



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

National Bulletin No. 1 (BOB/06/2023)

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Sub: Well Marked Low Pressure Area concentrated into a Depression over Southeast adjoining Southwest Bay of Bengal (Pre-Cyclone Watch: **Yellow Message)**

Yesterday's Well Marked Low Pressure Area over Southeast Bay of Bengal moved west-northwestwards during past 12 hours, concentrated into a Depression and lay centered at 0530 hours IST of today, the 01st December, 2023 over Southeast adjoining Southwest Bay of Bengal near Latitude 9.1°N and Longitude 86.4°E, about 790 km east-southeast of Puducherry, 800 km southeast of Chennai, 990 km southeast of Bapatla and 970 km southeast of Machilipatnam.

It is likely to continue to move west-northwestwards, intensify into a Deep Depression by 2nd and further into a Cyclonic Storm over Southwest Bay of Bengal around 3rd December. Thereafter, it would move northwestwards and cross South Andhra Pradesh and adjoining North Tamil Nadu coast between Chennai and Machilipatnam around evening of 4th December as a **Cyclonic Storm**.

Track & Intensity Forecasts:

Date/Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
01.12.23/0530	9.1/86.4	35-45 kmph gusting to 55 kmph	Depression
01.12.23/1730	9.9/85.4	40-50 kmph gusting to 60 kmph	Depression
02.12.23/0530	10.9/84.0	50-60 kmph gusting to 70 kmph	Deep Depression
02.12.23/1730	11.6/82.7	55-65 kmph gusting to 75 kmph	Deep Depression
03.12.23/0530	12.2/81.9	60-70 kmph gusting to 80 kmph	Cyclonic Storm
03.12.23/1730	12.8/81.2	70-80 kmph gusting to 90 kmph	Cyclonic Storm
04.12.23/0530	13.4/80.8	75-85 kmph gusting to 95 kmph	Cyclonic Storm
04.12.23/1730	14.4/80.3	80-90 kmph gusting to 100 kmph	Cyclonic Storm
05.12.23/0530	15.3/80.2	70-80 kmph gusting to 90 kmph	Cyclonic Storm
05.12.23/1730	16.2/80.7	60-70 kmph gusting to 80 kmph	Cyclonic Storm

Warnings:

(i) Rainfall Warning (graphics enclosed):

- Light to moderate rainfall at most places with **isolated heavy rainfall** is likely over Andaman & Nicobar Islands on 1st December.
- **North Coastal Tamil Nadu & Puducherry:** Light to moderate rainfall at most places with **isolated heavy rainfall** is likely over north Coastal Tamil Nadu & Puducherry during 2nd to 4th December with **isolated very heavy rainfall** during 3rd to 4th December.
- **Coastal Andhra Pradesh:** Light to moderate rainfall at most places likely over **isolated heavy rainfall** during 3rd to 5th December. **Heavy to very heavy rainfall** at a few places and **isolated extremely heavy rainfall** is likely during 3rd to 4th December. Isolated **heavy to very heavy rainfall** is likely over south Coastal Andhra Pradesh and isolated **extremely heavy rainfall** is likely over north Coastal Andhra Pradesh on 5th December.
- **Odisha:** Light to moderate rainfall at most places with **isolated heavy rainfall** is likely over south Coastal and adjoining south Interior Odisha on 4th and **isolated heavy to very heavy rainfall** over the same region on 5th December.
- Light to moderate rainfall at most places with **isolated heavy rainfall** is likely over Rayalaseema on 3rd & 4th December.

(ii) Wind warning:

• Southeast Bay of Bengal:

Squally weather with wind speed reaching **40-50 kmph gusting to 60 kmph** is likely to prevail over Southeast Bay of Bengal during 1st & 2nd December and likely to decrease thereafter.

• Southwest Bay of Bengal along & off north Tamil Nadu-Puducherry Coasts:

Squally wind speed reaching **35-45 kmph gusting to 55 kmph** prevailing over Southwest Bay of Bengal likely to gradually increase becoming **50-60 kmph gusting to 70 kmph** from 2nd December morning. It would increase further becoming **Gale Wind** speed reaching **60-70 kmph gusting to 80 kmph** from 3rd December morning and **70-80 kmph gusting to 90 kmph** from 3rd evening for subsequent 24 hours.

• Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:

Squally wind speed reaching **35-45 kmph gusting to 55 kmph** likely over westcentral Bay of Bengal from 2nd December evening, likely to gradually increase becoming **55-65 kmph gusting to 75 kmph** from 3rd December morning, likely to increase becoming **Gale Wind** speed reaching **60-70 kmph gusting to 80 kmph** 3rd evening and **80-90 kmph gusting to 100 kmph** from 4th evening for subsequent 12 hours. It would gradually decrease thereafter.

• Along & off north Andhra Pradesh Coast:

Squally wind speed reaching **45-55 kmph gusting to 65 kmph** likely from 4th December evening, likely to gradually increase becoming **55-65 kmph gusting to 75 kmph** from 5th December evening for subsequent 12 hours. It would gradually decrease thereafter.

(iii) Sea Condition:

• **Southeast Bay of Bengal:**

Rough to very Rough Sea condition is likely over Southeast Bay of Bengal during 01st-02nd December.

• **Southwest Bay of Bengal along & off north Tamil Nadu-Puducherry Coasts:**

Rough to Very Rough sea condition prevailing over the region likely to become **very rough to high** from 3rd December morning for subsequent 24 hours and improve thereafter gradually.

• **Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:**

Rough to Very Rough to sea condition likely from 2nd December evening, becoming **very rough to high** from 3rd December morning till 5th December.

• **Along & off south Andhra Pradesh Coast:**

Rough to Very Rough to sea condition likely from 4th December evening till 5th December.

(iv) Fishermen Warning (graphics attached):

Fishermen are advised not to venture into:

- Southeast Bay of Bengal during 1st to 2nd December.
- Southwest Bay of Bengal and along & off Tamil Nadu-Puducherry Coasts during 1st to 4th December.
- Westcentral Bay of Bengal and along & off Andhra Pradesh Coast from 2nd December morning to 5th December.

The Fishermen out at sea are advised to return to coast by 1st December.

(v) Damage Expected over coastal districts of south Andhra Pradesh and adjoining coastal districts of north Tamil Nadu-Puducherry:

- Damage to thatched huts.
- Breaking of tree branches and uprooting of small & medium sized trees.
- Minor damage to power and communication lines due to breaking of branches and uprooting of trees.
- Major damage to Kutcha and minor damage to Pucca roads due to heavy rain.
- Damage to paddy crops, horticultural crops and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments

(vi) Action Suggested for coastal districts of south Andhra Pradesh and adjoining coastal districts of north Tamil Nadu-Puducherry:

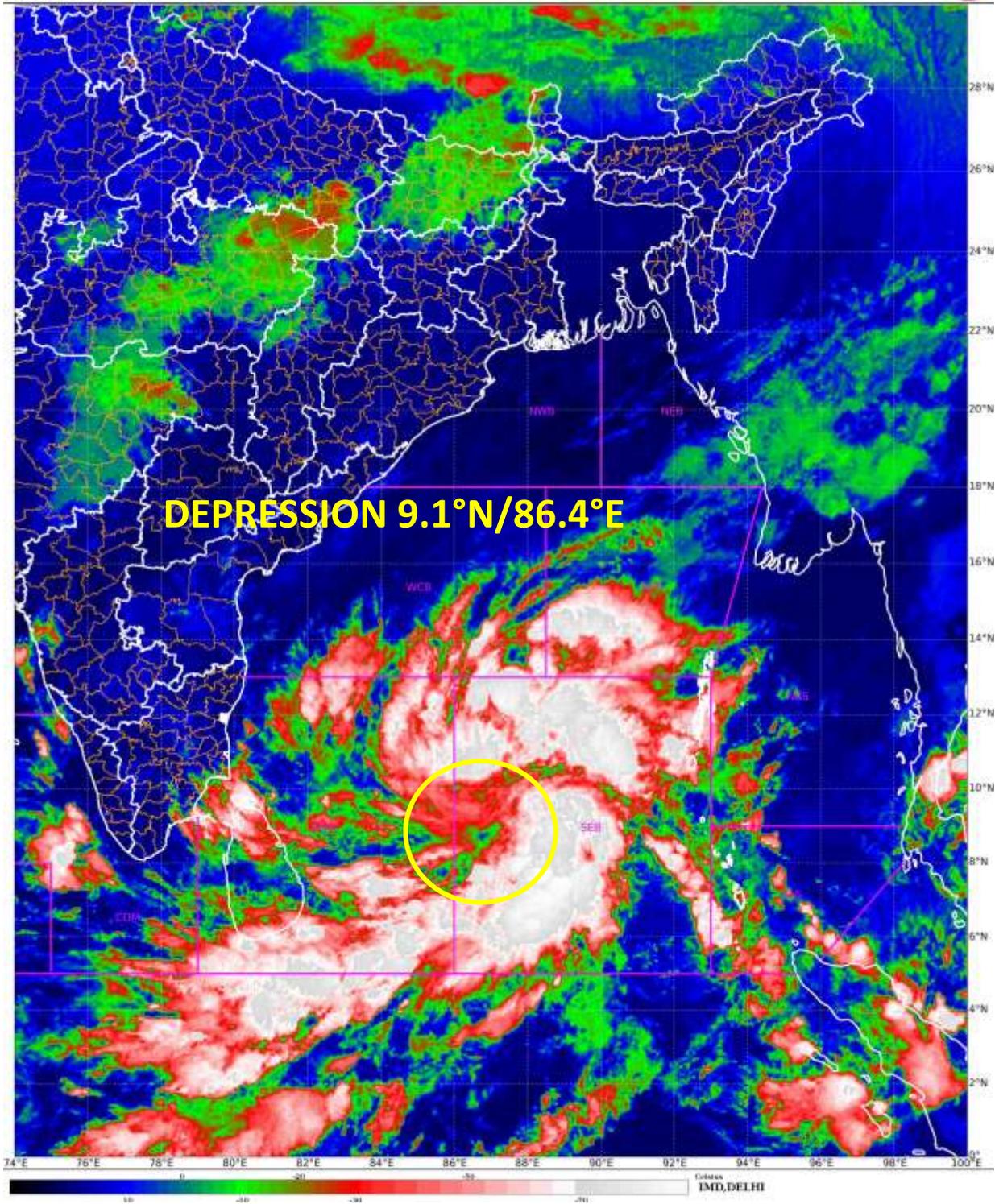
- Total suspension of fishing operations.
- Fishermen out at sea are advised to return to coast by 1st December
- Shipping operations need to be regulated
- Onshore & Offshore operation need to be regulated.

The system is under continuous surveillance and the next message will be issued at 1130 hours IST of today, the 01st December, 2023.

(Ananda Kumar Das)

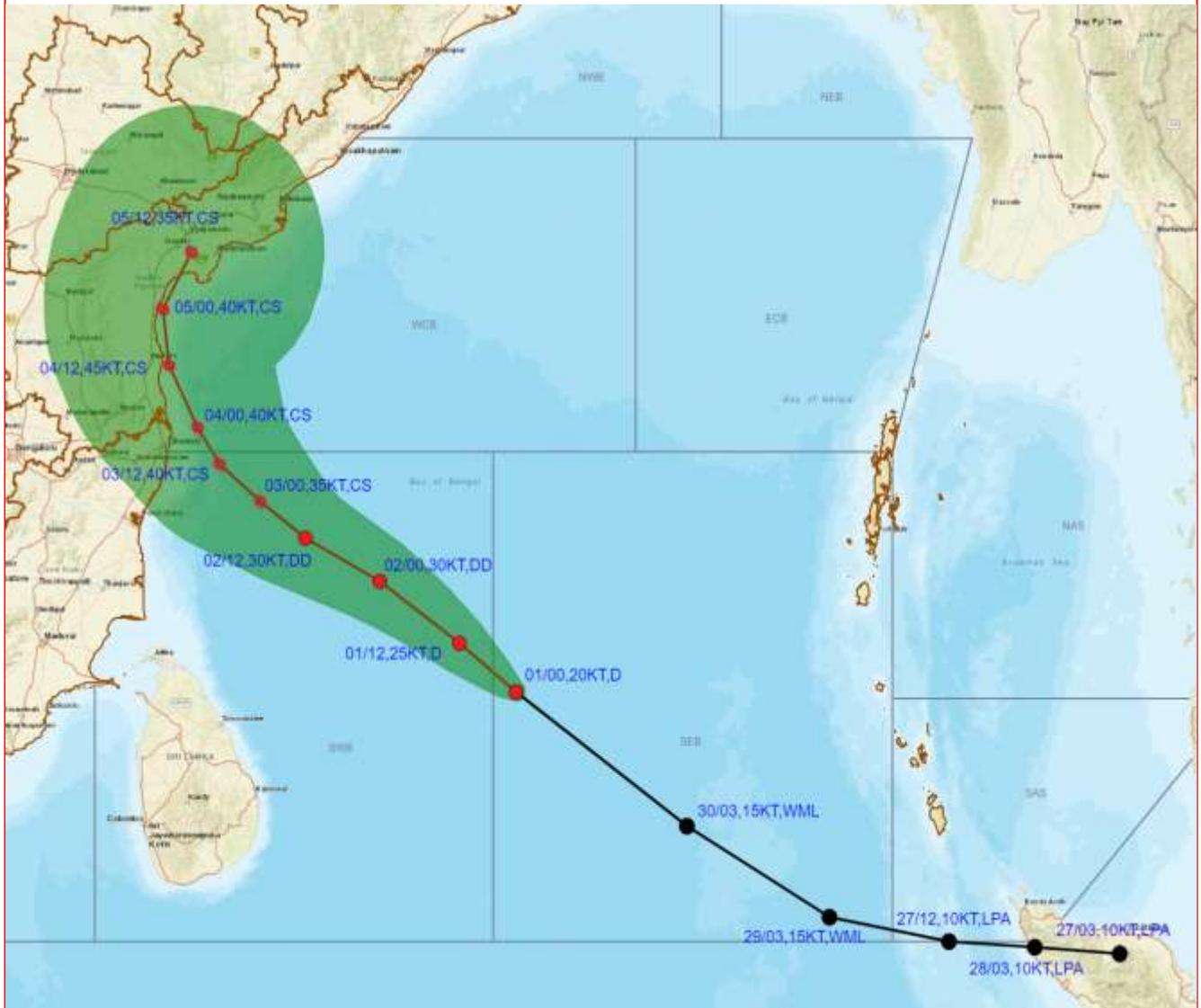
Scientist F, Cyclone Warning, New Delhi

Copy to: ACWC Mumbai/ ACWC Chennai/ ACWC Kolkata/ CWC Ahmedabad/ CWC Bhubaneswar/ CWC Vishakhapatnam/ CWC Thiruvananthapuram/ MC Goa





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY IN ASSOCIATION WITH DEPRESSION OVER SOUTHEAST ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 01ST DECEMBER 2023.

