



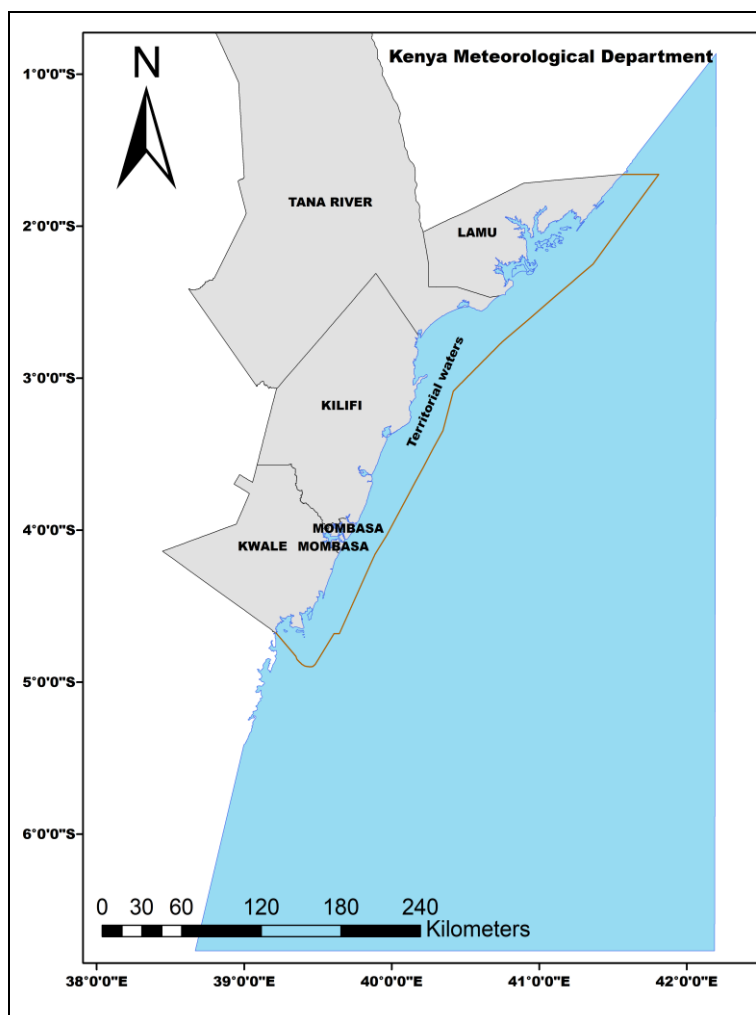
**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT AND FORESTRY**  
**KENYA METEOROLOGICAL DEPARTMENT**

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

**Issued at: 1300 EAT on 1<sup>st</sup> December, 2021**

**Valid: 0000 EAT on 2<sup>nd</sup> December, 2021 to 0000 EAT on 3<sup>rd</sup> December, 2021**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light SE winds (02-09knots) with slight chops. ESE to SSE waves of 3 feet (0.9 m) with very small to small mid period waves of (9-11sec) expected in Kilifi and Lamu.

**Afternoon sea state:**

- Light to breezy predominantly SE winds (09-12 knots) with slight to moderate choppy seas. Predominantly SE waves of 3 feet (0.9 m) with very small short to small short mid period waves of (8-11sec) expected in Kwale, Mombasa, Kilifi and Lamu

**Visibility:**

- Moderate visibility (9-10km) expected in Kwale, Mombasa, Kilifi & Lamu

## **COASTAL COUNTIES MARINE NEAR SHORE FORECAST**

### **i. KWALE**

- Morning Winds: WSW 5 knots.
- Morning Waves: ESE 2 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ESE 10 to 12 knots.
- Afternoon Waves: ESE 3 feet at 8 seconds.
- Afternoon sea state: Breezy ESE winds with moderate choppy seas. Very small short period waves.
- Sunrise; **6:00AM** and sunset; **6:23PM**
- Visibility: Moderate (**10 km**)
- High Tide: **2:18AM; 3.51m, 2:40PM; 3.1m**
- Low Tide: **8:40AM; 0.49m, 8:38PM; 0.45m**

### **ii. MOMBASA**

- Morning Winds: SSW 2 to 3 knots.
- Morning Waves: ESE 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ESE 9 to 11 knots.
- Afternoon Waves: ESE 3 feet at 8 seconds.
- Afternoon Sea State: Light ESE winds with a slight chop. Very small short period waves.
- Sunrise; **6:00AM** and sunset; **6:21PM**
- Visibility: **Moderate (10 km)**
- High Tide: **2:20AM; 3.39m, 2:47PM; 2.96m**
- Low Tide: **8:42AM; 0.44m, 8:37PM; 0.47m**

### **iii. KILIFI**

- Morning Winds: SE 6 knots.
- Morning Waves: ESE 3 feet at 9 seconds.
- Morning sea state: Light SE winds with a slight chop. Very small short period waves.
- Afternoon Winds: SE 11 knots.
- Afternoon Waves: ESE 3 feet at 8 seconds.
- Afternoon Sea State: Breezy SE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:00AM** and sunset; **6:19PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **2:08AM; 3.1m, 2:36PM; 2.66m**
- Low Tide: **8:35AM; 0.32m, 8:29PM; 0.38m**

### **iv. LAMU**

- Morning Winds: ESE 7 to 9 knots..
- Morning Waves: SSE 3 feet at 11 seconds.
- Morning sea state: Light ESE winds with a slight chop. Small mid period waves.
- Afternoon Winds: SE 9 to 11 knots.
- Afternoon Waves: SSE 3 feet at 10 seconds.
- Afternoon sea state: Light SE winds with a slight chop. Very small mid period waves.
- Sunrise; **5:58AM** and sunset; **6:13PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **2:09AM; 2.99m, 2:37PM; 2.52m**
- Low Tide: **8:37AM; 0.31m, 8:28PM; 0.37m**

## 1. Advisory

Slight sea conditions are expected with significant waves height of ( 0.9m), winds of (02-12knots) expected in Kwale, Mombasa ,Kilifi and Lamu.

### KEY ON SEA STATE

WAVE HEIGHT RANGE (Metres)	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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