

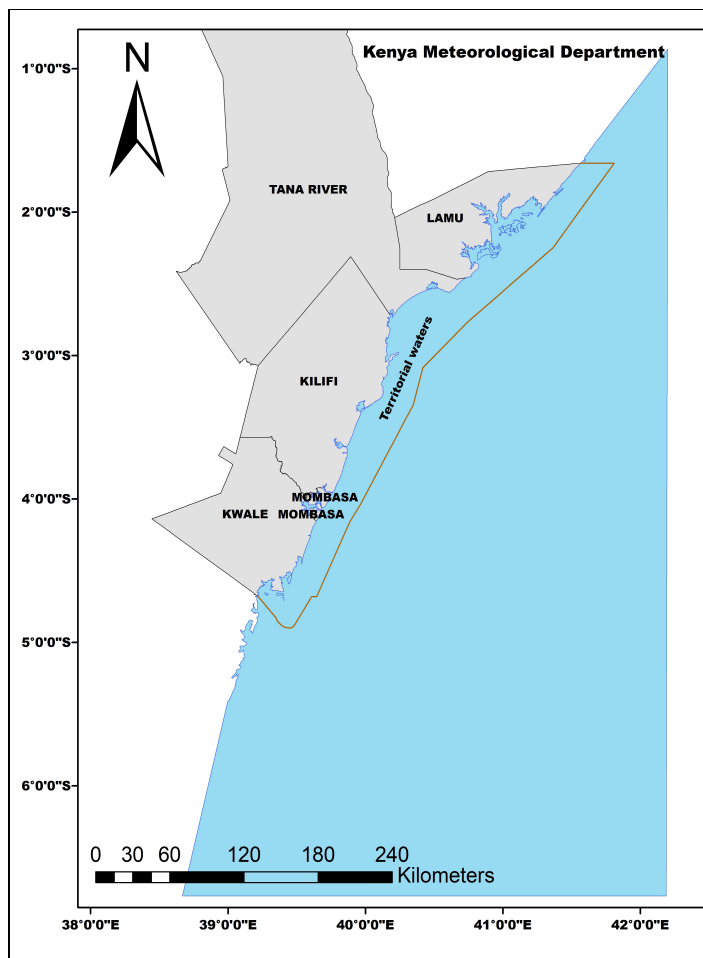


**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
Issued at: 1500 EAT on 10<sup>th</sup> December, 2024  
Valid: 0000 EAT on 11<sup>th</sup> December 2024 to 0000 EAT on 12<sup>th</sup> December 2024



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (02-06 knots) with slight choppy seas. ESE waves of 3 feet (0.9m) with small period waves of (9 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (08-17 knots) with slight choppy seas. ESE waves of 3 feet (0.9m) with small period waves of (10 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: NNW 6 knots.
- Morning Waves: NE 3 feet at 9 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 12 to 14 knots.
- Afternoon Waves: NE 3 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **00:20AM; 3.0m, 12:44PM; 2.7m**
- Low Tide: **06:42AM;1.1m, 06:44PM;0.9m**

### **ii. MOMBASA**

- Morning Winds: NW 2 to 3 knots.
- Morning Waves: ENE 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: E 9 to 12 knots.
- Afternoon Waves: ENE 3 feet at 9 seconds.
- Afternoon sea state: Light E winds with a slight chop. Very small short period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **00:17AM; 2.9m, 12:47PM; 2.5m**
- Low Tide: **06:46AM; 1.0m, 06:42PM;0.9m**

### **iii. KILIFI**

- Morning Winds: NW 2 knots.
- Morning Waves: ENE 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 8 to 12 knots.
- Afternoon Waves: ENE 3 feet at 9 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:05AM; 2.7m, 12:35PM;2.3m**
- Low Tide; **06:35AM; 0.9m, 06:30PM;0.8m**

### **iv. LAMU**

- Morning Winds: ENE 2 knots.
- Morning Waves: E 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: E 10 to 17 knots.
- Afternoon Waves: E 3 feet at 9 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Very small short period waves.
- Sunrise; **5:55AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:05 AM; 2.6m, 12:34 PM;2.2m**
- Low Tide: **06:38 AM; 0.8m, 06:29 PM;0.7m**

### Advisory

- Slight sea conditions are expected with a significant wave height of 0.9m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02-17 knots) expected in Kwale, Mombasa, Kilifi and Lamu.

#### 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!!!!
4.1 – 5.5 m (≈ 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 – ≥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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For

**DIRECTOR,  
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