

GLOBAL MARITIME 292230 IST
DATE/TIME OF ISSUE: 29-11-2024/1700 UTC
GMDSS BULLETIN II 291800
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 18 UTC OF 29TH NOVEMBER 2024 TO 12 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 CYCLONIC STORM "FENGAL" [PRONOUNCED AS FEINJAL] OVER SOUTHWEST BAY OF BENGAL MOVED NORTHWESTWARDS WITH A SPEED OF 15 KMPH DURING PAST 6 HOURS AND LAY CENTRED AT 1730 HOURS IST OF TODAY, THE 29TH NOVEMBER 2024 OVER THE SAME REGION NEAR LATITUDE 11.5°N AND LONGITUDE 81.9°E, ABOUT 330 KM NORTH-NORTHEAST OF TRINCOMALEE, 240 KM EAST-NORTHEAST OF NAGAPPATTINAM, 230 KM EAST-SOUTHEAST OF PUDUCHERRY AND 250 KM SOUTHEAST OF CHENNAI.

IT IS LIKELY TO MOVE WEST-NORTHWESTWARDS AND CROSS NORTH TAMIL NADU-PUDUCHERRY COASTS BETWEEN KARAİKAL 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 |
|---------------------|---------------------------------|--|-------------------------------------|
| 29.11.24/1730 | 11.5/81.9 | 60-70 gusting to 80 | Cyclonic Storm |
| 29.11.24/2330 | 11.7/81.4 | 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 |
| 30.11.24/1730 | 12.0/79.5 | 55-65 gusting to 75 | Deep Depression |
| 01.12.24/0530 | 12.1/78.0 | 45-55 gusting to 65 | 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 1200 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 18 UTC OF 29TH NOV 2024 TO 12 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 60 DEG E: NE/N-LY 10/20 KTS BEC NW-LY 10/15 KTS TO THE S OF 4 DEG N.

2) REST AREA: N/NW-LY 10/15 KTS BEC NW/W-LY 15/20 KTS TO THE E OF 70 DEG E.

II) WAVE HEIGHT: 1.5-3.0 M.

III) WEATHER: 1) E OF 67DEG E: SCATTERED RA/TS.

2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 67DEG E: MODERATE.

2) REST AREA: GOOD.

ARB A1-FORECAST VALID FROM 12 UTC OF 30TH NOV 2024 TO 12 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: 1) W OF 60 DEG E: NE/N-LY 10/20 KTS BEC NW-LY 10/15 KTS TO THE S OF 5 DEG N.

2) REST AREA: N/NW-LY 10/20 KTS BEC W/SW-LY 15/25 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: 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 18 UTC OF 29TH NOV 2024 TO 12 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: NE/N-LY 10/20 KTS.

II) WAVE HEIGHT: 0.5-2.0 M.

III) WEATHER: FAIR.

IV) VISIBILITY: GOOD.

ARB A2-FORECAST VALID FROM 12 UTC OF 30TH NOV 2024 TO 12 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: NE/N-LY 10/20 KTS.

II) WAVE HEIGHT: 0.5-2.0 M.

III) WEATHER: 1) E OF 74 DEG E: ISOLATED RA/TS.

2) REST AREA: FAIR.

IV) VISIBILITY: 1) E OF 74 DEG E: GOOD.

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

I) WIND DIRECTION AND SPEED: SW-LY 15/20 KTS BEC CYCLONIC 35/40 KTS AT 81.0 DEG E AND 11.8 DEG N.

II) WAVE HEIGHT: 6.0-9.0 M.

III) WEATHER: WIDESPREAD RA/TS.

IV) VISIBILITY: VERY POOR.

BOB A3-FORECAST VALID FROM 12 UTC OF 30TH NOV 2024 TO 12 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: SW/S-LY 20/25 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 18 UTC OF 29TH NOV 2024 TO 12 UTC OF 30TH NOV 2024.

I) WIND DIRECTION AND SPEED: 1) S OF 20 DEG N: SE-LY 15/20 KTS BEC CYCLONIC. 35/40 KTS AT 81.0 DEG E AND 11.8 DEG N.

2) REST AREA: E/NE-LY 10/15 KTS.

II) WAVE HEIGHT: 6.0-9.0 M.

III) WEATHER: WIDESPREAD RA/TS.

IV) VISIBILITY: VERY POOR.

BOB A4-FORECAST VALID FROM 12 UTC OF 30TH NOV 2024 TO 12 UTC OF 01ST DECEMBER 2024.

I) WIND DIRECTION AND SPEED: 1) S OF 20 DEG N: E/SE-LY 20/25 KTS.

