

National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, October 12, 2023 Time of Issue: 0800 hours IST (MORNING)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

❖ Conditions are favourable for further withdrawal of Southwest Monsoon from some more parts of Bihar, Jharkhand, Chhattisgarh; some parts of Gangetic West Bengal & Odisha; some more parts of Karnataka and remaining parts of Telangana, Maharashtra and Central Arabia Sea during next 2 days.

Significant Weather features:

- ❖ A cyclonic circulation lies over Rayalaseema & adjoining South Interior Karnataka and a trough runs from this cyclonic circulation to Comorin area in lower tropospheric levels.
- ❖ A fresh Western Disturbance likely to affect Western Himalayan Region from 13th night and plains of northwest India from 14th October, 2023.

Weather warnings for next 5 days:

South India: Light to moderate rainfall at some places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Kerala on 12th & 13th October; over Tamil Nadu on 12th October and reduction thereafter.

Northwest India: Light to moderate rainfall at some to many places very likely over Jammu-Kashmir-Gilgit-Baltistan-Muzaffarabad during from 13th-17th October and over Himachal Pradesh and Punjab during 14th-17th October. Light rainfall at isolated places over Uttarakhand, Haryana, Uttar Pradesh and Rajasthan during 15th-17th October.

Northeast India: Light to moderate rainfall at some places accompanied with thunderstorm & lightning very likely over Nagaland, Manipur, Mizoram & Tripura on 12^{th} October and reduction thereafter.

East India: Light to moderate rainfall at some to many places very likely over Andaman & Nicobar Islands during next 5 days.

No significant weather over rest parts of the country during next 5 days.





Main Weather Observations:

- ❖ Rainfall distribution (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Kerala & Mahe; at a few places over Coastal Karnataka, South Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep and at isolated places over Konkan & Goa, Coastal Andhra Pradesh & Yanam, Bihar, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.
- ❖ Significant rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday): (in cm): Kerala: Laha-6, Pattambi-5, Neeleswaram-3, Vellarikkundu, Kundala Dam, Ranni & Venkurinji-2 each, Peringome, Chemberi, Punalur & Ponmudi-1 each; Karnataka: Mandya-2, Ramanagara, Madikeri & Bangalore-1 each; Tamil Nadu: Chennai, Papparapatty & Kattapakkam-1 each; Coastal Andhra Pradesh: Srikakulam-1; Nagaland: Sakshi-2; Mizoram: Chawnhu-2, Saiha-1; Assam: Kamrup-1; Arunachal Pradesh: Nacho & Yupia-1 each; Sikkim: Mangan-2; Lakshadweep: Minicoy-2.
- ❖ Minimum Temperature Departures (as on 11-10-2023): Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over West Bengal & Sikkim and at isolated places over Odisha, Jharkhand, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Rayalaseema and Assam & Meghalaya. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.8°C was reported at Jalgaon (Marathwada) over the plains of the country.
- ❖ Maximum Temperature Departures (as on 11-10-2023): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Gangetic West Bengal, Odisha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka; above normal (1.6°C to 3.0°C) at most places over Maharashtra, Jharkhand and Telangana; at many places over Uttar Pradesh, Madhya Pradesh, Bihar and Gangetic West Bengal; at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal and at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Assam & Meghalaya and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.5°C was reported at Agra (West Uttar Pradesh).





Meteorological Analysis (Based on 0530 hours IST)

- ❖ The line of withdrawal of Southwest Monsoon continues to pass through 27.0°N/85.0°E, Raxaul, Daltonganj, Kanker, Ramagundam, Bijapur, Vengurla and 16.0°N/70.0°E.
- ❖ Conditions are favourable for further withdrawal of Southwest Monsoon from some more parts of Bihar, Jharkhand, Chhattisgarh; some parts of Gangetic West Bengal & Odisha; some more parts of Karnataka and remaining parts of Telangana, Maharashtra and Central Arabia Sea during next 2 days.
- ❖ The Western Disturbance as a trough with its axis at 5.8 Km above mean sea level now runs roughly along Long. 80°E to the north of Lat. 32°N and is moving away east-northeastwards.
- ❖ The cyclonic circulation over Sub-Himalayan West Bengal & adjoining Bangladesh extending upto 1.5 km above mean sea level persists.
- ❖ The cyclonic circulation over Rayalaseema & adjoining South Interior Karnataka at 0.9 km above mean sea level persists.
- ❖ The trough from South Interior Karnataka to Comorin area across Tamil Nadu at 0.9 km above mean sea level persists.
- ❖ The cyclonic circulation over East central Bay of Bengal extending upto 5.8 km above mean sea level persists.
- ❖ A fresh Western Disturbance likely to affect Western Himalayan Region from 13th October, 2023 night and plain of northwest India from 14th October, 2023.

Weather Forecast for next 5 days (Upto 0830 hours IST of 17th October, 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 northwest, south peninsular India and Islands.
- ❖ Isolated to scattered rainfall likely over parts of Northeast India. Dry weather likely to prevail over rest parts of the country.



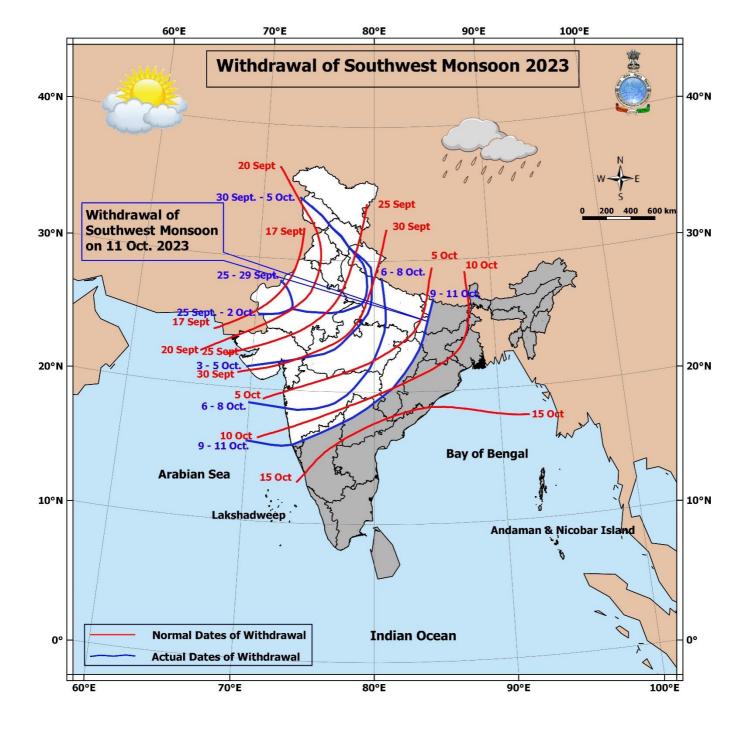






Table-1

7 Days Rainfall Forecast								
C		12-	13-	14-	15-	16-	17-	18-
S. No.	Subdivision	Oct						
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
3	ASSAM & MEGHALAYA	ISOL						
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	ISOL						
6	GANGETIC WEST BENGAL	DRY						
7	ODISHA	DRY						
8	JHARKHAND	DRY						
9	BIHAR	DRY						
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	ISOL	ISOL	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
12	UTTARAKHAND	DRY	DRY	DRY	ISOL	SCT	ISOL	ISOL
13	HARYANA CHANDIGARH & DELHI	DRY	DRY	DRY	ISOL	SCT	ISOL	ISOL
14	PUNJAB	DRY	DRY	ISOL	FWS	FWS	ISOL	ISOL
15	HIMACHAL PRADESH	DRY	DRY	ISOL	FWS	FWS	ISOL	ISOL
16	JAMMU & KASHMIR AND LADAKH	DRY	ISOL	SCT	FWS	FWS	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	ISOL	SCT	ISOL	ISOL
18	EAST RAJASTHAN	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
20	EAST MADHYA PRADESH	DRY						
21	GUJARAT REGION	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	ISOL	ISOL	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	DRY	DRY
24	MADHYA MAHARASHTRA	DRY						
25	MARATHAWADA	DRY						
26	VIDARBHA	DRY						
27	CHHATTISGARH	DRY						
28	COASTAL ANDHRA PRADESH & YANAM	ISOL						
29	TELANGANA	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY
30	RAYALASEEMA	ISOL						
31	TAMILNADU PUDUCHERRY & KARAIKAL	ISOL						
32	COASTAL KARNATAKA	FWS	SCT	SCT	SCT	FWS	FWS	FWS
33	NORTH INTERIOR KARNATAKA	ISOL						
34	SOUTH INTERIOR KARNATAKA	SCT	ISOL	ISOL	SCT	SCT	SCT	SCT
35	KERALA & MAHE	FWS						
36	LAKSHADWEEP	FWS	SCT	SCT	SCT	SCT	SCT	SCT
50	DUIYOTTUD AA EET	1 443	JC1	301	301	301	301	301

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 11.10.2023

Fig. 2: Departure of Maximum Temp. Dated 11.10.2023

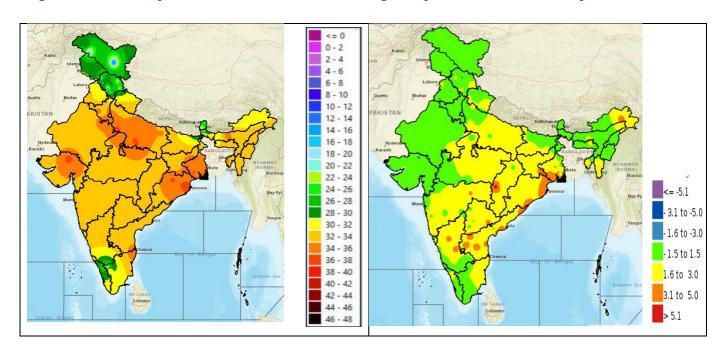


Fig. 3: Minimum Temperatures Dated 11.10.2023

Fig. 4: Departure of Minimum Temp. Dated 11.10.2023

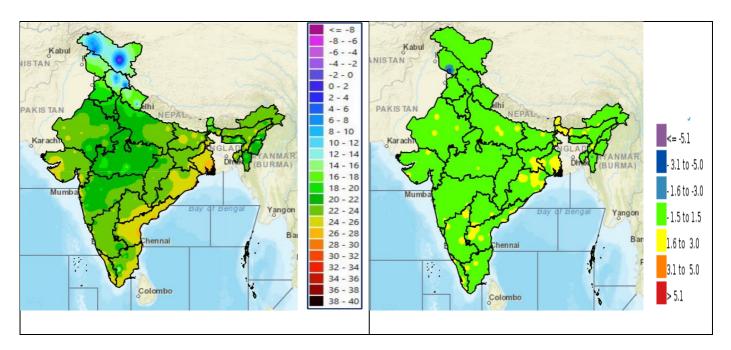
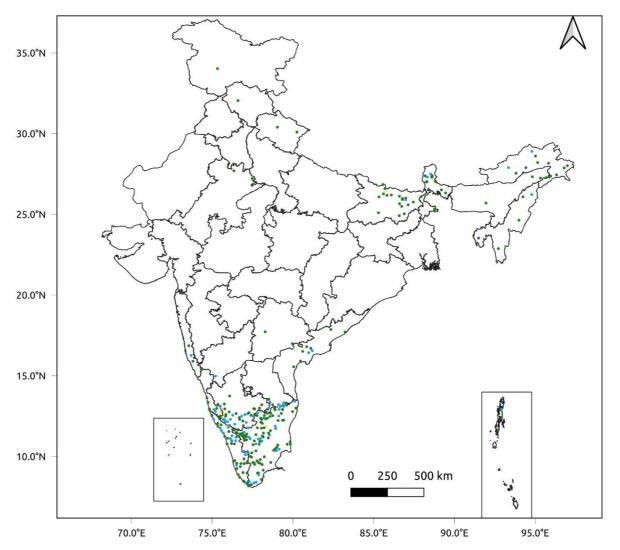




