



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

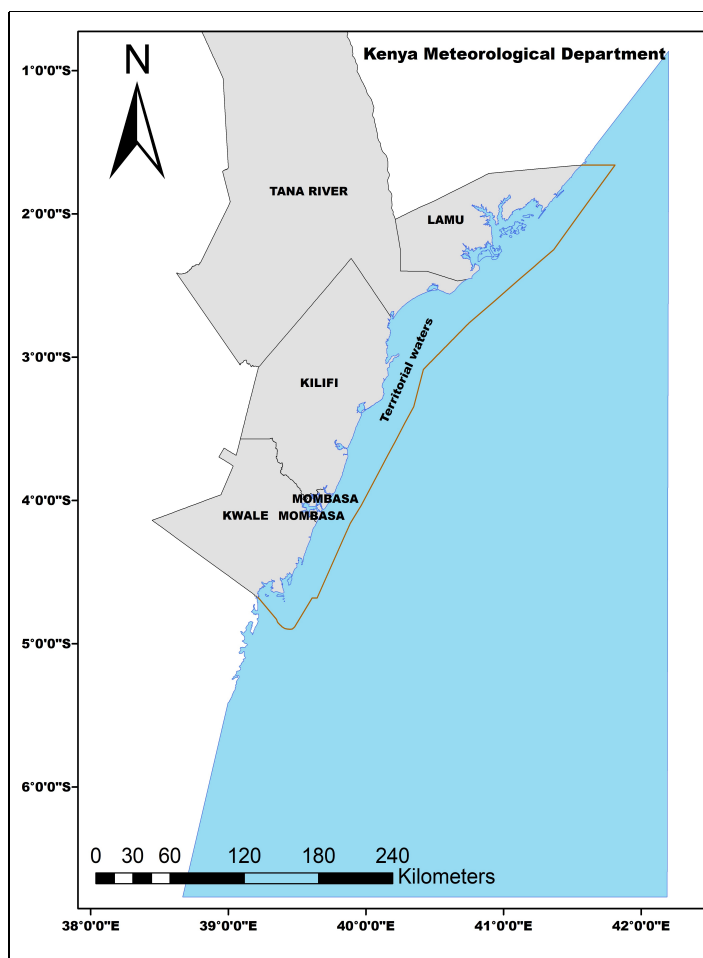
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 20th February, 2025

Valid: 0000 EAT on 21st February 2025 to 0000 EAT on 22nd February 2025



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (05-12 knots) with slight choppy seas. ESE waves of 5 feet (1.5m) with small period waves of (7 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (11-24 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2m - 1.5m) with small period waves of (7 sec) 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 7 to 9 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Light N winds with a slight chop. Small short period waves.
- Afternoon Winds: NE 21 to 24 knots.
- Afternoon Waves: ENE 5 feet at 7 seconds.
- Afternoon sea state: Strong NE winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **08.37 AM; 2.2m, 09.48 PM; 2.5m,**
- Low Tide: **03:04AM; 1.4m, 02:44 PM;1.4m**

ii. MOMBASA

- Morning Winds: NNE 6 to 8 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Light NNE winds with a slight chop. Small short period waves
- Afternoon Winds: ENE 15 to 17 knots.
- Afternoon Waves: ESE 4 feet at 12 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **08:46AM; 2.2m, 09:37PM; 2.6m,**
- Low Tide: **03:03AM; 1.4m, 02:39PM; 1.3m**

iii. KILIFI

- Morning Winds: NNE 8 to 9 knots.
- Morning Waves: ENE 5 feet at 7 seconds.
- Morning sea state: Light NNE winds with a slight chop. Moderate short period waves.
- Afternoon Winds: ENE 14 to 16 knots.
- Afternoon Waves: ENE 5 feet at 7 seconds
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **08:23AM; 1.9m, 09:19PM; 2.2m,**
- Low Tide; **02:53AM; 1.2m, 02:21PM;1.1m**

iv. LAMU

- Morning Winds: ENE 5 to 12 knots.
- Morning Waves: E 5 feet at 6 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small very short period waves.
- Afternoon Winds: E 11 to 19 knots.
- Afternoon Waves: E 5 feet at 6 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Moderate very short period waves.
- Sunrise; **00.38AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **08.24 AM; 1.8m, 09.22 PM; 2.2m**
- Low Tide: **02:57 AM; 1.1m, 02:20 PM; 1.1m**

Advisory

- Moderate to rough conditions are expected with a significant wave height of 1.2m – 1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Calm breeze to Strong breeze of (05-24 knots) expected in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised to be cautious while carrying out marine activities 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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For
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