

GLOBAL MARITIME 240830 IST

DATE/TIME OF ISSUE: 24-10-2024/0300 UTC

SPL GMDSS BULLETIN NO-8 240300

ISSUED BY: INDIA METEOROLOGICAL DEPARTMENT, NEW DELHI

HIGH SEA FORECAST FOR MET. AREA VIII (N)

AREA OF COVERAGE: AREA OF THE INDIAN OCEAN ENCLOSED BY LINES FROM THE INDO-PAKISTAN FRONTIER AT 23°45'N 68 DEG E TO 00 DEG N 6 DEG E, THENCE TO CAPE GARDAFUI; THE EAST AFRICAN COAST SOUTH TO THE EQUATOR, THENCE TO 95 DEG E, TO 6 DEG N, THENCE NORTH EASTWARDS TO MYANMAR/THAIL FRONTIER IN 10 DEG N 98 DEG 30'E NORTHWARDS COVERING ENTIRE BAY OF BENGAL.

VALID FROM 03 UTC OF 24TH OCTOBER 2024 TO 12 UTC OF 25TH OCTOBER 2024.

PART-I STORM WARNING:

SUBJECT: SEVERE CYCLONIC STORM "DANA" OVER CENTRAL & ADJOINING NORTHWEST BAY OF BENGAL (CYCLONE WARNING FOR ODISHA AND WEST BENGAL COASTS: **RED MESSAGE)**

THE SEVERE CYCLONIC STORM "DANA" (PRONOUNCED AS DANA) OVER CENTRAL & ADJOINING NORTHWEST BAY OF BENGAL MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 15 KMPH DURING PAST 6 HOURS, AND LAY CENTRED AT 21 UTC OF TODAY, THE 23TH OCTOBER, OVER THE SAME REGION, NEAR LATITUDE 18.3 DEG N AND LONGITUDE 88.3 DEG E, ABOUT 280 KM SOUTHEAST OF PARADIP (ODISHA), 310 KM SOUTH-SOUTHEAST OF DHAMARA (ODISHA) AND 370 KM SOUTH-SOUTHEAST OF SAGAR ISLAND (WEST BENGAL).

IT IS VERY LIKELY TO MOVE NORTHWESTWARDS AND CROSS NORTH ODISHA AND WEST BENGAL COASTS BETWEEN PURI AND SAGAR ISLAND CLOSE TO BHITARKANIKA AND DHAMARA (ODISHA) DURING MID-NIGHT OF 24TH TO MORNING OF 25TH OCTOBER, 2024 AS A SEVERE CYCLONIC STORM WITH A WIND SPEED OF 100-110 KMPH GUSTING 120 KMPH.

FUTURE POSITION, DATE AND INTENSITY OF THE SYSTEM ARE GIVEN BELOW:

DATE/TIME (IST)	POSITION (LAT. °N/LONG. °E)	MAXIMUM SUSTAINED SURFACE WIND SPEED (KMPH)	
24.10.24/0230	18.3/88.3	90-100 GUSTING TO 110	SEVERE CYCLONIC STORM
24.10.24/0530	18.5/88.2	95-105 GUSTING TO 115	SEVERE CYCLONIC STORM
24.10.24/1130	19.2/87.9	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
24.10.24/1730	19.9/87.6	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
24.10.24/2330	20.5/87.3	100-110 GUSTING TO 120	SEVERE CYCLONIC STORM
25.10.24/1130	21.0/86.7	70-80 GUSTING TO 90	CYCLONIC STORM
25.10.24/2330	21.3/85.8	40-50 GUSTING TO 60	DEPRESSION
26.10.24/1130	21.4/84.9	30-40 GUSTING TO 50	WELL MARKED LOW PRESSURE AREA

QUADRANT WIND INFORMATION:

24.10.2024/0000:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS AND EXTENDING UP TO 150 NM IN THE SW, 200 NM IN THE SE QUADRANTS.

GALE WINDS REACHING 34 KT AT AROUND 75 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 85 SW IN THE SW QUADRANT, AND EXTENDING UP TO 100 NM IN THE NE, SE QUADRANTS.

GALE WINDS REACHING 50 KT AT AROUND 50 NM RADIUS FROM THE CENTRE IN THE NW, SW QUADRANTS, AND EXTENDING UP TO 70 NM IN THE NE, SE QUADRANTS.

