



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

**Press Release
Date: 06th December, 2022
Time of Issue: 1345 hrs IST**

**Subject: 1. The Well marked low pressure area over Southeast Bay of Bengal likely to concentrate into a Depression over same region by today evening, into a Cyclonic Storm around 07th December evening and reach Southwest Bay of Bengal off north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts by 08th December morning.
2. Heavy to very heavy rainfall spell over north Tamil Nadu, south Coastal Andhra Pradesh and Rayalaseema during 08th-10th and isolated extremely heavy rainfall over north Tamil Nadu & south coastal Andhra Pradesh on 09th December, 2022.**

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

- ❖ **Minimum temperatures** are in the range of 8-11° C over many parts of plains of Northwest India. These are near normal over northern parts of the country.
- ❖ **Heavy to very heavy rainfall** occurred at isolated places over Andaman Islands and **light rainfall** at isolated places over Tamilnadu and Kerala.
- ❖ **Significant rainfall observed from 0830 hrs IST of yesterday to 0830 hrs IST of today (in cm):** Long Island-14.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

Yesterday's low pressure area over south Andaman Sea & neighbourhood has become Well marked low pressure area over Southeast Bay of Bengal at 0530 hours IST of 06th December 2022. It is likely to move west-northwestwards and concentrate into a Depression over Southeast Bay of Bengal by today evening. Thereafter, it is likely to continue to move west-northwestwards, intensify further gradually into a Cyclonic Storm around 07th December evening and reach Southwest Bay of Bengal off north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts by 08th December morning. It will continue to move west-northwestwards towards north Tamil Nadu-Puducherry & adjoining south Andhra Pradesh coasts during subsequent 48 hours.

Warnings:

(i) Rainfall (warning graphics enclosed Annexure I)

- ❖ Light/moderate rainfall at most places with isolated heavy falls very likely over Andaman & Nicobar Islands on 06th December, 2022.
- ❖ Light to moderate rainfall at most places with heavy to very heavy falls at isolated places very likely over coastal Tamilnadu, Puducherry & Karaikal and adjoining areas off south coastal Andhra Pradesh on 08th December.
- ❖ Light to moderate rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy rainfall at isolated places very likely over north coastal Tamilnadu, Puducherry and adjoining south Coastal Andhra Pradesh and isolated heavy to very heavy rainfall likely over north interior Tamilnadu and adjoining Rayalaseema on 09th December.
- ❖ It is likely to reduce with rainfall at many places with heavy to very heavy rainfall at isolated places likely over north Tamilnadu and Rayalaseema and south Andhra Pradesh on 10th December.

(ii) Wind warning:

- ❖ **Squally weather with wind speed reaching 40-45 kmph gusting to 55 kmph** very likely over Andaman & Nicobar Islands and Andaman Sea on 06th December.
- ❖ **Squally wind speed reaching 45-55 kmph gusting to 65 kmph** likely over Southeast Bay of Bengal on 06th and it would increase gradually becoming **50-60 kmph gusting to 70 kmph** on 07th December and then reduce to **40-45 kmph gusting to 55 kmph on 08th Dec.**
- ❖ **Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely** to prevail over Southwest Bay of Bengal on 06th. It would increase gradually becoming **50-60 kmph gusting to 70 kmph** from 07th morning and Gale wind speed reaching **70-80 kmph gusting to 90 kmph likely** over the same region on 08th and 09th. It would decrease thereafter gradually.
- ❖ **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** likely to commence along & off Tamilnadu, Puducherry, south Andhra Pradesh and north Sri Lanka coasts coast from 08th December morning becoming **50-60 kmph gusting to 70 kmph** from 08th December evening, **70-80 kmph gusting to 90 kmph** from 09th December evening to 10th December morning. It is likely to reduce gradually to **50-60 kmph gusting to 70 kmph** by afternoon of 10th December evening and then to **40-50 kmph gusting to 60 kmph** by 10th December night.
- ❖ **Squally wind speed reaching 40-50 kmph gusting to 60 kmph** likely over Gulf of Mannar from 08th December evening becoming **50-60 kmph gusting to 70 kmph** from 09th December evening to 10th December morning. It is likely to reduce gradually thereafter.

(iii) Sea condition

- ❖ **Sea condition likely to be rough to very rough** over Andaman Sea on 06th.
- ❖ **Sea condition likely to be rough to very rough** over Southeast Bay of Bengal during 06th & 7th.
- ❖ **Sea condition likely to be rough to very rough** over Southwest and adjoining areas of Westcentral Bay of Bengal till 7th evening and very rough to high thereafter till 10th evening and improve gradually thereafter.
- ❖ **Sea condition likely to be rough to very rough** along & off South Andhra Pradesh, Tamil Nadu, Puducherry and Sri Lanka coasts on 07th, 08th and 10th and high on 09th December.

