in mid tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 90°E to the north of Lat. 30°N has moved away northeastwards.
- ♦ The Cyclonic Circulation over Northeast Bangladesh & neighbourhood extending upto 1.5 km above mean sea level has become less marked.
- ♦ The cyclonic circulation over Sub-Himalayan West Bengal & Sikkim at 3.1 km above mean sea level has become less marked.

### Weather Forecast for next 5 days \* upto 0830 hours IST of 04th December, 2020

- ♦ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ♦ No significant change in minimum temperatures over most parts of the country during next 3-4 days.
- ♦ Shallow to moderate fog in isolated pockets very likely over Assam & Meghalaya during next 3 days and over Tripura on 01st December, 2020.

### Weather Outlook for subsequent 2 days from 04th December to 06th December, 2020.

- ♦ Light to moderate rainfall at most places very likely over south peninsular India and Islands. Isolated heavy falls also likely over Andaman & Nicobar Islands.
- ♦ Weather likely to be dry over the remaining parts of the country.
- ♦ The remnant of the Low Pressure system of Bay of Bengal is likely to emerge into Southeast Arabian Sea after crossing through extreme south peninsula on 03rd December. It is likely to intensify thereafter over Arabian Sea and move west-northwestwards.

### Weather Warning during next 5 days \*

**29 November (Day 1): ♦ Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning** at isolated places very likely over Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.

♦ **Dense fog** very likely at isolated places over Tripura.

♦ **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Bay of Bengal and South Andaman Sea. Fishermen are advised not to venture into these areas.

**30 November (Day 2): ♦ Dense fog** very likely at isolated places over Tripura.

♦ **Squally Weather** (wind speed reaching 45-55 kmph gusting to 65 kmph) very likely over central parts of South Bay of Bengal. Fishermen are advised not to venture into these areas.

**01 December (Day 3): ♦ Heavy to very heavy rainfall** very likely at isolated places over South Tamilnadu; **heavy rainfall** at isolated places over north Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm with lightning** very likely at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely over Southwest Bay of Bengal, Comorin Area, Gulf of Mannar and Tamilnadu-Kerala coasts. Fishermen are advised not to venture into these areas.

**02 December (Day 4): ♦ Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places likely over south Tamil Nadu and south Kerala; **heavy to very heavy rainfall** at isolated places over north Tamilnadu, Puducherry & Karaikal and north Kerala & Mahe; **heavy rainfall** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema and Lakshadweep.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 60-70 kmph gusting to 80 kmph) likely along & off Kerala coast, Comorin Area and Gulf of Mannar and along & off south Tamilnadu coast and (wind speed reaching 50-60 kmph gusting to 70 kmph) over Southeast Arabian Sea and Lakshadweep-Maldives areas. Fishermen are advised not to venture into these areas.

**03 December (Day 5): ♦ Heavy to very heavy rainfall** at isolated places over south Tamilnadu, south Kerala and Lakshadweep; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalseema and north Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema, South Interior Karnataka, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 50-60 kmph gusting to 70 kmph) likely over Southeast Arabian Sea along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.

**Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC website for district wise warning.**



Table-1

## 5 Day Rainfall Forecast (MID-DAY)

29-November-2020

Met-Sub-Division	29-Nov Today	30Nov Mon	01Dec Tue	02Dec Wed	03Dec Thu
1. Andaman & Nicobar Islands	FWS	FWS	FWS	FWS	WS
2. Arunachal Pradesh	DRY	DRY	DRY	ISOL	ISOL
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	DRY	ISOL
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	DRY	DRY	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	DRY
16. J & K and Ladakh	ISOL	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	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	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	ISOL	DRY	ISOL	SCT	SCT
29. Telangana	DRY	DRY	DRY	DRY	ISOL
30. Rayalaseema	SCT	DRY	DRY	SCT	SCT
31. T.N., Puducherry & Karaikal	ISOL	ISOL	FWS	WS	FWS
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	DRY	DRY	DRY	ISOL	SCT
35. Kerala & Mahe	ISOL	ISOL	SCT	WS	FWS
36. Lakshadweep	SCT	SCT	SCT	WS	WS

### % 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		

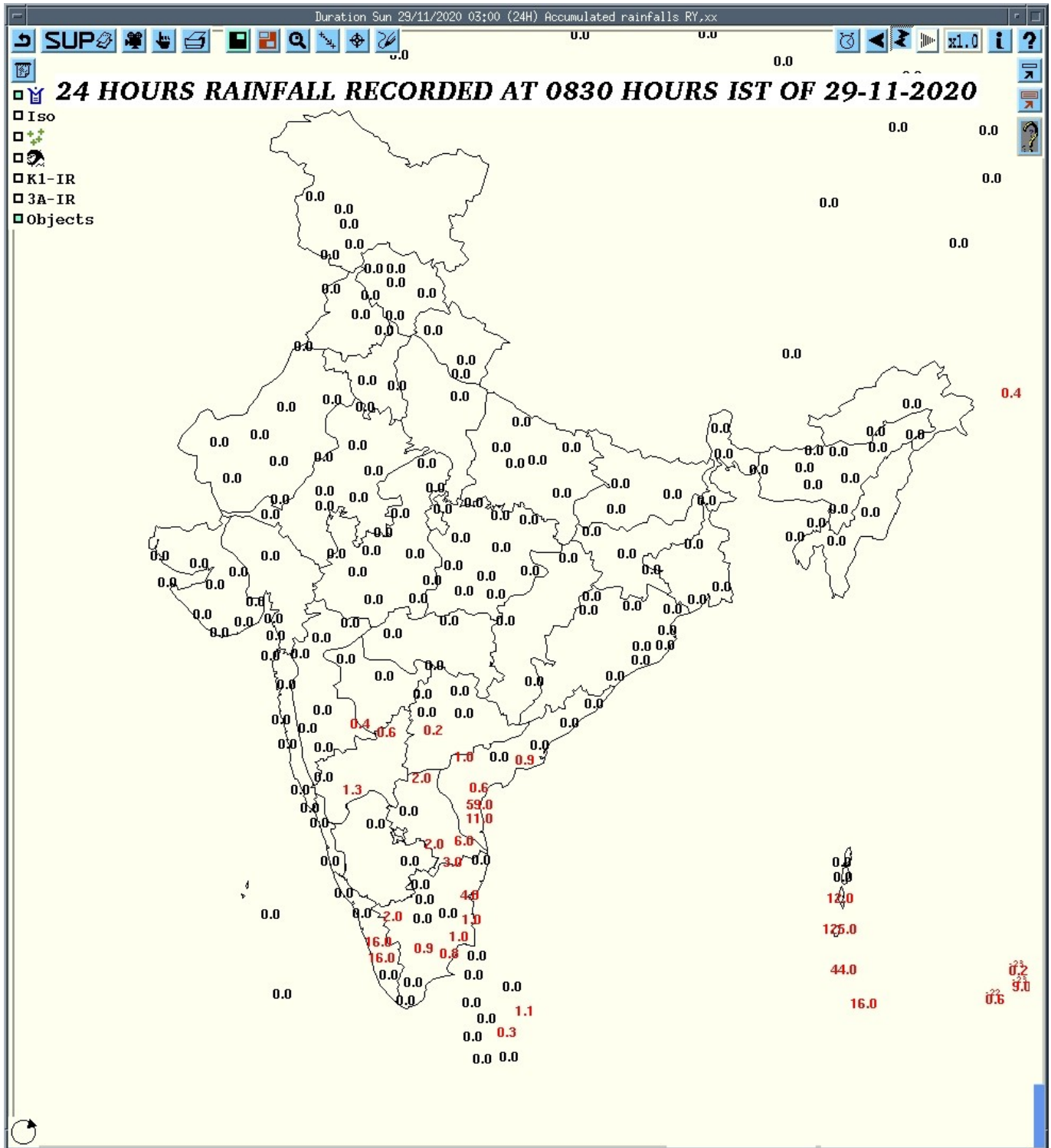
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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Fig. 2: Maximum Temperature during past 24 hours

