



**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND 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](mailto:director@meteo.go.ke), [info@meteo.go.ke](mailto:info@meteo.go.ke) **Website:** <http://www.meteo.go.ke>

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**REF.NO: KMD/FCST/9-2023/MARINE/40**

**Date: 25<sup>th</sup> September, 2023**

**7-Day Marine Forecast for the KENYA coast and off shore areas  
along the Western Indian Ocean Region  
Validity: 26/09/2023 - 02/10/2023**

## **1.0 GENERAL OUTLOOK**

### **1.1 Wind Speed & Direction:**

South-easterly winds are expected over Tanzania and Kenya waters; southerly winds turning into south-westerly over Somalia waters with wind speeds of 10 to 20 knots (5-10 m/s) throughout the forecast period.

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

South-easterly waves expected over Tanzania and Kenya waters; south-easterly turning into southerly waves expected over Somalia waters with wave heights of 1.2 –2.1m ( $\approx$  4 – 7ft) throughout the forecast period.

### **1.3 Sea conditions**

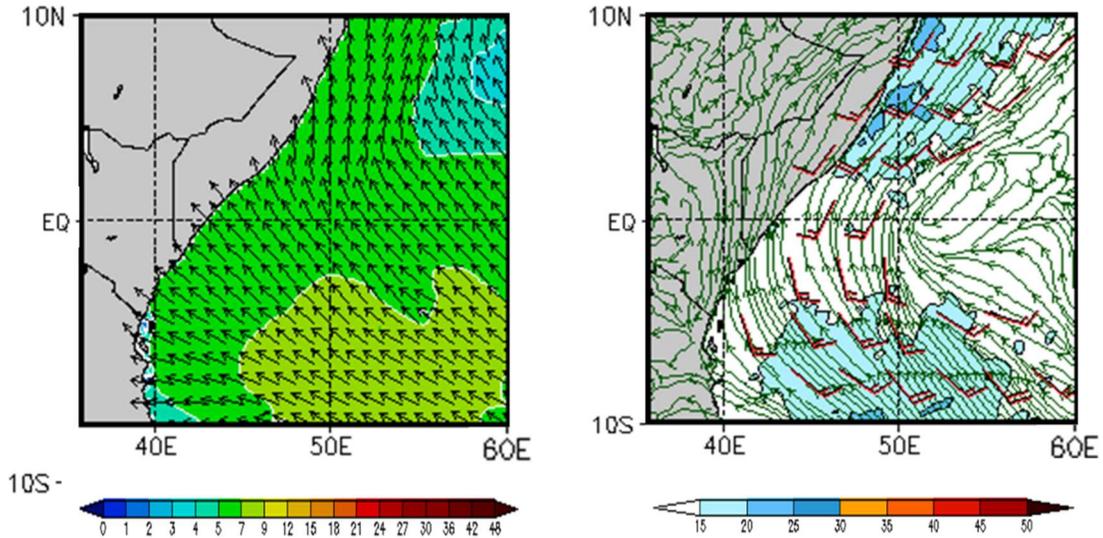
- Slight to moderate sea condition with wave heights of 1.2-2.1m (4-7ft) expected over the Western Indian Ocean basin throughout the forecast period.
- Gentle to fresh breeze with wind speeds of (10 to 20 Knots) expected over northern parts of Somalia waters throughout the forecast period.

**2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 26<sup>TH</sup> SEPTEMBER TO 2<sup>ND</sup> OCTOBER, 2023.**

**2.1 Tuesday 26<sup>th</sup> September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 m to 2.1m ( $\approx$  4– 7ft)

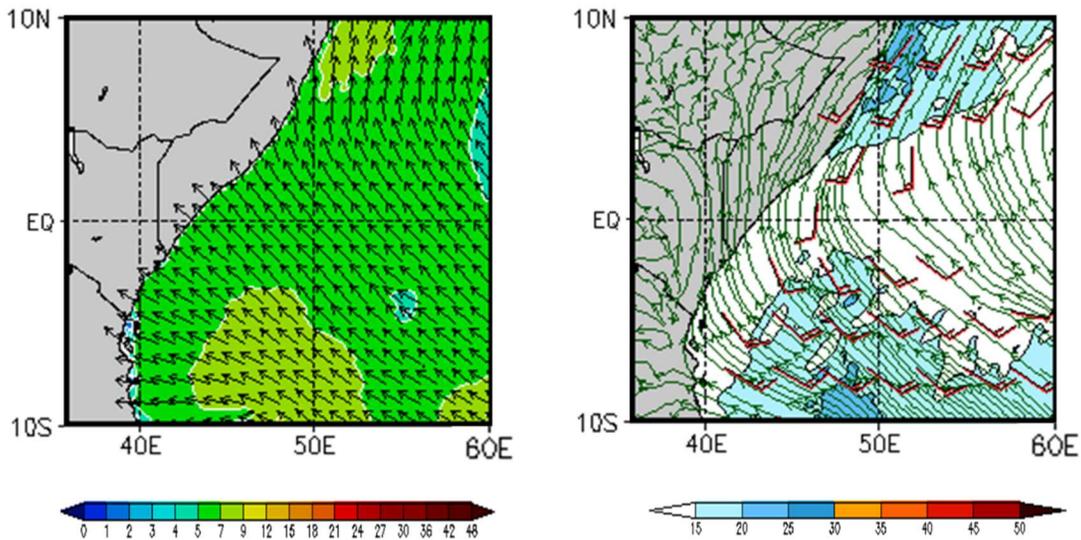
10m Winds: 10-20 knots ( $\approx$  5 – 10 m/s)



**2.2 Wednesday 27<sup>th</sup> September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 1.8 m ( $\approx$  4 – 6ft)

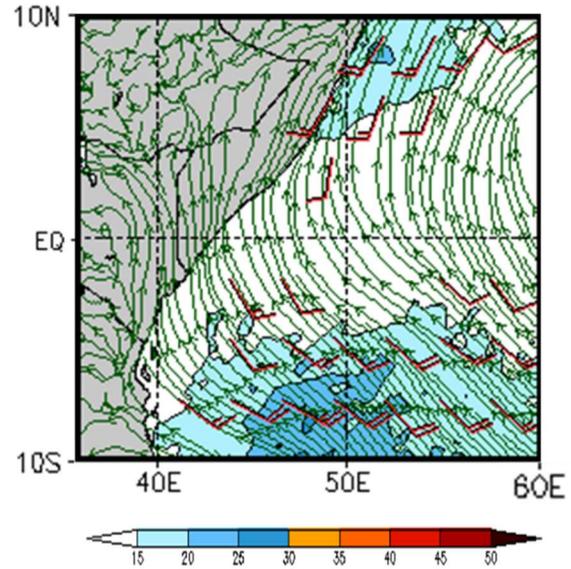
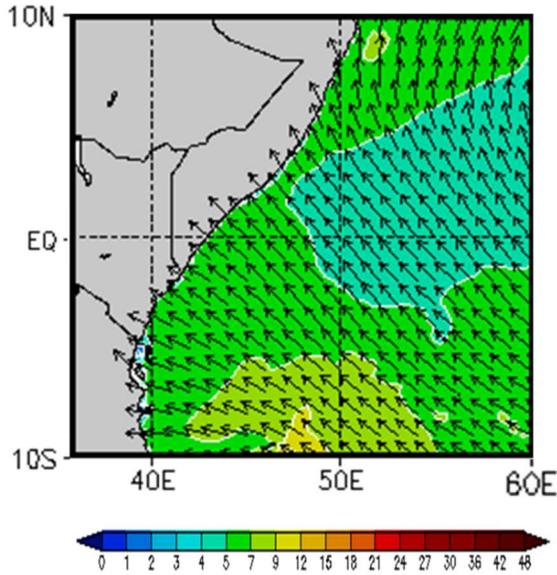
10m Winds: 10-20 knots ( $\approx$  5 – 10m/s)



**2.3 Thursday 28<sup>th</sup> September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 2.1m ( $\approx$  4– 7ft)

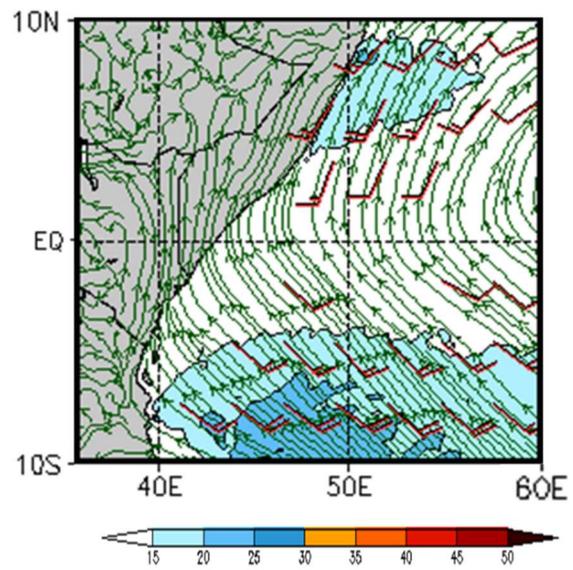
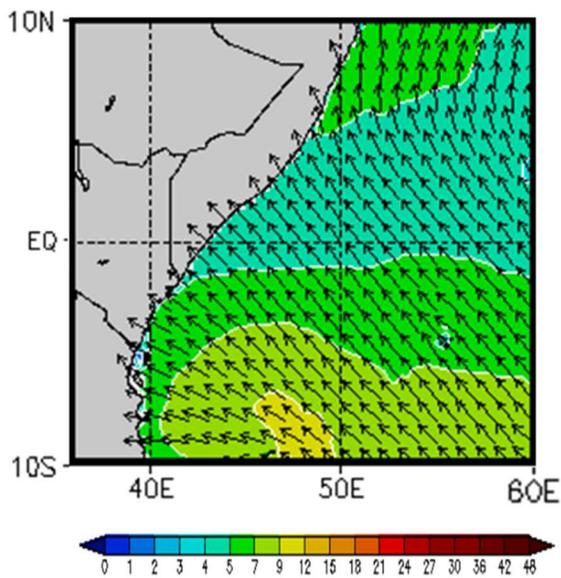
10m Winds: 10-20 knots ( $\approx$  5 – 10m/s)



**2.4 Friday 29<sup>th</sup> September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 2.1 m ( $\approx$  4– 7ft)

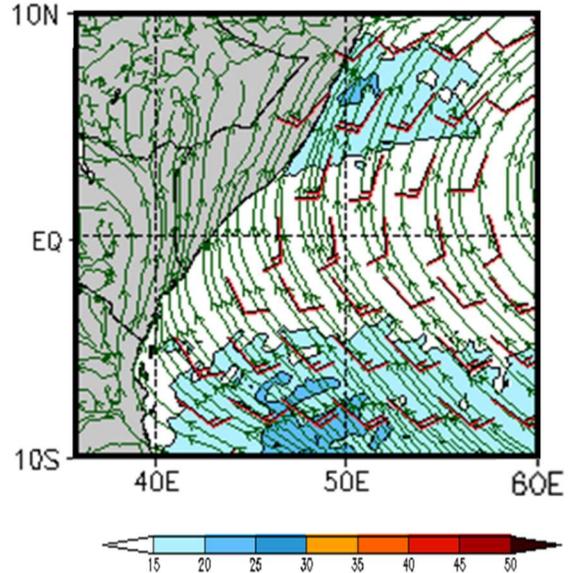
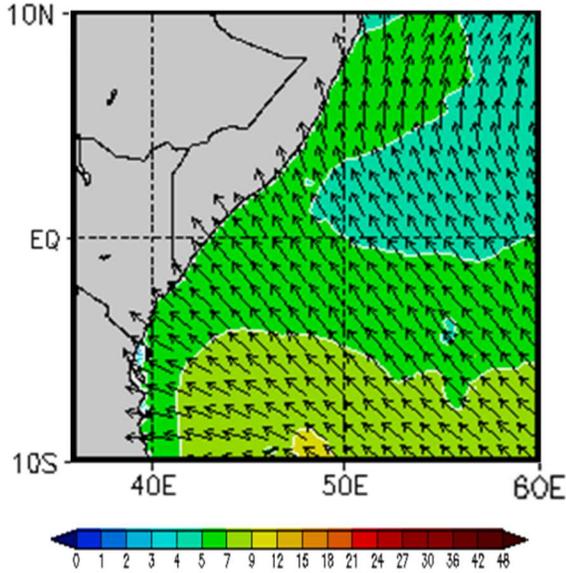
10m Winds: 10-20 knots ( $\approx$  5 – 10m/s)



**2.5 Saturday 30<sup>th</sup> September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 2.1 m ( $\approx$  4 –7ft)

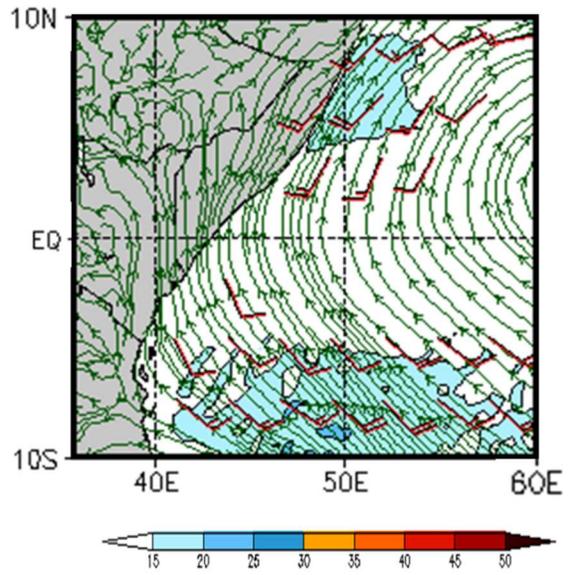
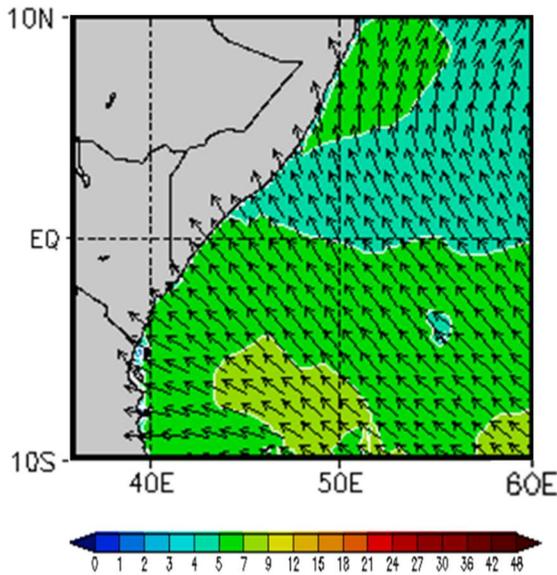
10m Winds: 10-20 knots ( $\approx$  5 – 10m/s)



