

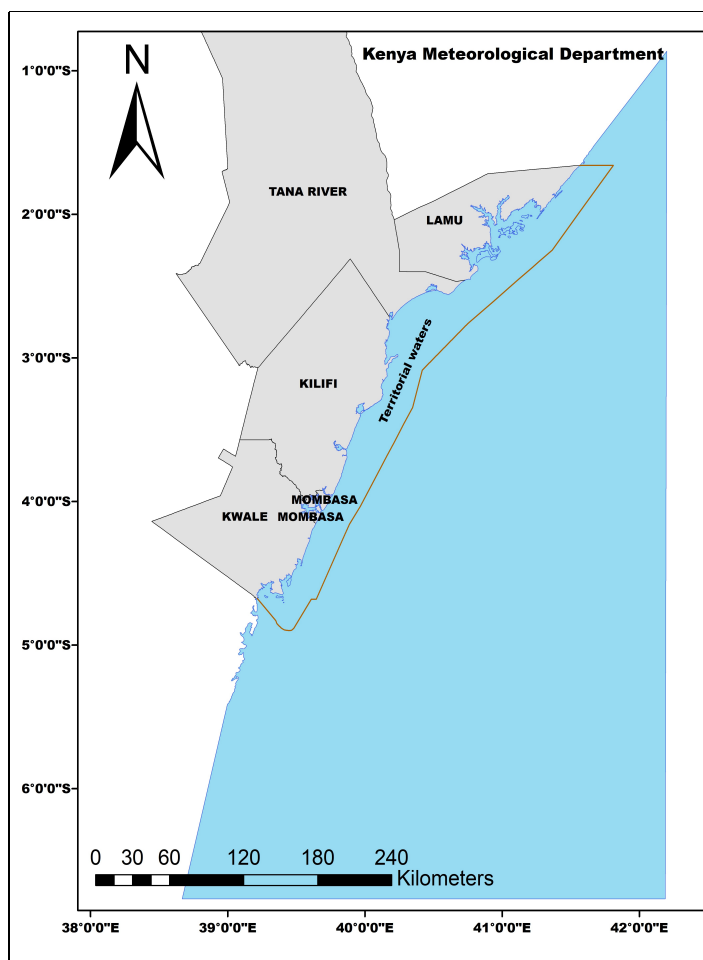


REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST
Issued at: 1500 EAT on 27th July 2024
Valid: 0000 EAT on 28th July 2024 to 0000 EAT on 29th July 2024



GENERAL OUTLOOK

Morning sea state:

- Light to breezy S winds (05-15 knots) with slight to moderate choppy seas. ESE waves of 4-5ft (1.2-1.5m) with short to moderate period waves of (10 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light to breezy S to SSE winds (08-17 knots) with slight to moderate choppy seas. ESE waves of 4-5 feet (1.2-1.5m) with short to moderate 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: S 8 to 11 knots.
- Morning Waves: ESE 4 feet at 10 seconds.
- Morning sea state: Light S winds with a slight chop. Small mid-period waves.
- Afternoon Winds: SSE 10 to 15 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small mid-period waves.
- Sunrise; **6:31AM** and sunset; **6:26PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **9:13AM; 3.13m, 9:30PM; 2.63m**
- Low Tide: **2:37AM;0.68m, 3:24PM;1.02m**

ii. MOMBASA

- Morning Winds: S 10 to 13 knots.
- Morning Waves: ESE 5 feet at 10 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Small mid-period waves.
- Afternoon Winds: SSE 10 to 14 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small mid-period waves.
- Sunrise; **6:29AM** and sunset; **6:25PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **9:15AM; 3.1m, 9:32PM; 2.51m**
- Low Tide: **2:39AM; 0.62m, 3:32PM; 0.93m**

iii. KILIFI

- Morning Winds: S 13 to 15 knots.
- Morning Waves: ESE 5 feet at 10 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Moderate mid-period waves.
- Afternoon Winds: SSE 13 to 17 knots.
- Afternoon Waves: ESE 5 feet at 10 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small mid-period waves.
- Sunrise; **6:29AM** and sunset; **6:24PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **9:02AM; 2.87m, 9:19PM; 2.26m**
- Low Tide; **2:28AM; 0.53m, 3:23PM; 0.82m**

iv. LAMU

- Morning Winds: S 5 to 9 knots.
- Morning Waves: ESE 5 feet at 10 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid-period waves.
- Afternoon Winds: S 8 to 14 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Light S winds with a slight chop. Small mid-period waves.
- Sunrise; **6:26AM** and sunset; **6:26PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **9:03AM; 2.77m, 9:17PM; 2.15m**
- Low Tide: **2:29AM; 0.49m, 3:26PM; 0.8m**

Advisory

- Slight to moderate sea conditions are expected with significant wave height of 1.2-1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (05-17 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, acknowledgment 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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