



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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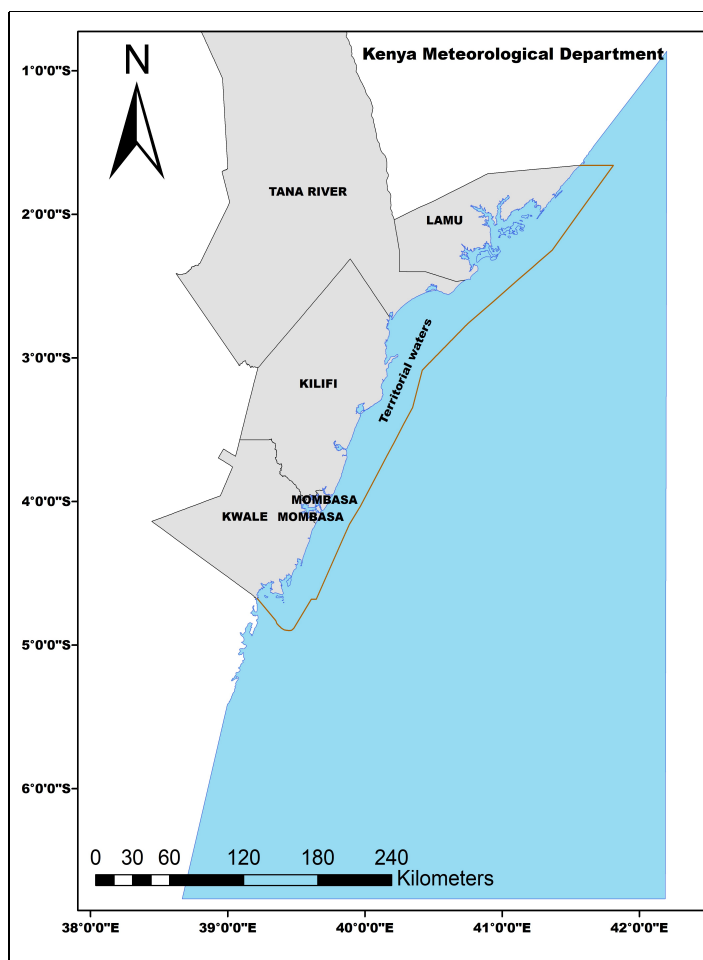
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 13th January, 2025

Valid: 0000 EAT on 14th January 2025 to 0000 EAT on 15th January 2025



GENERAL OUTLOOK

Morning sea state:

- Light to strong N to NE winds (07-21knots) with slight to very choppy seas. E to ENE waves of 5-7ft (1.5-2.1m) with small period waves of (8sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Breezy to moderately strong NE to ENE winds (14-25knots) with moderate choppy to very choppy seas. ENE to E waves of 6-7feet (1.8-2.1m) with small period waves of (8sec) 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 9 to 16 knots.
- Morning Waves: ENE 5 feet at 8 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 18 to 23 knots.
- Afternoon Waves: ENE 6 feet at 8 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Moderate short period waves.
- Sunrise; **6:20AM** and sunset; **6:42PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **4:19AM; 3.67m, 4:51PM; 3.08m**
- Low Tide: **10:47AM;0.31m, 10:41PM;0.56m**

ii. MOMBASA

- Morning Winds: N 11 to 18 knots.
- Morning Waves: ENE 5 feet at 8 seconds.
- Morning sea state: Breezy N winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: NE 18 to 21 knots.
- Afternoon Waves: ENE 6 feet at 8 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Moderate short period waves.
- Sunrise; **6:20AM** and sunset; **6:40PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **4:26AM; 3.58m, 4:58PM; 2.98m**
- Low Tide: **10:51AM; 0.36m, 10:43PM;0.57m**

iii. KILIFI

- Morning Winds: NNE 20 to 21 knots.
- Morning Waves: ENE 7 feet at 8 seconds.
- Morning sea state: Strong NNE winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Afternoon Winds: ENE 19 to 22 knots.
- Afternoon Waves: ENE 7 feet at 8 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Moderate short period waves.
- Sunrise; **6:20AM** and sunset; **6:39PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:17AM; 3.28m, 4:50PM;2.69m**
- Low Tide: **10:44AM; 0.15m, 10:36PM;0.39m**

iv. LAMU

- Morning Winds: NE 7 to 20 knots.
- Morning Waves: E 6 feet at 7 seconds.
- Morning sea state: Light NE winds with a slight chop. Moderate short period waves.
- Afternoon Winds: ENE 14 to 25 knots.
- Afternoon Waves: E 7 feet at 7 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Moderate short period waves.
- Sunrise; **6:18AM** and Sunset; **6:33PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **4:17AM; 3.16m, 4:50PM;2.55m**
- Low Tide: **10:46AM; 0.13m, 10:36PM;0.37m**

Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 1.5-2.1m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (07-25knots) expected in Kwale, Mombasa, Kilifi and Lamu throughout the forecast period. Small boats and crafts are advised to be cautious while venturing into deep sea in Kilifi and Lamu in the afternoon.

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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