



## REPUBLIC OF KENYA

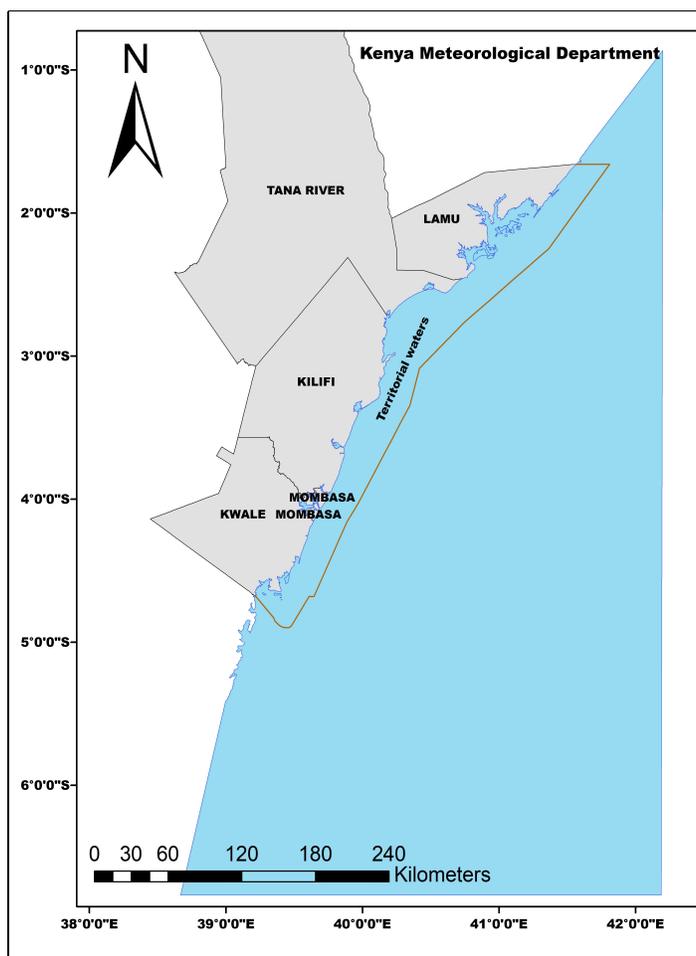
### MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE **KENYA METEOROLOGICAL DEPARTMENT**

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### DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 6<sup>th</sup> May 2025

Valid: 0000 EAT on 7<sup>th</sup> May 2025 to 0000 EAT on 8<sup>th</sup> May 2025



#### GENERAL OUTLOOK

##### **Morning sea state:**

- Light to strong SSW winds (09-28 knots) with slight to choppy seas. SSE waves of 5-9ft (1.5-2.7m) with small period waves of (8-9sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

##### **Afternoon sea state:**

- Breezy to strong S to SSW winds (10-25 knots) with slight to choppy seas. SSE waves of 5-8feet (1.5-2.4m) with small period waves of (6-8sec) 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: SSW 16 to 22 knots
- Morning Waves: SE 5 feet at 9 seconds.
- Morning sea state: Moderate to strong SSW winds with choppy seas. Moderate short period waves.
- Afternoon Winds: SSW 18 to 24 knots.
- Afternoon Waves: SE 5 feet at 6 seconds.
- Afternoon sea state: Moderate to strong SSW winds with choppy seas. Moderate very short period waves.
- Sunrise; **6:21AM** and sunset; **6:17PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **00:43AM; 2.63m, 1:26PM; 2.76m**
- Low Tide: **7:12AM; 1.12m, 7:41PM; 1.17m**

### **ii. MOMBASA**

- Morning Winds: SSW 18 to 25 knots.
- Morning Waves: SSE 7 feet at 9 seconds.
- Morning sea state: Moderate to strong SSW winds with choppy seas. Moderate short period waves.
- Afternoon Winds: SSW 18 to 24 knots.
- Afternoon Waves: SSE 7 feet at 7 seconds.
- Afternoon sea state: Moderate to strong SSW winds with choppy seas. Moderate short period waves.
- Sunrise; **6:19AM** and sunset; **6:16PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **00:48AM; 2.47m, 1:33PM; 2.67m**
- Low Tide: **7:06AM; 1.14m, 7:46PM; 1.17m**

### **iii. KILIFI**

- Morning Winds: SSW 25 to 28 knots.
- Morning Waves: SSE 9 feet at 9 seconds.
- Morning sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Afternoon Winds: SSW 23 to 25 knots.
- Afternoon Waves: SSE 8 feet at 7 seconds.
- Afternoon sea state: Strong SSW winds with very choppy seas. Small Craft Advisory. Moderate short period waves.
- Sunrise; **6:17AM** and sunset; **6:16PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:43AM; 2.23m, 1:27PM; 2.43m**
- Low Tide: **7:00AM; 0.94m, 7:39PM; -0.99m**

### **iv. LAMU**

- Morning Winds: SSW 9 to 20 knots.
- Morning Waves: SSE 8 feet at 8 seconds.
- Morning sea state: Light SSW winds with a slight chop. Moderate short period waves.
- Afternoon Winds: SSW 10 to 20 knots.
- Afternoon Waves: SSE 7 feet at 8 seconds.
- Afternoon sea state: Breezy SSW winds with moderate choppy seas. Moderate short period waves.
- Sunrise; **6:12AM** and Sunset; **6:14PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **00:41AM; 2.13m, 1:29PM; 2.33m**
- Low Tide: **7:00AM; 0.89m, 7:41PM; -0.96m**

**Advisory**

- Slight to moderate sea conditions are expected with a significant wave height of 1.5-2.4m in Kwale, Mombasa, Kilifi and Lamu.
- Light to strong breeze of (09-28 knots) expected in Kwale, Mombasa Kilifi and Lamu throughout the forecast period. Small boats and crafts are advised not to venture into deep sea areas in Kwale, Mombasa and Kilifi due to strong winds expected.

**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.*

**FOR DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT**