

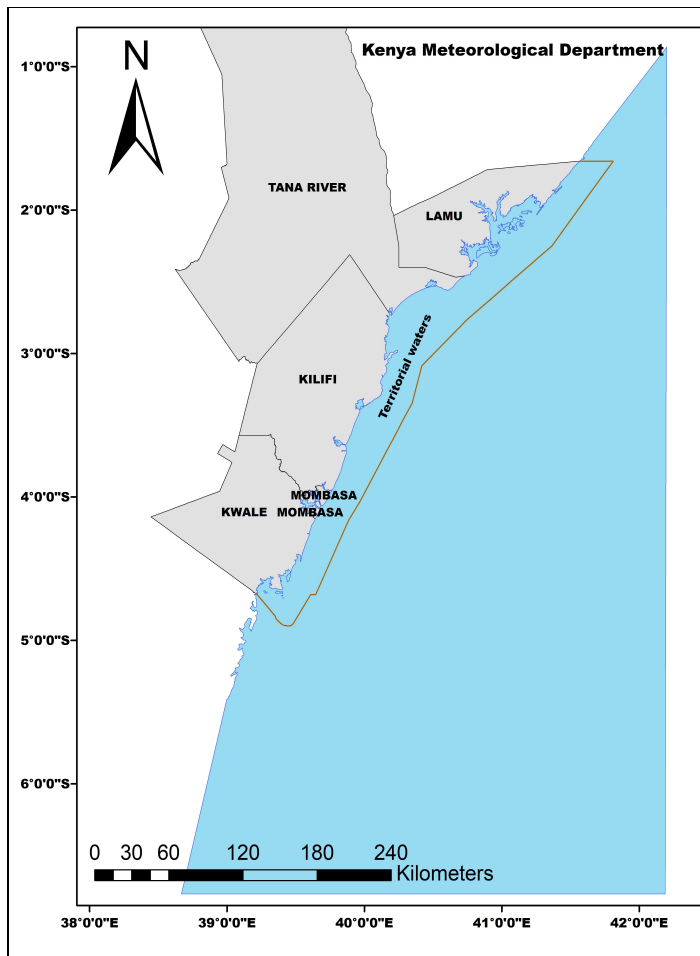


REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST
Issued at: 1500 EAT on 1st December, 2024
Valid: 0000 EAT on 2nd December 2024 to 0000 EAT on 3rd December 2024



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (03-05 knots) with slight choppy seas. ESE waves of 2-3 feet (0.6m- 0.9m) with small period waves of (10 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (08-16 knots) with slight choppy seas. ESE waves of 2-4 feet (0.6m -1.2m) with small period waves of (10 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: SSW 3 knots.
- Morning Waves: ESE 2 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Very small mid period waves.
- Afternoon Winds: ENE 10 to 12 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Very small mid period waves.
- Visibility: Moderate (9-10 km)
- High Tide: **04:27AM; 3.6m, 04:50PM; 3.0m**
- Low Tide: **10:52AM;0.42m, 10:41PM;0.61m**

ii. MOMBASA

- Morning Winds: W 4 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 8 to 10 knots.
- Afternoon Waves: ESE 3 feet at 10 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **04:31AM; 3.5m, 04:58PM; 2.9m**
- Low Tide: **10:54AM; 0.37m, 10:40PM;0.62m**

iii. KILIFI

- Morning Winds: SSE 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 10 knots.
- Afternoon Waves: SE 4 feet at 10 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **04:21AM; 3.2m, 04:50PM;2.6m**
- Low Tide; **10:48AM; 0.2m, 10:35PM;0.48m**

iv. LAMU

- Morning Winds: E 3 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 8 to 16 knots.
- Afternoon Waves: SE 4 feet at 10 seconds.
- Afternoon sea state: Light E winds with a slight chop. Small mid period waves.
- Sunrise; **5:55AM** and sunset; **6:10PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **04:21 AM; 3.1m, 04:51 PM;2.4m**
- Low Tide: **10:51 AM; 0.18m, 10:35 PM;0.46m**

Advisory

- Slight sea conditions are expected with a significant wave height of 0.6 -1.2m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (03-16 knots) expected in Kwale, Mombasa, Kilifi and Lamu.

KEY ON SEA STATE

| WAVE HEIGHT RANGE (Meters) | DESCRIPTION | IMPACT |
|--------------------------------|-------------------|--|
| 0.6 – 1.0 m (≈ 1.8 – 3.0 ft) | Slight | Conditions suitable for Marine activities |
| 1.0 – 1.9 m (≈ 3.0 – 5.7 ft) | Slight - Moderate | |
| 2.0 – 2.9 m (≈ 6.0 – 8.7 ft) | Moderate-Rough | Caution on operating marine activities |
| 3.0 – 4.0 m (≈ 9.0 – 12.0 ft) | Rough | Warning in place!!!! |
| 4.1 – 5.5 m (≈ 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 – ≥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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Duty Analyst
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For

**DIRECTOR,
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