**2.6 Sunday 1<sup>st</sup> October, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 1.8m ( $\approx$  4–6ft)

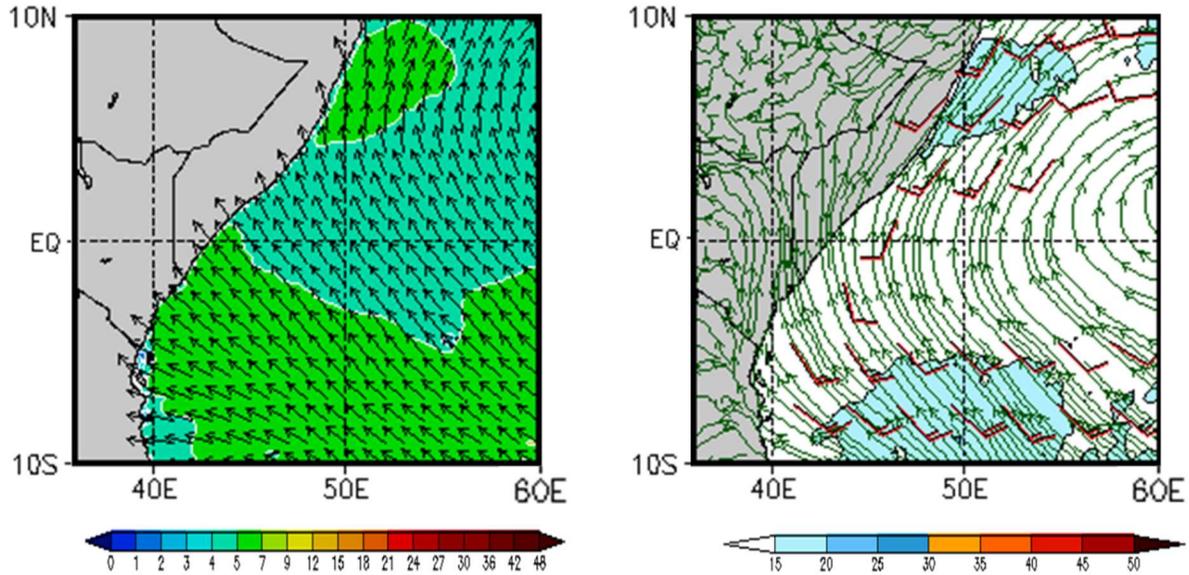
10m Winds: 10-15 knots ( $\approx$  5 – 7.5m/s)



**2.7 Monday 2<sup>nd</sup> October, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)**

Wave height: 1.2 to 1.5m ( $\approx$  4– 5ft)

