



Friday 09 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ The monsoon trough runs south of its normal position.
- ◆ A **Low Pressure Area** lies over Westcentral Bay of Bengal. It is very likely to become more marked over Westcentral and adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts during next 36 hours.
- ◆ A shear zone runs roughly along Lat.12°N over south Peninsular India in middle tropospheric levels.
- ◆ A cyclonic circulation lies over Coastal Karnataka & neighbourhood in lower tropospheric levels.
- ◆ Under the influence of the above systems:
 - o Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Tamil Nadu Puducherry & Karaikal on 09th; Rayalaseema & South Interior Karnataka during 09th-10th; Coastal Andhra Pradesh & Yanam, Telangana and North Interior Karnataka during 09th-11th and over Coastal Karnataka and Kerala & Mahe during next 5 days. Isolated **very heavy rainfall** also likely over Coastal Karnataka and North Interior Karnataka on 09th and over Coastal Andhra Pradesh & Yanam & Telangana during 09th-10th September, 2022. Isolated **extremely heavy rainfall** also likely over Coastal Andhra Pradesh & Yanam on 09th September, 2022.
 - o Fairly widespread/widespread rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Vidarbha and Marathwada during 09th-11th; Chhattisgarh & Gujarat Region during 09th-13th; Gangetic West Bengal and Saurashtra & Kutch during 10th-12th; Bihar & East Madhya Pradesh on 12th & 13th; Jharkhand & Sub-Himalayan West Bengal during 11th-13th and over Odisha, Konkan & Goa and Madhya Maharashtra during next 5 days. Isolated **very heavy rainfall** also likely over Odisha during 09th-11th; Chhattisgarh, Gangetic West Bengal and Gujarat Region on 12th and over Madhya Maharashtra and Konkan & Goa during next 5 days.
 - o Fairly widespread/widespread rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Assam & Meghalaya during 10th-13th and over Nagaland, Manipur, Mizoram & Tripura during next 5 days.
 - o Fairly widespread to widespread light/moderate rainfall with **isolated heavy falls and thunderstorm/lightning** very likely over Uttarakhand on 10th & 11th September, 2022.
 - o **Subdued rainfall** activity likely to continue over most parts of Northwest India during next 5 days.

Main Weather Observations

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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- ◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over **Konkan & Goa and Coastal Karnataka**; at many places over East Madhya Pradesh, Chhattisgarh, Odisha, South interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam and Telangana; at a few places over East Uttar Pradesh, West Madhya Pradesh, Gujarat Region, North Interior Karnataka and Kerala & Mahe and at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Saurashtra & Kutch, Vidarbha, Marathwada, Tamilnadu, Puducherry & Karaikal, Lakshadweep and Gangetic West Bengal.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more):** Daman-8; Sholapur and Kakinada-4; Gopalpur, Parbhani and Mandla-3.
- ◆ **Heavy Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): heavy rainfall** at isolated places over Gujarat Region (Daman).
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Gujarat, Konkan & Goa, Marathwada, East Uttar Pradesh, Chhattisgarh, Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Gujarat Region, Bihar, Jharkhand, Odisha and Madhya Maharashtra.
- ◆ **Minimum Temperature Departures (as on 08-09-2022):** Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over West Uttar Pradesh; at a few places over Bihar, Sub-Himalayan West Bengal & Sikkim; at isolated places over East Rajasthan and Madhya Pradesh; **above normal (1.6°C to 3.0°C)** at most places over Punjab, Gujarat Region; at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, West Rajasthan, Gangetic West Bengal, Odisha, Assam & Meghalaya; at a few places over Vidarbha, Madhya Maharashtra, South Interior Karnataka and at isolated places over Uttarakhand and Saurashtra & Kutch. They were **below normal (-1.6°C to -3.0°C)** at a few places over Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and near normal over rest parts of the country. **Yesterday, the lowest minimum temperature of 21.0°C** was reported at Betul (**West Madhya Pradesh**) over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 08-09-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Gujarat Region and Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at most places over West Uttar Pradesh, Rajasthan, East Madhya Pradesh, Saurashtra & Kutch and Nagaland, Manipur, Mizoram & Tripura; at many places over East Uttar Pradesh, Himachal Pradesh, West Madhya Pradesh, Vidarbha, Jharkhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at a few places over Odisha. They were **appreciably below normal (-3.1°C to -5.0°C)** at most places over Rayalaseema; **below normal (-1.6°C to -3.0°C)** at most places over Coastal Karnataka and Coastal Andhra Pradesh & Yanam; at many places over South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Arunachal Pradesh; at a few places over Andaman & Nicobar Islands, Telangana and Kerala & Mahe and at isolated places over North Interior Karnataka and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 40.2°C** was reported at **Churu (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, Udaipur, Indore, Akola, Ramagundam, Vishakhapatnam and thence eastwards to centre of **Low Pressure Area** over Westcentral Bay of Bengal.
- ◆ The **Low Pressure Area** over Westcentral Bay of Bengal with the associated cyclonic circulation extending upto mid-tropospheric level persists. It is very likely to become more marked over Westcentral and adjoining Northwest Bay of Bengal off north Andhra Pradesh-south Odisha coasts during next 36 hours.
- ◆ The trough from south Konkan to the **Low Pressure Area** over Westcentral Bay of Bengal across North Interior Karnataka, south Telangana & north Coastal Andhra Pradesh at 0.9 km above mean sea level persists.
- ◆ The shear zone roughly along Lat.12°N over south peninsular India between 4.5 km & 7.6 km above mean sea level persists.
- ◆ The cyclonic circulation over Coastal Karnataka & neighbourhood between 1.5 km & 3.1 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 14th 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 14th September- 16th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over West Coast, Central & East India. Isolated heavy to very heavy falls also likely Gujarat Region, Tripura & Meghalaya.
- ◆ Isolated to scattered light/moderate rainfall activity likely over south peninsular & Northeast India.
- ◆ Increased rainfall activity likely over plains of Northwest India.

Weather Warning during next 5 days *

09 Sept (Day 1): ♦ Heavy to Very Heavy rainfall with extremely heavy falls at isolated places very likely over Coastal Andhra Pradesh & Yanam; **Heavy to very heavy rainfall** at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Telangana, Coastal & North Interior Karnataka; **Heavy rainfall** at isolated places over Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal 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, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, 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 east-central, central and adjoining south Bay of Bengal, south Andaman Sea; **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Kerala, Karnataka, south Maharashtra coasts, north Andaman Sea and adjoining east-central Bay of Bengal, west-central and adjoining northwest bay of Bengal, along and off coastal Andhra Pradesh and south coastal Odisha. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Lakshadweep area, 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, east-central and adjoining west-central Bay of Bengal. Fishermen are advised not to venture into these seas.

10 Sept (Day 2): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa; **at isolated places** over Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Rayalaseema, Karnataka & 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, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.

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

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

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Telangana; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, 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 over along and off north Karnataka, Goa, Maharashtra, south Gujarat coasts, adjoining east-central and northeast Arabian Sea, central and adjoining northwest and northeast Bay of Bengal, northwest and adjoining west-central Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. **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, south Tamil Nadu coast, off south Sri Lanka coast, west-central and adjoining northwest and adjoining northeast Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

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

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

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

13 Sept (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Konkan & Goa, Gujarat Region, Madhya Maharashtra and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

♦ **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Maharashtra, Goa, south Gujarat coasts, adjoining northeast and east-central Arabian Sea, northwest and adjoining west-central Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. **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, south Tamil Nadu coast, off south Sri Lanka coast, west-central and adjoining northwest Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. 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)
09-September-2022

