



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

**Press Release
Date: 20th October, 2023
Time of Issue: 1330 hours IST**

**Subject: (i) A Depression lies over Southwest Arabian Sea and is likely to form Cyclonic circulation over the same region during next 24 hours.
(ii) A Low Pressure Area lies over Southwest & adjoining Southeast Bay of Bengal and is likely to intensify further into a Depression over Westcentral Bay of Bengal around 22nd October.**

No significant rainfall recorded during past 24 hours till 0830 hours IST of today, the 20th Oct, 2023.

Onset of Northeast Monsoon

- ❖ With the setting in of Easterlies/Northeasterlies over southern peninsular India, northeast monsoon rainfall activity is likely to commence over southern peninsular region in the next 48 hours. However, the initial phase of the northeast monsoon in general is likely to be weak.

Significant Weather features:

- ❖ Yesterday's Low-Pressure Area over Southeast & adjoining southwest Arabian Sea moved nearly westward, became a Well-Marked Low Pressure Area over southwest Arabian Sea in the midnight (2330 hours IST). It concentrated into a **Depression** and lay centred at 0830 hours IST of today, the 20th October over Southwest Arabian Sea near latitude 9.3°N and longitude 61.7°E about 920 km east-southeast of Socotra (Yemen), 1190 km southeast of Salalah Airport (Oman) and 1280 km east-southeast of Al Ghaidah (Yemen). It is likely to move west-northwestwards and intensify into a cyclonic storm over southwest Arabian Sea during next 24 hours. Continuing to move west-northwestwards, it is likely to intensify into a severe cyclonic storm in the evening of 22nd October. Thereafter, it would move north-northwestwards from 24th morning towards south Oman and adjoining Yemen coasts.
- ❖ Under the influence of yesterday's cyclonic circulation over southeast Bay of Bengal, a **Low Pressure Area** has formed over Southwest & adjoining Southeast Bay of Bengal. It is likely to intensify further into a **Depression** over Westcentral Bay of Bengal around 22nd October.
- ❖ A cyclonic circulation lies over Comorin area & neighbourhood in lower & middle tropospheric levels.

Weather warnings for next 5 days: (Graphics in Annexure I)

South India: Light to moderate rainfall at some/many places with isolated **heavy rainfall** accompanied with thunderstorm, lightning & gusty winds very likely over Kerala on 23rd & 24th October.

Northeast India: Light to moderate rainfall at some/many places with isolated **heavy rainfall** accompanied with thunderstorm & lightning very likely over Nagaland, Manipur, Mizoram & Tripura on 24th October.

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

Weather warnings in association with the Depression over Southwest Arabian Sea:

(i) Wind warning (Graphics in Annexure II):

❖ Southwest Arabian Sea:

Squally wind speed reaching **45-55 kmph gusting to 65 kmph** is prevailing and likely to increase gradually becoming **60-70 kmph gusting to 80 kmph** by morning of 21st, **80-90 kmph gusting to 100 kmph** by morning of 22nd October. It is likely to decrease gradually thereafter.

❖ Westcentral Arabian Sea:

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is prevailing and likely to gradually increase becoming **50-60 kmph gusting to 70 kmph** on 21st.

Gale wind speed reaching **80-90 kmph gusting to 100 kmph** is likely to prevail in the morning of 22nd becoming **95-105 kmph gusting to 115 kmph** by morning of 23rd and further **105-115 kmph gusting to 125 kmph** in the evening of 23rd October. Thereafter, it is likely to decrease gradually becoming Gale wind speed reaching **85-95 kmph gusting to 115 kmph** and **70-80 kmph gusting to 90 kmph** in the morning of 25th October.

(ii) Fishermen Warning:

Fishermen are advised not to venture into

❖ **Southwest Arabian Sea** from 20th to 23rd October.

❖ **Westcentral Arabian Sea** from 20th October onwards.

The Fishermen out at sea are advised to return to coast.

Weather warnings in association with the Low Pressure Area over Southwest & adjoining Southeast Bay of Bengal

(i) Wind warning (Graphics in Annexure II):

❖ Southwest and adjoining southeast Bay of Bengal:

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is prevailing near the system and it is likely to gradually increase becoming squally wind speed reaching **45-55 kmph gusting to 65 kmph** on 21st & 22nd and **50-60 kmph gusting to 70 kmph** on 23rd October. It is likely to decrease gradually thereafter.

❖ Westcentral Bay of Bengal:

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to prevail on 21st October. It is likely to gradually increase becoming **45-55 kmph gusting to 65 kmph** on 22nd and **50-60 kmph gusting to 70 kmph** on 23rd & 24th October.

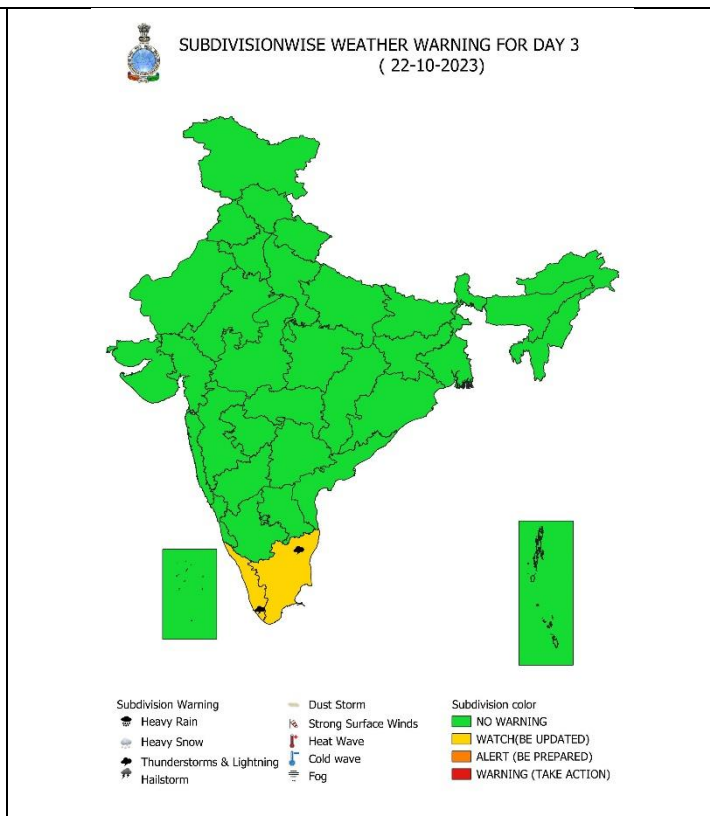
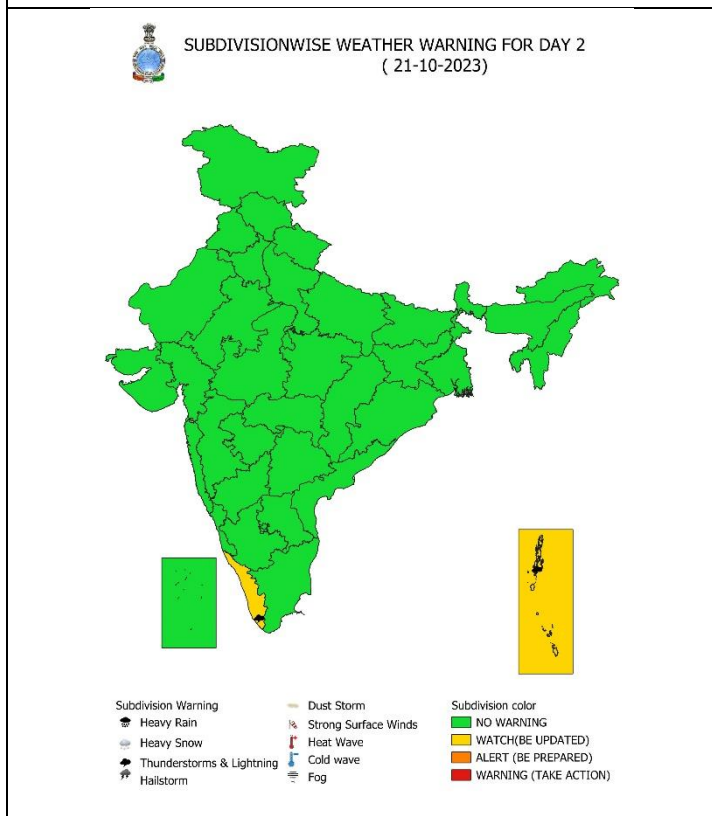
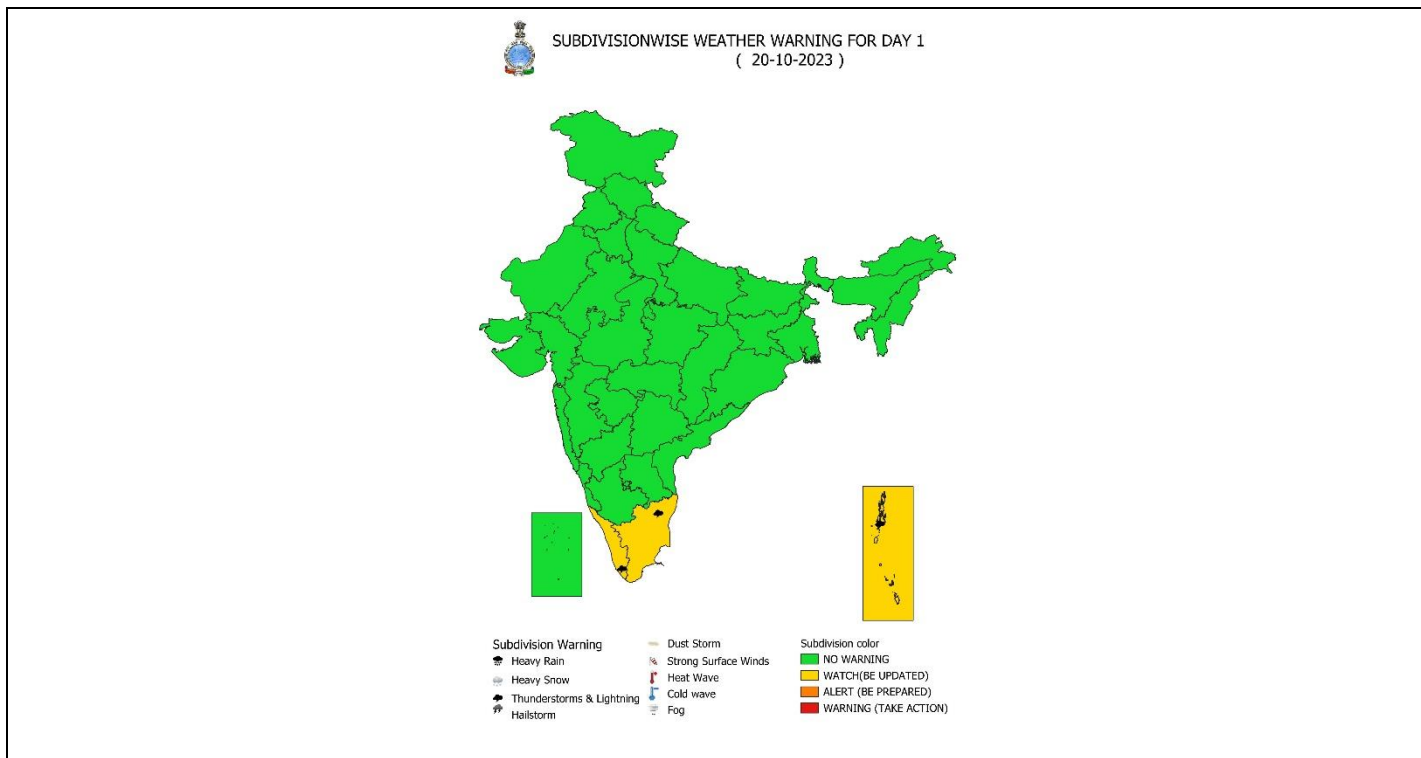
(ii) Fishermen Warning:

Fishermen are advised not to venture into

❖ **Southwest and adjoining southeast Bay of Bengal** from 20th to 23rd October.

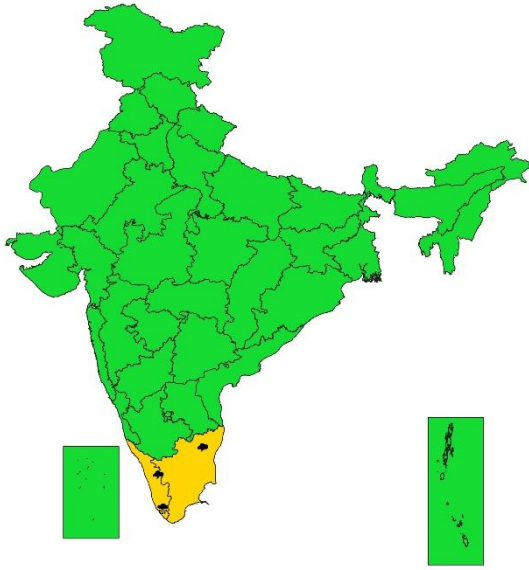
❖ **Westcentral Bay of Bengal** from 21st October onwards.

For more details kindly refer: https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php





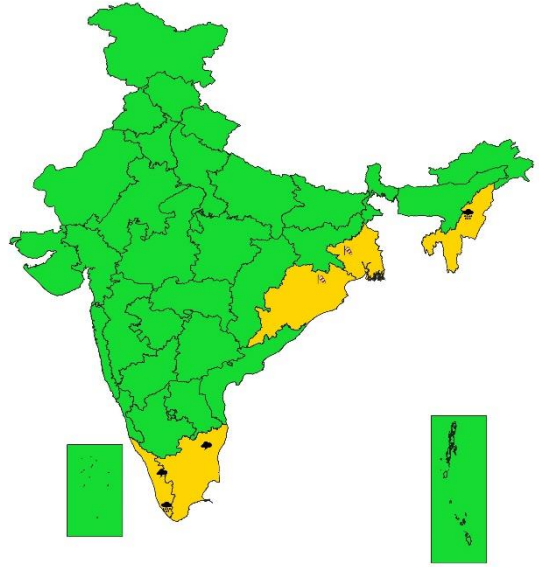
**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(23-10-2023)**



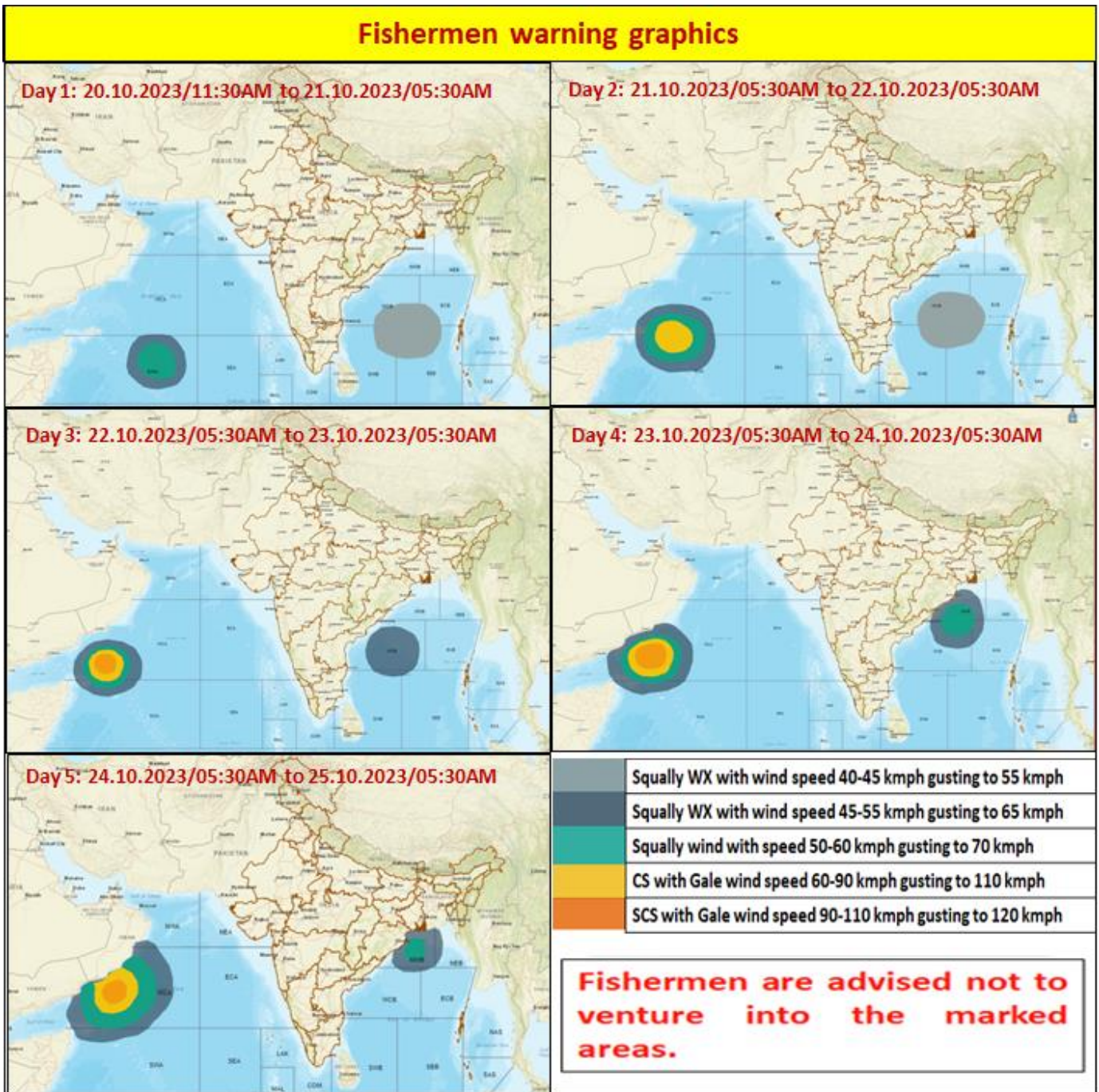
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|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH(BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(24-10-2023)**



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|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH(BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



Legends:

- ❖ **Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **AWS:** Automatic Weather Station; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalaya West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
 - **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)

Subdivision Warning	Dust Storm	Subdivision color
Heavy Rain	Strong Surface Winds	NO WARNING
Heavy Snow	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning	Cold wave	ALERT (BE PREPARED)
Hailstorm	Fog	WARNING (TAKE ACTION)

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

Flash Flood Risk	
	High Risk (Take Action)
	Moderate Risk (Be Prepared)
	Low Risk (Be Updated)