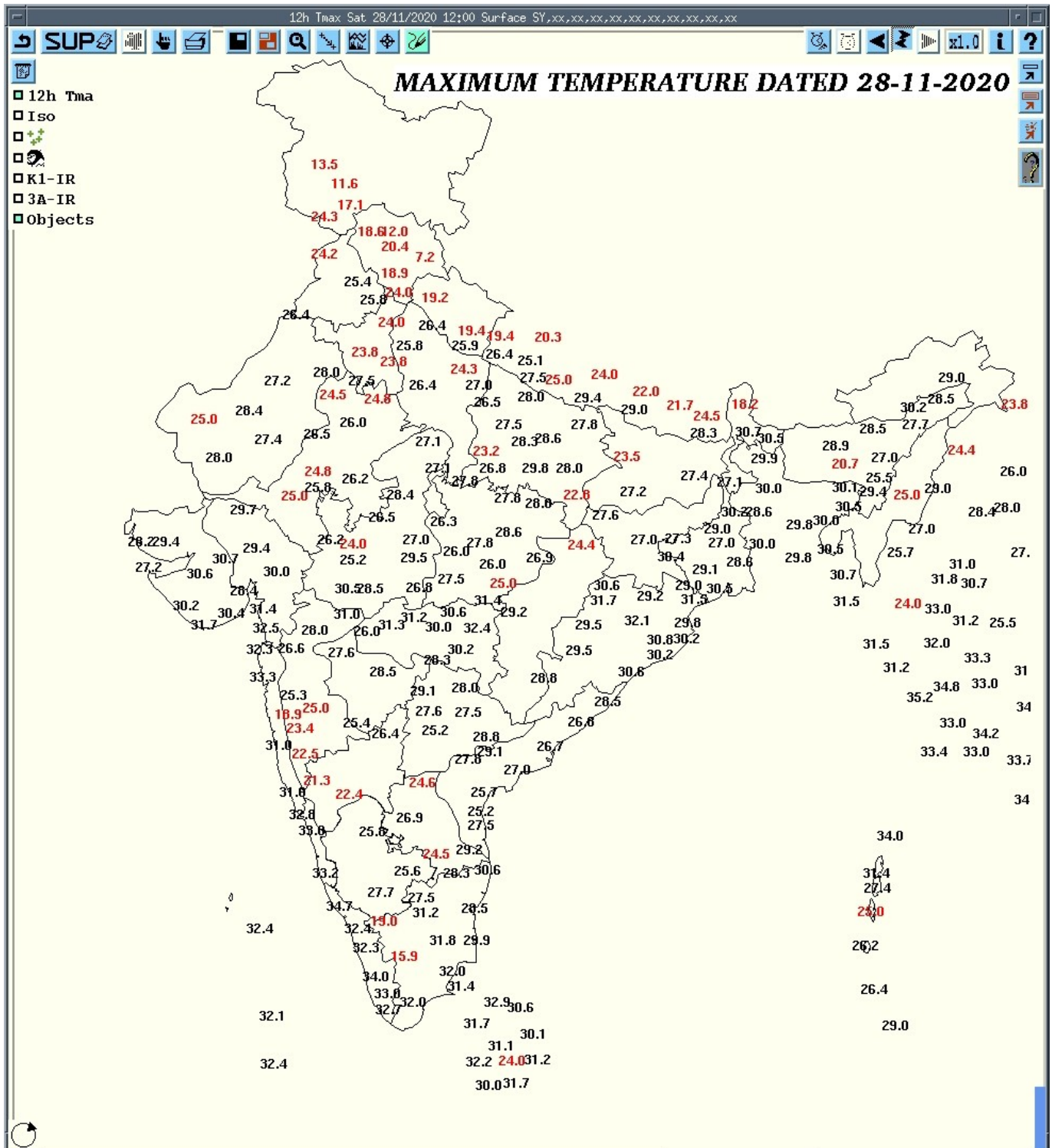
