



India Meteorological Department
(Ministry of Earth Sciences)

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Sub: Depression over Lakshadweep area: Pre-Cyclone watch for south Gujarat & Diu coasts

The well marked low pressure area over Lakshadweep area & adjoining southeast Arabian Sea moved east-northeastwards, concentrated into a **Depression** and lay centred at 0830 hours IST of today, the 14th May, 2021 over Lakshadweep area near latitude 10.5°N and longitude 72.3°E, about 80 km south-southwest of Amini Divi, 360 km west-southwest of Kannur (Kerala), 1170 km south-southeast of Veraval (Gujarat).

It is very likely to intensify into a Deep Depression during next 12 hours and into a Cyclonic Storm during subsequent 12 hours. It is very likely to intensify further. It is very likely to move initially north-northeastwards till today evening. It would then move north-northwestwards and reach near Gujarat coast by 18th May morning.

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
14.05.21/0830	10.5/72.3	45-55 gusting to 65	Depression
14.05.21/1730	11.8/73.1	55-65 gusting to 75	Deep Depression
15.05.21/0530	13.1/73.1	70-80 gusting to 90	Cyclonic Storm
15.05.21/1730	14.7/72.6	90-100 gusting to 110	Severe Cyclonic Storm
16.05.21/0530	16.1/72.2	110-120 gusting to 135	Severe Cyclonic Storm
16.05.21/1730	17.5/71.6	130-140 gusting to 155	Very Severe Cyclonic Storm
17.05.21/0530	19.1/70.8	150-160 gusting to 175	Very Severe Cyclonic Storm

Spatial rainfall distribution: Isolated: <25%, A few: 26-50%, Many: 51-75%, Most: 76-100%

Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

Warnings:

(i) Rainfall:

- **Lakshadweep Islands:** Light to moderate rainfall at most places with heavy to very heavy falls at a few places with extremely heavy falls (≥ 20 cm) at isolated places very likely on 14th May, heavy to very heavy falls at isolated places on 15th May and heavy falls at isolated places on 16th May.
- **Kerala:** Light to moderate rainfall at most places with heavy to very heavy falls at a few places and extremely heavy falls (≥ 20 cm) at isolated places on 14th, heavy to very heavy falls at a few places 15th and heavy to very heavy falls at isolated places on 16th & 17th May.
- **Tamil Nadu (Ghat districts):** Light to moderate rainfall at many places with heavy to very heavy falls & extremely heavy falls at isolated places very likely on 14th and heavy to very heavy falls at isolated places on 15th May.
- **Karnataka (coastal & adjoining Ghat districts):** Light to moderate rainfall at most places with heavy to very heavy falls at a few places with extremely heavy falls at isolated places on 14th & 15th and heavy falls at isolated places on 16th.
- **Konkan & Goa:** Light to moderate rainfall at a few places with heavy falls at isolated places very likely over Goa on 14th, at most places with heavy to very heavy falls at a few places over south Konkan & Goa and heavy to very heavy falls at isolated places over north Konkan on 15th and heavy falls at isolated places on 16th.
- **Gujarat:** Light to moderate rainfall at many places with heavy falls at isolated places very likely over coastal districts of Suarashtra on 16th, at most places with heavy to very heavy falls at a few places on 17th and with heavy to very heavy falls at a few places extremely heavy falls (≥ 20 cm) at isolated places over Saurashtra & Kutch on 18th.
- **Southwest Rajasthan:** Light to moderate rainfall at many places with heavy falls at isolated places very likely on 17th & 18th May.

(ii) Wind warning

- Squally weather with wind speed reaching 45-55 kmph gusting to 65 kmph is very likely over southeast Arabian Sea and adjoining Lakshadweep – Maldives area and equatorial Indian Ocean on 14th May. It is very likely to increase gradually becoming 50- 60 kmph gusting to 70 kmph over the same region from 14th morning.
- It is likely to increase gradually becoming Gale wind speed reaching 70 – 80 kmph gusting to 90 kmph over east-central Arabian Sea and adjoining southeast Arabian Sea and Lakshadweep area from 15th May morning.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely along & off Kerala coast on 14th May and 50-60 kmph gusting to 70 kmph along & off Kerala - Karnataka coasts on 15th May.
- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely along & off south Maharashtra & Goa coasts on 15th and Gale winds speed reaching 60-70 kmph gusting to 80 kmph along & off south Maharashtra –Goa coasts on 16th May.

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Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.

- Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely over northeast Arabian Sea and along & off south Gujarat & Daman and Diu coasts on 17th morning and gradually increase becoming Gale winds speed reaching 90-100 kmph gusting to 115 kmph over northeast Arabian Sea along & off Gujarat coast from the early hours of 18th May and increase gradually thereafter till 18th morning.

(iii) Sea condition

- Sea conditions over southeast Arabian Sea and adjoining Lakshadweep - Maldives area & equatorial Indian Ocean will be rough to very rough on 14th May.
- Sea condition over eastcentral Arabian Sea will be High to very High on 15th & 16th May and over northeast Arabian Sea from 17th May.
- Sea conditions will be rough to very rough over Comorin area and along & off Kerala coast on 14th & 15th, very rough to High over east central Arabian Sea along & off Karnataka coast on 15th May and Maharashtra – Goa coasts on 15th & 16th May. It is very likely to be very rough to High over northeast Arabian Sea along & off south Gujarat coast from 17th May morning and very high to Phenomenal from 18th morning.

(iv) Tidal wave Warning:

- Tidal wave of about 1 meter height above the astronomical tide is very likely to inundate low lying areas of Lakshadweep Islands on 15th & 16th May.

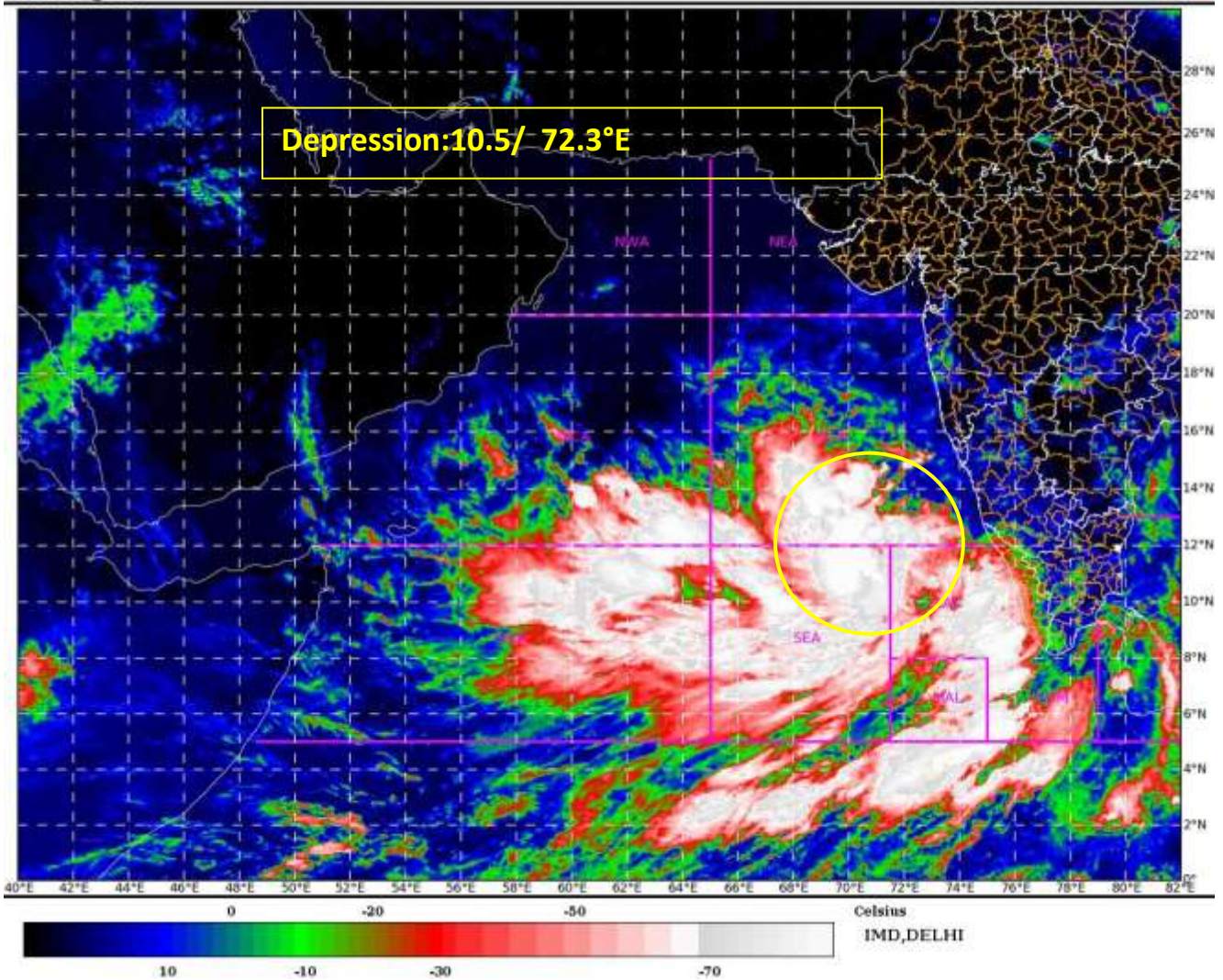
(v) Fishermen Warning

- The fishermen are advised not to venture into southeast Arabian Sea, Lakshadweep – Maldives areas, east central Arabian Sea along & off Karnataka coast, eastcentral Arabian Sea and along & off Maharashtra – Goa coasts and into eastcentral & adjoining northeast Arabian Sea along & off Gujarat coast till 18th May.
- Those who are out at Sea over north & adjoining eastcentral Arabian Sea are advised to return to the coast.

The next bulletin will be issued at 1430 hrs IST of today, the 14th May, 2021.

