



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

Dagoretti Corner, Ngong Road, P. O. Box 30259, 00100 GPO, Nairobi, Kenya
Telephone: 254 (0) 20 3867880-7, Fax: 254 (0) 20 3876955/3877373/3867888,
e-mail: director@meteo.go.ke, info@meteo.go.ke Website: <http://www.meteo.go.ke>

REF.NO: KMD/FCST/9-2021/MARINE/38 Date: 13th September, 2021

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 14/09/2021-20/09/2021**

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:

Slight to moderate waves of 0.8 – 2.7 m (\approx 3 – 9ft) expected to be mainly south easterly over Kenyan and Tanzania turning to southerly over Somali waters during the forecasting period.

1.3 Sea conditions

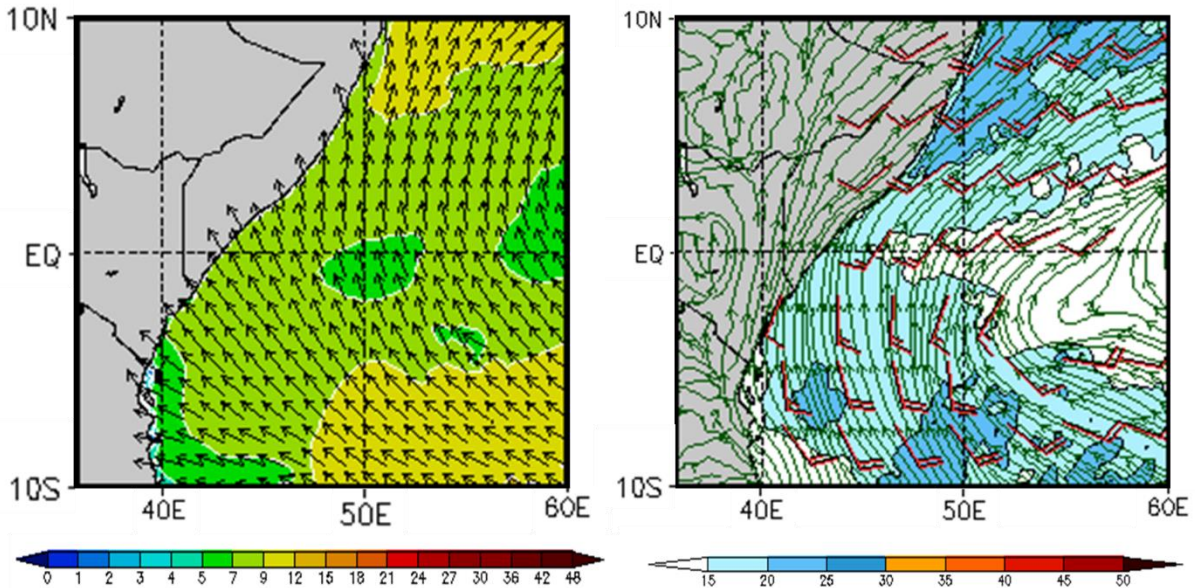
- Slight to Moderate sea condition with wave heights of 0.8-2.7m (3-9ft) is expected offshore the Tanzanian, Kenyan and Somali waters while
- Fresh to Strong breeze expected with wind speeds of 10-25 Knots (\approx 5 – 12.5m/s) along the Tanzanian, Kenyan and Somalia waters throughout the forecasting period.

2. WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 14TH SEPTEMBER TO 20TH SEPTEMBER, 2021.

2.1 Tuesday 14th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.7m (\approx 4–9 ft)

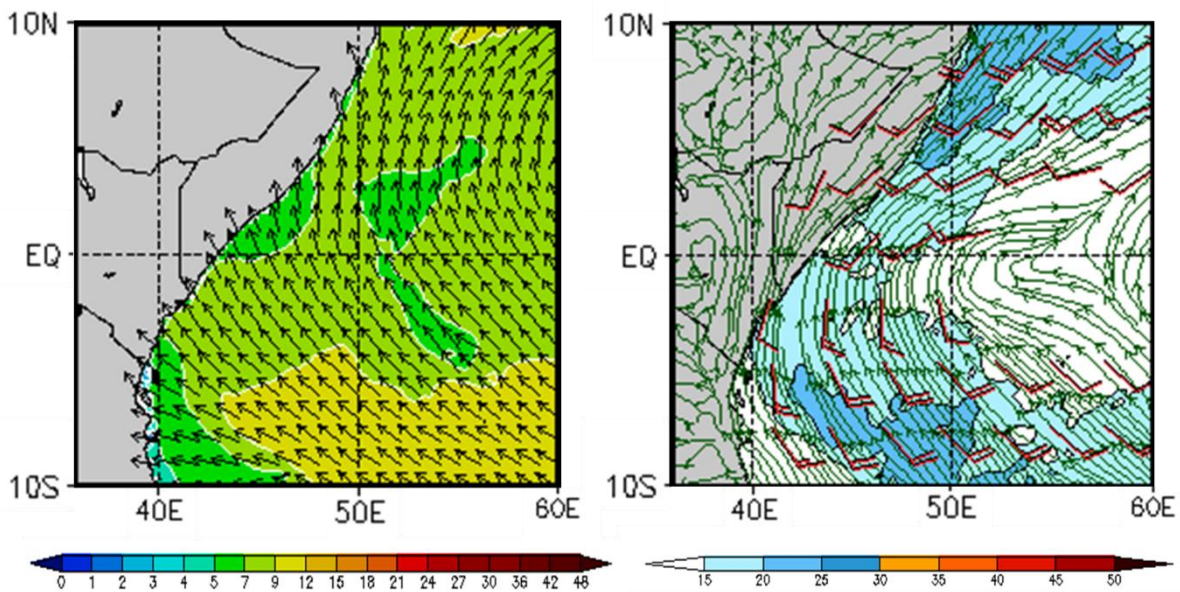
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.2 Wednesday 15th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.7m (\approx 4–9ft)

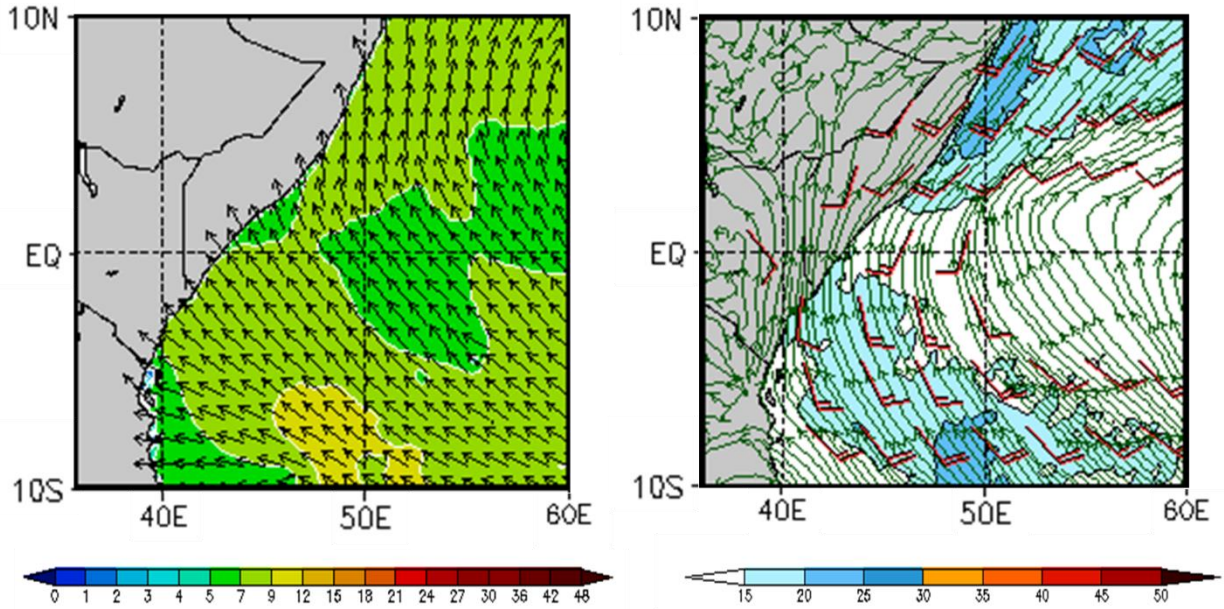
10m Winds: 10-25knots (\approx 5 -12.5m/s)



2.3 Thursday 16th September, 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– 9ft)

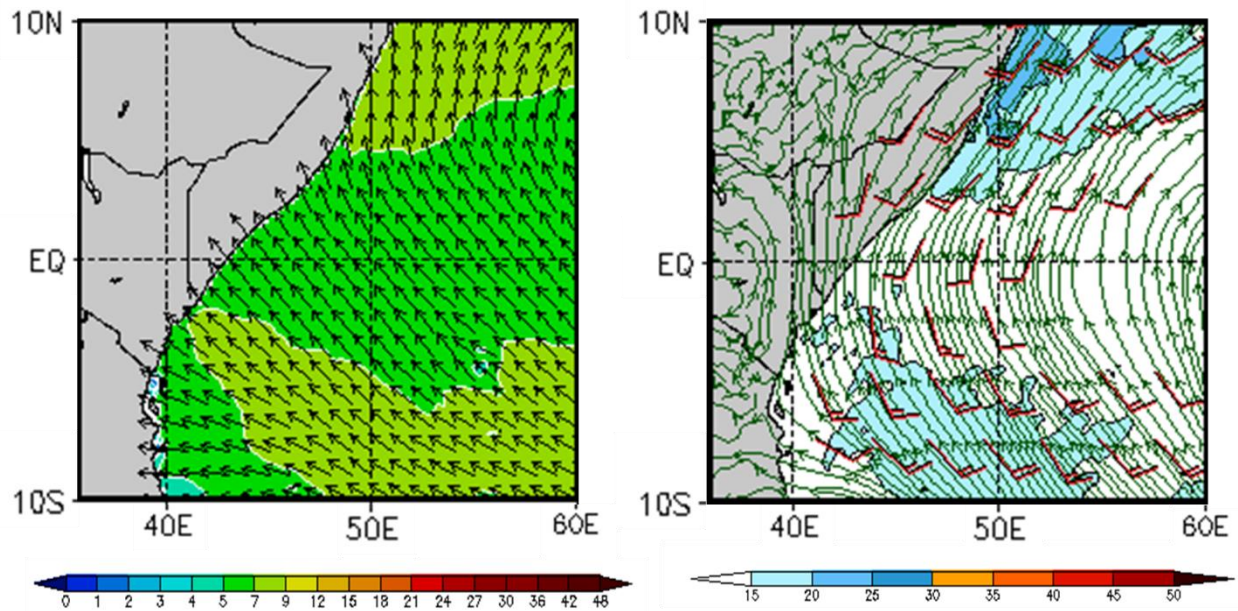
10m Winds: 10-20knots (\approx 5 – 10m/s)



2.4 Friday 17th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.4m (\approx 4– 7ft)

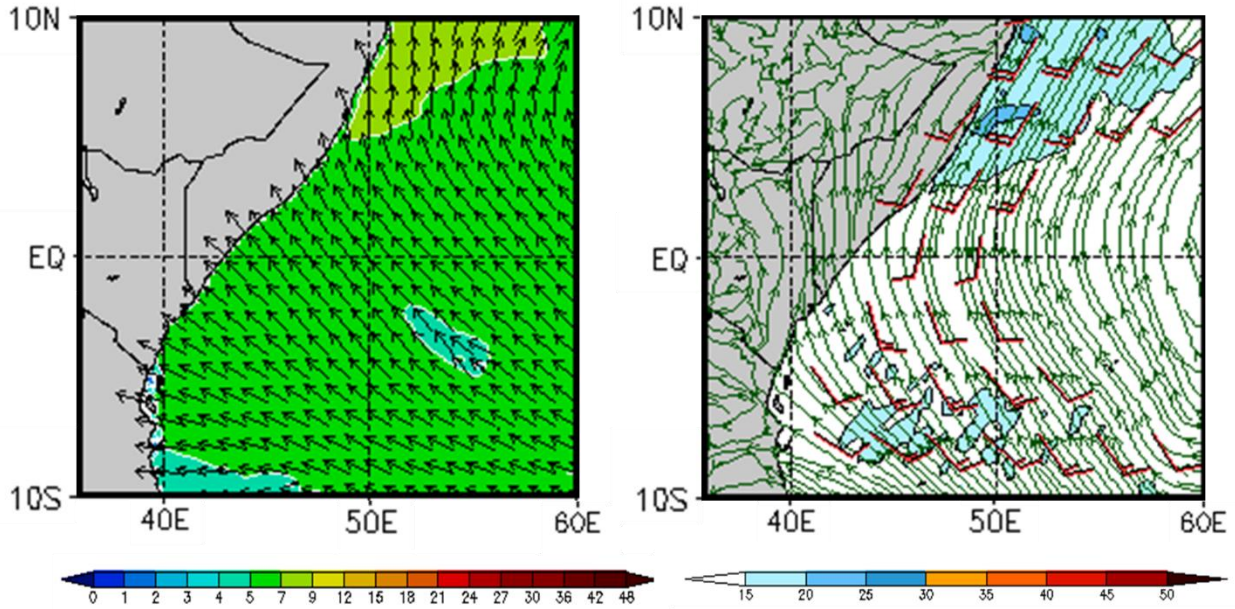
10m Winds: 10-20knots (\approx 5 -10m/s)



2.5 Saturday 18th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.8 to 2.4 m (\approx 3–7 ft)

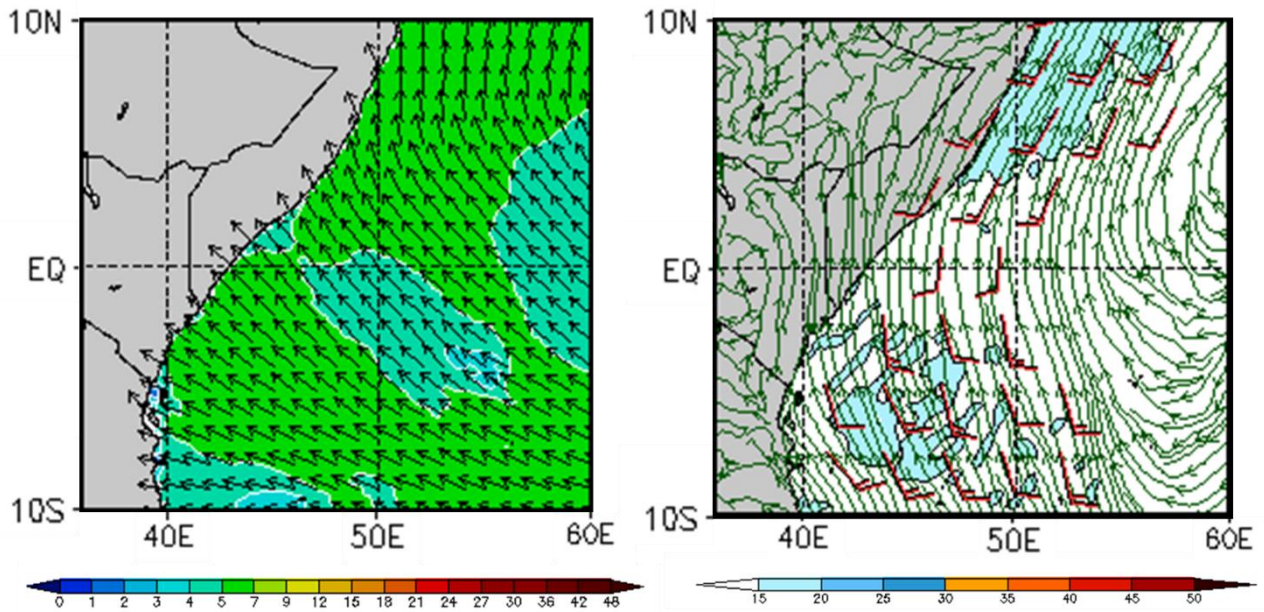
10m Winds: 10-20knots (\approx 5 -10m/s)



2.6 Sunday 19th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.8 to 2.4m (\approx 3–5ft)

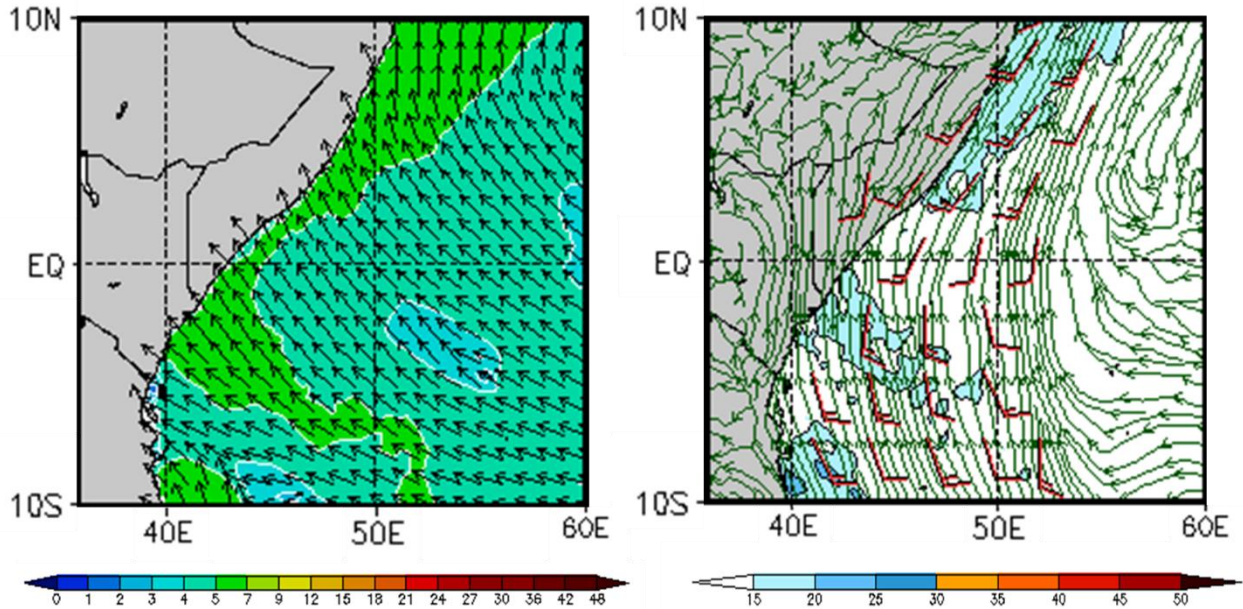
10m Winds: 10-20knots (\approx 5 -10m/s)



