



Table-1

5 Day Rainfall Forecast (MORNING)

30-May-2021

Met-Sub-Division	30-May Today	31May Mon	01Jun Tue	02Jun Wed	03Jun Thu
1. Andaman & Nicobar Islands	WS	FWS	FWS	FWS	FWS
2. Arunachal Pradesh	FWS	FWS	FWS	FWS	FWS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	SCT	SCT	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	WS	FWS	WS	WS	WS
6. Gangetic West Bengal	SCT	SCT	SCT	SCT	SCT
7. Odisha	ISOL	ISOL	SCT	SCT	SCT
8. Jharkhand	ISOL	ISOL	ISOL	SCT	SCT
9. Bihar	FWS	SCT	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	SCT	FWS	FWS	SCT	SCT
13. Haryana, Chd & Delhi	ISOL	SCT	FWS	ISOL	ISOL
14. Punjab	ISOL	SCT	SCT	ISOL	ISOL
15. Himachal Pradesh	ISOL	SCT	SCT	SCT	SCT
16. J & K and Ladakh	ISOL	ISOL	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	ISOL	ISOL	ISOL	ISOL
18. East Rajasthan	ISOL	ISOL	ISOL	ISOL	ISOL
19. West Madhya Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
20. East Madhya Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	ISOL	ISOL	ISOL
24. Madhya Maharashtra	SCT	SCT	ISOL	ISOL	ISOL
25. Marathawada	SCT	SCT	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	SCT	FWS	SCT	ISOL	ISOL
29. Telangana	ISOL	SCT	SCT	SCT	SCT
30. Rayalaseema	ISOL	SCT	SCT	SCT	SCT
31. T.N., Puducherry & Karaikal	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	FWS	FWS	FWS	WS	WS
33. North Interior Karnataka	SCT	SCT	SCT	SCT	SCT
34. South Interior Karnataka	SCT	SCT	SCT	FWS	FWS
35. Kerala & Mahe	FWS	FWS	WS	WS	WS
36. Lakshadweep	WS	WS	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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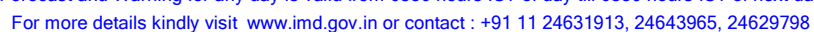
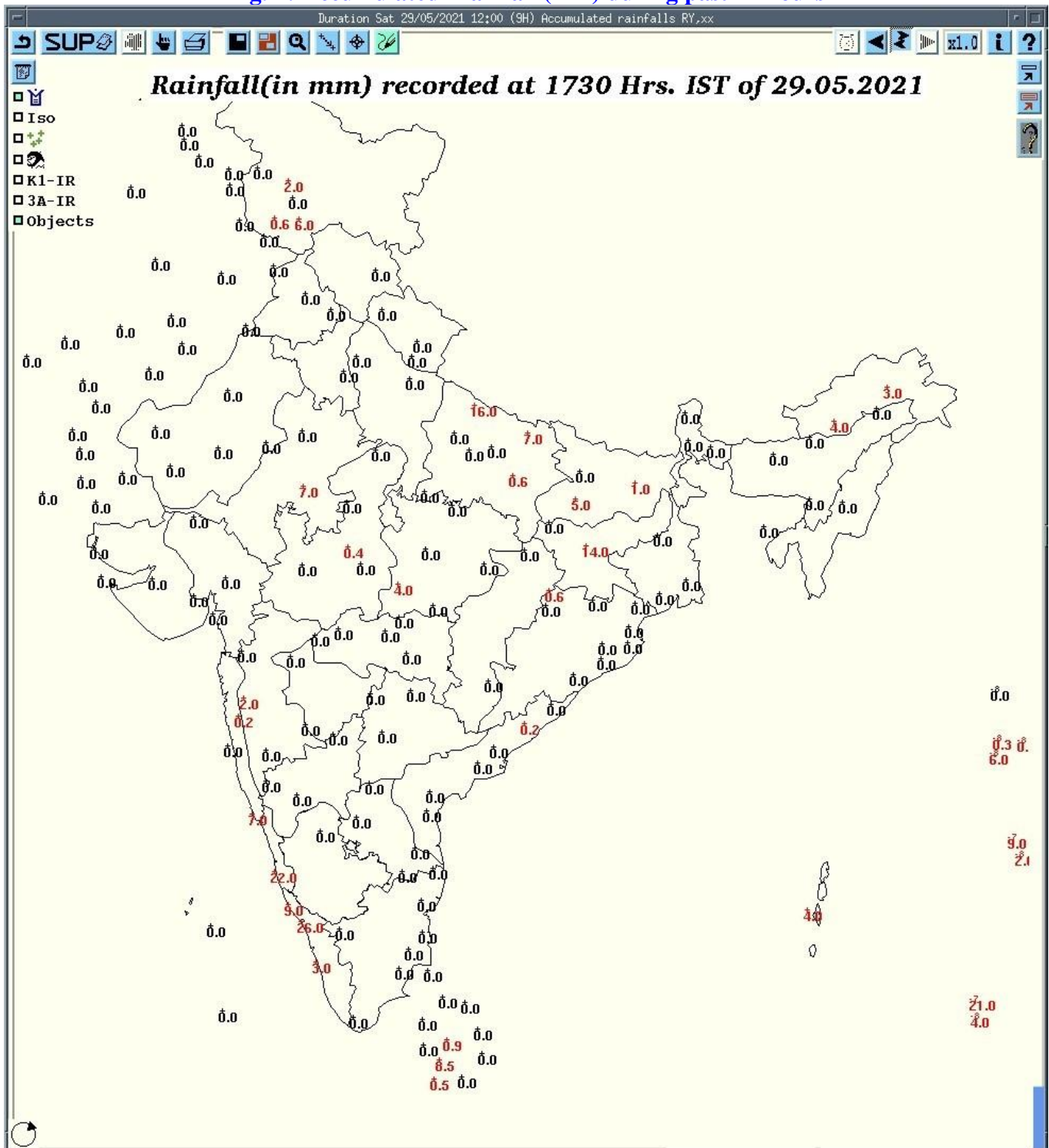