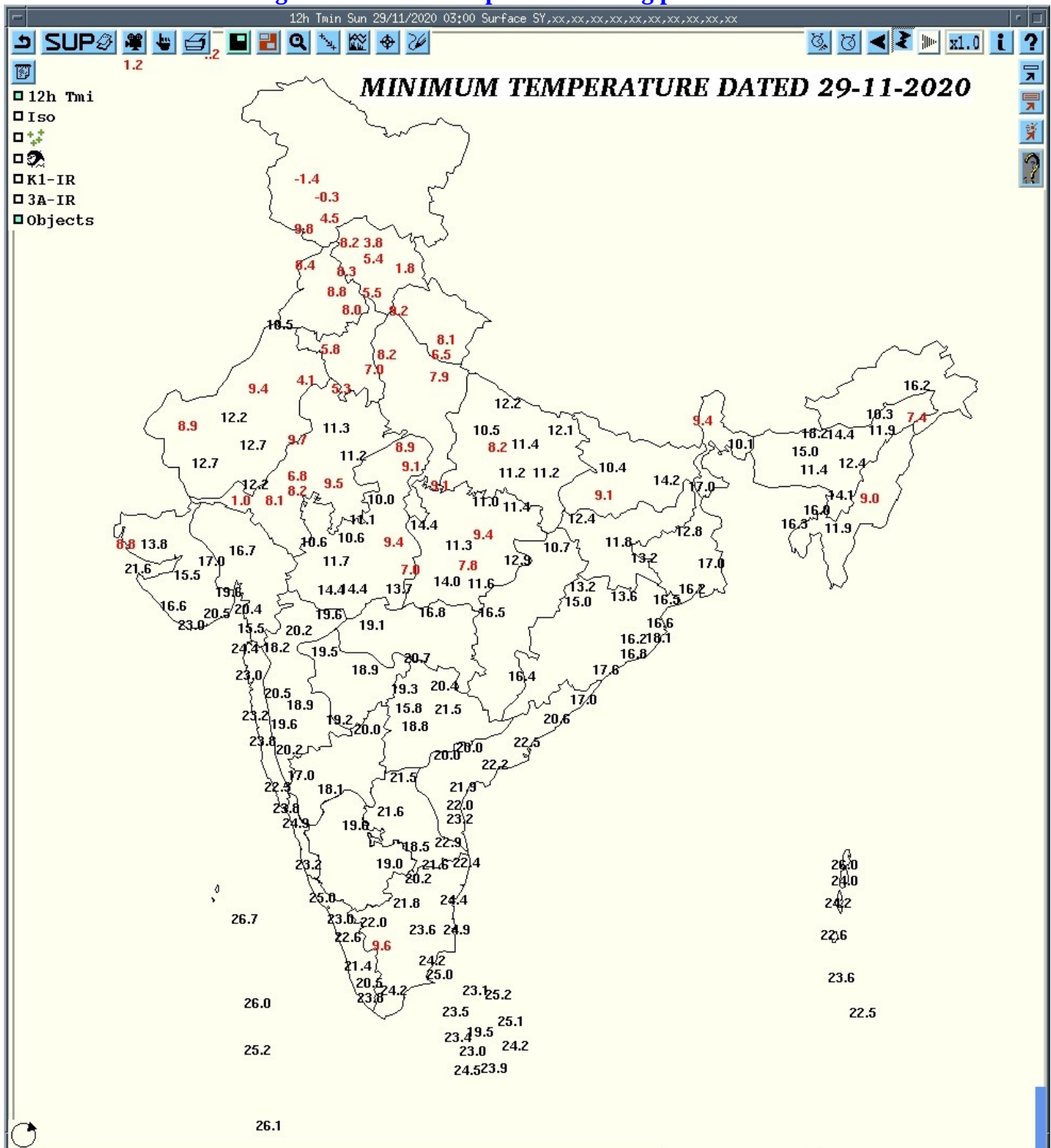