(iv) Fishermen Warning (warning graphics enclosed Annexure II)

Fishermen are advised not to venture into:

- ❖ Andaman Sea on 06th December.
- ❖ Southeast Bay of Bengal from 06th-07th December.
- ❖ Southwest Bay of Bengal from 06th-10th December
- ❖ Along & off Sri Lanka coast from 07th-09th December.
- ❖ Along & off Tamilnadu, Puducherry and South Andhra Pradesh coast and Gulf of Mannar from 07th-10th December

(v) Adverse Weather Warning for onshore and off-shore operations

- ❖ Regulate onshore and offshore operations over Southeast Bay of Bengal on 06th & 07th and over Southwest Bay of Bengal, along and off Tamilnadu, Puducherry and South Andhra Pradesh coast and Gulf of Mannar during 08th-10th December.
- ✓ Under the influence of Western Disturbance as a trough in middle and upper tropospheric westerlies along Long.58°E to the North of Lat.33°N, isolated to scattered light/moderate rainfall/snowfall likely over Jammu-Kashmir, Ladakh and Himachal Pradesh during 08th-10th December.

Minimum Temperature and Fog Forecast

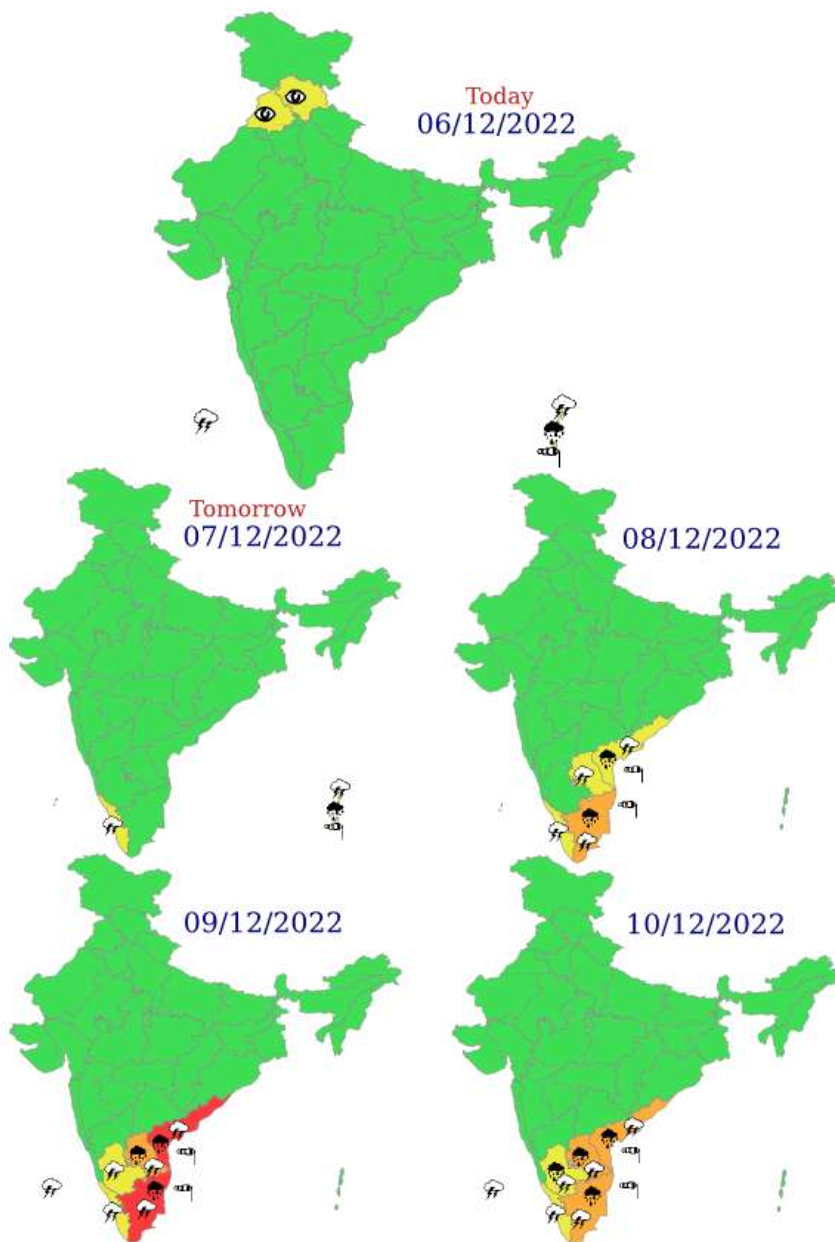
- ❖ No significant change in minimum temperatures likely over East & Central India during next 3 days and rise by 2-3°C during subsequent 2 days. Gradual fall in minimum temperatures by 2-3°C likely over Maharashtra during next 2 days and rise by 2-3°C thereafter. No significant change in minimum temperatures likely over northern parts of the country during next 4-5 days.

- ❖ **Dense fog** very likely in isolated pockets over Himachal Pradesh and Punjab during morning hours of 07th December. Shallow to moderate fog likely at isolated pockets over parts of Haryana, Uttar Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days.

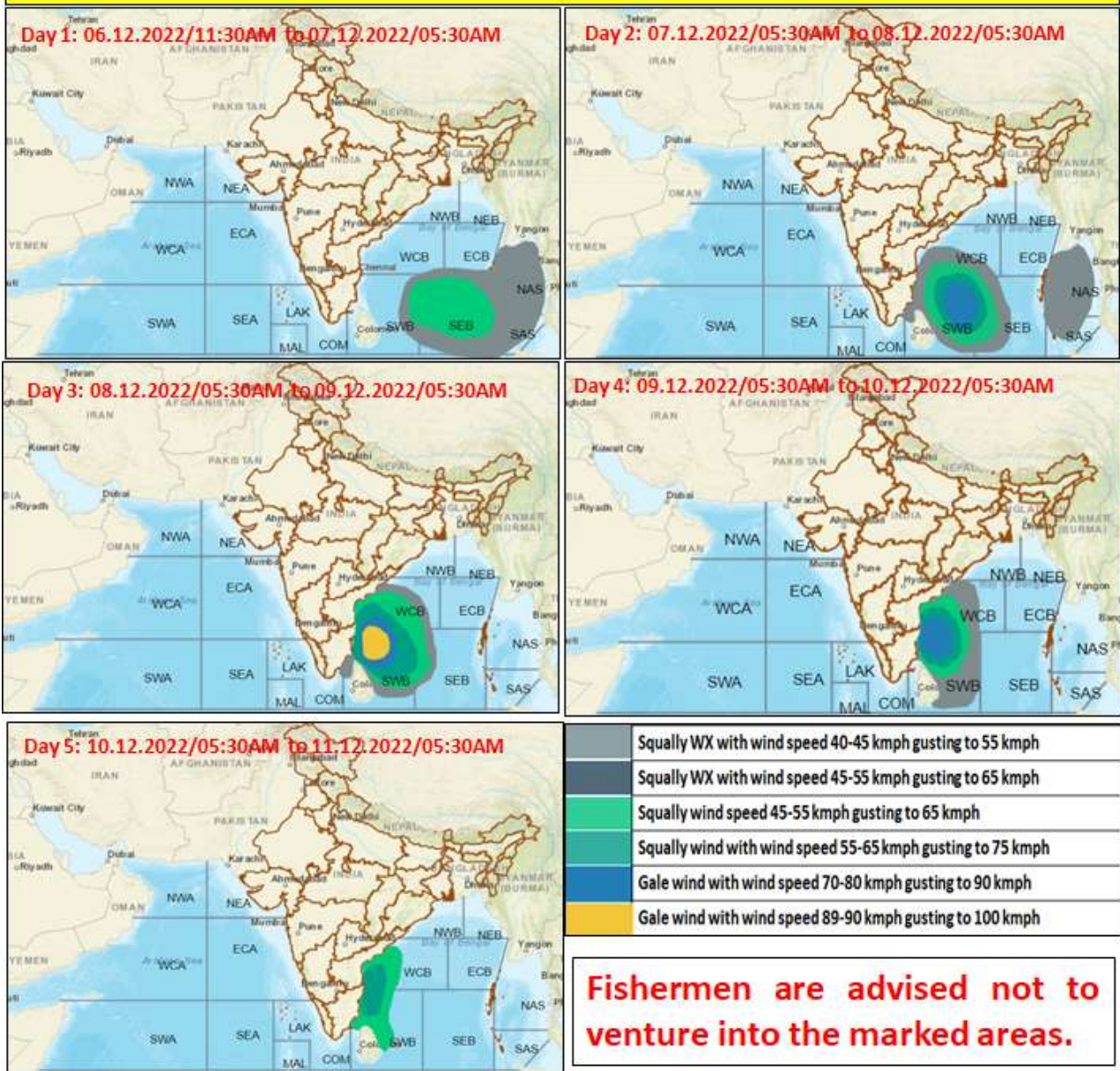
For more details kindly refer:

https://mausam.imd.gov.in/imd_latest/contents/all_india_forecast_bulletin.php

Annexure I



Fishermen warning graphics





OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF WELL MARKED LOW PRESSURE AREA OVER SOUTHEAST BAY OF BENGAL BASED ON 0300 UTC OF 06th DECEMBER,



DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥20 KT)

● LESS THAN 34 KT
 ○ 34-47 KT
 ● ≥ 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ▲ CONE OF UNCERTAINTY
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ ≥ 64 KT (≥118 KMPH)

IMPACT OVER THE SEA

MSW (knot/kmph)	Impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

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