REGIONAL SPECIALISED METEOROLOGICAL CENTRE -TROPICAL CYCLONES, NEW DELHI
TROPICAL CYCLONE ADVISORY NO. 21

DEMS-RSMCSPECIAL TROPICAL CYCLONES NEW DELHI DATED 05.10.2025

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,
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. 21 FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 2100 UTC OF 05.10.2025 BASED ON 1800 UTC OF 05.10.2025

Sub: Severe Cyclonic Storm “Shakhti” [Pronunciation: Shakhti] over Westcentral and adjoining northwest Arabian Sea

The severe cyclonic storm “Shakhti” [Pronunciation: Shakhti] over northwest & adjoining Westcentral Arabian Sea moved south-southwestwards with a speed of 7 kmph during last 6 hours and lay centered at 1800 UTC of 5th October, 2025 over westcentral and adjoining northwest Arabian Sea, near latitude 19.9°N and longitude 60.6°E, about 200 km east-southeast of Masirah (Oman), 280 km south- southeast of Ras Al Hadd (Oman), 870 km southwest of Karachi (Pakistan), 920 km west-southwest of Dwarka and 930 km west-southwest of Naliya.

It is likely to continue to move south-southwestwards and weaken gradually into a cyclonic storm by 0000 UTC of 6th October. Thereafter, it will recurve and move nearly eastwards over westcentral & adjoining northwest Arabian Sea and weaken further into a depression by 0600 UTC of 7th October.

Estimated central pressure of the system is 993 hPa. Associated maximum sustained wind speed is 50 kt gusting to 60 kt.

As per INSAT 3D imagery at 1800 UTC of 05th October, the clouds are organised in central dense overcast pattern. The system is centered near 20.0°N/60.4°E with intensity as T3.5. Associated scattered to broken low and medium clouds with embedded intense to very intense convection lay over

Westcentral and adjoining Northwest Arabian Sea (Minimum cloud top temperature minus 70 to 90°C) and moderate to intense convection lay over Oman coast (Minimum cloud top temperature – minus 40 to 60°C). As per multi-satellite based winds stronger winds are seen in northwest sector. As per CIMSS ADT, the temperature of core region is 11.6°C and cloud region temperature is –37.2°C.

Forecast location and intensity are given in following table:

Date/Time (UTC)	Position (Lat. ^{0}N/ long. ^{0}E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
05.10.25/1800	19.9/60.6	90-100 gusting to 110	Severe Cyclonic Storm
06.10.25/0000	19.6/60.4	80-90 gusting to 100	Cyclonic Storm
06.10.25/0600	19.4/60.2	70-80 gusting to 90	Cyclonic Storm
06.10.25/1200	19.3/60.2	60-70 gusting to 80	Cyclonic Storm
06.10.25/1800	19.2/60.3	55-65 gusting to 75	Deep Depression
07.10.25/0600	19.1/60.6	45-55 gusting to 60	Depression

Wind warning:

- Gale wind speed reaching 90-100 kmph gusting to 110 kmph is prevailing over westcentral & adjoining northwest Arabian Sea. It would gradually decrease becoming 80-90 kmph gusting to 100 kmph by morning of 6th October over Westcentral & adjoining Northwest Arabian Sea. Winds would further decrease becoming 60-70 kmph gusting to 80 kmph by evening of 6th October.
- Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over Westcentral & adjoining Northwest Arabian Sea from midnight of 6th October and becoming 40-50 kmph gusting to 60 kmph by morning of 7th October.
- Squally weather with wind speed reaching 35-45 kmph gusting to 55 kmph is very likely to prevail over Northeast Arabian Sea and along & off Saurashtra and Kutch Coasts till morning of 6th October.

Sea condition:

- Sea condition is very likely to be very high to high over Northwest and adjoining Westcentral Arabian Sea till 6th October morning. Thereafter, it is likely to become very rough to rough over westcentral and adjoining northwest Arabian Sea till 7th October.
- Sea condition is very likely to be rough over Northeast Arabian Sea and along & off Saurashtra and Kutch Coasts till morning of 6th October.