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

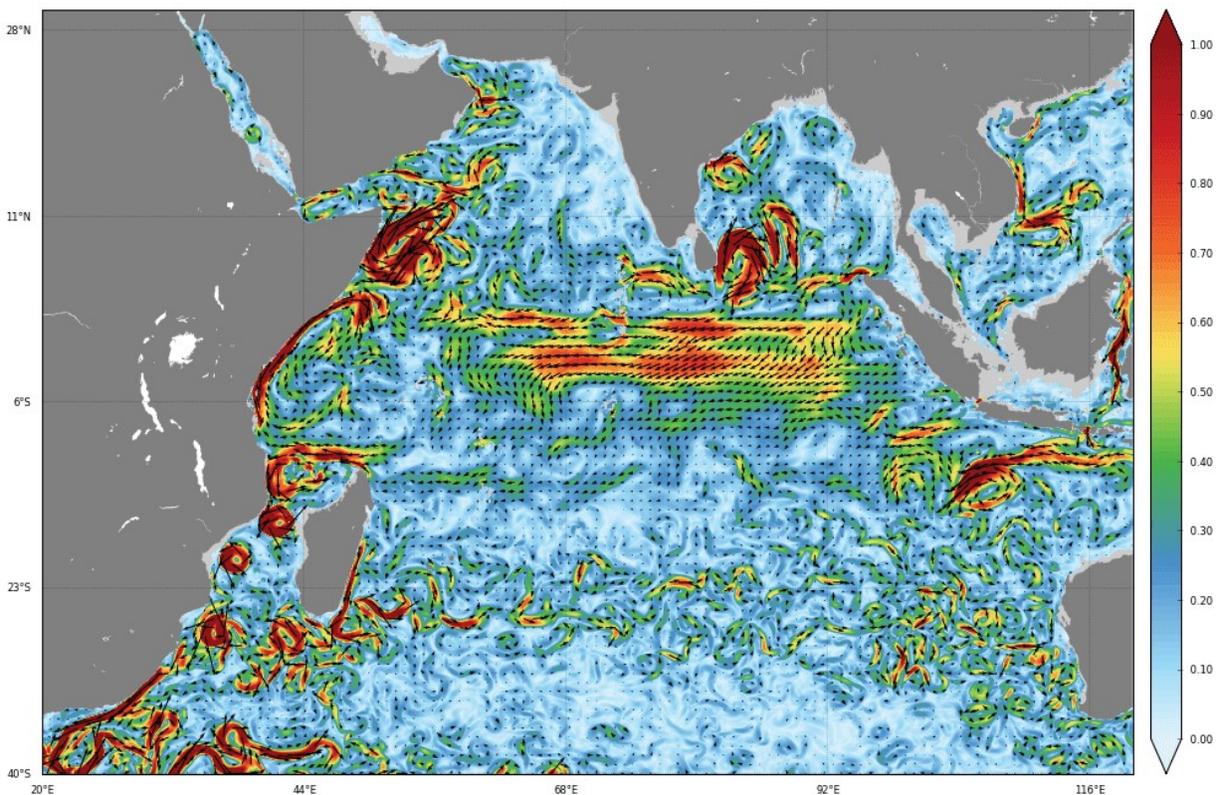


**3.0 Tide forecast valid 26<sup>th</sup> September, 2023 to 2<sup>nd</sup> October, 2023**

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 26 <sup>th</sup> September, 2023	1 <sup>st</sup> Tide	01:53 AM	2.40 m	07:42 AM	1.08 m
	2 <sup>nd</sup> Tide	02:05 PM	2.96 m	08:32 PM	0.68 m
Wed 27 <sup>th</sup> September, 2023	1 <sup>st</sup> Tide	02:42 AM	2.83 m	08:39 AM	0.69 m
	2 <sup>nd</sup> Tide	02:55 PM	3.26 m	09:10 PM	0.38 m
Thur 28 <sup>th</sup> September, 2023	1 <sup>st</sup> Tide	03:22 AM	3.23 m	09:24 AM	0.33 m
	2 <sup>nd</sup> Tide	03:37 PM	3.48 m	09:45 PM	0.14 m
Fri 29 <sup>th</sup> September, 2023	1 <sup>st</sup> Tide	03:58 AM	3.58 m	10:04 AM	0.05 m

	<b>2<sup>nd</sup> Tide</b>	04:16 PM	3.61 m	10:19 PM	-0.01 m
<b>Sat 30<sup>th</sup> September, 2023</b>	<b>1<sup>st</sup> Tide</b>	04:34 AM	3.81 m	10:42 AM	-0.10 m
	<b>2<sup>nd</sup> Tide</b>	04:53 PM	3.61 m	10:51 PM	-0.06 m
<b>Sun 1<sup>st</sup> October, 2023</b>	<b>1<sup>st</sup> Tide</b>	05:09 AM	3.92 m	11:19 AM	-0.12 m
	<b>2<sup>nd</sup> Tide</b>	05:29 PM	3.51 m	11:23 PM	0.00 m
<b>Mon 2<sup>nd</sup> October, 2023</b>	<b>1<sup>st</sup> Tide</b>	05:43 AM	3.88 m	11:55 AM	-0.01 m
	<b>2<sup>nd</sup> Tide</b>	06:03 PM	3.32 m	11:55 PM	0.16 m

**4.0. 9 days Ocean surface current in meters per seconds (m/s) forecast valid 25/09/2023 to 04/10/2023**



## 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.*

Dr. David Gikungu  
**DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT**