



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

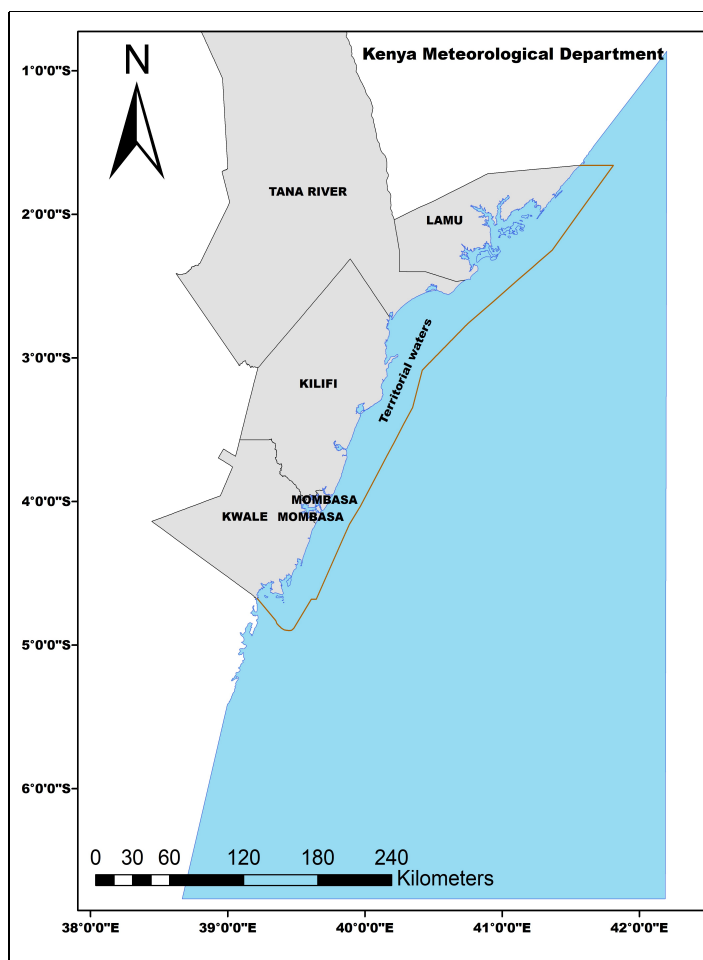
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

**Issued at: 1500 EAT on 11<sup>th</sup> February, 2025**

**Valid: 0000 EAT on 12<sup>th</sup> February 2025 to 0000 EAT on 13<sup>th</sup> February 2025**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light to breezy N to NE winds (07-18 knots) with slight to moderate choppy seas. E to ENE waves of 4-6ft (1.2-1.8m) with small period waves of (6-7sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Breezy to moderately strong E to NE winds (12-21 knots) with choppy seas. ESE waves of 4-5feet (1.2-1.5m) with small period waves of (13-14sec) 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 8 to 14 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 16 to 20 knots.
- Afternoon Waves: ESE 4 feet at 13 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small mid period waves.
- Sunrise; **6:28AM** and sunset; **6:44PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **4:15AM; 3.59m, 4:41PM; 3.2m**
- Low Tide: **10:37AM; 0.33m, 10:36PM; 0.49m**

### **ii. MOMBASA**

- Morning Winds: NNE 9 to 14 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Light NNE winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 15 to 17 knots.
- Afternoon Waves: ESE 4 feet at 14 seconds.
- Afternoon sea state: Breezy NE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:28AM** and sunset; **6:42PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **4:23AM; 3.46m, 4:48PM; 3.12m**
- Low Tide: **10:41AM; 0.4m, 10:40PM; 0.54m**

### **iii. KILIFI**

- Morning Winds: NE 14 to 16 knots.
- Morning Waves: ENE 6 feet at 7 seconds.
- Morning sea state: Breezy NE winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: NE 14 to 16 knots.
- Afternoon Waves: ESE 5 feet at 13 seconds.
- Afternoon sea state: Breezy NE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:27AM** and sunset; **6:41PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:13AM; 3.18m, 4:40PM; 2.84m**
- Low Tide: **10:33AM; 0.19m, 10:32PM; 0.35m**

### **iv. LAMU**

- Morning Winds: NE 7 to 18 knots.
- Morning Waves: E 5 feet at 6 seconds.
- Morning sea state: Light NE winds with a slight chop. Small very short period waves.
- Afternoon Winds: E 12 to 21 knots.
- Afternoon Waves: ESE 5 feet at 13 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:25AM** and Sunset; **6:36PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:13AM; 3.06m, 4:41PM; 2.7m**
- Low Tide: **10:35AM; 0.17m, 10:33PM; 0.34m**

### Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 1.2-1.8m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (07-21knots) 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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