



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

**STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE**  
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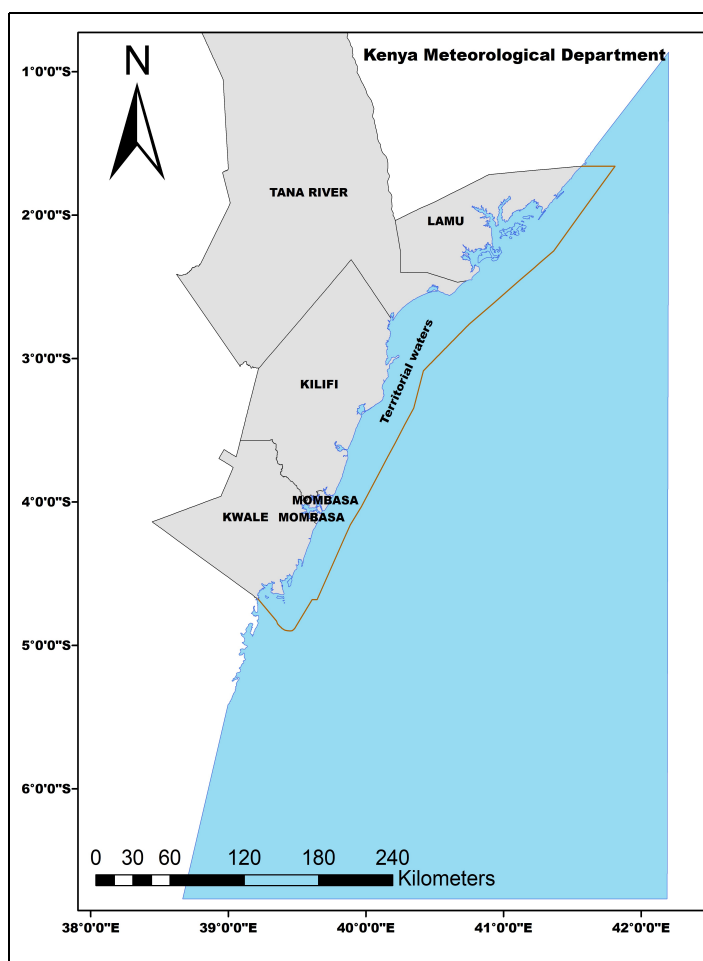
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

**Issued at: 1500 EAT on 7<sup>th</sup> March, 2025**

**Valid: 0000 EAT on 8<sup>th</sup> March 2025 to 0000 EAT on 9<sup>th</sup> March 2025**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (02-07 knots) with slight choppy seas. ESE waves of 2 feet (0.6m) with small period waves of (7-10 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (09-13 knots) with slight choppy seas. ESE waves of 2 feet (0.6m) with small period waves of (7-10 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: SSW 3 knots.
- Morning Waves: ENE 2 feet at 7 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: E 11 to 12 knots.
- Afternoon Waves: ENE 2 feet at 7 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Very small short period waves.
- Visibility: Moderate (**9-10 km**)
- High Tide: **11:23 AM; 2.1m,**
- Low Tide: **04:52AM; 1.4m, 04:44 PM;1.6m**

### **ii. MOMBASA**

- Morning Winds: SSW 5 to 7 knots.
- Morning Waves: SE 2 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small mid period waves.
- Afternoon Winds: ESE 9 to 10 knots.
- Afternoon Waves: ESE 2 feet at 10 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Very small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **11:04 AM; 2.0m,**
- Low Tide: **04:59AM; 1.4m, 04:36PM; 1.5m**

### **iii. KILIFI**

- Morning Winds: SW 5 knots.
- Morning Waves: SE 2 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small mid period waves.
- Afternoon Winds: SE 9 to 10 knots.
- Afternoon Waves: SE 2 feet at 10 seconds.
- Afternoon sea state: Light SE winds with a slight chop. Very small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **11:10AM; 1.7m,**
- Low Tide; **04:59AM; 1.2m, 04:35PM;1.3m**

### **iv. LAMU**

- Morning Winds: ESE 2 to 3 knots.
- Morning Waves: SE 2 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ESE 9 to 13 knots.
- Afternoon Waves: SE 2 feet at 9 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Very small short period waves.
- Sunrise; **00:38AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **11:05 AM; 1.6m,**
- Low Tide: **05:03 AM; 1.1m, 04:31 PM; 1.3m**

### Advisory

- Relatively calm conditions are expected with a significant wave height of 0.6m in Kwale, Mombasa, Kilifi and Lamu.
- Calm breeze to Fresh breeze of (02-13 knots) expected in Kwale, Mombasa, Kilifi and Lamu.

#### 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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**For**  
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