



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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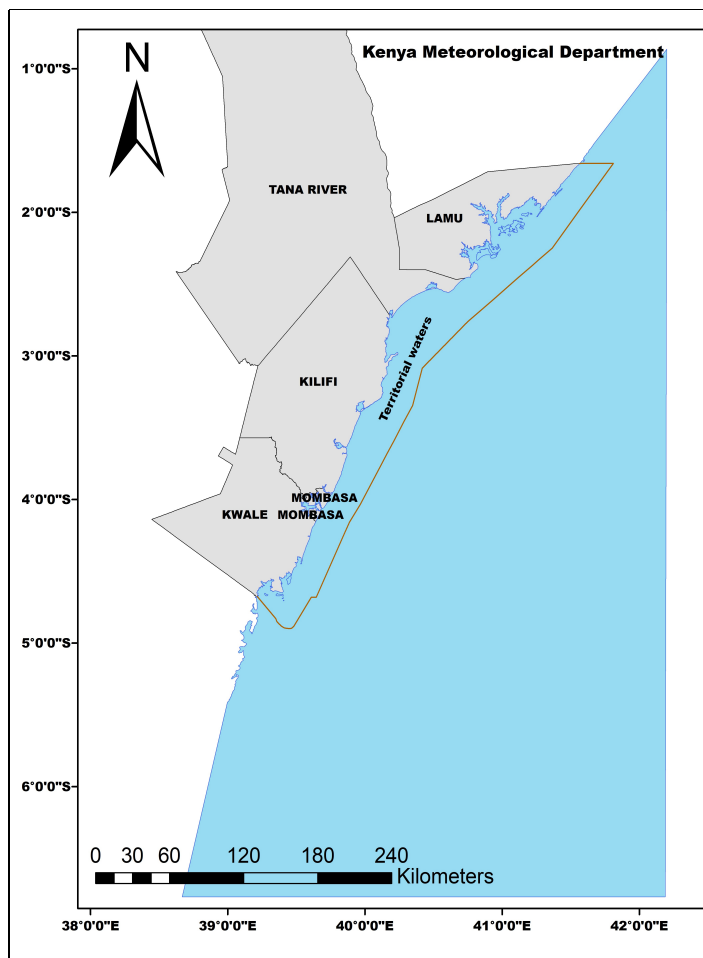
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 11th March, 2025

Valid: 0000 EAT on 12th March 2025 to 0000 EAT on 13th March 2025



GENERAL OUTLOOK

Morning sea state:

- Light N to NE winds (03-08 knots) with slight choppy seas. ESE waves of 3-4ft (0.9-1.2m) with small period waves of (10sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light to moderately strong E to ENE winds (09-17 knots) with slight to moderate choppy seas. ESE waves of 3feet (0.9m) with small period waves of (10sec) 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 6 to 8 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light N winds with a slight chop. Very small mid period waves.
- Afternoon Winds: ENE 15 to 17 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small mid period waves.
- Sunrise; **6:27AM** and sunset; **6:36PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **3:26AM; 3.32m, 3:51PM; 3.13m**
- Low Tide: **9:48AM; 0.53m, 9:51PM; 0.6m**

ii. MOMBASA

- Morning Winds: NNE 5 to 7 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light NNE winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 12 to 15 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:26AM** and sunset; **6:35PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **3:35AM; 3.18m, 3:59PM; 3.06m**
- Low Tide: **9:51AM; 0.61m, 9:56PM; 0.66m**

iii. KILIFI

- Morning Winds: NE 7 knots.
- Morning Waves: ESE 4 feet at 10 seconds.
- Morning sea state: Light NE winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 12 to 13 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:25AM** and sunset; **6:34PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **3:26AM; 2.91m, 3:51PM; 2.79m**
- Low Tide: **9:43AM; 0.39m, 9:47PM; 0.47m**

iv. LAMU

- Morning Winds: ENE 3 to 5 knots.
- Morning Waves: ESE 3 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 9 to 15 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small mid period waves.
- Sunrise; **6:22AM** and Sunset; **6:30PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **3:26AM; 2.79m, 3:52PM; 2.66m**
- Low Tide: **9:44AM; 0.36m, 9:48PM; 0.45m**

Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 0.9-1.2m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (03-17 knots) expected in Kwale, Mombasa Kilifi and Lamu throughout the forecast period.

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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