

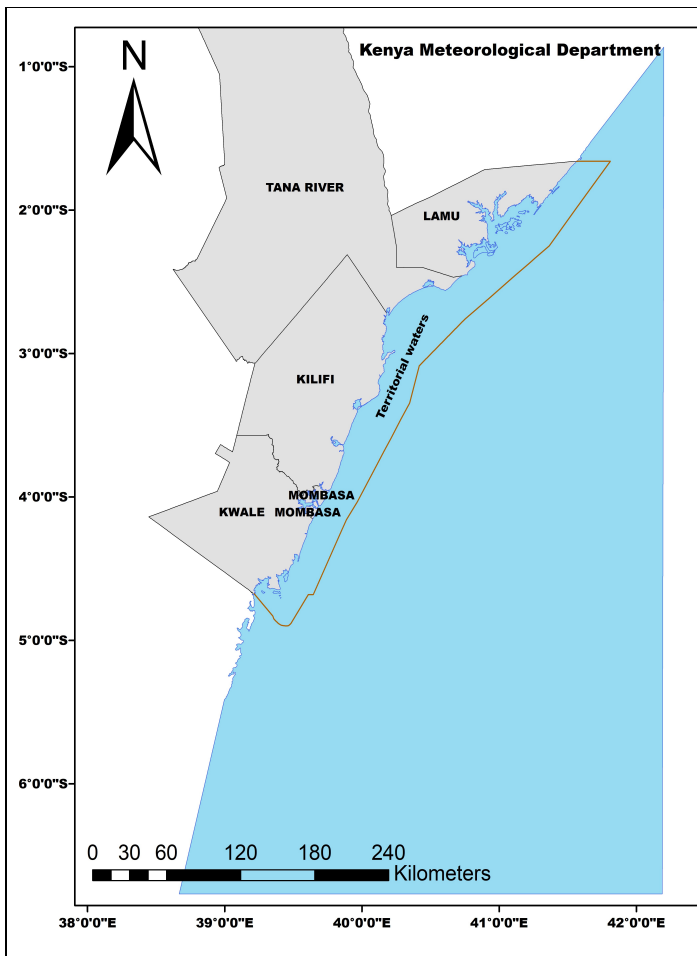


REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST
Issued at: 1500 EAT on 12th December, 2024
Valid: 0000 EAT on 13th December 2024 to 0000 EAT on 14th December 2024



GENERAL OUTLOOK

Morning sea state:

- Light and variable winds (02-11 knots) with slight choppy seas. ESE waves of 3-4 feet (0.9-1.2m) with small period waves of (9 sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Light E to SE winds (08-19 knots) with slight choppy seas. ESE waves of 4 feet (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: NNW 10 to 11 knots.
- Morning Waves: ENE 3 feet at 9 seconds.
- Morning sea state: Breezy NNW winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: ENE 16 to 19 knots.
 - Afternoon Waves: ENE 4 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: **02:07AM; 3.5m, 02:37PM; 2.9m**
- Low Tide: **08:37AM;0.5m, 08:30PM;0.6m**

ii. MOMBASA

- Morning Winds: NNW 6 to 7 knots.
- Morning Waves: ESE 3 feet at 11 seconds.
- Morning sea state: Light NNW winds with a slight chop. Small mid period waves.
- Afternoon Winds: ENE 12 to 16 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Breezy ENE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **02:12AM; 3.4m, 02:45PM; 2.8m**
- Low Tide: **08:42AM; 0.5m, 08:28PM;0.6m**

iii. KILIFI

- Morning Winds: NNW 4 knots.
- Morning Waves: ESE 4 feet at 11 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: ENE 8 to 13 knots.
- Afternoon Waves: ESE 4 feet at 10 seconds.
- Afternoon sea state: Light ENE winds with a slight chop. Small mid period waves.
- Sunrise; **5:57AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **01:59AM; 3.1m, 02:36PM;2.5m**
- Low Tide; **08:33AM; 0.4m, 08:20PM;0.5m**

iv. LAMU

- Morning Winds: N 2 knots.
- Morning Waves: ESE 4 feet at 11 seconds.
- Morning sea state: Light and variable winds with smooth seas. Small mid period waves.
- Afternoon Winds: E 8 to 16 knots.
- Afternoon Waves: ESE 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: **01:59 AM; 3.0m, 02:36 PM;2.4m**
- Low Tide: **08:36 AM; 0.4m, 08:20 PM;0.5m**

Advisory

- Slight sea conditions are expected with a significant wave height of 0.9m-1.2m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (02-19 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!!!! Warning in place and marine activities on hold
4.1 – 5.5 m (≈ 12.3 – 16.5 ft)	Very Rough	

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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For

**DIRECTOR,
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