Fig. 1: Accumulated Rainfall (mm) during past 24 hours

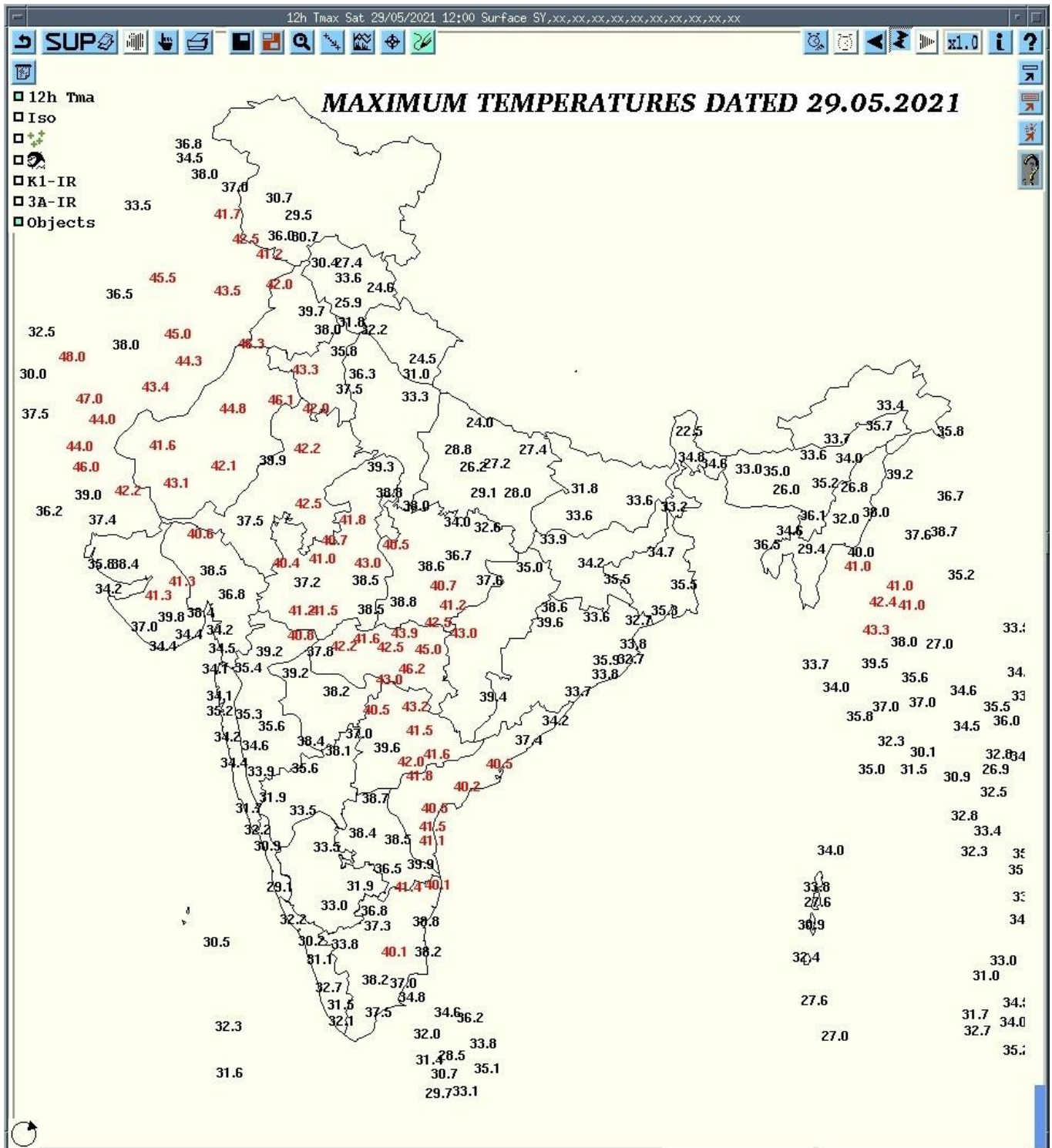


