



MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY
STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE
KENYA METEOROLOGICAL DEPARTMENT

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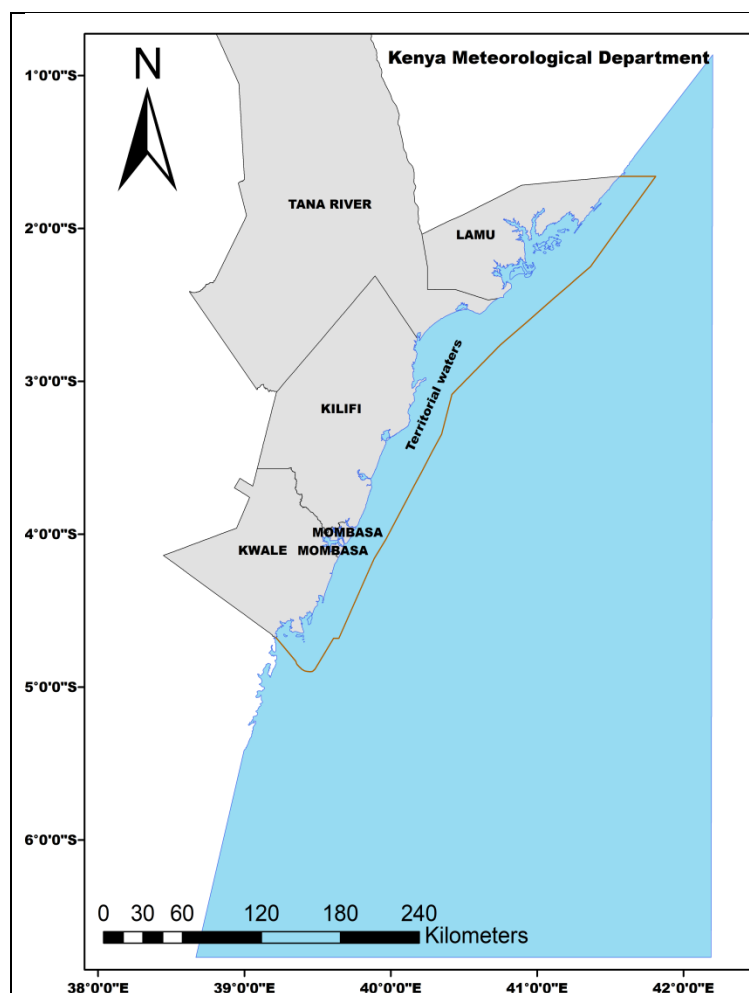
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 15th June 2025

Valid: 0000 EAT on 16th June 2025 to 0000 EAT on 17th June 2025



GENERAL OUTLOOK

Morning sea state:

- Fresh to Strong breeze S to SSW winds (15-23 knots) with choppy seas. SE to ESE waves of 6-9 feet (1.8m – 2.7m) with period waves of (9-10 sec) expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Fresh to Strong breeze S to SSW winds (19-24 knots) with choppy seas. S to ESE waves of 6-9 feet (1.8m - 2.7m) with period waves of (6-10 sec) 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 20 to 23 knots.
- Morning Waves: ESE 6 feet at 10 seconds.
- Morning sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate mid period waves.
- Afternoon Winds: SSW 23 to 24 knots.
- Afternoon Waves: S 6 feet at 6 seconds.
- Afternoon sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate very short period waves.
- Sunrise; **06:27AM** and sunset; **06:20PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **07:19AM; 2.8m, 07:25PM; 3.1m,**
- Low Tide: **01:09AM; 0.7m, 01:11PM; 1.0m,**

ii. MOMBASA

- Morning Winds: SW 15 to 22 knots.
- Morning Waves: ESE 7 feet at 10 seconds.
- Morning sea state: Moderate to strong SW winds with choppy seas. Moderate mid period waves.
- Afternoon Winds: SSW 20 to 23 knots.
- Afternoon Waves: ESE 7 feet at 10 seconds.
- Afternoon sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate mid period waves.
- Sunrise; **06:25AM** and sunset; **6:18PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **07:25AM; 2.7m, 07:29PM; 3.1m,**
- Low Tide: **01:10AM; 0.6m, 01:07PM; 0.9m,**

iii. KILIFI

- Morning Winds: SSW 21 to 23 knots.
- Morning Waves: SE 8 feet at 9 seconds.
- Morning sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Afternoon Winds: SSW 22 to 23 knots.
- Afternoon Waves: ESE 8 feet at 10 seconds.
- Afternoon sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate mid period waves.
- Sunrise; **06:24AM** and sunset; **06:19PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07:15AM; 2.5m, 07:17PM; 2.8m,**
- Low Tide: **01:05AM; 0.5m; 01:03PM; 0.8m;**

iv. LAMU

- Morning Winds: S 19 to 22 knots.
- Morning Waves: SE 9 feet at 9 seconds.
- Morning sea state: Moderate to strong S winds with choppy seas. Moderate short period waves
- Afternoon Winds: S 19 to 23 knots.
- Afternoon Waves: SE 9 feet at 10 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate mid period waves.
- Sunrise; **06:17AM** and sunset; **06:16PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **07:17AM; 2.4m, 07:17PM; 2.7m,**
- Low Tide: **01:08AM; 0.4m, 01:03PM; 0.8m,**

Advisory

- Moderate to Rough Sea conditions are expected with a significant wave height of 1.8m – 2.7m in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised to be cautious due to moderate - rough waves expected.
- Fresh Breeze to Strong breeze of (15-24 knots) expected in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised not to venture into deep sea due to strong winds expected.

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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