

Friday 16 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long.75°E to the north of Lat. 27°N.
- ◆ The **Well Marked Low Pressure Area** lies over central parts of Uttar Pradesh & neighbourhood Due to its likely interaction with the trough in middle latitude westerlies, the system is likely to move gradually northeastwards towards east Uttar Pradesh during next 24 hours.
- ◆ **Under their influence:**
 - o Fairly widespread/ widespread light/moderate rainfall with **heavy to very heavy rainfall & thunderstorm/lightning** very likely over Uttarakhand & Uttar Pradesh during 16th-17th September, 2022. Isolated **heavy to very heavy rainfall with extremely heavy falls** also likely over Uttarakhand & West Uttar Pradesh on 17th September, 2022.
 - o Fairly widespread/ widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim and Gujarat Region on 16th; Odisha on 18th & 19th and over ghat areas of Madhya Maharashtra and Konkan & Goa during 16th-17th September, 2022. Isolated **very heavy rainfall** also likely over Gujarat State on 15th and over ghat areas of Madhya Maharashtra and Konkan & Goa on 16th September, 2022.
 - o Fairly widespread/ widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 16th September, 2022.
 - o **Subdued** rainfall activity likely over South Peninsular India during next 5 days.

Main Weather Observations

- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Uttarakhand, Uttar Pradesh, Bihar, Konkan & Goa and Coastal Karnataka; at many places over West Madhya Pradesh and Saurashtra & Kutch; at a few places over Haryana, Chandigarh & Delhi, Assam & Meghalaya, East Madhya Pradesh, Vidarbha, Madhya Maharashtra and Andaman & Nicobar Islands and at isolated places over Himachal Pradesh, East Rajasthan, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Coastal Andhra Pradesh & Yanam, North Interior Karnataka and Kerala & Mahe.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Nahan-6; Cherrapunji, Bulsar & Bhuj-4 each; Bahraich, Gorakhpur, Shanti Niketan, Dwarka, Veraval, Mahabaleshwar, Diu, Dahanu & Matheran-3 each; Sultanpur, Nowgong, Shillong, Okha and Bhaunagar-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, East Uttar Pradesh, Madhya Pradesh, Gujarat State, Bihar, Assam & Meghalaya, Odisha, Vidarbha, Gangetic West Bengal and Coastal Andhra Pradesh & Yanam.
- ◆ **Minimum Temperature Departures (as on 15-09-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Himachal Pradesh, Uttarakhand, West Rajasthan and Punjab; at a few places over West Madhya Pradesh and Odisha; at isolated places over Haryana, East Rajasthan, Assam & Meghalaya, East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim. They were **below normal (-1.6°C to -3.0°C)** at isolated places over East Uttar Pradesh and Telangana and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 18.0°C** was reported at **Khargone (West Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 15-09-2022):** Maximum temperatures were **above normal (1.6°C to 3.0°C)** at a few places over Assam & Meghalaya; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Himachal Pradesh, Odisha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were **markedly below normal (-5.1°C or less)** at isolated places over Uttar Pradesh, West Madhya Pradesh and Saurashtra & Kutch; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Uttarakhand; at isolated places over Haryana, Chandigarh & Delhi, Bihar, East Madhya Pradesh and Gujarat Region; **below normal (-1.6°C to -3.0°C)** at many places over North Interior Karnataka; at isolated places over Gangetic West Bengal, Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 39.0°C** was reported at **Jaisalmer (West Rajasthan)** 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 Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long.75°E to the north of Lat. 27°N.
- ◆ The **Well Marked Low Pressure Area** over northwest Madhya Pradesh & neighbourhood now lies over central parts of Uttar Pradesh & neighbourhood and the associated cyclonic circulation extends upto 5.8 km above mean sea level. Due to its likely interaction with the trough in middle latitude westerlies, the system is likely to move gradually northeastwards towards east Uttar Pradesh during next 24 hours.
- ◆ The **Monsoon Trough** at mean sea level now passes through Bikaner, Jaipur, centre of Well Marked Low Pressure Area over central parts of Uttar Pradesh & neighbourhood, Gorakhpur, Patna, Purnea and thence eastwards to Assam across north Bangladesh.
- ◆ The trough now passed through Westcentral Arabian Sea to the cyclonic circulation associated with the Well Marked Low Pressure Area over central parts of Uttar Pradesh & neighbourhood across central & northeast Arabian sea, north Konkan, south Gujarat region and West Madhya Pradesh between 3.1 km & 4.5 km above mean sea level.
- ◆ The trough in westerlies roughly along Long.90°E to the north of Lat.18°N at 5.8 km above mean sea level has become less marked.
- ◆ An upper air cyclonic circulation is likely to form over North Bay of Bengal along & off north Odisha-west Bengal coasts around 18th September, 2022.