Fig. 5: Accumulated Rainfall (mm) during past 24 hours



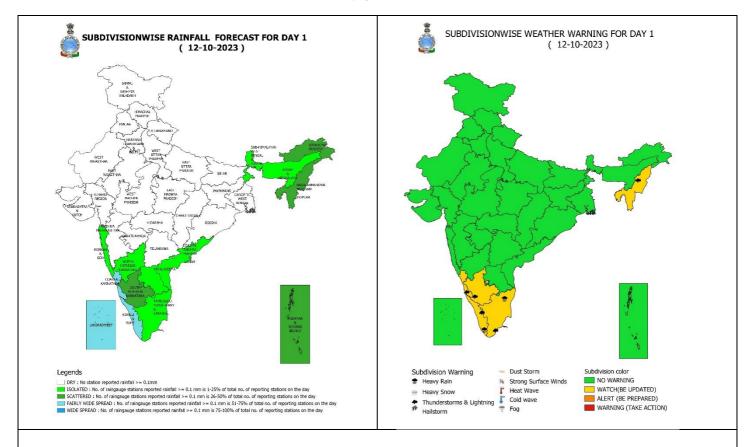
24 Hr cumulative rainfall recorded over different stations during 0830 IST of 10-10-2023 to 0830 IST of 11-10-2023



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)

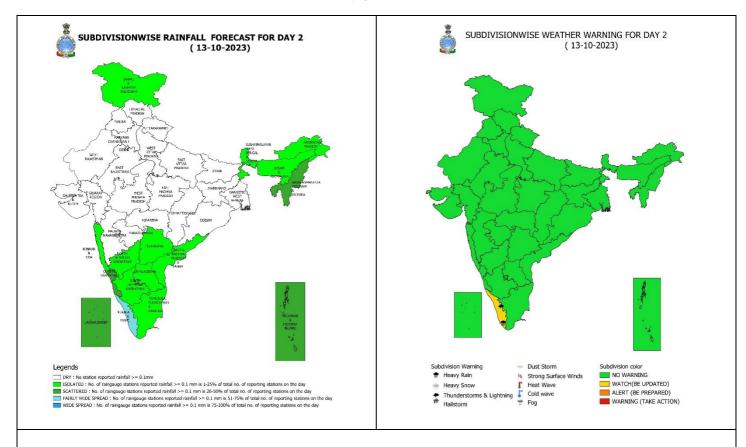




12 October (Day 1):

- ❖ **Heavy rainfall** very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.
- ❖ Thunderstorm with lightning accompanied with gusty winds speed reaching 30-40 kmph very likely at isolated places over Kerala & Mahe; Thunderstorm with lightning at isolated places over Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

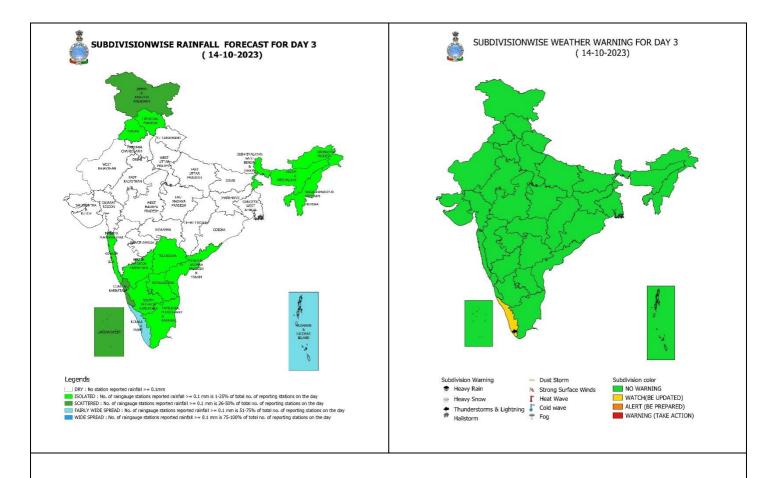




13 October (Day 2):

- *** Heavy rainfall** very likely at isolated places over Kerala & Mahe.
- **❖ Thunderstorm with lightning accompanied with gusty winds speed reaching 30-40 kmph** very likely at isolated places over Kerala & Mahe



