**Government of India**
**Ministry of Earth Sciences**
**India Meteorological Department**

**Press Release**
**Date: 19th October, 2022**
**Time of Issue: 1315 hrs IST**

**Subject: (i) A Low Pressure Area is likely to form over Southeast & adjoining Eastcentral Bay of Bengal during next 24 hours. It is likely to move west-northwestwards and concentrate into a Depression by 22nd October morning over Central Bay of Bengal. It is very likely to intensify further into a Cyclonic Storm over Westcentral Bay of Bengal subsequent 48 hours.**

**(ii) Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of Maharashtra, Chhattisgarh, Jharkhand, some parts of Odisha, entire West Bengal & remaining parts of Northeastern States during next 24 hours.**

**Weather observed during past 24 hours ending at 0830 hrs IST of today: (Refer Annexure I)**

**Withdrawal of Southwest Monsoon: (Withdrawal Map in Annexure II)**

- The withdrawal line of Southwest Monsoon continues to pass through 28.6°N, 93.6°E, Lumding, Kailashahar, Berhampore, Kanke, Bilaspur, Brahmapuri, Buldana, Dahanu, Long. 71.0° E/Lat. 19.5° N.
- Conditions are very likely to become favourable for further withdrawal of Southwest Monsoon from some more parts of Maharashtra, Chhattisgarh, Jharkhand, some parts of Odisha, entire West Bengal & remaining parts of Northeastern States during next 24 hours.

**Weather systems, rainfall/thunderstorm Forecast & Warnings: (Warning Graphics in Annexure III)**

- A cyclonic circulation lies over north Andaman Sea and neighbourhood persisting over the same region since yesterday (18th October), and now it is extending upto mid tropospheric levels at 0830 hours IST of today, the 19th October 2022. Under its influence, a Low Pressure Area is likely to form over Southeast and adjoining Eastcentral Bay of Bengal during next 24 hours. It is likely to move west-northwestwards and **concentrate into a Depression by 22nd October morning** over Central Bay of Bengal. It is very likely to **intensify further into a Cyclonic Storm** over Westcentral Bay of Bengal during subsequent 48 hours.
- A trough runs from cyclonic circulation over north Andaman Sea & neighbourhood to Tamil Nadu coast across South Bay of Bengal in lower tropospheric levels.
- A cyclonic circulation lies over Eastcentral Arabian Sea off Maharashtra coast in lower tropospheric levels.
- A north-south trough runs from Southeast Arabian Sea off Kerala coast to cyclonic circulation over Eastcentral Arabian Sea off Maharashtra coast in lower tropospheric levels.
- A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long 70°E to the north of Lat 32°N.
- **Under the influence of above systems;**
  - Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe during 19th-22nd and South Interior Karnataka and Lakshadweep on 19th & 20th October, 2022.
  - Widespread light/moderate rainfall with **isolated heavy falls** very likely over Andaman & Nicobar Islands during 19th–22nd October, 2022.
  - Isolated light rainfall/snowfall over Western Himalayan Region during next 2 days.
  - **Dry weather very likely to prevail over most parts of Northwest & central India.**

For more details kindly refer: https://mausam.imd.gov.in/imd_latest/contents/all_india_forcast_bulletin.php

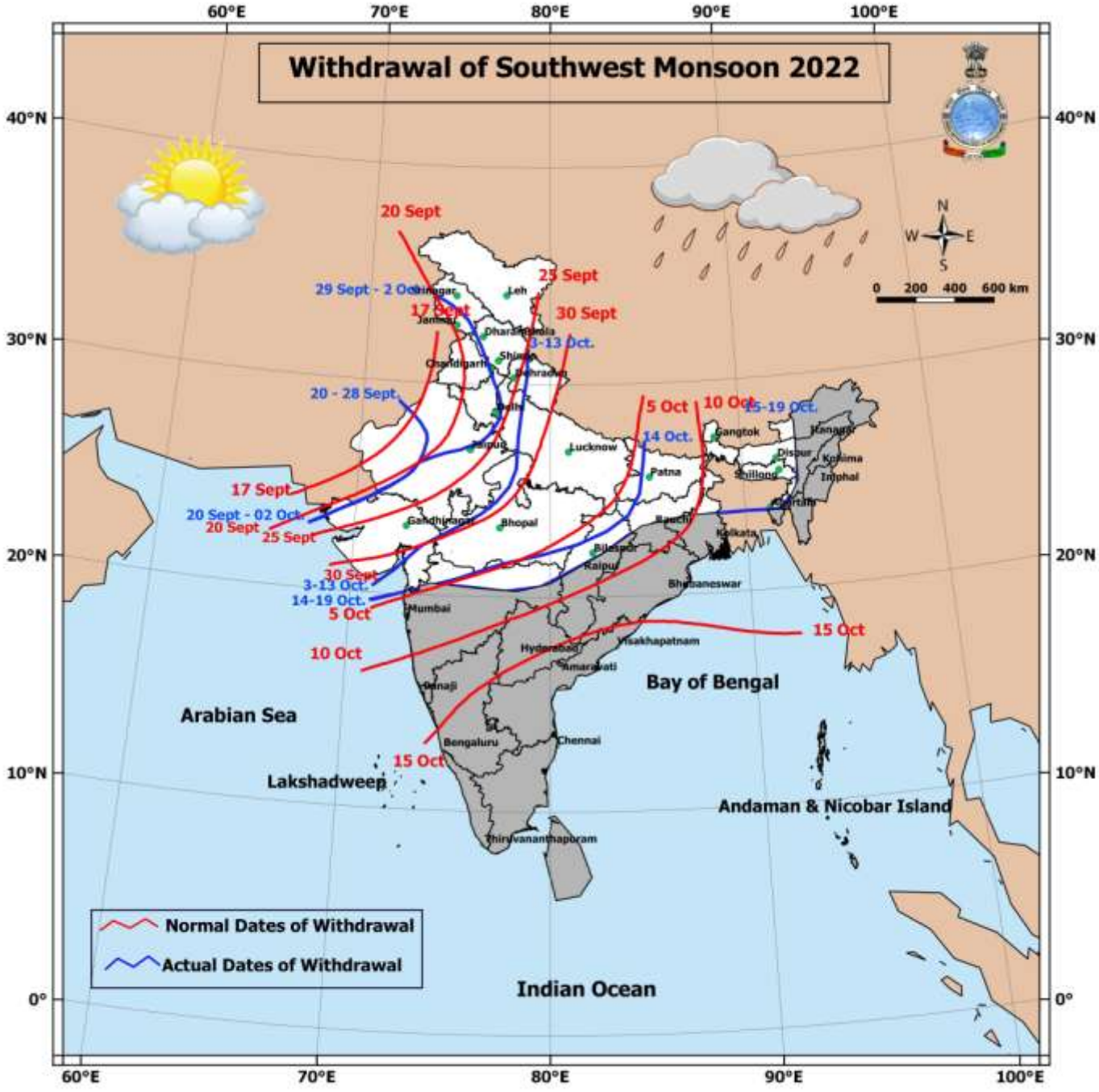
**Annexure I**

- **Isolated very heavy rainfall occurred** over North Interior Karnataka and Madhya Maharashtra and **heavy rainfall** over Kerala, Tamil Nadu and South Interior Karnataka.

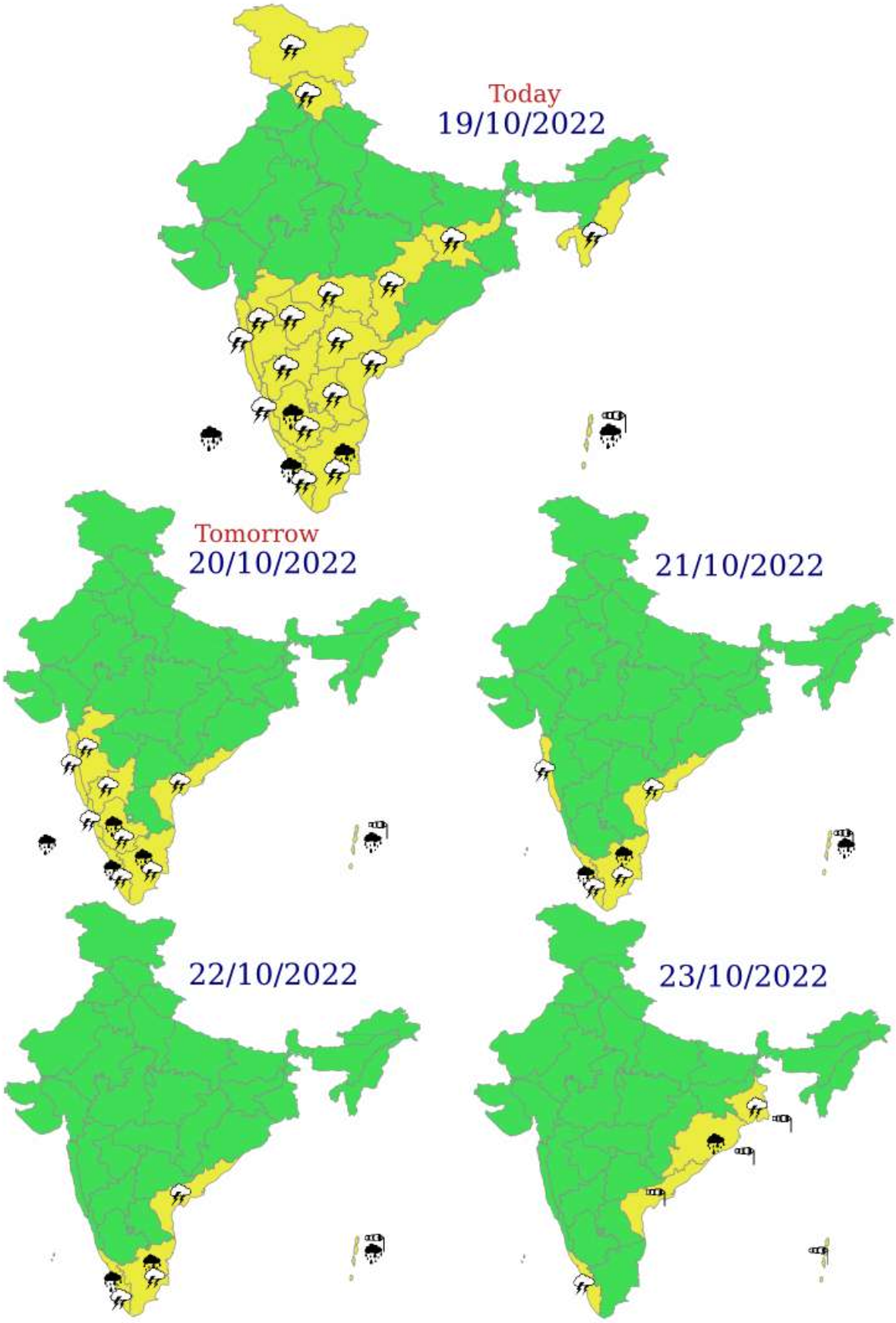
**Rainfall (in cm):**

- **Madhya Maharashtra:** Trimbakshwar (dist Nashik) 12;
- **North Interior Karnataka:** Devarhippargi (dist Vijayapura) 12;
- **Tamil Nadu:** Barwood (dist The Nilgiris) 10, Peravurani (dist Thanjavur) 9, Colachel (dist Kanyakumari) 8, Katpadi (dist Vellore) 7;
- **South Interior Karnataka:** Maddur (dist Mandya) 8, Madhugiri Arg (dist Tumakuru) 7, Madhugiri (dist Tumakuru) 7, Hesaraghatta (dist Bengaluru Urban) 7;
- **Kerala:** Vyttiri (dist Wynad) 8;

**Annexure II**

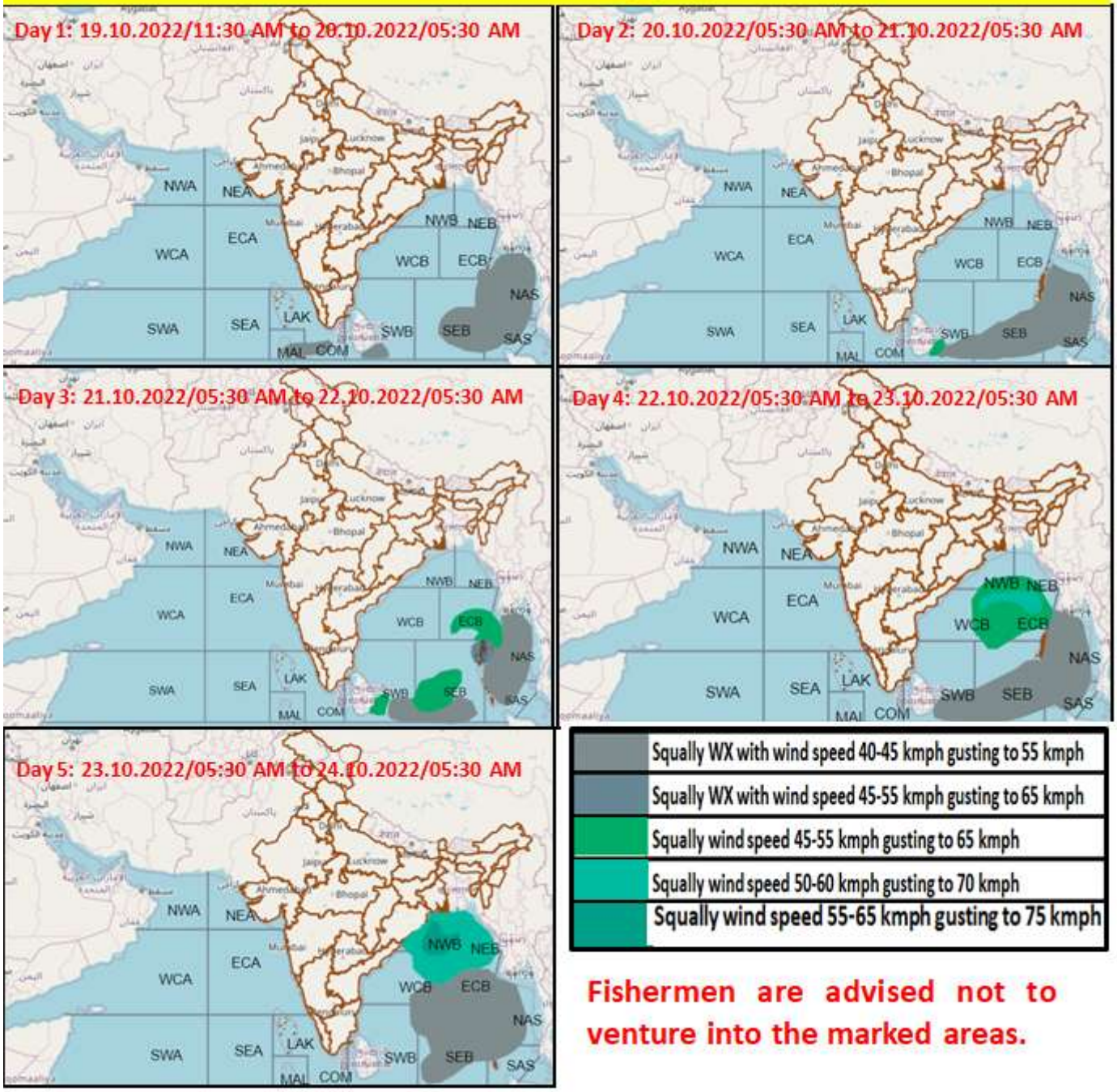

Withdrawal of Southwest Monsoon 2022
60°E
70°E
80°E
90°E
100°E
40°N
30°N
20°N
10°N
0°
N
W
E
S
0 200 400 600 km
20 Sept
29 Sept - 2 Oct.
25 Sept
17 Sept
30 Sept
3-13 Oct.
20 - 28 Sept.
5 Oct
10 Oct
15-19 Oct.
14 Oct.
17 Sept
20 Sept - 02 Oct.
20 Sept
25 Sept
30 Sept
3-13 Oct.
14-19 Oct.
5 Oct
10 Oct
15 Oct
15 Oct
Srinagar
Leh
Jammu
Dharamshala
Chandigarh
Shimla
Dehradun
Delhi
Jaipur
Lucknow
Patna
Gangtok
Itanagar
Dispur
Kohima
Imphal
Shillong
Agartala
Gandhinagar
Bhopal
Ranchi
Kolkata
Bilaspur
Raipur
Bhubaneswar
Mumbai
Hyderabad
Visakhapatnam
Amaravati
Panaji
Chennai
Bengaluru
Thiruvananthapuram
Arabian Sea
Bay of Bengal
Lakshadweep
Andaman & Nicobar Island
Indian Ocean
Normal Dates of Withdrawal
Actual Dates of Withdrawal

**Annexure III**



**Annexure IV**

# Fishermen warning graphics




**Fishermen are advised not to venture into the marked areas.**

**Legends:**

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

**Region wise classification of meteorological Sub-Divisions:**

1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.

2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.

3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.

6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and 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) |

Heavy Rain

Strong Winds

**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 |

**Thunderstorm with Lightning**