Fig. 3: Minimum Temperature during past 24 hours



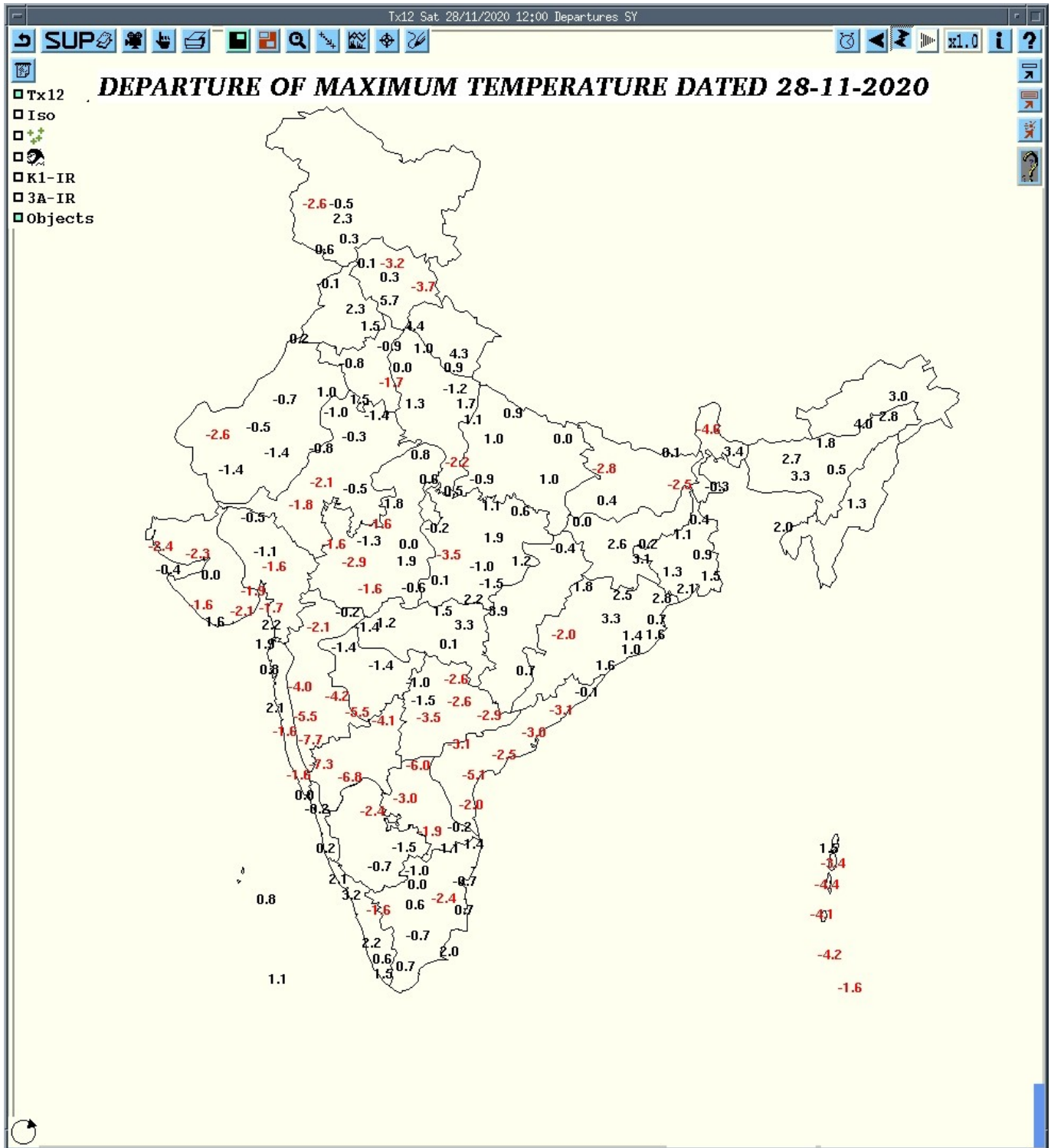
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Fig. 4 : Departure from Normal of Maximum Temperatures



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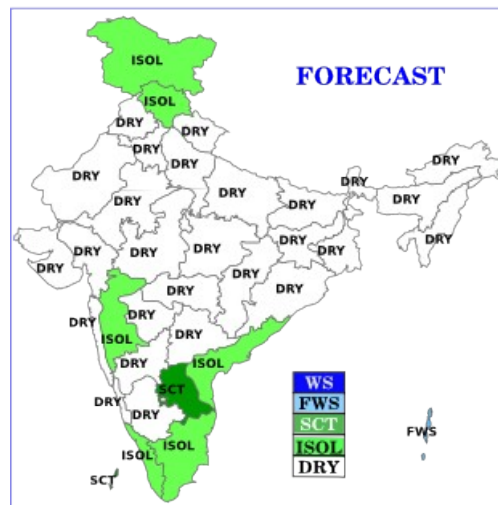
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(Owing to the Motion class 4075)

## Sunday 29 November 2020



29 November (Day 1): ♦ **Heavy rainfall** at isolated places very likely over Andaman & Nicobar Islands.

♦ **Thunderstorm with lightning** at isolated places very likely over Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.

