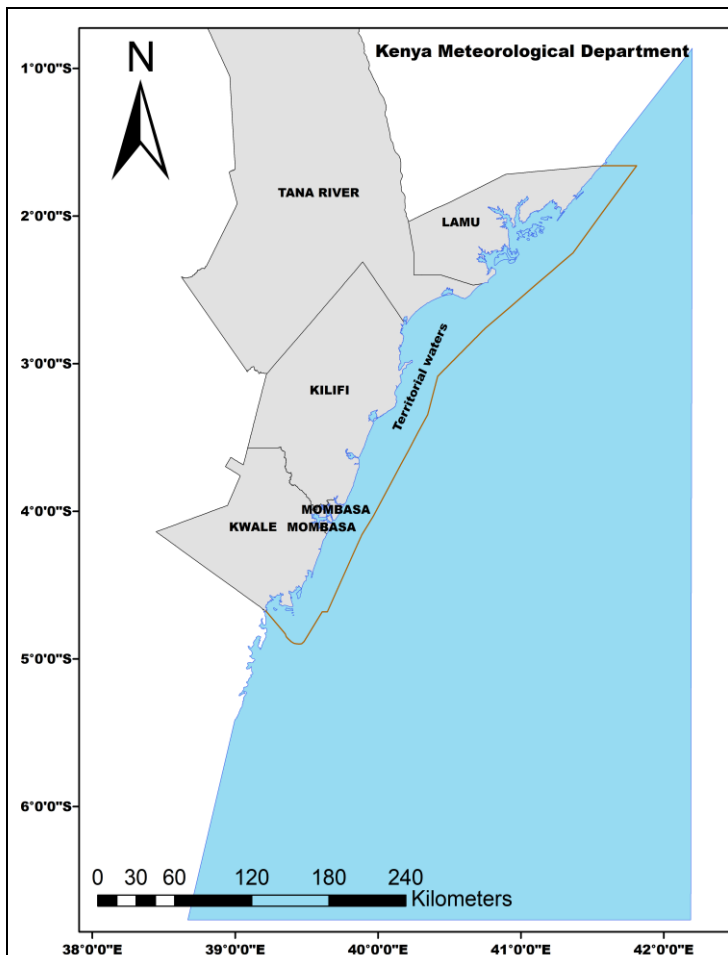




REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT AND FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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DAILY MARINE NEAR SHORE FORECAST FOR KENYAN COAST
Issued at: 1300 EAT on 30th July , 2021
Valid: 0000 EAT on 31stJuly, 2021 to 0000 EAT on 01st August, 2021



GENERAL OUTLOOK

Morning sea state:

- Moderate to strong S winds (13-22 knots) choppy seas. Moderate short period waves of (9sec) of 5-7feet (1.5-2.1 M) expected in Kwale, Mombasa, Kilifi and Lamu.

Afternoon sea state:

- Moderate to strong S Winds 13-26Knots with choppy seas. Moderate short period waves of (8sec) of (5-6)feet (1.5-1.8M) expected in Kwale, Mombasa, Kilifi and Lamu

Visibility:

- Reduced to Moderate visibility (7-10Km) expected in Kwale, Mombasa, Kilifi & Lamu.

1. COASTAL COUNTIES MARINE NEAR SHORE FORECAST

i. KWALE

- Morning Winds: SSW 14 to 20 knots.
- Morning Waves: ESE 5 feet at 8 seconds.
- Morning sea state: Breezy SSW winds with moderate choppy seas. Moderate short period waves.
- Afternoon Winds: S 13 to 20 knots.
- Afternoon Waves: ESE 5 feet at 8 seconds.
- Afternoon sea state: Breezy S winds with moderate choppy seas. Small short period waves.
- Sunrise; **6:31 AM** and sunset; **6:25 PM**
- Visibility: Moderate (**9-10 km**)
- High Tide: **9:00AM; 2.82m, 9:15PM; 2.52m**
- Low Tide: **2:30AM;0.95m, 3:04PM; 1.18m**

ii. MOMBASA

- Morning Winds: SSW 13 to 21 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 22 knots.
- Afternoon Waves: SE 6 feet at 8 seconds.
- Afternoon Sea State: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:28AM** and sunset; **6:24PM**
- Visibility: **Moderate (10 km)**
- High Tide: **9:01AM; 2.77m, 9:08PM; 2.42m**
- Low Tide: **2:33AM;0.84m, 3:13PM;1.15m**

iii. KILIFI

- Morning Winds: SSW 15 to 22 knots.
- Morning Waves: ESE 7 feet at 8 seconds.
- Morning sea state: Moderate to strong SSW winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 18 to 26 knots.
- Afternoon Waves: SE 6 feet at 8 seconds.
- Afternoon Sea State: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:28AM** and sunset; **6:24PM**
- Visibility: **Moderate (10 km)**
- High Tide: **8:50AM; 2.55m; 8:56PM; 2.17m**
- Low Tide: **2:23AM; 0.72m, 3:06PM; 1.02m**

iv. LAMU

- Morning Winds: S 16 to 21 knots.
- Morning Waves: SE 7 feet at 8 seconds.
- Morning sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Afternoon Winds: S 19 to 23 knots.
- Afternoon Waves: SE 6 feet at 8 seconds.
- Afternoon sea state: Moderate to strong S winds with choppy seas. Moderate short period waves.
- Sunrise; **6:22AM** and sunset; **6:22PM**
- Visibility: **Moderate (10km)**
- High Tide: **8:52AM; 2.46m;8:56PM; 2.07m;**
- Low Tide: **2:24AM; 0.67m, 3:08PM; 0.99m**

2. Advisory

- Slight to Moderate sea conditions are expected due to winds (13-26Knots), significant waves height of (1.5-2.1m) expected in Kwale, Mombasa, Kilifi and Lamu.
- Strong wind of 17-26 knots are expected in the afternoon

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!!!!
4.1 – 5.5 m (≈ 12.3 – 16.5 ft)	Very Rough	Warning in place and marine activities on hold

4. KEY ON SEA STATE

WIND	WIND SPEED RANGE (Knots)	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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