(Sunitha Devi. S)
Scientist-F, RSMC, New Delhi

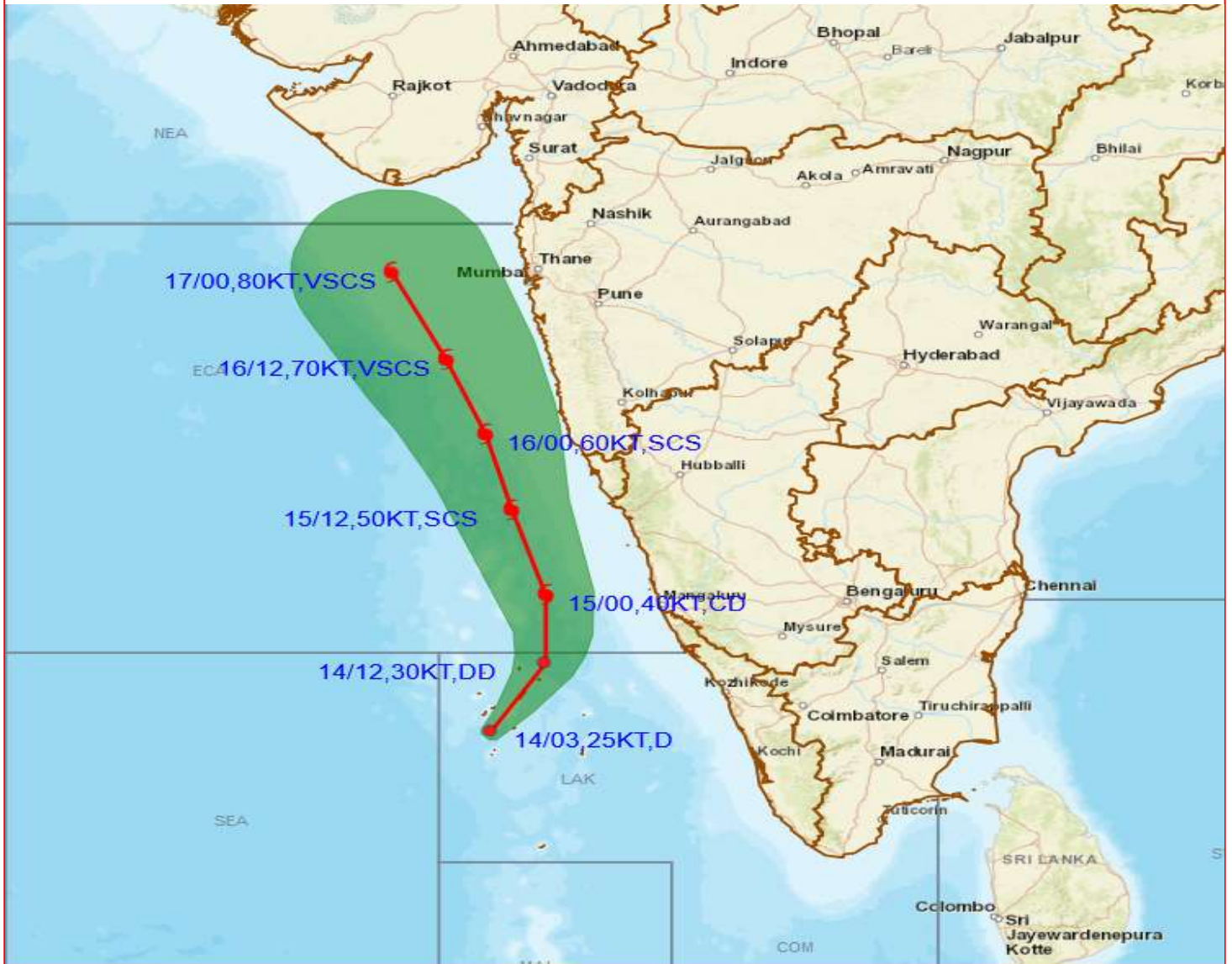
Copy to: ACWC Chennai/ ACWC Mumbai/ MC Goa/ MC Bengaluru/ CWC Ahmedabad/ Thiruvananthapuram.



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OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINTY OF DEPRESSION LAKSHADWEEP BASED ON 0300 UTC OF 14TH MAY, 2021

