



Thursday 08 September 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The monsoon trough runs south of its normal position.
- ◆ A cyclonic circulation lies over Interior Karnataka & neighbourhood and extends upto middle tropospheric levels.
- ◆ A cyclonic circulation lies over central parts of Bay of Bengal and extends upto middle tropospheric levels. Under its influence, a Low Pressure Area likely to form over Westcentral Bay of Bengal during next 12 hours.
- ◆ A trough runs from cyclonic circulation over central parts of Bay of Bengal to north Kerala across Rayalaseema & South Interior Karnataka in middle tropospheric levels.

Under the influence of the above systems:

i) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Rayalaseema during 08th-09th; Coastal Andhra Pradesh & Yanam and South Interior Karnataka during 08th-10th; Telangana, Coastal & North Interior Karnataka and Kerala & Mahe during next 5 days. Isolated **very heavy rainfall** also likely over Kerala & Mahe on 08th; Coastal Karnataka during 08th-09th; South Interior Karnataka on 08th; North Interior Karnataka on 09th & 10th; Coastal Andhra Pradesh & Yanam & Telangana during 08th-10th September, 2022.

ii) Fairly widespread/widespread rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Andaman & Nicobar Islands on 08th; Chhattisgarh & Vidarbha 09th-11th; Gujarat State & Gangetic West Bengal on 10th & 11th; Bihar, Jharkhand, East Madhya Pradesh on 11th and over Odisha, Marathwada, Konkan & Goa and Madhya Maharashtra during next 5 days. Isolated **very heavy rainfall** also likely over Odisha on 09th & 10th; Gujarat Region on 11th; Madhya Maharashtra during 08th-12th and over Konkan & Goa during 09th-12th September, 2022.

iii) Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Arunachal Pradesh on 08th and over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 10th & 11th September, 2022.

iv) Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Uttarakhand during 09th-11th September, 2022.

v) **Subdued rainfall** activity likely to continue over most parts of Northwest India during next 5 days.

Main Weather Observations

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◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places Over Konkan & Goa, Lakshadweep and Andaman & Nicobar Islands ; at many places over Chhattisgarh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal ; at a few places over Gangetic West Bengal, Madhya Maharashtra, Telangana, Coastal Karnataka and Rayalaseema; and at isolated places over Uttarakhand, West Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Vidarbha, Odisha, Gujarat and North Interior Karnataka.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Bihar: Bankura, Indore, Pune, Harnai, Tuni, Kozhikode, Port Blair, Satara, Arogyavaram and Maya-Bandar-3 each; Dehradun, Jamshedpur and Valprai-2 each

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan-Goa, Coastal Andhra Pradesh, Telangana, Rayalaseema, Tamil Nadu, Kerala, Lakshadweep.

◆ **Minimum Temperature Departures (as on 07-09-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Uttar Pradesh, West Bengal & Sikkim, East Madhya Pradesh, Odisha, Vidarbha and Gujarat Region and at isolated places over Rajasthan, Punjab, West Madhya Pradesh, Madhya Maharashtra and Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.2°C was reported at Betul (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 07-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Uttarakhand and Nagaland-Manipur-Mizoram-Tripura; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Vidarbha; at isolated places over Odisha; above normal (1.6°C to 3.0°C) at most places over East Rajasthan, Gujarat Region, West Uttar Pradesh, Arunachal Pradesh, Assam-Meghalaya, West Madhya Pradesh and Konkan-Goa; at many places over Punjab, Saurashtra-Kutch, East Uttar Pradesh, West Bengal-Sikkim, East Madhya Pradesh, Madhya Maharashtra, Jharkhand and Chhattisgarh; at a few places over West Rajasthan and Telangana; at Isolated places over North Interior Karnataka and Tamil Nadu. They were below normal (-1.6°C to -3.0°C) at most places over Kerala and Coastal Andhra Pradesh; at many places over Lakshadweep, Tamil Nadu & Andaman-Nicobar Islands; at a few places over South Interior Karnataka and Rayalaseema and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.6°C was reported at Bikaner (West Rajasthan) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The **monsoon trough** at mean sea level now passes through Jaisalmer, Kota, Guna, Jabalpur, Raipur, Bhubaneswar and thence southeastwards to Eastcentral Bay of Bengal.
- ◆ The cyclonic circulation over Interior Karnataka & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Eastcentral & adjoining Southeast Bay of Bengal now lies over central parts of Bay of Bengal and extends upto 5.8 km above mean sea level. Under its influence, a **Low Pressure Area** is likely to form over Westcentral Bay of Bengal during next 12 hours.
- ◆ The trough from cyclonic circulation over Eastcentral & adjoining Southeast Bay of Bengal to north Kerala now runs from cyclonic circulation over central parts of Bay of Bengal to north Kerala across Westcentral Bay of Bengal, Rayalaseema & South Interior Karnataka between 3.1 km & 5.8 km above mean sea level.

