



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

NATIONAL BULLETIN NO. 13 (BOB/10/2022)

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Sub: Depression over Southwest Bay of Bengal

The Depression over Southwest Bay of Bengal moved nearly southwestwards with a speed of 20 kmph during past 06 hours and lay centered at 1730 hours IST of today, the 24th December over the same region near latitude 9.7°N and longitude 83.0°E about 230 km east-northeast of Trincomalee (Sri Lanka), 220 km east of Jaffna (Sri Lanka), 360 km east-southeast of Nagappattinam (Tamil Nadu) and 480 km south-southeast of Chennai (Tamil Nadu).

It is likely to weaken slightly, move west-southwestwards and reach near Sri Lanka coast by 25th morning. Thereafter, it would continue to move west-southwestwards across Sri Lanka and reach Comorin Area and neighbourhood by 26th morning.

Warnings:

(i) 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 25th & 26th December 2022.
- Light to moderate rainfall at a few places with heavy rainfall at isolated places is likely over south Kerala on 26th December 2022.
- Light to moderate rainfall at many places with heavy rainfall at isolated places is likely over Lakshadweep Islands on 27th December 2022.

(ii) 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 25th December morning becoming 40-50 kmph gusting to 60 kmph till 26th 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 on 24th December 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 24th December becoming squally wind speed reaching 45-55 kmph gusting to 65 kmph during 25th and 26th December.

Lakshadweep Islands & adjoining Southeast Arabian Sea:

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on 27th December.

Southeast Arabian Sea & adjoining Lakshadweep Islands:

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on 28th 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 26th December morning and improve thereafter.

Adjoining areas of southeast & westcentral Bay of Bengal:

Sea condition is likely to be rough on 24th December 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 25th and 26th December.

Lakshadweep Islands & adjoining Southeast Arabian Sea:

Sea condition is likely to be rough to very rough on 27th December.

Southeast Arabian Sea & adjoining Lakshadweep Islands:

Sea condition is likely to be rough on 28th December.

Fishermen Warning (Graphics Enclosed):

Fishermen are advised not to venture into

- Southwest Bay of Bengal and along & off Sri Lanka coast on 24th & 25th December.
- Adjoining areas of southeast & westcentral Bay of Bengal on 24th December.
- Gulf of Mannar, Comorin Area and along & off south Tamil Nadu and west Sri Lanka coasts during 24th-26th December.
- Sea areas of Lakshadweep Islands & adjoining Southeast Arabian Sea on 27th December.
- Sea areas of Southeast Arabian Sea & adjoining Lakshadweep Islands on 28th December.

The System is continuously being monitored and next bulletin will be issued at 0230 hours IST of tomorrow, the 25th December, 2022.

(Ananda Kumar Das)

Scientist E, Cyclone Warning Division, New Delhi

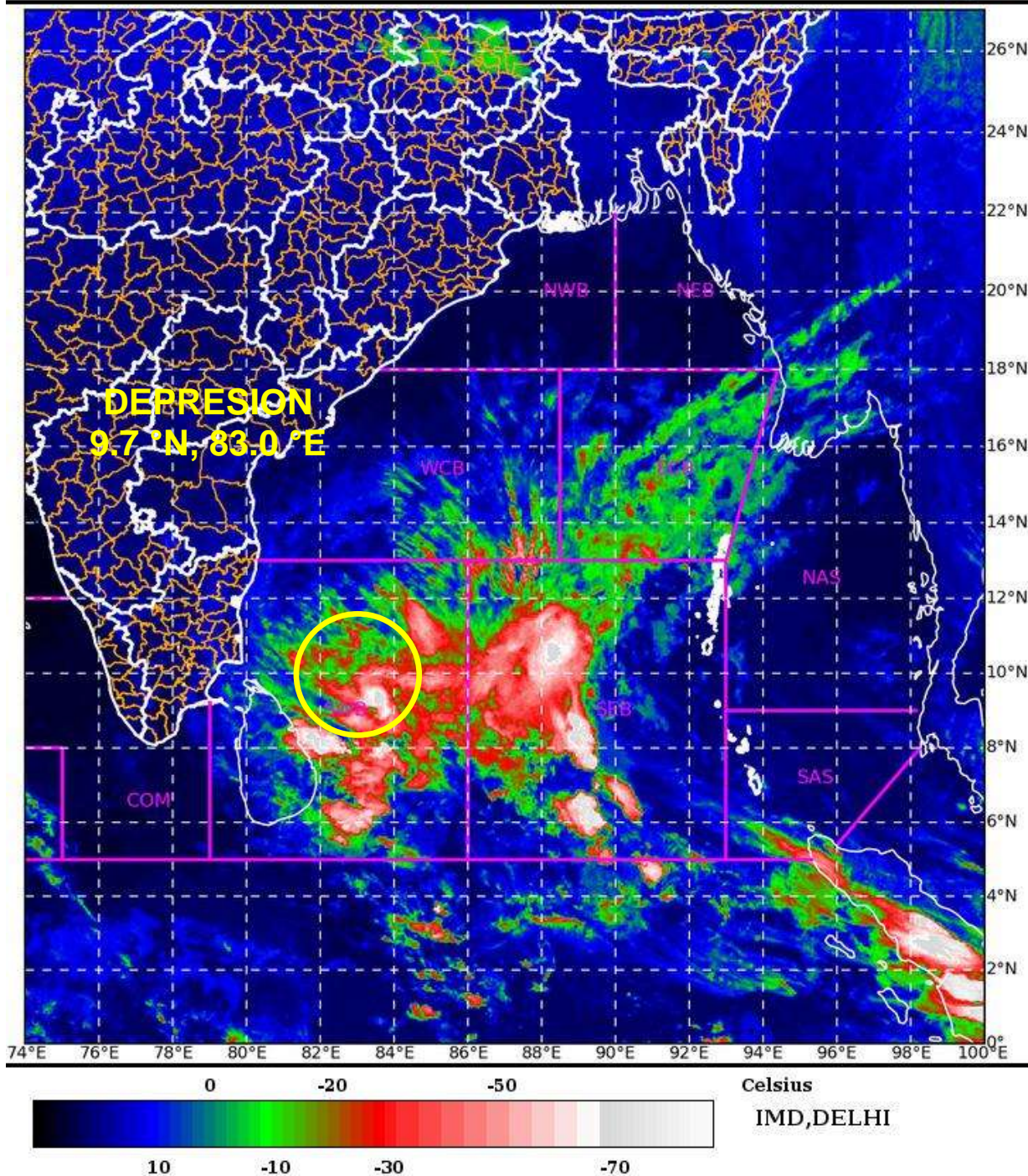
Copy to:ACWC Mumbai & Chennai/ CWC Ahmedabad/ CWC Thiruvananthapuram/MC Goa

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

SAT : INSAT-3DR IMG 24-12-2022/(1345 to 1412) GMT

IMG_TIR1_TEMP 10.8 um 24-12-2022/(1915 to 1942) IST

L1C Mercator






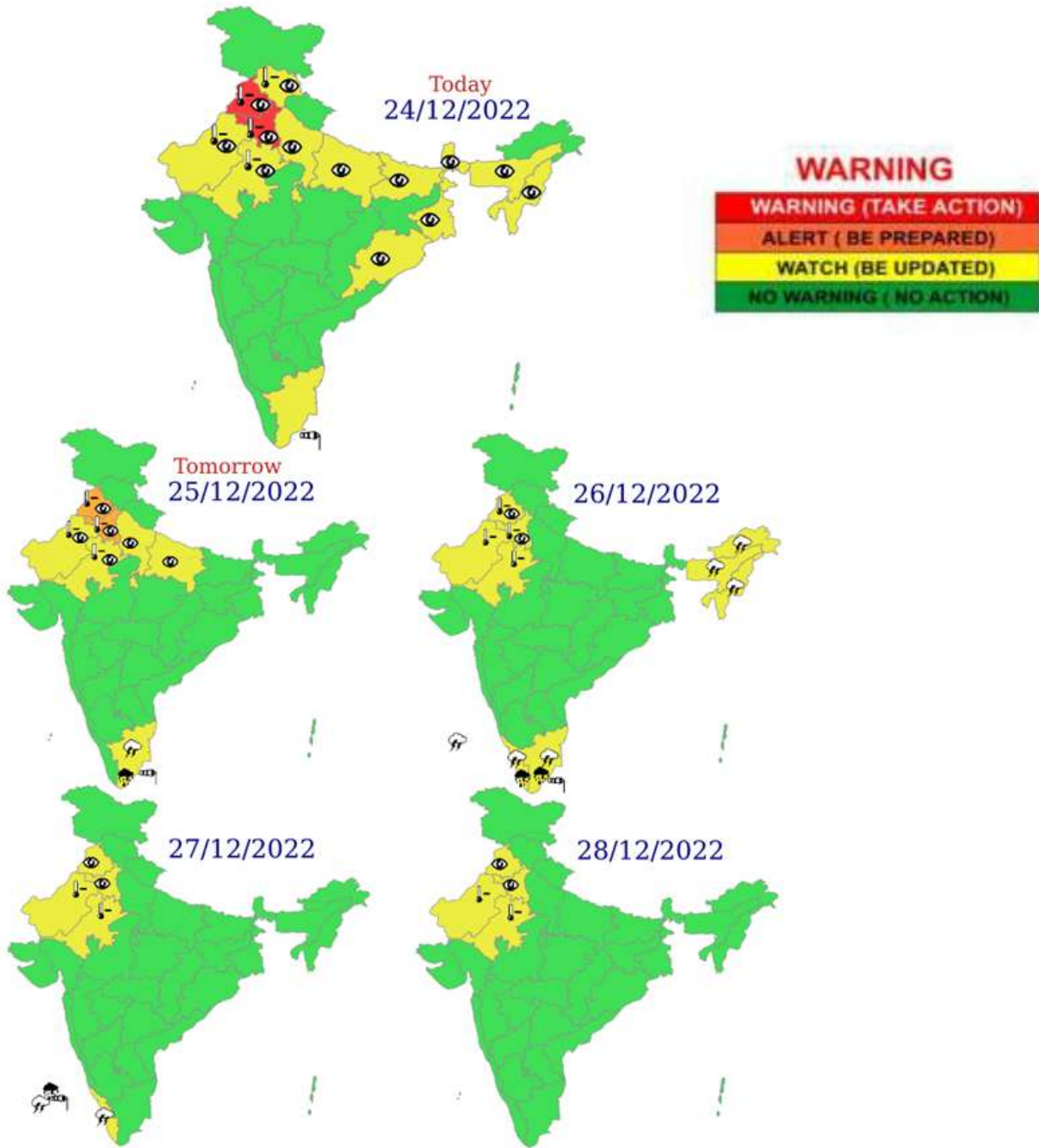
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC OF 24th DECEMBER, 2022



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 (≥ 20 KT)

-  LESS THAN 34 KT
-  34-47 KT
-  ≥ 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: 24.12.2022/11:30AM to 25.12.2022/05:30AM



Day 2: 25.12.2022/05:30AM to 26.12.2022/05:30AM



Day 3: 26.12.2022/05:30AM to 27.12.2022/05:30AM



Day 4: 27.12.2022/05:30AM to 28.12.2022/05:30AM



Day 5: 28.12.2022/05:30AM to 29.12.2022/05:30AM



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.