



**India Meteorological Department  
(Ministry of Earth Sciences)**

**NATIONAL BULLETIN NO. 2 (BOB/10/2022)**

**TIME OF ISSUE: 1400 HOURS IST**

**DATED: 22.12.2022**

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**Sub: Depression over Southwest and adjoining Southeast Bay of Bengal**

The depression over Southwest and adjoining Southeast Bay of Bengal moved north-northwestwards with a speed of 20 kmph during past 3 hours and lay centered at 1130 hours IST of today, the 22<sup>nd</sup> December over the same region near latitude 9.5°N and longitude 84.8°E about 400 km east-northeast of Trincomalee (Sri Lanka), 550 km east-southeast of Nagappattinam (Tamil Nadu) and 630 km southeast of Chennai (Tamil Nadu).

It is likely to continue to move north-northwestwards during next 24 hours and thereafter gradually recurve west-southwestwards towards Comorin Area across Sri Lanka during subsequent 48 hours.

**Warnings:**

**Rainfall warning (Graphics enclosed)**

- Light to moderate rainfall at many places with heavy rainfall at isolated places is likely over south coastal Tamil Nadu on 25<sup>th</sup> & 26<sup>th</sup> December 2022.
- Light to moderate rainfall at a few places with heavy rainfall at isolated places is likely over south Kerala on 26<sup>th</sup> December 2022.

## **Wind warning (Graphics enclosed):**

### **Southwest Bay of Bengal along & off Tamil Nadu and Sri Lanka coasts:**

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail till 25<sup>th</sup> December morning becoming 40-50 kmph gusting to 60 kmph till 26<sup>th</sup> morning and decrease thereafter.

### **Adjoining areas of southeast & westcentral Bay of Bengal:**

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail till 24<sup>th</sup> December morning and decrease thereafter.

### **Gulf of Mannar and Comorin Area along & off south Tamil Nadu & west Sri Lanka coasts:**

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on 24<sup>th</sup> December becoming squally wind speed reaching 45-55 kmph gusting to 65 kmph during 25<sup>th</sup> and 26<sup>th</sup> December.

## **Sea condition:**

### **Southwest Bay of Bengal along & off Tamil Nadu and Sri Lanka coasts:**

Sea condition is likely to be rough to very rough till 26<sup>th</sup> December morning and improve thereafter.

### **Adjoining areas of southeast & westcentral Bay of Bengal:**

Sea condition is likely to be rough till 24<sup>th</sup> December morning and improve thereafter.

### **Gulf of Mannar and Comorin Area along & off south Tamil Nadu & west Sri Lanka coasts:**

Sea condition is likely to be rough to very rough during 25<sup>th</sup> and 26<sup>th</sup> December.

## **Fishermen Warning (Graphics Enclosed):**

Fishermen are advised not to venture into

- Southwest Bay of Bengal and along & off Sri Lanka coast during 22<sup>nd</sup> – 25<sup>th</sup> December.
- Gulf of Mannar and Comorin Area along & off south Tamil Nadu and west Sri Lanka coasts during 23<sup>rd</sup>-26<sup>th</sup> December.

