



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

**KENYA METEOROLOGICAL DEPARTMENT**

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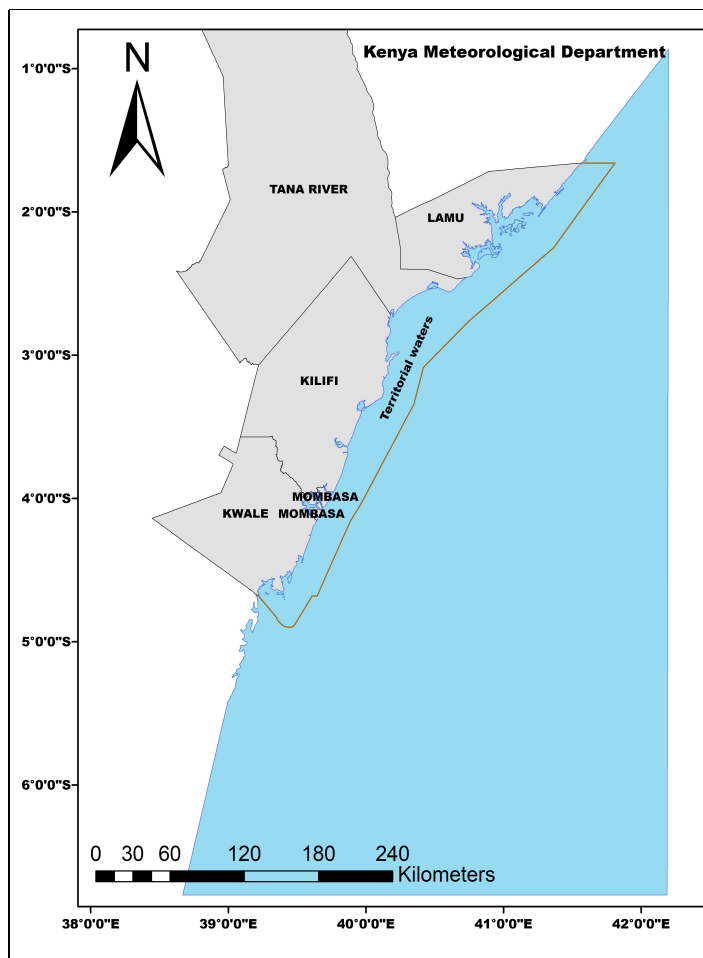
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

Issued at: 1500 EAT on 19<sup>th</sup> February, 2025

Valid: 0000 EAT on 20<sup>th</sup> February 2025 to 0000 EAT on 21<sup>st</sup> February 2025



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (03-15 knots) with slight choppy seas. ESE waves of 5-6 feet (1.5m - 1.8m) with small period waves of (7 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (12-24 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2m - 1.5m) with small period waves of (7 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 13 to 15 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Breezy N winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: ENE 17 to 20 knots.
- Afternoon Waves: ENE 5 feet at 7 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Moderate short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **08.01 AM; 2.5m, 08.37 PM; 2.8m,**
- Low Tide: **02:16AM; 1.1m, 02:05 PM;1.1m**

ii. **MOMBASA**

- Morning Winds: N 8 to 13 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 14 to 17 knots.
- Afternoon Waves: ENE 4 feet at 7 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **08:09AM; 2.5m, 08:41PM; 2.8m,**
- Low Tide: **02:17AM; 1.1m, 02:05PM; 1.1m**

iii. **KILIFI**

- Morning Winds: NNW 5 to 10 knots.
- Morning Waves: ENE 6 feet at 7 seconds.
- Morning sea state: Light and variable winds with smooth seas. Moderate short period waves.
- Afternoon Winds: ENE 13 to 15 knots.
- Afternoon Waves: ENE 5 feet at 7 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Moderate short period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07:51AM; 2.2m, 08:24PM; 2.4m,**
- Low Tide; **02:08AM; 0.9m, 01:52PM;0.9m**

iv. **LAMU**

- Morning Winds: NE 3 knots.
- Morning Waves: E 5 feet at 7 seconds.
- Morning sea state: Light and variable winds with smooth seas. Moderate short period waves.
- Afternoon Winds: E 12 to 24 knots.
- Afternoon Waves: E 5 feet at 6 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **00.38AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07.52 AM; 2.1m, 08.26 PM; 2.4m**
- Low Tide: **02:10 AM; 0.9m, 01:52 PM;0.8m**

### Advisory

- Moderate to rough conditions are expected with a significant wave height of 1.2m – 1.8m in Kwale, Mombasa, Kilifi and Lamu.
- Calm breeze to Strong breeze of (03-24 knots) expected in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised to be cautious while carrying out marine activities

### KEY ON SEA STATE

WAVE HEIGHT RANGE (Meters)	DESCRIPTION	IMPACT
0.6 – 1.0 m ( $\approx$ 1.8 – 3.0 ft)	Slight	Conditions suitable for Marine activities
1.0 – 1.9 m ( $\approx$ 3.0 – 5.7 ft)	Slight - Moderate	
2.0 – 2.9 m ( $\approx$ 6.0 – 8.7 ft)	Moderate-Rough	Caution on operating marine activities
3.0 – 4.0 m ( $\approx$ 9.0 – 12.0 ft)	Rough	Warning in place!!!!
4.1 – 5.5 m ( $\approx$ 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 – $\geq$ 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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