

India Meteorological Department (Ministry of Earth Sciences)

NATIONAL BULLETIN NO. 1 (ARB/03/2023)

TIME OF ISSUE:1245 HOURS IST DATED:20.10.2023

FROM: INDIA METEOROLOGICAL DEPARTMENT (FAX NO. 24643965/24699216/24623220)

TO: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)

CONTROL ROOM NDMA (FAX.NO. 26701729)

CABINET SECRETARIAT (FAX.NO.23012284, 23018638)

PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES (FAX NO.23316745)

SECRETARY, MOES (FAX NO. 24629777)

H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)

DIRECTOR GENERAL, DOORDARSHAN (23385843)

DIRECTOR GENERAL, AIR (23421105, 23421219)

PIB MOES (FAX NO. 23389042)

UNI (FAX NO. 23355841)

D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX NO. 26105912, 2436 3260)

DIRECTOR, PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)

ADMINISTRATOR, LAKSHADWEEP ISLANDS (FAX NO. 0413-262184)

CHIEF SECRETARY, KERALA (FAX NO. 0471-2327176)

CHIEF SECRETARY, KARNATAKA (FAX NO. 080-22258913)

CHIEF SECRETARY, GOA (FAX NO. 0832-2415201)

CHIEF SECRETARY, MAHARASHTRA (FAX NO. 022- 22028594)

CHIEF SECRETARY, GUJARAT (FAX NO. 079-23250305)

CHIEF SECRETARY, DAMAN & DIU (FAX NO. 0260-2230775)

CHIEF SECRETARY, DADRA & NAGAR HAVELI (FAX NO. 0260-2645466)

CHIEF SECRETARY, ODISHA (FAX NO. 0674-2536660)

CHIEF SECRETARY, WEST BENGAL (FAX NO. 033-22144328)

CHIEF SECRETARY, ANDHRA PRADESH (FAX NO. 0863-2441029, 08645-246600)

CHIEF SECRETARY, TAMIL NADU (FAX NO 044-25672304)

CHIEF SECRETARY, PUDUCHERRY (FAX NO 0413-2334145)

ADMINISTRATOR, ANDAMAN & NICOBAR ISLANDS (FAX NO. 03192-232656)

Sub: (A) Depression over southwest Arabian Sea

(B) Low pressure Area over southwest and adjoining southeast Bay of Bengal

(A) Depression over southwest Arabian Sea

Yesterday's Low Pressure Area over Southeast & adjoining southwest Arabian Sea moved nearly westward, became a well marked low pressure area over southwest Arabian Sea in the midnight (2330 hours IST). It concentrated into a depression and lay centered at 0830 hours IST of today, the 20th October over southwest Arabian Sea near latitude 9.3°N and longitude 61.7°E about 920 km east-southeast of Socotra (Yemen), 1190 km southeast of Salalah Airport (Oman) and 1280 km east-southeast of Al Ghaidah (Yemen).

It is likely to move west-northwestwards and intensify into a cyclonic storm over southwest Arabian Sea during next 24 hours. Continuing to move west-northwestwards, it is likely to intensify into a severe cyclonic storm in the evening of 22nd October. Thereafter, it would move north-northwestwards from 24th morning towards south Oman and adjoining Yemen coasts.

Forecast track and intensity are given below:

Date/Time(IST)		Maximum sustained surface	Category of cyclonic
	(Lat. ⁰ N/ long. ⁰ E)	wind speed (Kmph)	disturbance
20.10.23/0830	9.3/61.7	45-55 gusting to 65	Depression
20.10.23/1130	9.3/61.5	45-55 gusting to 65	Depression
20.10.23/1730	9.4/61.2	50-60 gusting to 70	Deep Depression
20.10.23/2330	9.7/60.8	55-65 gusting to 75	Deep Depression
21.10.23/0530	10.0/60.3	60-70 gusting to 80	Cyclonic Storm
21.10.23/1730	10.8/58.9	70-80 gusting to 90	Cyclonic Storm
22.10.23/0530	11.9/57.3	80-90 gusting to 100	Cyclonic Storm
22.10.23/1730	13.1/56.0	90-100 gusting to 110	Severe Cyclonic Storm
23.10.23/0530	14.1/55.0	95-105 gusting to 115	Severe Cyclonic Storm
23.10.23/1730	14.8/54.4	105-115 gusting to 125	Severe Cyclonic Storm
24.10.23/0530	15.3/54.1	95-105 gusting to 115	Severe Cyclonic Storm
24.10.23/1730	16.1/53.8	85-95 gusting to 105	Severe Cyclonic Storm
25.10.23/0530	17.0/53.8	70-80 gusting to 90	Cyclonic Storm

Warnings:

(i) Wind warning (warning graphics enclosed):

• Southwest Arabian Sea:

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing and likely to increase gradually becoming 60-70 kmph gusting to 80 kmph by morning of 21st, 80-90 kmph gusting to 100 kmph by morning of 22nd October. It is likely to decrease gradually thereafter.

• Westcentral Arabian Sea:

Squally wind speed reaching **40-50 kmph gusting to 60 kmph** is prevailing and likely to gradually increase becoming **50-60 kmph gusting to 70 kmph** on 21st.

Gale wind speed reaching 80-90 kmph gusting to 100 kmph is likely to prevail in the morning of 22nd becoming 95-105 kmph gusting to 115 kmph by morning of 23rd and further 105-115 kmph gusting to 125 kmph in the evening of 23rd October. Thereafter, it is likely to decrease gradually becoming Gale wind speed reaching 85-95 kmph gusting to 115 kmph and 70-80 kmph gusting to 90 kmph in the morning of 25th October.

(ii) Sea Condition

Southwest Arabian Sea:

Rough to very rough sea condition is prevailing and likely to become very rough to phenomenal from 21st to 23rd October. It is likely to improve gradually thereafter.

• Westcentral Arabian Sea:

Rough sea condition is prevailing and it is likely to become rough to very rough during 21st and very rough to phenomenal thereafter.

• (iii) Fishermen Warning (Graphics attached):

Fishermen are advised not to venture into

- Southwest Arabian Sea from 20th to 23rd October.
- ❖ Westcentral Arabian Sea from 20th October onwards.

The Fishermen out at sea are advised to return to coast.

(B) Low Pressure Area over southwest and adjoining southeast Bay of Bengal

Under the influence of yesterday's cyclonic circulation over southeast Bay of Bengal a low pressure area has formed over southwest and adjoining southeast Bay of Bengal in the morning and lay over the same region at 0830 hours IST of today, the 20th October, 2023. It is likely to intensify further into a depression over westcentral Bay of Bengal around 23rd October.

Warnings:

- (i) Wind warning (warning graphics enclosed):
- Southwest and adjoining southeast Bay of Bengal:
 Squally wind speed reaching 40-50 kmph gusting to 60 kmph is prevailing near the system and it is likely to gradually increase becoming squally wind speed reaching 45-55 kmph gusting to 65 kmph on 21st & 22nd and 50-60 kmph gusting to 70 kmph on 23rd October. It is likely to decrease gradually thereafter.
- Westcentral Bay of Bengal: Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail on 21st October. It is likely to gradually increase becoming 45-55 kmph gusting to 65 kmph on 22nd and 50-60 kmph gusting to 70 kmph on 23rd & 24th October.

(ii) Sea Condition

- Southwest and adjoining southeast Bay of Bengal:
 Moderate to rough sea condition is likely to prevail near the system on 20th & 21st and it is likely to become rough to very rough on 23rd October. It is likely to improve gradually thereafter.
- Westcentral Bay of Bengal:
 Rough sea condition is likely to prevail on 21st October. It is likely to become rough to very rough from 23rd October.
- (iii) Fishermen Warning (Graphics attached):

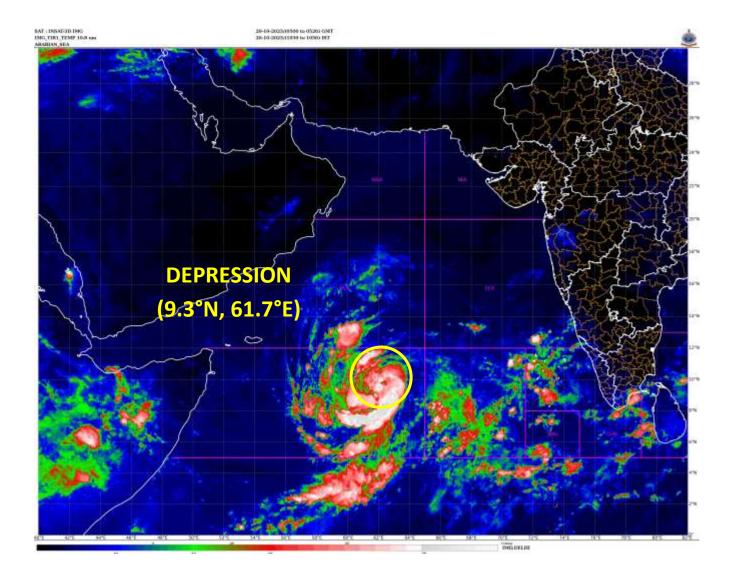
Fishermen are advised not to venture into

- ❖ Southwest and adjoining southeast Bay of Bengal from 20th to 23rd October.
- ❖ Westcentral Bay of Bengal from 21st October onwards.

Both the systems are under continuous surveillance and the next bulletin will be issued at 1430 hours IST of today, the 20th October, 2023.

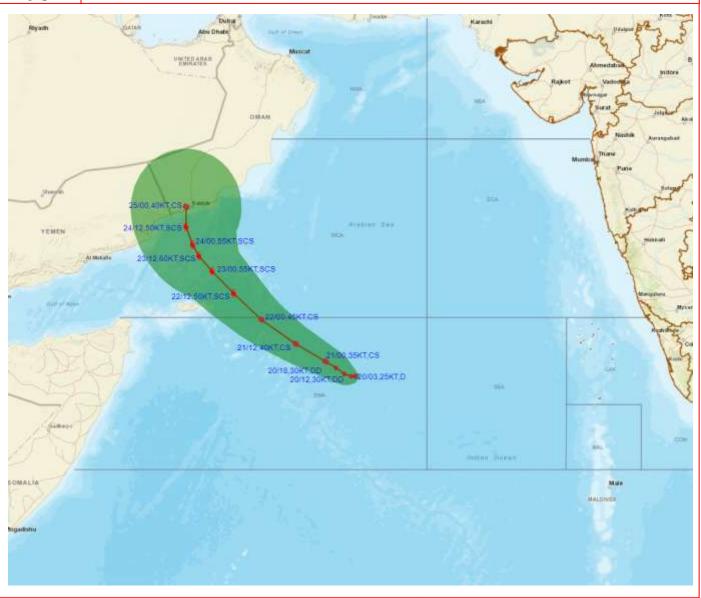
(Ananda Kumar Das) Scientist F, Cyclone Warning, New Delhi

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 UNCERTAINITY OF DEPRESSION OVER SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF **20TH OCTOBER 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 € 120 KT)

LESS THAN 34 KT

34-47 KT

≥ 48 KT

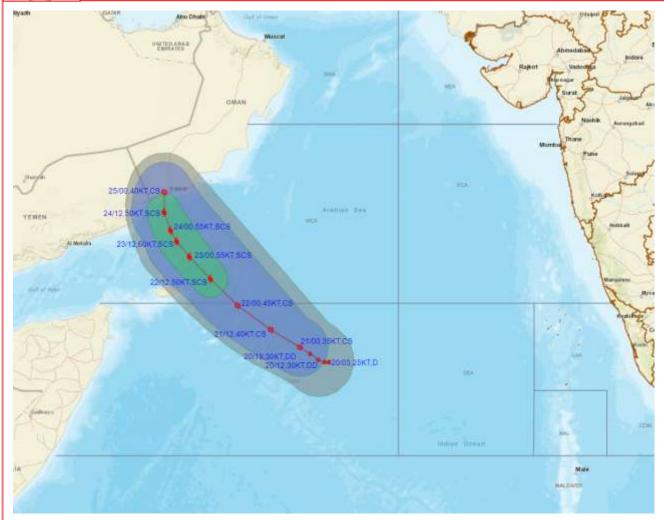
OBSERVED TRACK

FORECAST TRACK

CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER SOUTHWEST ARABIAN SEA BASED ON 0300 UTC (0830 IST) OF 20TH OCTOBER 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 (48-83KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

SuCS: SUPER CYCLONIC STORM @ 120 KT)

LESS THAN 34 KT

6 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)

■ 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

