



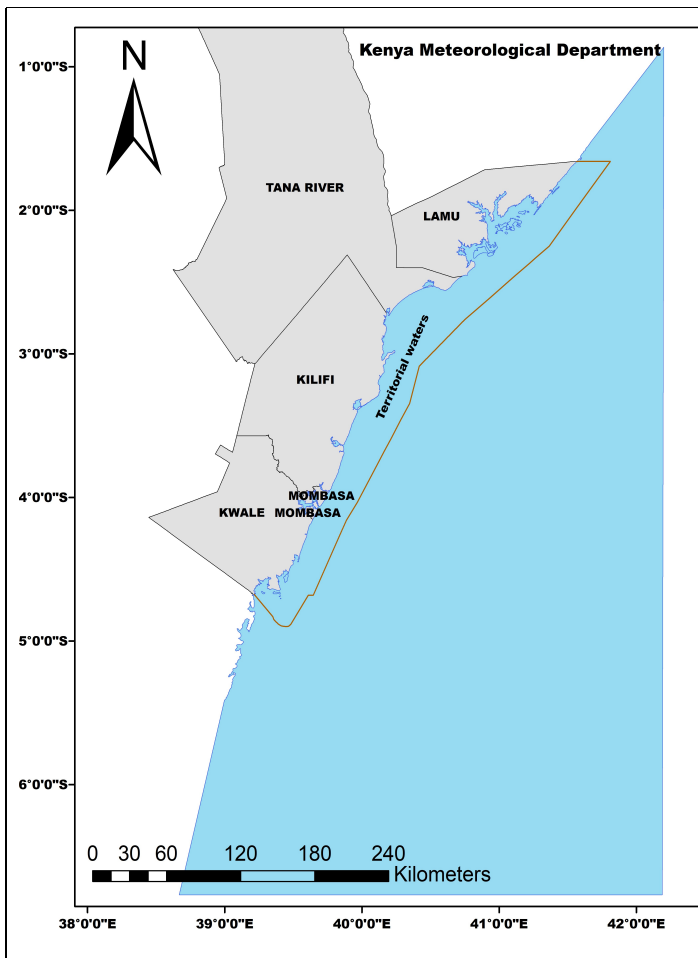
**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**

**KENYA METEOROLOGICAL DEPARTMENT**

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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**  
**Issued at: 1500 EAT on 18<sup>th</sup> December, 2024**  
**Valid: 0000 EAT on 19<sup>th</sup> December 2024 to 0000 EAT on 20<sup>th</sup> December 2024**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (02-06knots) with slight choppy seas. E to ESE waves of 3-4ft (0.9-1.2m) with small period waves of (9sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light ESE winds (07-11knots) with slight choppy seas. ESE to E waves of 3-4feet (0.9-1.2m) with small period waves of (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: WSW 3 knots.
- Morning Waves: E 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ESE 7 to 9 knots.
- Afternoon Waves: E 3 feet at 9 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Small short period waves.
- Sunrise; **6:08AM** and sunset; **6:31PM**
- Visibility: Moderate (9-10 km)
- High Tide: **6:21AM; 3.5m, 6:55PM; 2.86m**
- Low Tide: **00:01AM;0.68m, 12:47PM;0.51m**

### ii. MOMBASA

- Morning Winds: SSW 3 to 5 knots.
- Morning Waves: E 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ESE 7 to 9 knots.
- Afternoon Waves: E 3 feet at 9 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Small short period waves.
- Sunrise; **6:07AM** and sunset; **6:29PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **6:28AM; 3.4m, 7:00PM; 2.82m**
- Low Tide: **00:03AM; 0.65m, 12:49PM;0.5m**

### iii. KILIFI

- Morning Winds: SSE 5 to 6 knots.
- Morning Waves: E 4 feet at 9 seconds.
- Morning sea state: Light SSE winds with a slight chop. Small short period waves.
- Afternoon Winds: ESE 8 to 9 knots.
- Afternoon Waves: E 4 feet at 9 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Small short period waves.
- Sunrise; **6:07AM** and sunset; **6:28PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:18AM; 3.1m, 6:53PM;2.57m**
- Low Tide: **12:42PM; 0.32m**

### iv. LAMU

- Morning Winds: ESE 2 knots.
- Morning Waves: ESE 3 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ESE 7 to 11 knots.
- Afternoon Waves: ESE 3 feet at 9 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Small short period waves.
- Sunrise; **6:05AM** and Sunset; **6:21PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:18AM; 3m, 6:54PM;2.45m**
- Low Tide: **12:45PM; 0.29m**

### 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 (02-11knots) 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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