♦ **Dense fog** very likely at isolated places over Tripura.

♦ **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60 kmph) very likely over Southeast Bay of Bengal and South Andaman Sea. Fishermen are advised not to venture into these areas.

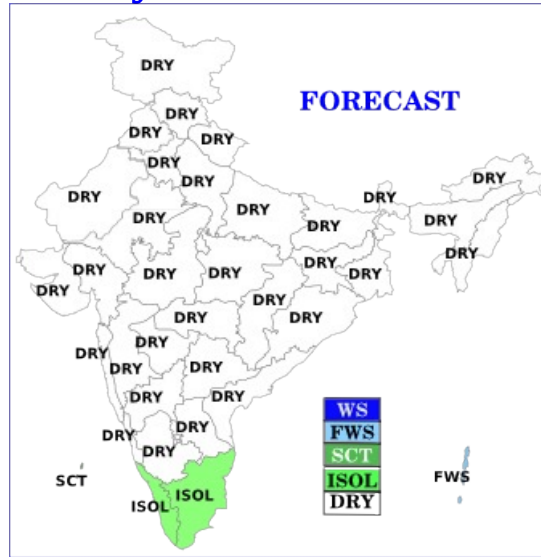
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## Monday 30 November 2020



30 November (Day 2): ♦ Dense fog very likely at isolated places over Tripura.

♦ Squally Weather (wind speed reaching 45-55 kmph gusting to 65 kmph) very likely over central parts of South Bay of Bengal. Fishermen are advised not to venture into these areas.

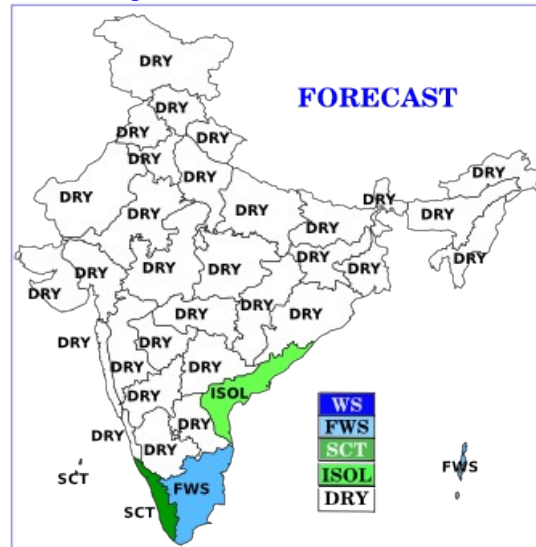
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## Tuesday 01 December 2020



**01 December (Day 3): ♦ Heavy to very heavy rainfall** very likely at isolated places over South Tamilnadu; **heavy rainfall** at isolated places over north Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Thunderstorm with lightning** very likely at isolated places over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 50-60 kmph gusting to 70 kmph) very likely over Southwest Bay of Bengal, Comorin Area, Gulf of Mannar and Tamilnadu-Kerala coasts. Fishermen are advised not to venture into these areas.

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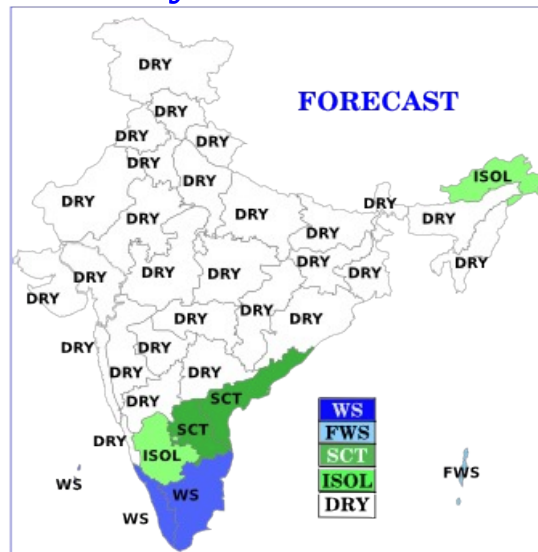
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## Wednesday 02 December 2020



