

Wednesday, September 20, 2023 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Significant Weather features:

- ❖ The **Low Pressure Area** over northwest Bay of Bengal off West Bengal-Odisha coast now lies over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts and the associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to move west-northwestwards across North Odisha & South Jharkhand during next 2 days.
- ❖ A cyclonic circulation lies over southwest Rajasthan and extends upto middle tropospheric levels.
- The Monsoon Trough lies south to its normal position and passes through Jaisalmer, Kota, Guna, Siddhi, Daltonganj and the centre of Low Pressure Area over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts and thence southeastwards to Eastcentral Bay of Bengal.

Weather Forecast and Warnings:

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Saurashtra & Kutch on 20th September.

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Gangetic West Bengal, Odisha, Jharkhand, Sub-Himalayan West Bengal & Sikkim during 20th-22nd and Bihar during 21st-23rd September.

Isolated very heavy rainfall very likely over Odisha during 20th-21st September.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm with isolated **heavy rainfall** activity very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh during 20th-23rd September.

Isolated very heavy rainfall very likely over Nagaland, Manipur on 20th & 21st and over Arunachal Pradesh, Assam, Meghalaya on 21st & 22nd September.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Chhattisgarh during 20th-22nd; East Madhya Pradesh during 21st-23rd; Vidarbha and West Madhya Pradesh on 22nd & 23rd September.

South India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Coastal Andhra Pradesh on 20th September.

For more details kindly refer:

https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php





Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Jharkhand, Odisha, Gujarat State, Coastal & North Interior Karnataka; at a few places over Assam & Meghalaya, Punjab, Konkan & Goa and South Interior Karnataka and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, East Uttar Pradesh, Uttarakhand, Himachal Pradesh, Rajasthan, West Madhya Pradesh, Madhya Maharashtra and Tamil Nadu, Puducherry & Karaikal.
- ❖ Significant rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday) (in cm): Assam & Meghalaya: Guwahati-1; Nagaland, Manipur, Mizoram & Tripura: Imphal and Agartala -1 each; Odisha: Puri-2; Bhubaneshwar-1; East Uttar Pradesh: Kanpur2; Lucknow-1; Uttarakhand: Mukteshwar-1; West Madhya Pradesh: Khandwa-4; Gujarat Region: Surat-2; Bulsar, Vallabh Vidhya Nagar and Gandhinagar-1 each; Saurashtra & Kutch: Bhaunagar, Surenderanagar, Rajkot and Diu-1 each; Konkan & Goa: Harnai-1; Madhya Maharashtra: Mahabaleshwar-1; South Interior Karnataka: Honavar and conoor-1 each; Tamil Nadu, Puducherry & Karaikal: K. Paramathy-2.
- ❖ Minimum Temperature Departures (as on 19-09-2023): Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; above normal (1.6°C to 3.0°C) at most places over Haryana-Chandigarh-Delhi; at many places over Punjab, Himachal Pradesh: at a few places over Uttarakhand, Coastal Andhra Pradesh & Yanam and at isolated places over Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Telangana, Rayalaseema, Madhya Maharashtra, Chhattisgarh, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa. They were below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 16.6°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 19-09-2023): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh and at isolated places over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh and Marathwada; above normal (1.6°C to 3.0°C) at many places over East Uttar Pradesh, East Madhya Pradesh and Telangana; at a few places over Odisha, Coastal Andhra Pradesh & Yanam, Vidarbha and North Interior Karnataka and at isolated places over West Uttar Pradesh, Bihar, Haryana-Chandigarh-Delhi, West Madhya Pradesh, Jharkhand, Konkan & Goa, South Interior Karnataka and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over West Rajasthan; at a few places over East Rajasthan and Gujarat State; below normal (-1.6°C to -3.0°C) at a few places over Gangetic West Bengal and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra and Punjab and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.0°C was reported at K. Paramathy (Tamil Nadu).





