



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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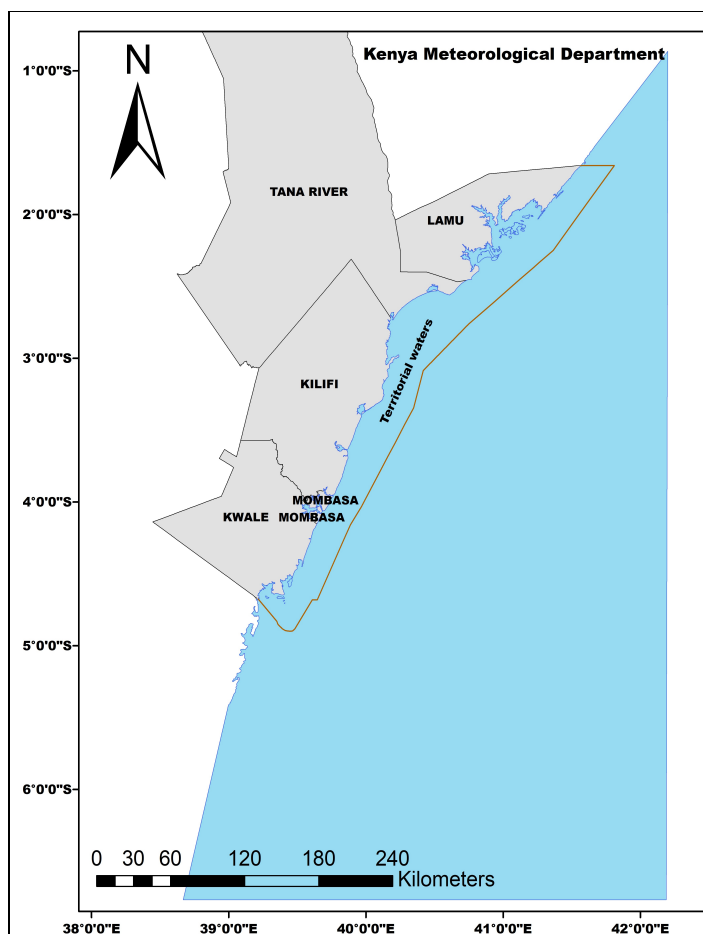
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 7th December 2023

Valid: 0000 EAT on 8th December, 2023 to 0000 EAT on 9th December, 2023



GENERAL OUTLOOK

Morning sea state:

- Light N to NE winds (02-07 knots) with smooth seas. Predominantly E waves of 3ft (0.9m) with very small-short period waves of (7-8sec) expected Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light to breezy predominantly ENE to ESE winds (07-14 knots) with slight to moderate choppy seas. Predominantly E waves of 2-3feet (0.6-0.9m) with very small-short period waves of (7-8sec) 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 3 knots.
- Morning Waves: ENE 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ENE 10 to 11 knots.
- Afternoon Waves: ENE 2 feet at 8 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Very small short period waves.
- Sunrise; **6:02AM** and sunset; **6:25PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **00:51AM; 2.76m, 1:13PM; 2.53m**
- Low Tide: **7:15AM;1.21m, 7:08PM;1.12m**

ii. MOMBASA

- Morning Winds: ENE 2 to 4 knots.
- Morning Waves: E 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ENE 8 to 10 knots.
- Afternoon Waves: E 2 feet at 8 seconds.
- Afternoon sea state: Light ENE winds with a slight chop. Very small short period waves.
- Sunrise; **6:02AM** and sunset; **6:25PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **00:52AM; 2.63m, 1:10PM; 2.37m**
- Low Tide: **7:15AM; 1.21m, 7:08PM;1.07m**

iii. KILIFI

- Morning Winds: ENE 7 knots.
- Morning Waves: ENE 3 feet at 8 seconds.
- Morning sea state: Light ESE winds with a slight chop. Small short period waves.
- Afternoon Winds: E 9 to 10 knots.
- Afternoon Waves: ENE 3 feet at 8 seconds.
- Afternoon sea state: Light E winds with a slight chop. Very small short period waves.
- Sunrise; **6:02AM** and sunset; **6:22PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:44AM; 2.41m, 1:05PM; 2.12m**
- Low Tide; **7:10AM; 1.07m, 6:57PM;0.97m**

iv. LAMU

- Morning Winds: NE 2 knots.
- Morning Waves: ESE 3 feet at 7 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small short period waves.
- Afternoon Winds: ESE 7 to 14 knots.
- Afternoon Waves: ESE 2 feet at 7 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Very small short period waves.
- Sunrise; **6:00AM** and sunset; **6:16PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:46AM; 2.32m, 1:04PM; 2.01m**
- Low Tide: **7:13AM; 1.03m, 6:57PM; 0.92m**

Advisory

- Slight to moderate sea condition expected with significant wave height 0.6-0.9m Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02-14knots) expected in Kwale, Mombasa, 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.

Dr. David Gikungu
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