



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

BULLETIN NUMBER: 16 (AS/02/2021)

TIME OF ISSUE: 1400 HOURS IST

DATED: 02.10.2021

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)
CHIEF SECRETARY, MAHARASHTRA (FAX NO 022-22028594)
CHIEF SECRETARY, GUJARAT (FAX NO 079-23250305)
CHIEF SECRETARY, DAMAN,DIU,DADRA & NAGAR HAVELI (FAX NO 0260-2230775)
CHIEF SECRETARY, GOA (FAX NO 0832-2415201)
CHIEF SECRETARY, KARNATAKA (FAX NO 080-22258913)
CHIEF SECRETARY, KERALA (FAX NO 0471-2327176)
ADMINISTRATOR, LAKSHADWEEP (FAX NO 0260-2230775)**

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 11 kmph, during past 6 hours, lay centred at 1130 hrs IST of 2nd October, 2021 over northwest Arabian Sea, near latitude 24.1°N and longitude 61.8°E, about 770 km west-northwest of Devbhoomi Dwarka (Gujarat), 180 km southeast of Chabahar Port (Iran) and 340 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 very likely to cross Oman coast between Long.56°E & 58°E, around 57°E, during early hours of 4th October 2021, as a Cyclonic Storm with a maximum sustained wind speed of 80 – 90 kmph gusting to 100 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
02.10.21/1130	24.1/61.8	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
03.10.21/1130	24.3/58.9	90-100 gusting to 110	Severe Cyclonic Storm
03.10.21/2330	24.1/57.7	80-90 gusting to 100	Cyclonic Storm
04.10.21/1130	23.7/56.4	50-60 gusting to 70	Deep Depression
04.10.21/2330	23.3/55.1	20-30 gusting to 40	Well Marked Low

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 03rd Oct. till late evening, further reduce becoming 70-80 kmph gusting to 90 kmph over northwest Arabian Sea and adjoining Gulf of Oman from the early hours of 04th Oct. and further reduce thereafter.
- Squally wind speed reaching 40-50 kmph gusting to 60 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 03rd Oct. It would improve gradually becoming high over northwest Arabian Sea & adjoining Gulf of Oman from the night of 3rd October during subsequent 12 hours.

(iii) Fishermen Warning

- Fishermen are advised not to venture into northwest Arabian Sea, Gulf of Oman, along & off Makran and Oman coasts till 4th 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 India.
- However, Fishermen as well as Mariners are advised to avoid the Sea areas specified above.

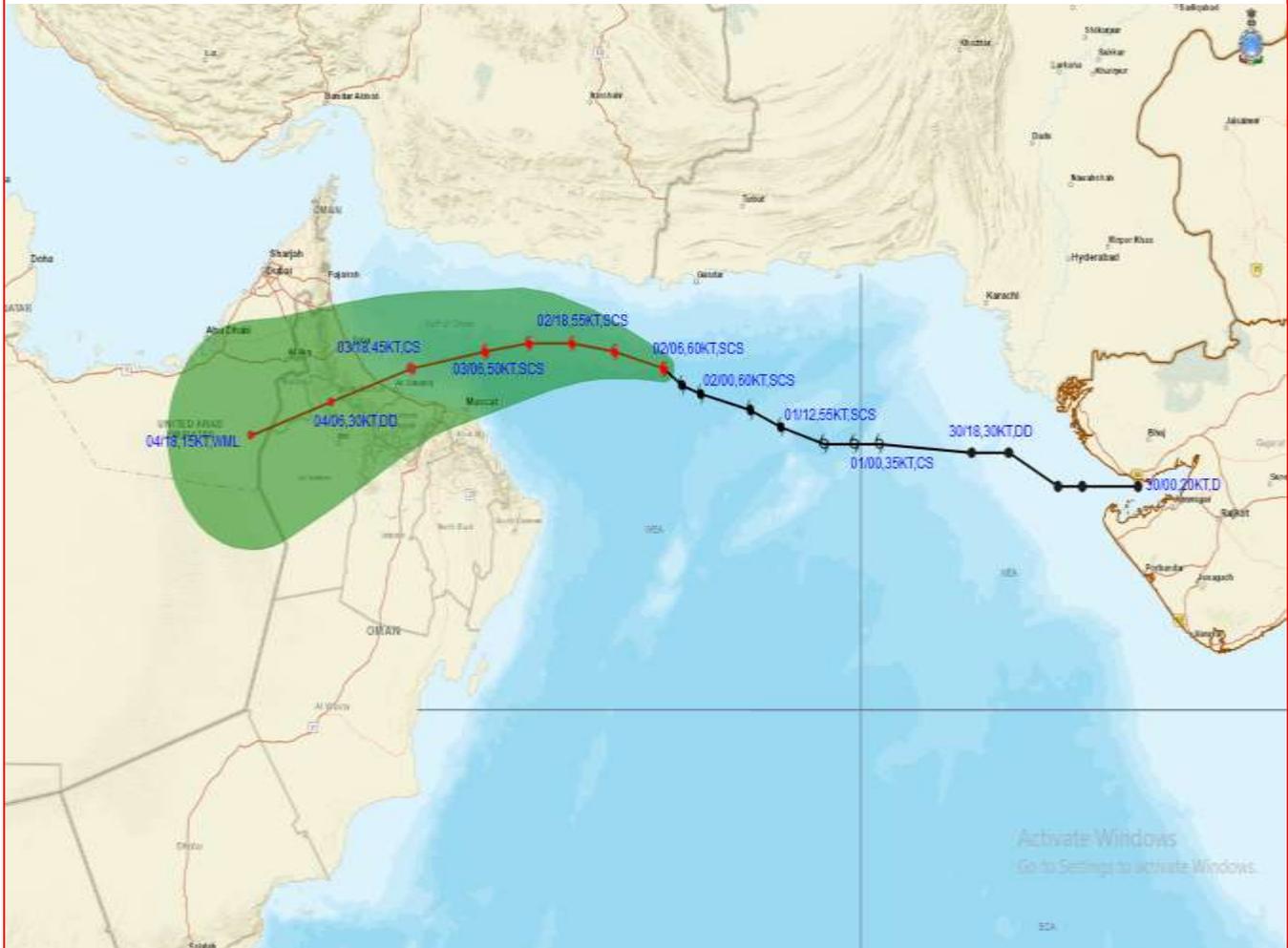
The next bulletin will be issued at 1730 hrs IST of 2nd October, 2021.

(Sunitha Devi .S)
Scientist-F, RSMC, New Delhi

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



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "SHAHEEN" OVER NORTHWEST ARABIAN SEA BASED ON 0600 UTC OF 2ND OCTOBER, 2021

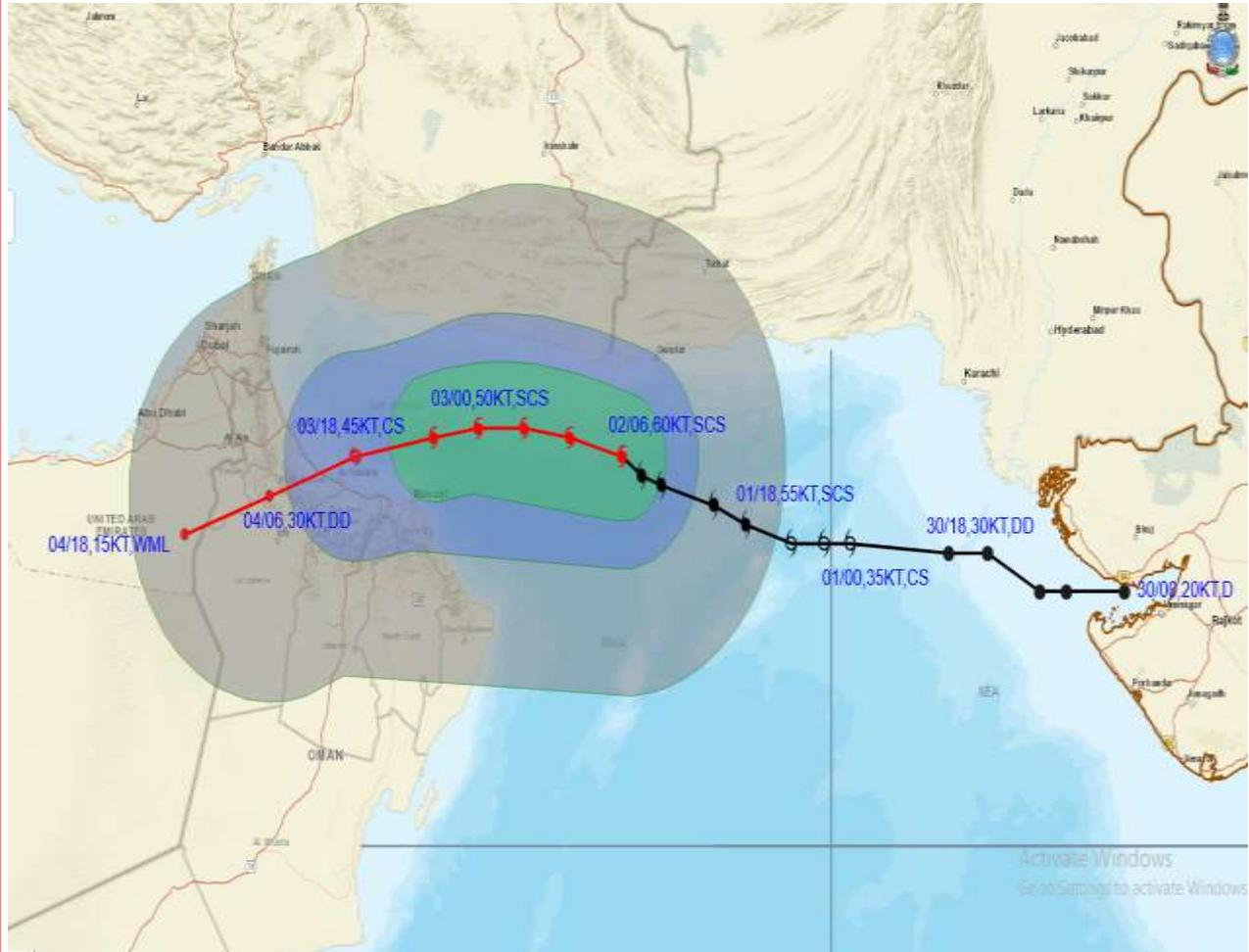


DATE/TIME IN UTC
IST=UTC + 0530
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 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 ARABIAN SEA BASED ON 0600 UTC OF 2ND 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/(0630 to 0656) GMT
02-10-2021/(1200 to 1226) IST

