



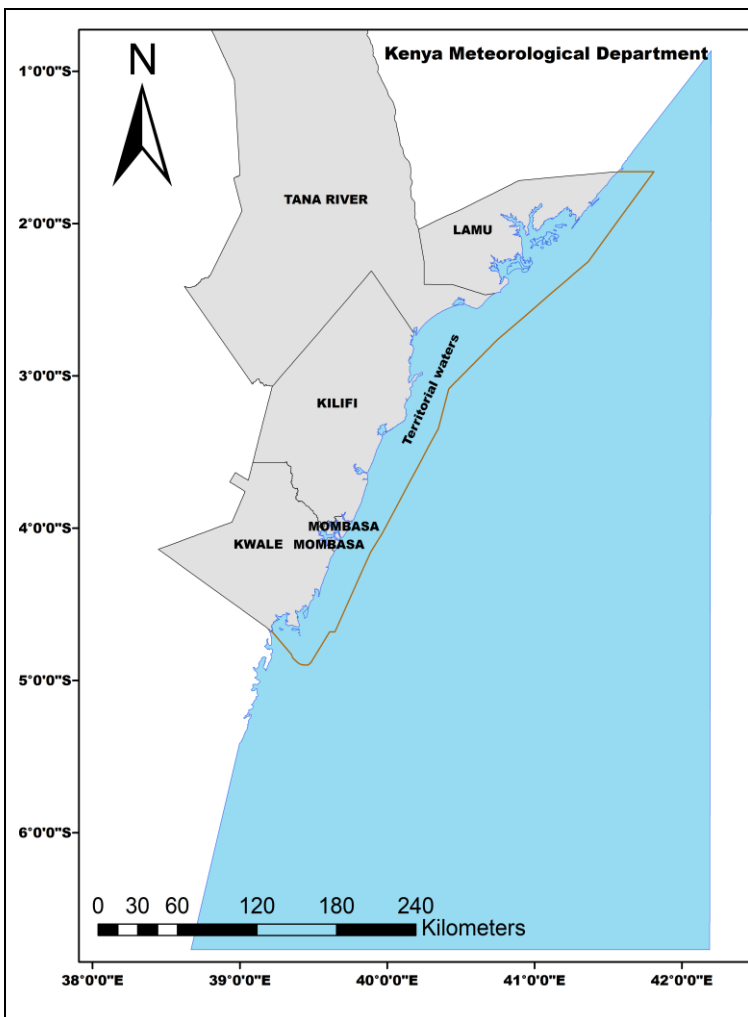
REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT AND FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST

Issued at: 1300 EAT on 17th September, 2021

Valid: 0000 EAT on 18th September, 2021 to 0000 EAT on 19th September, 2021



GENERAL OUTLOOK

Morning sea state:

- Gentle to fresh S winds (8-14knots) with moderate choppy seas. Slight to Moderate waves of 4-7 feet (1.2-2.1m) with moderate mid period waves of (10sec) expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Gentle to fresh SSE winds (11-19Knots) with moderate choppy seas. Slight to moderate waves of 4-7 feet (1.2-2.1m) with small to moderate mid period waves of (11sec) expected in Kwale, Mombasa, Kilifi and Lamu.

Visibility:

- Moderate visibility (10.0km) expected in Kwale, Mombasa, Kilifi & Lamu.

1. COASTAL COUNTIES MARINE NEAR SHORE FORECAST

i. KWALE

- Morning Winds: S 8 to 10 knots.
- Morning Waves: ESE 4 feet at 11 seconds.
- Morning sea state: Light S winds with a slight chop. Small mid period waves.
- Afternoon Winds: SSE 14 to 19 knots.
- Afternoon Waves: ESE 4 feet at 11 seconds.
- Afternoon sea state: Breezy SSE winds with moderate choppy seas. Small mid period waves.
- Sunrise; **6:14AM** and sunset; **6:19 PM**
- Visibility: **Moderate (10.0 km)**
- High Tide: **2:34AM; 2.79m, 2:44PM; 3.28m**
- Low Tide: **8:33AM; 0.94m, 9:10PM; 0.56m**

ii. MOMBASA

- Morning Winds: S 9 to 12 knots.
- Morning Waves: ESE 6 feet at 11 seconds.
- Morning sea state: Light S winds with a slight chop. Moderate mid period waves.
- Afternoon Winds: SSE 11 to 16 knots.
- Afternoon Waves: ESE 6 feet at 11 seconds.
- Afternoon Sea State: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:13AM** and sunset; **6:18PM**
- Visibility: **Moderate (10.0km)**
- High Tide: **1:41AM; 2.29m, 1:57PM; 2.87m**
- Low Tide: **7:27AM; 1.18m, 8:32PM; 0.81m**

iii. KILIFI

- Morning Winds: S 11 to 13 knots.
- Morning Waves: ESE 6 feet at 11 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: SSE 14 to 19 knots.
- Afternoon Waves: ESE 5 feet at 11 seconds.
- Afternoon Sea State: Breezy SSE winds with moderate choppy seas. Moderate mid period waves.
- Sunrise; **6:11AM** and sunset; **6:17PM**
- Visibility: **Moderate (10.0km)**
- High Tide: **12:37AM; 2.41m, 2:44PM; 2.88m**
- Low Tide: **8:29AM; 0.77m, 9:08PM; 0.41m**

iv. LAMU

- Morning Winds: S 10 to 14 knots.
- Morning Waves: ESE 6 feet at 11 seconds.
- Morning sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.
- Afternoon Winds: SE 12 to 17 knots.
- Afternoon Waves: ESE 5 feet at 11 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Moderate mid period waves.

- Sunrise; **6:08AM** and sunset; **6:14PM**
- Visibility: **Moderate (10.0km)**
- High Tide: **2:38AM; 2.29m, 2:44PM; 2.77m**
- Low Tide: **8:29AM; 0.74m, 9:09PM; 0.38m**

2. **Advisory**

- Slight to Moderate sea conditions are expected with significant waves height of (1.2 - 1.8m), winds (8-19knots) expected in Kwale, Mombasa, Kilifi and Lamu.

WAVE HEIGHT 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	
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	

4. 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.

Stella Aura, MBS

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