Fishermen warnings:

Fishermen are advised not to venture into Westcentral & Northwest Arabian Sea till 7th October and adjoining areas of northeast Arabian Sea & along and off Saurashtra & Kutch coasts till morning of 6th October.

REMARKS:

The sea surface temperature (SST) is 27-29°C near the system area and along the predicted path over northwest and adjoining northeast 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 3 days. It is favourable for cyclogenesis over the Arabian Sea.

The guidance from the NCICS CFS model is indicating westerly wind anomaly (5-7mps) over westcentral Bay of Bengal (BoB) along with easterly winds anomaly (1-3mps) over north BoB & adjoining east India during next 2-3 days. The model is also indicating westerly wind anomaly (5-7mps) over central AS along with MJO and easterly wind anomaly (5-7 mps) over north AS during next 2-3 days. These features indicate that equatorial waves would contribute positively towards the maintenance of convective activity in association with the cyclonic storm over the AS during next 2-3 days.

As per the guidance from CIMSS, the low level vorticity is the same during past 3 hours and is about 150 X 10^{-6} s^{-1} around the system at 850 hPa. Vertically it is extending upto 200 hPa level. The low level convergence is around 20 X 10^{-6} s^{-1} to the southwest of system centre, and negative convergence to the north. Upper level divergence is about 10 X 10^{-6} s^{-1} to the south 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 northwest and adjoining westcentral Arabian Sea. Total Precipitable water (TPW) imagery is indicating significant reduction in warm moist air incursion into the core and cold dry air intrusion as the system moves southwards. Reduction in moisture content and high wind shear is leading to gradual weakening of the system. IR-WV imagery is indicating intense convection to the south of system area. Deep layer mean winds from northwest are preventing further westwards movement of the system leading to southwestwards movement initially followed by gradual eastwards recurvature.

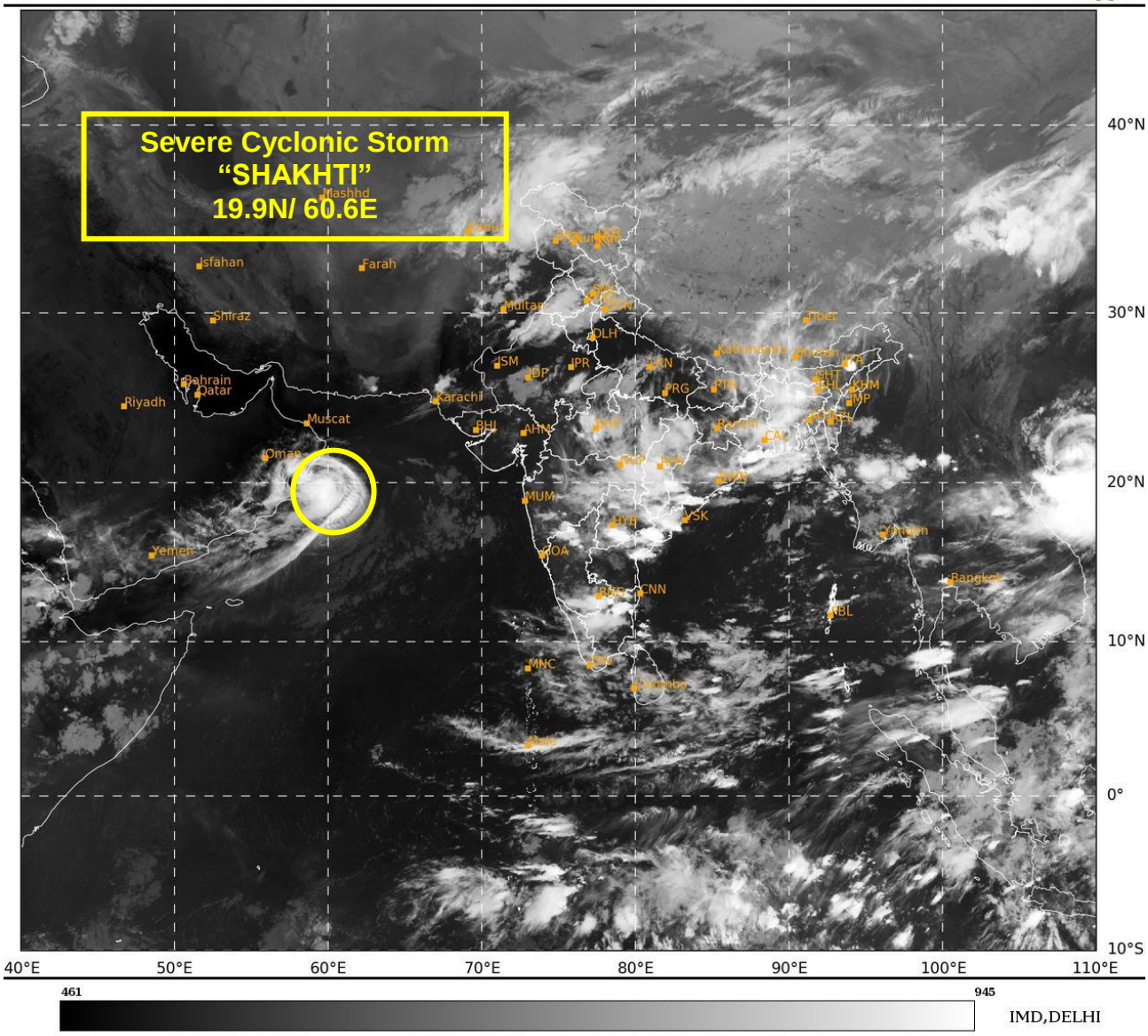
Confidence in determination of centre (± 0.2° in latitude & ± 0.3° in longitude) is moderate to high and intensity (± 3 kt) is high.

There is good consensus among various models w.r.t south-southwestwards movement over westcentral and adjoining northwest Arabian Sea during next 24 hours, followed by gradual eastwards recurvature. There is good consensus among the models w.r.t weakening of the system over the sea into a Depression by forenoon of 7th October while moving eastwards.

