

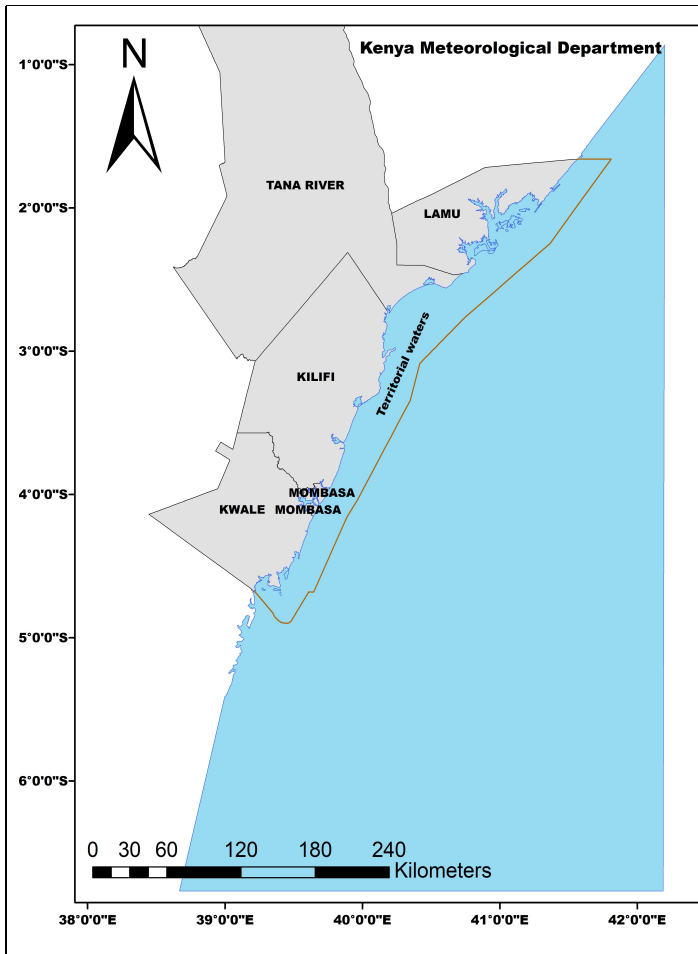


**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
Issued at: 1500 EAT on 15<sup>th</sup> December, 2024  
Valid: 0000 EAT on 16<sup>th</sup> December 2024 to 0000 EAT on 17<sup>th</sup> December 2024



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (03-14 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2 - 1.5m) with small period waves of (8 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (09-20 knots) with slight choppy seas. ESE waves of 4- feet (1.2m) with small period waves of (8 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: NE 12 to 14 knots.
- Morning Waves: ENNE 4 feet at 8 seconds
- Morning sea state: Breezy NE winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: NE 12 to 17 knots.
- Afternoon Waves: ENE 4 feet at 8 seconds.
- Afternoon sea state: Breezy NE winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **04:19AM; 3.9m, 04:50PM; 3.1m**
- Low Tide: **10:47AM;0.2m, 10:41PM;0.5m**

### ii. MOMBASA

- Morning Winds: NE 9 to 12 knots.
- Morning Waves: E 4 feet at 8 seconds.
- Morning sea state: Light NE winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 11 to 14 knots.
- Afternoon Waves: E 4 feet at 8 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **04:27AM; 3.8m, 04:58PM; 3.0m**
- Low Tide: **10:52AM; 0.2m, 10:41PM;0.5m**

### iii. KILIFI

- Morning Winds: NE 6 to 11 knots.
- Morning Waves: ENE 5 feet at 8 seconds.
- Morning sea state: Light NE winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 9 to 14 knots.
- Afternoon Waves: E 4 feet at 8 seconds.
- Afternoon sea state: Light ENE winds with a slight chop. Small short period waves. Light ENE winds with a slight chop. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **04:17AM; 3.5m, 04:50PM;2.7m**
- Low Tide; **10:45AM; 0.0m, 10:35PM;0.3m**

### iv. LAMU

- Morning Winds: ENE 3 to 5 knots.
- Morning Waves: ESE 4 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 10 to 20 knots.
- Afternoon Waves: ESE 4 feet at 8 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:55AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **04:16 AM; 3.3m, 04:50 PM;2.5m**
- Low Tide: **10:48 AM; 0.02m, 10:35 PM;0.31m**

**Advisory**

- Slight sea conditions are expected with a significant wave height of 1.2m-1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (03 - 20 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!!!! 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!!!!

*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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