



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

**Press Release
Date: 16th December, 2022
Time of Issue: 1245 hrs IST**

**Subject: (i) Low Pressure Area over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean.
(ii) Cold wave conditions over parts of Northwest India during next 3 days.**

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 plains of Northwest India. These are below normal by 2-3° C over isolated parts of North India.
- ❖ **Heavy rainfall** recorded at isolated places over Nicobar Islands.
- ❖ **Cold wave conditions** observed in isolated pockets over Punjab.

Weather systems and forecast & warning:

(1) Deep Depression over Eastcentral & adjoining Westcentral Arabian Sea

Deep Depression over Eastcentral & adjoining Westcentral Arabian Sea moved west-southwestwards with a speed of 13 kmph during past 06 hours and lay centered at 0830 hrs IST of today, the 16th December 2022 over the same region near latitude 13.9°N and longitude 64.7°E about 930 km west-northwest of Aminidivi (Lakshadweep), about 1000 km west-southwest of Panjim (Goa) and 1190 km east-southeast of Salalah (Oman).

It is very likely to move west-southwestwards and weaken gradually into a Depression around today evening and further into a well marked low pressure area by 17th December evening.

Under its influence:

(i) Heavy Rainfall warning: No warning as the deep depression is moving away from India coast.

(ii) Wind warning (warning graphics enclosed):

- **Eastcentral Arabian Sea: Squally weather with wind speed reaching 50-60 kmph gusting to 70 kmph** is prevailing around the system center and is likely to decrease gradually becoming 45-55 kmph gusting to 65 kmph by 16th evening. 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 50-60 kmph gusting to 70 kmph** is prevailing over Westcentral Arabian Sea. It is likely to continue till 16th December evening. It will decrease gradually thereafter becoming 40-50 kmph gusting to 60 kmph by 17th morning and decrease thereafter.
- **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 40-50 kmph gusting to 60 kmph during 16th evening to 17th December morning. It will gradually decrease thereafter.

(iii) Sea Condition

- ❖ **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 to very rough till 17th December morning and improve thereafter.
- ❖ **Southwest Arabian Sea: Sea Condition** is likely to be rough becoming rough to very rough till 17th December morning and improve thereafter.

(iv) Fishermen Warning:

Fishermen are advised not to venture into

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

(2) 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 16th December. It is likely 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 Nicobar Islands on 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 till morning of 17th December.
- ❖ **Squally wind speed reaching 35-45 kmph gusting to 55 kmph** is likely over Southeast Bay of Bengal till morning of 17th 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 and Southeast Bay of Bengal till morning of 17th December.
- ❖ Southwest Bay of Bengal on 16th and 17th December.

(iv) Fishermen Warning (warning graphics enclosed)

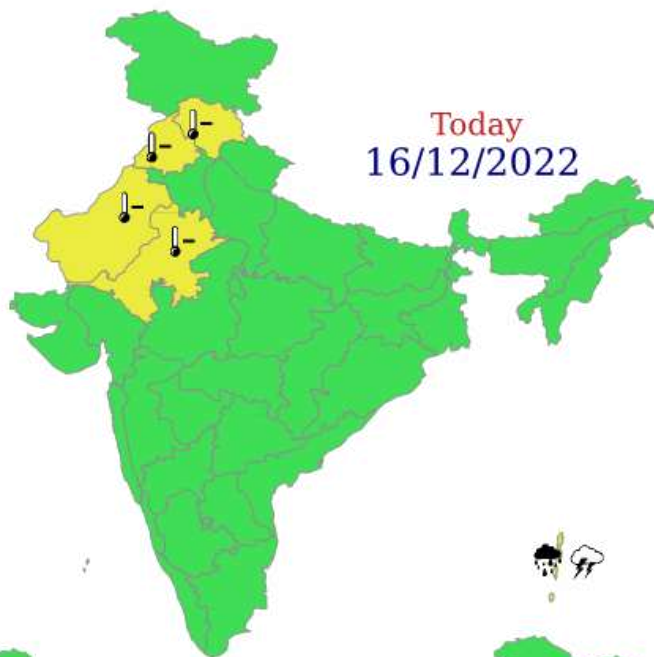
Fishermen are advised not to venture into:

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

(3) Minimum Temperature Forecast :

- ❖ Gradual fall by 2-4°C in minimum temperatures likely over many parts of Central & East India and Maharashtra during next 2-3 days and no significant change thereafter. No significant change in minimum temperatures likely over Gujarat state during next 2 days and fall by 2-3°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 next 3 days.

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



Fishermen warning graphics



Squally WX with wind speed 40-45 kmph gusting to 55 kmph
Squally wind speed 45-55 kmph gusting to 65 kmph
Squally wind speed 55-65 kmph gusting to 75 kmph

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 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