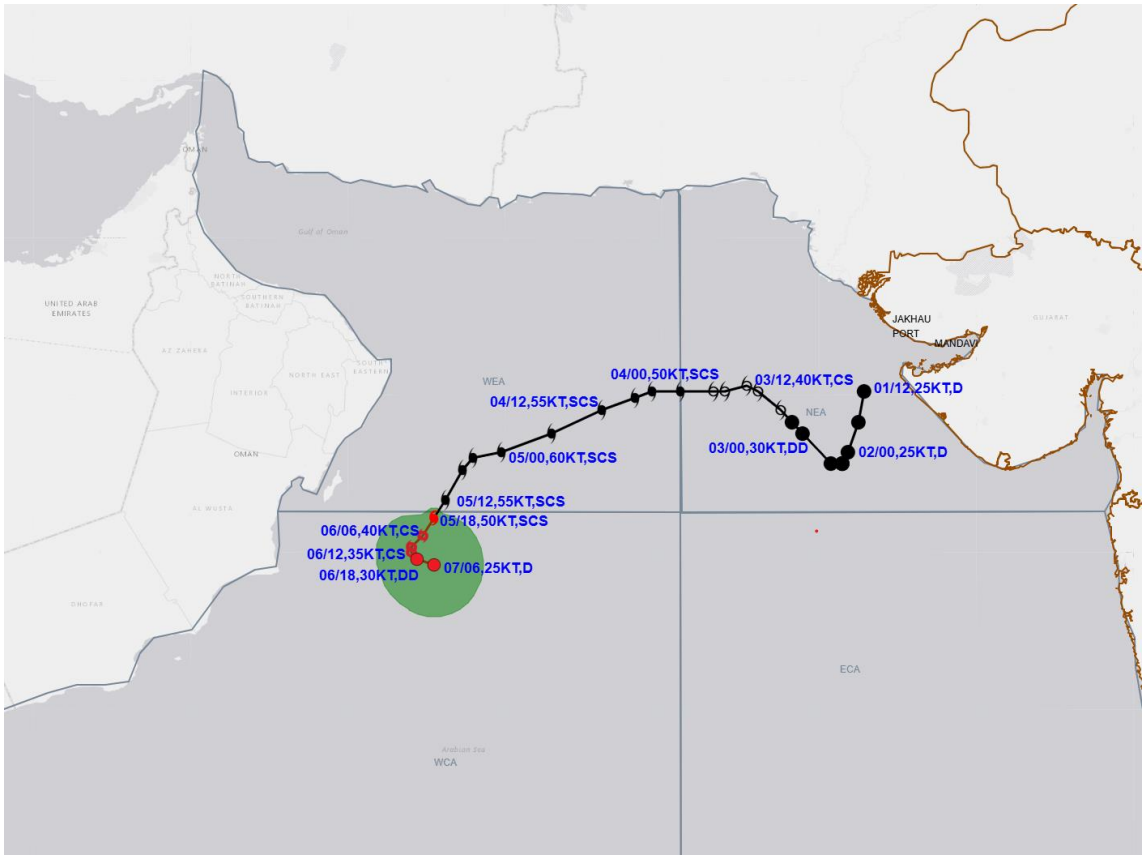
(Dr. PLN Murty)
Scientist-E, IMD New Delhi

SAT : INSAT-3DR IMG
IMG_TIR1 10.8 um
L1C Mercator

05-10-2025/(1645 to 1712) GMT
05-10-2025/(2215 to 2242) IST



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM 'SHAKHTI' OVER WESTCENTRAL AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 5TH OCTOBER, 2025



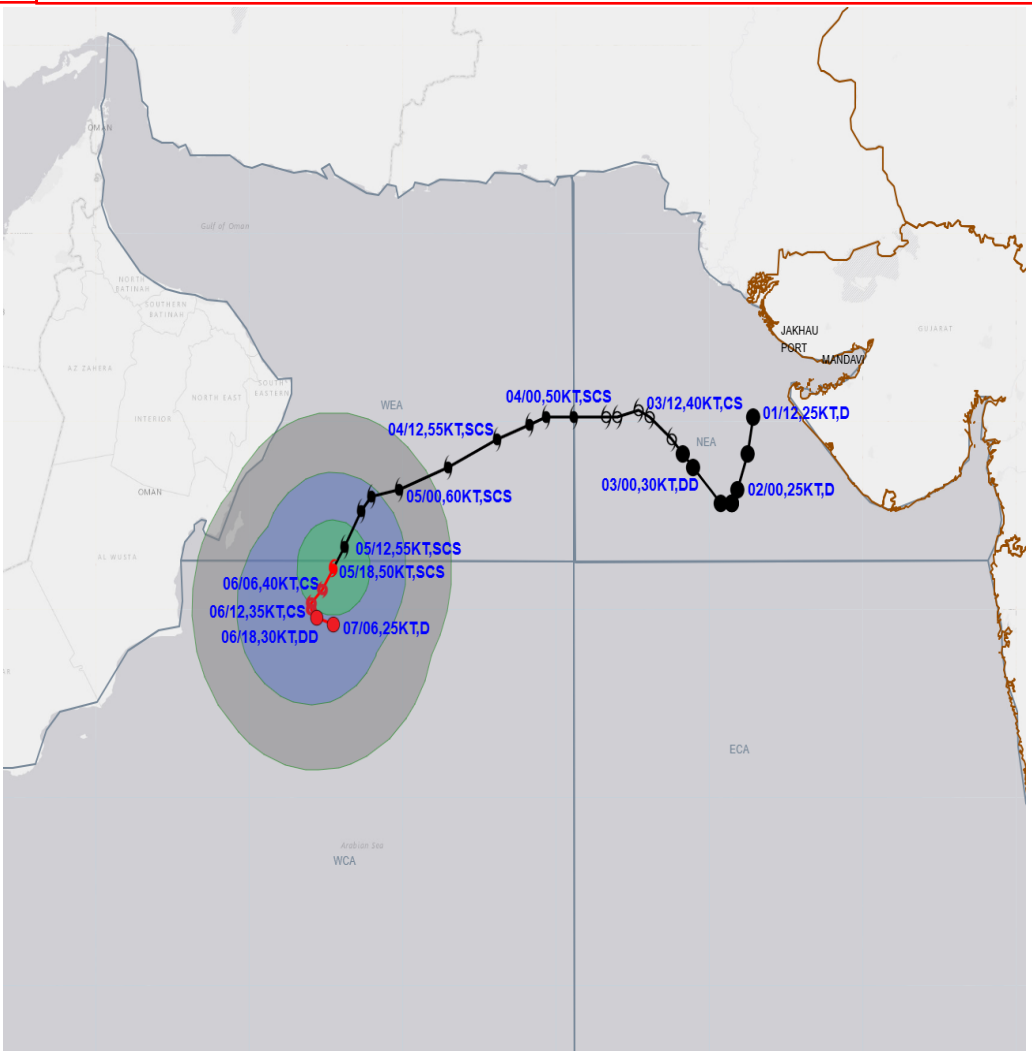
DATE/TIME IN UTC
IST = UTC + 0530
1 KT = 1.85 KMPH
L: LOW PRESSURE AREA
WML: WELL MARKED LOW PRESSURE AREA
D: DEPRESSION (17-27 KT)
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)
SCS: SEVERE CYCLONIC STORM (48-63 KT)
VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)
ESCS: EXTREMELY SEVERE CYCLONIC 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
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

