

Tuesday, September 26, 2023 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

❖ The line of withdrawal of Southwest Monsoon passes through 28.3°N/72.0°E, Nokhra, Jodhpur, Barmer, 25.7°N/70.3°E.

Significant Weather features:

- A cyclonic circulation lies over Southeast Uttar Pradesh & neighbourhood and a trough runs from this cyclonic circulation to west Assam in lower tropospheric levels.
- Another cyclonic circulation lies over south Chhattisgarh and a trough runs from this cyclonic circulation to south Konkan in middle tropospheric levels.
- A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 29th September. Under its influence a **Low-Pressure Area** is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal during subsequent 24 hours. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.

Weather Forecast and Warnings:

East India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Andaman & Nicobar Islands during 26th-29th September. **Isolated very heavy rainfall very likely over Andaman & Nicobar Islands during 27th-29th September.**

South India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** very likely over Coastal Andhra Pradesh, Telangana, Tamil Nadu on 26th, 28th & 29th; Coastal Karnataka and Kerala on 28th & 29th; North Interior Karnataka, Rayalaseema on 29th and South Interior Karnataka on 28th September.

West India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** very likely over Konkan & Goa, Madhya Maharashtra during 26th-29th and Marathwada, Gujarat Region on 26th September.

No significant weather over rest parts of the country.





Main Weather Observations:

- ❖ Rainfall distribution (from 0830-1730 hours IST of yesterday): at many places over Chhattisgarh, Odisha, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra; at a few places over Jammu-Kashmir, East Rajasthan, Bihar, Jharkhand, West Madhya Pradesh, Gujarat Region, Sub-Himalaya West Bengal & Sikkim, Assam & Meghalaya, Telangana, Kerala & Mahe and at isolated places over Punjab, Himachal Pradesh, Uttarakhand, Gangetic West Bengal, West Rajasthan, Uttar Pradesh, East Madhya Pradesh, Marathwada, Vidarbha, Coastal Andhra Pradesh & Yanam, Karnataka, Tamil Nadu, Puducherry & Karaikal, Andaman & Nicobar Islands.
- ❖ Significant rainfall recorded (from 0830-1730 hours IST of yesterday): (in cm): Khunti and Ratnagiri-4 each; Leparada, Longleng, Saiha, Bardhaman, Mayurbhanj, Kabirdham-3 each; Cooch Behar, Hingoli, Bijapur, Ganjam- 2 each.
- ❖ Minimum Temperature Departures (as on 25-09-2023): Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Saurashtra & Kutch; at a few places over Gujarat Region, West Rajasthan; at isolated places over Punjab, East Rajasthan, Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Odisha, Bihar, Assam & Meghalaya, North Interior Karnataka. They were below normal (-1.6°C to -3.0°C) at isolated places over Sub-Himalaya West Bengal & Sikkim, Chhattisgarh, Marathwada, Madhya Maharashtra, Kerala & Mahe and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.2°C was reported at Pachmarhi (West Madhya Pradesh) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 25-09-2023): Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Assam & Meghalaya, Himachal Pradesh; at isolated places over Arunachal Pradesh, Uttarakhand. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; below normal at a few places over Telangana, Vidarbha, Bihar and at isolated places over North Rajasthan, East Uttar Pradesh, North Interior Karnataka, West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.8°C was reported at Jaisalmer (West Rajasthan).



Meteorological Analysis (Based on 0530 hours IST)

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through 28.3°N/72.0°E, Nokhra, Jodhpur, Barmer, 25.7°N/70.3°E.
- ❖ The **cyclonic circulation** over southeast Uttar Pradesh & neighbourhood extending upto 3.1 km above mean sea level persists.
- ❖ The east-west **trough** from cyclonic circulation over southeast Uttar Pradesh to West Assam across Bihar and West Bengal at 1.5 km above mean sea level persists.
- ❖ The **trough** from southeast Uttar Pradesh to Telangana across Chhattisgarh extending upto 3.1 km above mean sea level persists.
- ❖ The **cyclonic circulation** over south Chhattisgarh & neighbourhood between 4.5 & 5.8 km above mean sea level persists.
- ❖ The **trough** from cyclonic circulation over south Chhattisgarh to south Konkan between 4.5 & 5.8 km above mean sea level persists.
- ❖ The **cyclonic circulation** over north coastal Tamil Nadu & neighbourhood between 4.5 & 5.8 km above mean sea level persists.
- ❖ A cyclonic circulation is likely to form over north Andaman Sea & neighbourhood around 29th September. Under its influence a Low-Pressure Area is likely to form over north Andaman Sea & adjoining Eastcentral Bay of Bengal during subsequent 24 hours. Thereafter, it is likely to move west-northwestwards with possibility of gradual intensification.
- ❖ The **Western Disturbance** as a trough in westerlies in mid tropospheric levels with its axis at 5.8 km above mean sea level roughly along Long. 71°E to the north of Lat. 32°N persists.