2.7 Monday 20th September, 2021: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.8 to 1.5m (\approx 3-5ft)

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

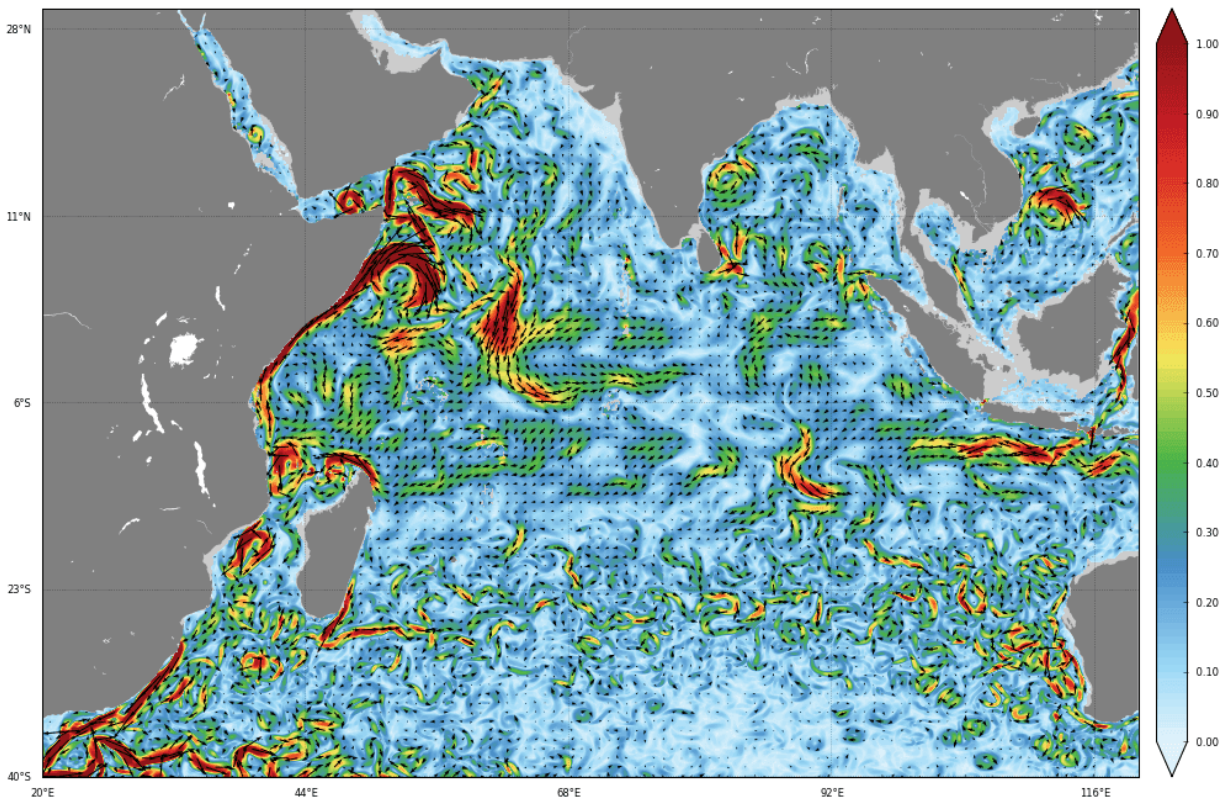


3. Tide forecast valid 14th September to 20th September, 2021

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue, 14 th September 2021	1 st Tide	09:06 AM	2.92 m	02:20 AM	0.88 m
	2 nd Tide	09:44 PM	2.18 m	03:39 PM	1.09 m
Wed, 15 th September 2021	1 st Tide	10:35 AM	2.68 m	03:28 AM	1.19 m
	2 nd Tide	11:52 PM	2.07 m	05:37 PM	1.23 m
Thu, 16 th September 2021	1 st Tide	12:33 PM	2.67 m	05:31 AM	1.34 m
	2 nd Tide			07:31 PM	1.07 m
	1 st Tide	01:41 AM	2.29 m	07:27 AM	1.18 m

Fri, 17th September 2021	2nd Tide	01:57 PM	2.87 m	08:32 PM	0.81 m
Sat 18th September 2021	1st Tide	02:40 AM	2.61 m	08:33 AM	0.89 m
	2nd Tide	02:52 PM	3.11 m	09:14 PM	0.57 m
Sun, 19th September 2021	1st Tide	03:22 AM	2.93 m	09:19 AM	0.62 m
	2nd Tide	03:34 PM	3.30 m	09:48 PM	0.38 m
Mon, 20th September 2021	1st Tide	03:58 AM	3.19 m	09:57 AM	0.58 m
	2nd Tide	04:10 PM	3.41 m	10:17 PM	0.79 m

4. 9days Ocean surface current forecast valid 13/09/2021 to 20/09/2021



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