



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

**BULLETIN NUMBER: 15 (AS/02/2021)**

**TIME OF ISSUE: 1045 HOURS IST**

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

The **Severe Cyclonic Storm 'Shaheen'** over northwest Arabian Sea moved west-northwestwards with a speed of about 12 kmph, during past 6 hours, lay centred at 0830 hrs IST of 2<sup>nd</sup> October, 2021 over northwest Arabian Sea, near latitude 23.9°N and longitude 62.1°E, about 740 km west-northwest of Devbhoomi Dwarka (Gujarat), 210 km east-southeast of Chabahar Port (Iran) and 370 km east-northeast of Muscat (Oman).

It is very likely to 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, around 57°E, during early hours of 4<sup>th</sup> October 2021, as a Cyclonic Storm with a maximum sustained wind speed of 70 – 80 kmph gusting to 90 kmph.

**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
02.10.21/0830	23.9/62.1	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
03.10.21/0530	24.4/59.6	100-110 gusting to 120	Severe Cyclonic Storm
03.10.21/1730	24.2/58.3	90-100 gusting to 110	Severe Cyclonic Storm
04.10.21/0530	23.9/57.0	80-90 gusting to 100	Cyclonic Storm
04.10.21/1730	23.5/55.8	30-40 gusting to 50	Depression

### **Warnings:**

#### **(i) Wind warning**

- Gale wind speed reaching 110-120 kmph gusting to 130 kmph likely to prevail over northwest Arabian Sea adjoining Makran coast during next 12 hours. It would gradually decrease becoming 100 - 110 Kmph gusting to 120 Kmph over northwest Arabian Sea and adjoining Makran coast from early hours of 03<sup>rd</sup> Oct. till late evening and further reduce becoming 80-90 kmph gusting to 100 kmph over northwest Arabian Sea and adjoining Gulf of Oman from the early hours of 04<sup>th</sup> Oct. and further reduce thereafter.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph likely to prevail over northeast Arabian Sea during next 06 hours. It would gradually reduce thereafter.

#### **(ii) Sea condition**

- Sea condition will be high to very high over northwest Arabian Sea & along and off Makran Coast till evening of 03<sup>rd</sup> Oct. It would improve gradually becoming high over northwest Arabian Sea & adjoining Gulf of Oman from the night of 3<sup>rd</sup> October during subsequent 12 hours.

#### **(iii) Fishermen Warning**

- Fishermen are advised not to venture into northwest Arabian Sea, along & off Makran coast and Gulf of Oman till 4<sup>th</sup> October morning.
- Fishermen are also advised not to venture into northeast Arabian Sea 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.

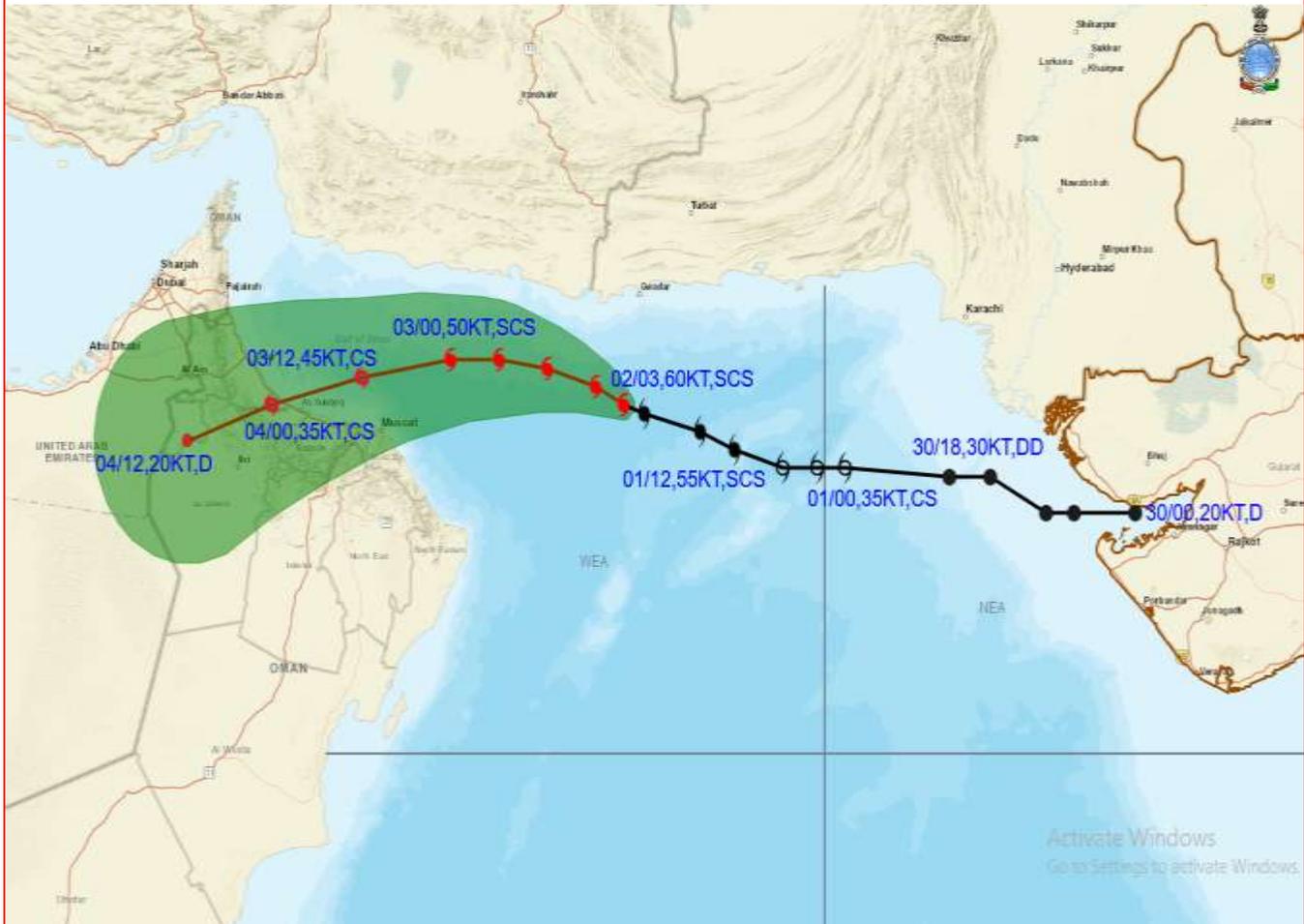
The next bulletin will be issued at 1430 hrs IST of 2<sup>nd</sup> October, 2021.