24.10.2024/1200:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 100 NM FROM THE CENTRE IN THE NE QUADRANT, EXTENDING UP TO 150 NM & 200 NM IN THE SW, SE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 34 KT AT AROUND 75 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 85 SW IN THE NW QUADRANT, AND EXTENDING UP TO 100 NM IN THE NE, SE QUADRANTS.

GALE WINDS REACHING 50 KT AT AROUND 50 NM RADIUS FROM THE CENTRE IN THE NW, SW QUADRANTS, AND EXTENDING UP TO 70 NM IN THE NE, SE QUADRANTS.

25.10.2024/0000:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 100 NM FROM THE CENTRE IN THE NE QUADRANT, EXTENDING UP TO 160 NM & 200 NM IN THE SW, SE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 34 KT AT AROUND 75 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 85 NM IN THE NE QUADRANT, AND EXTENDING UP TO 100 NM IN THE SW, SE QUADRANTS.

GALE WINDS REACHING 50 KT AT AROUND 50 NM RADIUS FROM THE CENTRE IN THE NW, SW QUADRANTS, AND EXTENDING UP TO 70 NM IN THE NE, SE QUADRANTS.

25.10.2024/1200:

WINDSPEEDS REACHING 27 KT AT AROUND 100 NM RADIUS FROM THE CENTRE IN THE NW, QUADRANT, 80 NM FROM THE CENTRE IN THE NE QUADRANT, EXTENDING UP TO 160 NM & 180 NM IN THE SW, SE QUADRANTS RESPECTIVELY.

GALE WINDS REACHING 34 KT AT AROUND 75 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS, AND EXTENDING UP TO 85 NM IN THE SW, SE QUADRANTS.

PART-II SYNOPTIC WEATHER SYSTEM AT 2100 UTC:

THE UPPER AIR CYCLONIC CIRCULATION OVER COMORIN AREA & NEIGHBOURHOOD EXTENDING UPTO 5.8 KM ABOVE MEAN SEA LEVEL PERSISTS.

PART-III AREA FORECAST:

AREA: ARB A1 (ARABIAN SEA)-EQUATOR TO 10 DEG N W OF 80 DEG E.

ARB A1-FORECAST VALID FROM 03 UTC OF 24TH OCT 2024 TO 12 UTC OF 24TH OCT 2024.

I) WIND DIRECTION AND SPEED: SW-LY 05/15 KTS BEC CYCLONIC 05/10 KTS
AT 66 DEG E AND 8 DEGN.

II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) E OF 54 DEG E: WIDESPREAD RA/TS.

2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 54 DEG E: VERY POOR.

2) REST AREA: GOOD.

ARB A1-FORECAST VALID FROM 12 UTC OF 24TH OCT 2024 TO 12 UTC OF 25TH OCT 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 70 DEG E: SW-LY 05/10 KTS BEC CYCLONIC 05/10 KTS.
AT 63 DEG E AND 7 DEG N.

3) REST AREA: SW-LY 10/15 KTS.

II) WAVE HEIGHT: 1.0-1.5 M.

III) WEATHER: 1) E OF 55 DEG E: WIDESPREAD RA/TS.

2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 55 DEG E: VERY POOR.

2) REST AREA: GOOD.

ARB A2-ARABIAN SEA:-23 DEG 45 MIN N 68 DEG E TO 00 DEG N 63 DEG E TO CAPE GARDAFUI TO N OF 10 DEG N. 55

ARB A2-FORECAST VALID FROM 03 UTC OF 24TH OCT 2024 TO 12 UTC OF 24TH OCT 2024.

- I) WIND DIRECTION AND SPEED: NW/N-LY 05/10 KTS BEC NE-LY 05/10 KTS TO THE S OF 21 DEG N.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) S OF 15 DEG N TO THE E OF 58 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.
- IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 58 DEG E: VERY POOR.
2) REST AREA: GOOD.

ARB A2-FORECAST VALID FROM 12 UTC OF 24TH OCT 2024 TO 12 UTC OF 25TH OCT 2024.

- I) WIND DIRECTION AND SPEED: NW/N-LY 05/15 KTS BEC NE-LY 05/10 KTS TO THE S OF 20 DEG N.
- II) WAVE HEIGHT: 1.0-1.5 M.
- III) WEATHER: 1) S OF 15 DEG N TO THE E OF 60 DEG E: WIDESPREAD RA/TS.
2) REST AREA: FAIR.
- IV) VISIBILITY: 1) S OF 15 DEG N TO THE E OF 60 DEG E: VERY POOR.
2) REST AREA: GOOD.

BOB A3-BAY OF BENGAL: EQUATOR TO 10 DEG N BETWEEN E OF 80 DEG E WEST OF 10 DEG N/98 DEG 30 MIN E TO 6 DEG N/95 DEG E THENCE S-WARDS TO EQUATOR.

BOB A3-FORECAST VALID FROM 03 UTC OF 24TH OCT 2024 TO 12 UTC OF 24TH OCT 2024.

- I) WIND DIRECTION AND SPEED: SW-LY 10/20 KTS.
- II) WAVE HEIGHT: 1.5-2.5 M.
- III) WEATHER: 1) N OF 6 DEG N: WIDESPREAD RA/TS.
2) REST AREA: ISOLATED RA/TS.
- IV) VISIBILITY: 1) N OF 6 DEG N: VERY POOR.
2) REST AREA: GOOD.

BOB A3-FORECAST VALID FROM 12 UTC OF 24TH OCT 2024 TO 12 UTC OF 25TH OCT 2024.

- I) WIND DIRECTION AND SPEED: SW/W-LY 05/15 KTS BEC NW/N-LY 05/10 KTS
TO THE E OF 90 DEG E.
- II) WAVE HEIGHT: 1.0-2.5 M.
- III) WEATHER: 1) N OF 7 DEG N: FAIRLY WIDESPREAD RA/TS.
2) REST AREA: ISOLATED RA/TS.
- IV) VISIBILITY: 1) N OF 7 DEG N: POOR.
2) REST AREA: GOOD.

BOB: A4: BAY OF BENGAL N OF 10 DEG N E OF 80 DEG E.

BOB A4-FORECAST VALID FROM 03 UTC OF 24TH OCT 2024 TO 12 UTC OF 24TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 15 DEG N: CYCLONIC 48/63 KTS AT 18.8 DEG N AND 88.8 DEG E.
2) REST AREA: SW-LY 15/25 KTS.
- II) WAVE HEIGHT: 9.0-14.0 M.
- III) WEATHER: WIDESPREAD RA/TS.
- IV) VISIBILITY: VERY POOR.

BOB A4-FORECAST VALID FROM 12 UTC OF 24TH OCT 2024 TO 12 UTC OF 25TH OCT 2024.

- I) WIND DIRECTION AND SPEED: 1) N OF 15 DEG N: CYCLONIC 48/63 KTS AT 20.9 DEG N AND 86.9 DEG E.
2) REST AREA: SW-LY 15/25 KTS.
- II) WAVE HEIGHT: 9.0-14.0 M.
- III) WEATHER: 1) N OF 19 DEG N: WIDESPREAD RA/TS.
2) S OF 13 DEG N: WIDESPREAD RA/TS.
3) REST AREA: ISOLATED RA/TS.
- IV) VISIBILITY: 1) N OF 19 DEG N: VERY POOR
2) S OF 13 DEG N: VERY POOR
3) REST AREA: GOOD.

ADVISORY: PLEASE BE AWARE. WIND WAVE FORECASTS ARE AVERAGES. WIND GUSTS CAN BE 40 PER CENT STRONGER THAN THE FORECAST. MAXIMUM WAVE HEIGHT CAN BE TWICE THE FORECAST WAVE HEIGHT.