Meteorological Analysis (Based on 0530 hours IST)

- ❖ The Low Pressure Area over northwest Bay of Bengal off West Bengal-Odisha coast now lies over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts and the associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. It is likely to move west-northwestwards across North Odisha & South Jharkhand during next 2 days.
- ❖ The cyclonic circulation over Southwest Rajasthan & neighbourhood extending upto 7.6 km above mean sea level persists.
- ❖ The Monsoon Trough at mean sea level now passes through Jaisalmer, Kota, Guna, Siddhi, Daltonganj and the centre of Low Pressure Area over northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts and thence southeastwards to Eastcentral Bay of Bengal.

Weather Forecast for next 5 days (Upto 0830 hours IST of 25th September, 2023)

- ❖ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table-1.
- ❖ No significant change in maximum temperatures likely over most parts of country during next 5 days.

Weather Outlook for subsequent 2 days

- Scattered to fairly widespread light/moderate rainfall likely over parts of east, northeast & central India, Uttarakhand, Uttar Pradesh, Karnataka, Telangana, along the west coasts and islands.
- ❖ Isolated to scattered rainfall likely over rest parts of the country.



Table-1

	7 Days Rainfall Forecast							
S.		20-	21-	22-	23-	24-	25-	26-
No.	Subdivision	Sep						
140.		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	FWS	FWS	WS	WS	WS
2	ARUNACHAL PRADESH	FWS	WS	WS	WS	FWS	FWS	FWS
3	ASSAM & MEGHALAYA	WS	WS	WS	WS	FWS	FWS	FWS
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	WS	WS	WS	FWS	FWS	FWS
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	WS						
6	GANGETIC WEST BENGAL	WS	WS	WS	FWS	FWS	SCT	SCT
7	ODISHA	WS	WS	FWS	SCT	SCT	SCT	SCT
8	JHARKHAND	WS	WS	WS	FWS	FWS	FWS	FWS
9	BIHAR	SCT	WS	WS	FWS	FWS	SCT	SCT
10	EAST UTTAR PRADESH	SCT	SCT	FWS	SCT	SCT	ISOL	ISOL
11	WEST UTTAR PRADESH	ISOL	ISOL	SCT	SCT	SCT	ISOL	ISOL
12	UTTARAKHAND	FWS	SCT	SCT	SCT	SCT	SCT	SCT
13	HARYANA CHANDIGARH & DELHI	ISOL	ISOL	ISOL	SCT	ISOL	ISOL	ISOL
14	PUNJAB	ISOL	ISOL	ISOL	SCT	SCT	ISOL	ISOL
15	HIMACHAL PRADESH	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	ISOL	ISOL	ISOL	ISOL	SCT	ISOL	ISOL
17	WEST RAJASTHAN	ISOL						
18	EAST RAJASTHAN	ISOL	SCT	SCT	SCT	SCT	SCT	SCT
19	WEST MADHYA PRADESH	SCT	SCT	FWS	FWS	FWS	FWS	FWS
20	EAST MADHYA PRADESH	FWS						
21	GUJARAT REGION	FWS	SCT	ISOL	SCT	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	FWS	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT
25	MARATHAWADA	ISOL	SCT	FWS	SCT	SCT	SCT	SCT
26	VIDARBHA	SCT	FWS	FWS	FWS	SCT	SCT	SCT
27	CHHATTISGARH	FWS	WS	FWS	FWS	SCT	SCT	SCT
28	COASTAL ANDHRA PRADESH & YANAM	FWS						
29	TELANGANA	SCT	FWS	FWS	FWS	SCT	SCT	SCT
30	RAYALASEEMA	SCT						
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT						
32	COASTAL KARNATAKA	FWS						
33	NORTH INTERIOR KARNATAKA	SCT						
34	SOUTH INTERIOR KARNATAKA	FWS						
35	KERALA & MAHE	WS	FWS	FWS	FWS	FWS	FWS	FWS
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT

Legend	Category	% Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0



Fig. 1: Maximum Temperatures Dated 19.09.2023

Fig. 2: Departure of Maximum Temp. Dated 19.09.2023

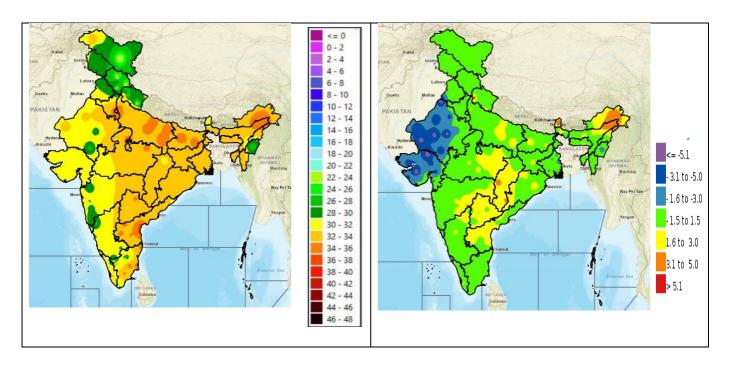


Fig. 3: Minimum Temperatures Dated 19.09.2023

Fig. 4: Departure of Minimum Temp. Dated 19.09.2023

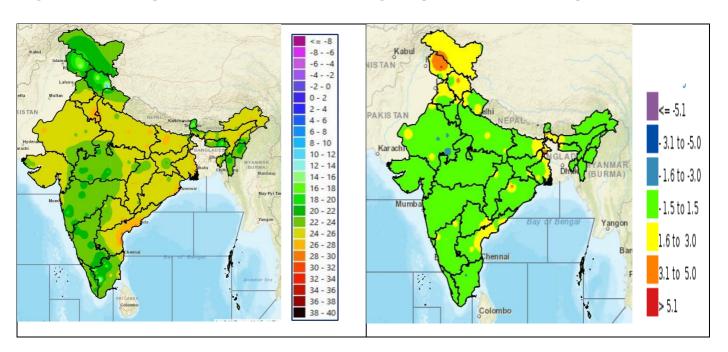
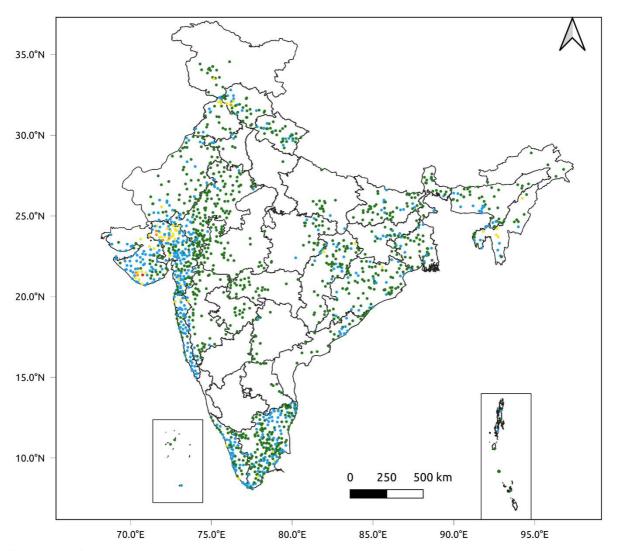




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



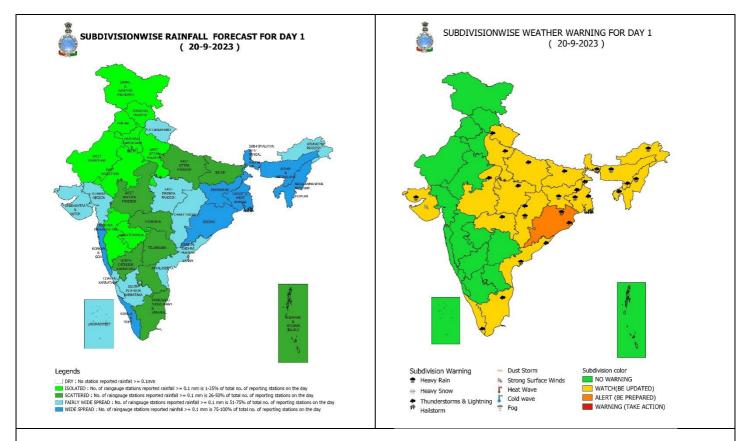
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 18-9-2023 to 0830 IST of 19-9-2023



