



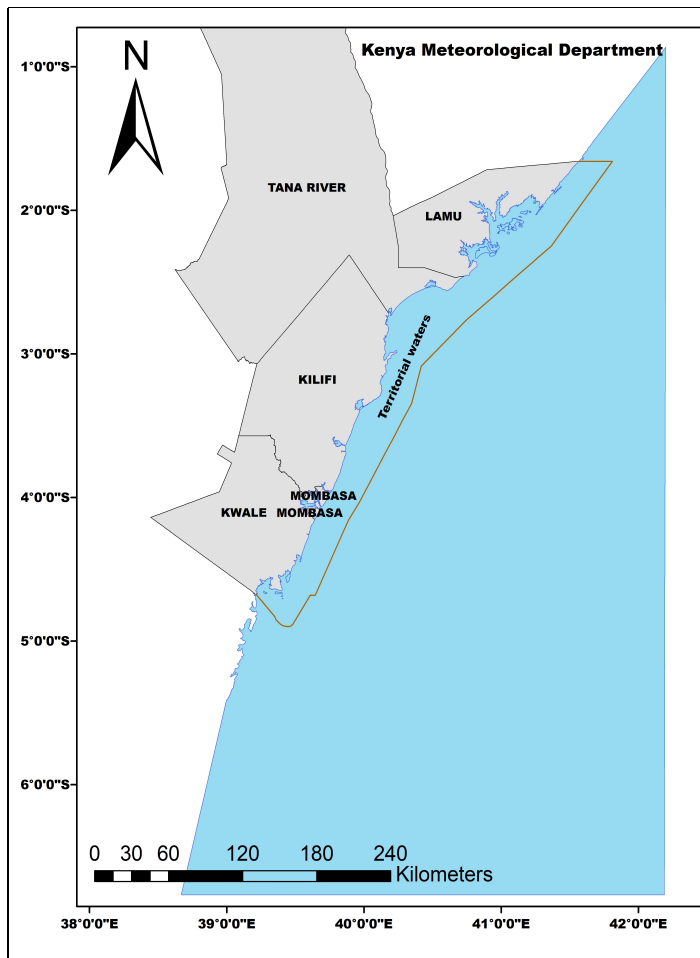
**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
**Issued at: 1500 EAT on 16<sup>th</sup> December, 2024**  
**Valid: 0000 EAT on 17<sup>th</sup> December 2024 to 0000 EAT on 18<sup>th</sup> December 2024**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light NW to NE winds (03-09knots) with slight choppy seas. Predominantly E waves of 3-4ft (0.9-1.2m) with small period waves of (8sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light to breezy E to ENE winds (08-15knots) with slight to moderate choppy seas. ENE to E waves of 3-4feet (0.9-1.2m) with small period waves of (8-9sec) 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: NW 4 to 5 knots.
- Morning Waves: ENE 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ENE 10 to 12 knots.
- Afternoon Waves: ENE 3 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:07AM** and sunset; **6:30PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:00AM; 3.81m, 5:32PM; 3.07m**
- Low Tide: **11:27AM;0.25m, 11:21PM;0.55m**

### **ii. MOMBASA**

- Morning Winds: NNE 3 to 4 knots.
- Morning Waves: E 4 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ENE 8 to 10 knots.
- Afternoon Waves: E 3 feet at 8 seconds.
- Afternoon sea state: Light ENE winds with a slight chop. Small short period waves.
- Sunrise; **6:06AM** and sunset; **6:28PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:08AM; 3.73m, 5:39PM; 2.96m**
- Low Tide: **11:31AM; 0.26m, 11:22PM;0.53m**

### **iii. KILIFI**

- Morning Winds: ENE 9 knots.
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light ENE winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 9 to 10 knots.
- Afternoon Waves: ENE 4 feet at 8 seconds.
- Afternoon sea state: Light ENE winds with a slight chop. Small short period waves.
- Sunrise; **6:06AM** and sunset; **6:27PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:58AM; 3.4m, 5:31PM;2.68m**
- Low Tide: **11:25AM; 0.08m, 11:17PM;0.38m**

### **iv. LAMU**

- Morning Winds: ENE 3 to 4 knots.
- Morning Waves: ESE 4 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 8 to 15 knots.
- Afternoon Waves: E 3 feet at 8 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small short period waves.
- Sunrise; **6:05AM** and Sunset; **6:20PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:58AM; 2.29m, 5:31PM;2.54m**
- Low Tide: **11:28AM; 0.06m, 11:18PM;0.37m**

### 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 (03-15knots) 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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