



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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REF.NO: KMD/FCST/7-2021/MARINE/31 Date: 26th July, 2021

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 27/07/2021-02/08/2021**

1. GENERAL OUTLOOK

1.1 Wind Speed & Direction:

Southeasterly winds expected over Kenya and Tanzania waters with wind speeds ranging from 10 to 20 knots (5-10 m/s) while over Somalia waters the winds are expected to be southwesterly with wind speed in the range of 10 to 25knots (5– 12.5m/s) throughout the forecasting period.

1.2 Sig. Wave Height and Direction:

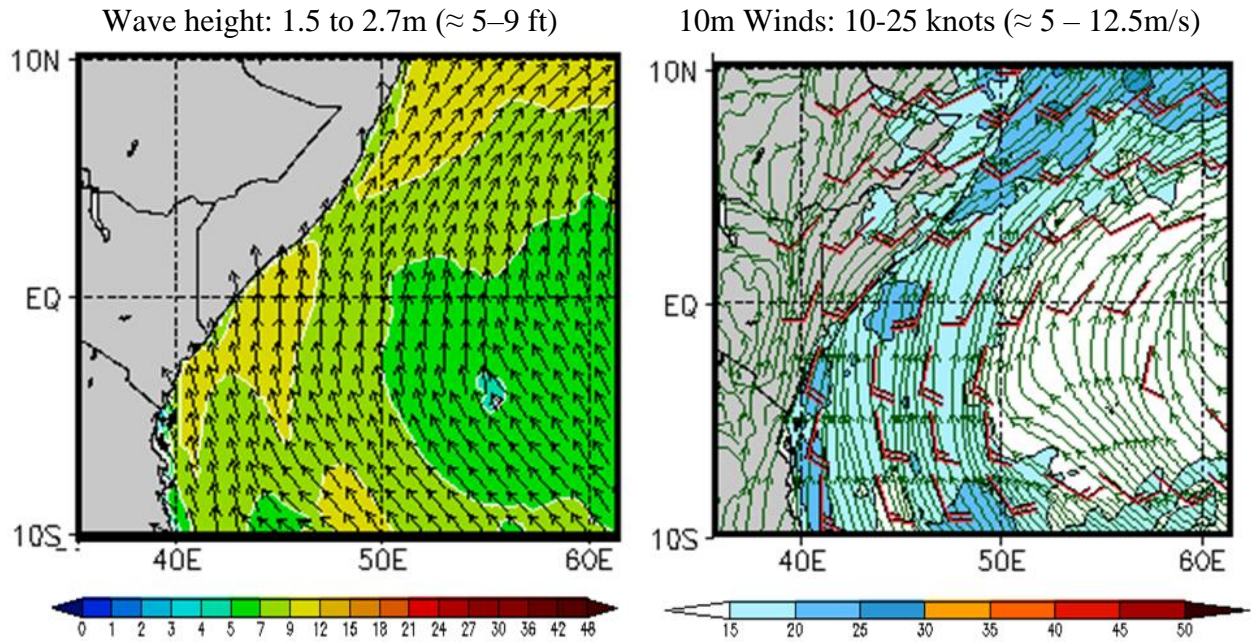
Moderate to high waves of 1.5 – 2.7 m (\approx 5 – 9ft) expected to be mainly south easterly over Kenyan and Tanzania turning to southwesterly over Somali waters (during the forecasting period).

1.3 Sea conditions

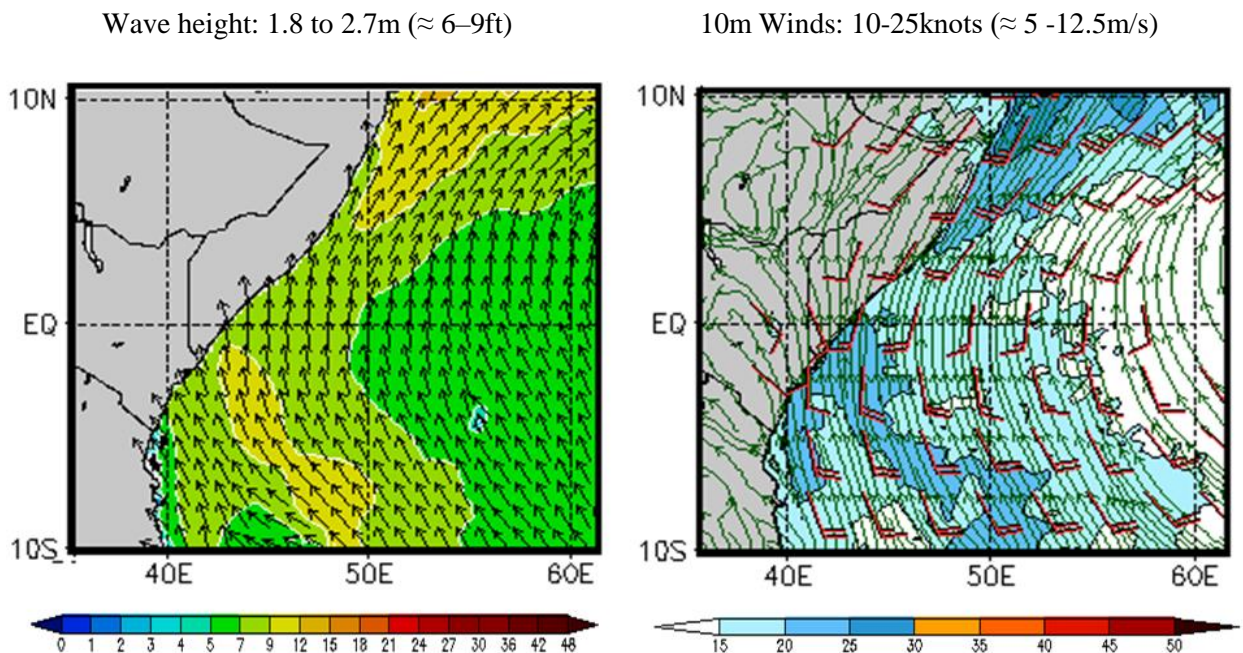
- Moderate to rough sea condition with wave heights of 1.5-2.7 M (5-9ft) is expected along the Tanzanian, Kenyan and Somali waters while
- Fresh to Strong breeze expected with wind speeds of 10-25 Knots (\approx 5 – 12.5m/s) along the Tanzanian, Kenyan and Somalia waters throughout the forecasting period.

2. WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 27th July TO 2nd AUGUST, 2021.

2.1 Tuesday 27th July, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)



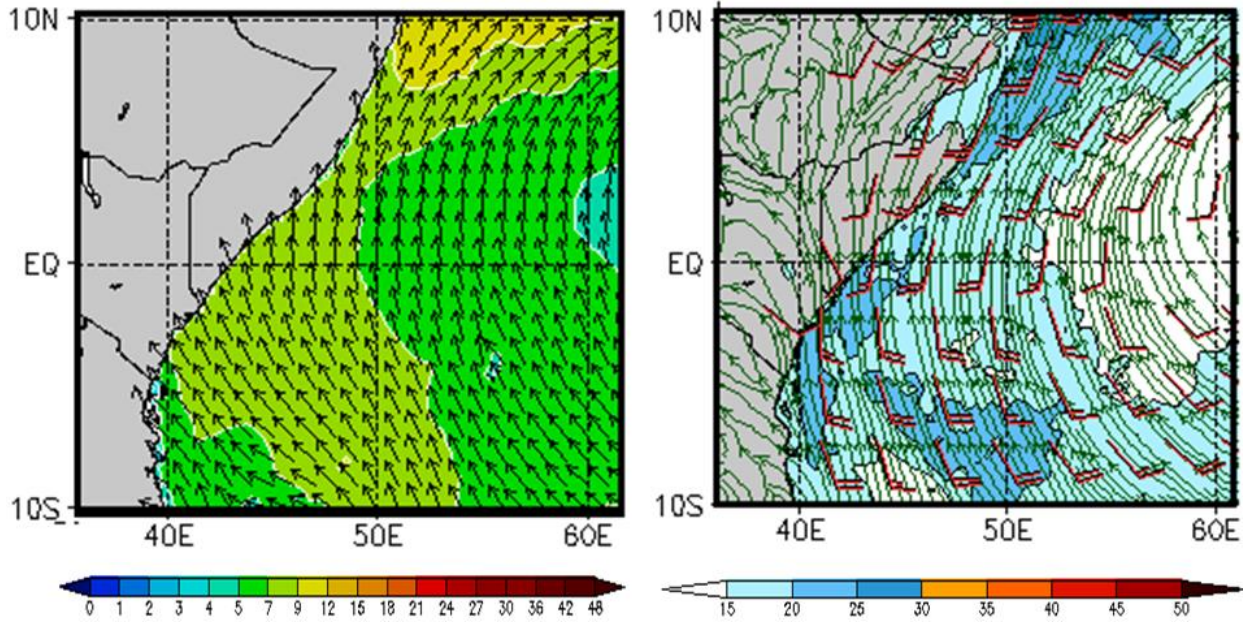
2.2 Wednesday 28th July, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)



2.3 Thursday 29th July, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.8 to 2.7 m (\approx 6– 9ft)

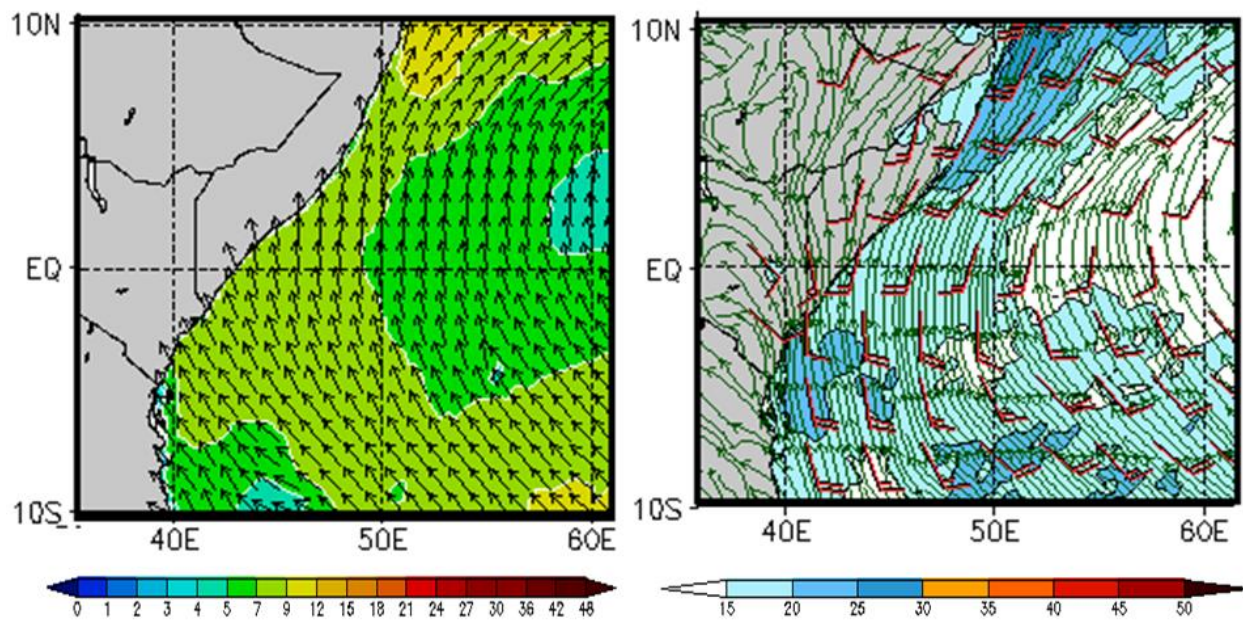
10m Winds: 10-20knots (\approx 5 – 10.0m/s)



2.4 Friday 30th July, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.5 to 2.4m (\approx 5– 8 ft)

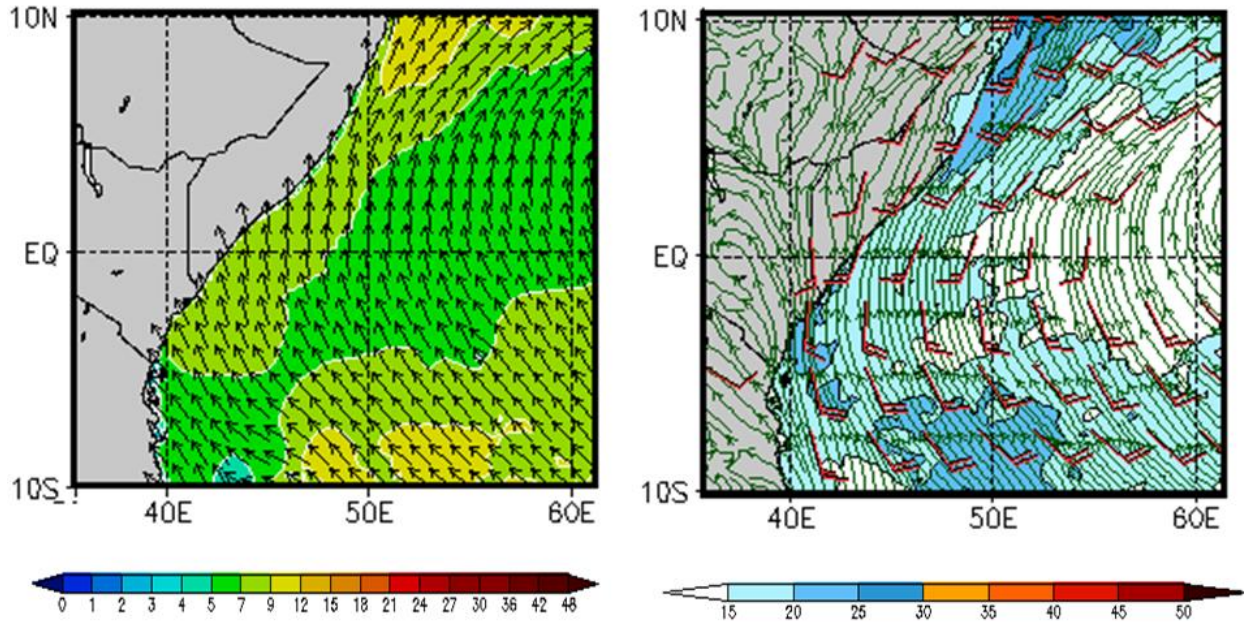
10m Winds: 10-20knots (\approx 5 -10.0m/s)



2.5 Saturday 31st July, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.5 to 2.7 m (\approx 5–8 ft)

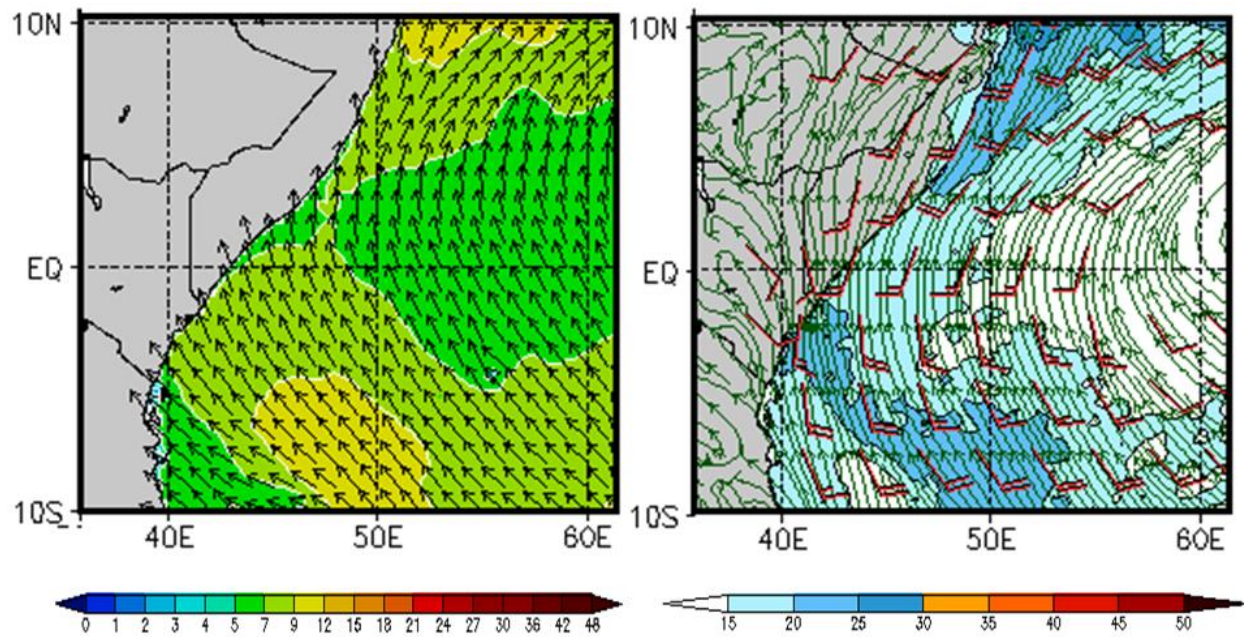
10m Winds: 10-20knots (\approx 5 -10m/s)



2.6 Sunday 01st August, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.8 to 2.7m (\approx 6–9ft)

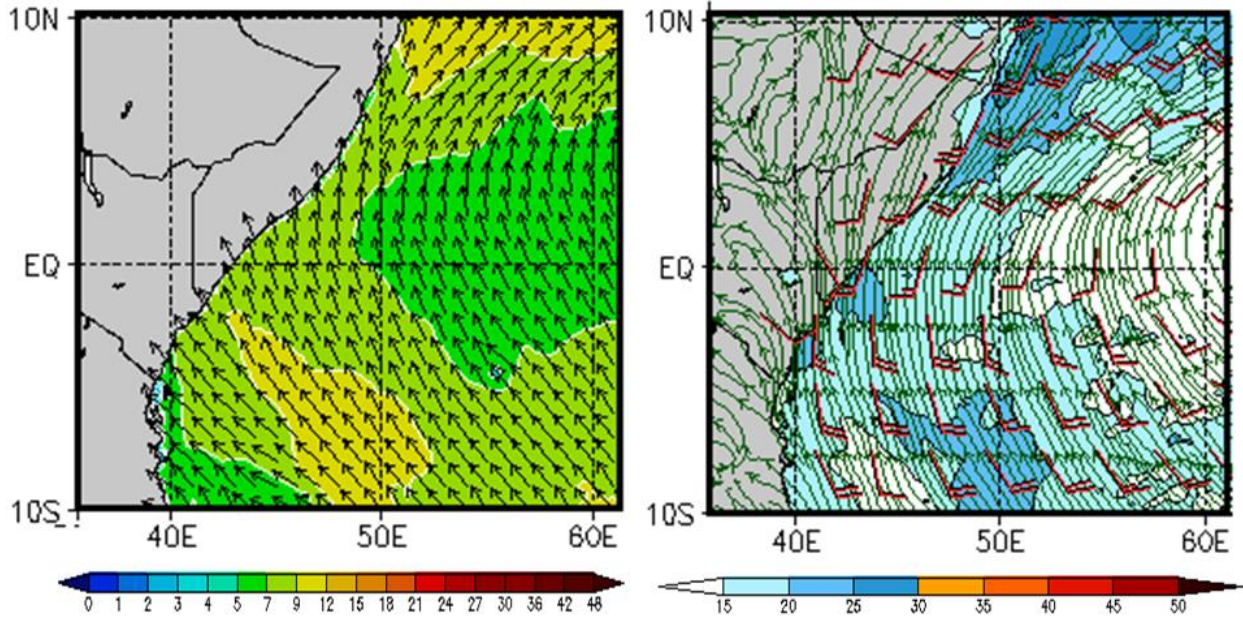
10m Winds: 10-20knots (\approx 5 -10m/s)



2.7 Monday 02nd August, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.8 to 2.7m (\approx 6-9ft)

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

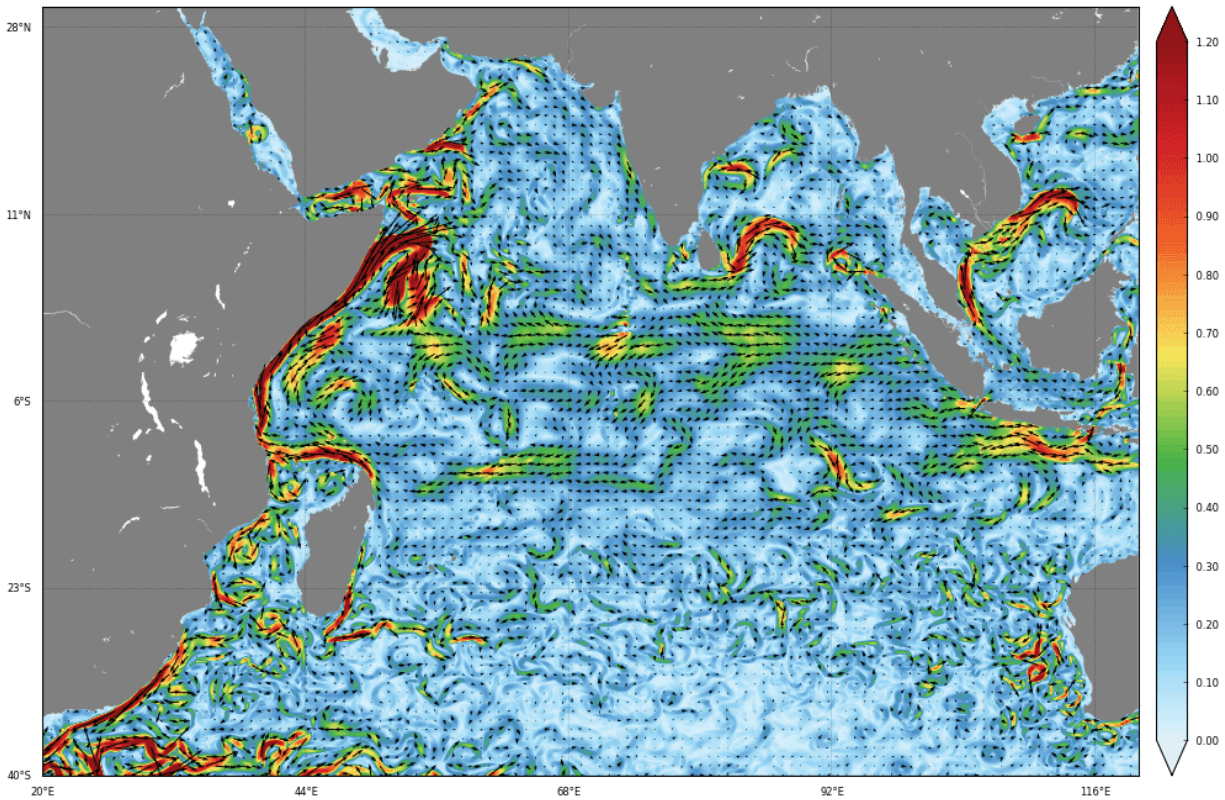


3. Tide forecast valid 27th July to 02nd August, 2021

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue, 27th July 2021	1st Tide	06:23 AM	3.17 m	12:11 AM	0.22 m
	2nd Tide	06:33 PM	3.43 m	12:16 PM	0.47 m
Wed, 28th July 2021	1st Tide	07:01 AM	3.13 m	12:46 AM	0.31 m
	2nd Tide	07:10 PM	3.21 m	12:56 PM	0.59 m
Thu, 29th July 2021	1st Tide	07:39 AM	3.04 m	01:21 AM	0.46 m
	2nd Tide	07:46 PM	2.95 m	01:38 PM	0.76 m
	1st Tide	08:18 AM	2.91 m	01:56 AM	0.64 m

Fri, 30th July 2021	2nd Tide	08:24 PM	2.68 m	02:22 PM	0.96 m
Sat, 31st July 2021	1st Tide	09:01 AM	2.77 m	02:33 AM	0.84 m
	2nd Tide	09:08 PM	2.42 m	03:13 PM	1.15 m
Sun, 01st August 2021	1st Tide	09:53 AM	2.64 m	03:16 AM	1.04 m
	2nd Tide	10:06 PM	2.19 m	04:19 PM	1.31 m
Mon, 02nd August 2021	1st Tide	11:02 AM	2.55 m	04:12 AM	1.22 m
	2nd Tide	11:35 PM	2.06 m	05:47 PM	1.37 m

4. 9days Ocean surface current forecast valid 26/07/2021 to 03/08/2021



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.

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