

GLOBAL MARITIME 291730 IST

DATE/TIME OF ISSUE: 29-11-2024/1200 UTC

SPL GMDSS BULLETIN NO-13 291200

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 12 UTC OF 29TH NOVEMBER 2024 TO 00 UTC OF 30TH NOVEMBER 2024.

PART-I STORM WARNING:

SUB: CYCLONIC STORM "FENGAL" [PRONOUNCED AS FEINJAL] OVER SOUTHWEST BAY OF BENGAL (CYCLONE WARNING: RED MESSAGE FOR NORTH TAMIL NADU, PUDUCHERRY AND ADJOINING SOUTH ANDHRA PRADESH COASTS).

THE DEEP DEPRESSION OVER SOUTHWEST BAY OF BENGAL MOVED NORTH-NORTHWESTWARDS WITH A SPEED OF 13 KMPH DURING PAST 6 HOURS, INTENSIFIED INTO A CYCLONIC STORM "FENGAL" [PRONOUNCED AS FEINJAL] AND LAY CENTRED AT 1430 HOURS IST OF TODAY, THE 29TH NOVEMBER 2024 OVER THE SAME REGION NEAR LATITUDE 11.2°N AND LONGITUDE 82.2°E, ABOUT 310 KM NORTH-NORTHEAST OF TRINCOMALEE, 260 KM EAST OF NAGAPPATTINAM, 270 KM EAST-SOUTHEAST OF PUDUCHERRY AND 300 KM SOUTHEAST OF CHENNAI.

IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU-PUDUCHERRY COASTS BETWEEN KARAIKAL AND MAHABALIPURAM CLOSE TO PUDUCHERRY AS A CYCLONIC STORM WITH A WIND SPEED OF 70-80 KMPH GUSTING TO 90 KMPH DURING AFTERNOON OF 30TH NOVEMBER.

Forecast track and intensity are given in the following table:

Date/ Time (IST)	Position (Lat. °N/ long. °E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
29.11.24/1430	11.2/82.2	60-70 gusting to 80	Deep Depression
29.11.24/1730	11.4/81.9	60-70 gusting to 80	Cyclonic Storm
29.11.24/2330	11.6/81.5	65-75 gusting to 85	Cyclonic Storm
30.11.24/0530	11.8/80.9	70-80 gusting to 90	Cyclonic Storm
30.11.24/1130	11.9/80.3	70-80 gusting to 90	Cyclonic Storm
30.11.24/2330	12.1/79.1	50-60 gusting to 70	Deep Depression

QUADRANT WIND FORECAST:

29.11.24/1730:

WINDSPEEDS REACHING 27 KT AT AROUND 110 NM RADIUS FROM THE CENTRE IN THE NW QUADRANT, 150 NM FROM THE CENTRE IN THE NE QUADRANT, 90 NM & 100 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

WINDSPEEDS REACHING 34 KT AT AROUND 55 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS, 70 NM & 50 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

29.11.24/2330:

WINDSPEEDS REACHING 27 KT AT AROUND 110 NM RADIUS FROM THE CENTRE IN THE NW QUADRANT, 150 NM FROM THE CENTRE IN THE NE QUADRANT, 90 NM & 100 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

WINDSPEEDS REACHING 34 KT AT AROUND 55 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS, 70 NM & 50 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

30.11.24/0530:

WINDSPEEDS REACHING 27 KT AT AROUND 110 NM RADIUS FROM THE CENTRE IN THE NW QUADRANT, 150 NM FROM THE CENTRE IN THE NE QUADRANT, 90 NM & 100 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

WINDSPEEDS REACHING 34 KT AT AROUND 55 NM RADIUS FROM THE CENTRE IN THE NW, NE QUADRANTS, 70 NM & 50 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

30.11.24/1730:

WINDSPEEDS REACHING 27 KT AT AROUND 110 NM RADIUS FROM THE CENTRE IN THE NW QUADRANT, 150 NM FROM THE CENTRE IN THE NE QUADRANT, 90 NM & 100 NM FROM THE CENTRE IN THE SW, SE QUADRANTS RESPECTIVELY.

PART-II SYNOPTIC WEATHER SYSTEM AT 0900 UTC:

PART-III AREA FORECAST:

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

ARB A1-FORECAST VALID FROM 12 UTC OF 29TH NOV 2024 TO 00 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 60 DEG E: NE/N-LY 05/15 KTS BEC NW-LY 05/15 KTS TO THE S OF 3 DEG N.

2) REST AREA: N/NW-LY 10/15 KTS BEC W/SW-LY 10/20 KTS TO THE E OF 75 DEG E.

II) WAVE HEIGHT: 1.5-3.0 M.

III) WEATHER: 1) S OF 4 DEG N: FAIRLY WIDESPREAD RA/TS.

