



## REPUBLIC OF KENYA

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

STATE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE

### KENYA METEOROLOGICAL DEPARTMENT

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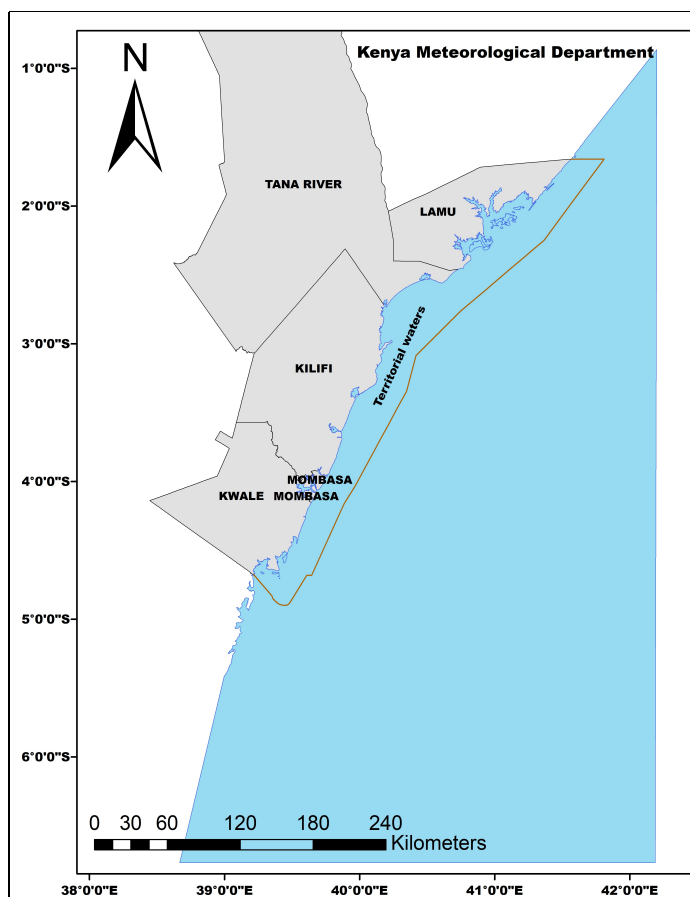
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### DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1500 EAT on 23<sup>rd</sup> September August, 2025

Valid: 0000 EAT on 24<sup>th</sup> September, 2025 to 0000 EAT on 25<sup>th</sup> September, 2025



### GENERAL OUTLOOK

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

- Light to breezy S to SSE winds (05-15 knots) with slight to moderate choppy seas. ESE waves of 5-7ft (1.5-2.1m) with moderate period waves of (10sec) are expected in Kwale, Mombasa, Kilifi and Lamu.

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

- Light to breezy SE to SSE winds (08-16 knots) with slight to moderate choppy seas. ESE waves of 5-6feet (1.5-1.8m) with small to moderate period waves of (10sec) 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: SSE 7 to 9 knots.
- Morning Waves: ESE 5 feet at 10 seconds.
- Morning sea state: Light SSE winds with a slight chop. Moderate mid period waves.
- Afternoon Winds: SE 12 to 14 knots.
- Afternoon Waves: ESE 5 feet at 10 seconds.
- Afternoon sea state: Breezy SE winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:11AM** and sunset; **6:18PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **5:14AM; 3.66m, 5:30PM; 3.38m**
- Low Tide: **11:25AM;0.23m, 11:29PM;0.38m**

### **ii. MOMBASA**

- Morning Winds: SSE 10 to 13 knots.
- Morning Waves: ESE7 feet at 10 seconds.
- Morning sea state: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: SSE 12 to 15 knots.
- Afternoon Waves: ESE6 feet at 10 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:09AM** and sunset; **6:16PM**
- Visibility: **Moderate (9-10 km)**
- High Tide: **5:22AM; 3.55m, 5:36PM; 3.23m**
- Low Tide: **11:30AM; 0.22m, 11:31PM;0.3m**

### **iii. KILIFI**

- Morning Winds: SSE 14 to 15 knots.
- Morning Waves: ESE6 feet at 10 seconds.
- Morning sea state: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: SSE 14 to 16 knots.
- Afternoon Waves: ESE 6 feet at10 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:08AM** and sunset; **6:16PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:11AM; 3.33m, 5:25PM; 2.98m**
- Low Tide: **11:22AM; 0.11m, 11:22PM;0.2m**

### **iv. LAMU**

- Morning Winds: S 5 to 12 knots.
- Morning Waves: ESE6 feet at 9 seconds.
- Morning sea state: Light and variable winds with smooth seas. Moderate short period waves.
- Afternoon Winds: SSE 8 to 15 knots.
- Afternoon Waves: ESE 6 feet at 10 seconds.
- Afternoon sea state: Light SSE winds with a slight chop. Moderate mid period waves.
- Sunrise; **6:05AM** and Sunset; **6:12PM**
- Visibility: **Moderate (9-10km)**
- High Tide: **5:12AM; 3.2m, 5:25PM; 2.85m**
- Low Tide: **11:24AM; 0.1m, 11:23PM;0.18m**

### Advisory

- Slight to moderate sea conditions are expected with a significant wave height of 1.5-2.1m in Kwale, Mombasa, Kilifi and Lamu.
- Light to gentle breeze of (05-16 knots) expected in Kwale, Mombasa Kilifi and Lamu throughout the forecast period.

### KEY ON SEA STATE

| WAVE HEIGHT RANGE<br>(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 – 6 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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