



REPUBLIC OF KENYA

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE

KENYA METEOROLOGICAL DEPARTMENT

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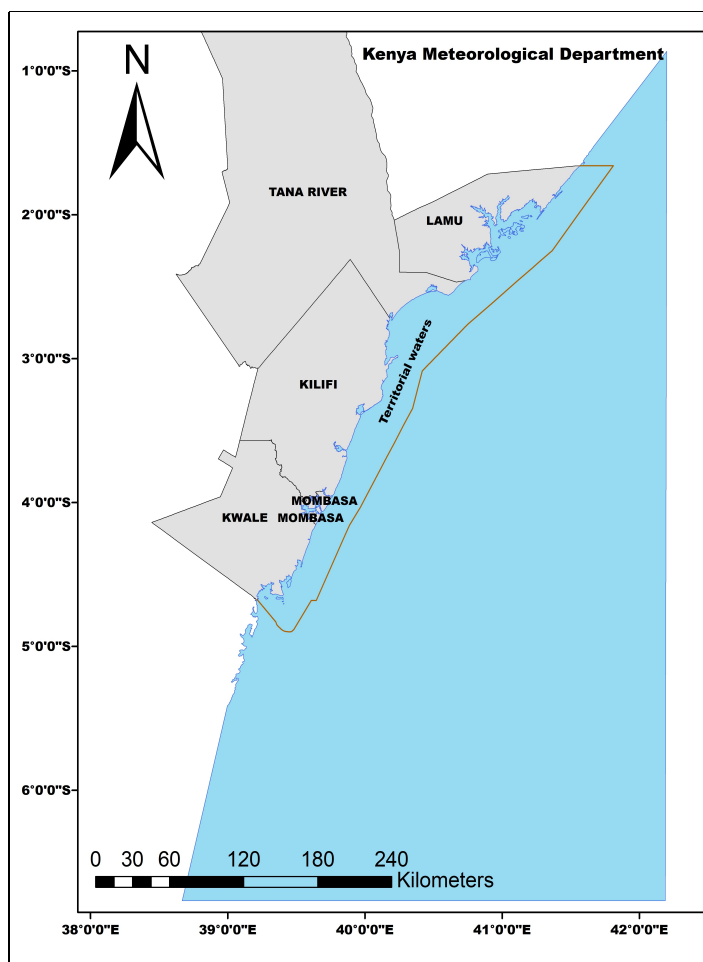
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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 14th July, 2025

Valid: 0000 EAT on 15th July, 2025 to 0000 EAT on 16th July, 2025



GENERAL OUTLOOK

Morning sea state:

- Light to breezy S to SSW winds (08-19 knots) with slight to moderate choppy seas. ESE waves of 5-7ft (1.5-2.1m) with moderate period waves of 11sec are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light to breezy S winds (10-21 knots) with slight to moderate choppy seas. ESE waves of 5-7feet (1.5-2.1m) with moderate period waves of 11sec 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 13 to 18 knots.
- Morning Waves: E SE 5 feet at 11 seconds.
- Morning sea state: Breezy SSW winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: S 14 to 21 knots.
- Afternoon Waves: ESE 5 feet at 11 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:32AM** and sunset; **6:24PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **7:02AM; 3.18, 7:09PM; 3.29m**
- Low Tide: **00:49AM;0.39m, 1:01PM;0.67m**

ii. MOMBASA

- Morning Winds: SSW 12 to 18 knots.
- Morning Waves: ESE 6 feet at 11 seconds.
- Morning sea state: Breezy SSW winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: S 14 to 20 knots.
- Afternoon Waves: ESE6 feet at 11 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:30AM** and sunset; **6:24PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **7:08AM; 3.1m, 7:15PM; 3.23m**
- Low Tide: **00:51AM; 0.34m, 1:01PM;0.64m**

iii. KILIFI

- Morning Winds: SSW 8 to 19 knots.
- Morning Waves: ESE7 feet at 11 seconds.
- Morning sea state: Light SSW winds with a slight chop. Moderate mid period waves.
- Afternoon Winds: S 13 to 21 knots.
- Afternoon Waves: ESE 7 feet at 11 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:28AM** and sunset; **6:24PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:58AM; 2.87m, 7:02PM; 2.98m**
- Low Tide: **00:44AM; 0.22m, 12:55PM;0.53m**

iv. LAMU

- Morning Winds: S 8 to 19 knots.
- Morning Waves: ESE7 feet at 11 seconds.
- Morning sea state: Light S winds with a slight chop. Moderate mid period waves.
- Afternoon Winds: S 10 to 20 knots.
- Afternoon Waves: ESE 7 feet at 11 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:22AM** and Sunset; **6:22PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **6:59AM; 2.73m, 7:02PM; 2.87m**
- Low Tide: **00:47AM; 0.2m, 12:55PM;0.53m**

Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 1.5-2.1m in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised to be cautious while venturing into deep sea in Lamu and Kilifi.
- Light to gentle breeze of (08-21 knots) expected in Kwale, Mombasa Kilifi and Lamu throughout the forecast period.

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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