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

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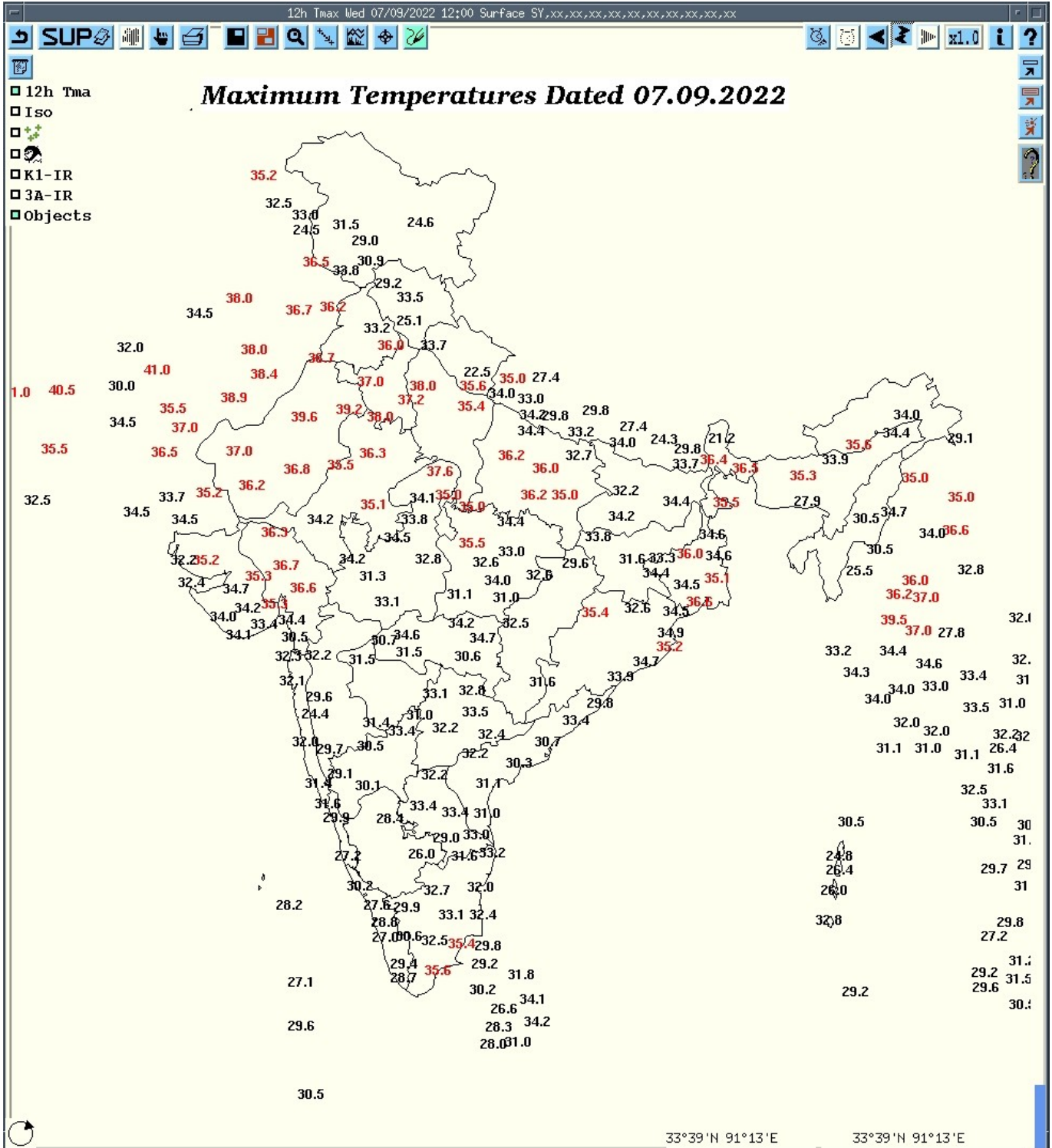
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Fig. 2: Maximum Temperature during past 24 hours