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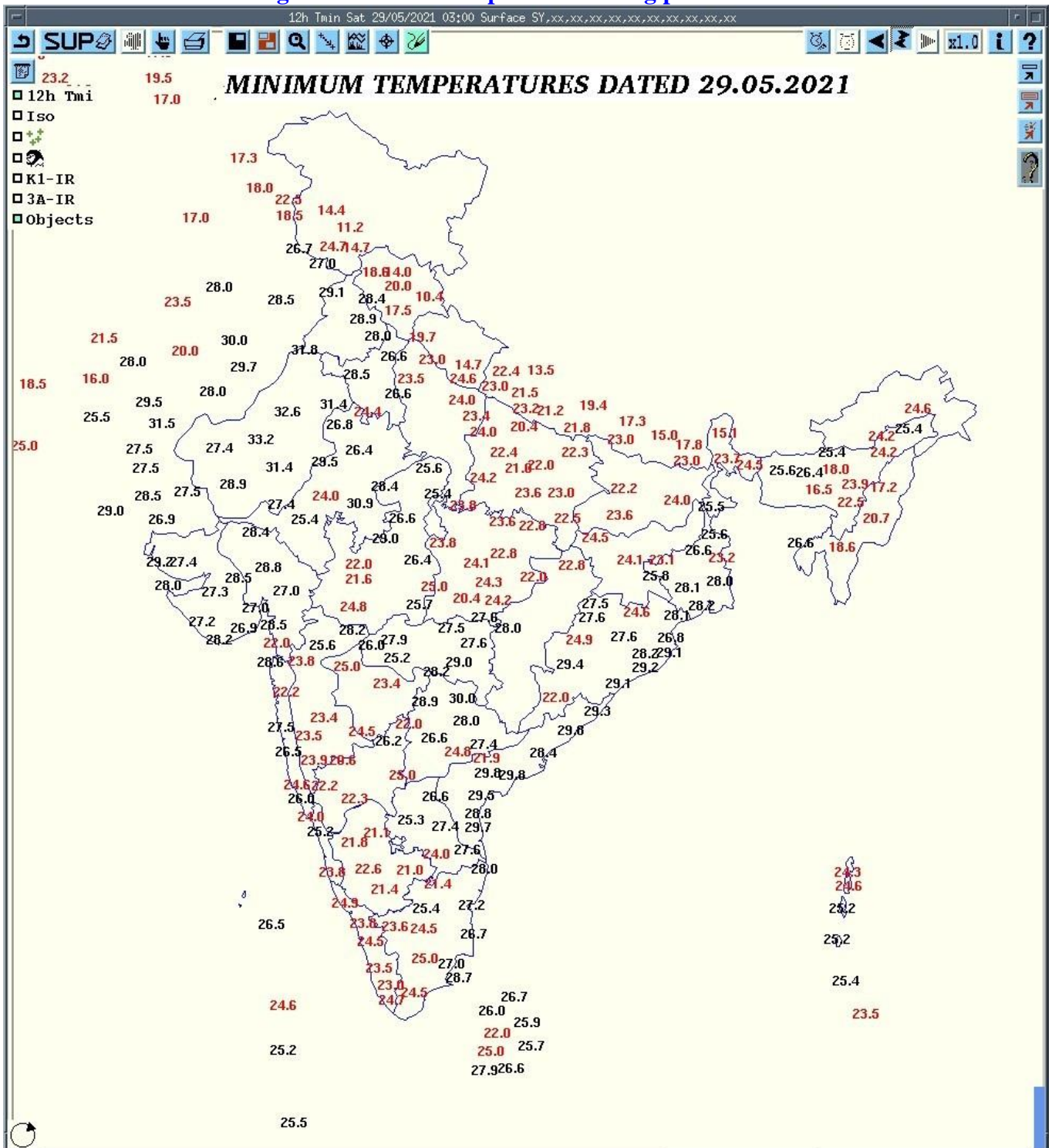
Fig. 2: Maximum Temperature during past 24 hours