**02 December (Day 4): ♦ Heavy to very heavy rainfall** at a few places with **extremely heavy falls** at isolated places likely over south Tamil Nadu and south Kerala; **heavy to very heavy rainfall** at isolated places over north Tamilnadu, Puducherry & Karaikal and north Kerala & Mahe; **heavy rainfall** at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema and Lakshadweep.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 60-70 kmph gusting to 80 kmph) likely along & off Kerala coast, Comorin Area and Gulf of Mannar and along & off south Tamilnadu coast and (wind speed reaching 50-60 kmph gusting to 70 kmph) over Southeast Arabian Sea and Lakshadweep-Maldives areas. Fishermen are advised not to venture into these areas.

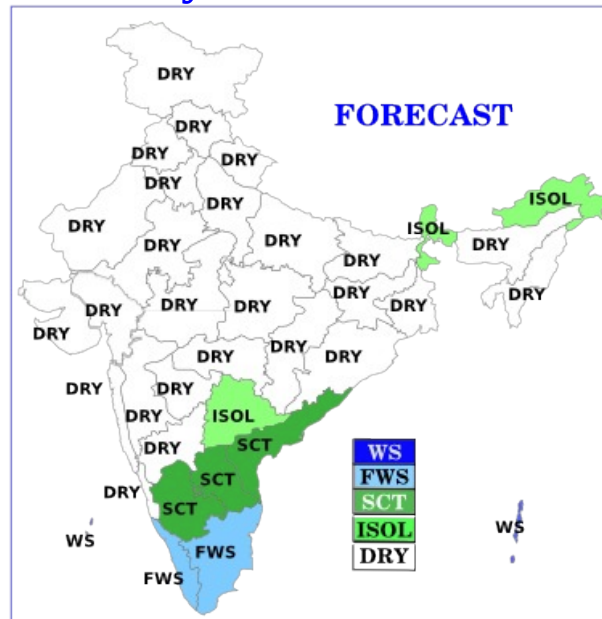
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## Thursday 03 December 2020



**03 December (Day 5): ♦ Heavy to very heavy rainfall** at isolated places over south Tamilnadu, south Kerala and Lakshadweep; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Rayalseema and north Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm with lightning** likely at isolated places over Coastal Andhra Pradesh & Yanam, Rayalseema, South Interior Karnataka, Lakshadweep, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 50-60 kmph gusting to 70 kmph) likely over Southeast Arabian Sea along & off Kerala coast and Lakshadweep area. Fishermen are advised not to venture into these areas.

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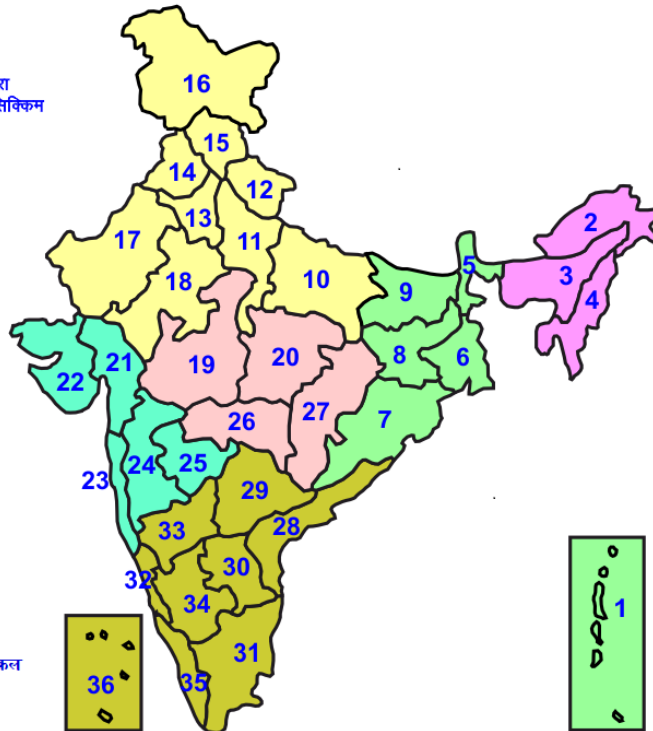
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय 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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(Created by the National since 1975)

## LEGENDS

### 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



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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