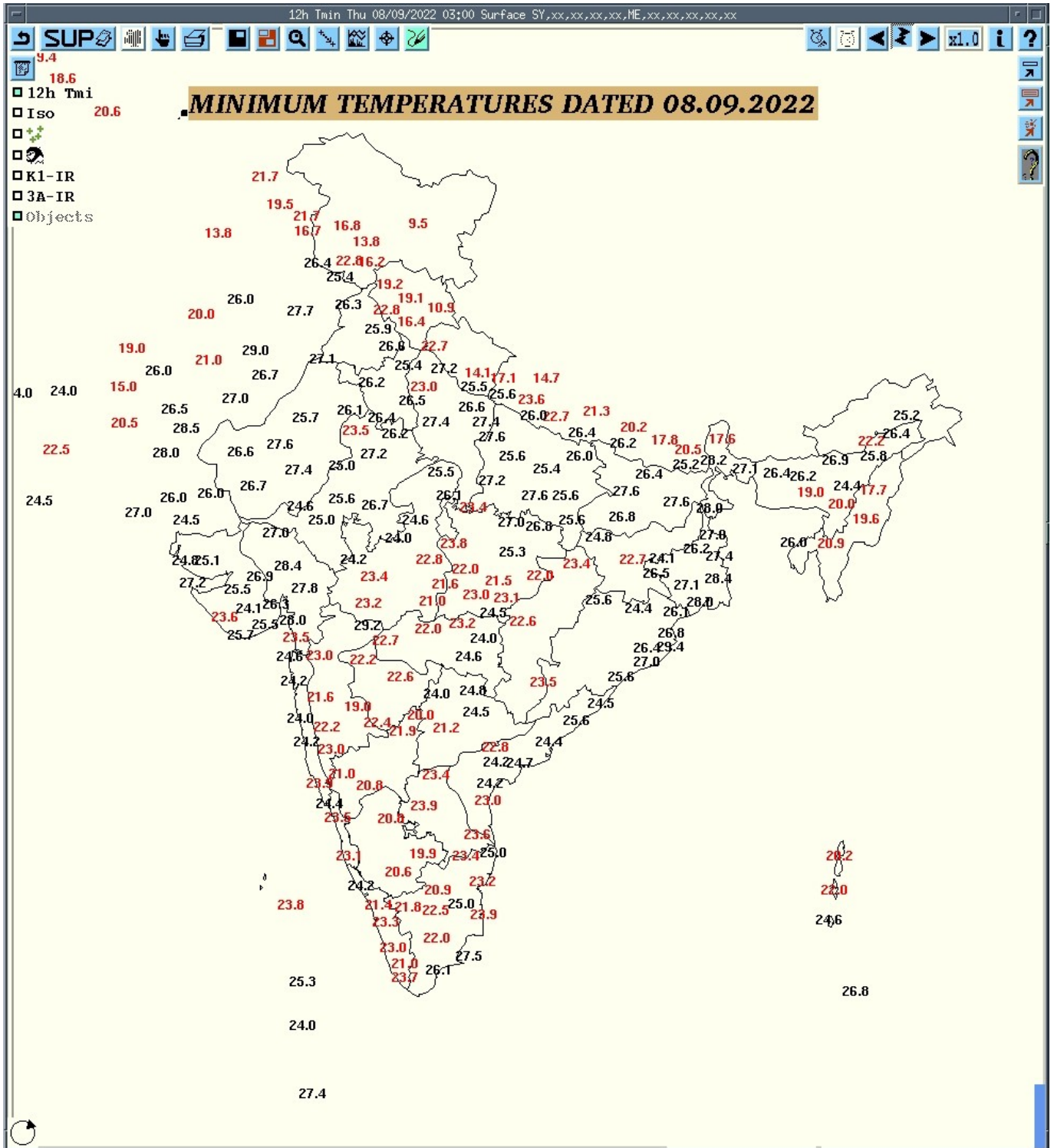


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(Created by the MetInfo app 10/2022)