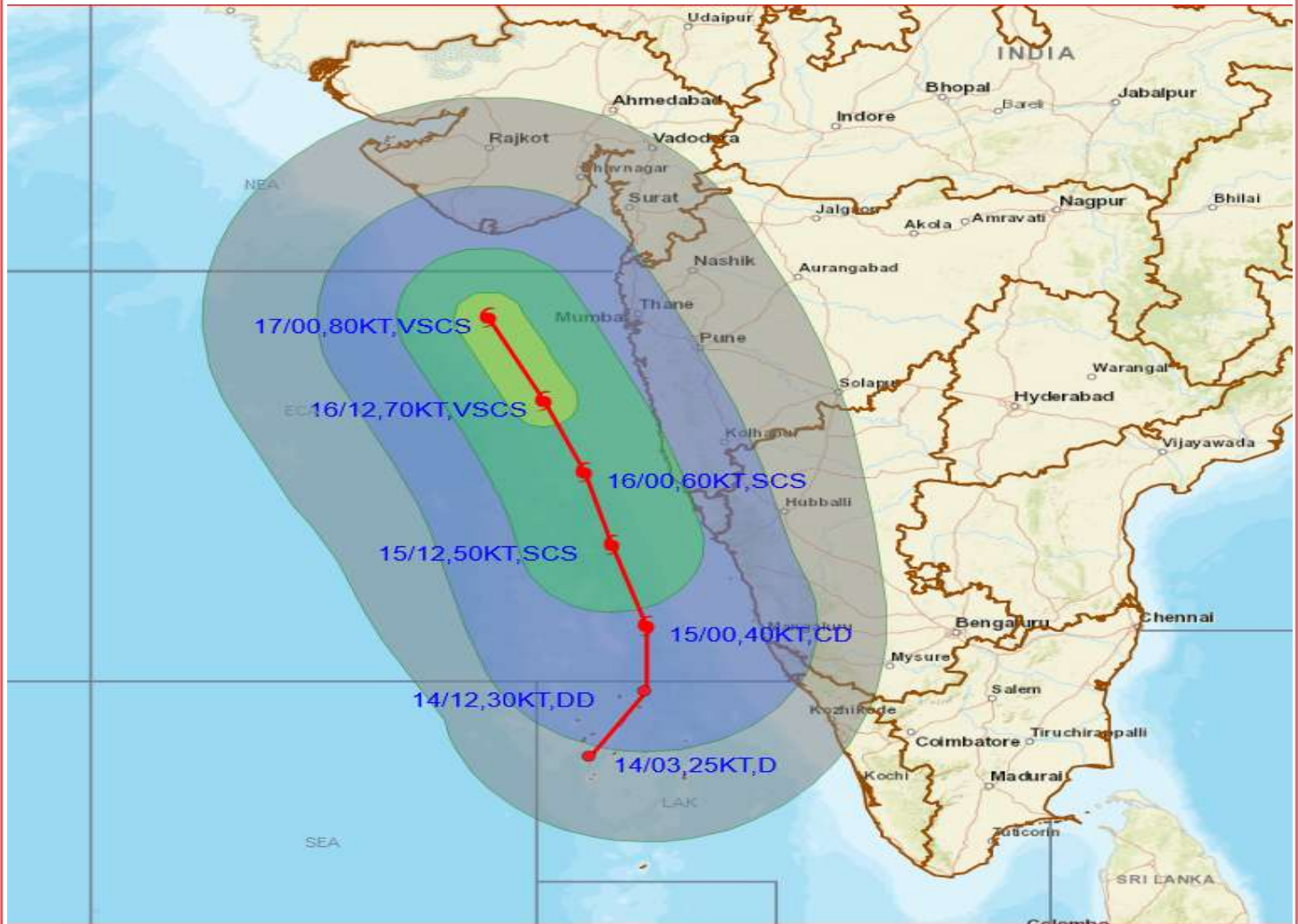


<p>DATE/TIME IN UTC IST=UTC + 0530 L: LOW PRESSURE AREA WML: WELL MARKED LOW PRESSURE AREA D: DEPRESSION (17-27 KT) DD: DEEP DEPRESSION (28-33 KT) CS: CYCLONIC STORM (34-47 KT) SCS: SEVERE CYCLONIC STORM (48-63KT) VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT) ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT) SuCS: SUPER CYCLONIC STORM (≥ 120 KT)</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">●</td> <td>LESS THAN 34 KT</td> </tr> <tr> <td style="text-align: center;">⊙</td> <td>34-47 KT</td> </tr> <tr> <td style="text-align: center;">⊙</td> <td>≥ 48 KT</td> </tr> <tr> <td style="text-align: center;">—</td> <td>OBSERVED TRACK</td> </tr> <tr> <td style="text-align: center;">—</td> <td>FORECAST TRACK</td> </tr> <tr> <td style="text-align: center;">▲</td> <td>CONE OF UNCERTAINTY</td> </tr> </table>	●	LESS THAN 34 KT	⊙	34-47 KT	⊙	≥ 48 KT	—	OBSERVED TRACK	—	FORECAST TRACK	▲	CONE OF UNCERTAINTY
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 Rainfall amount (mm): Heavy rain: 64.5 – 115.5, Very heavy rain: 115.6 – 204.4, Extremely heavy rain: 204.5 or more.



OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF DEPRESSION OVER LAKSHADWEEP BASED ON 0300 UTC OF 14TH MAY, 2021



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)

SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

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

SuCS: SUPER CYCLONIC STORM (\geq 120 KT)

● LESS THAN 34 KT

○ 34-47 KT

⦿ \geq 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)

— \geq 64 KT (\geq 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
\geq 64 (\geq 118)	Phenomenal	Total suspension of fishing operations

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