2) REST AREA: SCATTERED RA/TS.

IV) VISIBILITY: 1) S OF 4 DEG N: POOR.

2) REST AREA: MODERATE.

ARB A1-FORECAST VALID FROM 00 UTC OF 30TH NOV 2024 TO 00 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 60 DEG E: NE/N-LY 05/15 KTS BEC NW-LY 05/15 KTS TO THE S OF 5 DEG N.

2) REST AREA: N/NW-LY 10/15 KTS BEC W/SW-LY 10/20 KTS TO THE E OF 75 DEG E.

II) WAVE HEIGHT: 1.5-3.0 M.

III) WEATHER: 1) S OF 3 DEG N TO THE E OF 60 DEG E: FAIRLY WIDESPREAD RA/TS.

2) REST AREA: SCATTERED RA/TS.

IV) VISIBILITY: 1) S OF 3 DEG N TO THE E OF 60 DEG E: POOR.

2) REST AREA: MODERATE.

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 12 UTC OF 29TH NOV 2024 TO 00 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) N OF 20 DEG N: ANTICYCLONIC 05/10 KTS.

2) REST AREA: NE/N-LY 05/15 KTS.

II) WAVE HEIGHT: 0.5-2.0 M.

III) WEATHER: 1) W OF 65 DEG E: ISOLATE RA/TS.

2) REST AREA: FAIR.

IV) VISIBILITY: GOOD.

ARB A2-FORECAST VALID FROM 00 UTC OF 30TH NOV 2024 TO 00 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: 1) N OF 20 DEG N: NW-LY 05/10 KTS BEC N/NW-LY 05/15 KTS TO THE S OF 23 DEG N.

2) S OF 20 DEG N TO THE E OF 70 DEG E: NE-LY 05/15 KTS BEC

N/NW-LY 05/15 KTS TO THE S OF 15 DEG N.
3) REST AREA: NE/N-LY 05/15 KTS.

II) WAVE HEIGHT: 0.5-2.0 M.
III) WEATHER: ISOLATED RA/TS.
IV) VISIBILITY: 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 12 UTC OF 29TH NOV 2024 TO 00 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 90 DEG E: SW-LY 15/25 KTS BEC CYCLONIC 30/35 KTS AT 82.2 DEG E AND 11.2 DEG N.
2) REST AREA: S/SE-LY 10/20 KTS.

II) WAVE HEIGHT: 6.0-9.0 M.
III) WEATHER: WIDESPREAD RA/TS.
IV) VISIBILITY: VERY POOR.

BOB A3-FORECAST VALID FROM 00 UTC OF 30TH NOV 2024 TO 00 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: SW/S-LY 15/25 KTS BEC S/SE-LY 10/20 KTS TO THE N OF 5 DEG N.
II) WAVE HEIGHT: 4.0-6.0 M.
III) WEATHER: WIDESPREAD RA/TS.
IV) VISIBILITY: VERY POOR.

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

BOB A4-FORECAST VALID FROM 12 UTC OF 29TH NOV 2024 TO 00 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) S OF 20 DEG N: SE-LY 15/25 KTS BEC CYCLONIC. 30/35 KTS AT 82.2 DEG E AND 11.2 DEG N.
2) REST AREA: E/NE-LY 05/15 KTS.

II) WAVE HEIGHT: 6.0-9.0 M.
III) WEATHER: WIDESPREAD RA/TS.
IV) VISIBILITY: VERY POOR.

BOB A4-FORECAST VALID FROM 00 UTC OF 30TH NOV 2024 TO 00 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: 1) S OF 20 DEG N: E/SE-LY 10/20 KTS BEC SE-LY 15/25 KTS TO THE S OF 15 DEG N AND W OF 86 DEG E.
2) REST AREA: E/NE-LY 05/15 KTS.

II) WAVE HEIGHT: 4.0-6.0 M.
III) WEATHER: WIDESPREAD RA/TS.
IV) VISIBILITY: VERY POOR.

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 29/1700 UTC.

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TOO: 29/1730



OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINTY OF CYCLONIC STORM "FENGAL" OVER SOUTHWEST BAY OF BENGAL BASED ON 0900 UTC (1430 HRS. IST) OF 29TH NOVEMBER, 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				
Date and Time (UTC)	TRINCOMALEE	BATTICALOA	NAGAPPATTINAM	PUDUCHERRY	CHENNAI/MINAMBAKKAM
29.11.24/0900	310, NNE	390, N	260, E	270, ESE	300, SE
30.11.24/0600	380, NNW	490, NNW	140, NNE	50, E	120, S



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "FENGAL" OVER SOUTHWEST BAY OF BENGAL BASED ON 0000 UTC (1420 HRS IST) OF 20TH NOVEMBER



DATE/TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILE SHOUR - 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