



REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI TROPICAL SPECIAL TROPICAL WEATHER OUTLOOK

DEMS-RSMC TROPICAL CYCLONES NEW DELHI DATED 04.10.2021

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0600 UTC OF 04.10.2021 BASED ON 0300 UTC OF 04.10.2021.

SUB: CYCLONIC STORM 'SHAHEEN' WEAKENED INTO A DEEP DEPRESSION OVER NORTH OMAN AND ADJOINING UNITED ARAB EMIRATES

THE **CYCLONIC STORM 'SHAHEEN'** OVER NORTH OMAN AND ADJOINING UNITED ARAB EMIRATES (UAE) CONTINUED TO MOVE WEST-SOUTHWESTWARDS WITH A SPEED OF ABOUT 15 KMPH DURING PAST 6 HOURS, WEAKENED INTO A **DEEP DEPRESSION** AND LAY CENTRED AT 0300 UTC OF TODAY, THE 4TH OCTOBER, 2021 OVER THE SAME REGION, NEAR LATITUDE 23.5°N AND LONGITUDE 56.4°E, ABOUT 200 KM NEARLY TO THE WEST OF MUSCAT (41278).

IT IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN INTO A DEPRESSION DURING NEXT 12 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
04.10.21/0300	23.5/56.4	55-65 GUSTING TO 75	DEEP DEPRESSION
04.10.21/0600	23.4/56.1	50-60 GUSTING TO 70	DEEP DEPRESSION
04.10.21/1200	23.2/55.5	30-40 GUSTING TO 50	DEPRESSION

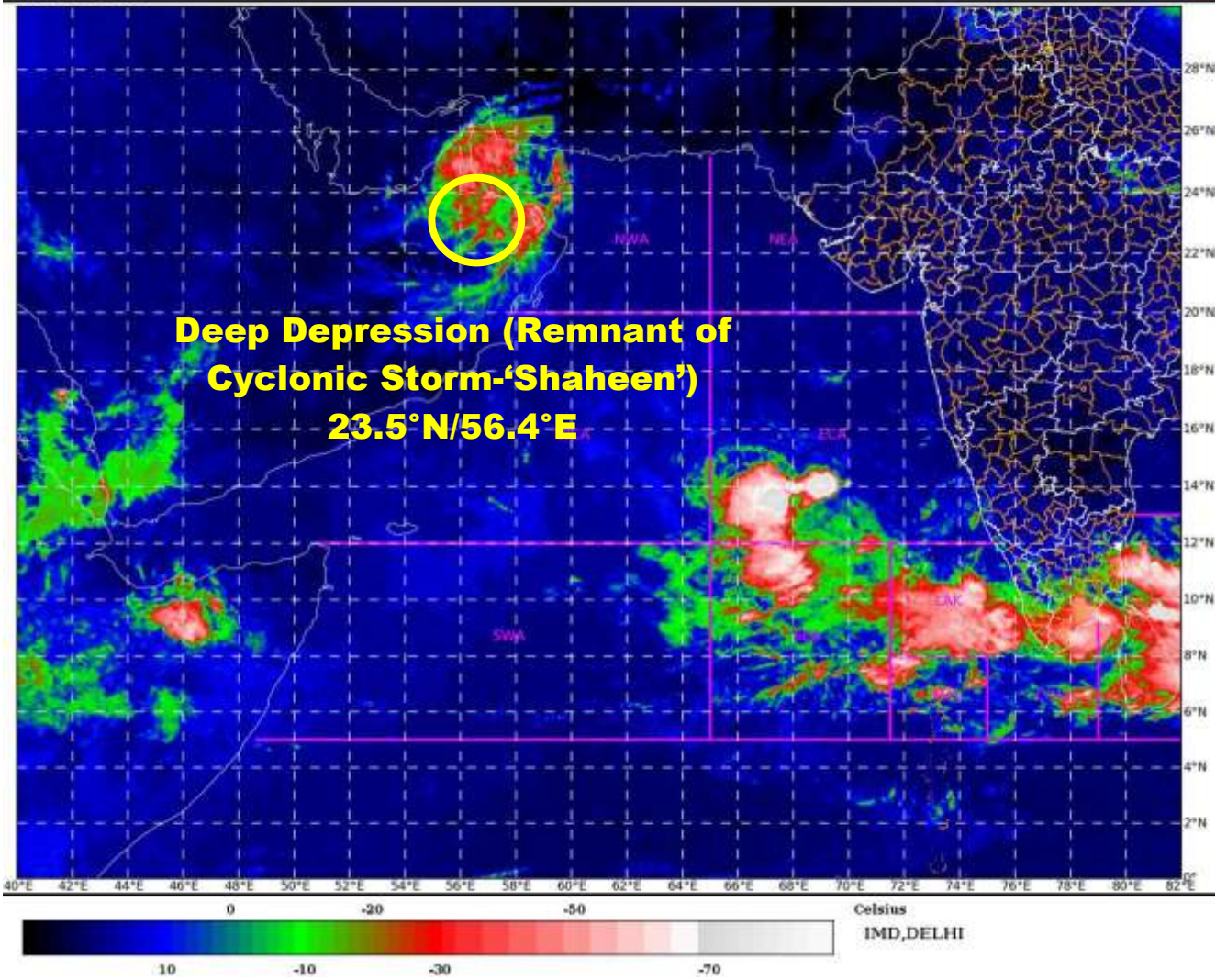
AS PER INSAT-3D IMAGERY AT 0300 UTC, CLOUD MASS HAS DISTORTED DUE TO LAND INTERACTIONS. BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED MODERATE TO INTENSE CONVECTION LAY OVER OMAN AND GULF OF OMAN. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 67 DEG C.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 30 KNOTS GUSTING TO 40 KNOTS. THE SEA CONDITION IS ROUGH TO VERY ROUGH ALONG & OFF NORTH OMAN COAST. THE ESTIMATED CENTRAL PRESSURE IS 998 HPA.

REMARKS:

THE SYSTEM IS VERY LIKELY TO MOVE WEST-SOUTHWESTWARDS AND WEAKEN INTO A DEPRESSION DURING NEXT 12 HOURS.

**(SUNITHA DEVI S.)
SCIENTIST-F, RSMC, NEW DELHI**





OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM “SHAHEEN”) OVER NORTH OMAN AND ADJOINING UNITED ARAB OF EMIRATES BASED ON 0300 UTC OF 4th 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



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF OF DEEP DEPRESSION (REMNANT OF CYCLONIC STORM "SHAHEEN") OVER NORTH OMAN AND ADJOINING UNITED ARAB OF EMIRATES BASED ON 0300 UTC OF 4th 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