



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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REF.NO: KMD/FCST/8-2024/MARINE/32

Date: 5th August, 2024

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 06/08/2024 - 12/08/2024**

1.0 GENERAL OUTLOOK

1.1 Wind Speed & Direction:

South-easterly winds are expected over Tanzania and Kenya waters; south-easterly turning to south-westerly winds are expected over Somalia waters with wind speeds of 10 to 25 knots (5-12.5 m/s) throughout the forecast period.

1.2 Sig. Wave Height and Direction:

South-easterly waves are expected over Tanzania and Kenya waters; south-easterly turning into south-westerly waves are expected over Somalia waters with wave heights of 1.2 –3.0m (\approx 4 – 10ft) throughout the forecast period.

1.3 Sea conditions

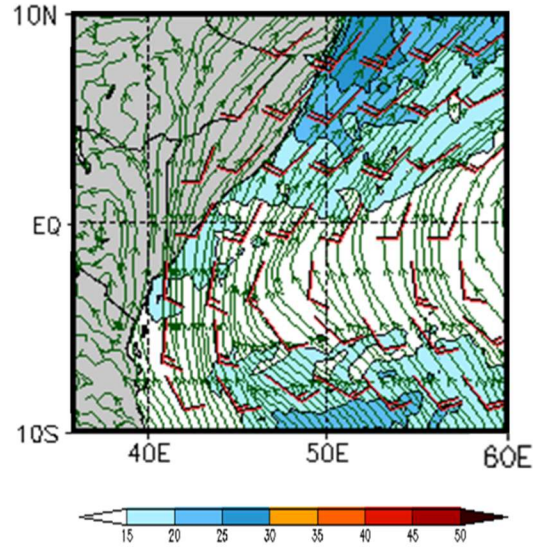
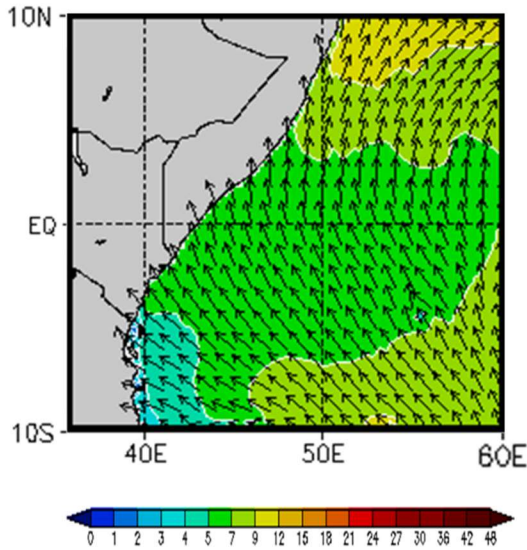
- Moderate to rough sea condition with wave heights of 1.2-3.0m (4-10ft) expected over the Somalia waters throughout the forecast period.
- Fresh to strong breeze with wind speeds of 5 – 12.5m/s (10 to 25 Knots) expected over Somalia waters throughout the forecast period.

2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 6TH AUGUST, 2024 TO 12TH AUGUST, 2024.

2.1 Tuesday 6th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 m to 3.0m (\approx 4– 10ft)

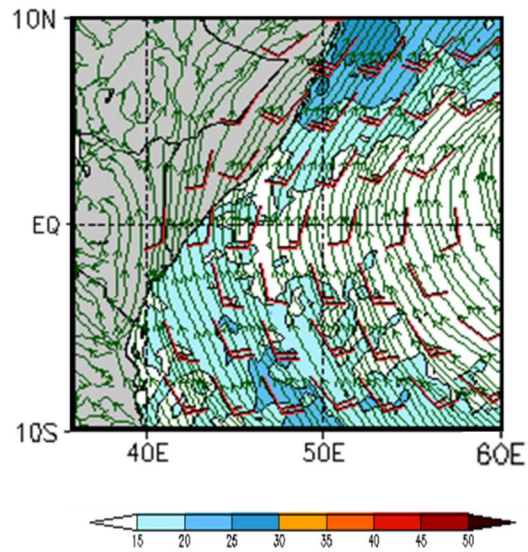
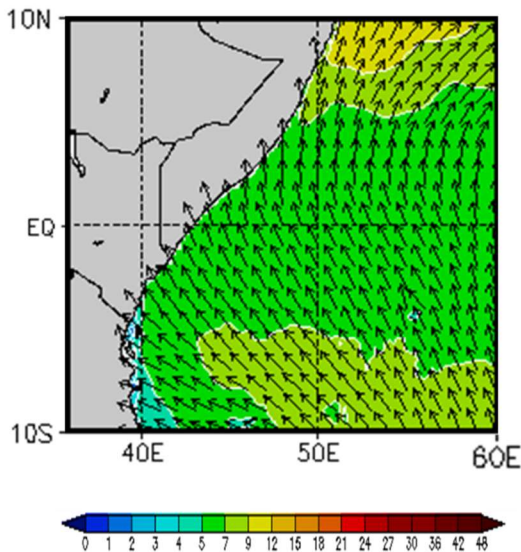
10m Winds: 10-25 knots (\approx 5 – 12.5 m/s)



2.2 Wednesday 7th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0 m (\approx 4 – 10ft)

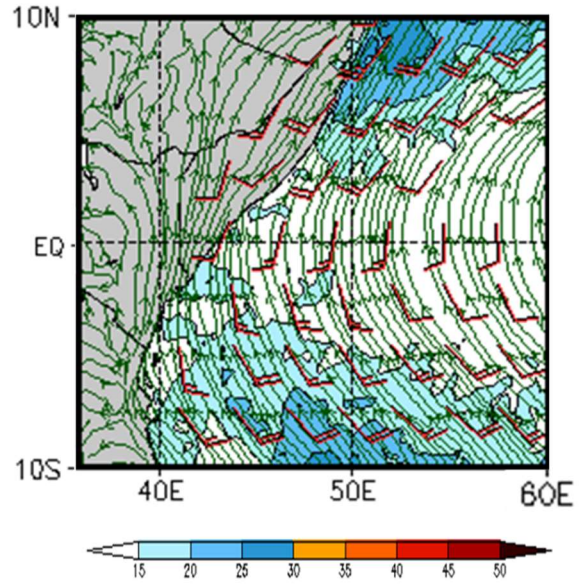
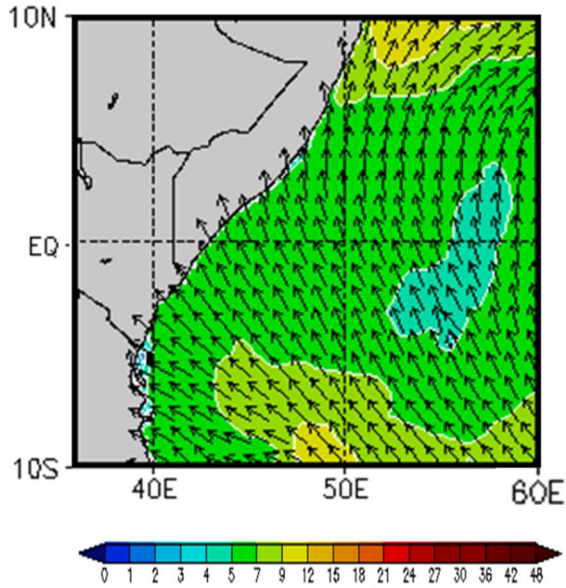
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.3 Thursday 8th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0m (\approx 4– 10ft)

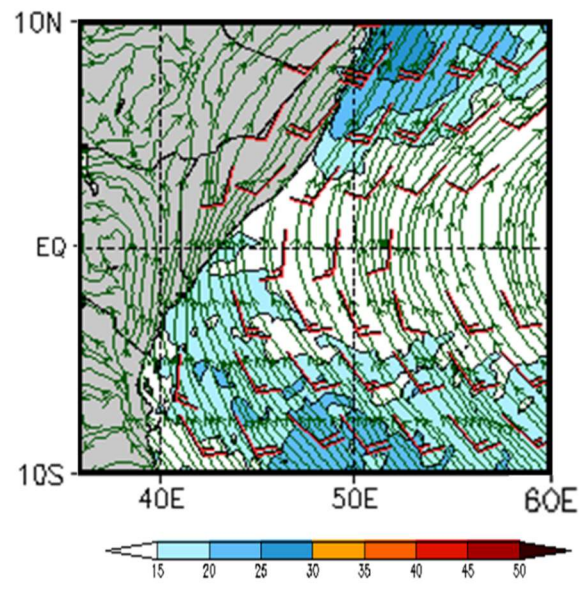
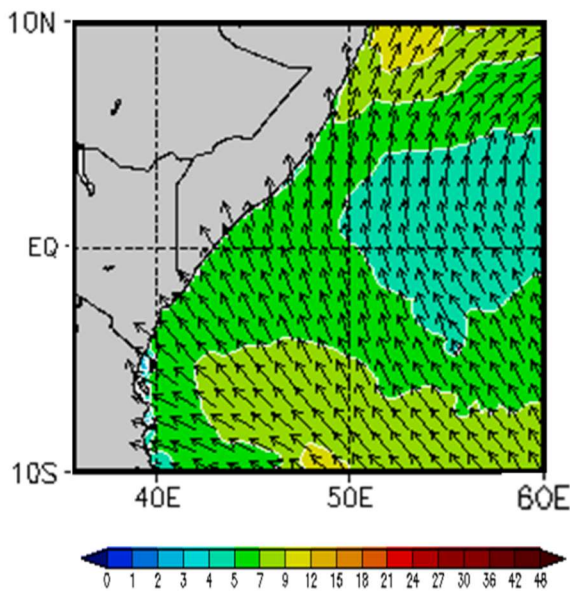
10m Winds: 10-25 knots (\approx 5-12.5 m/s)



2.4 Friday 9th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0 m (\approx 4– 10ft)

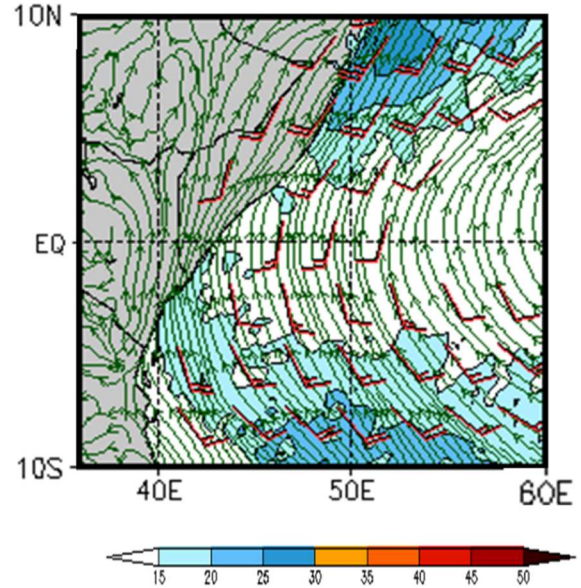
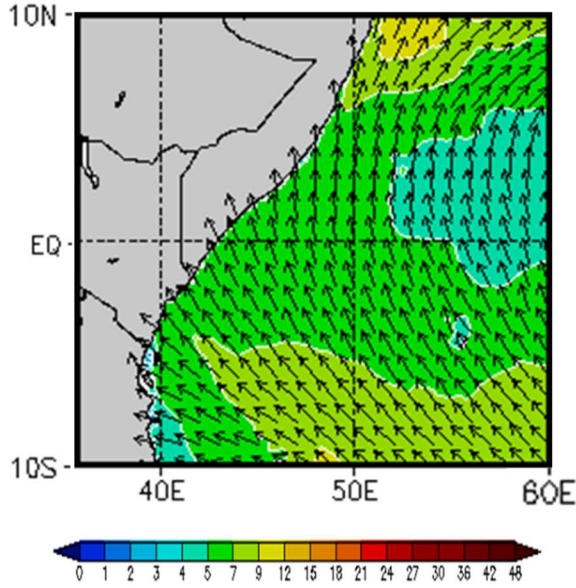
10m Winds: 10-25knots (\approx 5-12.5m/s)



