



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL
TROPICAL CYCLONE ADVISORY BULLETIN NO. 23**

FROM: RSMC –TROPICAL CYCLONES, NEW DELHI

**TO: STORM WARNING CENTRE, NAYPYI TAW (MYANMAR)
STORM WARNING CENTRE, BANGKOK (THAILAND)
STORM WARNING CENTRE, COLOMBO (SRILANKA)
STORM WARNING CENTRE, DHAKA (BANGLADESH)
STORM WARNING CENTRE, KARACHI (PAKISTAN)
METEOROLOGICAL OFFICE, MALE (MALDIVES)
OMAN METEOROLOGICAL DEPARTMENT, MUSCAT (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH)
YEMEN METEOROLOGICAL SERVICES, REPUBLIC OF YEMEN (THROUGH RTH JEDDAH) NATIONAL
CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
PRESIDENCY OF METEOROLOGY AND ENVIRONMENT, SAUDI ARABIA (THROUGH RTH JEDDAH)
IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)**

**TROPICAL CYCLONE ADVISORY NO. 23 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND
ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 1945 UTC OF 03.10.2021 BASED ON 1800
UTC OF 03.10.2021.**

**SUB: SEVERE CYCLONIC STORM 'SHAHEEN' OVER GULF OF OMAN AND ADJOINING OMAN
COAST**

THE **SEVERE CYCLONIC STORM 'SHAHEEN'** OVER GULF OF OMAN & NEIGHBOURHOOD CONTINUED TO MOVE WEST-SOUTHWESTWARDS WITH A SPEED OF ABOUT 11 KMPH AND WEAKENED SLIGHTLY DURING PAST 6 HOURS. IT LAY CENTRED AT 1800 UTC OF TODAY, THE 3RD OCTOBER, 2021 OVER GULF OF OMAN & ADJOINING OMAN COAST, NEAR LATITUDE 23.9°N AND LONGITUDE 57.3°E, CLOSE TO OMAN COAST AND ABOUT 370 KM WEST-SOUTHWEST OF CHABAHR PORT (40898) AND 120 KM WEST-NORTHWEST OF MUSCAT (41278).

LATEST OBSERVATIONS INDICATE THAT THE SYSTEM IS CROSSING THE OMAN COAST NEAR LATITUDE 23.9 °N AND LONGITUDE 57.3 °E ABOUT 120 KM WEST-NORTHWEST OF MUSCAT (OMAN) AS A SEVERE CYCLONIC STORM WITH A MAXIMUM SUSTAINED WIND SPEED OF 95-105 KMPH GUSTING TO 115 KMPH. LANDFALL PROCESS WILL BE COMPLETED DURING NEXT 02 HOURS.

FORECAST TRACK AND INTENSITY ARE GIVEN IN THE FOLLOWING TABLE:

DATE/TIME (UTC)	POSITION (LAT. °N/ LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	CATEGORY OF CYCLONIC DISTURBANCE
03.10.21/1800	23.9/57.3	95-105 gusting to 115	Severe Cyclonic Storm
04.10.21/0000	23.8/56.5	65-75 gusting to 85	Cyclonic Storm
04.10.21/0600	23.7/55.9	45-55 gusting to 65	Depression

AS PER INSAT-3D IMAGERY AT 1800 UTC, THE SYSTEM. INTENSITY IS T 3.5. ASSOCIATED BROKEN LOW/MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER GULF OF OMAN ADJOINING NORTHWEST ARSEA BET LAT 22.5N TO 25.5N AND LONG 56.0E TO 60.0E, WEST MAKARAN COAST, GULF OF OMAN AND NORTH OMAN. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 78 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 55 KNOTS GUSTING TO 65 KNOTS. THE SEA CONDITION IS HIGH TO VERY HIGH OVER THE SYSTEM AREA. THE ESTIMATED CENTRAL PRESSURE IS 988 HPA.

STORM SURGE GUIDANCE: STORM SURGE OF HEIGHT ABOUT 1M ABOVE THE ASTRONOMICAL TIDE IS LIKELY TO INUNDATE THE LOW LYING AREAS OF NORTH COASTAL OMAN DURING NEXT THREE HOURS (MODEL OUTPUT GRAPHICS ATTACHED).

REMARKS:

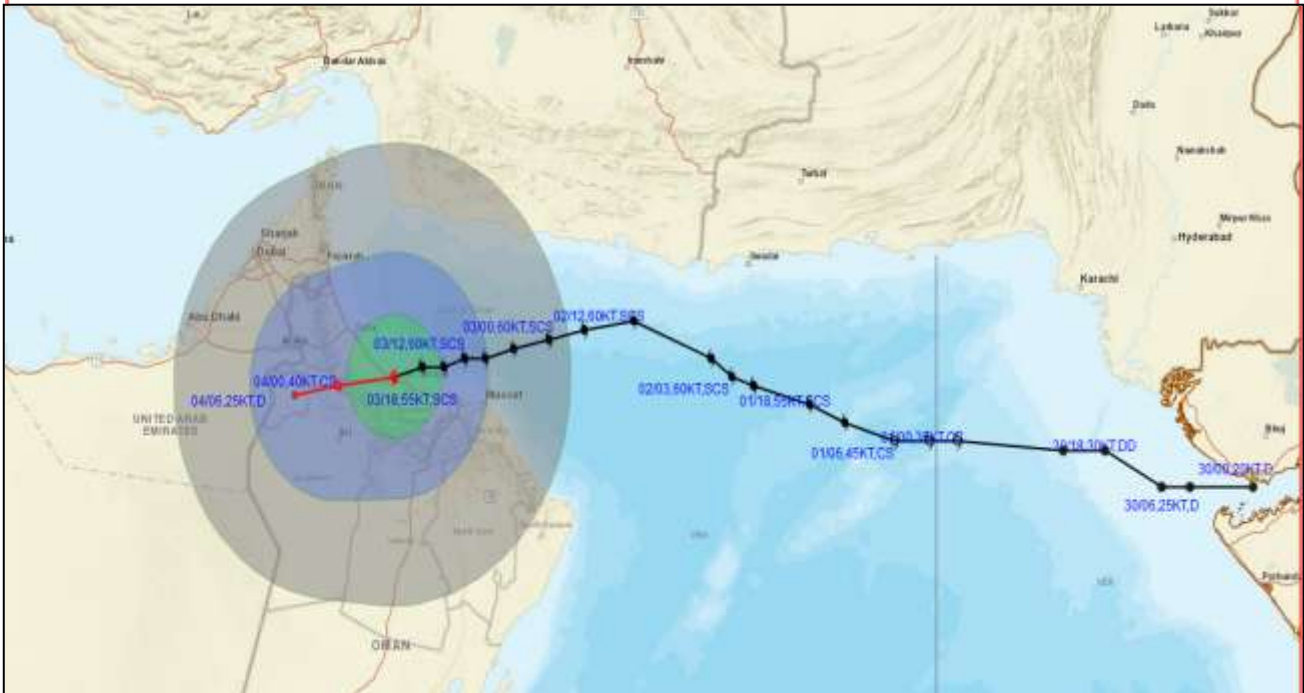
LATEST OBSERVATIONS INDICATE THAT THE SYSTEM IS CROSSING THE OMAN COAST NEAR LATITUDE 23.9 °N AND LONGITUDE 57.3 °E ABOUT 120 KM WEST-NORTHWEST OF MUSCAT (OMAN) AS A SEVERE CYCLONIC STORM WITH A MAXIMUM SUSTAINED WIND SPEED OF 95-105 KMPH GUSTING TO 115 KMPH.

LANDFALL PROCESS WILL BE COMPLETED DURING NEXT 02 HOURS.

**(D R PATTANAİK)
SCIENTIST-F, RSMC, NEW DELHI**



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM “SHAHEEN” OVER GULF OF OMAN AND ADJOINING OMAN COAST BASED ON 1800 UTC OF 3RD 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

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



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF SEVERE CYCLONIC STORM "SHAHEEN" OVER GULF OF OMAN AND ADJOINING OMAN COAST BASED ON 1800 UTC OF 3RD OCTOBER, 2021



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 IST=UTC + 0530
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● LESS THAN 34 KT
 ○ 34.47 KT
 ● \geq 48 KT
 — OBSERVED TRACK
 — FORECAST TRACK
 ▲ CONE OF UNCERTAINTY
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