



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY
KENYA METEOROLOGICAL DEPARTMENT
MOI INTERNATIONAL AIRPORT, CONTROL TOWER
COUNTY DIRECTOR OF METEOROLOGICAL SERVICES
P.O. Box 98512-80100, MOMBASA
Mob. +254 731341118, **E-mail:** cdmmombasa@meteo.go.ke

Our Ref: MET/MSA-CNTY/WK 4 DECEMBER 2025





























Date of Issue: 22TH DECEMBER 2025

MOMBASA COUNTY WEEKLY WEATHER FORECAST VALID 23 – 29 DEC 2025

PART-I: Mombasa County Weekly Weather Outlook

- 1 We are expecting a significantly wet weather conditions during the forecast week, especially at the beginning of the forecast week. Several places will experience showers in the morning and afternoon during the forecast week.
 - 2 The expected range of daytime MAXIMUM temperature is 32 - 33 °C; the average MINIMUM temperature will be around 25 °C.
 - 3 Moderate winds are expected throughout the forecast week. Wind strength will vary between 5- 10 m/s (10– 20 Kt) throughout the forecast period.
 - 4 **Moderate sea conditions will prevail throughout the forecast week. Wave heights of between 1.0 m to 1.8 m (3.2 to 5.6 ft). the conditions are favourable for Marine activities**
 - 5 **CAUTION IS ADVISED WHILE CONDUCTING MARINE ACTIVITIES IN DEEP SEAS DURING THE WEEK**
-

PART-II: Detailed Weekly Weather Forecast for Mombasa County

		Probable weather						
		Notes: Light rains < 1-5 mm; Moderate rains 5-20 mm; Heavy rains > 20 mm						
		Tue 23/12/2025	Wed 24/12/2025	Thurs 25/12/2025	Fri 26/12/2025	Sat 27/12/2025	Sun 28/12/2025	Mon 29/12/2025
Rainfall	Morning	 Showers and Sunny	 Showers and Sunny	 Showers and Sunny	 Cloudy and Sunny	 Showers and Sunny	 Cloudy and Sunny	 Cloudy and Sunny
	Afternoon	 Cloudy and Sunny	 Showers and Sunny	 Cloudy and Sunny	 Cloudy and Sunny intervals	 Cloudy and Sunny	 Cloudy and sunny	 Cloudy and Sunny
	Night	 Partly Cloudy	 Partly Cloudy	 Partly Cloudy	 Partly Cloudy	 Partly cloudy	 Partly Cloudy	 Partly Cloudy
	Distribution	 Several places	 Several Places	 A few places	 Several places	 A few places	 Several places	 Several places
Temperature	Maximum	33 °C	33 °C	32 °C	32 °C	32 °C	32 °C	32 °C
	Minimum	25 °C	25 °C	25 °C	25 °C	25 °C	25 °C	25 °C
Humidity	Maximum	82 %	84 %	85 %	84 %	82 %	82%	85 %
	Minimum	72 %	70 %	74 %	72%	75 %	78 %	70 %
Wind Maximum	Speed & Direction	North East @ 10 m/s	North East @ 10 m/s	North East @ 8 m/s	North East @ 8m/s	North East @ 6 m/s	North East @ 5 m/s	North East @ 5 m/s
Significant Ocean wave height		1.4 – 1.8 m Moderate	1.2 – 1.8 m Moderate	1.4 – 1.6 m Moderate	1.2 – 1.6 m Moderate	1.0 – 1.5 m Moderate	1.0 – 1.2 m Slight	1.0 – 1.2 Slight

