



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

**KENYA METEOROLOGICAL DEPARTMENT**

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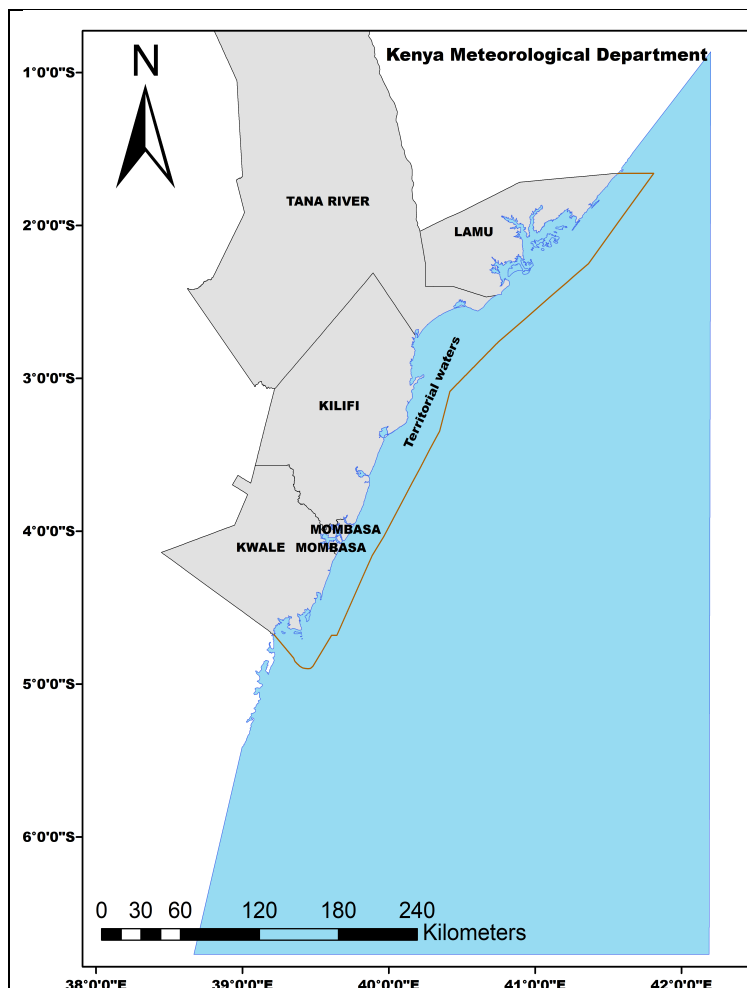
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

Issued at: 1500 EAT on 16<sup>th</sup> February, 2025

Valid: 0000 EAT on 17<sup>th</sup> February 2025 to 0000 EAT on 18<sup>th</sup> February 2025



**GENERAL OUTLOOK**

**Morning sea state:**

- Light NNW to NE winds (04-09knots) with slight choppy seas. E to ESE waves of 3-4ft (0.9-1.2m) with small period waves of (6-10sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Breezy to moderately strong E to ENE winds (13-22knots) with moderate choppy seas. E to ENE waves of 4-5feet (1.2-1.5m) with small period waves of (5-7sec) 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: NNW 5 to 6 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 18 to 22 knots.
- Afternoon Waves: ENE 4 feet at 5 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small very short period waves.
- Sunrise; **6:29AM** and sunset; **6:43PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **6:43AM; 3.26m, 6:59PM; 3.32m**
- Low Tide: **00:37AM;0.47m, 12:47PM;0.5m**

### **ii. MOMBASA**

- Morning Winds: NNW 4 to 5 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: ENE 16 to 19 knots.
- Afternoon Waves: ENE 4 feet at 7 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small short period waves.
- Sunrise; **6:28AM** and sunset; **6:42PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **6:47AM; 3.2m, 7:06PM; 3.29m**
- Low Tide: **00:42AM; 0.53m, 12:50PM;0.46m**

### **iii. KILIFI**

- Morning Winds: NE 9 knots.
- Morning Waves: ESE 4 feet at 7 seconds.
- Morning sea state: Light NE winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 17 to 18 knots.
- Afternoon Waves: ENE 5 feet at 7 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small short period waves.
- Sunrise; **6:27AM** and sunset; **6:41PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:36AM; 2.9m, 6:55PM;3m**
- Low Tide: **00:34AM; 0.36m, 12:41PM;0.3m**

### **iv. LAMU**

- Morning Winds: NNE 4 to 6 knots.
- Morning Waves: E 4 feet at 6 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small very short period waves.
- Afternoon Winds: E 13 to 22 knots.
- Afternoon Waves: E 5 feet at 5 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **6:25AM** and Sunset; **6:36PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:36AM; 2.78m, 6:56PM;2.88m**
- Low Tide: **00:36AM; 0.36m, 12:42PM;0.28m**

### Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 0.9-1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (04-22knots) 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 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.*

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