



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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REF.NO: KMD/FCST/5-2021/MARINE/17

Date: 10th May, 2021

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 11/05/2021-17/05/2021**

1. GENERAL OUTLOOK

1.1 Wind Speed & Direction:

Mainly south easterly to south westerly winds expected in Kenyan, Somali and Tanzania waters with wind speed in the range of 5 to 30knots (2.5 – 15m/s) throughout the forecasting period.

1.2 Sig. Wave Height and Direction:

Moderate waves of 0.9 – 4.5 m (\approx 3 – 15ft) expected to be mainly South easterly turning to south westerly over Kenyan, Tanzania and Somali waters during the forecasting period.

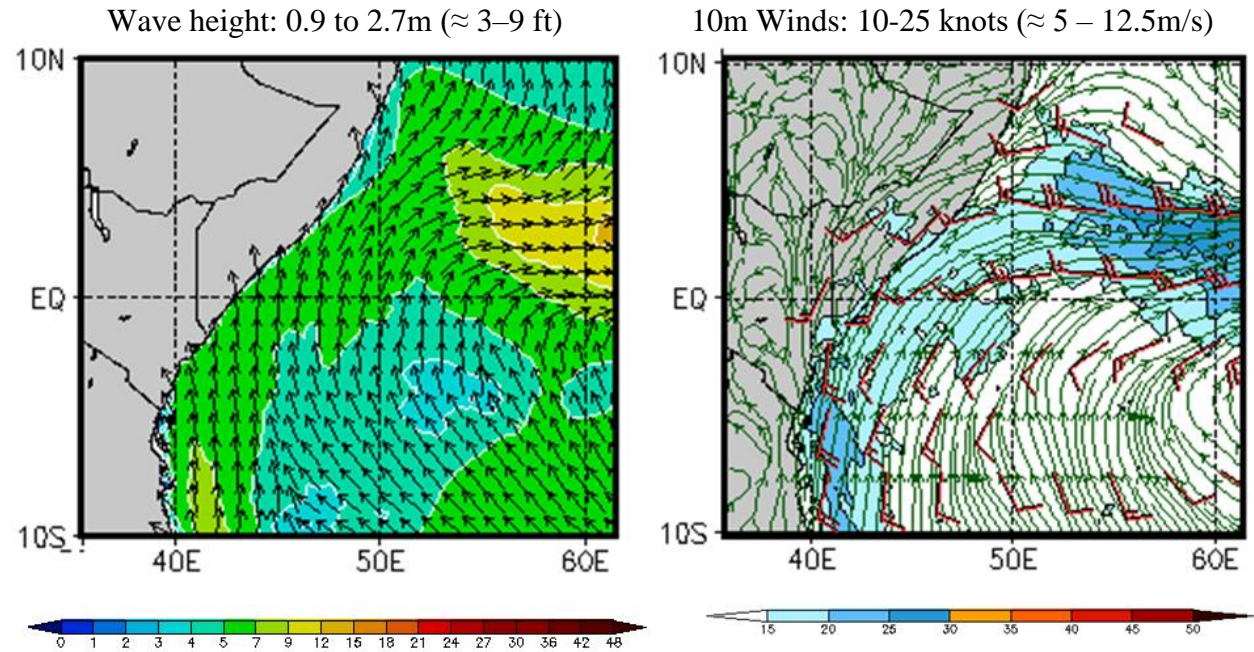
1.3 Sea conditions

Slight to moderate condition of wind speeds 05-20 Knots and wave of 0.9-2.1M expected near shore over Kenya, Tanzania and Somalia waters during the forecasting period.

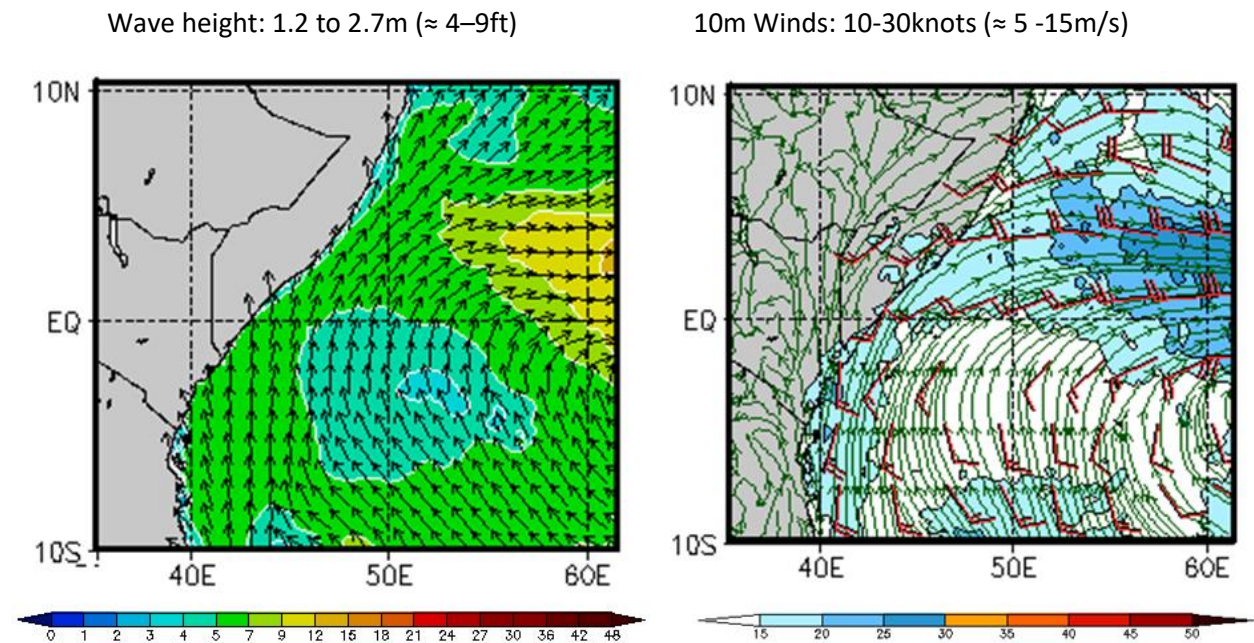
Moderate to very rough sea conditions expected at longitude 55E to 60 E as from Thursday 13th May 2021 to the end of the forecasting period, with strong winds speeds of more than 25 Knots and significant wave height more than 2.5 m.

2. WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 11TH MAY TO 17TH MAY, 2021.

2.1 Tuesday 11th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)



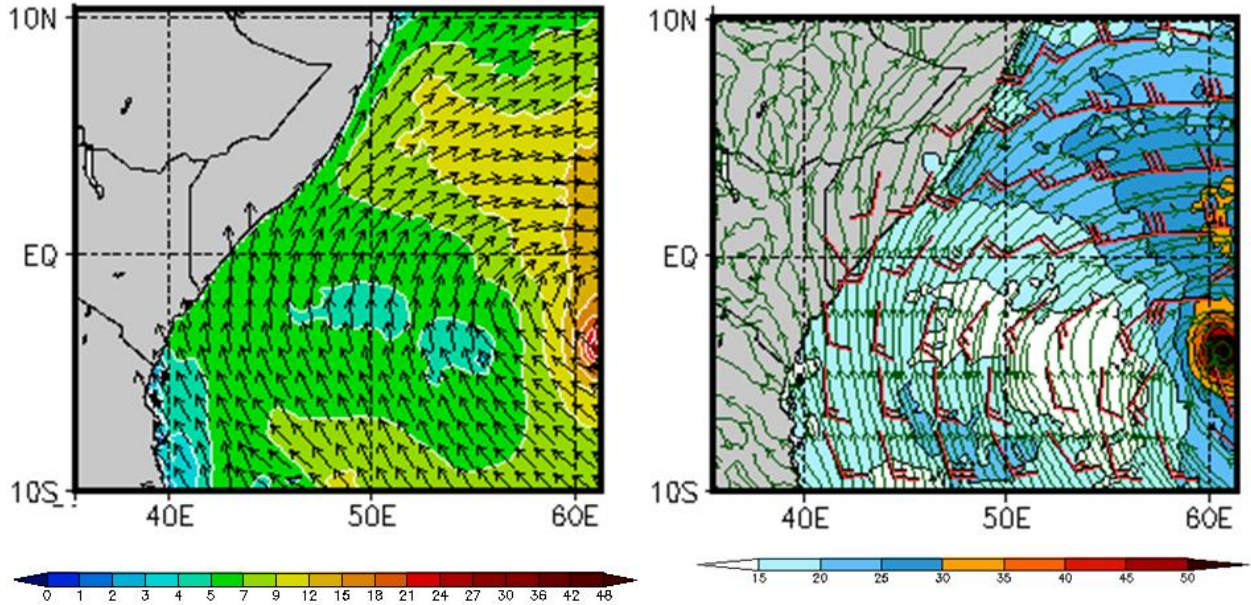
2.2 Wednesday 12th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)



2.3 Thursday 13th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6 m (\approx 4– 12 ft)

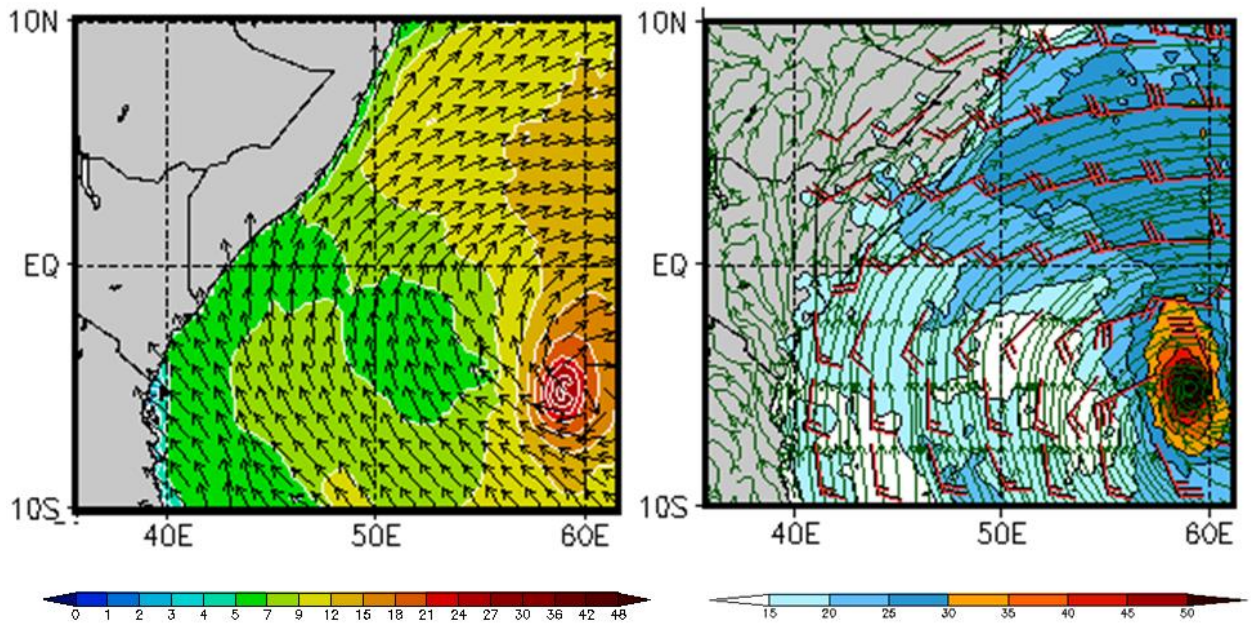
10m Winds: 10-30knots (\approx 5 – 15m/s)



2.4 Friday 14th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.8 to 4.5m (\approx 6 – 15 ft)

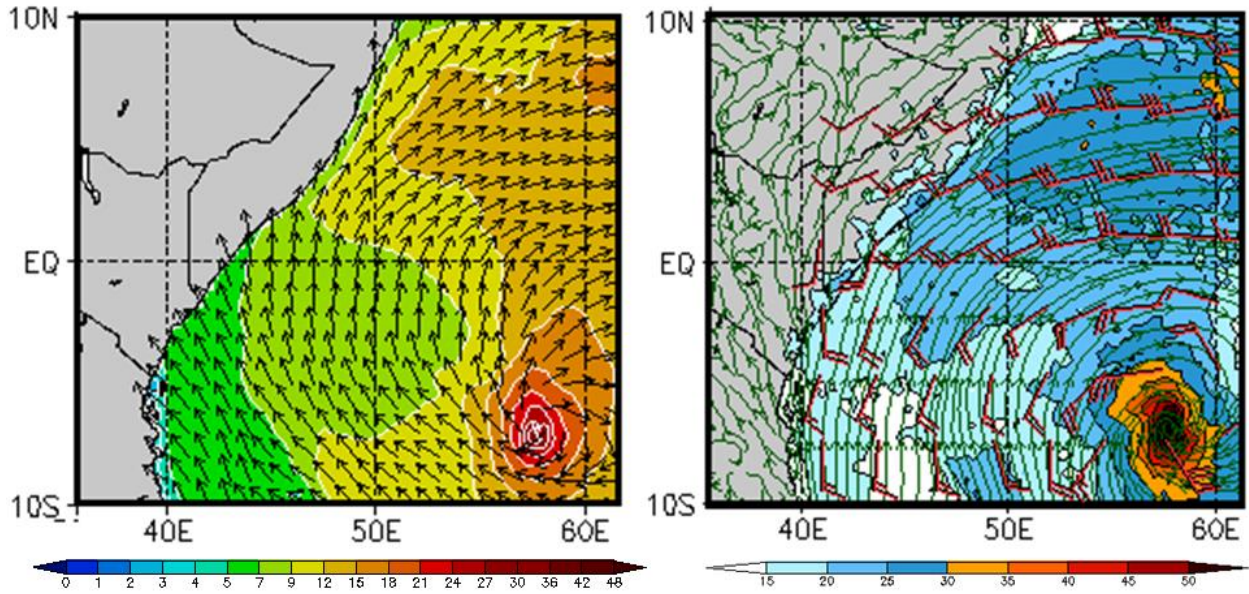
10m Winds: 10-30knots (\approx 5 -15m/s)



2.5 Saturday 15th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.5 to 4.5 m (\approx 5–15 ft)

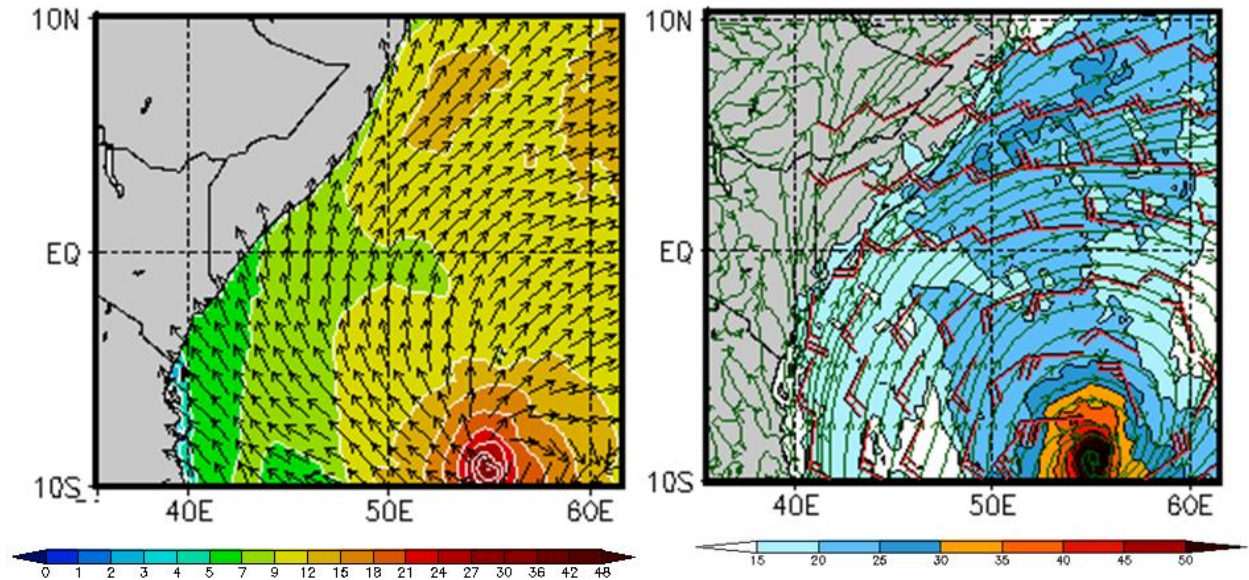
10m Winds: 10-30knots (\approx 5 -15m/s)



2.6 Sunday 16th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.5 to 4.5m (\approx 5–15ft)

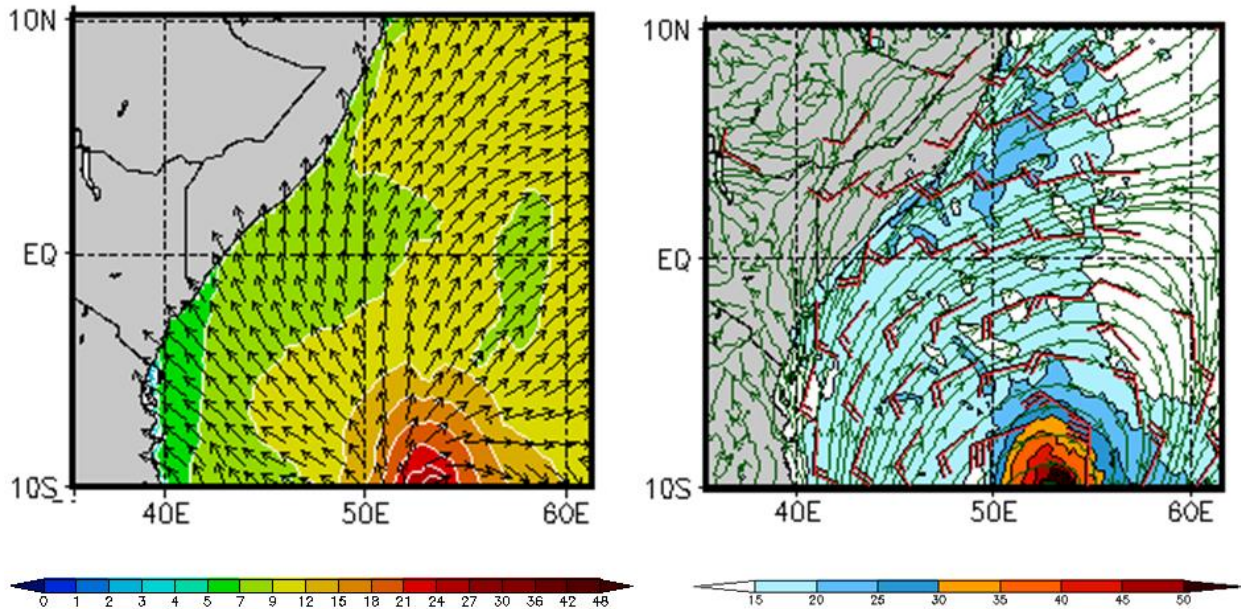
10m Winds: 10-30knots (\approx 5 -15m/s)



2.7 Monday 17th May, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.5 to 4.5m (\approx 5–15 ft)

10m Winds: 10-30knots (\approx 5 -15m/s)

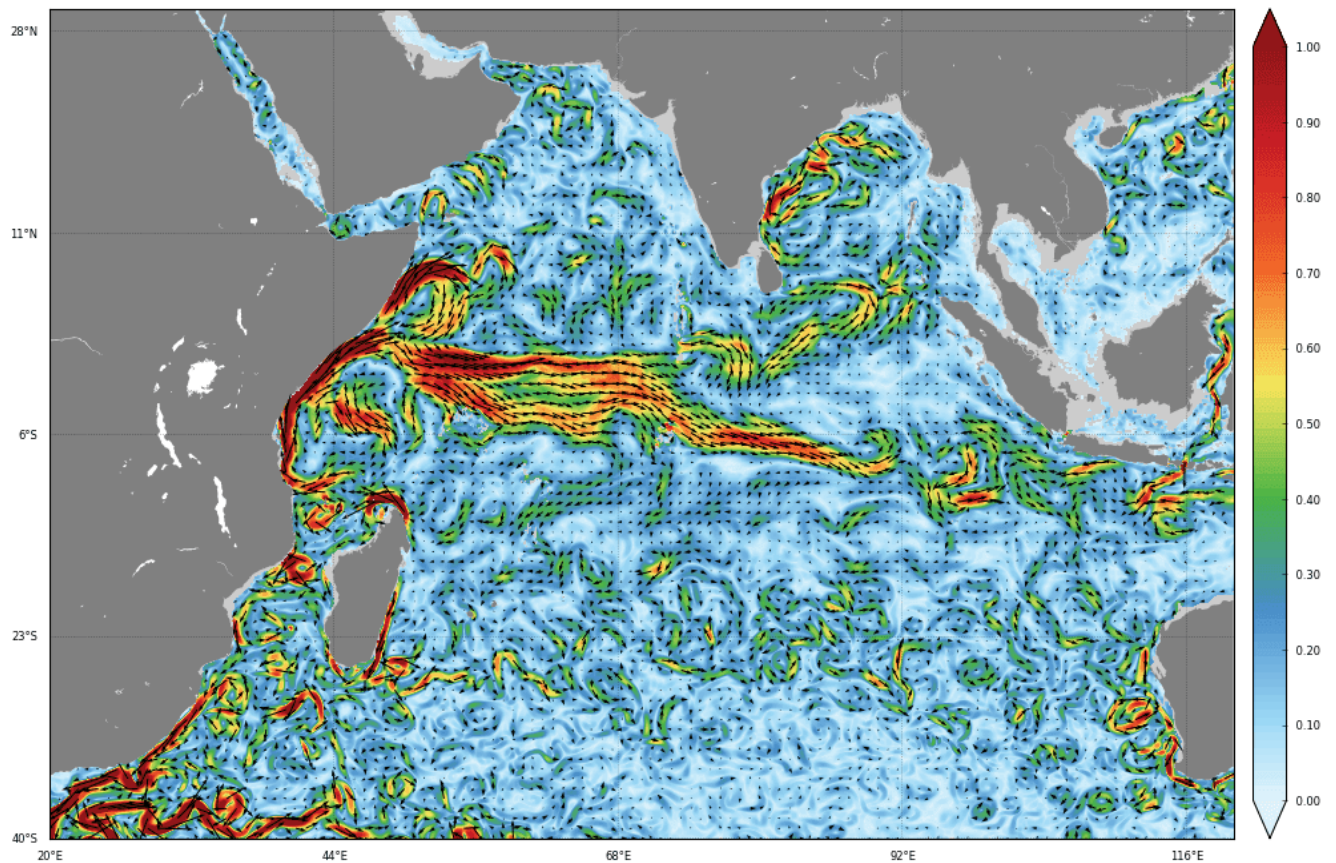


3. Tide forecast valid 11th May to 17th May, 2021

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue, 11 th May	1 st Tide	04:10 AM	3.05 m	10:00 AM	0.53 m
	2 nd Tide	04:18 PM	3.52 m	10:33 PM	0.37 m
Wed, 12 th May	1 st Tide	04:38 AM	3.07 m	10:27 AM	0.51 m
	2 nd Tide	04:45 PM	3.56 m	11:01 PM	0.35 m
Thu, 13 th May	1 st Tide	05:06 AM	3.05 m	10:54 AM	0.54 m
	2 nd Tide	05:12 PM	3.54 m	11:30 PM	0.38 m
Fri, 14 th May	1 st Tide	05:34 AM	2.98 m	11:21 AM	0.61 m
	2 nd Tide	05:41 PM	3.47 m		

Sat, 15 th May	1 st Tide	06:04 AM	2.88 m	12:00 AM	0.47 m
	2 nd Tide	06:10 PM	3.35 m	11:49 AM	0.72 m
Sun, 16 th May	1 st Tide	06:37 AM	2.74 m	12:31 AM	0.60 m
	2 nd Tide	06:43 PM	3.20 m	12:18 PM	0.87 m
Mon, 17 th May	1 st Tide	07:14 AM	2.58 m	01:06 AM	0.76 m
	2 nd Tide	07:21 PM	3.01 m	12:52 PM	1.04 m

4. 9days Ocean surface current forecast valid 10/05/2021 to 18/05/2021



KEY ON SEA STATE

WAVE HEIGHT RANGE (Metres)	DESCRIPTION	IMPACT
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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
SPEEDS	< 1 – 7 Knots	Calm to Light breeze	1 – 6 knots, the Ocean is relatively calm with very little disturbance. Suitable for Marine operations
SPEEDS	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.

**Stella Aura, MBS
DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT**