



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

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Sub: Severe Cyclonic Storm 'Shaheen' over northwest Arabian Sea

The **Severe Cyclonic Storm 'Shaheen'** over **northwest & adjoining northeast Arabian Sea** moved west-northwestwards with a speed of about 10 kmph, during past 6 hours, lay centred at 0230 hrs IST of 2nd October, 2021 over northwest Arabian Sea, near latitude 23.8°N and longitude 62.8°E, about 660 km west-northwest of Devbhoomi Dwarka (Gujarat), 280 km east-southeast of Chabahar Port (Iran) and 450 km east-southeast of Muscat (Oman).

It is very likely to intensify further during the next 12 hours and move west-northwestwards skirting Makran coast during next 24 hours. Thereafter it is likely to re-curve west-southwestwards, move towards Oman coast across Gulf of Oman and weaken gradually. It is likely to cross Oman coast between Long.56°E & 58°E, during early hours of 4th October 2021, as a Cyclonic Storm.

The system is moving away from 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
02.10.21/0230	23.8/62.8	105-115 gusting to 125	Severe Cyclonic Storm
02.10.21/0530	23.9/62.4	110-120 gusting to 130	Severe Cyclonic Storm
02.10.21/1130	24.1/61.7	110-120 gusting to 130	Severe Cyclonic Storm
02.10.21/1730	24.3/61.0	110-120 gusting to 130	Severe Cyclonic Storm
02.10.21/2330	24.4/60.3	105-115 gusting to 125	Severe Cyclonic Storm
03.10.21/1130	24.3/58.9	95-105 gusting to 115	Severe Cyclonic Storm
03.10.21/2330	24.0/57.6	80-90 gusting to 100	Cyclonic Storm
04.10.21/1130	23.7/56.5	50-60 gusting to 70	Deep Depression

Warnings:

(i) Wind warning

- Gale wind speed reaching 105-115 kmph gusting to 125 kmph likely to prevail over northwest & adjoining northeast Arabian Sea during next 6 hours. It would gradually increase becoming 110 - 120 Kmph gusting to 130 Kmph over northwest Arabian Sea and adjoining Pakistan-Makran coasts from early hours of 02nd Oct. till late night. It will gradually reduce becoming 90-100 Kmph gusting to 110 Kmph over northwest Arabian Sea and adjoining Gulf of Oman from 3rd forenoon and further reduce becoming 80-90 Kmph gusting to 100 Kmph from 4th October early morning and further reduce thereafter.
- Gale wind speed reaching 70-80 kmph gusting to 90 kmph likely to prevail over northeast Arabian Sea during next 12 hours. It would gradually reduce thereafter.

(ii) Sea condition

- Sea condition will be high to very high over northwest & adjoining northeast Arabian Sea during next 12 hours. It would become high to very high over north Arabian Sea & along and off Pakistan-Makran Coasts till morning of 03rd October. It would improve gradually becoming high over northwest Arabian Sea & adjoining Gulf of Oman from 3rd October evening.

(iii) Fishermen Warning

- Fishermen are advised not to venture into north & adjoining central Arabian Sea, along & off Pakistan-Makran coasts and Gulf of Oman till 4th October morning.
- Fishermen are also advised not to venture into northeast Arabian Sea along & off north Gujarat coast during next 06 hours.

(iv) EXPECTED IMPACT & ACTION SUGGESTED

- As the system is moving away from the Indian coast, no further impact is likely over the Indian Mainland.
- However, Fishermen as well as Mariners are advised to avoid the Sea areas specified above.

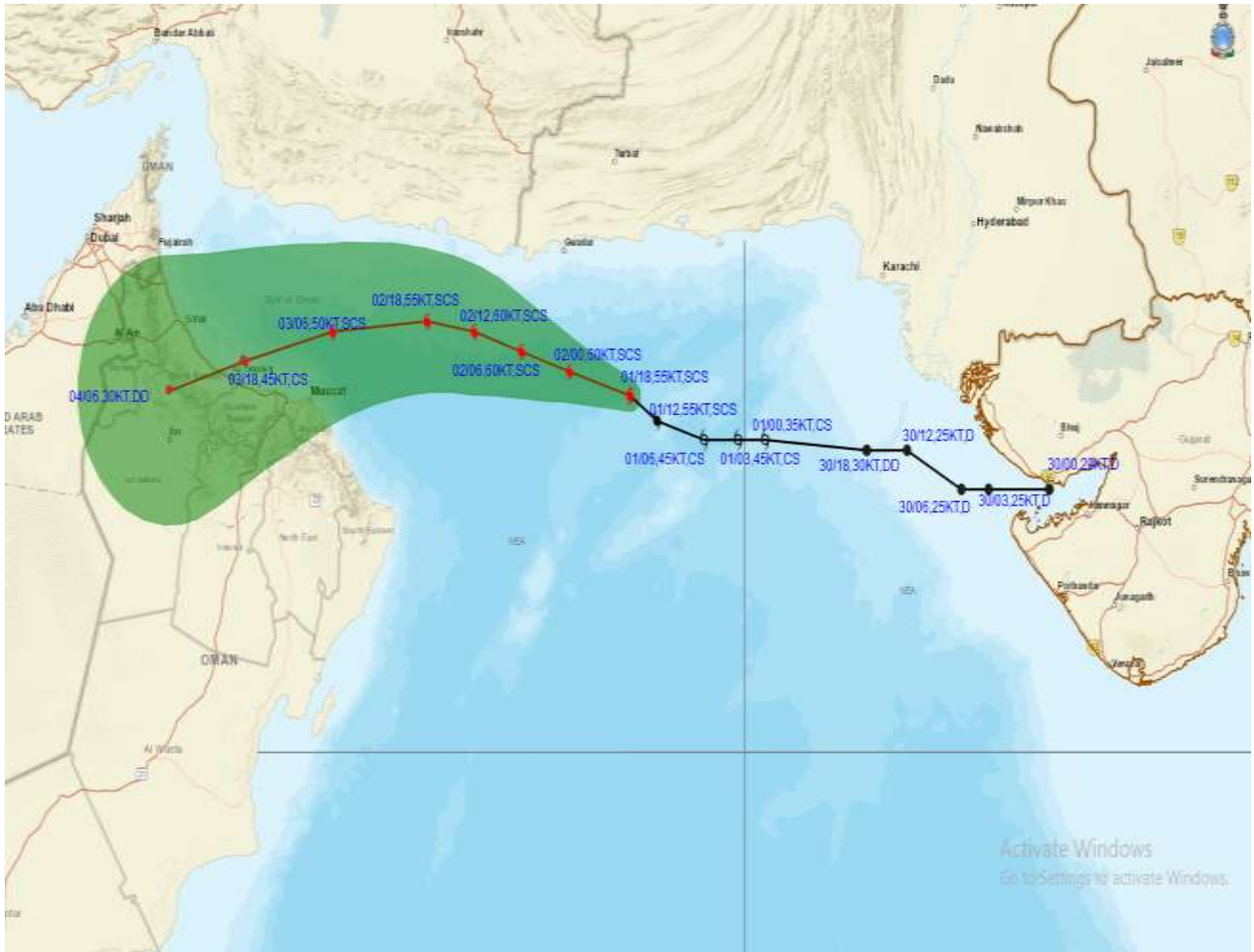
The next bulletin will be issued at 0830 hrs IST of 2nd October, 2021.