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.

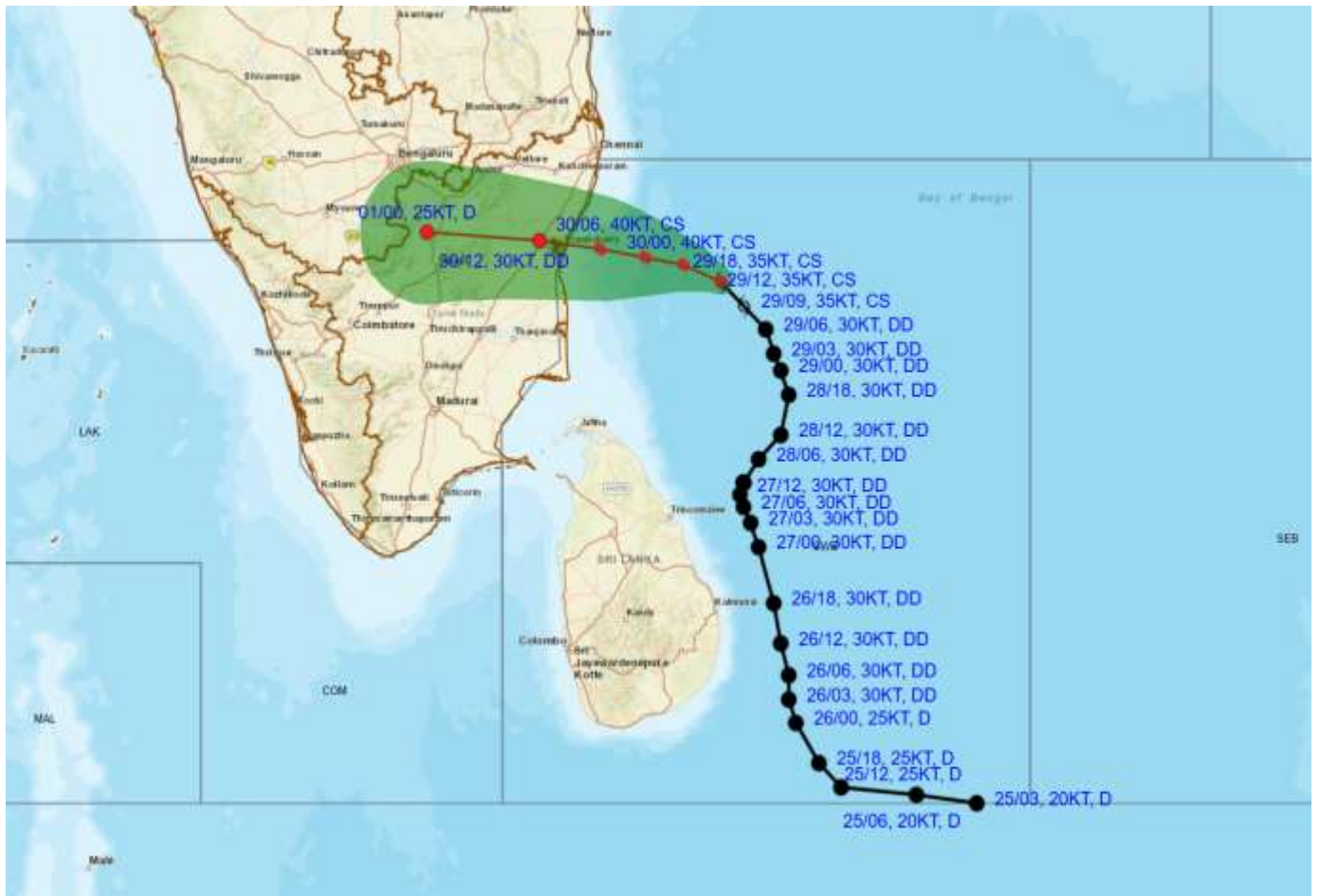
NEXT FORECAST WILL BE ISSUED AT 30/0800 UTC.

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TOO: 29/2230.



