



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

**KENYA METEOROLOGICAL DEPARTMENT**

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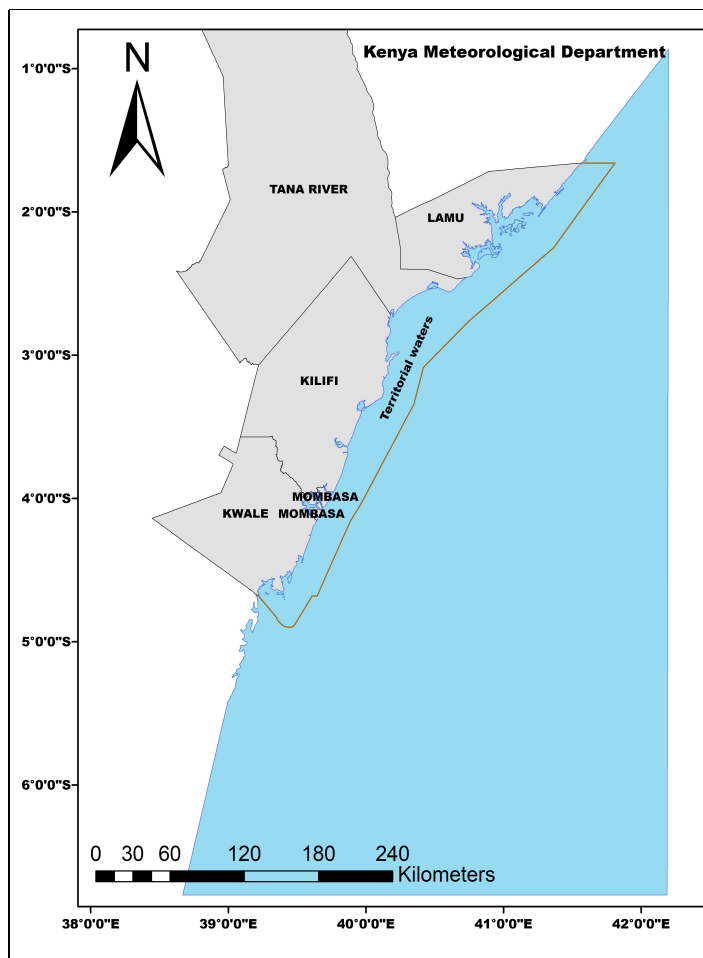
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

Issued at: 1500 EAT on 18<sup>th</sup> February, 2025

Valid: 0000 EAT on 19<sup>th</sup> February 2025 to 0000 EAT on 20<sup>th</sup> February 2025



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (03-13 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2m - 1.5m) with small period waves of (13 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (12-25 knots) with slight choppy seas. ESE waves of 4-6 feet (1.2m - 1.8m) with small period waves of (12 sec) 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 11 to 13 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Breezy N winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: NE 22 to 25 knots.
- Afternoon Waves: ENE 6 feet at 6 seconds.
- Afternoon sea state: Strong NE winds with very choppy seas. Small Craft Advisory. Moderate very short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **07.34 AM; 2.8m, 07.57 PM; 3.0m,**
- Low Tide: **01:39AM; 0.9m, 01:36 PM;0.9m**

### **ii. MOMBASA**

- Morning Winds: N 6 to 9 knots.
- Morning Waves: ESE 4 feet at 13 seconds.
- Morning sea state: Light N winds with a slight chop. Small mid period waves.
- Afternoon Winds: NE 16 to 19 knots.
- Afternoon Waves: ESE 4 feet at 12 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**23 15 / 32 Sunny intervals / Sunny intervals
- High Tide: **07:39AM; 2.8m, 08:04PM; 3.0m,**
- Low Tide: **01:42AM; 0.9m, 01:39PM; 0.8m**

### **iii. KILIFI**

- Morning Winds: NNW 4 to 5 knots.
- Morning Waves: ESE 5 feet at 13 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: ENE 14 to 17 knots.
- Afternoon Waves: ESE 5 feet at 12 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07:25AM; 2.4m, 07:49PM; 2.7m,**
- Low Tide; **01:34AM; 0.7m, 01:28PM;0.7m**

### **iv. LAMU**

- Morning Winds: ENE 3 knots.
- Morning Waves: ESE 4 feet at 13 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 12 to 22 knots.
- Afternoon Waves: ENE 5 feet at 6 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **00.38AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07.26 AM; 2.3m, 07.51 PM; 2.6m**
- Low Tide: **01:36 AM; 0.7m, 01:29 PM;0.6m**

### Advisory

- Moderate to rough conditions are expected with a significant wave height of 1.2m – 1.8m in Kwale, Mombasa, Kilifi and Lamu
- Calm breeze to Strong breeze of (03-25 knots) expected in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised to be cautious while carrying out marine activities

### 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!!!! Warning in place and marine activities on hold
4.1 – 5.5 m ( $\approx$ 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 – $\geq$ 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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