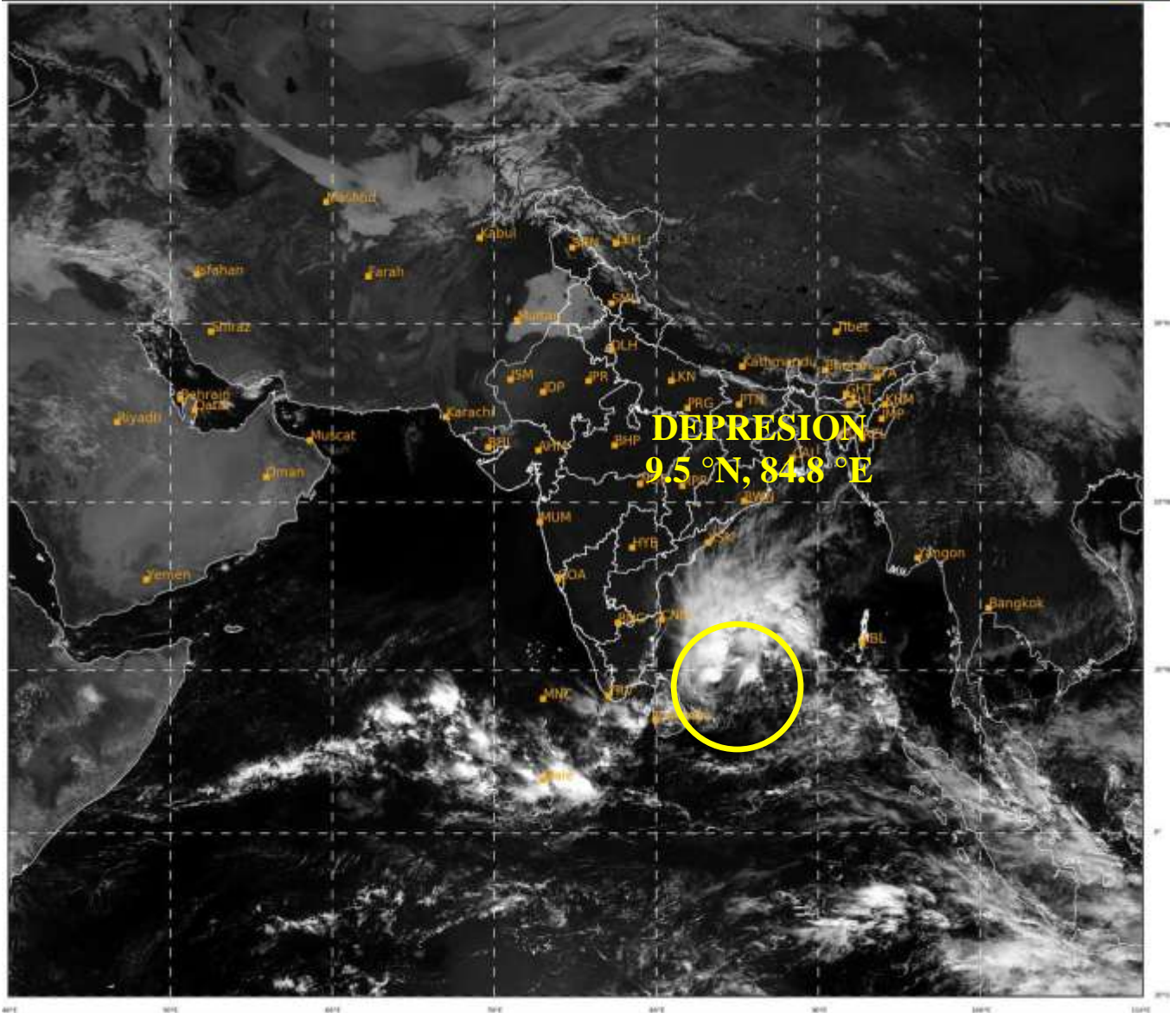
**The System is continuously monitored and next bulletin will be issued at 2030 hours IST of today, the 22<sup>nd</sup> December, 2022.**

**(Ananda Kumar Das)**

**Scientist E, Cyclone Warning Division, New Delhi**

*Copy to:ACWC Mumbai & Chennai/ CWC Ahmedabad/ CWC Thiruvananthapuram/MC Goa*

**LEGEND: Heavy Rainfall:** 64.5 to 115.5mm, **Very Heavy Rainfall:** 115.6 to 204.4mm **Most Places:** more than 76% of total stations, **Isolated Places:** Less than 25% of total





# OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST & ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 0600 UTC OF 22<sup>ND</sup> DECEMBER, 2022



## 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 ( $\geq$  120 KT)



LESS THAN 34 KT



34-47 KT



$\geq$  48 KT



OBSERVED TRACK

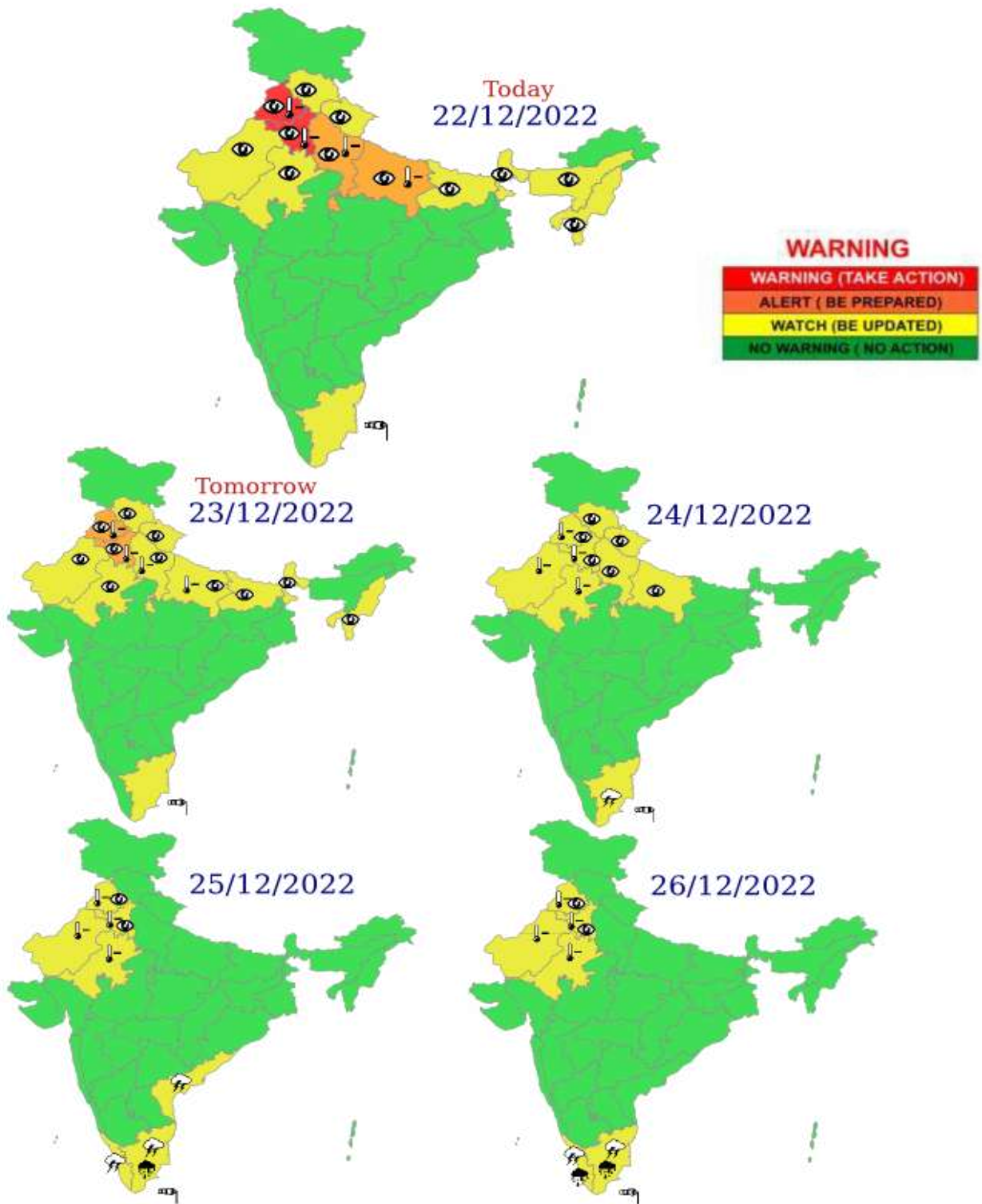


FORECAST TRACK



CONE OF UNCERTAINTY

# WEATHER WARNING GRAPHICS



- |  |  |  |  |
|--|--|--|--|
|  Heavy Rain   |  Heavy Snow |  Thunderstorm |  Dust Storm   |
|  Strong Winds |  Visibility |  Cyclone      |  Squall/ Hail |
|  Frost        |  Cold Wave  |  Heat Wave    |  Sea State    |

## Fishermen warning graphics

Day 1: 22.12.2022/11:30AM to 23.12.2022/05:30AM



Day 2: 23.12.2022/05:30AM to 24.12.2022/05:30AM



Day 3: 24.12.2022/05:30AM to 25.12.2022/05:30AM



Day 4: 25.12.2022/05:30AM to 26.12.2022/05:30AM



Day 5: 26.12.2022/05:30AM to 27.12.2022/05:30AM



Squally WX with wind speed 40-50 kmph gusting to 60 kmph

Squally wind speed 45-55 kmph gusting to 65 kmph

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