

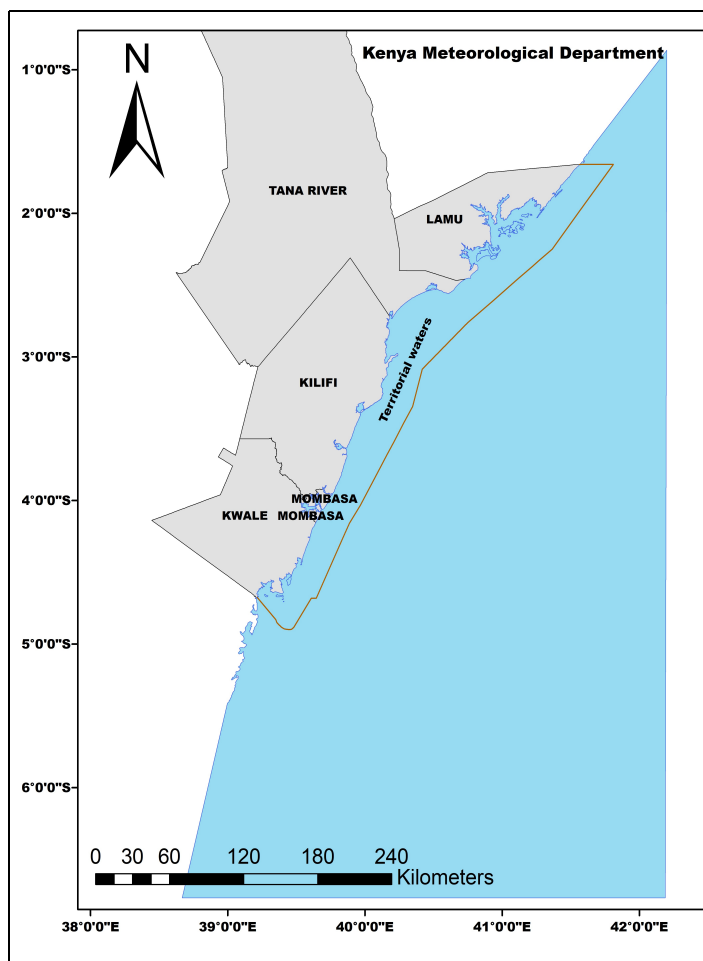


**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
**Issued at: 1500 EAT on 3<sup>rd</sup> December, 2024**  
**Valid: 0000 EAT on 4<sup>th</sup> December 2024 to 0000 EAT on 5<sup>th</sup> December 2024**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light to breezy predominantly N winds (03-011 knots) with slight to moderate choppy seas. ESE waves of 3-4ft (0.9-1.2m) with small period waves of (10-12sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light to breezy E to NE winds (09-18 knots) with slight to moderate choppy seas. ESE waves of 4feet (1.2m) with small period waves of (10-11sec) 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: NNW 6 to 7 knots.
- Morning Waves: ESE 3 feet at 12 seconds.
- Morning sea state: Light NNW winds with a slight chop. Very small mid period waves.
- Afternoon Winds: NE 13 to 18 knots.
- Afternoon Waves: ESE 4 feet at 11 seconds.
- Afternoon sea state: Breezy NE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:01AM** and sunset; **6:24PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:33AM; 3.53m, 6:00PM; 2.85m**
- Low Tide: **12:00PM;0.53m, 11:52PM;0.75m**

### **ii. MOMBASA**

- Morning Winds: NNW 6 to 7 knots.
- Morning Waves: ESE 3 feet at 11 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 11 to 14 knots.
- Afternoon Waves: ESE 4 feet at 11 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:01AM** and sunset; **6:22PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:38AM; 3.47m, 6:09PM; 2.77m**
- Low Tide: **12:01PM; 0.44m, 11:48PM;0.74m**

### **iii. KILIFI**

- Morning Winds: NNE 10 to 11 knots.
- Morning Waves: ESE 4 feet at 11 seconds.
- Morning sea state: Breezy NNE winds with moderate choppy seas. Small mid period waves.
- Afternoon Winds: ENE 12 to 14 knots.
- Afternoon Waves: ESE 4 feet at 11 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:01AM** and sunset; **6:20PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:28AM; 3.17m, 6:00PM;2.49m**
- Low Tide; **11:57AM; 0.29m, 11:44PM;0.6m**

### **iv. LAMU**

- Morning Winds: N 3 to 4 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 9 to 17 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small mid period waves.
- Sunrise; **5:59AM** and sunset; **6:14PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:28AM; 3.06m, 6:01PM;2.36m**
- Low Tide: **12:00PM; 0.26m, 11:44PM;0.58m**

### **Advisory**

- Slight 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 (03-18 knots) expected in Kwale, Mombasa, Kilifi and Lamu.

### **KEY ON SEA STATE**

WAVE HEIGHT RANGE (Meters)	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!!!!
4.1 – 5.5 m (≈ 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 – ≥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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