Weather Forecast for next 5 days * upto 0830 hours IST of 21st September, 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.

Weather Outlook for subsequent 2 days During 21st September-23rd September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Central & East India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over many parts of Northwest India where dry weather is likely.

Weather Warning during next 5 days *

16 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Uttarakhand, Uttar Pradesh, ghat areas of Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Gujarat region, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Jharkhand, Bihar, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off south Gujarat, north Maharashtra coasts, adjoining northeast Arabian Sea and adjoining east-central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

17 Sept (Day 2): ♦ Heavy to Very Heavy rainfall with extremely heavy falls at isolated places likely over Uttarakhand and West Uttar Pradesh; **heavy to very heavy rainfall** at isolated places over East Uttar Pradesh and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Konkan & Goa.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Odisha and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

18 Sept (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

19 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

20 Sept (Day 5): ♦ Thunderstorm accompanied with lightning at isolated places likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, south Odisha, Marathawada, north Coastal Andhra Pradesh & Yanam, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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.

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Table-1
5 Day Rainfall Forecast (MORNING)
16-September-2022

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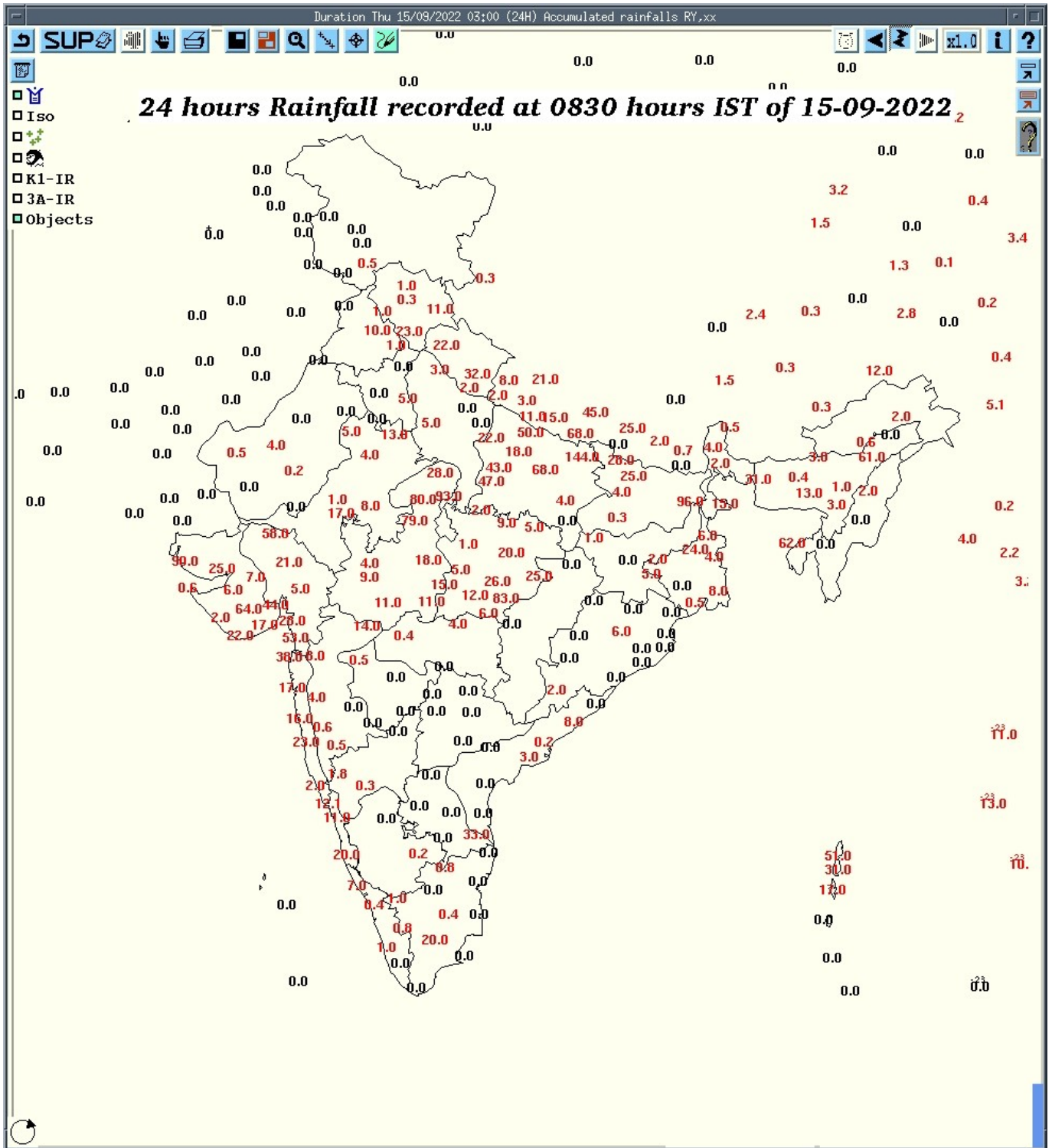
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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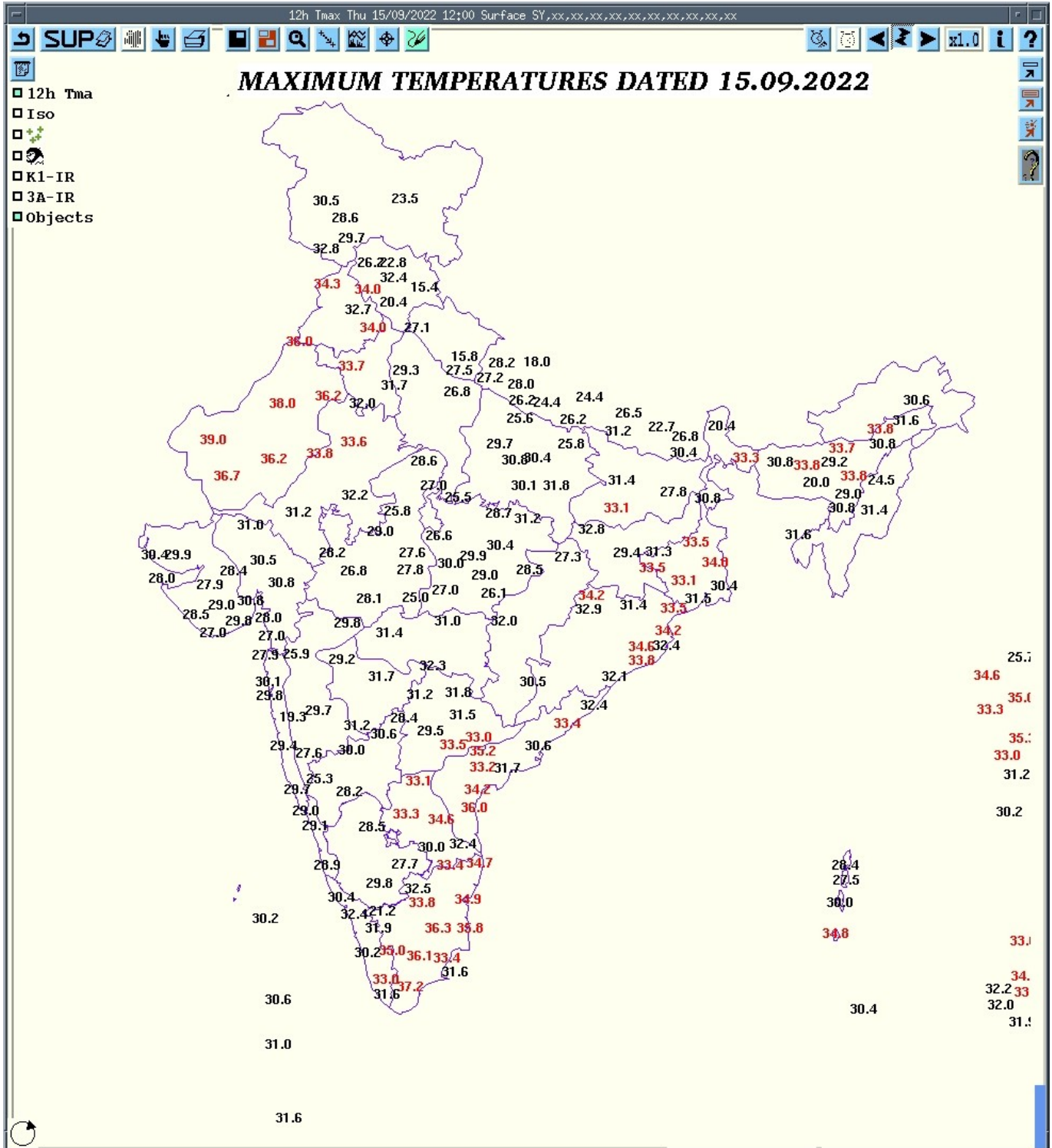
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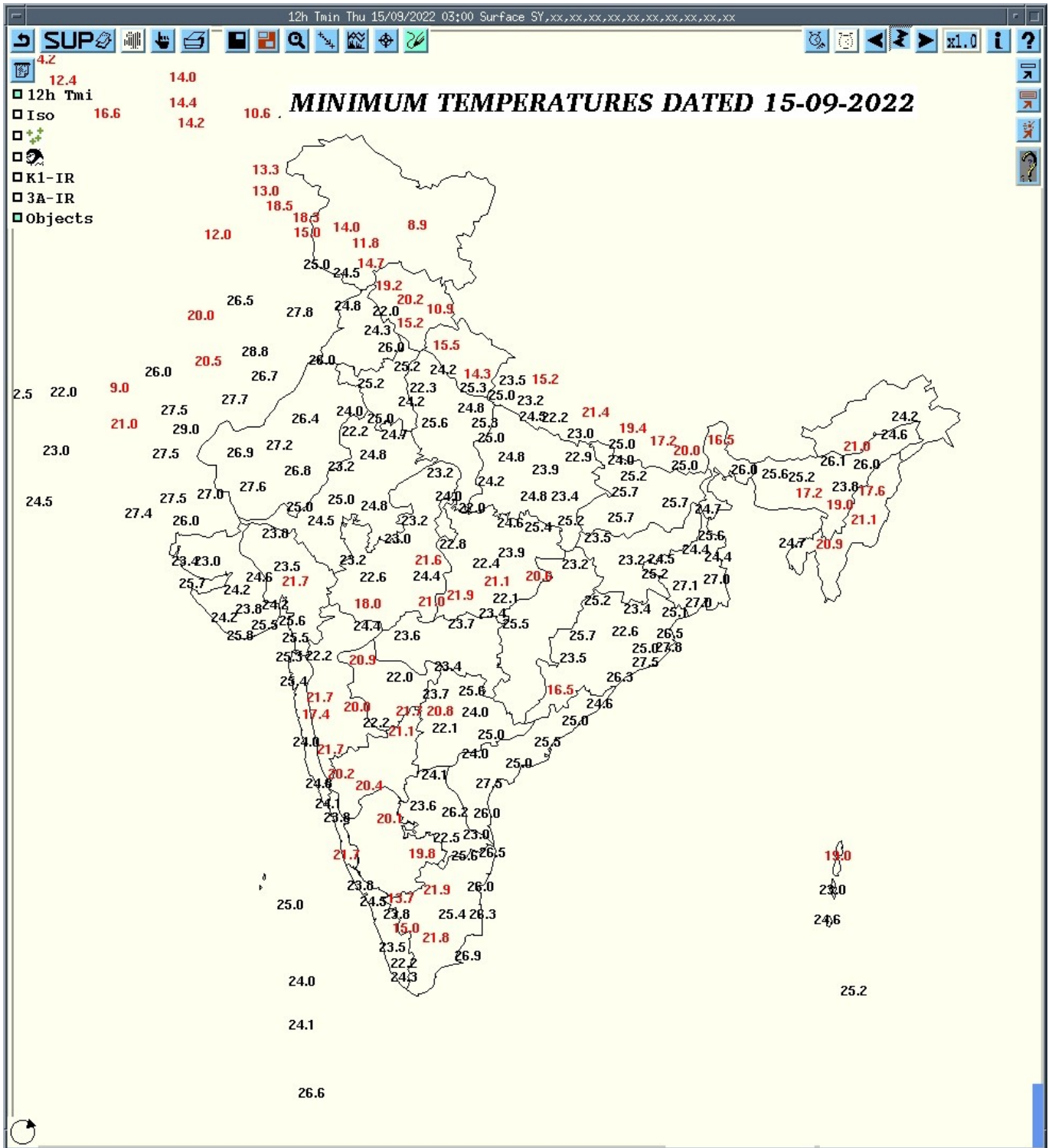
Fig. 2: Maximum Temperature during past 24 hours