Weather Forecast for next 5 days * upto 0830 hours IST of 13th 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 13th September- 15th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over south Peninsular India, West Coast, Central, Northeast & East India. Isolated heavy to very heavy falls also likely along the west coasts and over parts of Northeast & East India.
- ◆ Increased rainfall activity likely over plains of Northwest India.

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Weather Warning during next 5 days *

08 Sept (Day 1): ♦ Heavy to Very Heavy rainfall at isolated places very likely over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe; **Heavy rainfall** at isolated places over Odisha, Konkan & Goa, Andaman & Nicobar Islands, Arunachal Pradesh, Marathwada and Rayalaseema.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Andaman Sea; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra coasts, adjoining east-central Arabian Sea, north Andaman Sea, central and adjoining south Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, along and off Kerala coast, Lakshadweep area, Comorin, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, adjoining east-central Bay of Bengal and adjoining north Andaman Sea; **Squally winds** of 50-60 kmph gusting to 70 kmph likely over east-central Bay of Bengal and adjoining north Andaman Sea. Fishermen are advised not to venture into these seas.

09 Sept (Day 2): ♦ Heavy to very heavy rainfall at a few places very likely over Konkan & Goa; at isolated places over Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Coastal & North Interior Karnataka; **Heavy rainfall** at isolated places over Vidarbha, Marathwada, Chhattisgarh, Uttarakhand, Rayalaseema, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Marathwada, Gujarat region, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Andaman Sea, southeast and adjoining southwest Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra coasts, adjoining east-central Arabian Sea, north Andaman Sea, central and adjoining north Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh, south Odisha coasts, off south Sri Lanka coast, central parts of Bay of Bengal and adjoining northwest Bay of Bengal; **Squally winds** of Squally winds of 50-60 kmph gusting to 70 kmph likely over west-central Bay of Bengal and north coastal Andhra Pradesh. Fishermen are advised not to venture into these seas.

10 Sept (Day 3): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Gujarat State, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places likely over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra, south Gujarat coasts, adjoining east-central Arabian Sea, central parts of Bay of Bengal and adjoining northwest Bay of Bengal, adjoining northeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, east-central Arabian Sea till off Karnataka and Maharashtra coasts, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh, south Odisha coasts, off south Sri Lanka coast, west-central and adjoining east-central Bay of Bengal, adjoining northwest Bay of Bengal, adjoining northeast Bay of Bengal; **Squally winds** of Squally winds of 50-60 kmph gusting to 70 kmph likely over west-central Bay of Bengal and north coastal Andhra Pradesh. Fishermen are advised not to venture into these seas.

11 Sept (Day 4): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; at isolated places over Madhya Maharashtra & Gujarat region and **heavy rainfall** at isolated places over Uttarakhand, Odisha, Vidarbha, Chhattisgarh, East Madhya Pradesh, Bihar, Jharkhand, Saurashtra & Kutch, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Gujarat state and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, adjoining east-central, northeast 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, east-central Arabian Sea, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh coasts, off south Sri Lanka coast, west-central Bay of Bengal, adjoining southwest and northwest Bay of Bengal, north coastal Andhra Pradesh, south coastal Odisha. Fishermen are advised not to venture into these seas.

12 Sept (Day 5): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; at isolated places over Madhya Maharashtra and Assam & Meghalaya and **heavy rainfall** at isolated places over Vidarbha, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Karnataka, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, East Rajasthan, East Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana, Interior Karnataka, Gujarat state and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, adjoining east-central, northeast 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, east-central Arabian Sea, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh coasts, off south Sri Lanka coast, west-central Bay of Bengal, adjoining southwest and northwest Bay of Bengal, north coastal Andhra Pradesh, south coastal Odisha. Fishermen are advised not to venture into these seas.