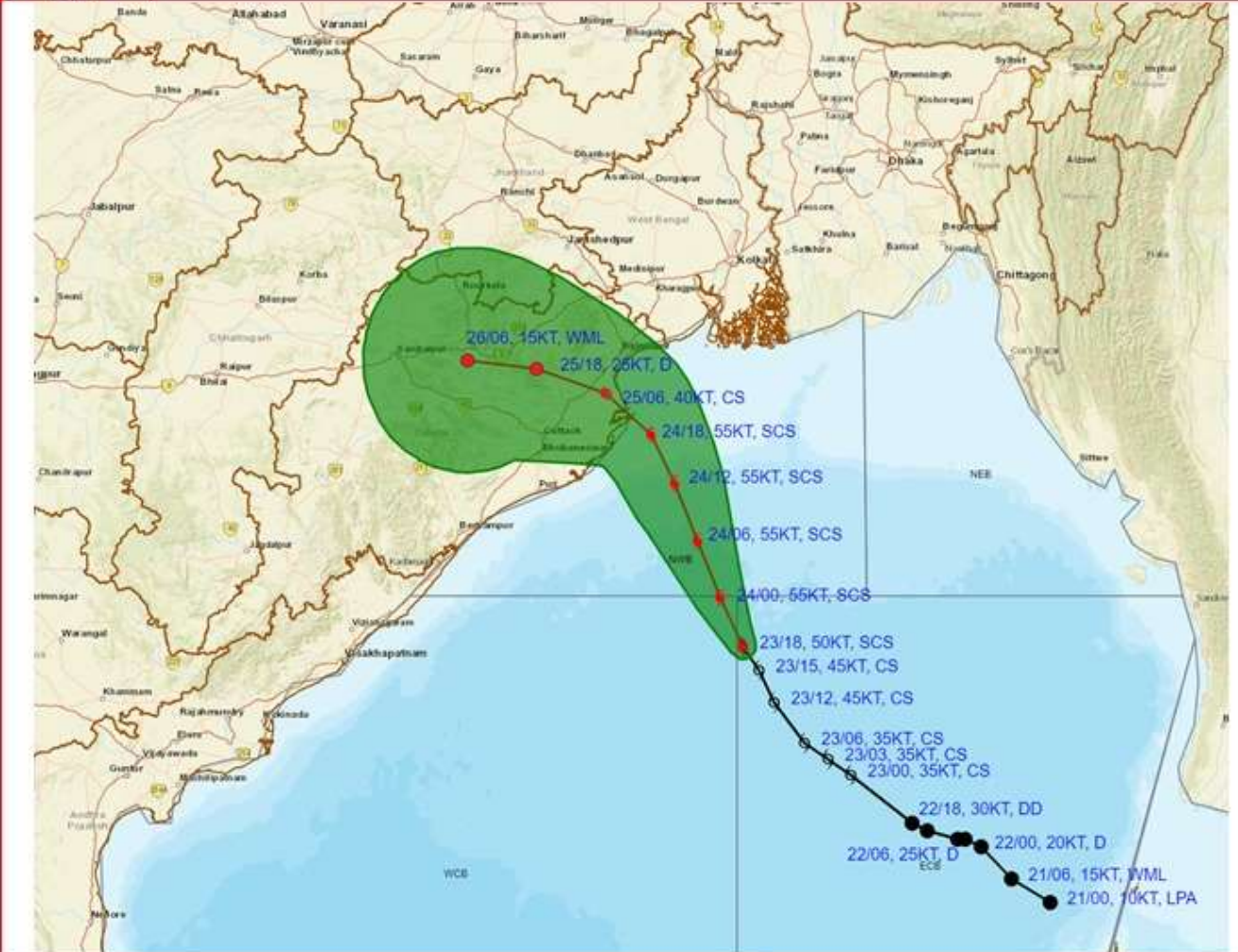
NEXT FORECAST WILL BE ISSUED AT 24/0800 UTC.

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TOO: 24/0830.



OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF CYCLONIC STORM 'DANA' OVER CENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL BASED ON 1800 UTC (2330 Hrs. IST) OF 23RD OCTOBER 2024



