



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

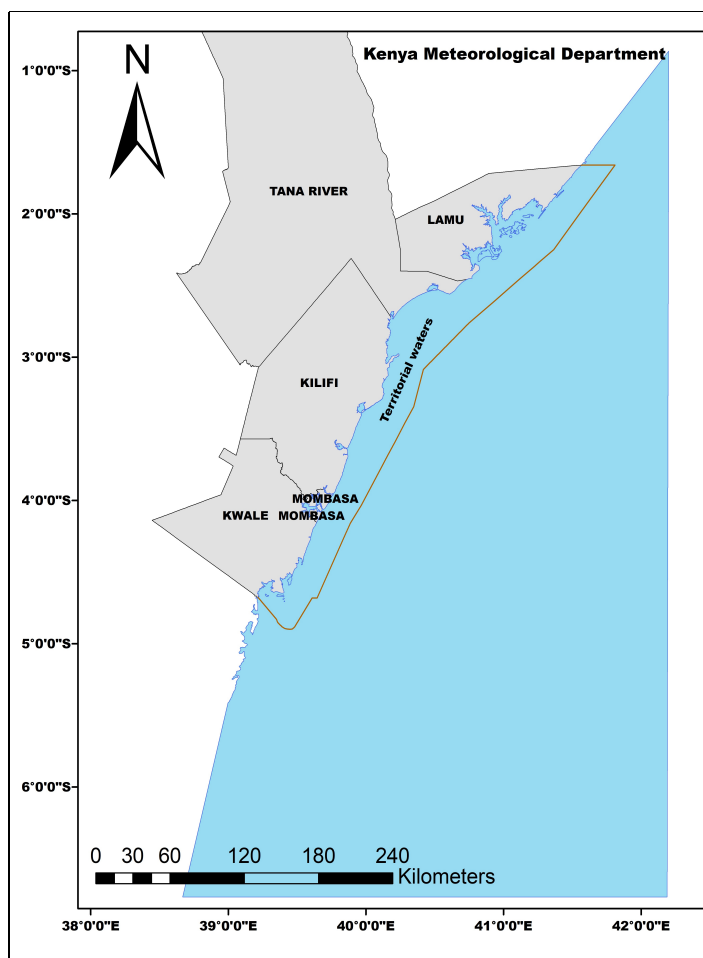
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 4th March, 2025

Valid: 0000 EAT on 5th March 2025 to 0000 EAT on 6th March 2025



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (01-07 knots) with slight choppy seas. ESE waves of 2-3 feet (0.6m - 0.9m) with small period waves of (6-12 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (09-15 knots) with slight choppy seas. ESE waves of 2-3 feet (0.6m - 0.9m) with small period waves of (11 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: NE 3 to 5 knots.
- Morning Waves: NE 2 feet at 6 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small very short period waves.
- Afternoon Winds: E 13 to 14 knots.
- Afternoon Waves: SE 2 feet at 11 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Very small mid period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **07.24 AM; 3.1m, 07.49 PM; 3.4m,**
- Low Tide: **01:23AM; 0.45m, 01:26 PM;0.52m**

ii. **MOMBASA**

- Morning Winds: ENE 1 to 4 knots.
- Morning Waves: SSE 2 feet at 12 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small mid period waves.
- Afternoon Winds: E 10 to 11 knots.
- Afternoon Waves: SSE 2 feet at 11 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Very small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **07:33 AM; 3.0m, 07:58PM; 3.4m,**
- Low Tide: **01:29AM; 0.43m, 01:26PM; 0.5m**

iii. **KILIFI**

- Morning Winds: E 7 knots.
- Morning Waves: SSE 3 feet at 11 seconds.
- Morning sea state: Light E winds with a slight chop. Very small mid period waves.
- Afternoon Winds: E 10 to 11 knots.
- Afternoon Waves: SSE 3 feet at 11 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Very small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07:20AM; 2.7m, 07:44PM; 3.1m,**
- Low Tide; **01:21AM; 0.28m, 01:17PM;0.35m**

iv. **LAMU**

- Morning Winds: ESE 2 knots.
- Morning Waves: S 3 feet at 11 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: ESE 9 to 12 knots
- Afternoon Waves: SSE 3 feet at 11 seconds.
- Afternoon sea state: Light ESE winds with a slight chop. Very small mid period waves.
- Sunrise; **00.38AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07.20 AM; 2.6m, 7.45 PM; 3.0m,**
- Low Tide: **01:24 AM; 0.27m, 01:18 PM; 0.32m**

Advisory

- Relatively calm conditions are expected with a significant wave height of 0.6m – 0.9m in Kwale, Mombasa, Kilifi and Lamu.
- Calm breeze to Gentle breeze of (01-15 knots) 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!!!! |
| 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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