**(Sunitha Devi .S)**  
**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 ARABIAN SEA BASED ON 0300 UTC OF 2<sup>ND</sup> 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 (48-63 KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

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

SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)

● LESS THAN 34 KT

○ 34-47 KT

⊙  $\geq$  48 KT

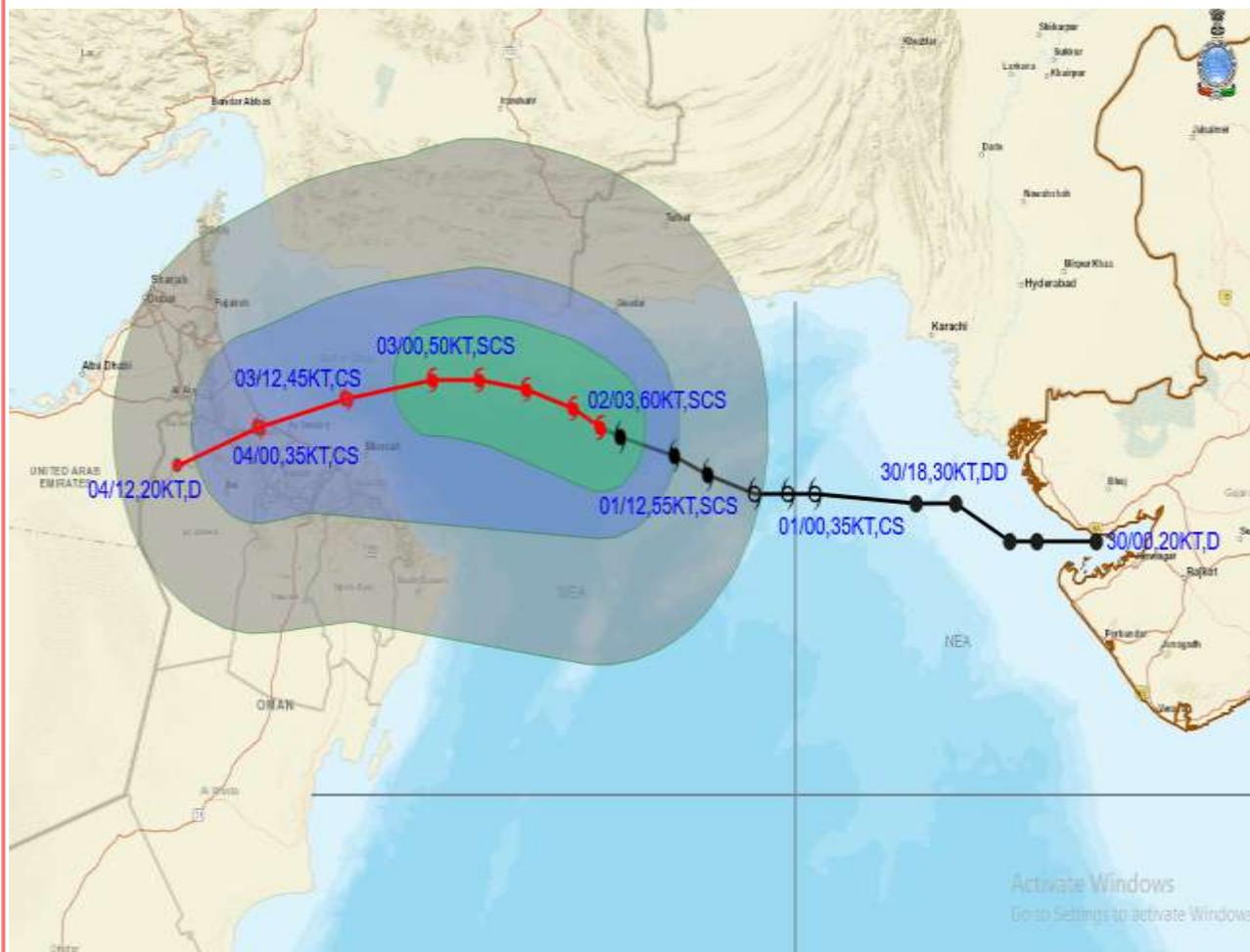
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



## OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM "SHAHEEN" OVER NORTHWEST ARABIAN SEA BASED ON 0300 UTC OF 2<sup>ND</sup> 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

02-10-2021(0400 to 0426) GMT  
02-10-2021(0930 to 0956) IST