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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)
08-September-2022

Met-Sub-Division	08-Sep Today	09Sep Fri	10Sep Sat	11Sep Sun	12Sep Mon
1. Andaman & Nicobar Islands	WS	FWS	SCT	SCT	SCT
2. Arunachal Pradesh	FWS	SCT	SCT	FWS	FWS
3. Assam & Meghalaya	SCT	SCT	FWS	FWS	WS
4. N. M. M. & T.	FWS	FWS	FWS	WS	WS
5. S.H. West Bengal & Sikkim	SCT	SCT	FWS	FWS	FWS
6. Gangetic West Bengal	SCT	FWS	WS	WS	FWS
7. Odisha	FWS	WS	WS	FWS	FWS
8. Jharkhand	SCT	FWS	FWS	WS	FWS
9. Bihar	SCT	ISOL	SCT	FWS	FWS
10. East Uttar Pradesh	ISOL	ISOL	ISOL	SCT	SCT
11. West Uttar Pradesh	ISOL	ISOL	ISOL	SCT	SCT
12. Uttarakhand	ISOL	FWS	FWS	FWS	SCT
13. Haryana, Chd & Delhi	DRY	ISOL	ISOL	ISOL	ISOL
14. Punjab	DRY	DRY	ISOL	ISOL	ISOL
15. Himachal Pradesh	ISOL	ISOL	SCT	SCT	ISOL
16. J & K and Ladakh	ISOL	ISOL	SCT	SCT	ISOL
17. West Rajsthan	DRY	DRY	ISOL	ISOL	ISOL
18. East Rajasthan	ISOL	DRY	SCT	SCT	SCT
19. West Madhya Pradesh	ISOL	SCT	SCT	SCT	FWS
20. East Madhya Pradesh	FWS	FWS	FWS	FWS	FWS
21. Gujarat Region	ISOL	SCT	FWS	FWS	FWS
22. Saurashtra & Kutch	ISOL	ISOL	SCT	FWS	FWS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	WS	WS	WS	WS	WS
25. Marathawada	WS	WS	WS	WS	WS
26. Vidharbha	FWS	FWS	WS	WS	FWS
27. Chhattisgarh	FWS	WS	WS	WS	FWS
28. Coastal A. P. & Yanam	WS	WS	WS	FWS	FWS
29. Telangana	WS	WS	WS	FWS	FWS
30. Rayalaseema	FWS	FWS	SCT	SCT	SCT
31. T.N.,Puducherry & Karaikal	SCT	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	WS	WS	WS	WS	FWS
34. South Interior Karnataka	WS	WS	FWS	FWS	SCT
35. Kerala & Mahe	WS	WS	WS	WS	FWS
36. Lakshadweep	WS	WS	FWS	FWS	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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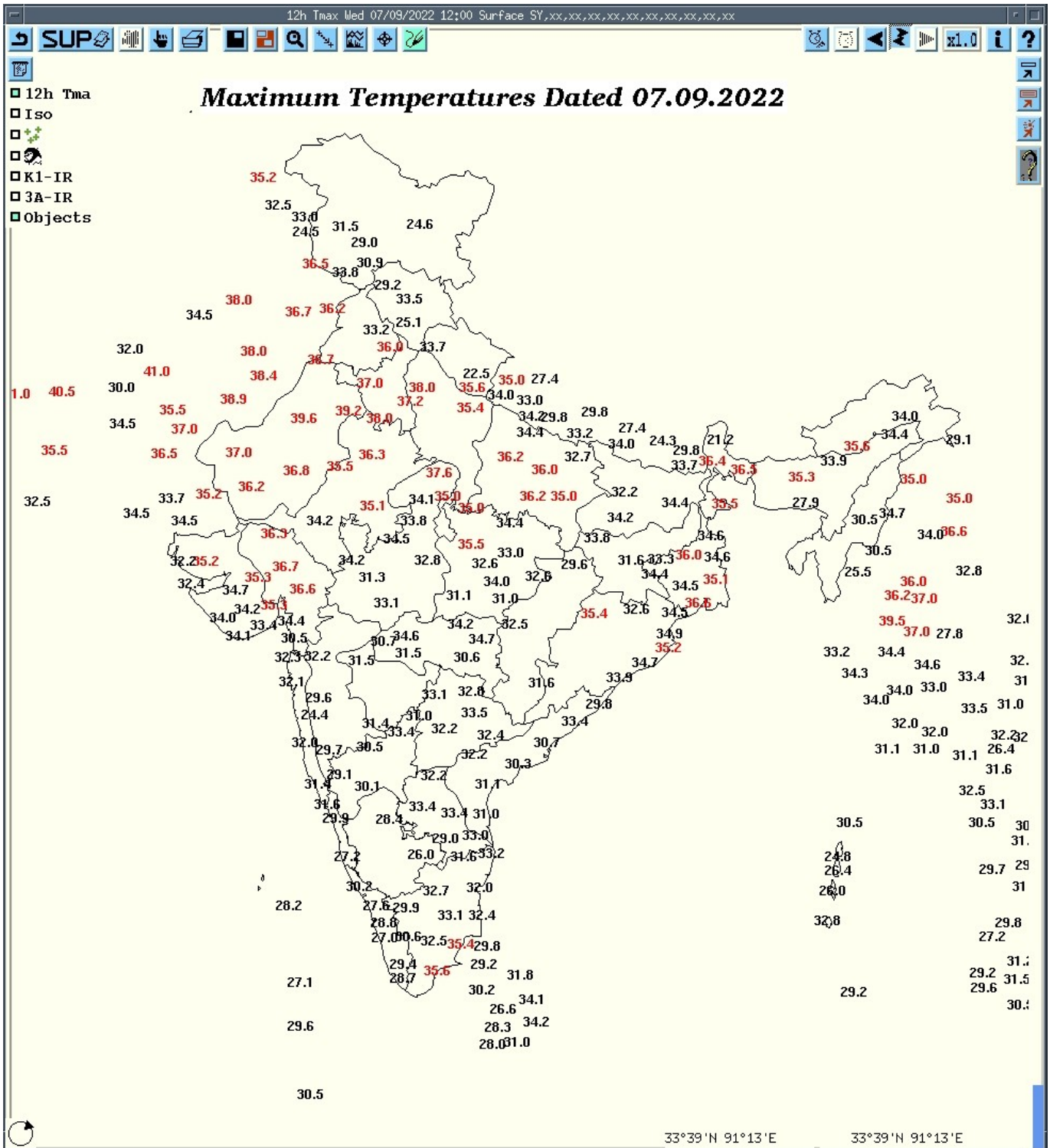
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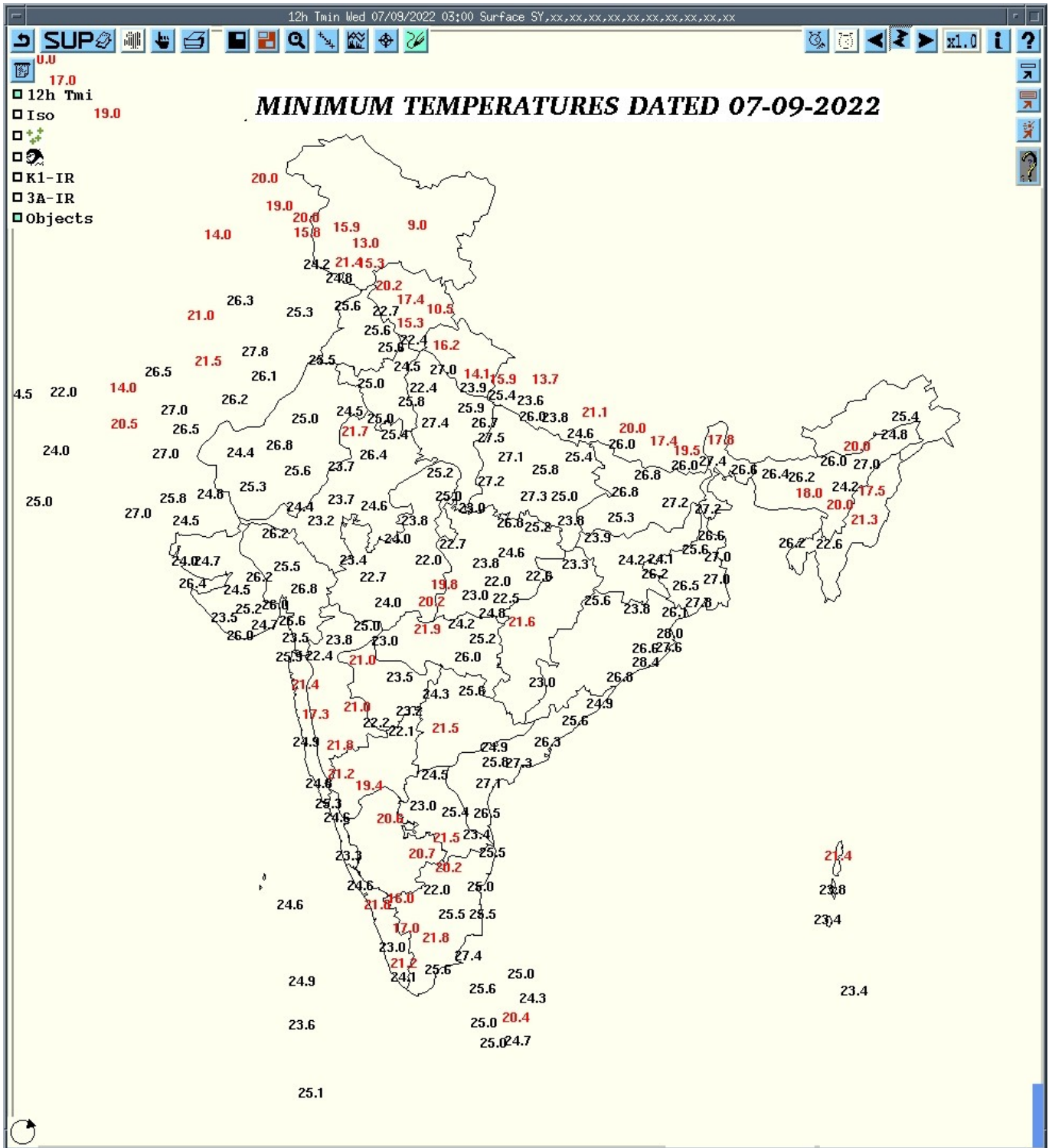
Fig. 2: Maximum Temperature during past 24 hours



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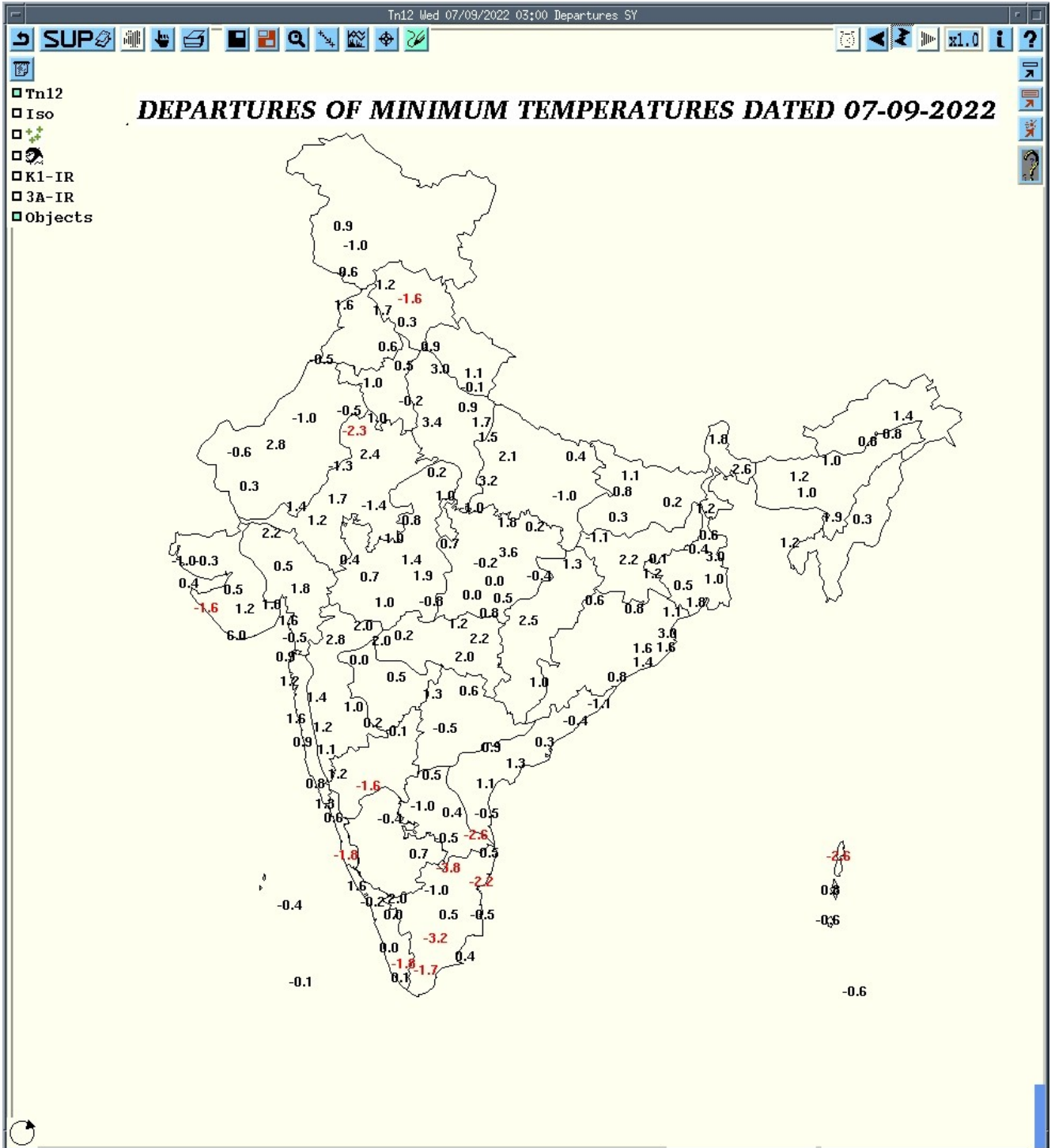
Fig. 3: Minimum Temperature during past 24 hours



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Fig. 5 : Departure from Normal of Minimum Temperatures



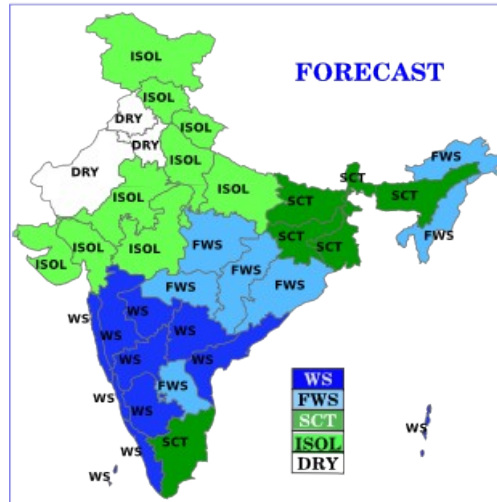
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Thursday 08 September 2022



08 Sept (Day 1): ♦ **Heavy to Very Heavy rainfall** at isolated places very likely over Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Kerala & Mahe; **Heavy rainfall** at isolated places over Odisha, Konkan & Goa, Andaman & Nicobar Islands, Arunachal Pradesh, Marathwada and Rayalaseema.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Andaman Sea; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra coasts, adjoining east-central Arabian Sea, north Andaman Sea, central and adjoining south Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, along and off Kerala coast, Lakshadweep area, Comorin, Gulf of Mannar, south Tamil Nadu coast, off south Sri Lanka coast, southwest and adjoining southeast Bay of Bengal, adjoining east-central Bay of Bengal and adjoining north Andaman Sea; **Squally winds** of 50-60 kmph gusting to 70 kmph likely over east-central Bay of Bengal and adjoining north Andaman Sea. Fishermen are advised not to venture into these seas.

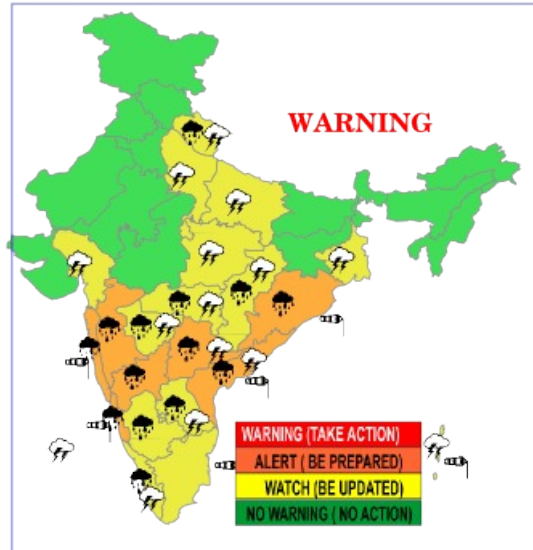
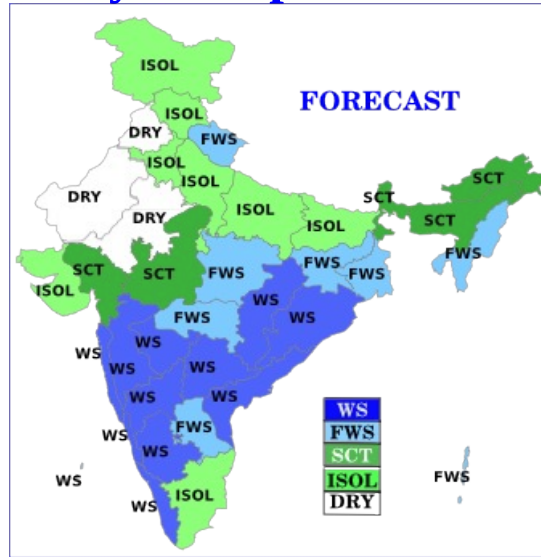
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Friday 09 September 2022



09 Sept (Day 2): ♦ Heavy to very heavy rainfall at a few places very likely over Konkan & Goa; at isolated places over Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana and Coastal & North Interior Karnataka; **Heavy rainfall** at isolated places over Vidarbha, Marathwada, Chhattisgarh, Uttarakhand, Rayalaseema, South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Andaman & Nicobar Islands; **with lightning & gusty winds (speed 30-40 kmph)** at isolated places over Telangana and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Marathwada, Gujarat region, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe and Lakshadweep.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Andaman Sea, southeast and adjoining southwest Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra coasts, adjoining east-central Arabian Sea, north Andaman Sea, central and adjoining north Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh, south Odisha coasts, off south Sri Lanka coast, central parts of Bay of Bengal and adjoining northwest Bay of Bengal; **Squally winds** of Squally winds of 50-60 kmph gusting to 70 kmph likely over west-central Bay of Bengal and north coastal Andhra Pradesh. Fishermen are advised not to venture into these seas.