(D. R. Pattanaik)
Scientist-F, RSMC, New Delhi

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



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "SHAHEEN" OVER NORTHWEST & ADJOINING NORTHEAST ARABIAN SEA BASED ON 1800 UTC OF 1ST OCTOBER, 2021

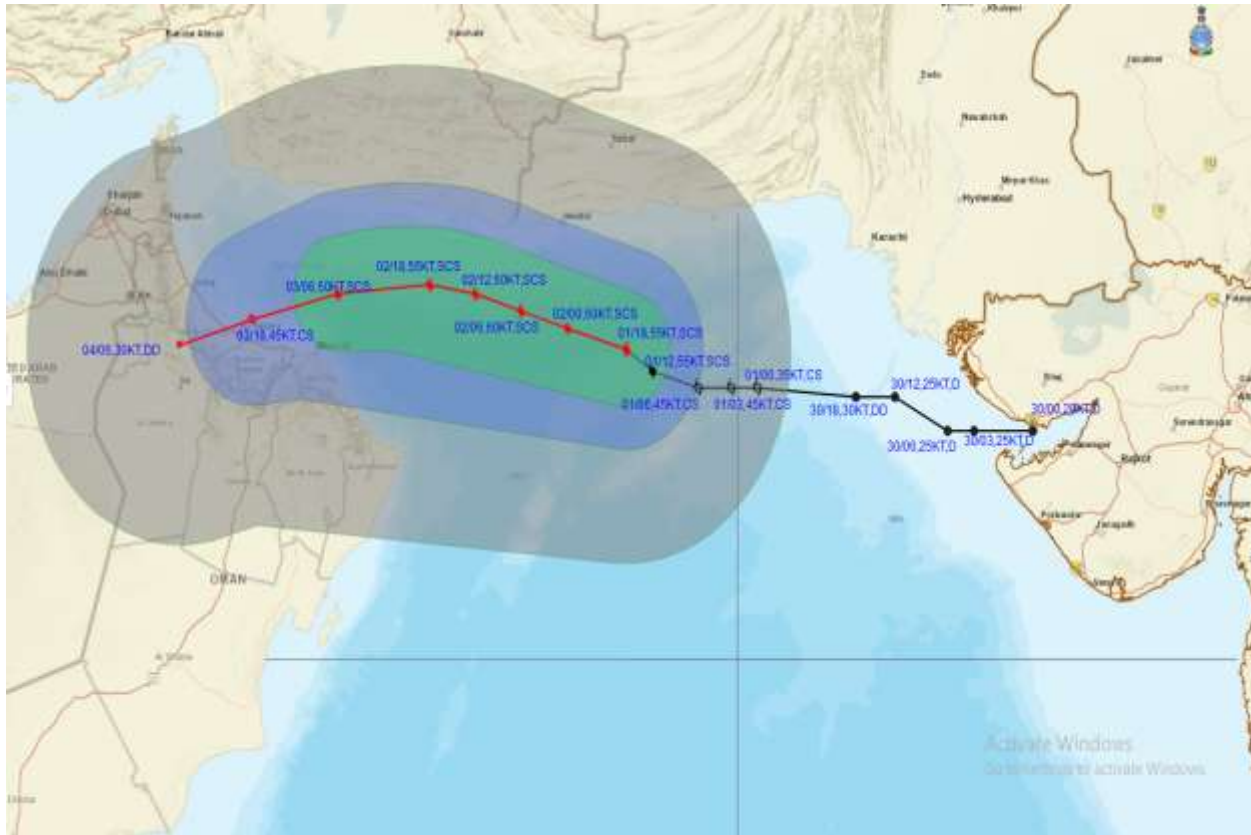


DATE/TIME IN UTC
 IST=UTC + 0530
 L: LOW PRESSURE AREA
 WML: WELL MARKED LOW PRESSURE AREA
 D: DEPRESSION (17-27 KT)
 DD: DEEP DEPRESSION (28-33 KT)
 CS: CYCLONIC STORM (34-47 KT)
 SCS: SEVERE CYCLONIC STORM (48-63KT)
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (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 SEVERE CYCLONIC STORM "SHAHEEN" OVER NORTHWEST & ADJOINING NORTHEAST ARABIAN SEA BASED ON 1800 UTC OF 1ST OCTOBER, 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 (≥ 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

SAT : INSAT-3D IMG
IMG_TIR1_TEMP 10.8 um
ARABIAN_SEA

01-10-2021/(2230 to 2256) GMT
02-10-2021/(0400 to 0426) IST