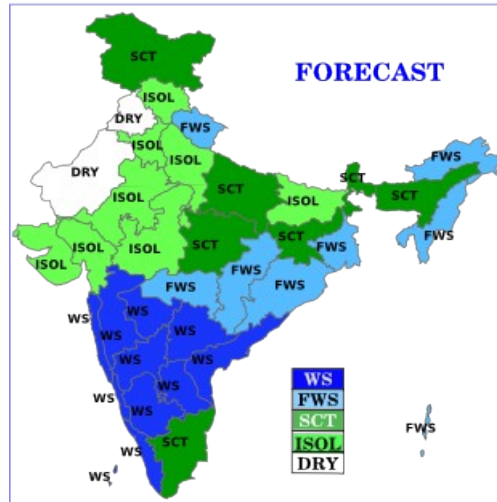
Fig. 3: Minimum Temperature during past 24 hours



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09 Sept (Day 1): ♦ Heavy to Very Heavy rainfall with extremely heavy falls at isolated places very likely over Coastal Andhra Pradesh & Yanam; **Heavy to very heavy rainfall** at isolated places over Odisha, Madhya Maharashtra, Konkan & Goa, Telangana, Coastal & North Interior Karnataka; **Heavy rainfall** at isolated places over Chhattisgarh, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, Marathwada, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal 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, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region, 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 east-central, central and adjoining south Bay of Bengal, south Andaman Sea; **Squally weather** (wind speed 45-55 kmph gusting to 65 kmph) is very likely over along and off Kerala, Karnataka, south Maharashtra coasts, north Andaman Sea and adjoining east-central Bay of Bengal, west-central and adjoining northwest bay of Bengal, along and off coastal Andhra Pradesh and south coastal Odisha. **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Lakshadweep area, 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, east-central and adjoining west-central Bay of Bengal. Fishermen are advised not to venture into these seas.

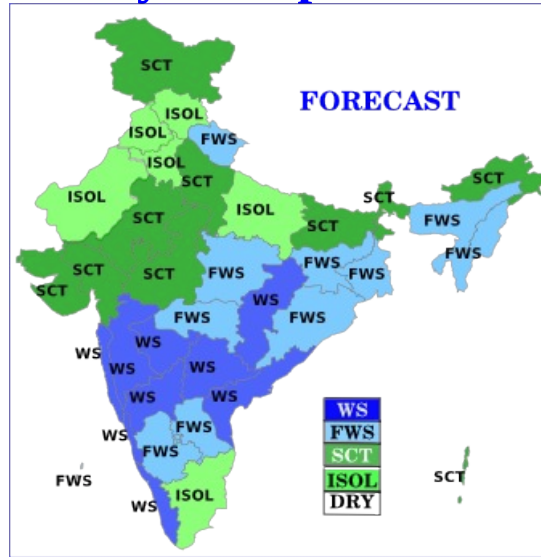
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Saturday 10 September 2022



10 Sept (Day 2): ♦ **Heavy to very heavy rainfall** at a few places likely over Konkan & Goa; **at isolated places** over Odisha, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam and Telangana and **heavy rainfall** at isolated places over Uttarakhand, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Marathwada, Rayalaseema, Karnataka & 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, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat Region, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.

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

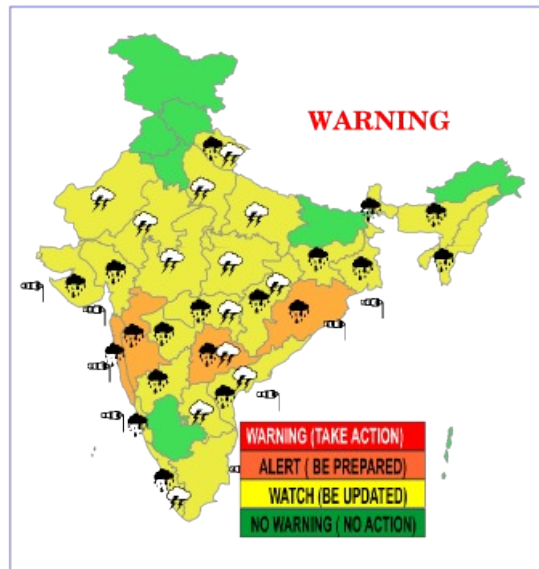
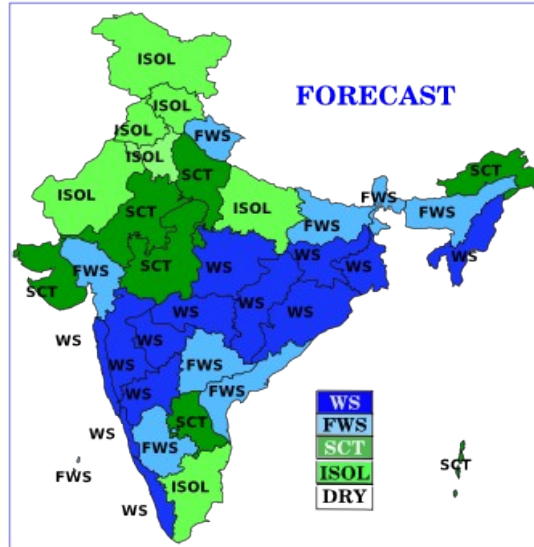
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Sunday 11 September 2022



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

♦ **Thunderstorm accompanied with lightning & gusty winds (speed 40-50 kmph)** at isolated places very likely over Telangana; **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, 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 over along and off north Karnataka, Goa, Maharashtra, south Gujarat coasts, adjoining east-central and northeast Arabian Sea, central and adjoining northwest and northeast Bay of Bengal, northwest and adjoining west-central Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. **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, south Tamil Nadu coast, off south Sri Lanka coast, west-central and adjoining northwest and adjoining northeast Bay of Bengal, along and off north Andhra Pradesh, Odisha, West Bengal coasts. Fishermen are advised not to venture into these seas.

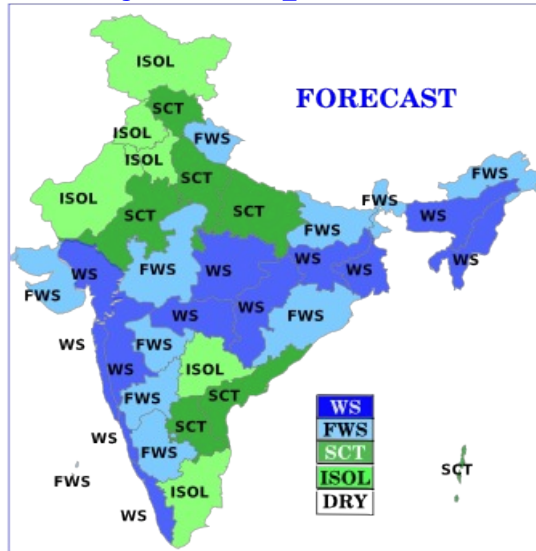
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Continued on the Next page 1077)

