



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

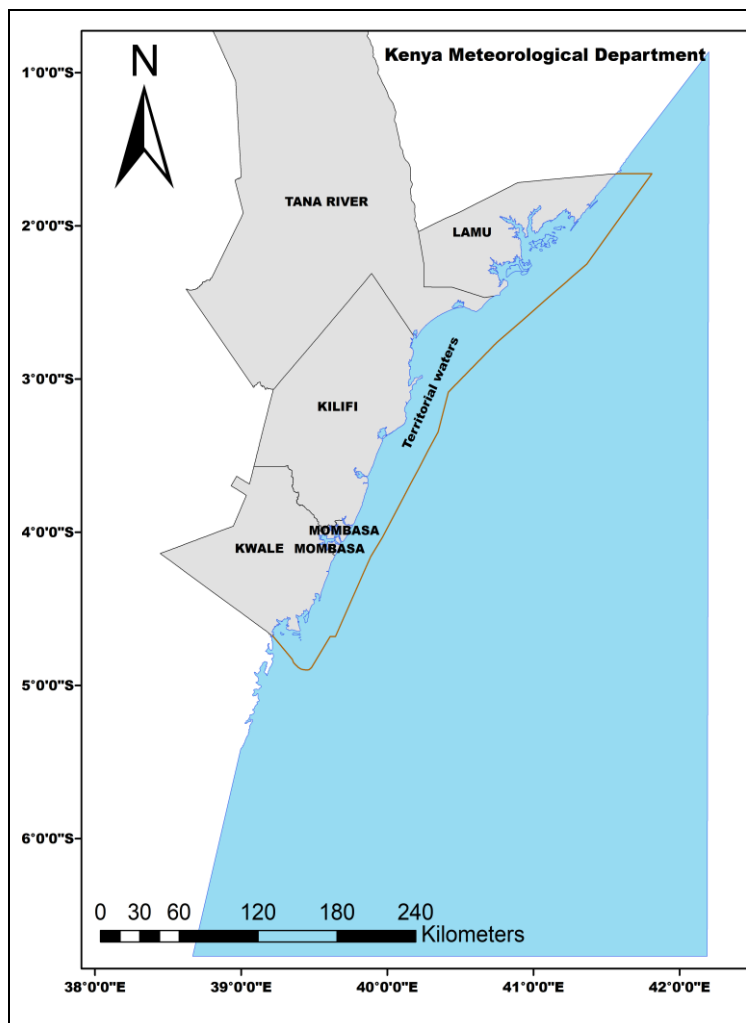
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 16th June, 2024

Valid: 0000 EAT on 17th June, 2024 to 0000 EAT on 18th June, 2024



GENERAL OUTLOOK

Morning sea state:

- Breezy to moderately strong S to SW winds (10-24knots) with moderate choppy to choppy seas. SW to SSE waves of 4-7ft (1.2-2.1m) with moderate short period waves of (7-8sec) expected Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Breezy to moderately strong S to SSE winds (11-22knots) with moderate choppy to choppy seas. SSE to ESE waves of 4-6feets (1.2-1.8m) with moderate short period waves of (5-10sec) 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: SW 12 to 18 knots.
- Morning Waves: SW 4 feet at 7 seconds.
- Morning sea state: Breezy SW winds with moderate choppy seas. Small short period waves.
- Afternoon Winds: SSE 17 to 22 knots.
- Afternoon Waves: SSE 4 feet at 5 seconds.
- Afternoon sea state: Moderate to strong SSE winds with choppy seas. Small very short period waves.
- Sunrise; **6:28AM** and sunset; **6:19PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **00:36AM; 2.41m, 1:03PM; 2.9m**
- Low Tide: **6:26AM;1.23m, 7:35PM;1.12m**

ii. MOMBASA

- Morning Winds: SSW 13 to 19 knots.
- Morning Waves: SSE 6 feet at 8 seconds.
- Morning sea state: Breezy SSW winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: S 14 to 20 knots.

- Afternoon Waves: ESE 6 feet at 10 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:25AM** and sunset; **6:19PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **00:29AM; 2.27m, 1:04PM; 2.77m**
- Low Tide: **6:27AM; 1.16m, 6:37PM;1.12m**

iii. KILIFI

- Morning Winds: S 19 to 24 knots.
- Morning Waves: SSE 7 feet at 8 seconds.
- Morning sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 18 to 22 knots.

- Afternoon Waves: ESE 6 feet at 10 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate mid period waves.
- Sunrise; **6:24AM** and sunset; **6:19PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:23AM; 2.04m, 12:55PM; 2.52m**
- Low Tide: **6:17AM; 1.03m, 7:29PM;0.95m**

iv. LAMU

- Morning Winds: S 10 to 23 knots.
- Morning Waves: SSE 6 feet at 7 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: S 11 to 22 knots.
- Afternoon Waves: SSE 6 feet at 7 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate short period waves.
- Sunrise; **6:17AM** and sunset; **6:17PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:23AM; 1.94m, 12:56PM; 2.43m**
- Low Tide: **6:17AM; 0.98m, 7:32PM;0.91m**

Advisory

- Moderate to rough sea condition expected with significant wave height 1.8-2.1m Kilifi.
- Gentle to fresh breeze of (10-24knots) expected in Kwale, Mombasa, Kilifi and Lamu. Small boats and crafts are advised not to venture into deep sea areas especially in 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, 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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