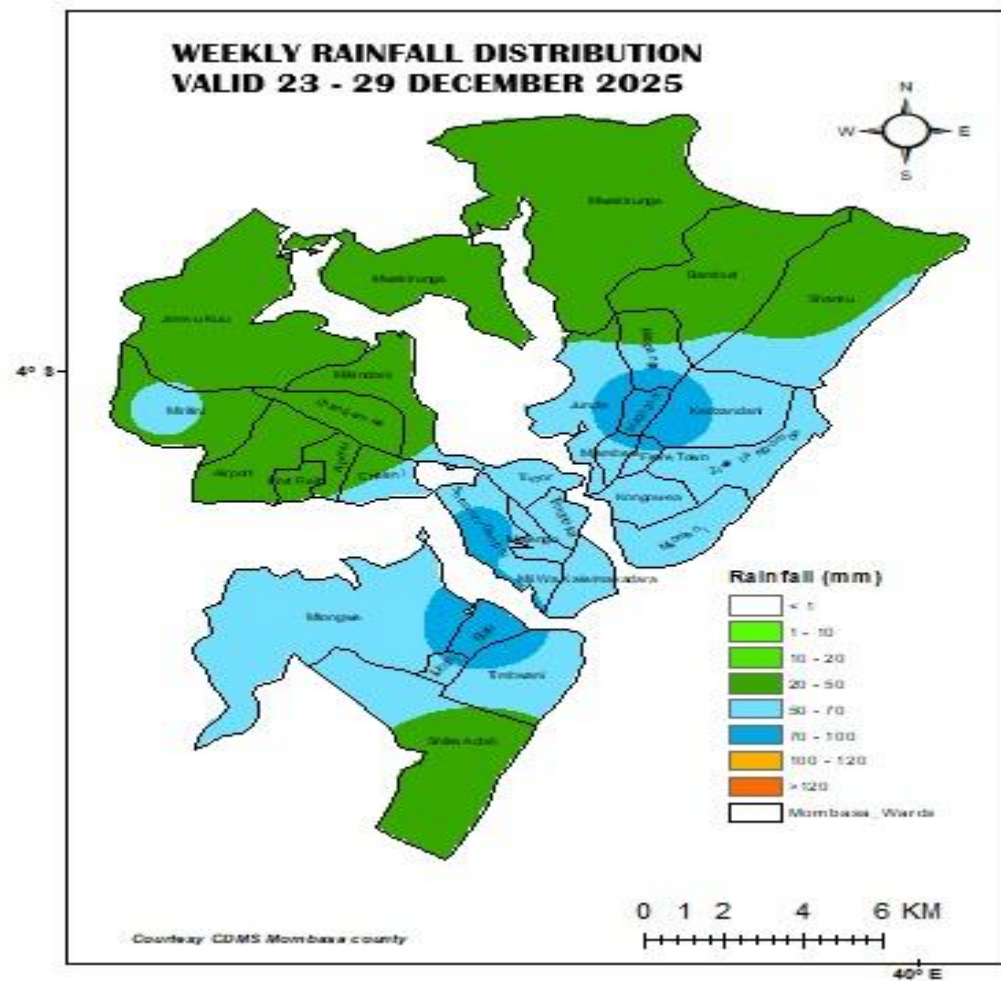
PART-III: WEATHER SYMBOLS

Key for Marine Hazard Symbols

WAVE HEIGHT RANGE (Metres)		DESCRIPTION	IMPACT
0.5 – 1.0		SLIGHT SEA STATE	Conditions suitable for Marine activities
1.1 – 2.0		MODERATE SEA STATE	
2.1 – 3.0		ROUGH	Caution when operating marine activities
>3.0		VERY ROUGH	Warning in place!!!! Warning in place on marine activities
Conditions suitable for Marine Activities			
Caution required when operating Marine Activities in deep seas (Significant high waves)			
Warning in Place (Sea significantly Rough)			
WIND	RANGE	DESCRIPTIONS	IMPACT
SPEEDS	< 1	-Calm:	1 – 6 knots, the Ocean is relatively calm with very little disturbance. Suitable for Marine operations
	1 – 3 Knots	-Light air: rising smoke drifts	
	4 – 6 Knots	-Light breeze: can feel wind on the face, small wavelets develop.	7 – 17 knots, small boats are likely to be filled with water sprays and become unstable. Caution in carrying our marine activities
	7 – 10 Knots	-Gentle breeze: Light weight flags extend, small wavelets, some whitecaps develop	
	11 – 16 Knots	-Moderate Breeze: Small waves develop and become longer	More than 20 knots, the ocean state is very much disturbed and the prevailing conditions is dangerous for marine operations. Warning in place!!!!
	17 – 21 Knots	-Fresh breeze: white crested wavelets form with some sprays	
	22 – 27 Knots	-Strong breeze: large waves form, white caps and sprays:	
	28 – 33 Knots	-Very strong winds: larger waves develop and white foams from breaking waves begin to be blown	
	>34 Knots	Extremely strong. Larger waves with blown foams	
DIRECTIONS	N, E, S, W	The pointer indicates the direction from which the wind is blowing from	

