



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

NATIONAL BULLETIN NO. 04

TIME OF ISSUE:0100 HOURS IST

DATED: 31.01.2023

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Sub: Depression over Southwest & adjoining Southeast Bay of Bengal

The Depression over Southwest & adjoining Southeast Bay of Bengal moved nearly west-northwestwards with a speed of 13 kmph during past 6 hours and lay centered at 2330 hours IST of 30th January, 2023 over the same region near latitude 8.1°N and longitude 85.3°E, about 455 km east-southeast of Trincomalee (Sri Lanka) and 680 km east-southeast of Karaikal (India).

It is very likely to move west-northwestwards till evening of 31st January then recurve gradually west-southwestwards and cross Sri Lanka coast in the forenoon of 01st February 2023.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
30.01.23/2330	8.1/85.3	45-55 gusting to 65	Depression
31.01.23/1130	8.2/84.0	45-55 gusting to 65	Depression
31.01.23/2330	7.8/82.9	45-55 gusting to 65	Depression
01.02.23/1130	7.1/81.8	40-50 gusting to 60	Depression
01.02.23/2330	6.4/80.9	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall (warning graphics enclosed)

- ❖ Light/moderate rainfall at most places with isolated heavy rainfalls very likely over south Tamil Nadu on 1st and 2nd February.

(ii) Wind warning:

❖ **Southwest Bay of Bengal:**

- Squally wind with speed reaching 45-55 kmph gusting to 65 kmph during 31st January to 1nd February.
- Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2nd February.

❖ **Along & off Sri Lanka coast:**

- Squally wind with speed reaching 45-55 kmph gusting to 65 kmph during 31st January to 1nd February.
- Squally wind with speed reaching 40-50 kmph gusting to 60 kmph on 2nd February.

❖ **Gulf of Mannar and Comorin area and along & off south Tamil Nadu & Karaikal coasts:**

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph during 1st to 2nd February.

❖ **Along & off north Tamil Nadu & Puducherry coasts:**

- Strong wind speed reaching 30-40 kmph gusting to 50 kmph during 1st to 2nd February.

(iii) Sea condition

❖ **Sea condition is likely to be rough to very rough**

- Southwest Bay of Bengal and along & off Sri Lanka coast during 31st January to 2nd February.
- Gulf of Mannar and adjoining Comorin area and along & off south Tamil Nadu coast during 1st and 2nd February

❖ **Sea condition is likely to be moderate to rough**

- Along and off north Tamil Nadu & Puducherry coasts during 1st and 2nd February.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into:

- ❖ Southwest Bay of Bengal, Gulf of Mannar, Comorin Area and along & off Sri Lanka and south Tamil Nadu & Karaikal coasts till 2nd February.

