



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 15th December, 2022
Time of Issue: 1330 hrs IST

Subject: (i) Deep Depression over Eastcentral Arabian Sea.
(ii) Low Pressure Area over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean.
(iii) Cold wave conditions in isolated pockets over Himachal Pradesh, Punjab and north Rajasthan during 16th - 18th December 2022.

Weather observed during past 24 hours ending at 0830 hrs IST of today:

- ❖ **Minimum temperatures** are in the range of 6-9° C over many parts of Punjab, Haryana, North Rajasthan and North Uttar Pradesh. These are below normal by 2-3° C over some parts of Haryana, North Rajasthan and northwest Uttar Pradesh.
- ❖ **Heavy rainfall** at isolated places over Kerala.
- ❖ **Significant amount of rainfall (in cm): KERALA & MAHE, LAKSHADWEEP:** Kozhikode & Kanjirappally (Kottayam district) 7 each.

Weather systems and forecast & warning:

(1) Deep Depression over Eastcentral Arabian Sea

- ❖ Yesterday's Well Marked Low pressure area over Eastcentral and Southeast Arabian Sea concentrated into Depression over same area at 1730 hrs IST of yesterday. It further intensified into Deep Depression over Eastcentral & adjoining Southeast Arabian Sea at 0530 hours IST of today. It lay centered at 0830 hrs IST of today, the 15th December 2022 over eastcentral Arabian Sea near latitude 13.9⁰N and longitude 67.8⁰E about 620 km west-northwest of Aminidivi (Lakshadweep), about 670 km west-southwest of Panjim (Goa) and 1510 km east-southeast of Salalah (Oman). It is very likely to move nearly westwards over central Arabian Sea away from Indian coast, maintain intensity of deep depression till early hours of tomorrow and weaken gradually thereafter.

Under its influence:

(i) Heavy Rainfall warning (Annexure I): No warning as the Deep Depression is moving away from the Indian coast.

(ii) Wind warning :

- **Southeast Arabian Sea: Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph** till 15th evening and decrease gradually thereafter.
- **Eastcentral Arabian Sea: Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** is prevailing around the system center and is likely to decrease gradually becoming 45-55 kmph gusting to 65 kmph by 16th morning. It will gradually decrease further becoming 35-45 kmph gusting to 55 kmph by 17th morning.
- **Westcentral Arabian Sea: Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is prevailing over Westcentral Arabian Sea. It is likely to become 45-55 kmph gusting to 65 kmph by 15th December evening and continue till 16th December afternoon. It will decrease gradually thereafter becoming 35-45 kmph gusting to 55 kmph by 17th morning.
- **Southwest Arabian Sea: Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is prevailing over the region and is likely to become 45-55 kmph gusting to 65 kmph during 16th morning to 17th December morning. It will gradually decrease thereafter.

(iii) Sea Condition

- ❖ **Southeast Arabian Sea: Sea Condition** is likely to be rough to very rough till 16th morning and improve thereafter.
- ❖ **Eastcentral Arabian Sea: Sea Condition** is likely to be rough to very rough till 17th morning and improve thereafter.
- ❖ **Westcentral Arabian Sea: Sea Condition** is likely to be rough becoming rough to very rough from 15th evening to 17th December morning and improve thereafter.
- ❖ **Southwest Arabian Sea: Sea Condition** is likely to be rough from 15th evening becoming rough to very rough during 16th to 17th December morning.

(iv) Fishermen Warning (Annexure II)

Fishermen are advised not to venture into

- ❖ **Southeast Arabian Sea** till 16th December morning.
- ❖ **Eastcentral Arabian Sea** till 17th morning.
- ❖ **Westcentral & Southwest Arabian Sea** till 17th December.

(B) Low pressure area over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean

The **Low Pressure Area** over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean persists over the same region at 0830 hours IST of today, the 15th December. It is likely to move gradually westwards and become **Well Marked Low Pressure Area** over the same region during next 12 hours. Thereafter, it would continue to move westwards and maintain its intensity over South Bay of Bengal till morning of 17th December 2022.

Warnings:

(i) Heavy Rainfall Warning:

Light to moderate rainfall at many places with heavy rainfall at isolated places is very likely over Andaman & Nicobar Islands on 15th and 16th December, 2022.

(ii) Wind warning:

- ❖ **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is very likely over south Andaman Sea on 15th December.
- ❖ **Squally wind speed reaching 35-45 kmph gusting to 55 kmph** is likely over Southeast Bay of Bengal till 16th December.
- ❖ **Squally wind speed reaching 35-45 kmph gusting to 55 kmph** is likely to prevail over Southwest Bay of Bengal on 16th and 17th December

(iii) Sea condition: Sea condition is likely to be rough over

- ❖ South Andaman Sea on 15th December.
- ❖ Southeast Bay of Bengal till 16th December.
- ❖ Southwest Bay of Bengal on 16th and 17th December.

(iv) Fishermen Warning (warning graphics enclosed)

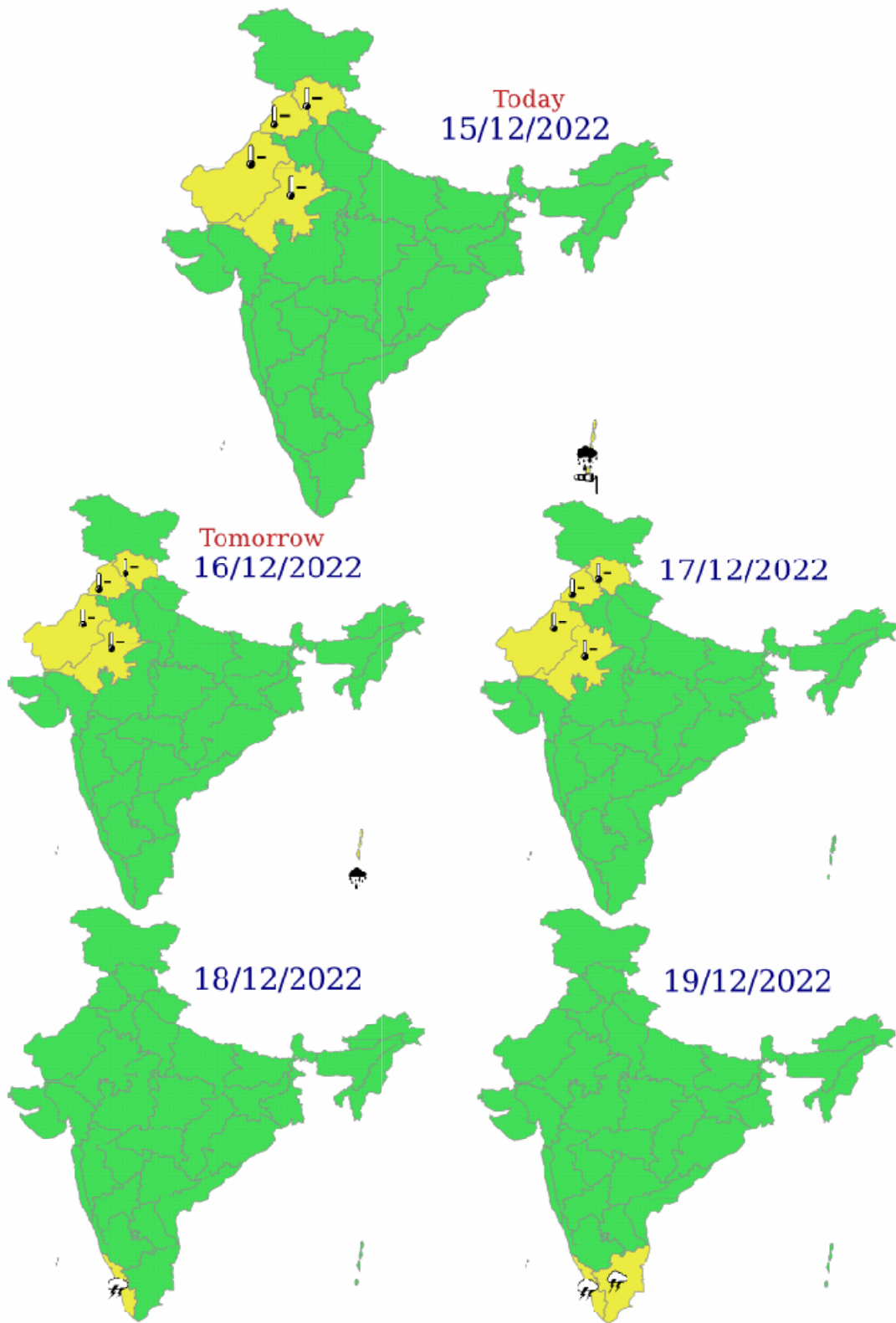
Fishermen are advised not to venture into:

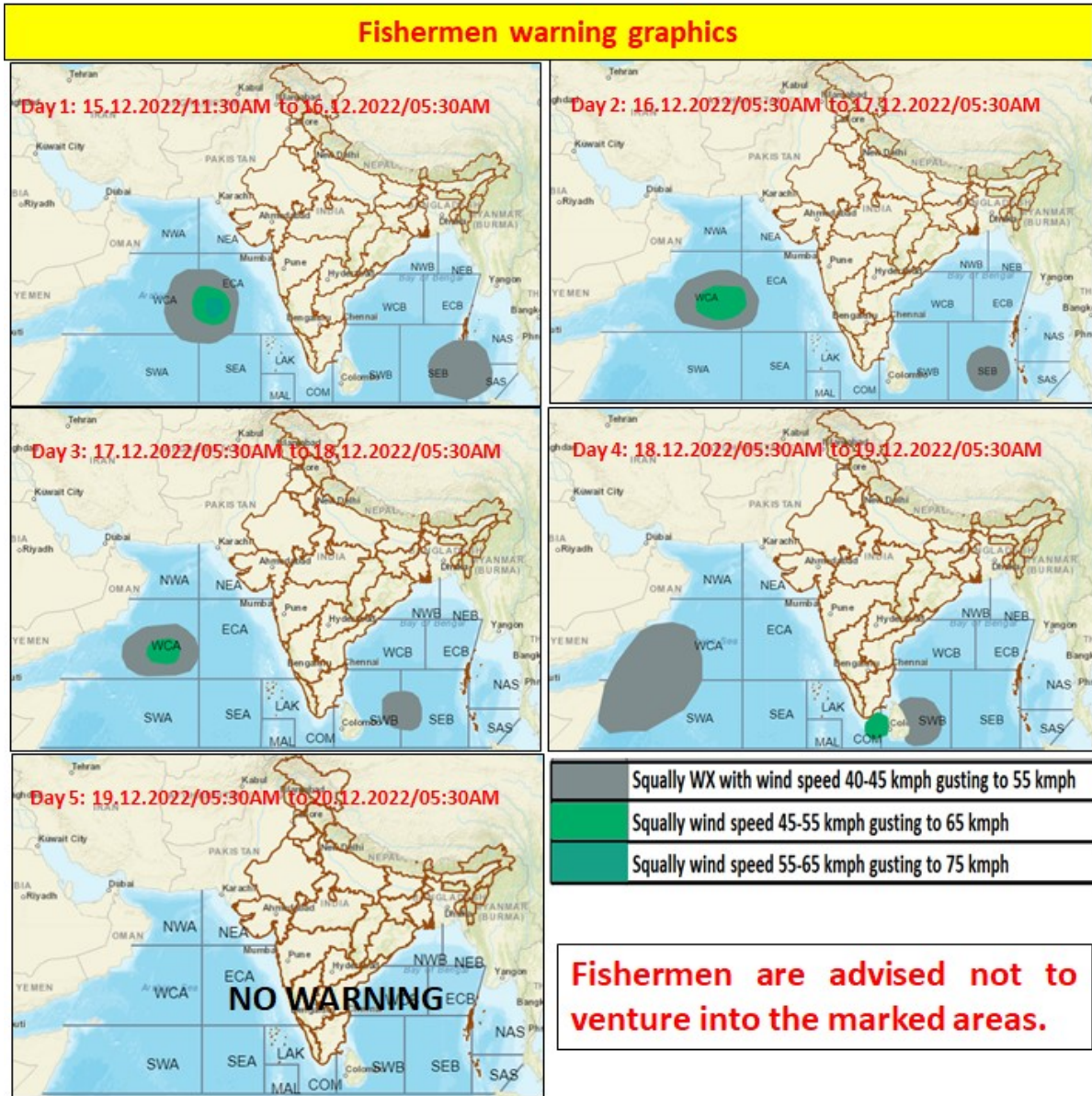
- ❖ South Andaman Sea on 15th December.
- ❖ Southeast Bay of Bengal till 16th December.
- ❖ Southwest Bay of Bengal on 16th and 17th December.

(2) Minimum Temperature Forecast :

- ❖ Gradual fall in minimum temperatures by about 2°C likely over Northwest India during 24 hours and no significant change thereafter. Gradual fall by 2-4°C in minimum temperatures likely over Central India during next 4-5 days and no significant change thereafter. Gradual fall by 2-3°C in minimum temperatures likely over East India during next 2 days and no significant change thereafter. No significant change in minimum temperatures likely over Maharashtra during next 24 hours and fall by 2-4°C thereafter. No significant change in minimum temperatures likely over Gujarat state during next 2 days and fall by 2-4°C thereafter. No significant change in minimum temperatures likely over remaining parts of the country during next 4-5 days.
- ❖ **Cold wave conditions** in isolated pockets very likely over Himachal Pradesh, Punjab and north Rajasthan during 16th - 18th December 2022.

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





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 Widespread (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