



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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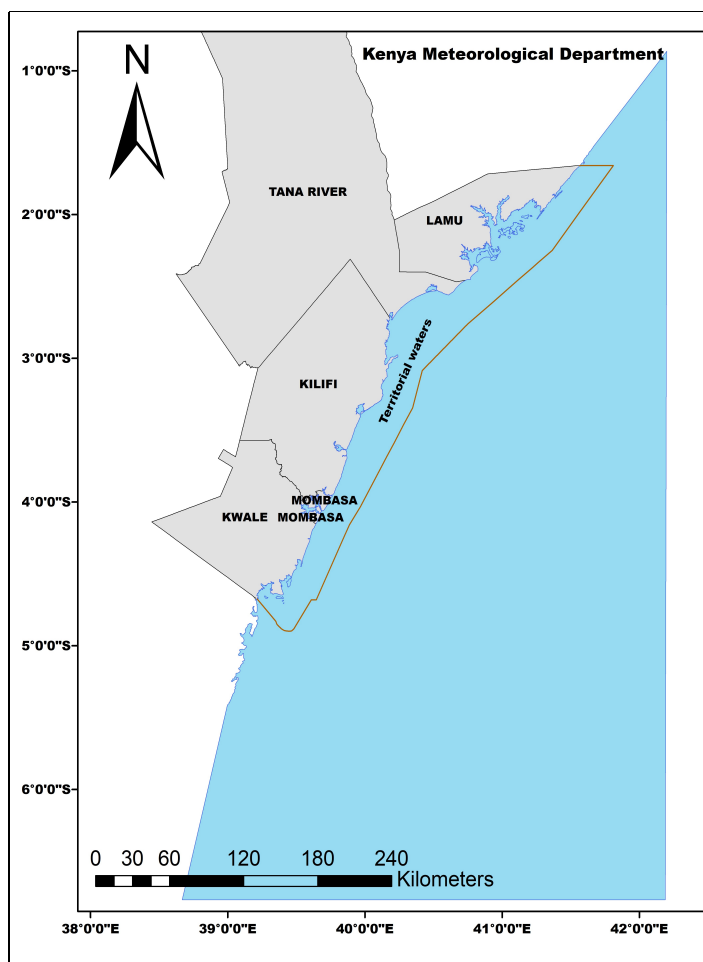
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 1st October 2023

Valid: 0000 EAT on 2nd October, 2023 to 0000 EAT on 3rd October, 2023



GENERAL OUTLOOK

Morning sea state:

- Light to breezy predominantly S winds (05-13knots) with slight to moderate choppy seas. ESE waves of 5ft (1.5m) with small-short period waves of (9sec) expected Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light to breezy SSE winds (08-15knots) with slight to moderate choppy seas. ESE waves of 4feet (1.2m) with small-short period waves of (9sec) 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 5 to 9 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Light SSW winds with a slight chop. Small short period waves.
- Afternoon Winds: SSE 8 to 11 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Light SSE winds with a slight chop. Small short period waves.
- Sunrise; **6:07AM** and sunset; **6:16PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:35AM; 3.96m, 5:55PM; 3.48m**
- Low Tide: **11:50AM; 0.04m, 11:53PM; 0.22m**

ii. MOMBASA

- Morning Winds: S 9 to 12 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Light S winds with a slight chop. Small short period waves.
- Afternoon Winds: SSE 10 to 14 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:06AM** and sunset; **6:14PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:43AM; 3.88m, 6:03PM; 3.32m**
- Low Tide: **11:55AM; -0.01m, 11:55PM; 0.16m**

iii. KILIFI

- Morning Winds: S 12 to 13 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: SSE 13 to 15 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:05AM** and sunset; **6:14PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:31AM; 3.64m, 5:51PM; 3.05m**
- Low Tide: **11:47AM; -0.1m, 11:46PM; 0.07m**

iv. LAMU

- Morning Winds: SSE 5 to 9 knots.
- Morning Waves: ESE 5 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: SSE 8 to 14 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Light SSE winds with a slight chop. Small short period waves.
- Sunrise; **6:02AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:32AM; 3.52m, 5:51PM; 2.91m**
- Low Tide: **11:49AM; -0.09m, 11:47PM; 0.06m**

Advisory

- Slight to moderate sea condition expected with significant wave height 1.2-1.5m Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (05-15knots) 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!!!! Warning in place and marine activities on hold
4.1 – 5.5 m (\approx 12.3 – 16.5 ft)	Very Rough	

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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