Legends

- Very Light to Light Rainfall (0.1 15.5 mm)
- Moderate Rainfall (15.6 64.4 mm)
- Heavy Rainfall (64.5 115.5 mm)
- Very Heavy Rainfall (115.6 204.4 mm)
- Extremely Heavy Rainfall (>=204.5 mm)

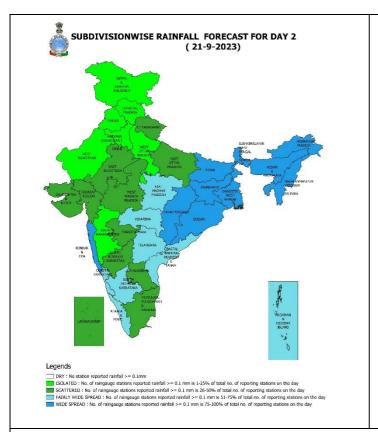


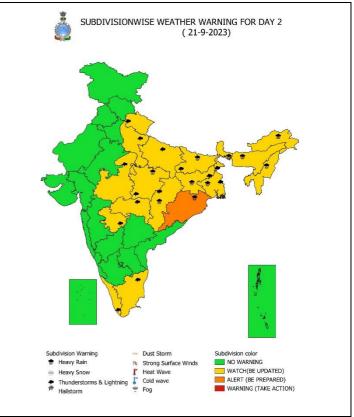


20 September (Day 1): -

- ❖ Heavy to very heavy rainfall very likely at isolated places over Odisha, Assam & Meghalaya, Nagaland, Manipur and heavy rainfall at isolated places over Chhattisgarh, West Bengal & Sikkim, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam.
- Thunderstorm with lightning & gusty winds (speed 30-40 kmph) very likely at isolated places over Kerala & Mahe and with lightning at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral & Eastcentral Arabian Sea and Squally weather (wind speed reaching 40-45 kmph gusting to 55 kmph) over Northeast Arabian Sea along & off Gujarat coast, Westcentral & northwest Bay of Bengal along & off Odisha & Andhra Pradesh coasts. Fishermen are advised not to venture into these areas.



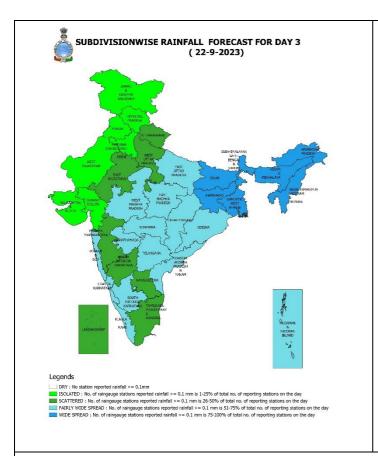


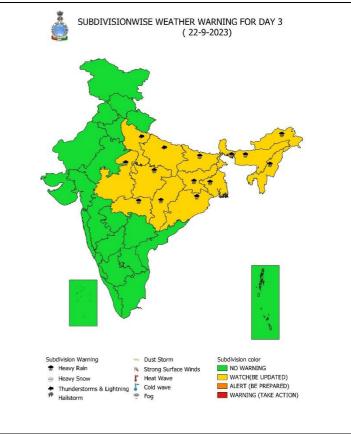


21 September (Day 2): -

- ❖ Heavy to very heavy rainfall very likely at isolated places over Sub-Himalaya West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur and heavy rainfall at isolated places over East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Bihar, Jharkhand.
- ❖ Thunderstorm with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.