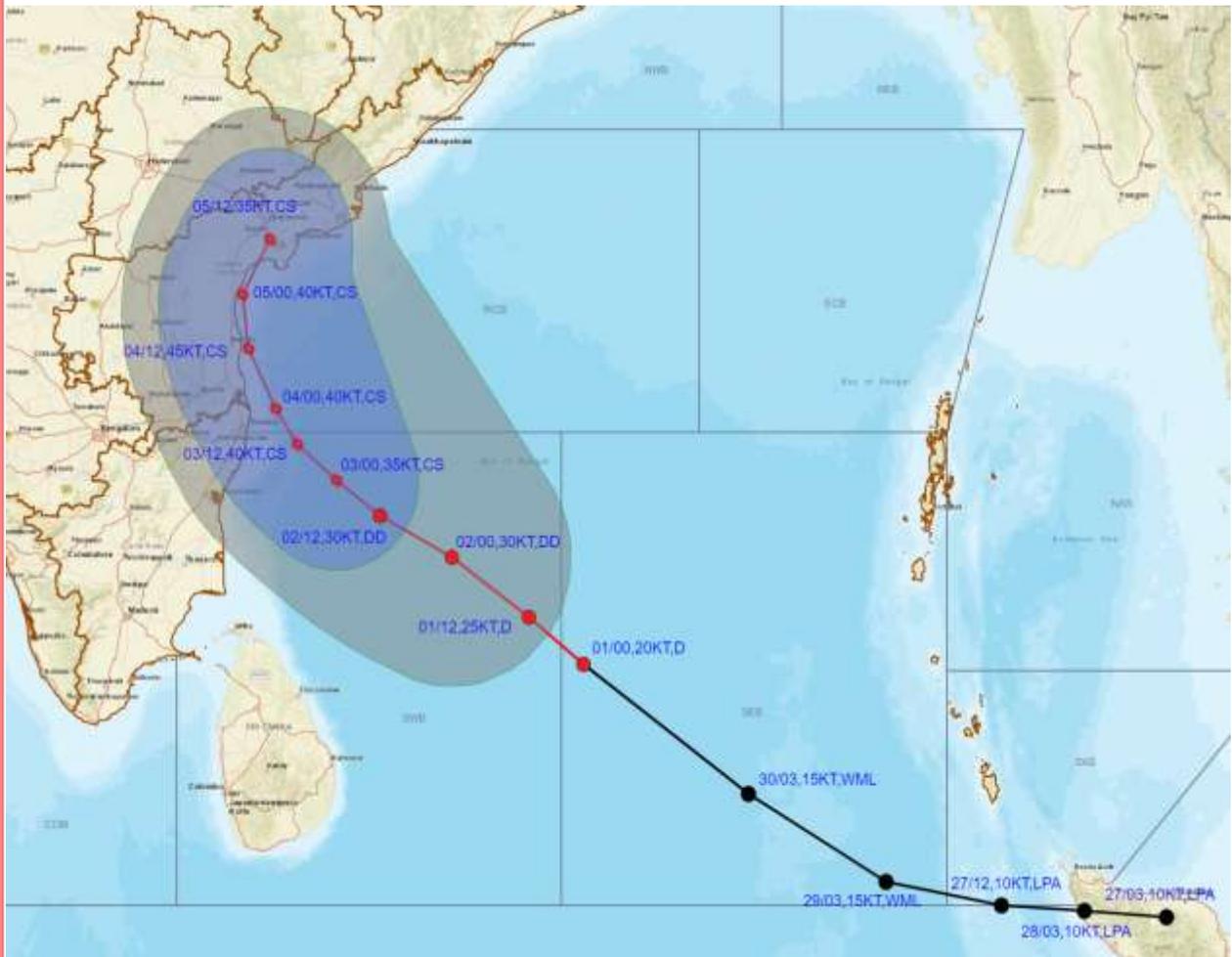


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM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



OBSERVED AND FORECAST TRACK ALONG WITH QUADRANT WIND DISTRIBUTION IN ASSOCIATION WITH DEPRESSION OVER SOUTHEAST ADJOINING SOUTHWEST BAY OF BENGAL BASED ON 0000 UTC (0530 IST) OF 01ST



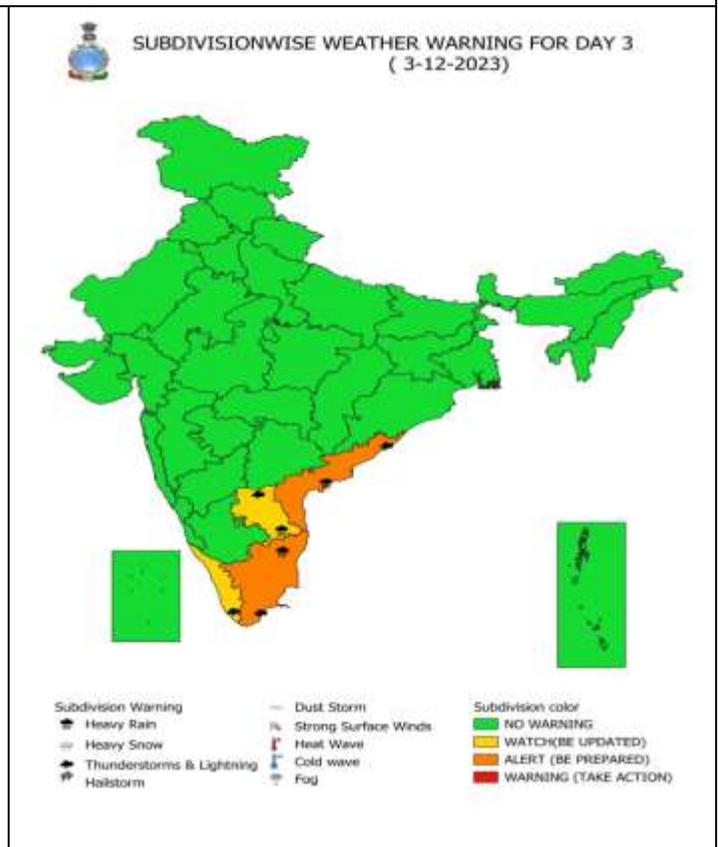
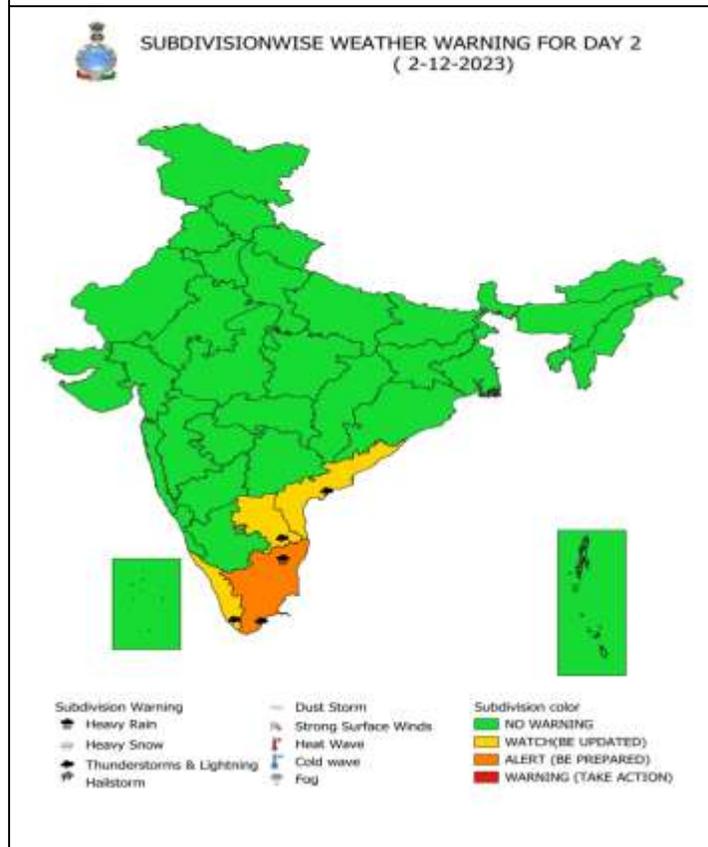
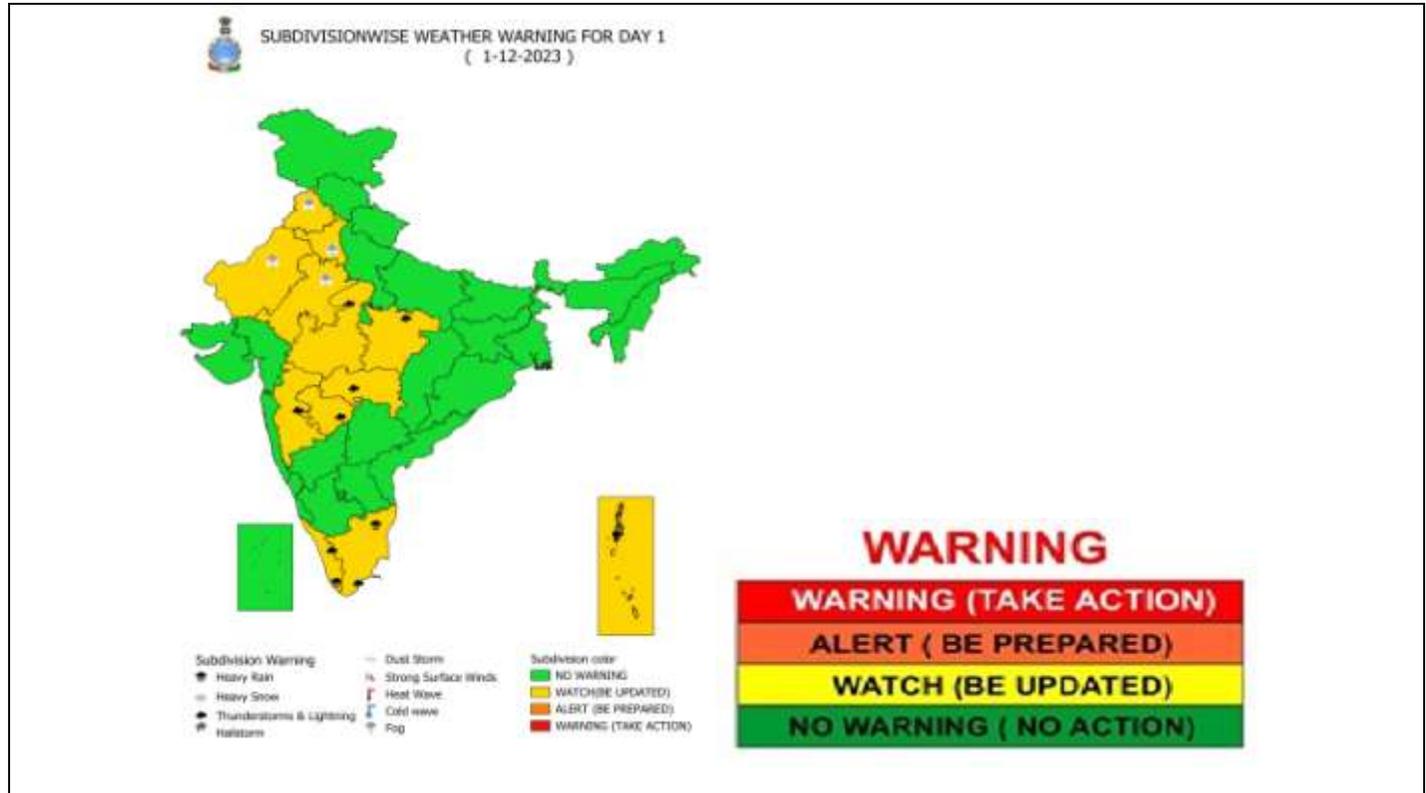
DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (≥ 120 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

Weather Warning Graphics





**SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(4-12-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



**SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(5-12-2023)**



- | | | |
|----------------------------|----------------------|--------------------------|
| Subdivision Warning | Dust Storm | Subdivision color |
| Heavy Rain | Strong Surface Winds | NO WARNING |
| Heavy Snow | Heat Wave | WATCH (BE UPDATED) |
| Thunderstorms & Lightning | Cold wave | ALERT (BE PREPARED) |
| Hailstorm | Fog | WARNING (TAKE ACTION) |



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: 01.12.2023/05:30AM to 02.12.2023/05:30AM



Day 2: 02.12.2023/05:30AM to 03.12.2023/05:30AM



Day 3: 03.12.2023/05:30AM to 04.12.2023/05:30AM



Day 4: 04.12.2023/05:30AM to 05.12.2023/05:30AM



Day 5: 05.12.2023/05:30AM to 06.12.2023/05:30AM



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

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

Squally wind with speed 50-60 kmph gusting to 70 kmph

CS with Gale wind speed 60-90 kmph gusting to 110 kmph

Fishermen are advised not to venture into the marked areas.