



REPUBLIC OF KENYA  
MINISTRY OF ENVIRONMENT & FORESTRY  
KENYA METEOROLOGICAL DEPARTMENT

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**REF.NO: KMD/FCST/11-2021/MARINE/48 Date: 22<sup>nd</sup> November, 2021**

**7-Day Marine Forecast for the KENYA coast and off shore areas  
along the Western Indian Ocean Region  
Validity: 23/11/2021-29/11/2021**

1. GENERAL OUTLOOK

**1.1 Wind Speed & Direction:**

Southeasterly to easterly winds expected over Kenya and Tanzania waters throughout the forecast period, while over Somali waters the winds are predominantly northeasterly with wind speeds ranging from 10 to 20 knots (5-10 m/s) throughout the forecasting period.

**1.2 Sig. Wave Height and Direction:**

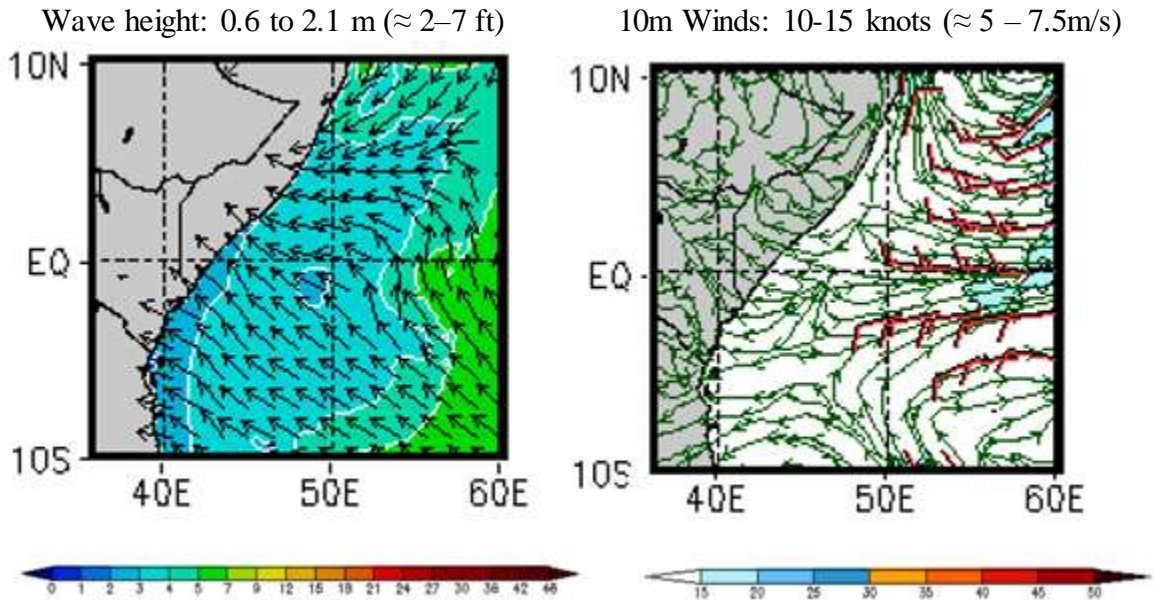
Slight to moderate waves of 0.6 – 2.1 m ( $\approx$  2 – 7ft) expected to be mainly Southeasterly to easterly over Kenyan, Tanzania and Somalia water during the forecasting period.

**1.3 Sea conditions**

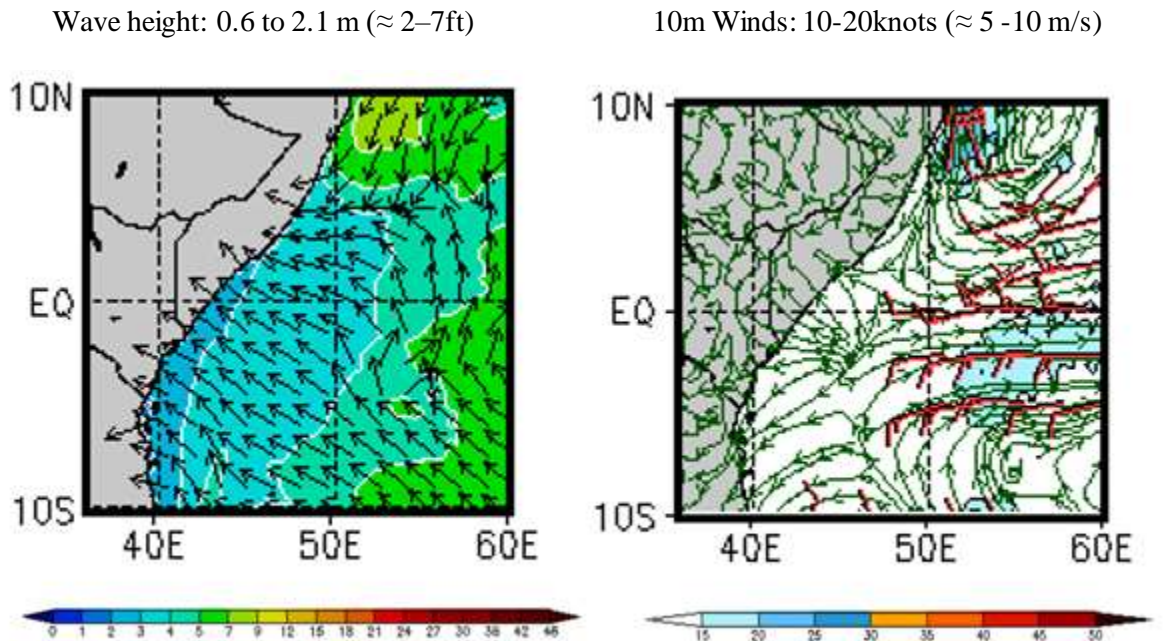
- Slight to Moderate sea condition with wave heights of 0.6-2.1m (2-7ft) is expected over the Tanzanian, Kenyan and Somali waters while
- Gently to Fresh breeze expected with speeds of 10-20 Knots ( $\approx$  5 – 10m/s) along the Tanzanian, Kenyan and Somalia waters throughout the forecasting period.

**2. WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 23<sup>rd</sup> NOVEMBER TO 29<sup>th</sup> NOVEMBER, 2021.**

**2.1 Tuesday 23<sup>rd</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**



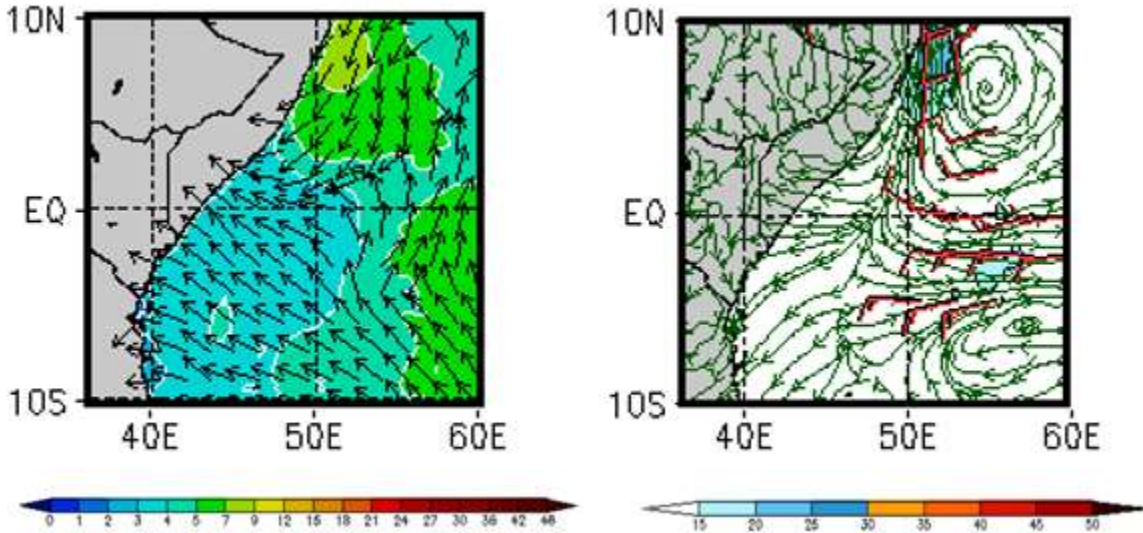
**2.2 Wednesday 24<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**



**2.3 Thursday 25<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 0.6 to 2.1 m ( $\approx$  2– 7ft)

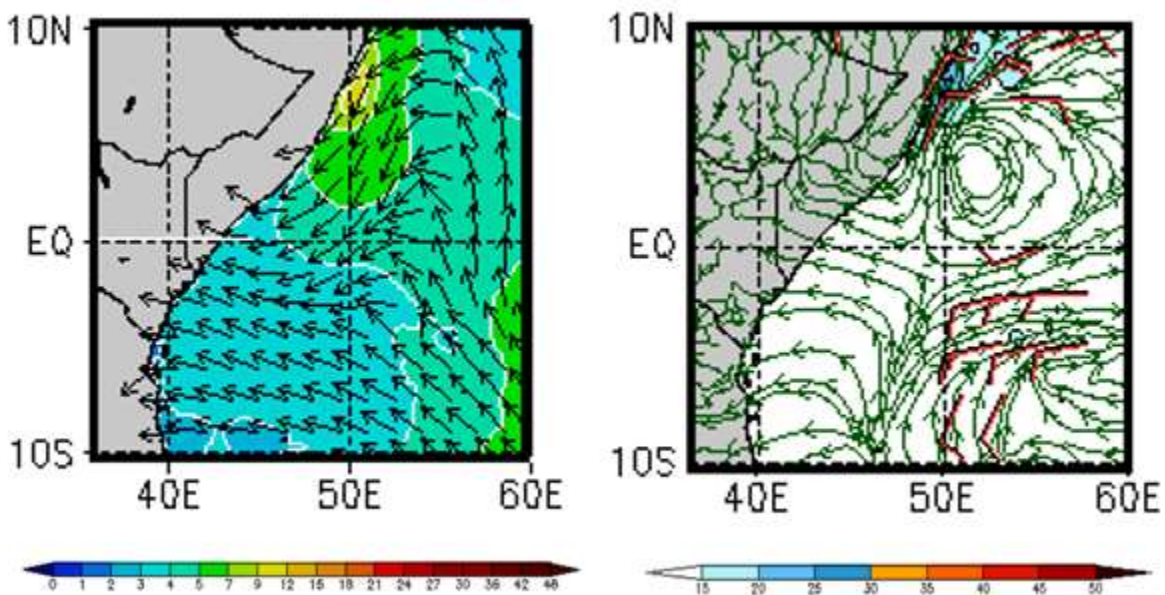
10m Winds: 10-20knots ( $\approx$  5 – 10m/s)



**2.4 Friday 26<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 0.6 to 2.1m ( $\approx$  2– 7ft)

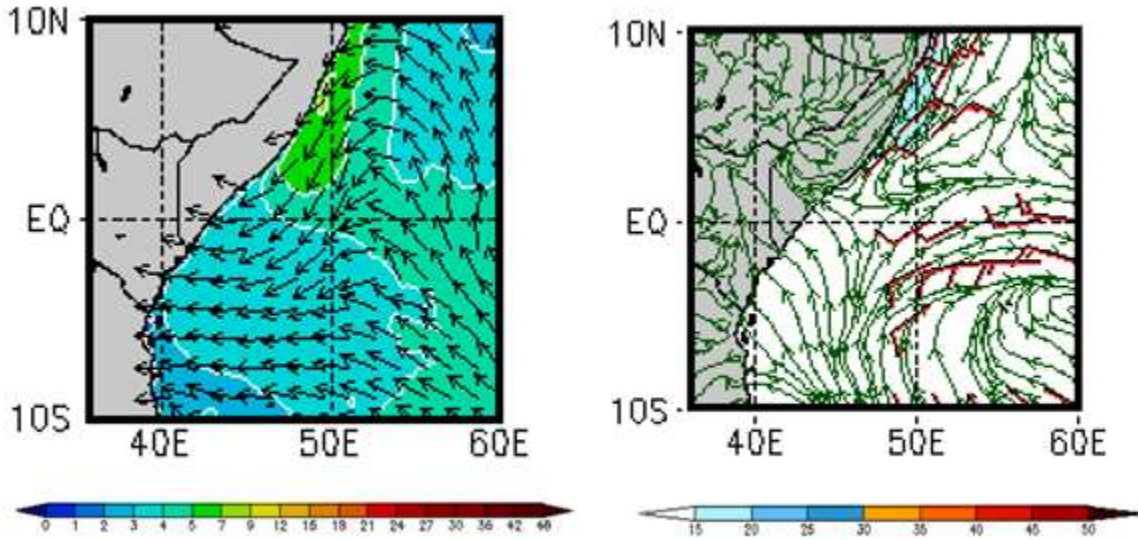
10m Winds: 10-20knots ( $\approx$  5 -10m/s)



