



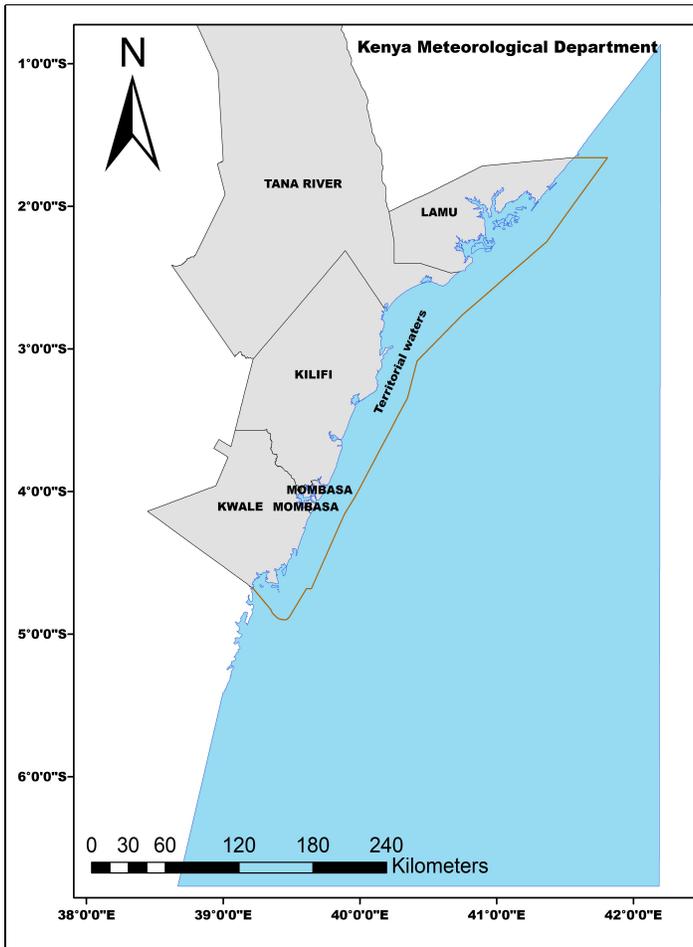
**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
Issued at: 1500 EAT on 14<sup>th</sup> December, 2024  
Valid: 0000 EAT on 15<sup>th</sup> December 2024 to 0000 EAT on 16<sup>th</sup> December 2024



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (02-15 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2 - 1.5m) with small period waves of (11 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (10-22 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2 - 1.5m) with small period waves of (12 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: N 12 to 15 knots.
- Morning Waves: ENE 4 feet at 9 seconds.
- Morning sea state: Breezy N winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: NE 18 to 22 knots.
- Afternoon Waves: ENE 5 feet at 9 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Moderate short period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **03:37AM; 3.8m, 04:08PM; 3.1m**
- Low Tide: **10:06AM;0.2m, 09:59PM;0.5m**

### ii. MOMBASA

- Morning Winds: N 7 to 11 knots
- Morning Waves: ESE 4 feet at 11 seconds.
- Morning sea state: Light N winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 10 to 16 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **03:00AM; 3.6m, 03:32PM; 2.9m**
- Low Tide: **09:28AM; 0.3m, 09:15PM;0.5m**

### iii. KILIFI

- Morning Winds: NNE 12 to 13 knots.
- Morning Waves: ESE 5 feet at 11 seconds.
- Morning sea state: Breezy NNE winds with moderate choppy seas. Small mid period waves.
- Afternoon Winds: ENE 13 to 17 knots.
- Afternoon Waves: E 5 feet at 9 seconds
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **03:33AM; 3.4m, 04:08PM;2.7m**
- Low Tide; **10:04AM; 0.1m, 09:53PM;0.3m**

### iv. LAMU

- Morning Winds: N 2 knots.
- Morning Waves: E 5 feet at 11 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves..
- Afternoon Winds: E 10 to 20 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:55AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **03:33 AM; 3.3m, 04:08 PM;2.5m**
- Low Tide: **10:06 AM; 0.05m, 09:52 PM;0.32m**

### Advisory

- Slight sea conditions are expected with a significant wave height of 1.2m-1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02 - 22 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!!!! 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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