Weather Forecast for next 5 days (Upto 0830 hours IST of 30th 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

- ❖ fairly widespread to widespread light/moderate rainfall likely over parts of east & adjoining central and northeast India.
- Dry weather likely to prevail over rest parts of the country except isolated rainfall likely over south peninsular India.



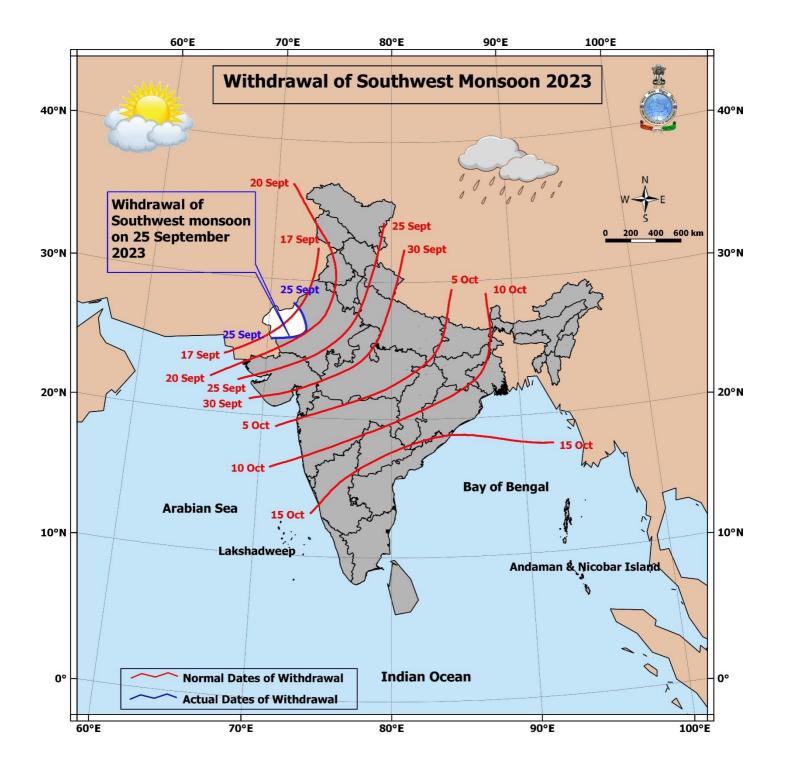






Table-1

| | 7 Days Rainfall Forecast | | | | | | | |
|-----------|--------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| S. No. | Subdivision | 26- Sep Day 1 | 27- Sep Day 2 | 28- Sep Day 3 | 29- Sep Day 4 | 30- Sep Day 5 | 01- Oct Day 6 | 02- Oct Day 7 |
| 1 | ANDAMAN & NICOBAR ISLANDS | WS |
| 2 | ARUNACHAL PRADESH | SCT |
| 3 | ASSAM & MEGHALAYA | SCT | SCT | SCT | SCT | SCT | FWS | FWS |
| 4 | NAGALAND, MANIPUR, MIZORAM & TRIPURA | SCT | SCT | FWS | FWS | FWS | FWS | FWS |
| 5 | SUB-HIMALAYAN WEST BENGAL & SIKKIM | SCT |
| 6 | GANGETIC WEST BENGAL | SCT | ISOL | ISOL | SCT | SCT | FWS | FWS |
| 7 | ODISHA | SCT | ISOL | ISOL | SCT | FWS | WS | WS |
| 8 | JHARKHAND | SCT | ISOL | ISOL | SCT | SCT | FWS | FWS |
| 9 | BIHAR | SCT | SCT | SCT | SCT | SCT | FWS | FWS |
| 10 | EAST UTTAR PRADESH | ISOL | ISOL | SCT | SCT | SCT | SCT | SCT |
| 11 | WEST UTTAR PRADESH | ISOL |
| 12 | UTTARAKHAND | ISOL |
| 13 | HARYANA CHANDIGARH & DELHI | DRY |
| 14 | PUNJAB | DRY |
| 15 | HIMACHAL PRADESH | DRY |
| 16 | JAMMU & KASHMIR AND LADAKH | DRY |
| 17 | WEST RAJASTHAN | ISOL | DRY | DRY | DRY | DRY | DRY | DRY |
| 18 | EAST RAJASTHAN | SCT | ISOL | ISOL | ISOL | DRY | DRY | DRY |
| 19 | WEST MADHYA PRADESH | SCT | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 20 | EAST MADHYA PRADESH | ISOL | SCT | SCT | SCT | SCT | FWS | FWS |
| 21 | GUJARAT REGION | ISOL |
| 22 | SAURASHTRA & KUTCH | ISOL |
| 23 | KONKAN & GOA | WS |
| 24 | MADHYA MAHARASHTRA | WS | WS | FWS | SCT | SCT | SCT | SCT |
| 25 | MARATHAWADA | WS | WS | FWS | SCT | ISOL | ISOL | ISOL |
| 26 | VIDARBHA | SCT | SCT | FWS | FWS | SCT | SCT | SCT |
| 27 | CHHATTISGARH | FWS |
| 28 | COASTAL ANDHRA PRADESH & YANAM | FWS | FWS | FWS | FWS | SCT | SCT | SCT |
| 29 | TELANGANA | FWS | FWS | FWS | FWS | FWS | SCT | SCT |
| 30 | RAYALASEEMA | SCT |
| 31 | TAMILNADU PUDUCHERRY & KARAIKAL | ISOL | ISOL | SCT | SCT | ISOL | ISOL | ISOL |
| 32 | COASTAL KARNATAKA | WS |
| 33 | NORTH INTERIOR KARNATAKA | FWS |
| 34 | SOUTH INTERIOR KARNATAKA | FWS |
| 35 | KERALA & MAHE | FWS | WS | WS | WS | WS | WS | WS |
| 36 | LAKSHADWEEP | SCT | FWS | WS | WS | WS | WS | WS |