**2.5 Saturday 27<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 0.6 to 2.1m ( $\approx 2-7$  ft)

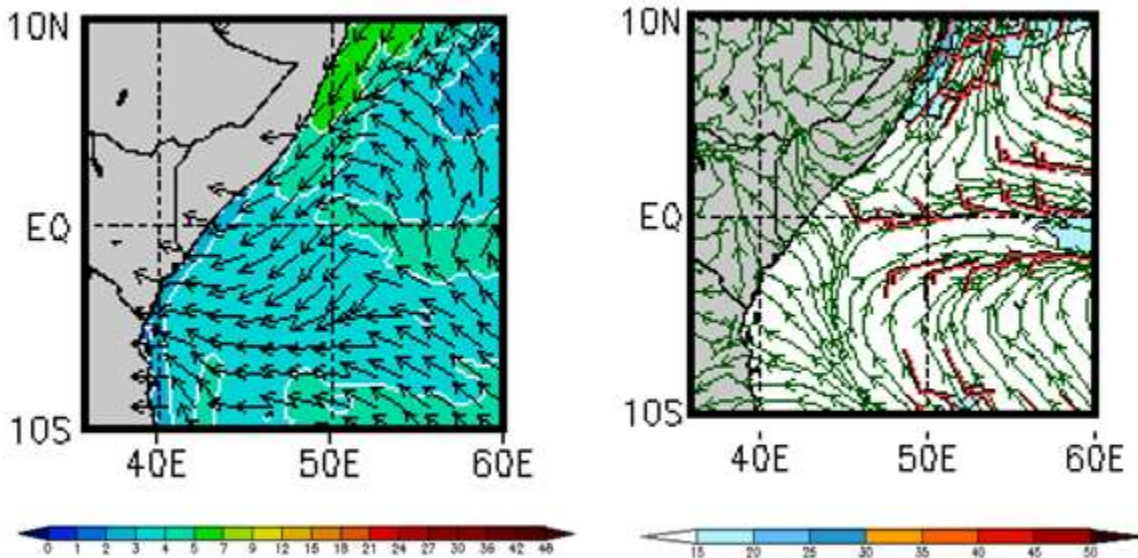
10m Winds: 10-15knots ( $\approx 5-7.5$ m/s)



**2.6 Sunday 28<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 0.6 to 2.1 m ( $\approx 2-7$ ft)

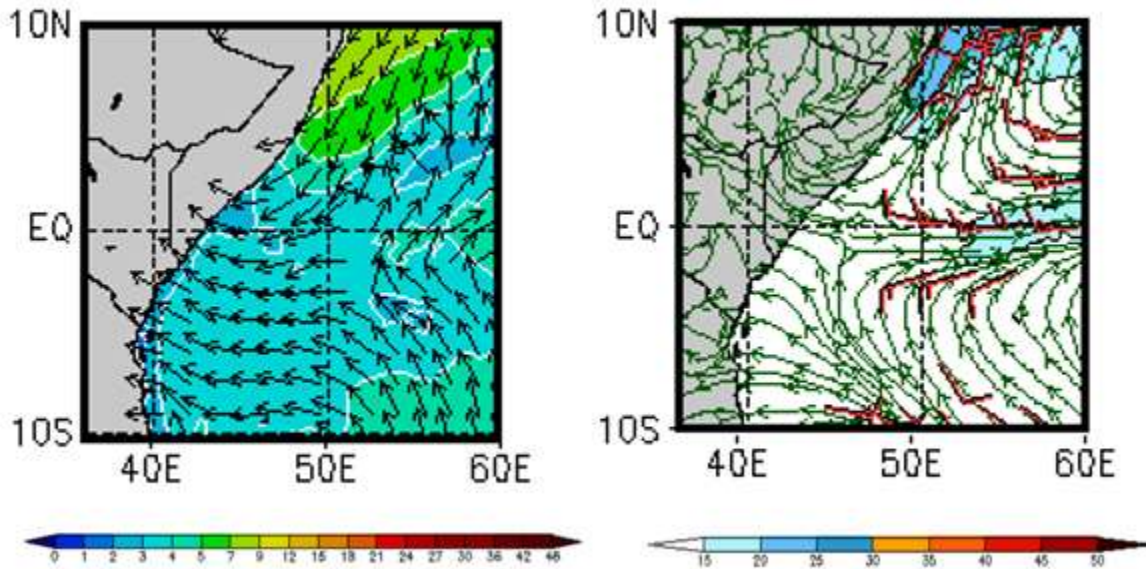
10m Winds: 10-20knots ( $\approx 5-10$ m/s)



**2.7 Monday 29<sup>th</sup> November, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 0.6 to 2.1m ( $\approx$  2- 7ft)

10m Winds: 10-20knots ( $\approx$  5 – 10m/s)



**3. Tide forecast valid 23<sup>rd</sup> November to 29<sup>th</sup> November, 2021**

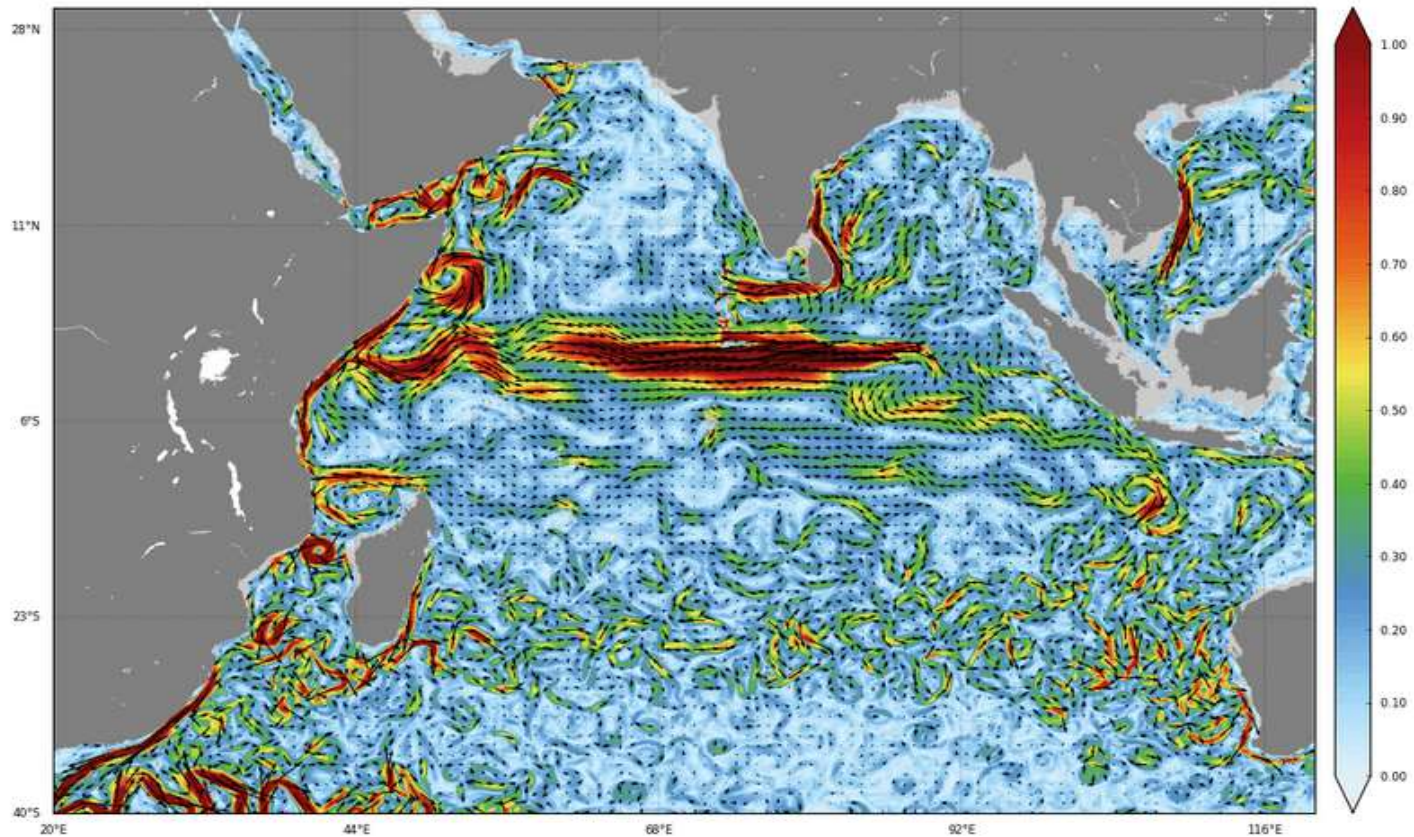
Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue, 23 <sup>rd</sup> November 2021	1 <sup>st</sup> Tide	05:55 AM	3.33 m	12:16 PM	0.54 m
	2 <sup>nd</sup> Tide	06:22 PM	2.71 m		
Wed, 24 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	06:27 AM	3.17 m	12:04 AM	0.82 m
	2 <sup>nd</sup> Tide	06:57 PM	2.56 m	12:50 PM	0.70 m
Thu, 25 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	07:02 AM	2.98 m	12:36 AM	1.00 m
	2 <sup>nd</sup> Tide	07:41 PM	2.41 m	01:29 PM	0.88 m
Fri, 26 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	07:45 AM	2.76 m	01:16 AM	1.19 m
	2 <sup>nd</sup> Tide	08:40 PM	2.29 m	02:20 PM	1.04 m

Sat 27 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	08:46 AM	2.55 m	02:15 AM	1.38 m
	2 <sup>nd</sup> Tide	10:04 PM	2.27 m	03:30 PM	1.16 m
Sun, 28 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	10:15 AM	2.41 m	03:54 AM	1.48 m
	2 <sup>nd</sup> Tide	11:36 PM	2.42 m	04:58 PM	1.17 m
Mon, 29 <sup>th</sup> November 2021	1 <sup>st</sup> Tide	11:51 AM	2.43 m	05:46 AM	1.37 m
	2 <sup>nd</sup> Tide			06:12 PM	1.05 m

#### 4. 9days Ocean surface current forecast valid 21/11/2021 to 30/11/2021



Daily Global Physical Bulletin 1/12<sup>o</sup> (PSY4QV3R1)  
Date: 2021-11-30 (9-day forecast)  
Indian



Depth (m) : 34  
Time : 2021-11-21

Current (m/s)

Max: 2.19  
Min: 0.00  
Average: 0.25

## KEY ON SEA STATE

WAVE HEIGHT RANGE (Meters)	DESCRIPTION	IMPACT
0.6 – 1.0 m (≈ 1.8 – 3.0 ft)	Slight	Conditions suitable for Marine activities
1.0 – 1.9 m (≈ 3.0 – 5.7 ft)	Slight - Moderate	
2.0 – 2.9 m (≈ 6.0 – 8.7 ft)	Moderate-Rough	Caution on operating marine activities
3.0 – 4.0 m (≈ 9.0 – 12.0 ft)	Rough	Warning in place!!!! Warning in place and marine activities on hold
4.1 – 5.5 m (≈ 12.3 – 16.5 ft)	Very Rough	

## KEY ON SEA STATE

WIND	RANGE	DESCRIPTIONS	IMPACT
	< 1 – 7 Knots	Calm to Light breeze	1 – 6 knots, the Ocean is relatively calm with very little disturbance. Suitable for Marine operations
	7 – 21 Knots	Gentle breeze to Fresh breeze	7 – 17 knots, small boats are likely to be filled with water sprays and become unstable. Caution in carrying out marine activities
	22 – ≥34 Knots	Strong breeze to Extremely Strong breeze	More than 21 knots, the ocean state is very much disturbed and the prevailing conditions are dangerous for marine operations. Warning in place!!!!

*N.B: This forecast should be used in conjunction with the daily marine forecast issued by this Department.*

*In concurrence with outputs from relevant marine data platforms, acknowledgement is fully accorded to: ESSO- Indian National Centre for Ocean Information Services (INCOIS), mercator-ocean.fr, COPERNICUS Marine Environment Monitoring Service (CMEMS) and other related sources.*

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