Monday 12 September 2022



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

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

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

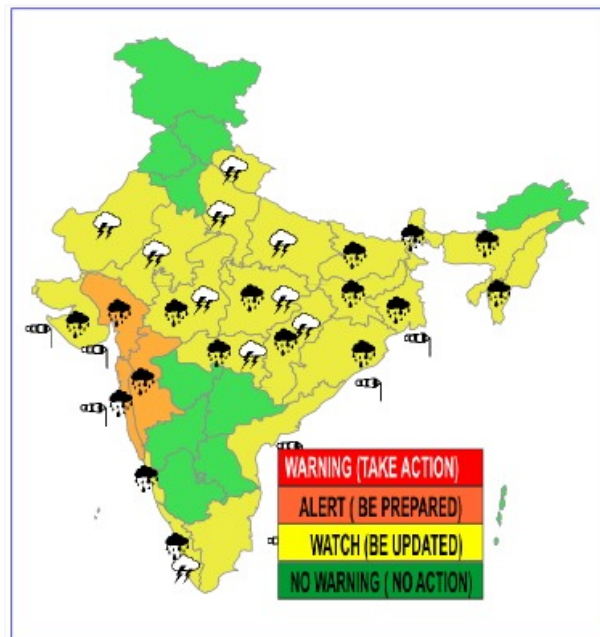
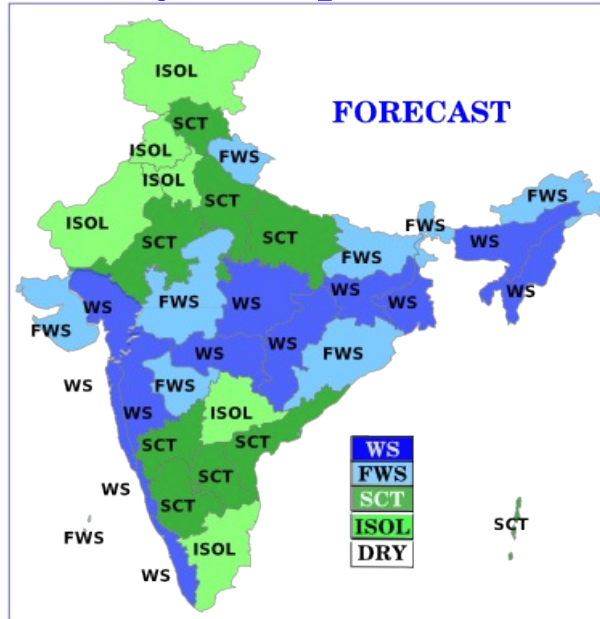
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(Copies to the Media upto 1070)

Tuesday 13 September 2022



13 Sept (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Konkan & Goa, Gujarat Region, Madhya Maharashtra and **heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Bihar, Jharkhand, West Bengal & Sikkim, Chhattisgarh, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Karnataka and Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning** at isolated places over Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh and Kerala & Mahe.

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

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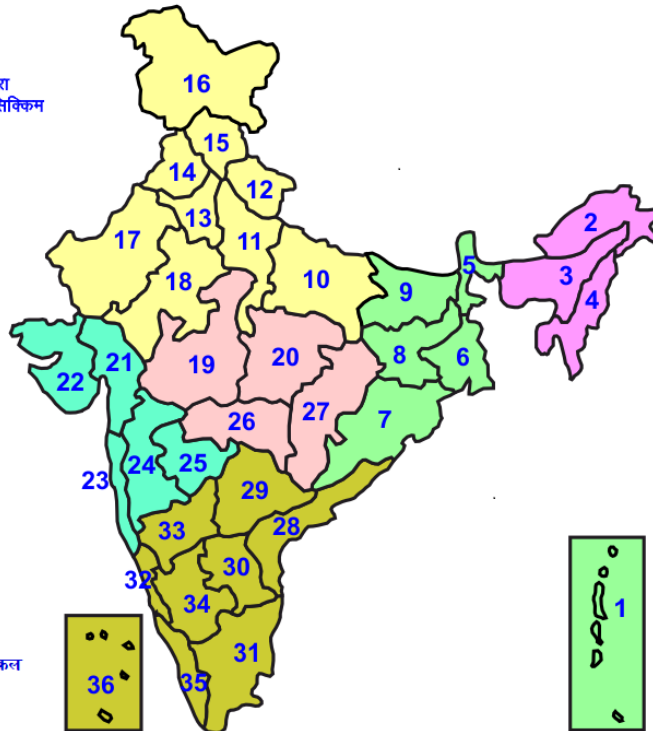
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(Circle as the National flag 497)

LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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(Copies of the Notices (1977))

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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(Created by the Meteorologist)