



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

NATIONAL BULLETIN NO. 09 (ARB/03/2022)

TIME OF ISSUE:0830 HOURS IST

DATED: 16.12.2022

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**Sub: (A) Deep Depression over Eastcentral & adjoining Westcentral Arabian Sea
(B) Low pressure area over Southeast Bay of Bengal & adjoining areas of East
Equatorial Indian Ocean**

(A) Deep Depression over Eastcentral & adjoining Westcentral Arabian Sea

Deep Depression over Eastcentral & adjoining Westcentral Arabian Sea moved westwards with a speed of 12 kmph during past 06 hours and lay centered at 0530hrs IST of today, the 16th December 2022 over the same area near latitude 14.1°N and longitude 65.1°E about 890 km west-northwest of Aminidivi (Lakshadweep), about 950 km west-southwest of Panjim (Goa) and 1220km east-southeast of Salalah (Oman).

It is very likely to move nearly westwards and weaken gradually into a Depression during next 12 hours. Thereafter, it would move west-southwestwards and weaken further.

Forecast Track and Intensity:

Date/Time(IST)	Forecast Lead Period	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (kmph)	Category of cyclonic disturbance
15.12.22/0530	00	14.1/65.1	55-65 gusting to 75	Deep Depression
16.12.22/1730	12	14.0/63.7	45-55 gusting to 65	Depression
17.12.22/0530	24	13.8/62.2	40-50 gusting to 60	Depression
17.12.22/1730	36	13.6/60.6	25-35 gusting to 45	Well marked Low

Warnings:

(i) **Heavy Rainfall warning: No warning** as the deep depression is moving away from Indian coast.

(ii) **Wind warning (warning graphics enclosed):**

- **Eastcentral Arabian Sea: Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** is prevailing around the system center and is likely to decrease gradually becoming 45-55 kmph gusting to 65 kmph by 16th evening. It will gradually decrease further becoming 35-45 kmph gusting to 55 kmph by 17th morning.
- **Westcentral Arabian Sea: Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** is prevailing over Westcentral Arabian Sea. It is likely to continue till 16th December evening. It will decrease gradually thereafter becoming 40-50 kmph gusting to 60 kmph by 17th morning and improve thereafter.
- **Southwest Arabian Sea: Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is prevailing over the region and is likely to become 45-55 kmph gusting to 65 kmph during 16th evening to 17th December morning. It will gradually decrease thereafter.

(iii) **Sea Condition**

- ❖ **Eastcentral Arabian Sea: Sea Condition** is likely to be rough to very rough till 17th morning and improve thereafter.
- ❖ **Westcentral Arabian Sea: Sea Condition** is likely to be rough to very rough till 17th December morning and improve thereafter.
- ❖ **Southwest Arabian Sea: Sea Condition** is likely to be rough becoming rough to very rough till 17th December morning and improve thereafter.

(iv) **Fishermen Warning:**

Fishermen are advised not to venture into

- ❖ **Eastcentral Arabian Sea** till morning of 17th December.
- ❖ **Westcentral & Southwest Arabian Sea** till 17th December.

(B) **Low pressure area over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean**

The **Low Pressure Area** over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean persists over the same region at 0530 hours IST of today, the 16th December. It is likely to move westwards and maintain its intensity over South Bay of Bengal till morning of 17th December 2022.

Warnings:

(i) **Heavy Rainfall Warning:**

Light to moderate rainfall at many places with heavy rainfall at isolated places is very likely over Andaman & Nicobar Islands on 16th December, 2022.

(ii) Wind warning:

- ❖ **Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph** is very likely over south Andaman Sea till morning of 17th December.
- ❖ **Squally wind speed reaching 35-45 kmph gusting to 55 kmph** is likely over Southeast Bay of Bengal till morning of 17th December.
- ❖ **Squally wind speed reaching 35-45 kmph gusting to 55 kmph** is likely to prevail over Southwest Bay of Bengal on 16th and 17th December

(iii) Sea condition: Sea condition is likely to be rough over

- ❖ South Andaman Sea till morning of 17th December.
- ❖ Southeast Bay of Bengal till morning of 17th December.
- ❖ Southwest Bay of Bengal on 16th and 17th December.