Mr. Joseph Amollo

County Director of Meteorological Services, Mombasa County

WEEKLY RAINFAL DISTRIBUTION VALID 23– 29 DECEMBER 2025

Rainfall totals 20 - 70 mm

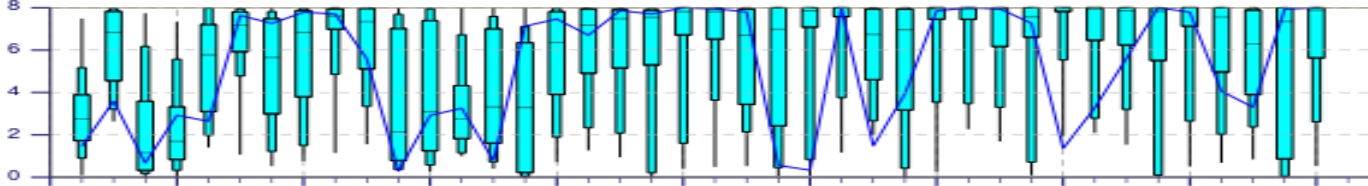
10 DAYS FORECASTS FOR WINDS, PRECIPITATIONS AND TEMPERATURE MOMBASA

ENS Meteogram

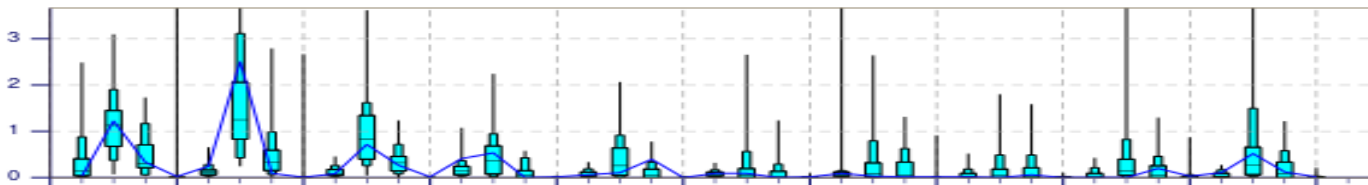
3.34°S 39.65°E (ENS land point) 133 m

Control Forecast and ENS Distribution Monday 22 December 2025 00 UTC

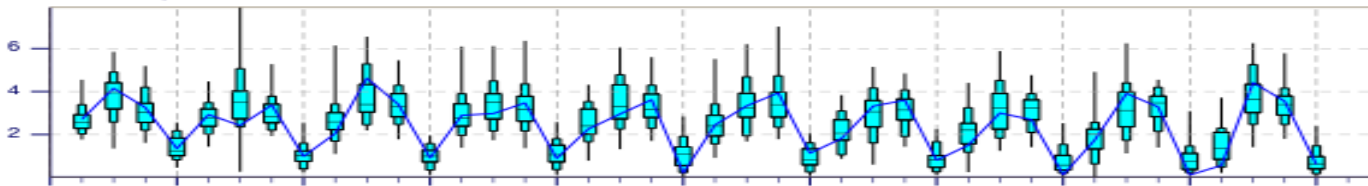
Total Cloud Cover (okta)



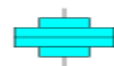
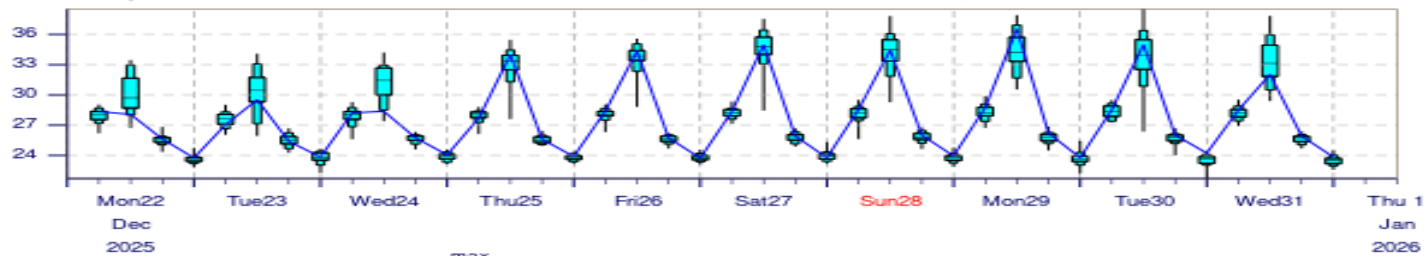
Total Precipitation (mm/6h)



10m Wind Speed (m/s)



