



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

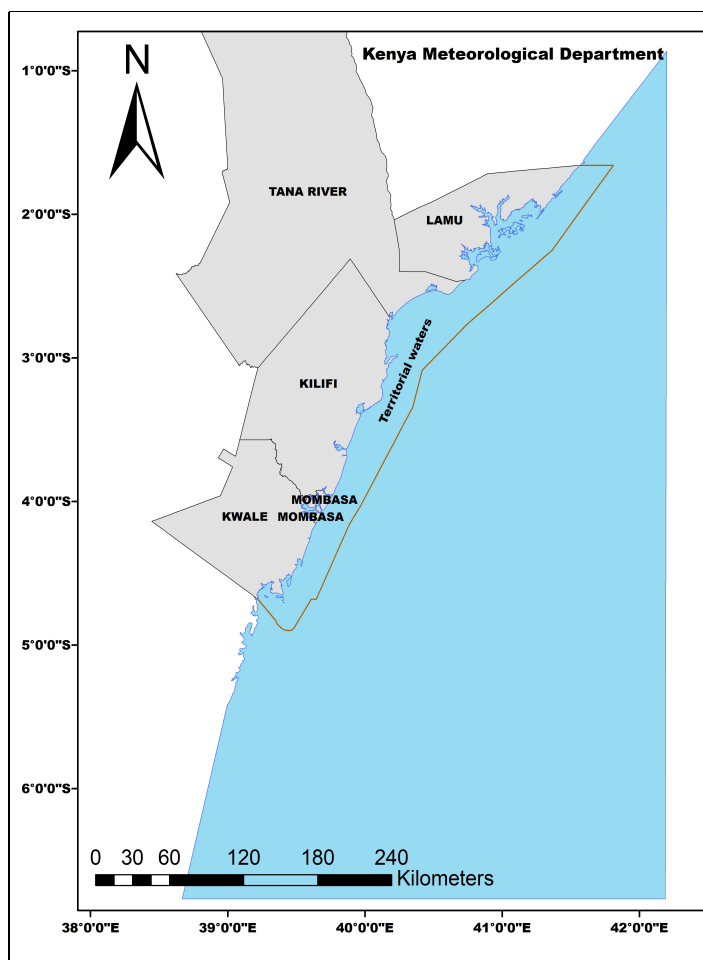
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

**Issued at: 1500 EAT on 14<sup>th</sup> February, 2025**

**Valid: 0000 EAT on 15<sup>th</sup> February 2025 to 0000 EAT on 16<sup>th</sup> February 2025**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light NE to NNE winds (02-06 knots) with slight choppy seas. SE to ESE waves of 3-4ft (0.9-1.2m) with small period waves of (8-12sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Breezy E to ENE winds (11-19 knots) with moderate choppy seas. ESE waves of 3-4feet (0.9-1.2m) with small period waves of (11sec) 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: NNE 5 to 6 knots.
- Morning Waves: ESE 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ENE 16 to 19 knots.
- Afternoon Waves: ESE 3 feet at 11 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small mid period waves.
- Sunrise; **6:29AM** and sunset; **6:44PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:49AM; 3.61m, 6:06PM; 3.44m**
- Low Tide: **11:58AM; 0.27m**

### **ii. MOMBASA**

- Morning Winds: NNE 5 to 6 knots.
- Morning Waves: ESE 3 feet at 12 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: ENE 14 to 15 knots
- Afternoon Waves: ESE 3 feet at 11 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:28AM** and sunset; **6:42PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:54AM; 3.48m, 6:14PM; 3.41m**
- Low Tide: **12:01PM; 0.27m**

### **iii. KILIFI**

- Morning Winds: NE 6 knots.
- Morning Waves: SE 4 feet at 12 seconds.
- Morning sea state: Light NE winds with a slight chop. Small mid period waves.
- Afternoon Winds: E 15 to 17 knots.
- Afternoon Waves: ESE 4 feet at 11 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:27AM** and sunset; **6:41PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:44AM; 3.21m, 6:04PM; 3.13m**
- Low Tide: **11:52AM; 0.1m**

### **iv. LAMU**

- Morning Winds: NNE 2 to 3 knots.
- Morning Waves: ESE 3 feet at 12 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 11 to 16 knots.
- Afternoon Waves: ESE 4 feet at 11 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: **5:44AM; 3.08m, 6:05PM; 3m**
- Low Tide: **11:54AM; 0.08m**

### Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 0.9-1.2m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02-19 knots) 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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