



**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND**  
**FORESTRY**

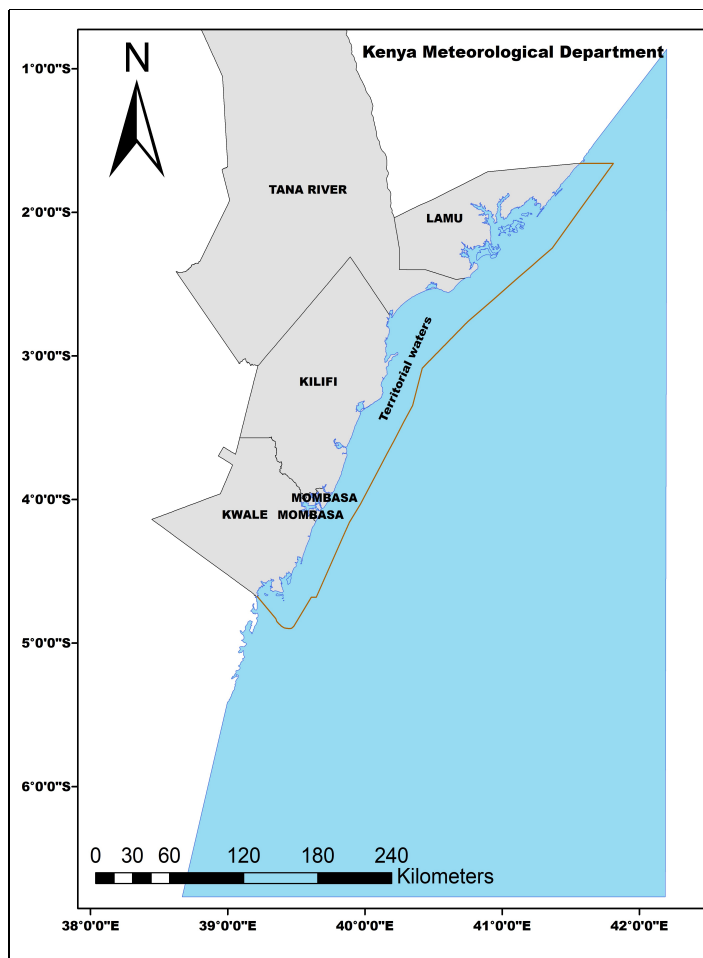
**KENYA METEOROLOGICAL DEPARTMENT**

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>

**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

**Issued at: 1500 EAT on 31<sup>st</sup> January, 2025**

**Valid: 0000 EAT on 1<sup>st</sup> February 2025 to 0000 EAT on 2<sup>nd</sup> February 2025**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds N to NE (04-12 knots) with slight choppy seas. SE to ENE waves of 3-4ft (0.9-1.2m) with small period waves of (7sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Breezy to moderately strong ENE winds (11-21 knots) with moderate choppy seas. ESE to E waves of 4-6feet (1.2-1.8m) with small period waves of (6-10sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Visibility:**

- Moderate visibility (9-10 km) expected in Kwale, Mombasa, Kilifi and Lamu.

## **COASTAL COUNTIES MARINE NEAR SHORE FORECAST**

### **i. KWALE**

- Morning Winds: N 7 to 10 knots.
- Morning Waves: ENE 3 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 16 to 20 knots.
- Afternoon Waves: ENE 4 feet at 7 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small short period waves.
- Sunrise; **6:26AM** and sunset; **6:45PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:55AM; 3.74m, 6:21PM; 3.56m**
- Low Tide: **12:10PM; 0.07m**

### **ii. MOMBASA**

- Morning Winds: N 5 to 7 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ENE 15 to 18 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small mid period waves.
- Sunrise; **6:26AM** and sunset; **6:43PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **6:02AM; 3.7m, 6:28PM; 3.5m**
- Low Tide: **12:13PM; 0.1m**

### **iii. KILIFI**

- Morning Winds: NNE 9 to 10 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Light NNE winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 15 to 18 knots.
- Afternoon Waves: ESE 5 feet at 7 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small short period waves.
- Sunrise; **6:25AM** and sunset; **6:42PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:51AM; 3.42m, 6:18PM; 3.22m**
- Low Tide: **12:06PM; -0.06m**

### **iv. LAMU**

- Morning Winds: NE 4 to 12 knots.
- Morning Waves: SE 4 feet at 11 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 11 to 21 knots.
- Afternoon Waves: E 6 feet at 6 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **6:23AM** and Sunset; **6:36PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:51AM; 3.29m, 6:19PM; 3.07m**
- Low Tide: **12:08PM; -0.07m**

### **Advisory**

- Slight to moderate sea conditions are expected with a significant wave height of 0.9-1.8m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (04-21 knots) expected in Kwale, Mombasa, Kilifi and Lamu throughout the forecast period. Small boats and crafts are advised to be cautious while venturing into deep sea areas in Kwale and Lamu.

#### **KEY ON SEA STATE**

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

#### **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 – $\geq$ 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!!!!

*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.*

OCHIEN’G PHILLIP OKELLO  
FOR DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT