



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

DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 07.10.2025

**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,
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NATIONAL CENTRE FOR METEOROLOGY, UAE (THROUGH RTH JEDDAH)
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IRAN METEOROLOGICAL ORGANISATION, (THROUGH RTH JEDDAH)
QATAR METEOROLOGICAL DEPARTMENT (THROUGH RTH JEDDAH)**

SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0300 UTC OF 07.10.2025 BASED ON 0000 UTC OF 07.10.2025

Sub: Deep Depression (Remnant of Cyclonic Storm “Shakhti” [Pronunciation: Shakhti]) over westcentral and adjoining northwest Arabian Sea

The Deep Depression over westcentral and adjoining northwest Arabian Sea moved nearly south-southeastwards with a speed of 8 kmph during the past 06 hours and lay centered at 0000 UTC of today, the 7th October, 2025 over the same region, near latitude 19.1°N and longitude 60.3°E, about 230 km southeast of Masirah (Oman,41288), 360 km south of Ras Al Hadd (Oman,41270), 930 km east-northeast of Al-Ghaidah (Yemen,41398), 960 km southwest of Karachi (Pakistan,41780), 980 km west-southwest of Dwarka (India,42731) and 1000 km west-southwest of Naliya (India,42631).

It is likely to move slowly east-southeastwards over westcentral & adjoining northwest Arabian Sea and weaken into a depression during next 6 hours.

Estimated central pressure of the system is 1000 hPa. Associated maximum sustained wind speed is 25 kt gusting to 30 kt.

As per INSAT 3D imagery at 0000 UTC of 07th October, the clouds have disorganised. The system is centered near 19.1°N/60.3°E with intensity as T2.0/CI 2.0. Associated scattered to broken low and medium clouds with embedded intense convection lay over Westcentral and adjoining Northwest Arabian Sea between latitude 15.0°N & 21.0°N and longitude 57.0°E & 63.0°E (Minimum cloud top

temperature is minus 60 to 80°C). As per multi-satellite based winds, stronger winds are seen in northwest sector. As per CIMSS ADT, the temperature of core region is 20.1°C and cloud region temperature is -3.3°C.

Forecast location and intensity are given in following table:

Date/Time (UTC)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
07.10.25/0000	19.1/60.3	50-60 gusting to 70	Deep Depression
07.10.25/0600	18.8/60.6	45-55 gusting to 65	Depression
07.10.25/1200	18.6/61.0	30-40 gusting to 50	Well Marked Low pressure area

Wind warning:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is prevailing over westcentral & adjoining northwest Arabian Sea. It would gradually decrease becoming 45-55 kmph gusting to 65 kmph by 0600 UTC of 7th October and gradually reduce thereafter.

Sea condition:

Sea condition is very likely to be very rough to rough over westcentral and adjoining northwest Arabian Sea till 0600 UTC of 7th October and improve thereafter.

Fishermen warnings:

Fishermen are advised not to venture into Westcentral & adjoining Northwest Arabian Sea till 7th October.

REMARKS:

The sea surface temperature (SST) is 27-28°C near the system area and along the predicted path over westcentral and adjoining northwest Arabian Sea. The Madden Julian Oscillation (MJO) is currently in phase 3 with amplitude less than 1. It is likely to continue in same phase with gradually decreasing amplitude during next 2 days. It is favourable enhancement of convective activity over the Arabian Sea.

As per the guidance from CIMSS, the low level vorticity has decreased during past 3 hours and is about $100 \times 10^{-6} \text{ s}^{-1}$ around the system at 850 hPa. Vertically it is extending upto 500 hPa level. The low level convergence is around $10 \times 10^{-6} \text{ s}^{-1}$ to the southwest of system centre and negative convergence zone is seen over the system area. Upper level divergence has is about $5-10 \times 10^{-6} \text{ s}^{-1}$ to the west of system centre. Vertical wind shear (VWS) of horizontal wind is moderate to high (20-30 kt) over the system area and along the predicted path over westcentral and adjoining northwest Arabian Sea. Total Precipitable water (TPW) imagery is indicating significant reduction in warm moist air incursion into the core and cold dry air intrusion is seen upto southeast sector. Reduction in moisture content and high wind shear is leading to gradual weakening of the system. IR-WV imagery is indicating significant reduction in moisture over the system area. Deep layer mean winds from west are steering the system nearly eastwards.

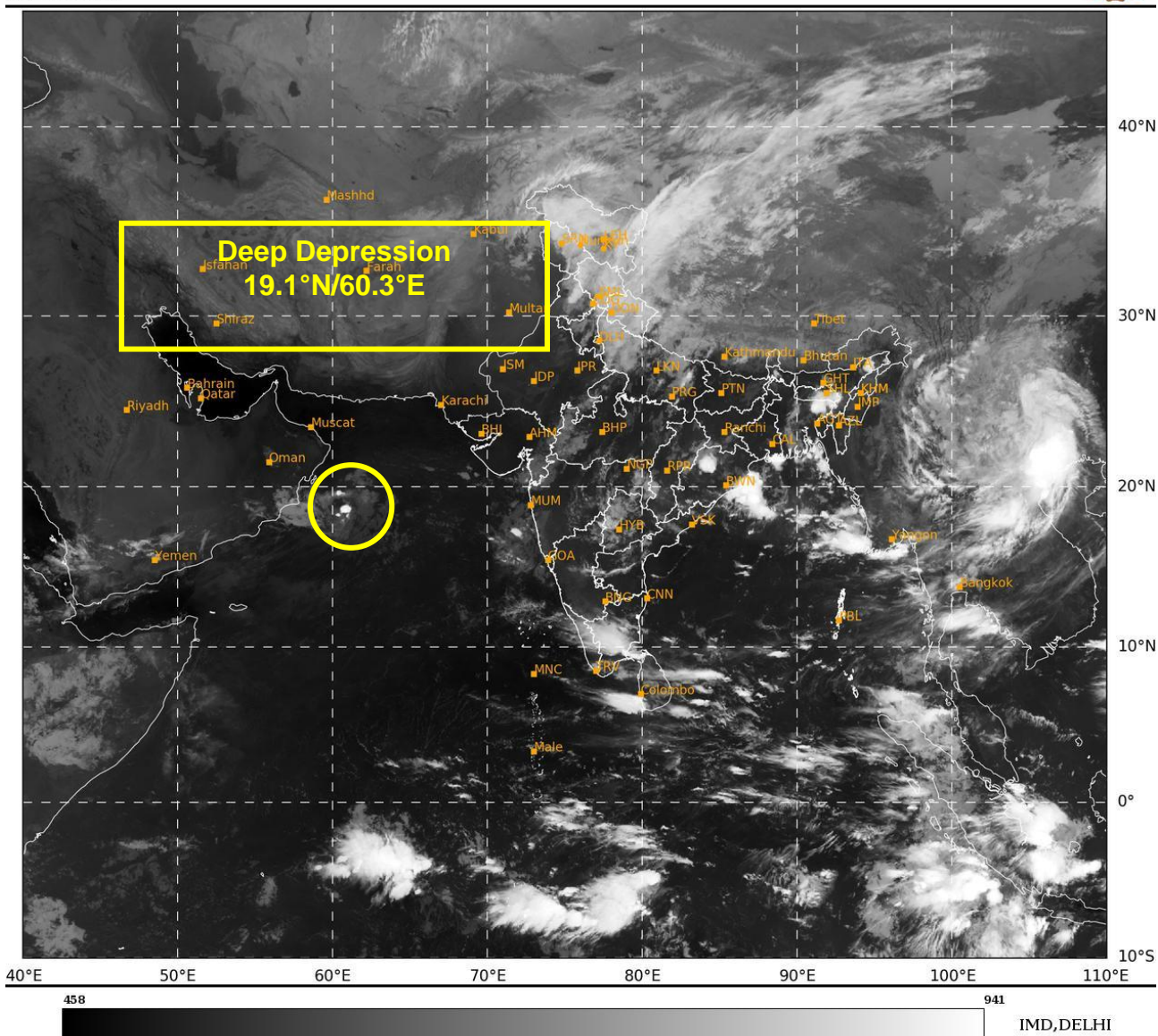
Confidence in determination of centre ($\pm 0.1^\circ\text{N}$ in latitude & $\pm 0.1^\circ\text{E}$ in longitude) is high and intensity ($\pm 5\text{kt}$) is high. There is moderate confidence in prediction of track due to fair consensus among various models wrt recurvature point & time. However, intensity is predicted with high confidence.

Majority of the models are indicating slow movement and slow weakening of the system over Westcentral Arabian Sea during next 24 hours.

(Dr. Chinmay Kumar Jena)
Scientist-D, IMD New Delhi

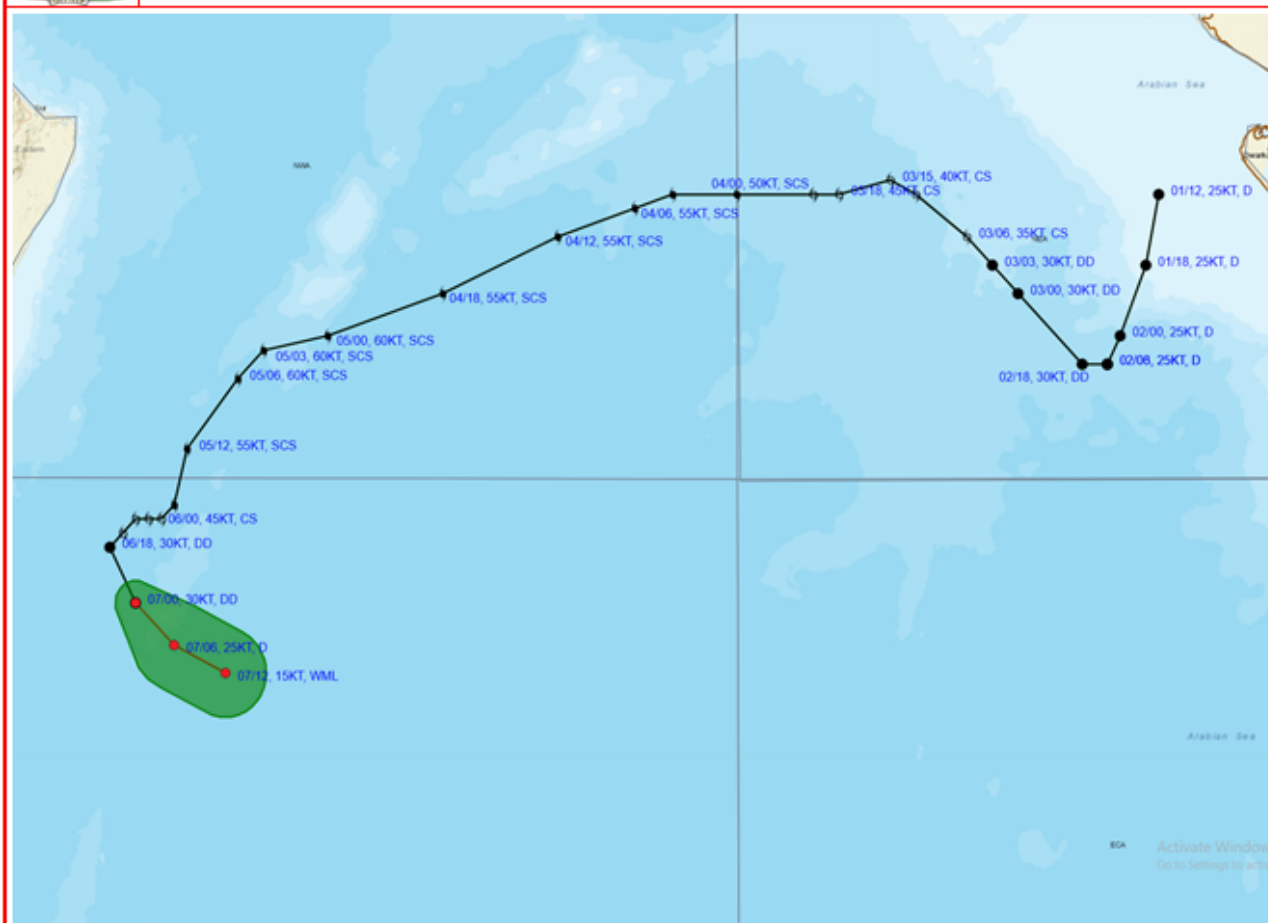
SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
LIC Mercator

07-10-2025/(0145 to 0212) GMT
07-10-2025/(0715 to 0742) IST





OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION (REMANANT OF SEVERE CYCLONIC STORM SHAKHTI) OVER WESTCENTRAL AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 7TH OCTOBER, 2025



DATE/TIME IN UTC

1 KT = 1.85 KMPH

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)

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

SuCS: SUPER CYCLONIC STORM ≥ 120 KT

● LESS THAN 34 KT

○ 34-47 KT

○ ≥ 48 KT

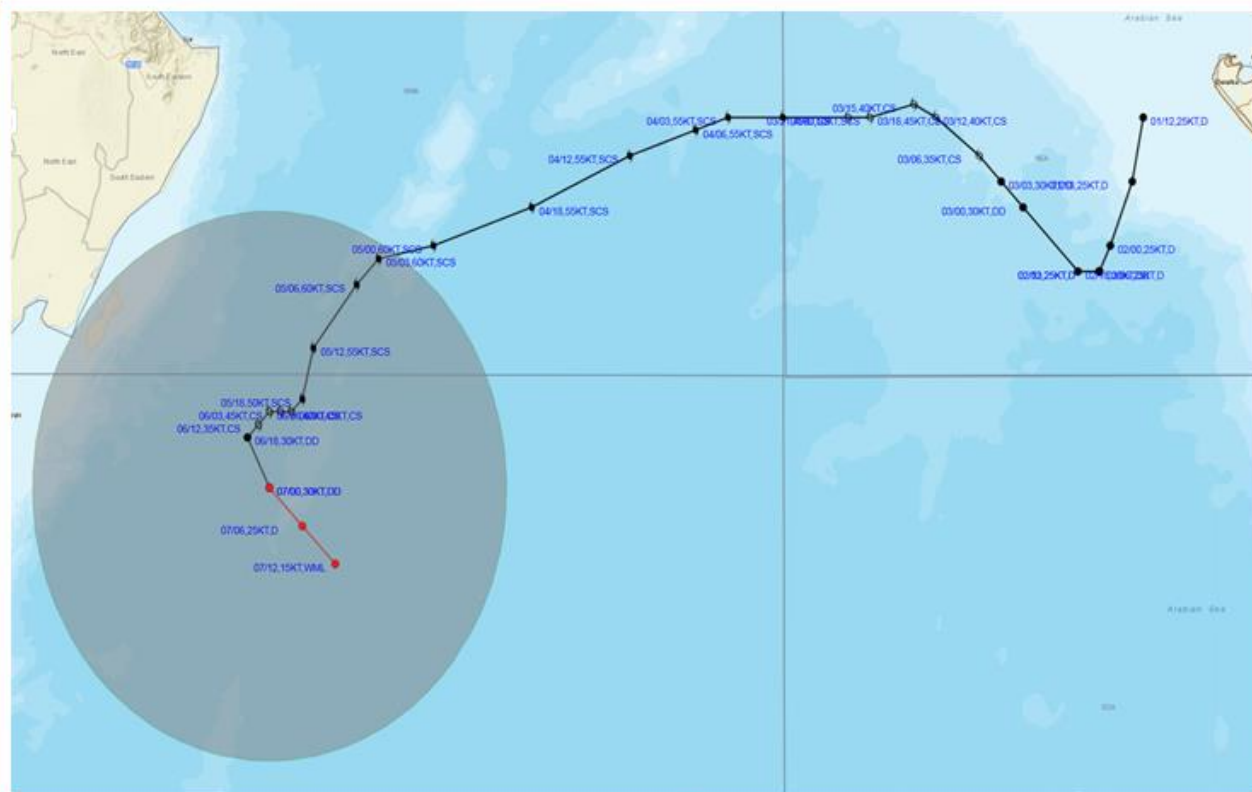
— OBSERVED TRACK

— FORECAST TRACK

▲ CONE OF UNCERTAINTY



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'SHAKTI' OVER WESTCENTRAL AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 0000 UTC (0530 IST) OF 7TH OCTOBER, 2025



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)

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SuCS: SUPER CYCLONIC STORM ≥ 120 KT

1 KT = 1.85 KMPH

● 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)

