



India Meteorological Department
(Ministry of Earth Sciences)

BULLETIN NUMBER: 05 (AS/02/2021)

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Sub: Depression over northeast Arabian Sea off Gujarat coast intensified into a Deep Depression.

The Depression over northeast Arabian Sea off Gujarat coast moved west-northwestwards with a speed of about 11 kmph, intensified into a **Deep Depression** during past 6 hours and lay centred at 2330 hrs IST of yesterday, the 30th September, 2021, near latitude 23.3°N and longitude 66.8°E, about 255 km west-northwest of Devbhoomi Dwarka (Gujarat), 180 km south-southwest of Karachi (Pakistan) and 660 km east-southeast of Chabahar Port (Iran).

It is very likely to further move west-northwestwards and intensify into a Cyclonic Storm during the next 12 hours. Thereafter it is likely to continue to move west-northwestwards towards Pakistan – Makran coasts, **moving away from the Indian coast. The system will not hit the Indian Coast.**

Forecast track and intensity are given in the following table:

Date/Time(IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
30.09.21/2330	23.3/66.8	50-60 gusting to 70	Deep Depression
01.10.21/1130	23.6/65.6	65-75 gusting to 85	Cyclonic Storm
01.10.21/2330	24.1/64.2	85-95 gusting to 105	Cyclonic Storm
02.10.21/1130	24.7/62.9	90-100 gusting to 110	Severe Cyclonic Storm
02.10.21/2330	25.0/62.2	95-105 gusting to 115	Severe Cyclonic Storm

Warnings:

(i) Rainfall

- Light to moderate rainfall at most places with heavy to very heavy falls at isolated places very likely over Saurashtra & Kutch during next 12 hours.

(ii) Wind warning

- Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely to prevail over northeast Arabian Sea and along & off south Gujarat coast and 40 – 50 kmph gusting to 60 kmph over east-central Arabian Sea along & off north Maharashtra coast during next 12 hours.
- It would gradually increase thereafter, becoming squally wind speed reaching 65-75 kmph gusting to 85 kmph over northeast Arabian Sea, 50-60 kmph gusting to 70 kmph along & off Gujarat coast and 45 – 55 kmph gusting to 65 kmph over east-central Arabian Sea along & off north Maharashtra coast during next 06 hours.
- It would further increase becoming Gale wind speed reaching 90-100 kmph gusting to 110 kmph over northeast & adjoining northwest Arabian Sea & along & off Pakistan – Makran coasts, 70-80 kmph gusting to 90 kmph along & off Gujarat coast and squally wind speed reaching 40 – 50 kmph gusting to 60 kmph over central Arabian Sea from the morning of 2nd October and 90-100 kmph gusting to 110 kmph over north Arabian Sea and along & off Pakistan – Makran coasts, 60-70 kmph gusting to 80 kmph over northern parts of central Arabian Sea and 50-60 kmph gusting to 70 kmph along & off north Gujarat coast on 2nd October 2021.

(iii) Sea condition

- Sea condition will be rough to very rough over northeast Arabian Sea and adjoining east-central Arabian Sea & along & off Gujarat – north Maharashtra coasts during next 12 hours.
- It will gradually become 'High' over Northeast Arabian Sea and along & off Gujarat coast and adjoining eastcentral Arabian Sea and along and off Pakistan coast and rough to very rough along & off north Maharashtra coast during next 24 hours.
- Sea condition will be 'High to very High' over north Arabian Sea and along and off north Pakistan – Makran coasts and 'High' over adjoining central Arabian Sea, very rough to High along & off north Gujarat coast on 2nd October.
- Sea condition will be 'High to very High' over northwest & adjoining west-central Arabian Sea on 3rd October 2021.

(iv) Fishermen Warning

- Fishermen are advised not to venture into north & adjoining central Arabian Sea and along & off Gujarat & north Maharashtra coasts till 2nd October 2021 and over northwest & adjoining west-central Arabian Sea on 3rd October 2021.

(v) EXPECTED IMPACT & ACTION SUGGESTED

- As the system is expected to move away from the Indian coast, apart from the impact associated with the very heavy rain events over Saurashtra & Kutch during next 24 hours, no further impact is likely over the Indian Mainland.
- However, Fishermen as well as Mariners are advised to avoid the Sea areas specified above.
- Also the On-shore & Off-shore installations located off Gujarat coast are advised to stall operations for next 24 hours.
- Tourism & recreational activities along & off Gujarat coast also may be suspended for next 24 hours.

The next bulletin will be issued at 0830 hrs IST of 1st October, 2021.

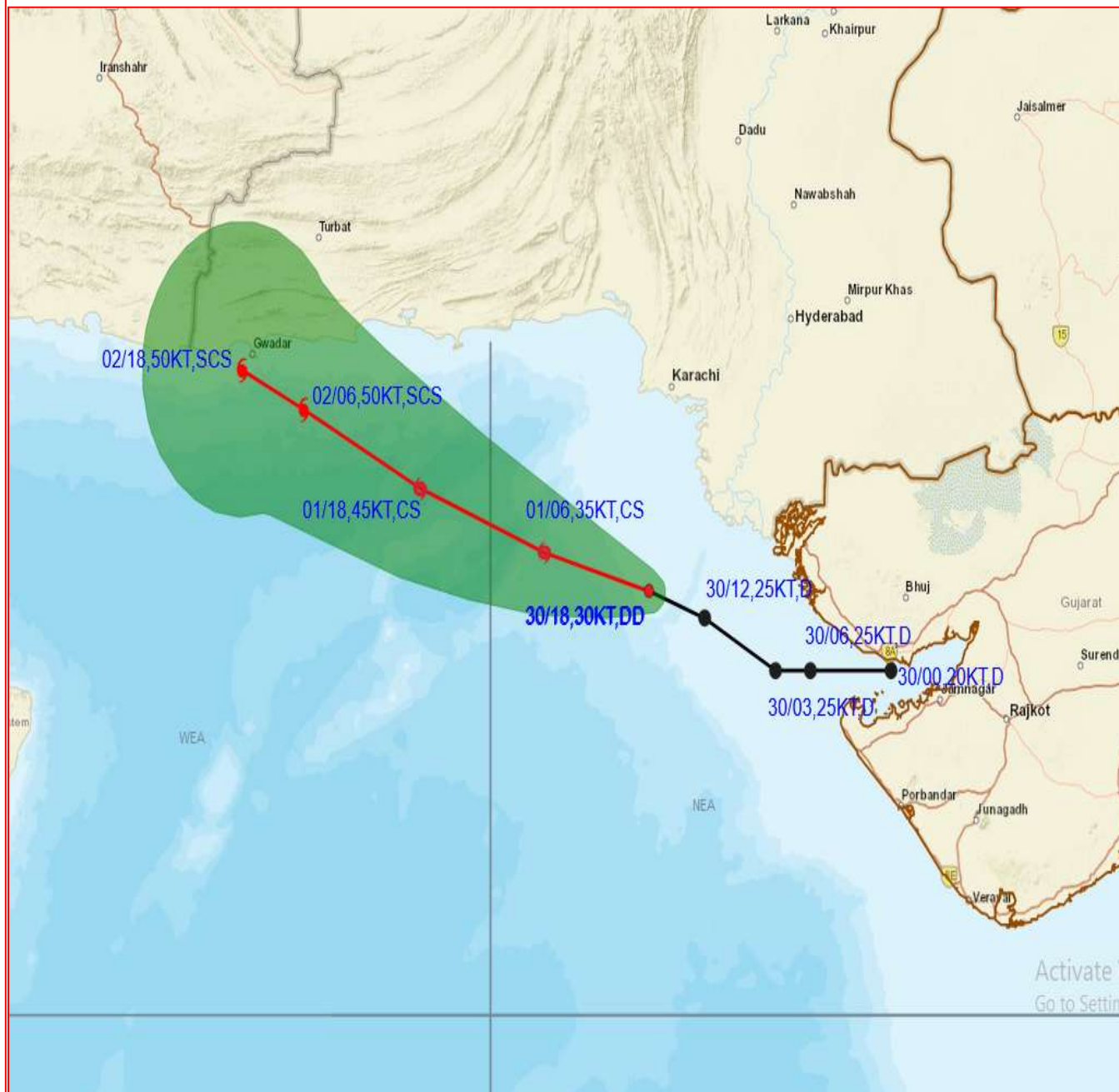
(Shibin Balakrishnan)
Scientist-C, RSMC, New Delhi

Copy to: ACWC Mumbai/ CWC Ahmedabadr/MC Goa/CWC Thiruvananthapuram

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 stations



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION OVER NORTHEAST ARABIAN SEA BASED ON 1800 UTC OF 30TH SEPTEMBER, 2021



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 DEPRESSION OVER NORTHEAST ARABIAN SEA BASED ON 1800 UTC OF 30TH SEPTEMBER, 2021

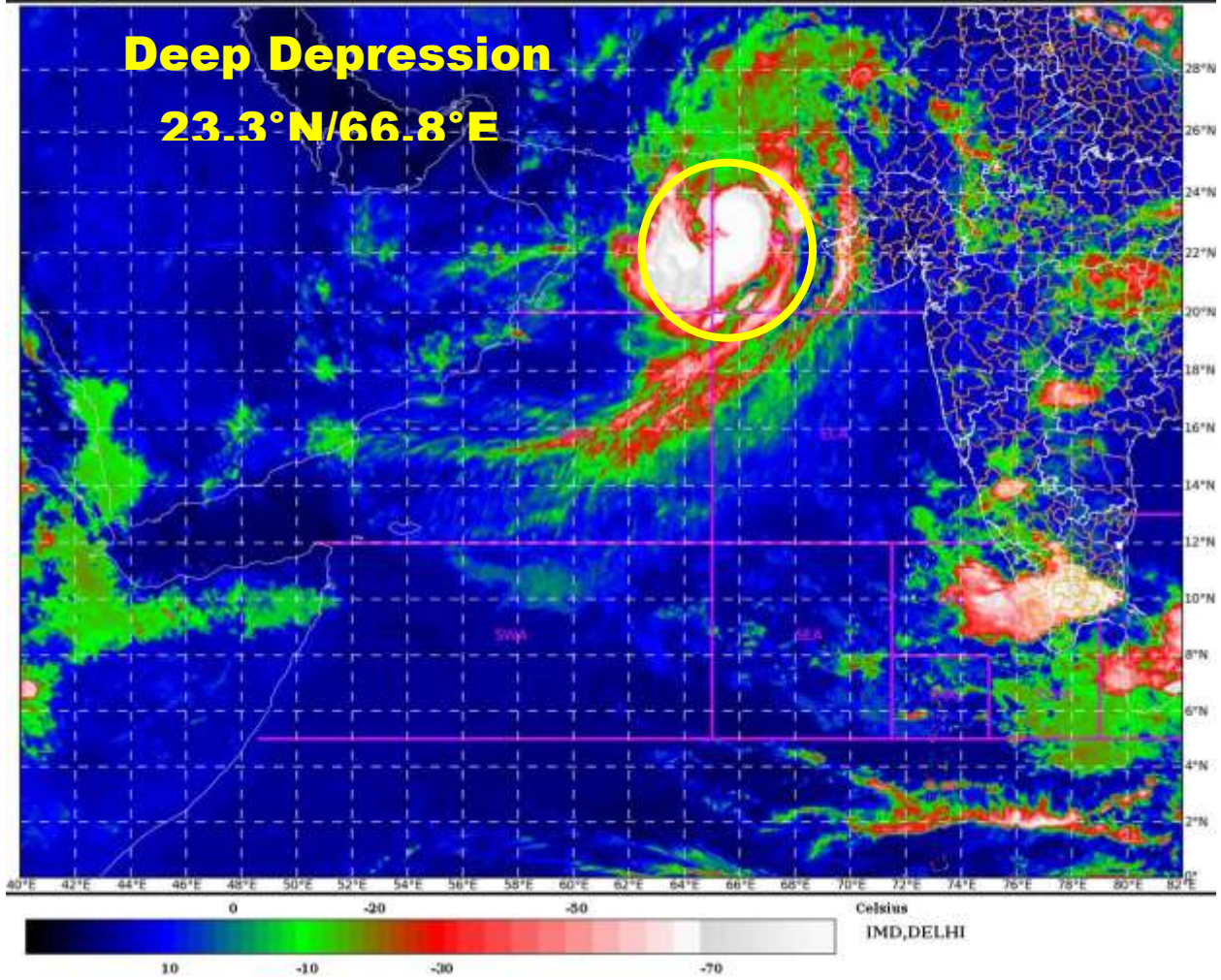


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 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)
 SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT
 ○ 34-47 KT
 ● \geq 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ● CONE OF UNCERTAINTY
 AREA OF MAXIMUM SUSTAINED WIND SPEED:
 ■ 28-33 KT (52-61 KMPH)
 ■ 34-49 KT (62-91 KMPH)
 ■ 50-63 KT (92-117 KMPH)
 ■ \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations



Meteorological Sub-division level heavy rainfall warning