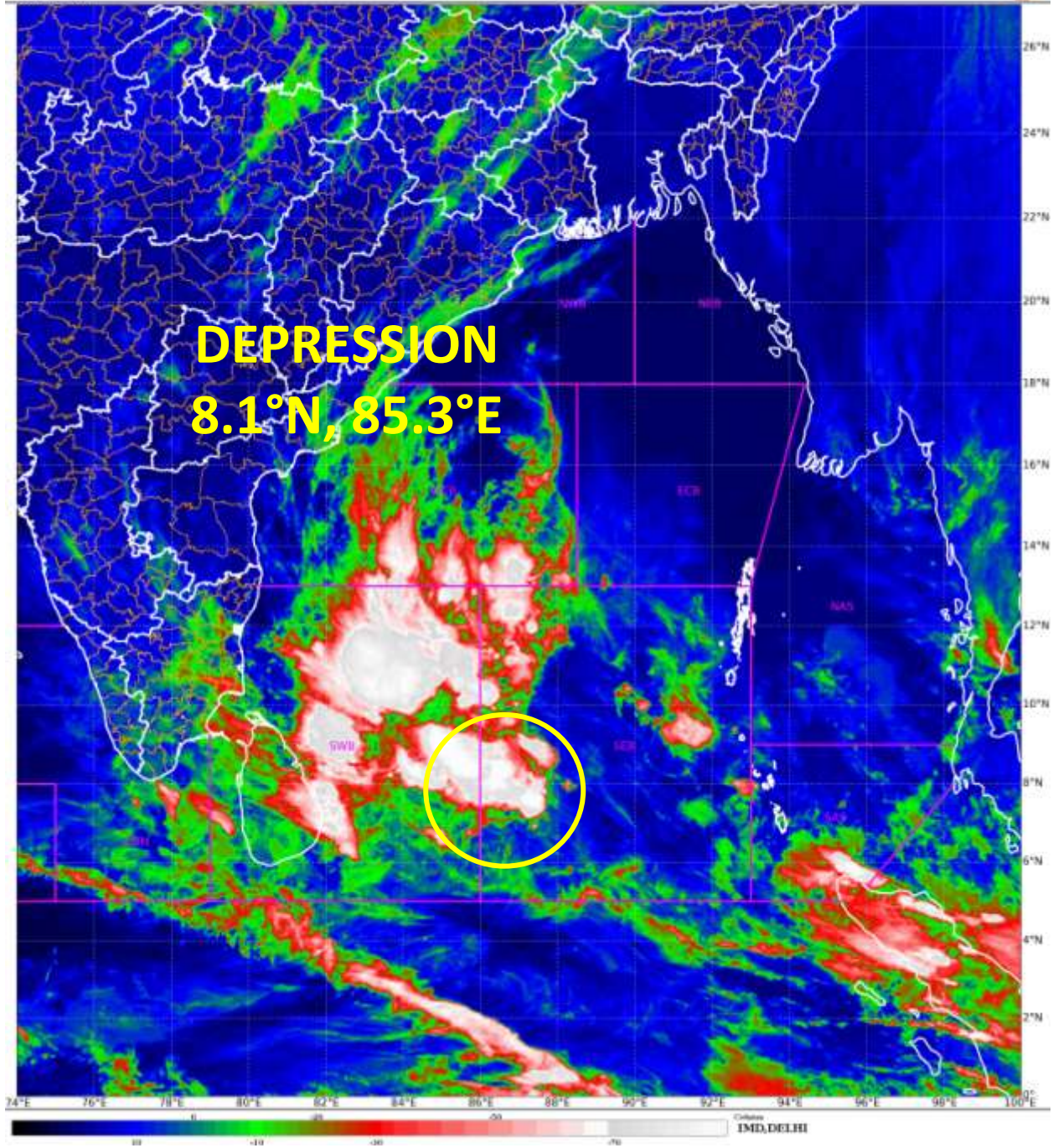
Fishermen out at sea off Tamil Nadu coasts are advised to return to the coasts by 31st January.

The system is under continuous surveillance and the next message will be issued at 0830 hours IST of today, the 31st January, 2023.