| 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 25.09.2023

Fig. 2: Departure of Maximum Temp. Dated 25.09.2023

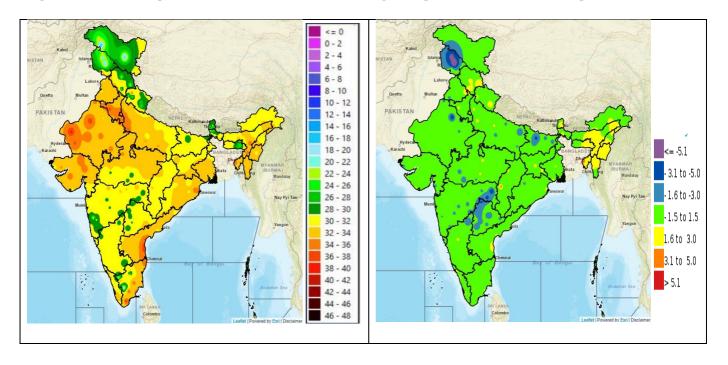


Fig. 3: Minimum Temperatures Dated 25.09.2023

Fig. 4: Departure of Minimum Temp. Dated 25.09.2023

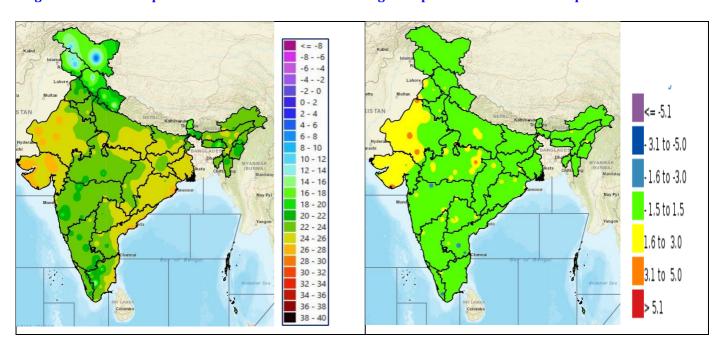
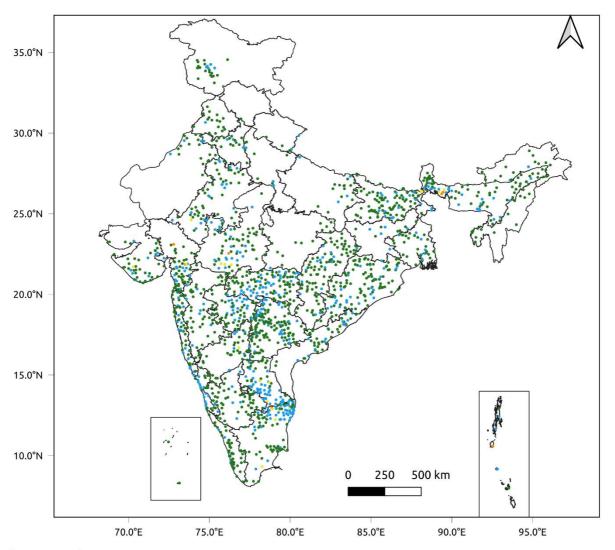