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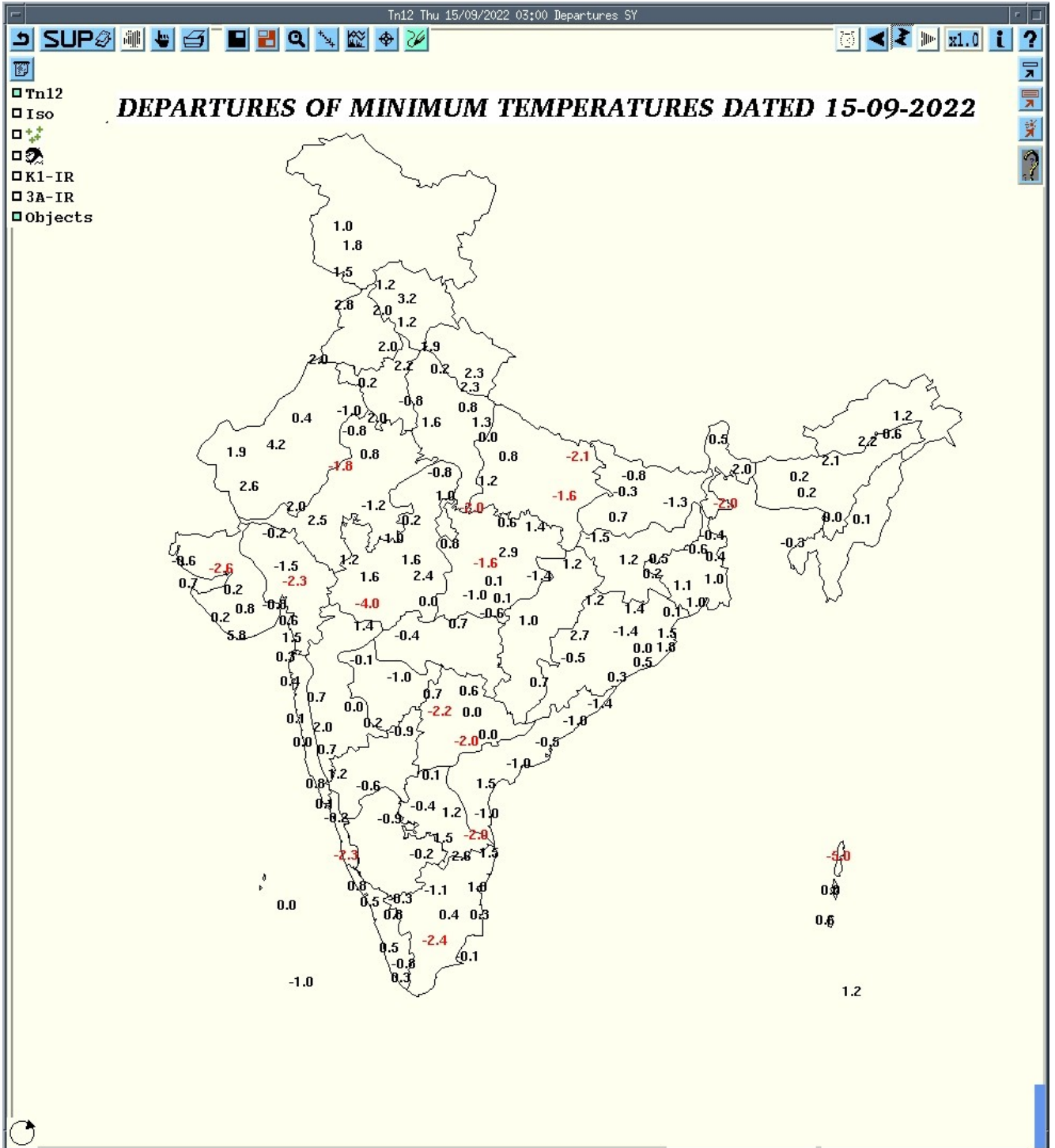
Fig. 3: Minimum Temperature during past 24 hours