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MINIMUM TEMPERATURES DATED 29.05.2021

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DEPARTURES OF MAXIMUM TEMP. DATED 29.05.2021

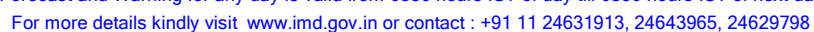
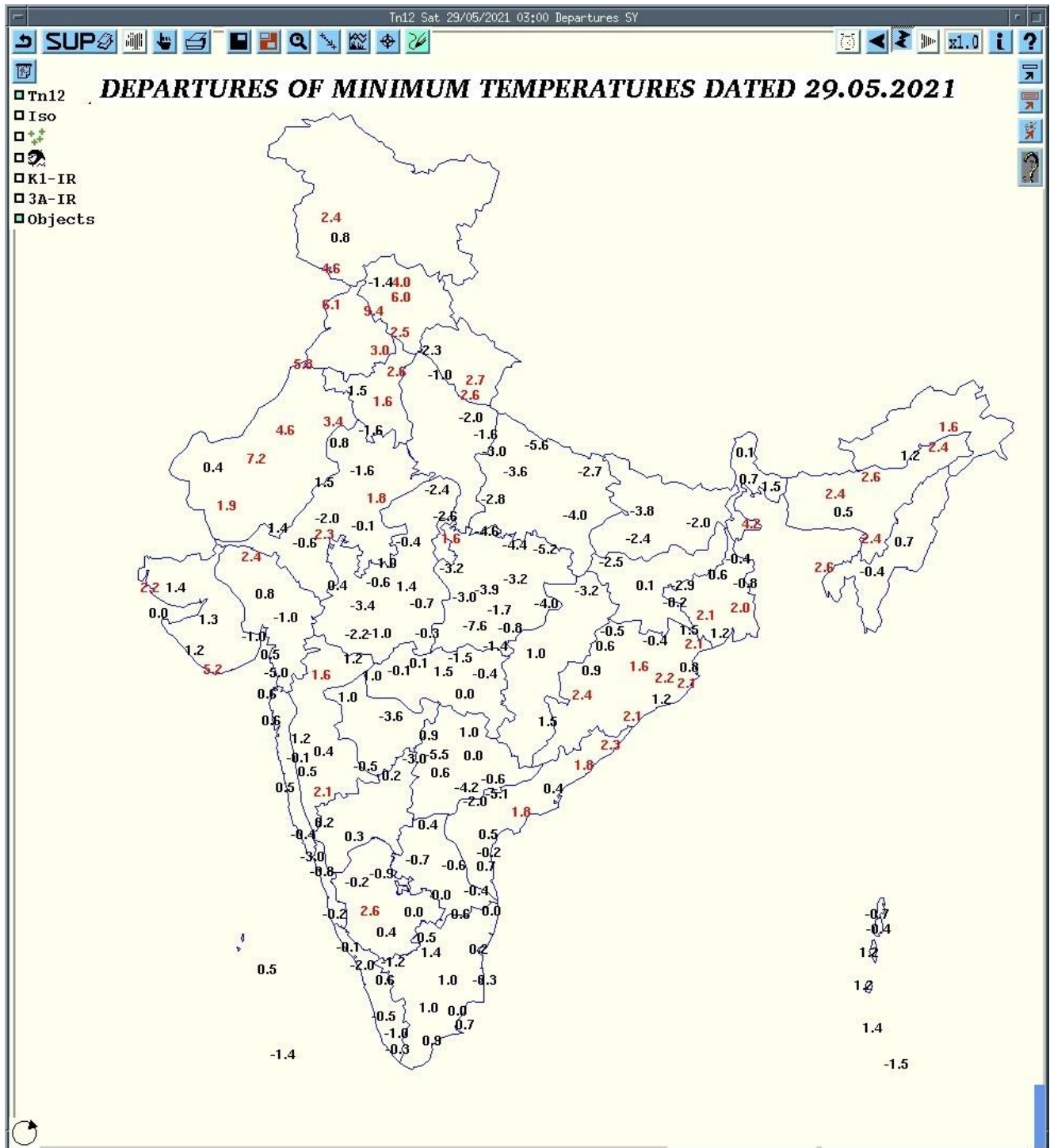


Fig. 5 : Departure from Normal of Minimum Temperatures

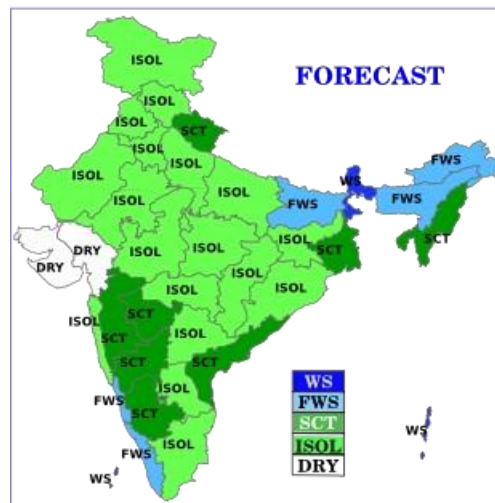


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Sunday 30 May 2021



30 May (Day 1): ♦ Thunderstorm with lightning & gusty winds (speed reaching 40-50 kmph) very likely at isolated places over West Madhya Pradesh; **with lightning & gusty winds (speed reaching 30-40 kmph)** at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Rajasthan, Vidarbha, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. **Thunderstorm/Duststorm (speed reaching 40-50 kmph)** likely at isolated places over West Rajasthan.

♦ **Heat Wave conditions** very likely in some pockets over West Rajasthan; in isolated pockets over south Punjab, south Haryana, East Rajasthan and Vidarbha.

♦ **Heavy Rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

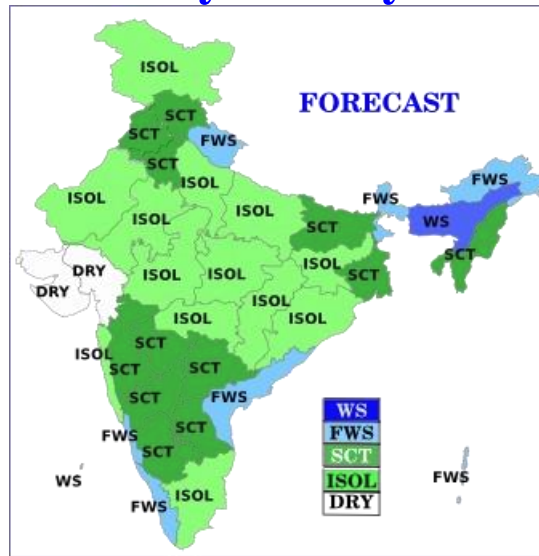
♦ **Squally Weather (wind speed 40-50 kmph)** very likely over Northwest & adjoining Northeast Arabian Sea and Southwest & Westcentral Arabian Sea; Comorin & Lakshadweep areas; south Sri Lanka coast and along & off Kerala coast. Fishermen are advised not to venture into these areas.

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Monday 31 May 2021



31 May (Day 2): ♦ Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Vidarbha, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. **Thunderstorm/Duststorm (speed reaching 40-50 kmph)** likely at isolated places over West Rajasthan.