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



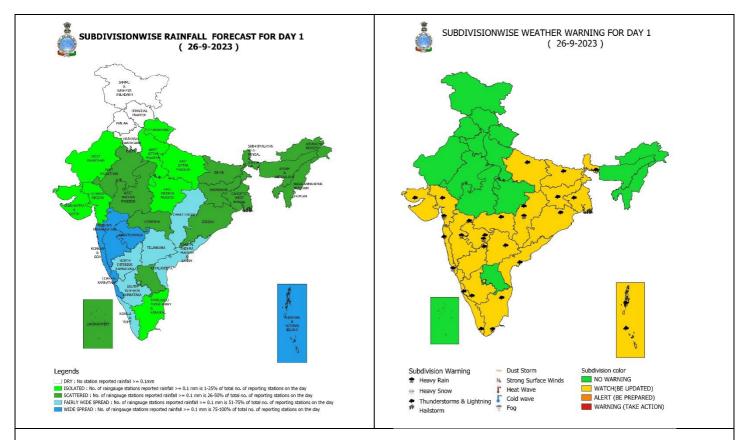
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 24-9-2023 to 0830 IST of 25-9-2023



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)

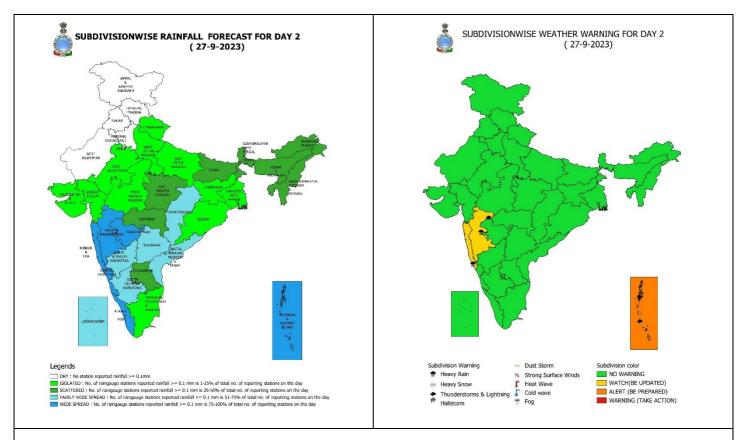




26 September (Day 1): -

- ❖ Heavy rainfall very likely at isolated places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region and Tamil Nadu, Puducherry & Karaikal.
- Thunderstorm with lightning very likely at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, West Bengal & Sikkim, Bihar, Jharkhand, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, 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.

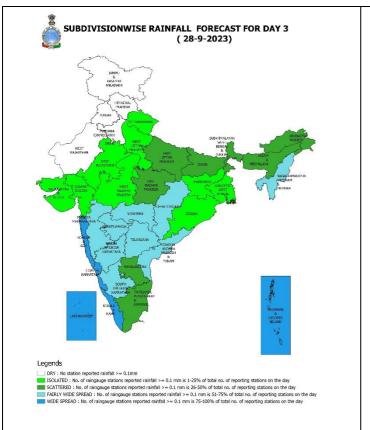


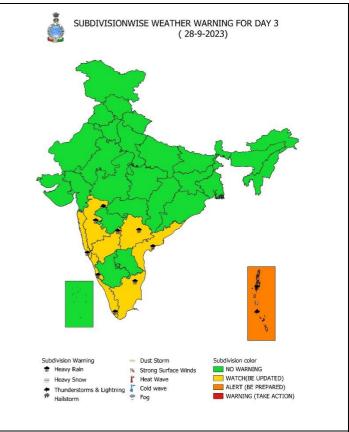


27 September (Day 2): -

- ❖ Heavy to very heavy rainfall very likely at isolated places over Andaman & Nicobar Islands; Heavy rainfall likely at isolated places over Konkan & Goa and Madhya Maharashtra.
- Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe; with lightning likely at isolated places over East Uttar Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada and Telangana.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 40-45 kmph gusting to 55 kmph Likely over southwest & adjoining southeast Bay of Bengal, North Andaman Sea. Fishermen are advised not to venture into these areas.



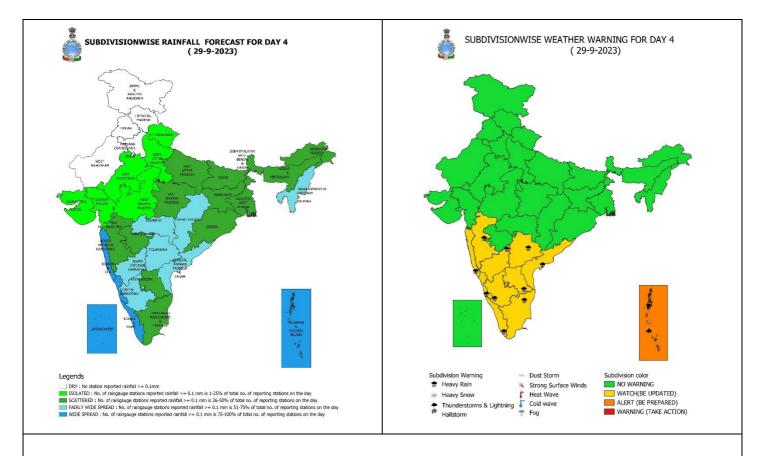




28 September (Day 3): -

- Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands; Heavy rainfall likely at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Coastal & North Interior Karnataka, Tamil Nadu, Kerala & Mahe.
- Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe; with lightning likely at isolated places over East Uttar Pradesh, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 40-45 kmph gusting to 55 kmph likely over south & adjoining Eastcentral Bay of Bengal, Comorin area and Andaman Sea. Fishermen are advised not to venture into these areas.

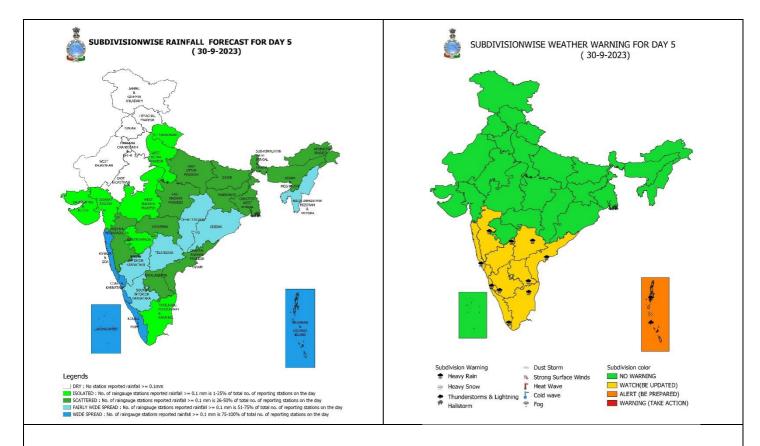




29 September (Day 4): -

- ❖ Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands; Heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu and Kerala & Mahe.
- ❖ Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe; with lightning likely at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 45-55 kmph gusting to 55 kmph likely over South Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.



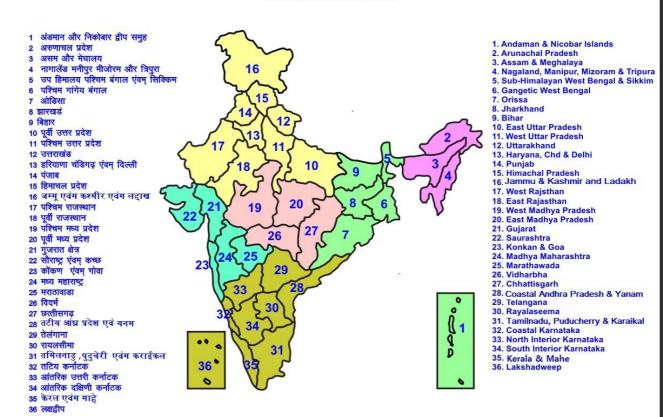


29 September (Day 5): -

- ❖ Heavy to very heavy rainfall likely at isolated places over Andaman & Nicobar Islands; Heavy rainfall at isolated places over Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu and Kerala & Mahe.
- ❖ Thunderstorm with lightning & gusty winds (speed 40-50 kmph) very likely at isolated places over Andaman & Nicobar Islands; with lightning & gusty winds (speed 30-40 kmph) at isolated places over Kerala & Mahe; with lightning likely at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.
- ❖ Squally wind speed of 45-55 kmph gusting to 65 kmph likely over Southwest and adjoining Westcentral Arabian Sea and Squally weather speed of 45-55 kmph gusting to 55 kmph likely over South Bay of Bengal and Andaman Sea. Fishermen are advised not to venture into these areas.



LEGENDS



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 |



Heavy Rain



Heavy Snow



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone





Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State