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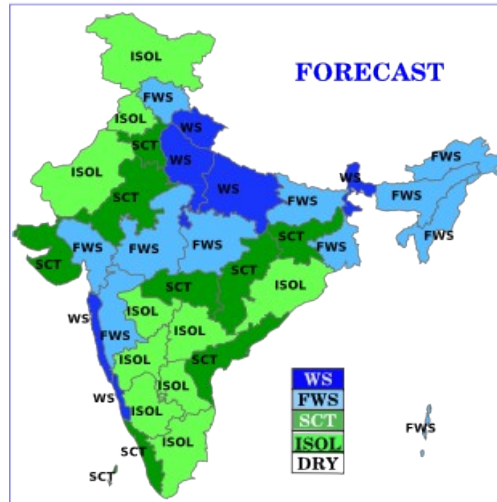


Fig. 5 : Departure from Normal of Minimum Temperatures



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Friday 16 September 2022



16 Sept (Day 1): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Uttarakhand, Uttar Pradesh, ghat areas of Madhya Maharashtra and Konkan & Goa and **heavy rainfall** at isolated places over Gujarat region, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Jharkhand, Bihar, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over along and off south Gujarat, north Maharashtra coasts, adjoining northeast Arabian Sea and adjoining east-central Arabian Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

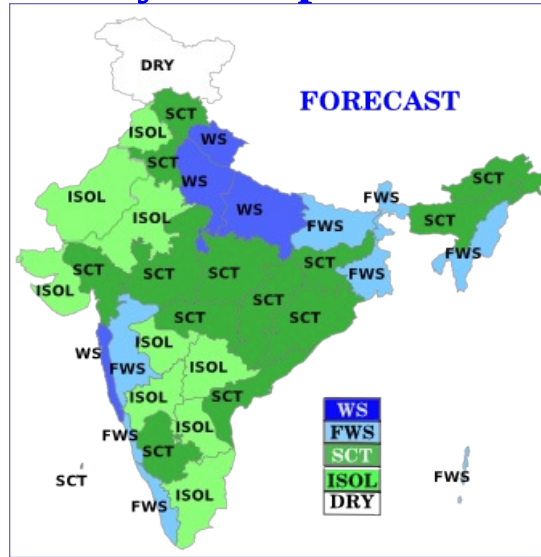
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Saturday 17 September 2022



17 Sept (Day 2): ♦Heavy to Very Heavy rainfall with extremely heavy falls at isolated places likely over Uttarakhand and West Uttar Pradesh; heavy to very heavy rainfall at isolated places over East Uttar Pradesh and heavy rainfall at isolated places over Andaman & Nicobar Islands, Madhya Maharashtra and Konkan & Goa.

♦ Thunderstorm accompanied with lightning at isolated places very likely over Uttarakhand, Uttar Pradesh, Odisha and Kerala & Mahe.

♦ Squally winds of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

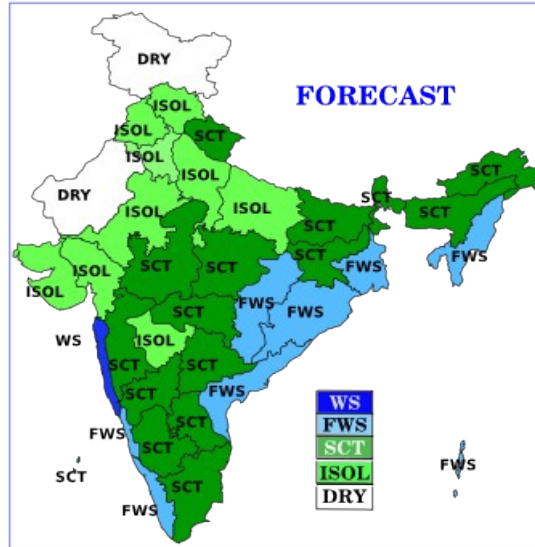
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Sunday 18 September 2022



18 Sept (Day 3): ♦ **Heavy rainfall** at isolated places likely over Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