OBSERVED AND FORECAST TRACK OF SEVERE CYCLONIC STORM 'SHAKHTI' OVER WESTCENTRAL AND ADJOINING NORTHWEST ARABIAN SEA BASED ON 1800 UTC (2330 IST) OF 5TH OCTOBER, 2025
, 2025



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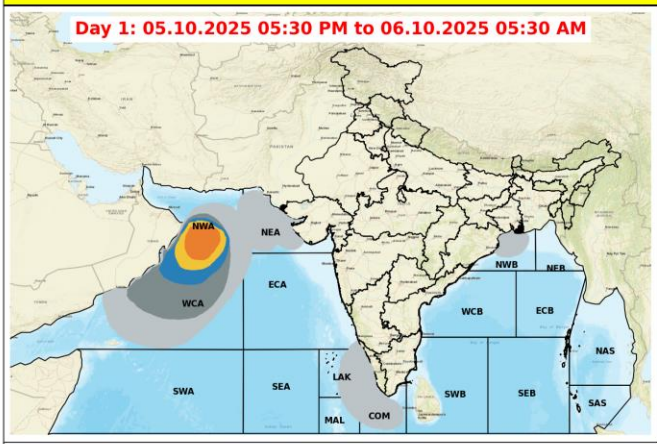
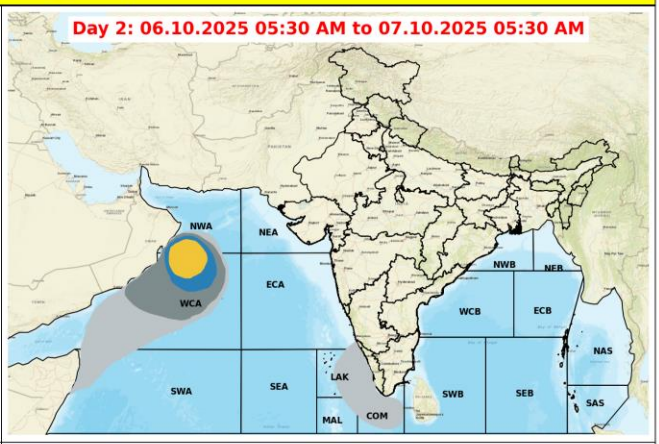
LESS THAN 34 KT
34-47 KT
≥ 48 KT
OBSERVED TRACK
FORECAST TRACK
CONE OF UNCERTAINTY