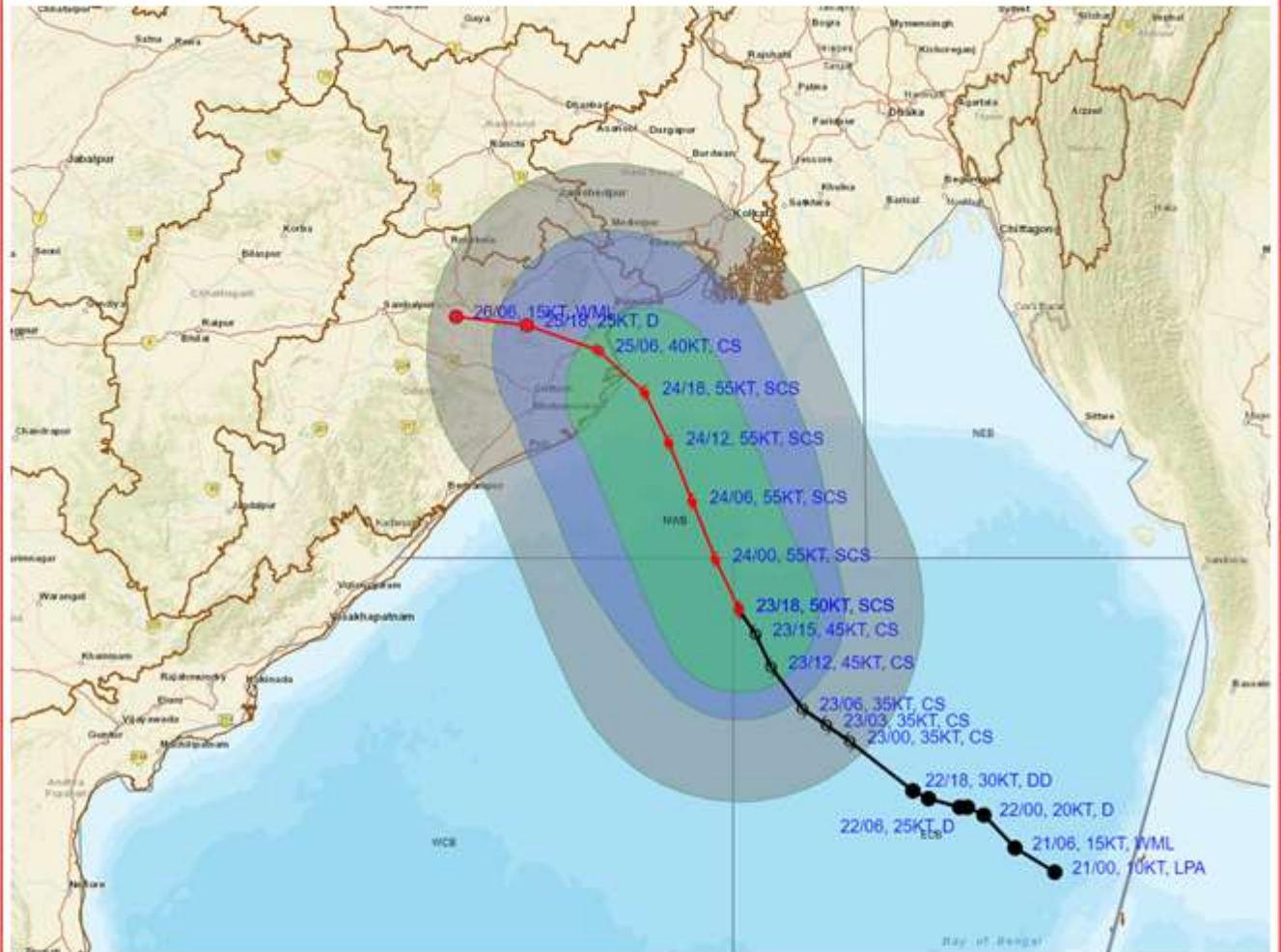
DATE/TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR
 LPA : LOW PRESSURE AREA
 WML : WELL MARKED LOW PRESSURE AREA
 D : DEPRESSION (17-27 KT)
 DD : DEEP DEPRESSION (28-33 KT)
 CS : CYCLONIC STORM (34-47 KT)
 SCS : SEVERE CYCLONIC STORM (48-63 KT)
 VSCS : VERY SEVERE CYCLONIC 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

Forecast	DISTANCE (KM) AND DIRECTION FROM STATIONS		
	PARADIP	DHAMARA	SAGAR ISLAND
Date and Time (UTC)			
23.10.24/1800	330, SE	360, SSE	420, SSE
24.10.24/1200	100, ESE	120, SE	190, SSW
25.10.24/1200	120, NNW	80, NW	190, WSW



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM 'DANA' OVER CENTRAL AND ADJOINING NORTHWEST BAY OF BENGAL BASED ON 1800 UTC (2330 Hrs. IST) OF 23RD OCTOBER 2024



DATE/TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR
 LPA : 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