



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND
FORESTRY

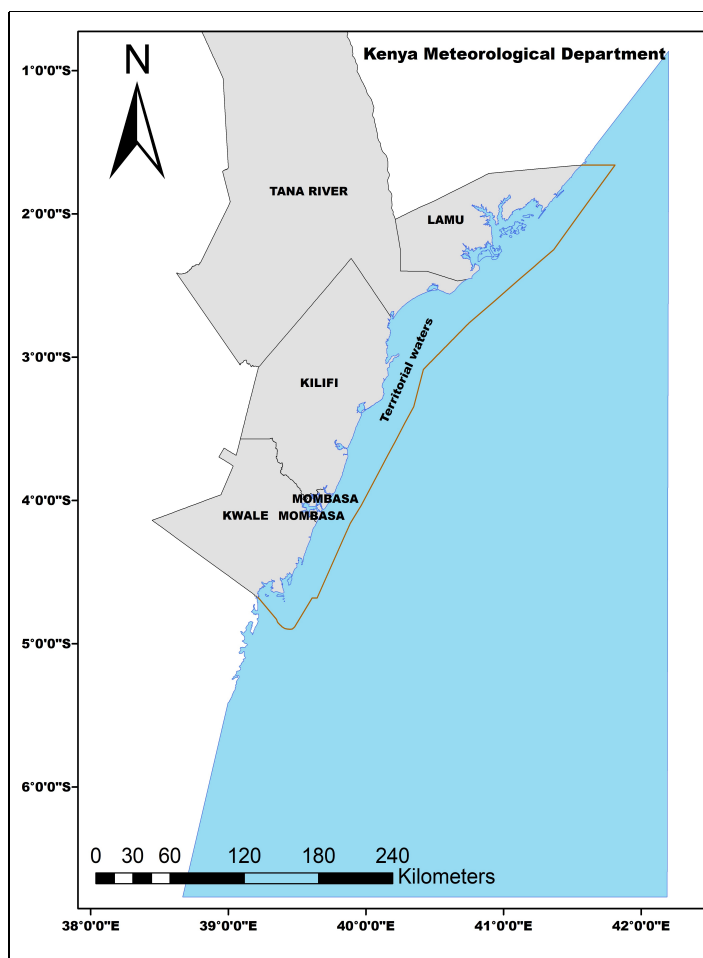
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 21st January, 2025

Valid: 0000 EAT on 22nd January 2025 to 0000 EAT on 23rd January 2025



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (03-09 knots) with slight choppy seas. ESE waves of 3-4 feet (0.9m -1.2m) with small period waves of (8 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (11-20 knots) with slight choppy seas. ESE waves of 4-5 feet (1.2m -1.5m) with small period waves of (8 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: NNW 8 to 9 knots.
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 17 to 20 knots.
- Afternoon Waves: ENE 5 feet at 8 seconds.
- Afternoon sea state: Moderate to strong ENE winds with choppy seas. Small short period waves.
- Visibility: Moderate (9-10 km)
- High Tide: 09:10 AM; 2.4m, 10:00 AM; 2.7m
- Low Tide: 03:12 AM; 1.3m, 03:08 PM; 1.2m

ii. MOMBASA

- Morning Winds: NW 6 to 7 knots
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light NW winds with a slight chop. Small short period waves.
- Afternoon Winds: ENE 15 to 18 knots.
- Afternoon Waves: ENE 4 feet at 8 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small short period waves.
- Sunrise; 5:57AM and sunset; 6:17PM
- Visibility: Moderate (9-10 km)
- High Tide: 09:04AM; 2.4m, 09:53PM; 2.6m,
- Low Tide: 03:17AM; 1.3m, 03:10PM; 1.1m

iii. KILIFI

- Morning Winds: NNW 6 knots.
- Morning Waves: ENE 4 feet at 8 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small short period waves.
- Afternoon Winds: E 15 to 19 knots.
- Afternoon Waves: ENE 4 feet at 8 seconds.
- Afternoon sea state: Moderate to strong E winds with choppy seas. Small short period waves.
- Sunrise; 5:57AM and sunset; 6:15PM
- Visibility: Moderate (9-10km)
- High Tide: 08:49AM; 2.1m, 09:42PM; 2.3m,
- Low Tide: 03:07AM; 1.1m, 02:57PM; 1.0m

iv. LAMU

- Morning Winds: NNE 3 knots.
- Morning Waves: E 3 feet at 8 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small short period waves.
- Afternoon Winds: E 11 to 20 knots.
- Afternoon Waves: E 4 feet at 5 seconds.
- Afternoon sea state: Breezy E winds with moderate choppy seas. Small very short period waves.
- Sunrise; 00:38AM and sunset; 6:10PM
- Visibility: Moderate (9-10km)
- High Tide: 08:49AM; 2.0m, 09:44 AM; 2.3m,
- Low Tide: 03:10 AM; 1.1m, 02:57 PM; 0.9m

Advisory

- Slight sea conditions are expected with a significant wave height of 0.9m - 1.5m in Kwale, Mombasa, Kilifi and Lamu.
- Light breeze to Strong breeze of (03-20 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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