



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

**KENYA METEOROLOGICAL DEPARTMENT**

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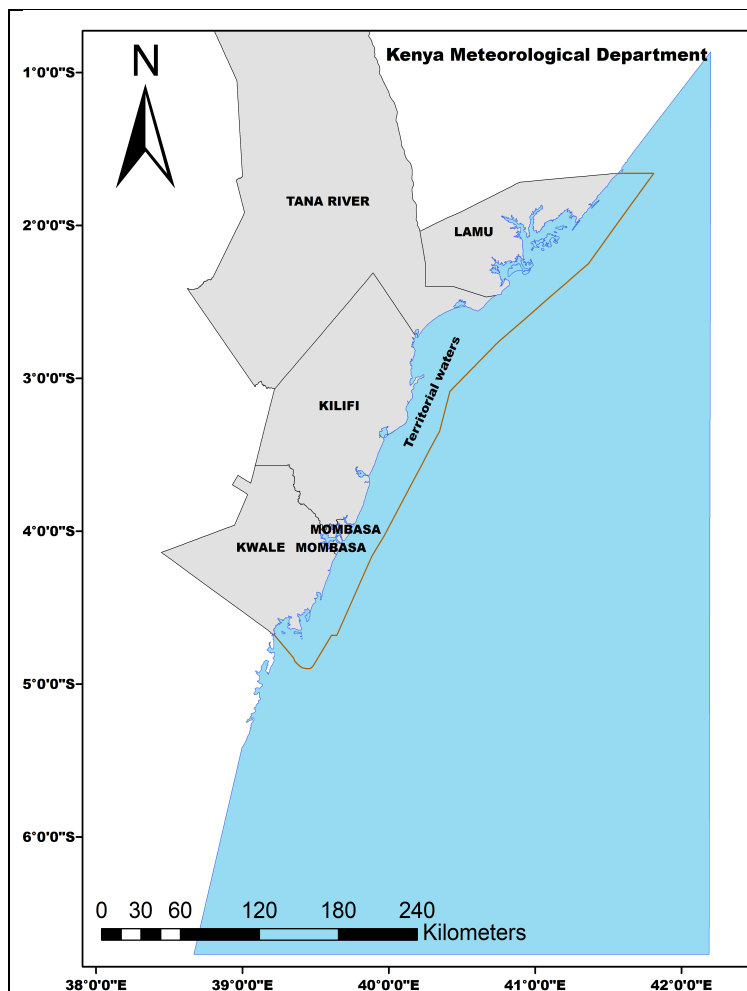
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

Issued at: 1500 EAT on 17<sup>th</sup> January, 2025

Valid: 0000 EAT on 18<sup>th</sup> January 2025 to 0000 EAT on 19<sup>th</sup> January 2025



**GENERAL OUTLOOK**

**Morning sea state:**

- Light to breezy N to NE winds (02-11knots) with slight to moderate choppy seas. E to ENE waves of 4-5ft (1.2-1.5m) with small period waves of (8-9sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Breezy E to ENE winds (10-18knots) with moderate choppy seas. ENE to E waves of 4-5feet (1.2-1.5m) with small period waves of (9sec) 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 6 to 8 knots.
- Morning Waves: ENE 4 feet at 9 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 13 to 16 knots.
- Afternoon Waves: ENE 4 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves..
- Sunrise; **6:22AM** and sunset; **6:43PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **6:43AM; 3.4m, 7:08PM; 3.11m**
- Low Tide: **00:30AM;0.6m, 12:57PM;049m**

### **ii. MOMBASA**

- Morning Winds: N 6 to 9 knots.
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 14 to 17 knots.
- Afternoon Waves: ENE 4 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:22AM** and sunset; **6:41PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **6:47AM; 3.29m, 7:15PM; 3.09m**
- Low Tide: **00:35AM; 0.63m, 1:00PM;045m**

### **iii. KILIFI**

- Morning Winds: NNE 10 to 11 knots.
- Morning Waves: ENE 5 feet at 9 seconds.
- Morning sea state: Breezy NNE winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: E 14 to 18 knots.
- Afternoon Waves: ENE 5feet at 9 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:21AM** and sunset; **6:40PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:37AM; 3.02m, 7:05PM;2.82m**
- Low Tide: **00:27AM; 0.48m, 12:51PM;0.29m**

### **iv. LAMU**

- Morning Winds: NE 2 knots.
- Morning Waves: E 4 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 10 to 16 knots.
- Afternoon Waves: E 4 feet at 9 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:19AM** and Sunset; **6:34PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:36AM; 2.91m, 7:06PM;2.7m**
- Low Tide: **00:28AM; 0.47m, 12:53PM;026m**

### **Advisory**

- Slight to moderate sea conditions are expected with a significant wave height of 1.2-1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02-18knots) expected in Kwale, Mombasa, Kilifi and Lamu throughout the forecast period.

### **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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