



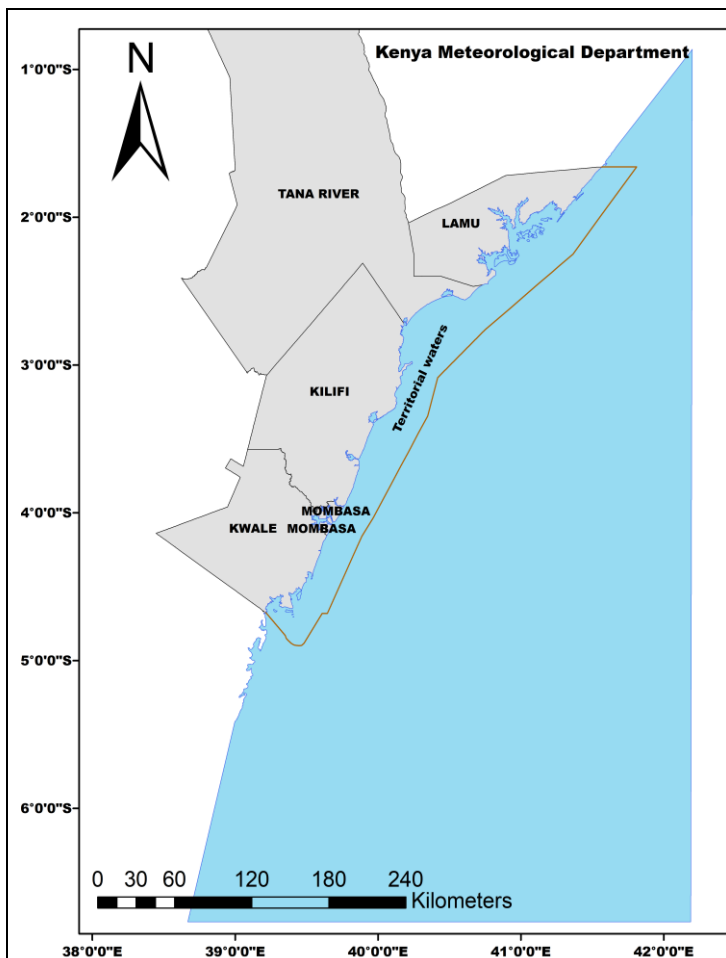
REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT AND FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 10th May , 2021

Valid: 0000 EAT on 11th May, 2021 to 000 EAT on 12th May, 2021



GENERAL OUTLOOK

Morning sea state:

- Moderate to strong SSW winds (14- 22Knots) with choppy seas Moderate short period waves (8sec) of 4-6 feet (1.2-1.8M) expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Moderate to strong S winds (15- 24Knots) with choppy seas. Small very short period waves (8sec) of 5-6 feet (1.5-1.8M) expected in Kwale, Mombasa, Kilifi & Lamu.

Visibility:

- Moderate (9-10) expected in Kwale, Mombasa, Kilifi & Lamu.

1. COASTAL COUNTIES MARINE NEAR SHORE FORECAST

i. KWALE

- Morning Winds: SSW 15 to 21 knots.
- Morning Waves: SE 4 feet at 8 seconds.
- Morning sea state: Moderate to strong SSW winds with choppy seas. Small short period waves.
- Afternoon Winds: S 16 to 22 knots.
- Afternoon Waves: SSE 5 feet at 8 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Small short period waves.
- Sunrise; **6:20 AM** and sunset; **6:15 PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **4:03AM; 3.19M, 4:11PM; 3.61M**
- Low Tide: **9:59AM; 0.53M, 10:29PM; 0.32M**

ii. MOMBASA

- Morning Winds: SSW 14 to 20 knots.
- Morning Waves: SE 6 feet at 8 seconds.
- Morning sea state: Breezy SSW winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: S 15 to 21 knots.
- Afternoon Waves: SSE 6 feet at 8 seconds.
- Afternoon Sea State: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:18AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **4:10AM; 3.05M, 4:18PM; 3.52M**
- Low Tide: **10:00AM;0.53M, 10:33PM; 0.37M**

iii. KILIFI

- Morning Winds: S 15 to 21 knots.
- Morning Waves: SSE 6 feet at 8 seconds.
- Morning sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 18 to 24 knots.
- Afternoon Waves: SSE 6 feet at 8 seconds.
- Afternoon Sea State: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:18AM** and sunset; **6:15PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **3:58AM; 2.78M, 4:05PM; 3.23M**
- Low Tide: **9:52AM; 0.38M, 10:25PM; 0.19M**

iv. LAMU

- Morning Winds: S 16 to 22 knots.
- Morning Waves: SSE 5 feet at 7 seconds.
- Morning sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 17 to 23 knots.
- Afternoon Waves: SSE 6 feet at 7 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:11AM** and sunset; **6:13PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **3:59AM; 2.64M, 4:07PM; 3.11M**
- Low Tide: **9:53AM; 0.37M, 10:27PM; 0.18M**

2. Advisory

Slight to Moderate sea conditions with winds of(14-24Knots), waves of (1.2-1.8 M) and moderate short period of (8 sec) expected in Kwale, Mombasa, Kilifi and Lamu. Moderate visibility 7-10 KM.

Small boats and crafts advised to venture into the sea with caution in the afternoon.

6.KEY ON SEA STATE

WAVEHEIGHT RANGE (Metres)	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	
Wave Height of 2.0 – 2.9 m (≈ 6.0 – 8.7 ft)	Moderate-Rough	Caution on operating marine activities
3.0 – >6.0	Rough - Extremely Rough	Warning in place!!!! Warning in place and marine activities on hold

7.KEY ON SEA STATE

WIND SPEEDS	RANGE	DESCRIPTIONS	IMPACT
SPEEDS	< 1 – 7 Knots	Calm to Light breeze	1 – 6 knots, the Ocean is relatively calm with very little disturbance. Suitable for Marine operations
SPEEDS	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
SPEEDS	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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