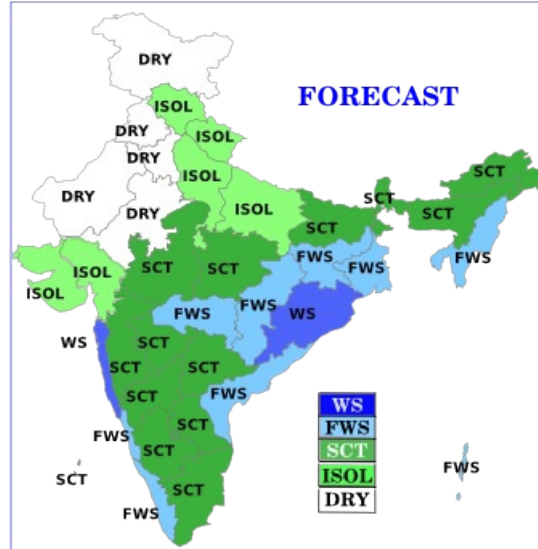
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Monday 19 September 2022



19 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Odisha.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

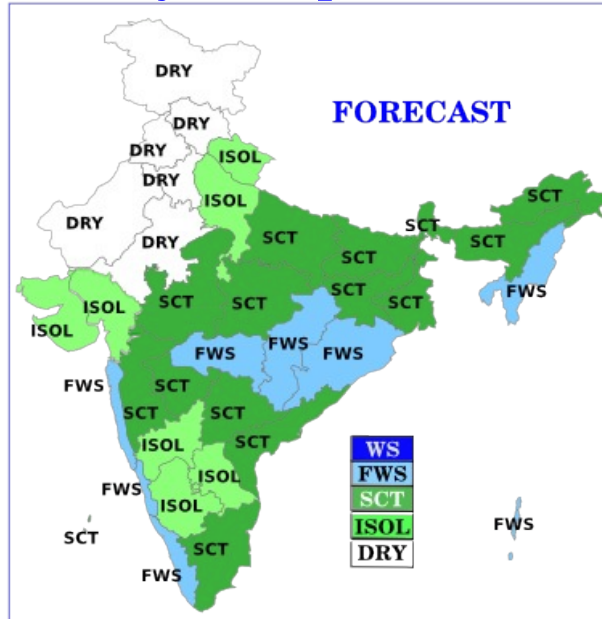
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Tuesday 20 September 2022



20 Sept (Day 5): ♦ Thunderstorm accompanied with lightning at isolated places likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, south Odisha, Marathawada, north Coastal Andhra Pradesh & Yanam, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. Fishermen are advised not to venture into these seas.

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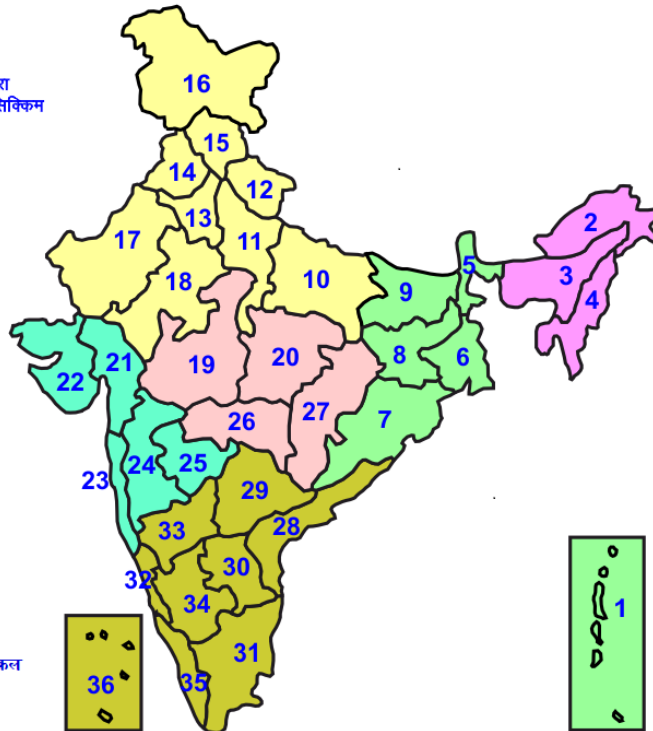
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LEGENDS

- 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 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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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)

* 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

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteorology Dept.)