Fishermen Warning Graphics

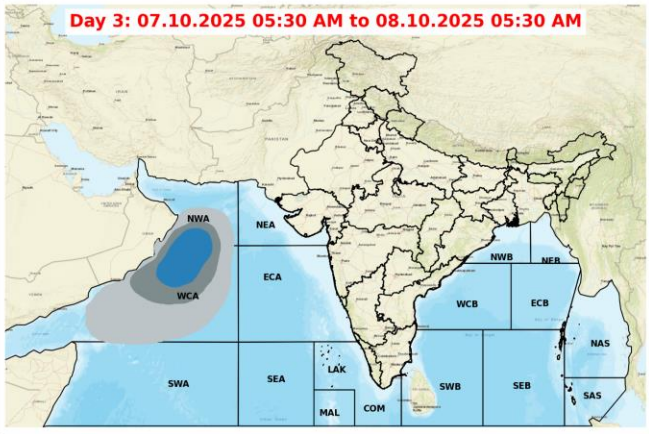
Day 1: 05.10.2025 05:30 PM to 06.10.2025 05:30 AM



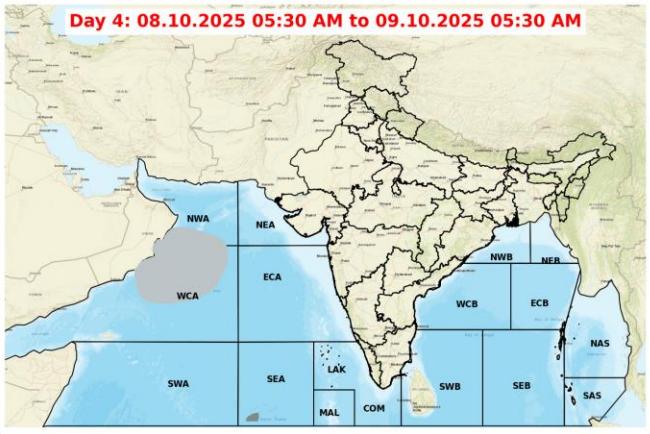
Day 2: 06.10.2025 05:30 AM to 07.10.2025 05:30 AM



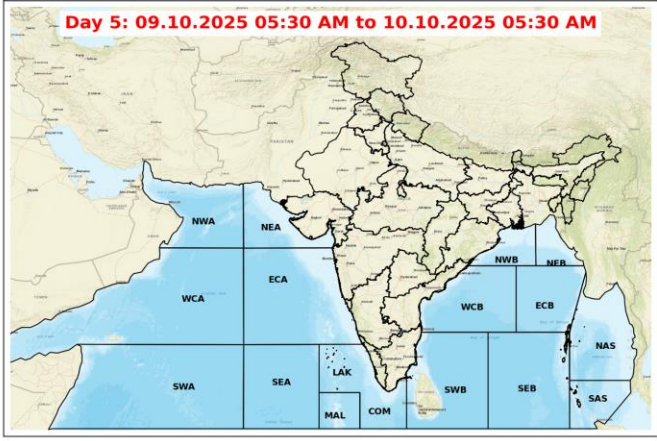
Day 3: 07.10.2025 05:30 AM to 08.10.2025 05:30 AM



Day 4: 08.10.2025 05:30 AM to 09.10.2025 05:30 AM



Day 5: 09.10.2025 05:30 AM to 10.10.2025 05:30 AM



Legend

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

Fishermen are advised not to venture into the marked areas.