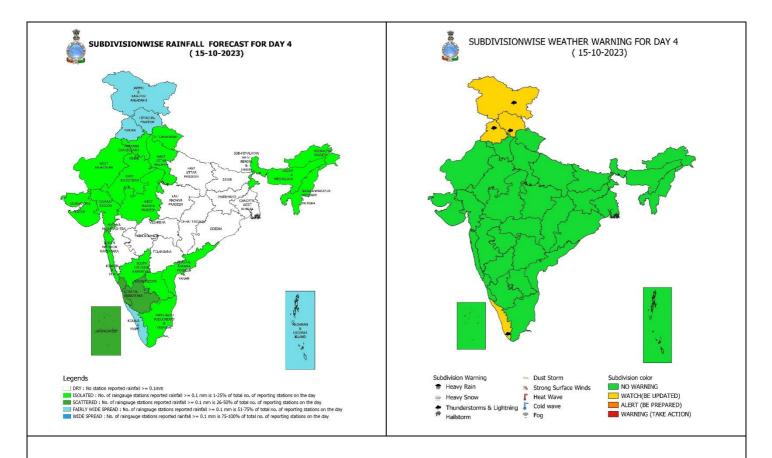


14 October (Day 3):

❖ Thunderstorm with lightning accompanied with gusty winds speed reaching 30-40 kmph likely at isolated places over Kerala & Mahe.



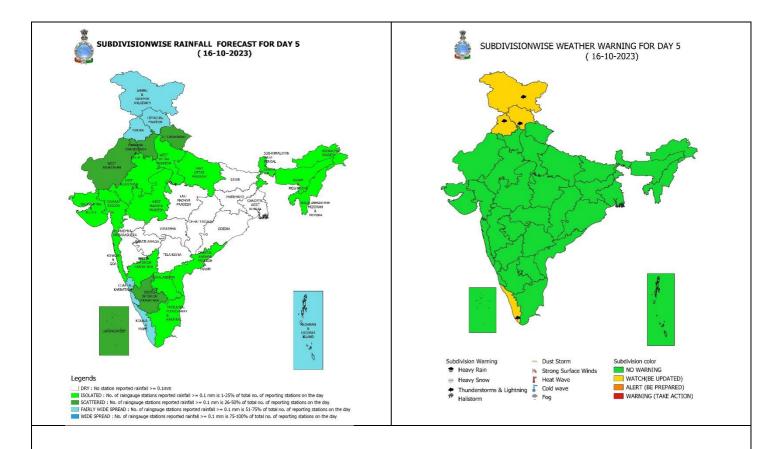




15 October (Day 4):

❖ Thunderstorm with lightning accompanied with gusty winds speed reaching 30-40 kmph likely at isolated places over Kerala & Mahe; **Thunderstorm with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab.



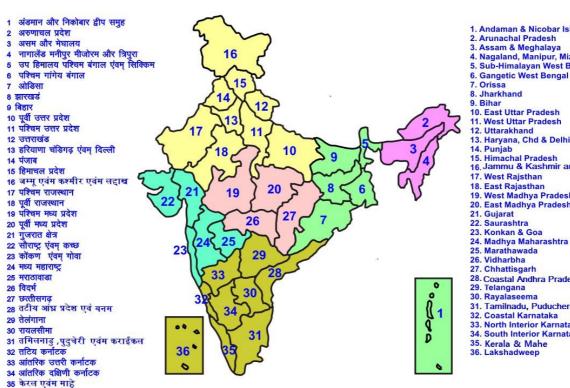


16 October (Day 5):

❖ Thunderstorm with lightning accompanied with gusty winds speed reaching 30-40 kmph likely at isolated places over Kerala & Mahe; **Thunderstorm with lightning** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Punjab.



LEGENDS



- 1. Andaman & Nicobar Islands 2. Arunachal Pradesh

- Assam & Meghalaya
 Nagaland, Manipur, Mizoram & Tripura
 Sub-Himalayan West Bengal & Sikkim
- Gangetic West Bengal
- 7. Orissa
- 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
- 22. Saurashtra

- 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