OBSERVED AND FORECAST TRACK ALONG WITH CONE OF UNCERTAINTY OF CYCLONIC STORM "FENGAL" OVER SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC (1730 HRS. IST) OF 29TH NOVEMBER, 2024



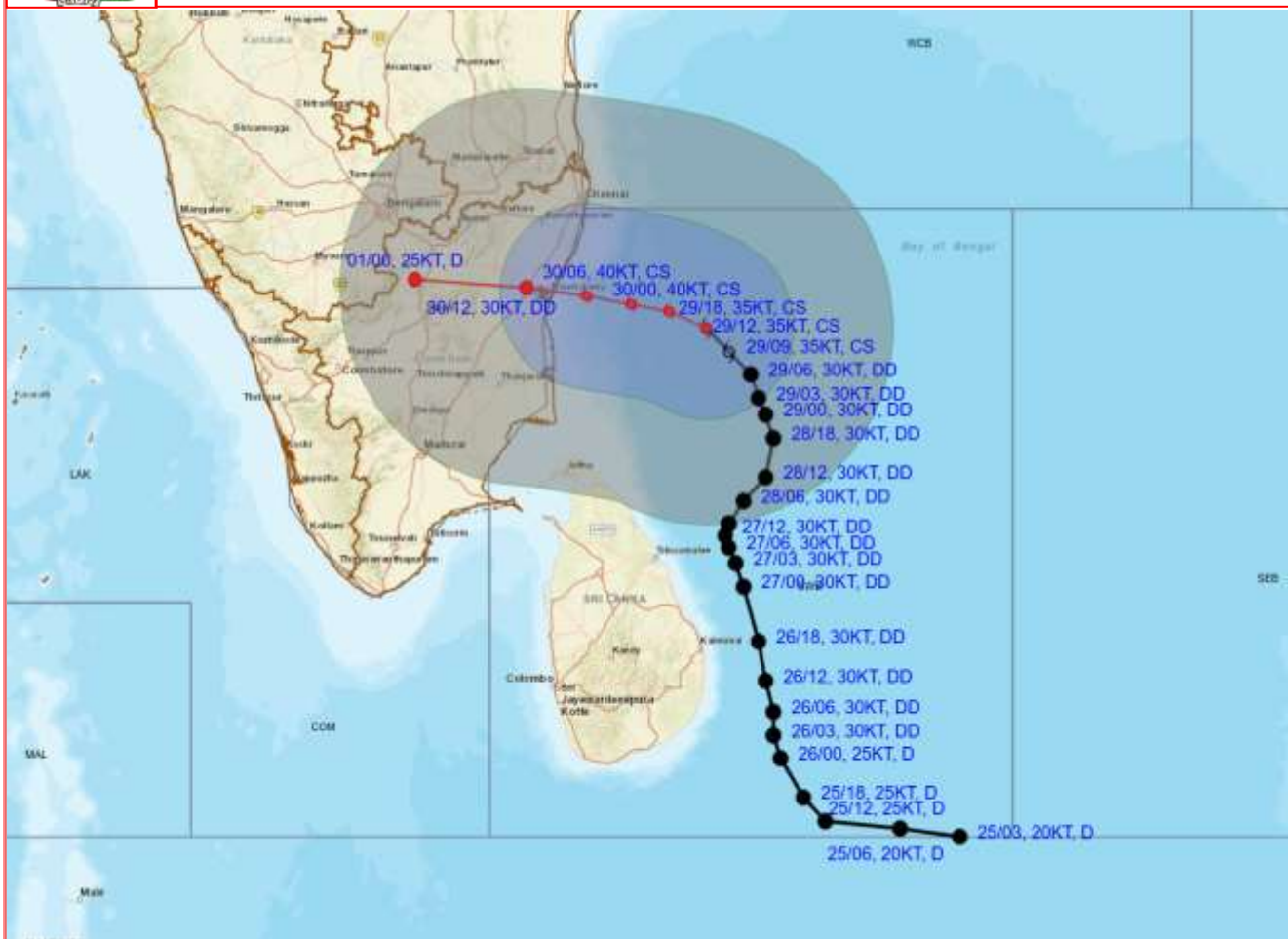
DATE/TIME : IN UTC
 IST : UTC + 0530
 KT : NAUTICAL MILE S/HOUR = 1.85 KM/HOUR
 LPA : LOW PRESSURE AREA
 WML : WELL MARKED LOW PRESSURE AREA
 D : DEPRESSION (17-27 KT)
 DD : DEEP DEPRESSION (28-33 KT)
 CS : CYCLONIC STORM (34-47 KT)
 SCS : SEVERE CYCLONIC STORM (48-63 KT)
 VSCS : VERY SEVERE CYCLONIC 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 |
| 29.11.24/1200 | 330, NNE | 420, N | 240, ENE | 230, ESE | 250, SE |
| 30.11.24/1200 | 430, NNW | 530, NNW | 140, NNW | 30, W | 130, SW |



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM "FENGAL" OVER SOUTHWEST BAY OF BENGAL BASED ON 1200 UTC (1730 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
 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 |