♦ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

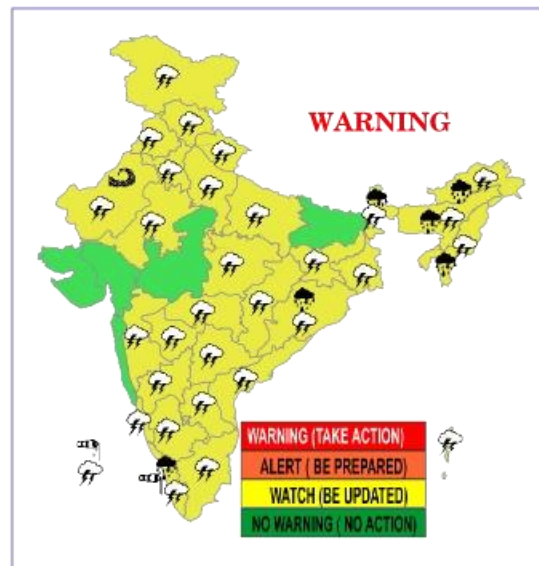
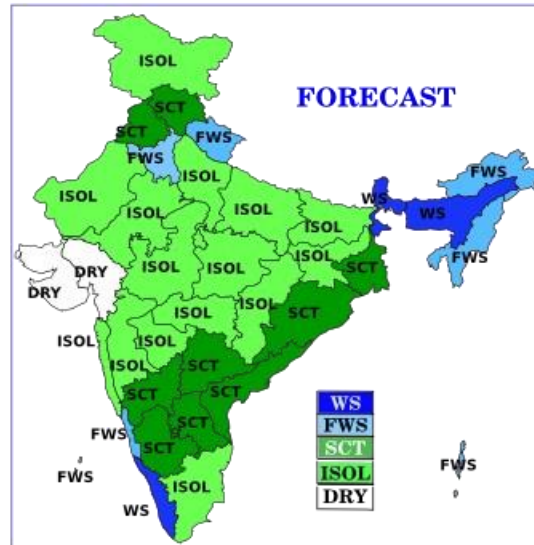
♦ **Squally Weather (wind speed 40-50 kmph)** very likely over Northwest & adjoining Northeast Arabian Sea and Southwest Arabian Sea; Lakshadweep and along & off Kerala coast. Fishermen are advised not to venture into these areas.

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Tuesday 01 June 2021



01 June (Day 3): ♦ Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Rajasthan, Vidarbha, Jharkhand, West Bengal & Sikkim, Odisha, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. **Thunderstorm/Duststorm (speed reaching 40-50 kmph)** likely at isolated places over West Rajasthan.

♦ **Heavy Rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.

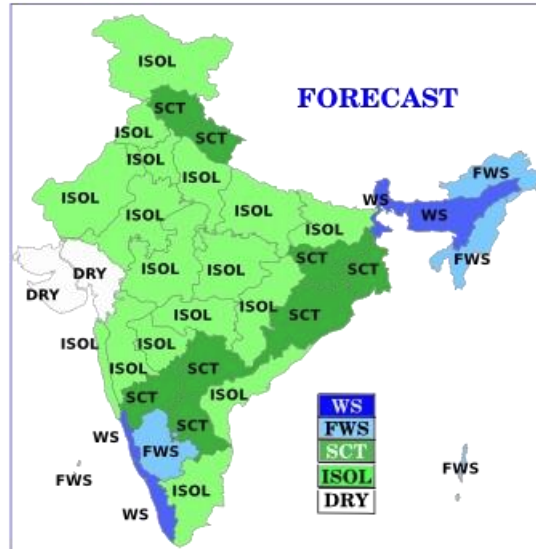
♦ **Squally Weather (wind speed 40-50 kmph)** likely over Northwest & adjoining Northeast Arabian Sea and Southwest Arabian Sea; Lakshadweep and along & off Kerala coast. Fishermen are advised not to venture into these areas.

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Wednesday 02 June 2021



02 June (Day 4): ♦ Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Vidarbha, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and **with lightning** at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. **Thunderstorm/Duststorm (speed reaching 40-50 kmph)** likely at isolated places over West Rajasthan.

♦ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe.

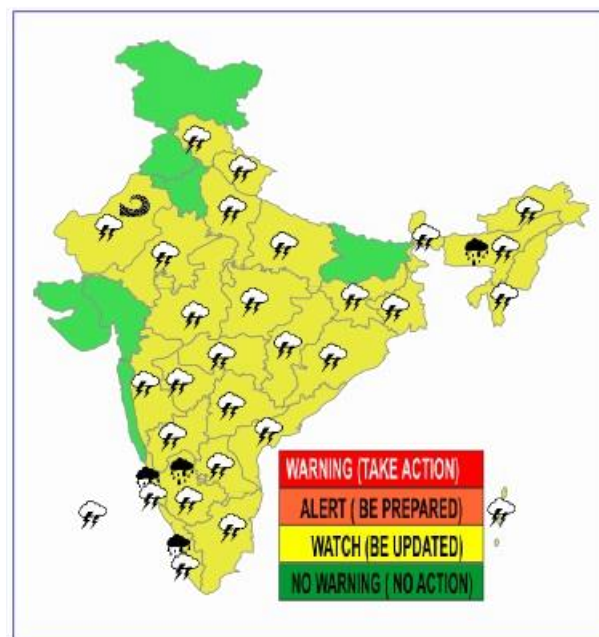
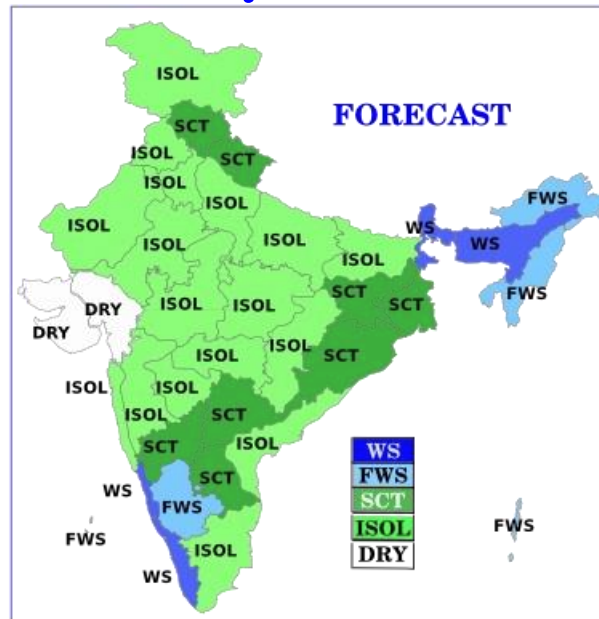
♦ **Squally Weather (wind speed 40-50 kmph)** likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

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Thursday 03 June 2021



03 June (Day 5): ♦ Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph) likely at isolated places over Uttarakhand, West Uttar Pradesh, East Rajasthan, Vidarbha, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Telangana and Kerala & Mahe and **with lightning** at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Odisha, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep. **Thunderstorm/Duststorm (speed reaching 40-50 kmph)** likely at isolated places over West Rajasthan.

♦ **Heavy Rainfall** likely at isolated places over Assam & Meghalaya, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Squally Weather (wind speed 40-50 kmph)** likely over Southwest Arabian Sea. Fishermen are advised not to venture into these areas.

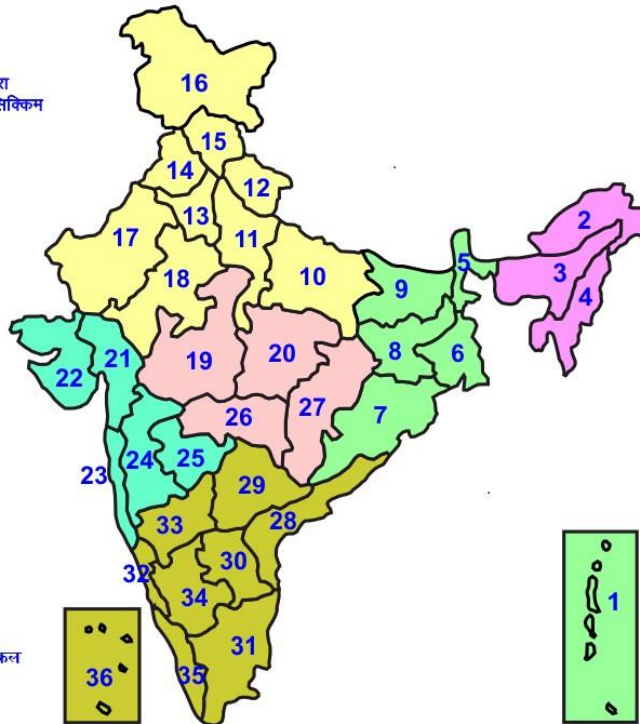
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LEGENDS

- 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 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 मराठावाड़ा
- 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
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15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
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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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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 Strom: Wind speed > 220 kmph (> 119 knots)

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