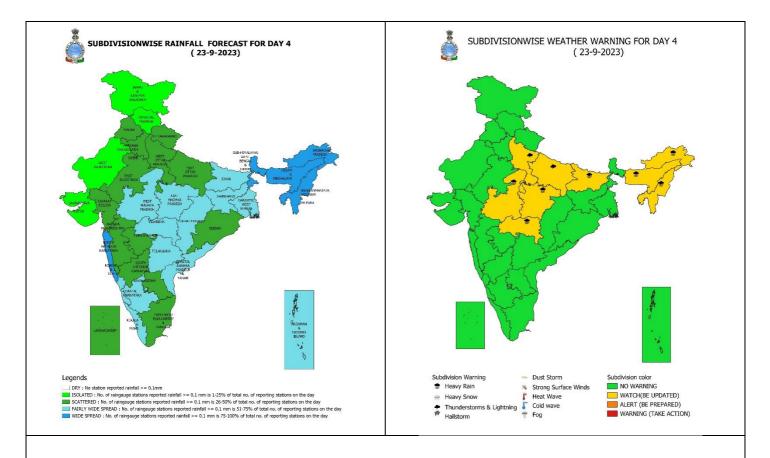




22 September (Day 3): -

- ❖ Heavy to very heavy rainfall very likely at isolated places Arunachal Pradesh, Assam & Meghalaya and heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Nagaland, Manipur.
- ❖ Thunderstorm with lightning very likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

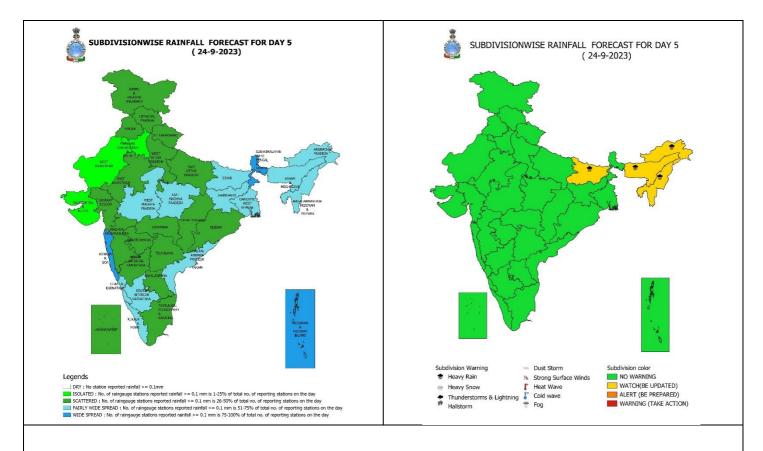




23 September (Day 4): -

- ❖ **Heavy rainfall** at isolated places over Madhya Pradesh, Vidarbha, Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur.
- ❖ Thunderstorm with lightning likely at isolated places over Uttarakhand, Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal.
- ❖ **Squally wind speed of 45-55 kmph gusting to 65 kmph** likely over Southwest and adjoining Westcentral Arabian Sea. **Fishermen are advised not to venture into these areas.**



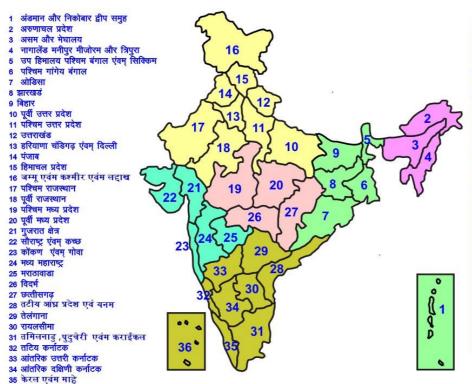


24 September (Day 5): -

- ❖ **Heavy rainfall** at isolated places over Bihar, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur.
- ❖ Thunderstorm with lightning likely at isolated places over Madhya Pradesh, Madhya Maharashtra, Marathwada, Tamil Nadu, Puducherry & Karaikal.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.



LEGENDS



- 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 Rajsthan
- 18. East Rajasthan 19. West Madhya Pradesh 20. East Madhya Pradesh
- 21. Gujarat 22. Saurashtra

- 23. Konkan & Goa 24. Madhya Maharashtra 25. Marathawada

- 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 Widespred (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



36 लक्षद्वीप

Heavy Rain

Heavy Snow



Thunderstorm



Dust Storm

Squall/ Hail



Strong Winds



Visibility



Cyclone





Frost



Cold Wave Heat Wave



Sea State