2m Temperature(°C) reduced to 133 m (Station height) from 162m (Model height)



max
90%
75%
median
25%
10%
min

Control run

Control and perturbed members all run at ~9km resolution

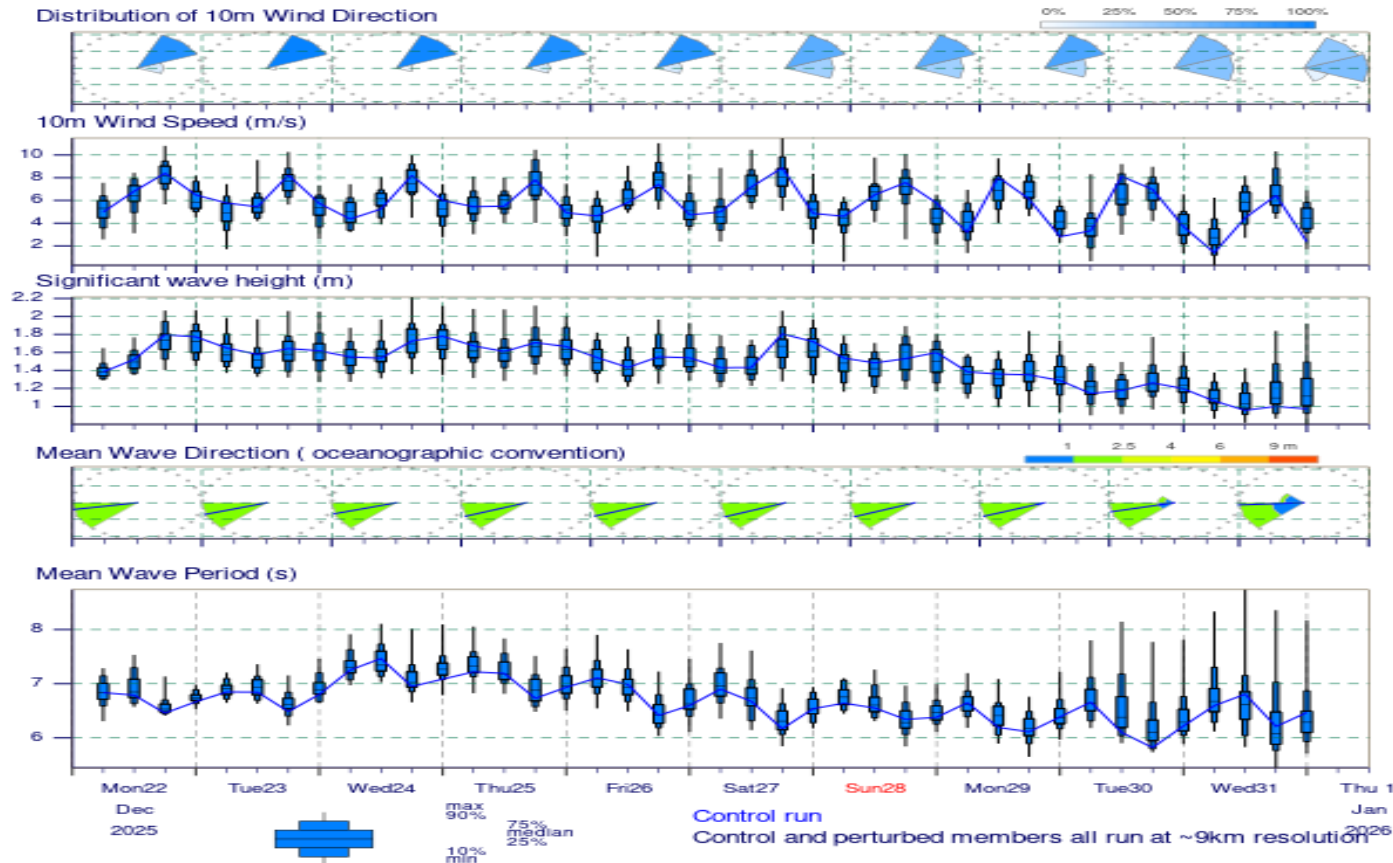
TEN DAYS SIGNIFICANT WAVE HEIGHTS, WINDS, OVER SOUTH WEST INDIAN OCEAN

Wave ENSgram

3.55°S 40.19°E (ENS sea point)

Monday 22 December 2025 00 UTC

Distribution of 10m Wind Direction



The distribution of wind directions are predominantly North East throughout the 10 days forecast period, the wind speeds vary between 4m/s and 9 m/s, the significant wave heights vary between 1.2 m and 1.8 m. The wave directions are north Easterly (NE) and the wave periods between 6 and 8 seconds