2.5 Saturday 10th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0 m (\approx 4 –10ft)

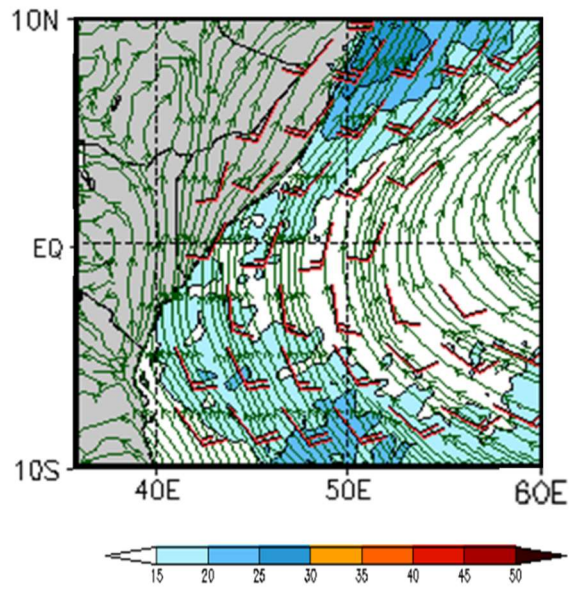
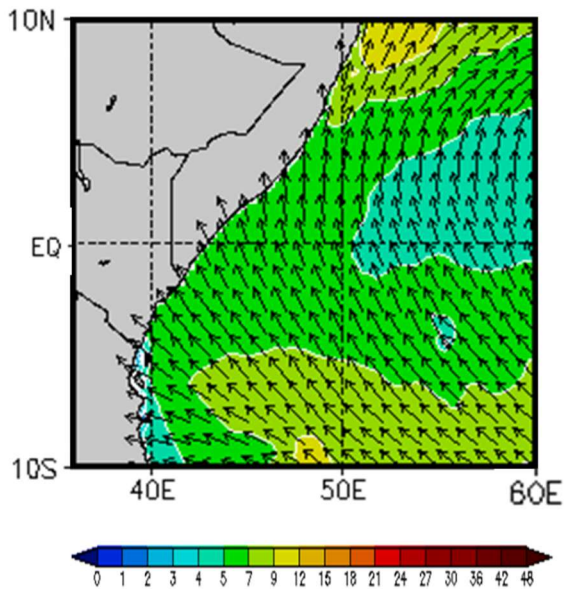
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.6 Sunday 11th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0m (\approx 4–10ft)

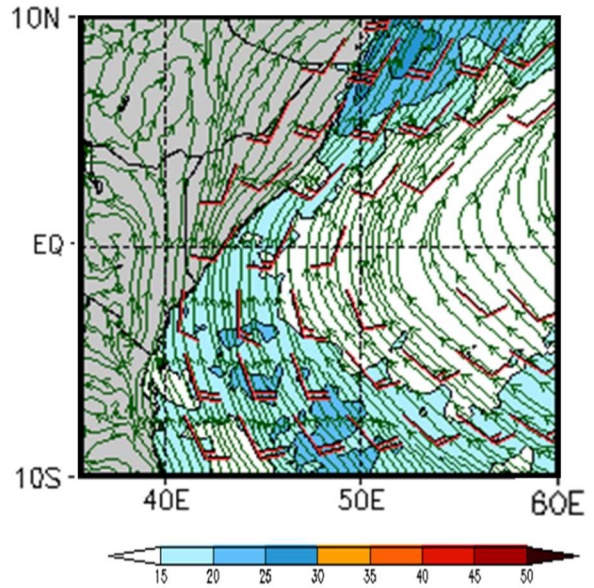
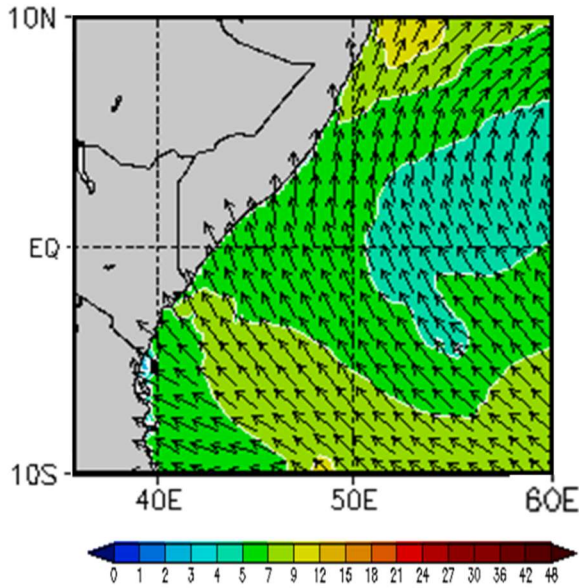
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.7 Monday 12th August, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.0m (\approx 4– 10ft)

10m Winds: 10-25 knots (\approx 5 – 12.5 m/s)

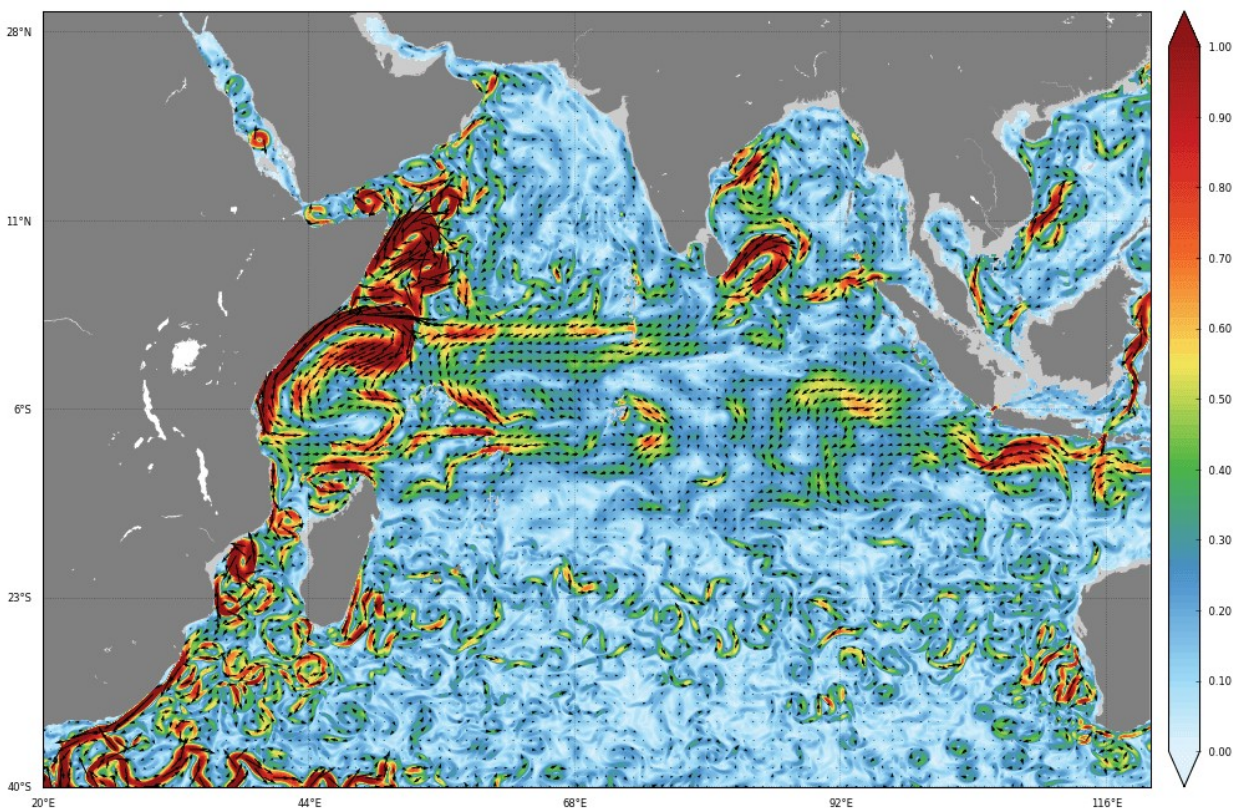


3.0 Tide forecast valid 6th August, 2024 to 12th August, 2024

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 6 th August, 2024	1 st Tide	05:30 AM	3.06 m	11:21 AM	0.53 m
	2 nd Tide	05:36 PM	3.40 m	11:49 PM	0.32 m
Wed 7 th August, 2024	1 st Tide	05:59 AM	3.13 m	11:53 AM	0.52 m
	2 nd Tide	06:05 PM	3.32 m		
Thur 8 th August, 2024	1 st Tide	06:27 AM	3.15 m	12:15 AM	0.35 m
	2 nd Tide	06:33 PM	3.20 m	12:24 PM	0.56 m
Fri 9 th August, 2024	1 st Tide	06:56 AM	3.12 m	12:41 AM	0.42 m

	2nd Tide	07:01 PM	3.04 m	12:56 PM	0.65 m
Sat 10th August, 2024	1st Tide	07:25 AM	3.05 m	01:08 AM	0.54 m
	2nd Tide	07:30 PM	2.83 m	01:28 PM	0.79 m
Sun 11th August, 2024	1st Tide	07:56 AM	2.94 m	01:34 AM	0.69 m
	2nd Tide	08:01 PM	2.60 m	02:04 PM	0.95 m
Mon 12th August, 2024	1st Tide	08:32 AM	2.81 m	02:03 AM	0.88 m
	2nd Tide	08:39 PM	2.35 m	02:47 PM	1.15m

4.0 9 days Ocean surface current in meters per seconds (m/s) forecast valid 05/08/2024 to 13/08/2024



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

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!!!!

N.B: This forecast should be used in conjunction with the daily marine forecast issued by this Department.

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.

Dr. David Gikungu
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