



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

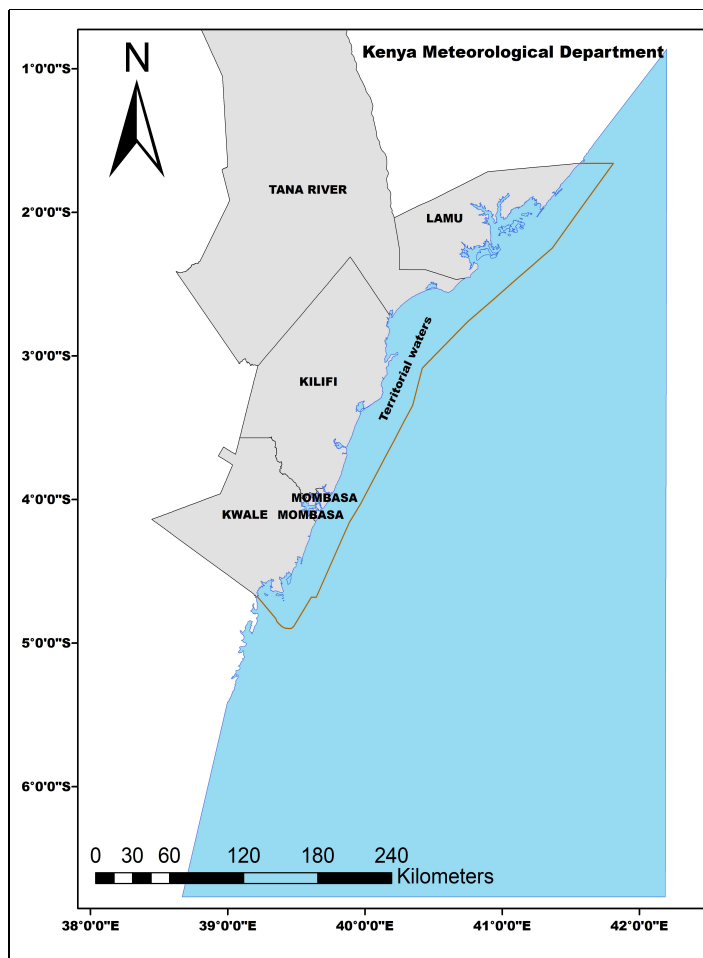
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 10th March, 2025

Valid: 0000 EAT on 11th March 2025 to 0000 EAT on 12th March 2025



GENERAL OUTLOOK

Morning sea state:

- Light to breezy N to NE winds (02-14 knots) with slight to moderate choppy seas. SE to ESE waves of 3-4ft (0.9-1.2m) with small period waves of (9-10sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Breezy to moderately strong E to NE winds (11-20 knots) with slight to moderate choppy seas. SE to ESE waves of 4feet (1.2m) with small period waves of (9sec) 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 8 to 14 knots.
- Morning Waves: ESE 3 feet at 9 seconds.
- Morning sea state: Light N winds with a slight chop. Very small short period waves.
- Afternoon Winds: NE 17 to 20 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small short period waves.
- Sunrise; **6:28AM** and sunset; **6:36PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **2:46AM; 3.09m, 3:20PM; 2.87m**
- Low Tide: **9:18AM; 0.74m, 9:17PM; 0.86m**

ii. MOMBASA

- Morning Winds: N 9 to 14 knots.
- Morning Waves: SE 3 feet at 9 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 16 to 18 knots.
- Afternoon Waves: ESE 4 feet at 9 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small short period waves.
- Sunrise; **6:27AM** and sunset; **6:35PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **2:55AM; 2.98m, 3:27PM; 2.78m**
- Low Tide: **9:22AM; 0.82m, 9:22PM; 0.89m**

iii. KILIFI

- Morning Winds: N 11 to 12 knots.
- Morning Waves: SE 4 feet at 9 seconds.
- Morning sea state: Breezy N winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: NE 16 to 17 knots.
- Afternoon Waves: SE 4 feet at 9 seconds.
- Afternoon sea state: Moderate to strong NE winds with choppy seas. Small short period waves.
- Sunrise; **6:26AM** and sunset; **6:34PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **2:48AM; 2.7m, 3:22PM; 2.52m**
- Low Tide: **9:14AM; 0.58m, 9:14PM; 0.69m**

iv. LAMU

- Morning Winds: NE 2 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 11 to 18 knots.
- Afternoon Waves: SE 4 feet at 9 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:22AM** and Sunset; **6:30PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **2:48AM; 2.59m, 3:23PM; 2.4m**
- Low Tide: **9:15AM; 0.55m, 9:14PM; 0.67m**

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 (02-20 knots) 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 Kwale.

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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