



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

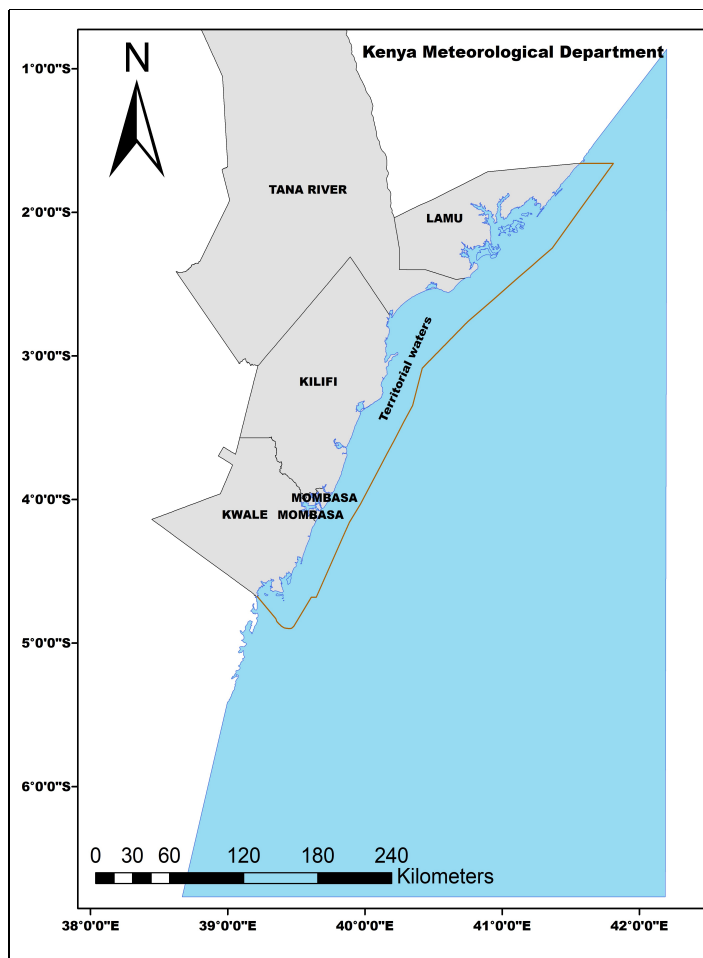
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 15th January, 2025

Valid: 0000 EAT on 16th January 2025 to 0000 EAT on 17th January 2025



GENERAL OUTLOOK

Morning sea state:

- Light to breezy NW to NE winds (03-13knots) with slight to moderate choppy seas. E to ENE waves of 4-6ft (1.2-1.8m) with small period waves of (8sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Breezy E to ENE winds (11-21knots) with moderate choppy seas. ENE to E waves of 4-6feet (1.2-1.8m) with small period waves of (6-8sec) 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: NW 6 to 8 knots.
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light NW winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 12 to 15 knots.
- Afternoon Waves: ENE 4 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:21AM** and sunset; **6:43PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:35AM; 3.68m, 6:02PM; 3.18m**
- Low Tide: **11:55AM;0.28m, 11:55PM;0.53m**

ii. MOMBASA

- Morning Winds: NNW 5 to 7 knots.
- Morning Waves: ENE 5 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: ENE 11 to 12 knots.
- Afternoon Waves: ENE 4 feet at 9 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:21AM** and sunset; **6:41PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:41AM; 3.56m, 6:09PM; 3.13m**
- Low Tide: **11:58AM; 0.31m, 11:59PM;0.56m**

iii. KILIFI

- Morning Winds: NE 12 to 13 knots.
- Morning Waves: ENE 6 feet at 8 seconds.
- Morning sea state: Breezy NE winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: ENE 12 to 13 knots.
- Afternoon Waves: ENE 5 feet at 8 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:20AM** and sunset; **6:39PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:32AM; 3.28m, 6:00PM;2.85m**
- Low Tide: **11:51AM; 0.11m, 11:52PM;0.39m**

iv. LAMU

- Morning Winds: ENE 3 to 8 knots.
- Morning Waves: E 5 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 11 to 21 knots.
- Afternoon Waves: E 6 feet at 6 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **6:19AM** and Sunset; **6:33PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:31AM; 3.16m, 6:01PM;2.71m**
- Low Tide: **11:53AM; 0.1m, 11:52PM;0.38m**

Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 1.2-1.8m in Kwale, Mombasa, Kilifi and Lamu.
- Light to fresh breeze of (03-21knots) 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 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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