(iv) Fishermen Warning (warning graphics enclosed)

Fishermen are advised not to venture into:

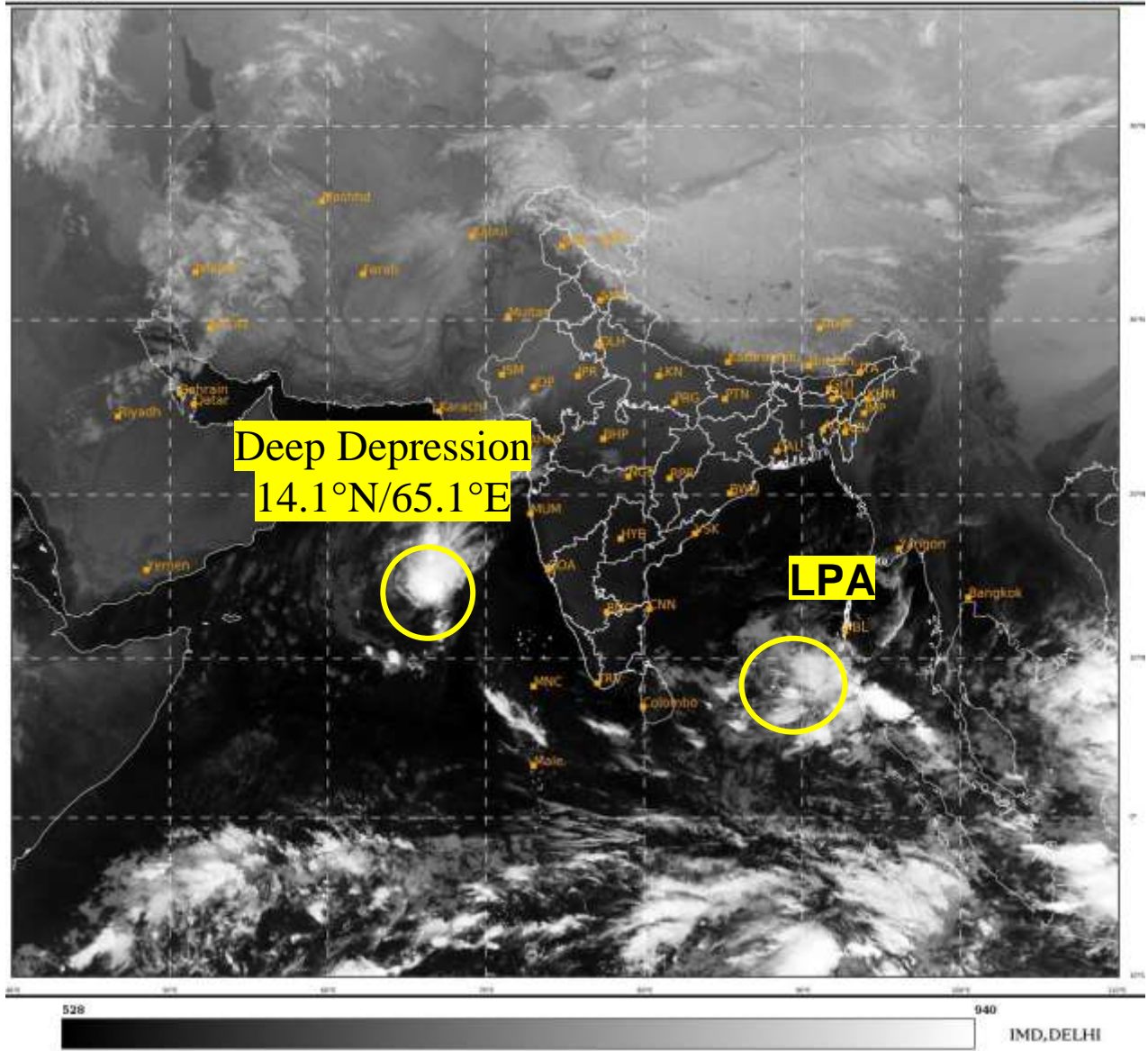
- ❖ South Andaman Sea till morning of 17th December.
- ❖ Southeast Bay of Bengal till morning of 17th December.
- ❖ Southwest Bay of Bengal on 16th and 17th December.

Both the systems are under continuous surveillance and the next message will be issued at 1130 hours IST of 16th December, 2022.

(R. K. Jenamani)
Scientist F, Cyclone Warning Division, New Delhi

Copy to: ACWC Mumbai/ ACWC 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



LPA: Low Pressure Area



OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER EASTCENTRAL ADJOINING WESTCENTRAL ARABIAN SEA BASED ON 0000 UTC OF 16TH DECEMBER, 2022

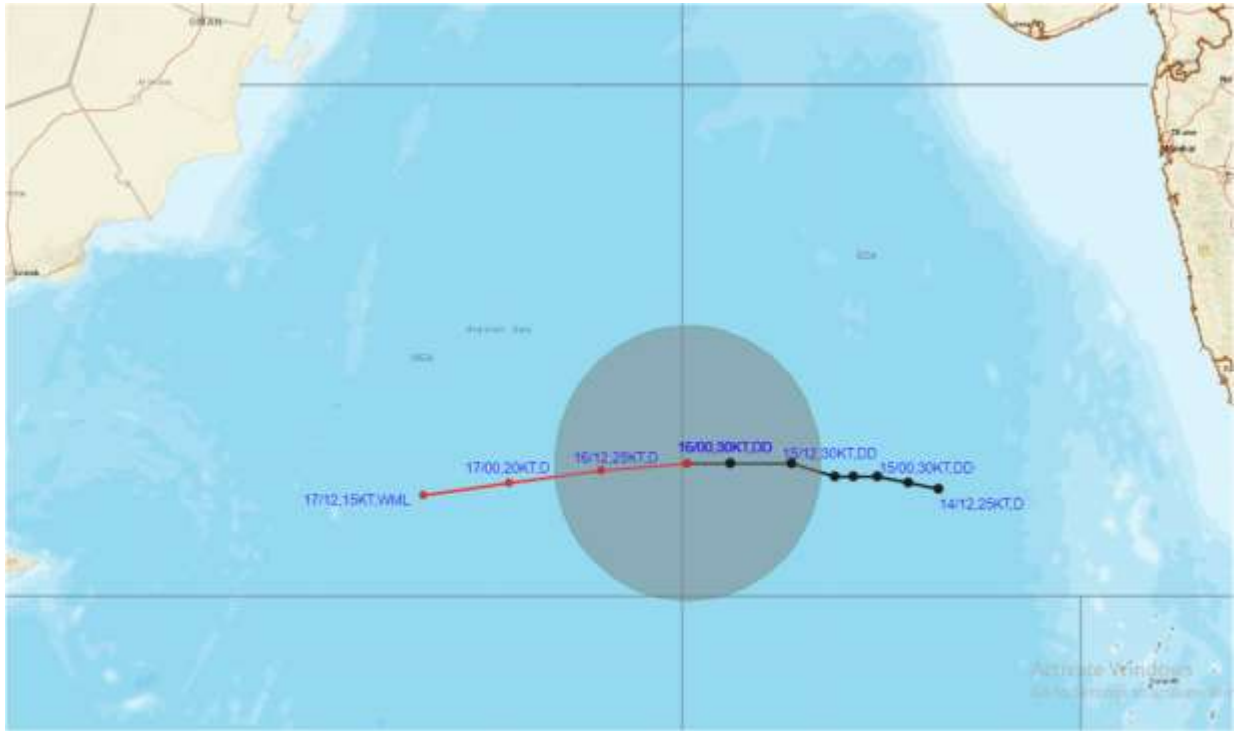


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION OVER EASTCENTRAL ADJOINING WESTCENTRAL ARABIAN SEA BASED ON 0000 UTC OF 16TH 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 (≥ 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)

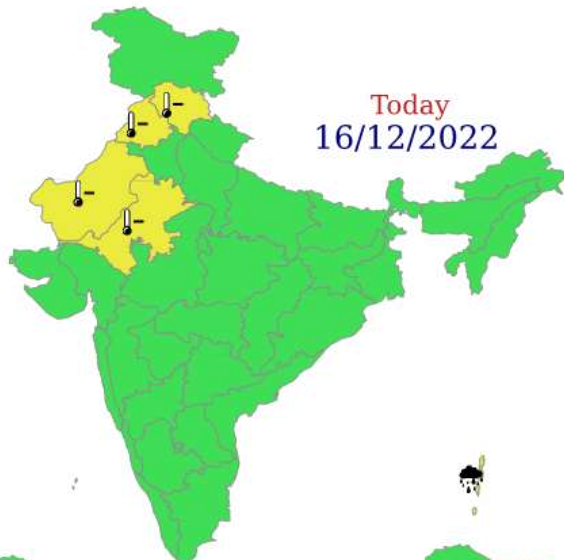
■ 34-49 KT (62-91 KMPH)

■ 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



WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)



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

Fishermen warning graphics

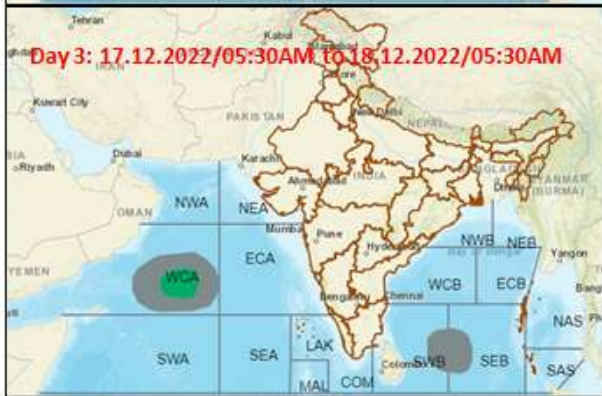
Day 1: 15.12.2022/11:30AM to 16.12.2022/05:30AM



Day 2: 16.12.2022/05:30AM to 17.12.2022/05:30AM



Day 3: 17.12.2022/05:30AM to 18.12.2022/05:30AM



Day 4: 18.12.2022/05:30AM to 19.12.2022/05:30AM



Day 5: 19.12.2022/05:30AM to 20.12.2022/05:30AM



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

Squally wind speed 45-55 kmph gusting to 65 kmph

Squally wind speed 55-65 kmph gusting to 75 kmph

Fishermen are advised not to venture into the marked areas.