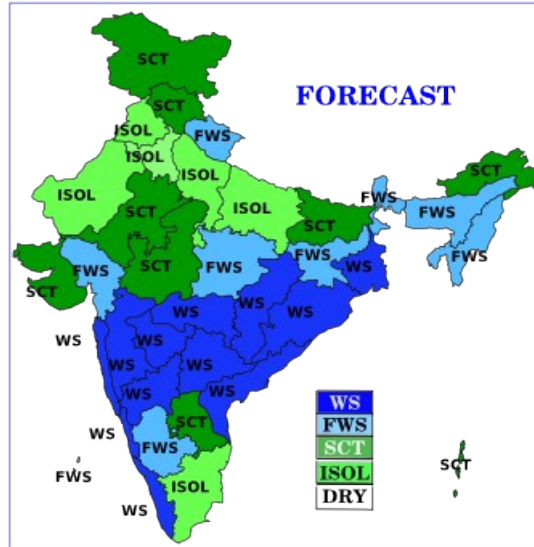
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Saturday 10 September 2022



10 Sept (Day 3): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; at isolated places over Odisha, Coastal Andhra Pradesh & Yanam, Telangana, North Interior Karnataka and Madhya Maharashtra and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Gujarat State, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal & South Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** at isolated places likely over Telangana and **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Gujarat state, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely along and off Karnataka, Goa, Maharashtra, south Gujarat coasts, adjoining east-central Arabian Sea, central parts of Bay of Bengal and adjoining northwest Bay of Bengal, adjoining northeast Bay of Bengal. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, east-central Arabian Sea till off Karnataka and Maharashtra coasts, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh, south Odisha coasts, off south Sri Lanka coast, west-central and adjoining east-central Bay of Bengal, adjoining northwest Bay of Bengal, adjoining northeast Bay of Bengal; **Squally winds** of Squally winds of 50-60 kmph gusting to 70 kmph likely over west-central Bay of Bengal and north coastal Andhra Pradesh. Fishermen are advised not to venture into these seas.

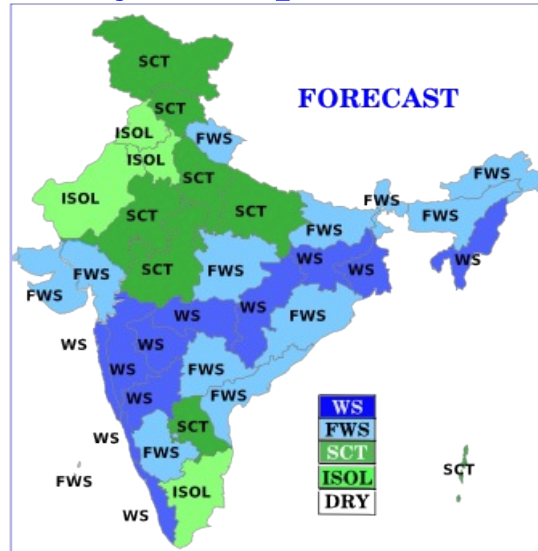
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(Created by the National News 1070)

Sunday 11 September 2022



11 Sept (Day 4): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; at isolated places over Madhya Maharashtra & Gujarat region and **heavy rainfall** at isolated places over Uttarakhand, Odisha, Vidarbha, Chhattisgarh, East Madhya Pradesh, Bihar, Jharkhand, Saurashtra & Kutch, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Telangana, Coastal & North Interior Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Uttar Pradesh, Vidarbha, Chhattisgarh, Gujarat state and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, adjoining east-central, northeast 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, east-central Arabian Sea, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh coasts, off south Sri Lanka coast, west-central Bay of Bengal, adjoining southwest and northwest Bay of Bengal, north coastal Andhra Pradesh, south coastal Odisha. Fishermen are advised not to venture into these seas.

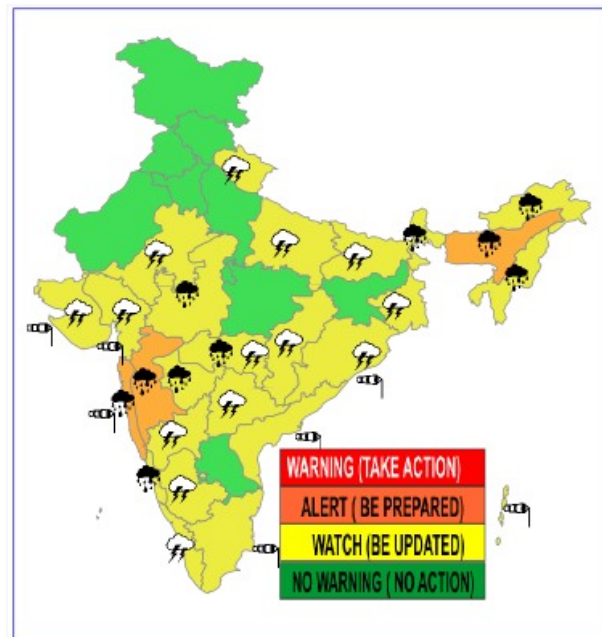
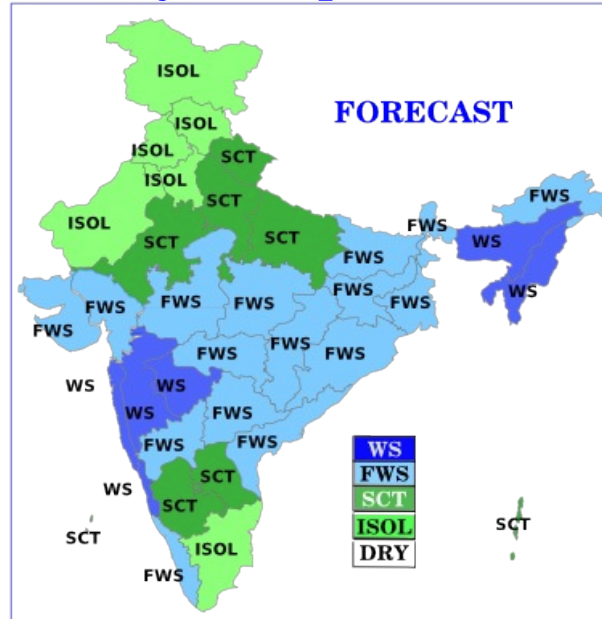
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(Copies to the Media since 1975)

Monday 12 September 2022



12 Sept (Day 5): ♦ **Heavy to very heavy rainfall** at a few places likely over Konkan & Goa; at isolated places over Madhya Maharashtra and Assam & Meghalaya and **heavy rainfall** at isolated places over Vidarbha, West Madhya Pradesh, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Karnataka, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh..

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, East Rajasthan, East Uttar Pradesh, Vidarbha, Chhattisgarh, Odisha, Telangana, Interior Karnataka, Gujarat state and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest and adjoining southeast Bay of Bengal; Squally weather (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Gujarat coasts, adjoining east-central, northeast 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, east-central Arabian Sea, Gulf of Mannar, along and off Tamil Nadu, Andhra Pradesh coasts, off south Sri Lanka coast, west-central Bay of Bengal, adjoining southwest and northwest Bay of Bengal, north coastal Andhra Pradesh, south coastal Odisha. Fishermen are advised not to venture into these seas.

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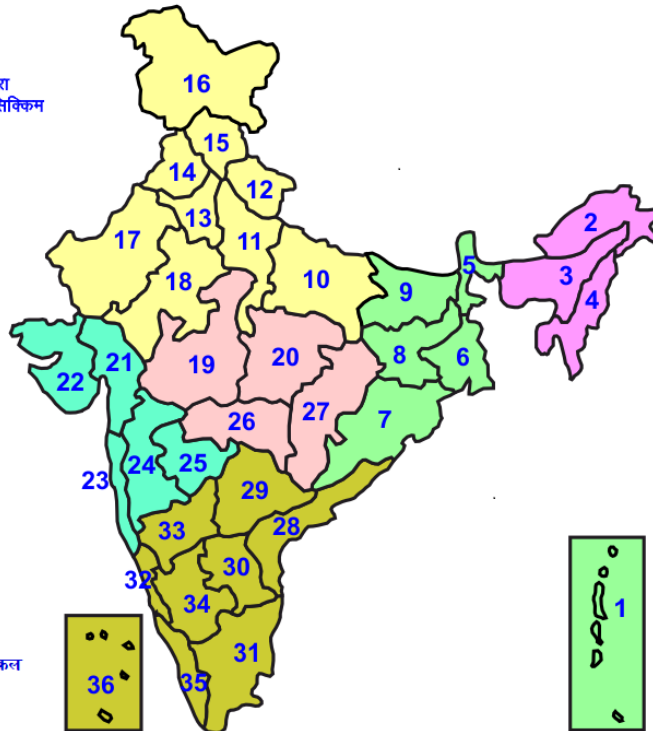
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(Circle as the National flag 1971)

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 एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एंवम् यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् 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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