



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

**KENYA METEOROLOGICAL DEPARTMENT**

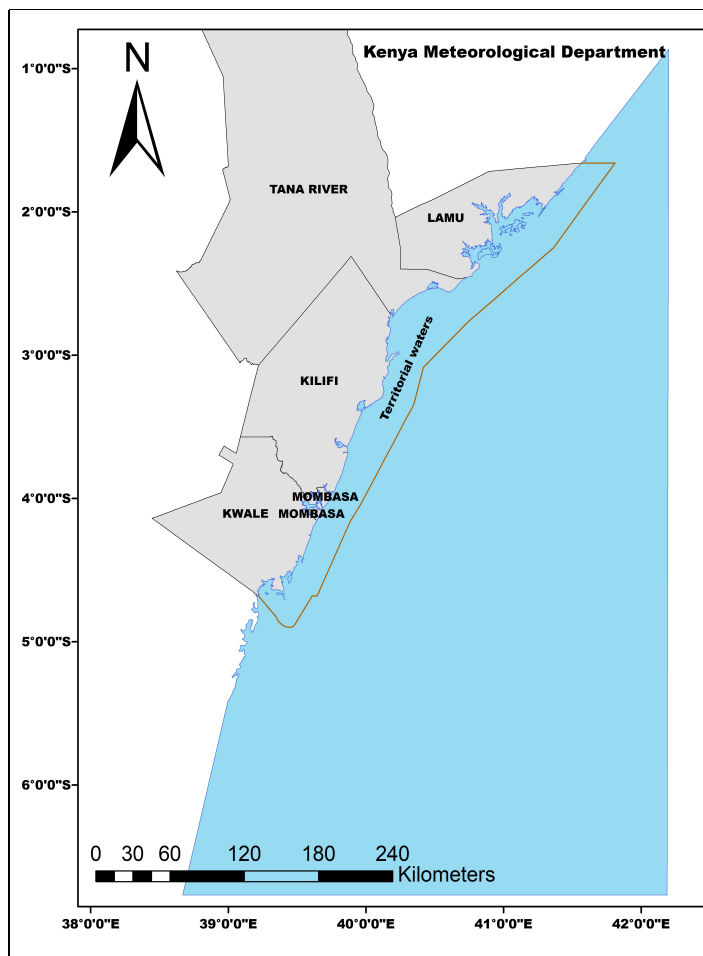
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**DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST**

**Issued at: 1500 EAT on 22<sup>nd</sup> January, 2025**

**Valid: 0000 EAT on 23<sup>rd</sup> January 2025 to 0000 EAT on 24<sup>th</sup> January 2025**



**GENERAL OUTLOOK**

**Morning sea state:**

- Light and variable winds (07-15 knots) with slight choppy seas. ESE waves of 3-4 feet (0.9m -1.2m) with small period waves of (7 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

**Afternoon sea state:**

- Light E to SE winds (13-26 knots) with slight choppy seas. ESE waves of 4 feet (1.2m) 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: NNW 12 to 14 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Breezy NNW winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: ENE 17 to 19 knots.
- Afternoon Waves: ENE 4 feet at 6 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small very short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: 10.24 AM; 2.1m, 11.25 AM; 2.6m
- Low Tide: 04:22 AM; 1.5m, 04:04 PM; 1.4m

ii. **MOMBASA**

- Morning Winds: N 7 to 9 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 13 to 16 knots.
- Afternoon Waves: ENE 4 feet at 8 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: 10:03AM; 2.1m, 11:08PM; 2.6m,
- Low Tide: 04:27AM; 1.4m, 04:06PM; 1.3m

iii. **KILIFI**

- Morning Winds: N 7 to 8 knots.
- Morning Waves: ENE 4 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 14 to 18 knots.
- Afternoon Waves: ENE 4 feet at 8 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: 09:50AM; 1.8m, 11:01PM; 2.3m,
- Low Tide; 04:18AM; 1.3m, 03:50PM; 1.2m

iv. **LAMU**

- Morning Winds: NE 11 to 15 knots.
- Morning Waves: E 3 feet at 6 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small very short period waves.
- Afternoon Winds: E 19 to 26 knots.
- Afternoon Waves: E 4 feet at 5 seconds.
- Afternoon sea state: Moderate to strong E winds with choppy seas. Small very short period waves.
- Sunrise; 00.38AM and sunset; 6:10PM
- Visibility: Moderate (9-10km)
- High Tide: 09.49AM; 1.73m, 11.02 AM; 2.18m,
- Low Tide: 04:23 AM; 1.21m, 03:49 PM; 1.11m

### Advisory

- Slight sea conditions are expected with a significant wave height of 0.9m - 1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light breeze to Strong breeze of (07-26 knots) expected in Kwale, Mombasa, Kilifi and Lamu.

#### 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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For  
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