(S. P. Singh)
Scientist C, Cyclone Warning, New Delhi

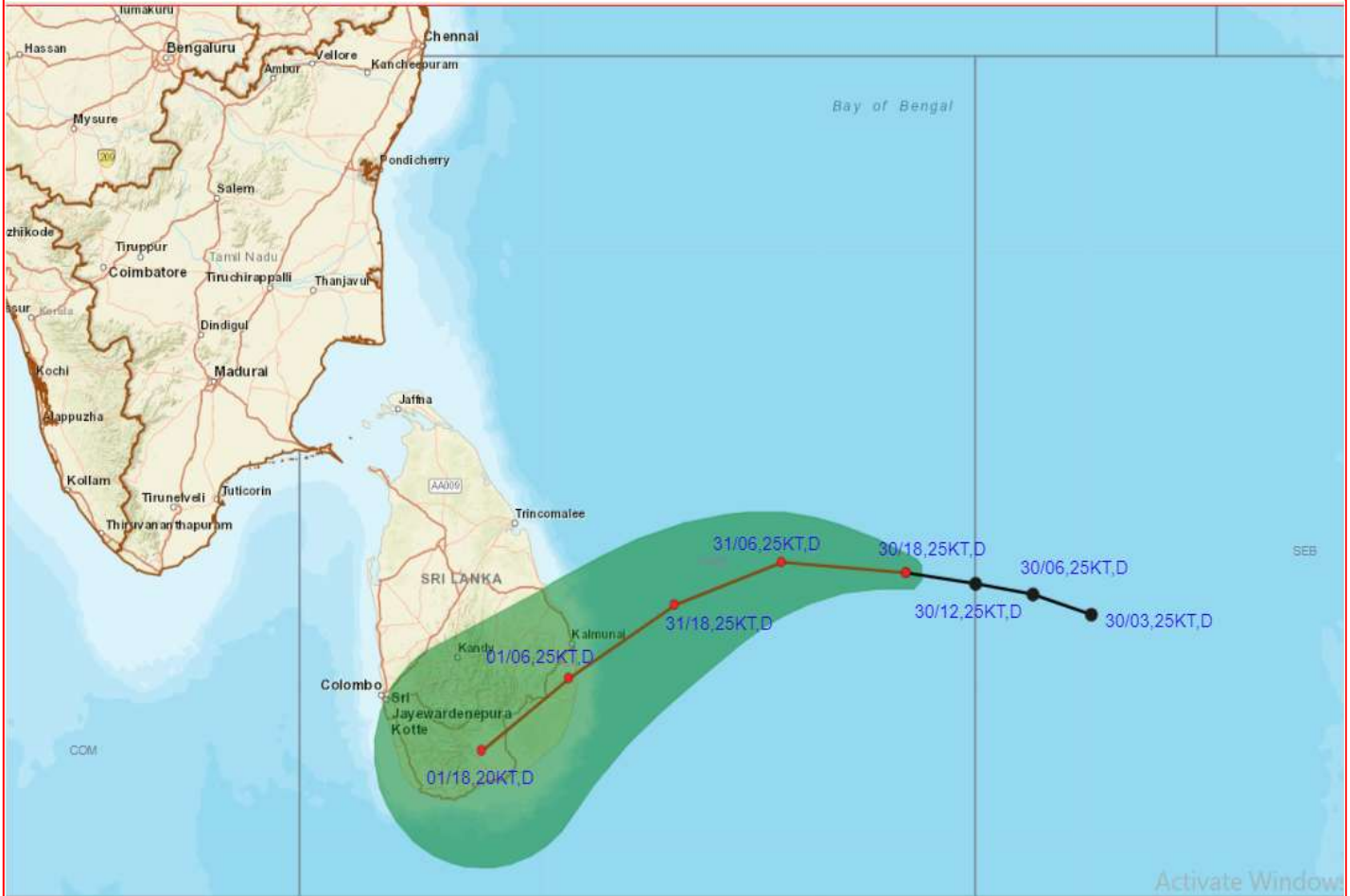
Copy to: ACWC Kolkata/ ACWC Chennai/ CWC Bhubaneswar/CWC Visakhapatnam/MO Port Blair

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





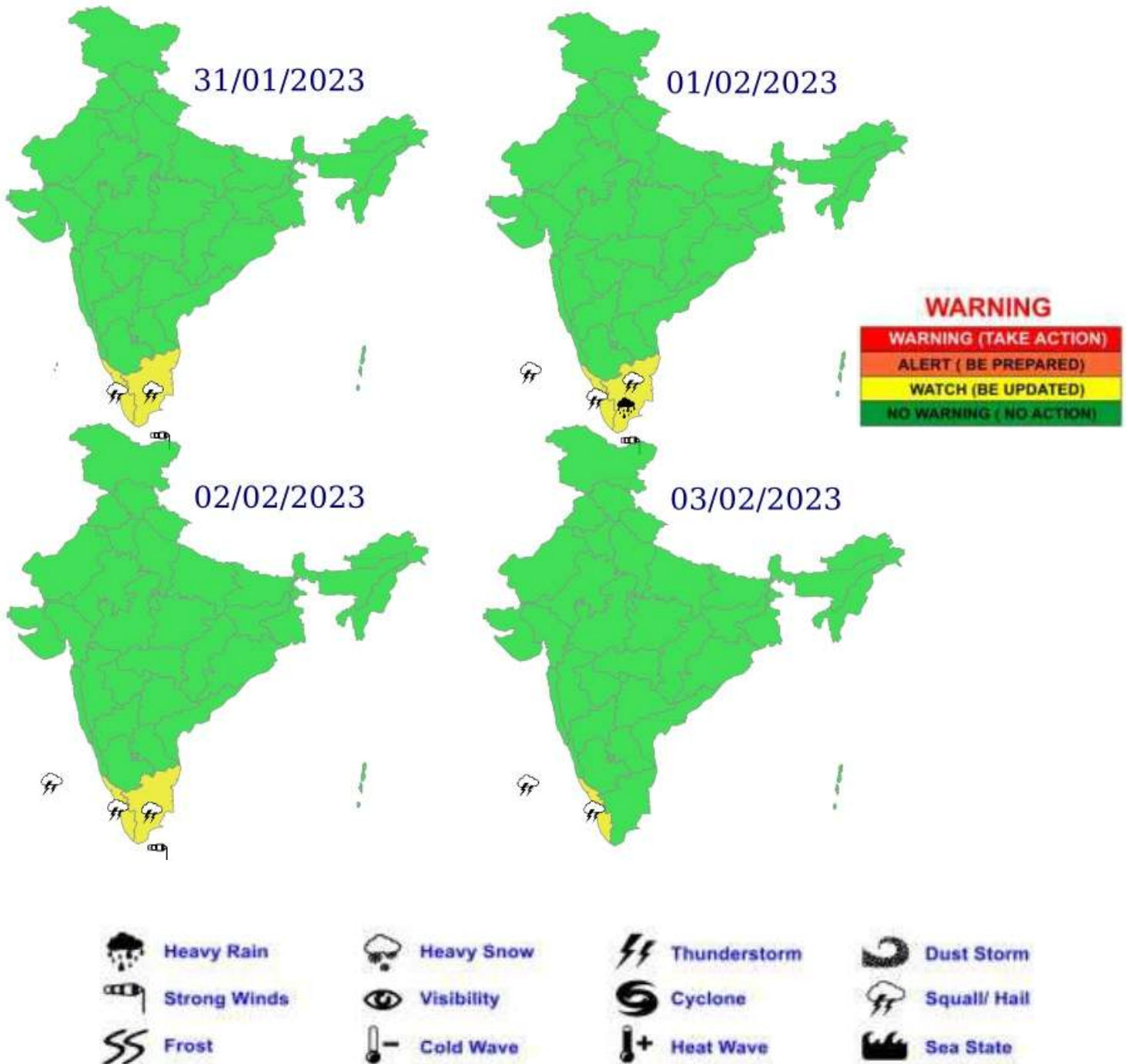
OBSERVED AND FORECAST TRACK OF DEPRESSION OVER SOUTHWEST AND ADJOINING SOUTHEAST BAY OF BENGAL BASED ON 1800 UTC OF 30th JANUARY, 2023.



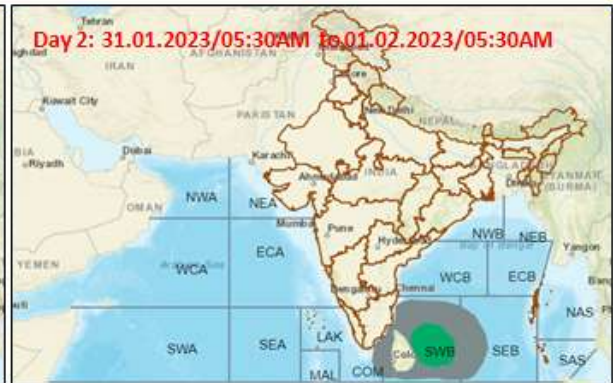
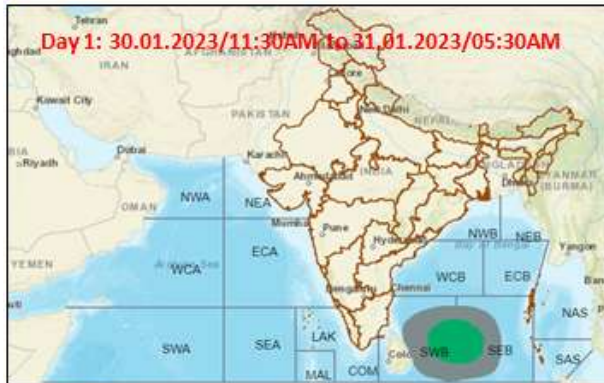
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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

Multi hazard Warning Graphics



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

Fishermen are advised not to venture into the marked areas.