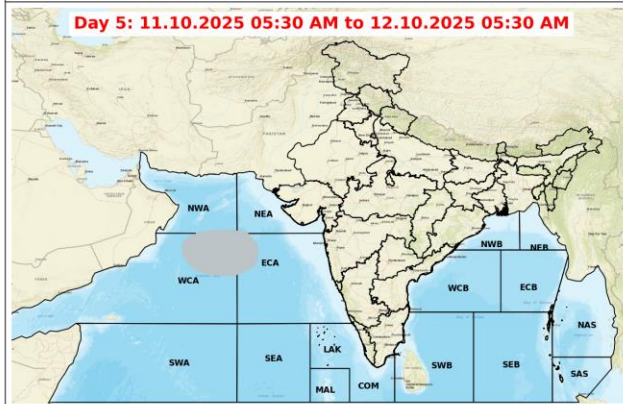
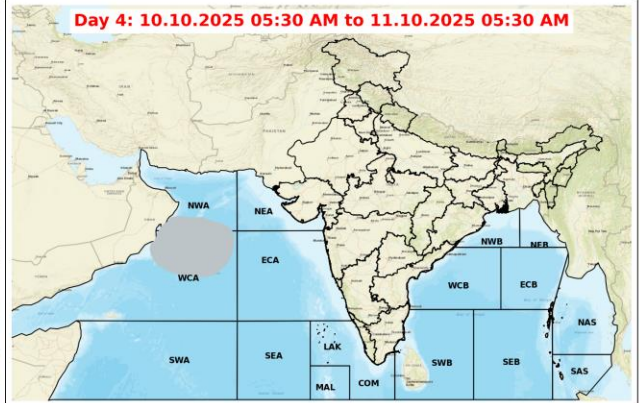
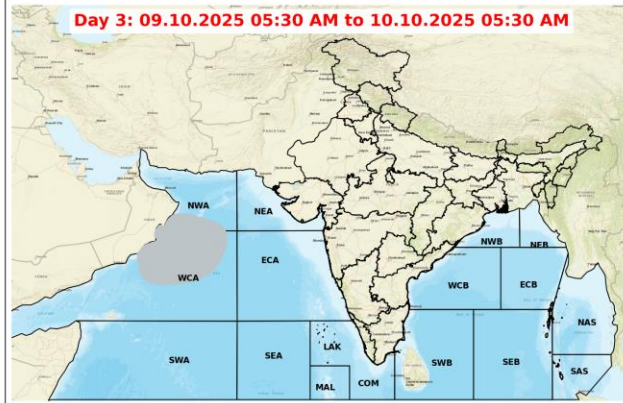
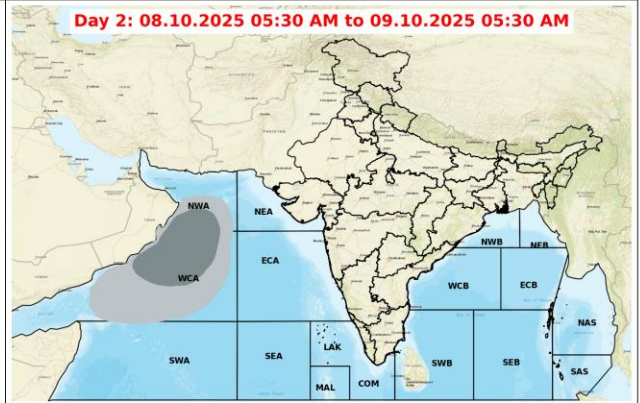
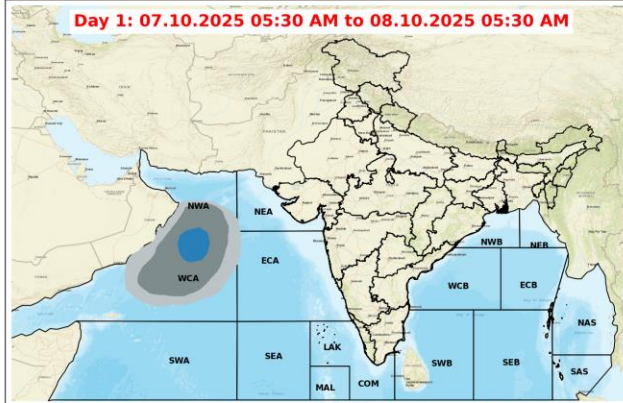
— 50-63 KT (92-117 KMPH)

— ≥ 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

Fishermen Warning Graphics



Legend

- | | |
|---|---|
| Squally Weather with wind speed 35-45 kmph gusting to 55 kmph | Squally wind with speed 55-65 kmph gusting to 75 kmph |
| Squally Weather with wind speed 40-50 kmph gusting to 60 kmph | CS with Gale winds with speed 60-80 kmph gusting to 90 kmph |
| Squally Weather with wind speed 45-55 kmph gusting to 65 kmph | SCS with Gale wind speed 90-110 kmph gusting to 120 kmph |
| Squally wind with speed 45-55 kmph gusting to 65 kmph | VSCS with Gale wind speed 120-165 kmph gusting to 185 kmph |
| Squally wind with speed 50-60 kmph gusting to 70 kmph | ESCS with Gale wind speed 165-220 kmph gusting to 245 kmph |

Fishermen are advised not to venture into the marked areas.