



MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY
STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE
KENYA METEOROLOGICAL DEPARTMENT

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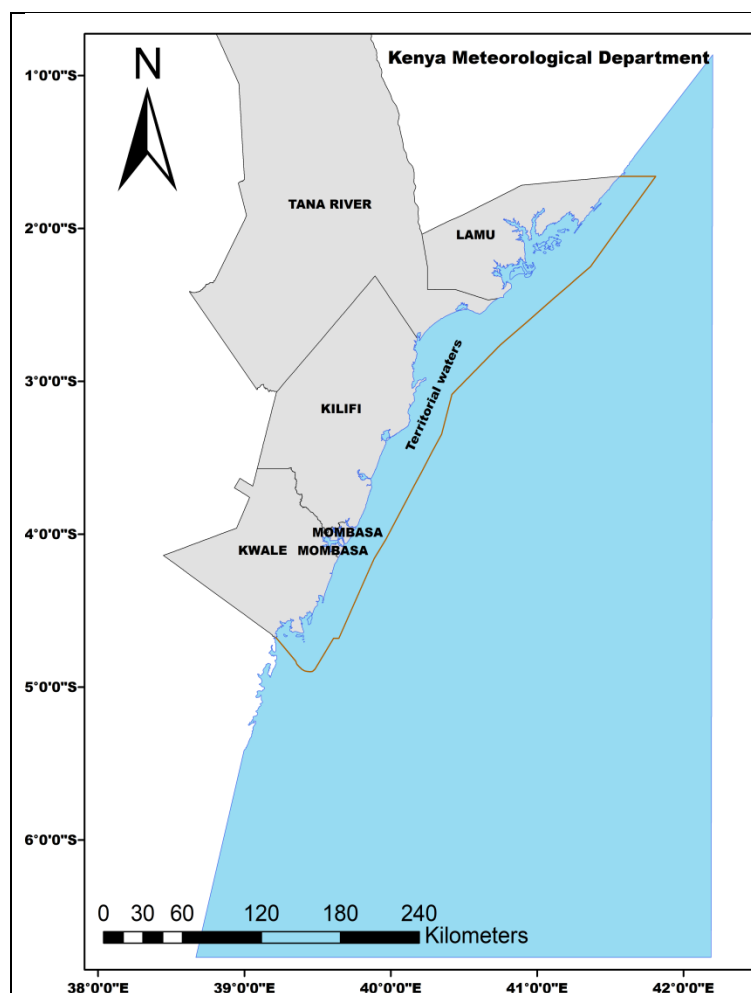
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 14th May 2025

Valid: 0000 EAT on 15th May 2025 to 0000 EAT on 16th May 2025



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (05-23 knots) with slight choppy seas. ESE waves of 5-7 feet (1.5m - 2.1m) with small period waves of (9-sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (09-24 knots) with slight choppy seas. ESE waves of 5-7 feet (1.5m- 2.1m) with small period waves of (9-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: SSW 18 to 20 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Moderate to strong SSW winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 18 to 21 knots.
- Afternoon Waves: ESE 5 feet at 9 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Visibility: Moderate (**9-10 km**)
- High Tide: **05.28AM; 2.9m, 05.36PM; 3.5m,**
- Low Tide: **11:19AM; 0.7m,**

ii. MOMBASA

- Morning Winds: SW 14 to 22 knots.
- Morning Waves: ESE 6 feet at 9 seconds.
- Morning sea state: Breezy SW winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: S 16 to 22 knots.
- Afternoon Waves: ESE 6 feet at 9 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:19AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **05:35 AM; 2.9m, 05:40PM; 3.4m,**
- Low Tide: **11:18AM; 0.7m,**

iii. KILIFI

- Morning Winds: SSW 20 to 23 knots.
- Morning Waves: ESE 7 feet at 9 seconds.
- Morning sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Afternoon Winds: S 20 to 24 knots.
- Afternoon Waves: ESE 7 feet at 9 seconds.
- Afternoon sea state: Strong S winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Sunrise; **6:18AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **05:25AM; 2.5m, 05:30PM; 3.1m,**
- Low Tide: **11:12AM; 0.5m; 11:57PM; 0.4m;**

iv. LAMU

- Morning Winds: SSW 5 to 16 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Moderate short period waves.
- Afternoon Winds: SSW 9 to 20 knots.
- Afternoon Waves: ESE 6 feet at 9 seconds.
- Afternoon sea state: Light SSW winds with a slight chop. Moderate short period waves.
- Sunrise; **06.12AM** and sunset; **6:13PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **05.26 AM; 2.4m, 05.31PM; 3.0m,**
- Low Tide: **11:13AM; 0.5m,**

Advisory

- Moderate to rough conditions are expected with a significant wave height of 1.5m - 2.1m in Kwale, Mombasa, Kilifi and Lamu. Caution in carrying out marine activities.
- Light breeze to Strong breeze of (05-24 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 DIRECTOR,
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