



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

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REF.NO: KMD/FCST/7-2024/MARINE/29

Date: 15th July, 2024

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 16/07/2024 - 22/07/2024**

1.0 GENERAL OUTLOOK

1.1 Wind Speed & Direction:

South-easterly winds are expected over Tanzania and Kenya waters; south-westerly winds are expected over Somalia waters with wind speeds of 10 to 30 knots (5-15 m/s) throughout the forecast period.

1.2 Sig. Wave Height and Direction:

South-easterly waves expected over Tanzania and Kenya waters; southerly turning into south-westerly waves expected over Somalia waters with wave heights of 1.2 –3.6m (\approx 4 – 12ft) throughout the forecast period.

1.3 Sea conditions

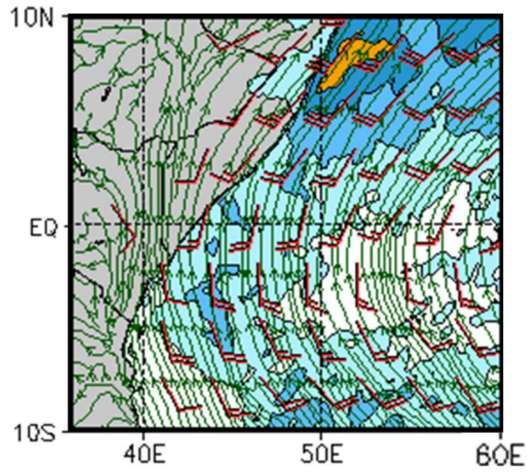
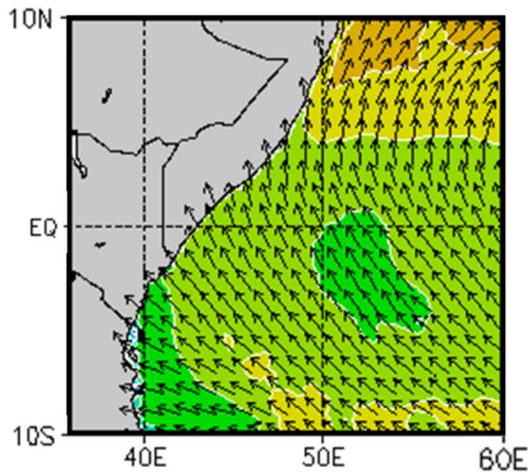
- Moderate to rough sea condition with wave heights of 1.2-3.6m (4-12ft) expected over the Somalia waters throughout the forecast period.
- Fresh to strong breeze with wind speeds of 5 – 30m/s (10 to 15 Knots) expected over Somalia waters throughout the forecast period.

2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 16TH JULY, 2024 TO 22ND JULY, 2024.

2.1 Tuesday 16th July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 m to 3.6m (\approx 4– 12ft)

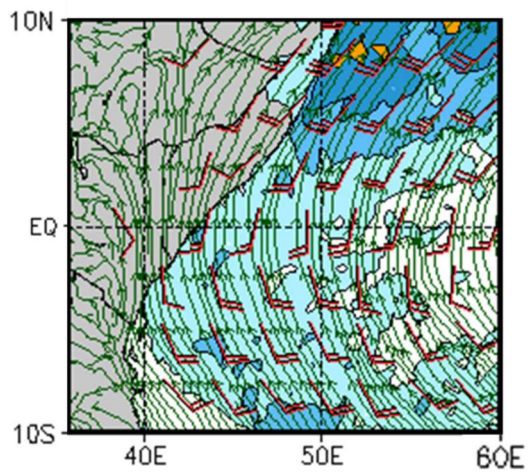
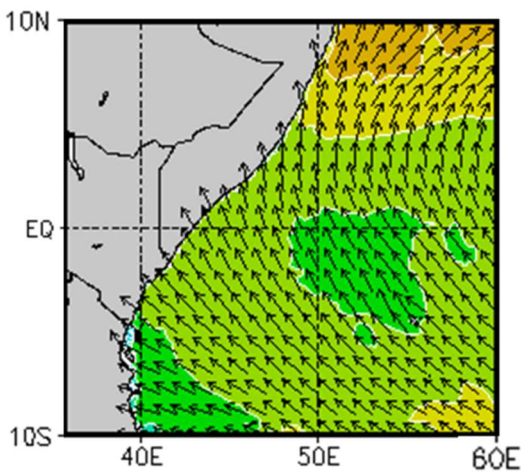
10m Winds: 10-25 knots (\approx 5 – 12.5 m/s)



2.2 Wednesday 17th July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6 m (\approx 4 – 12ft)

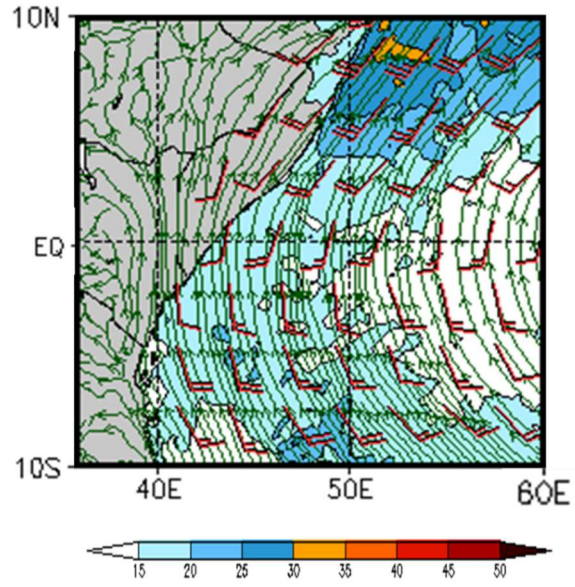
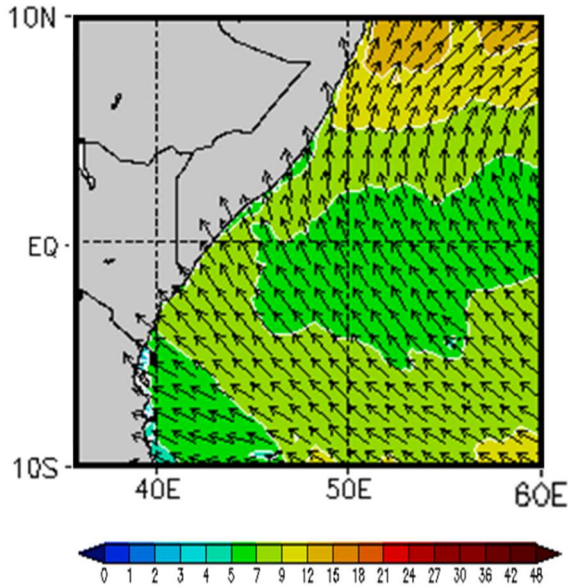
10m Winds: 10-30 knots (\approx 5 – 15m/s)



2.3 Thursday 18th July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6m (\approx 4– 12ft)

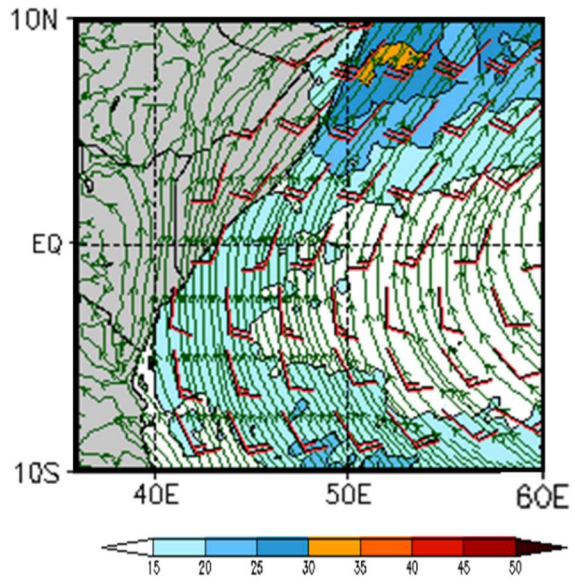
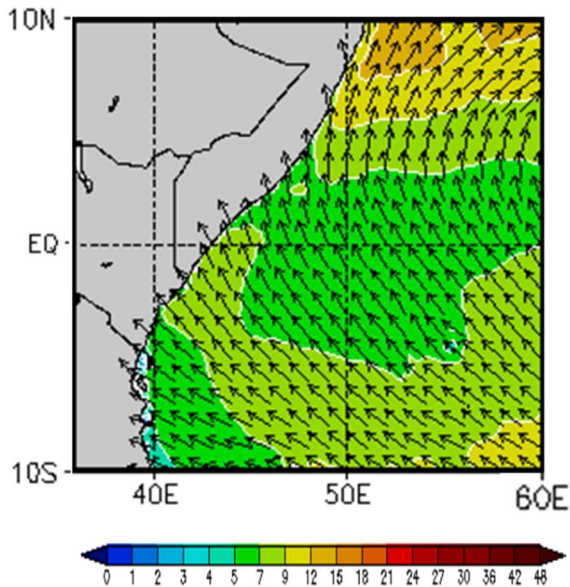
10m Winds: 10-30 knots (\approx 5-15 m/s)



2.4 Friday 19th July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6 m (\approx 4– 12ft)

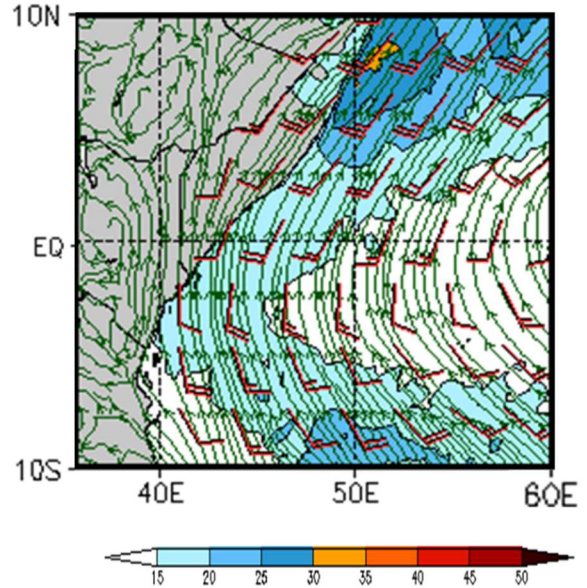
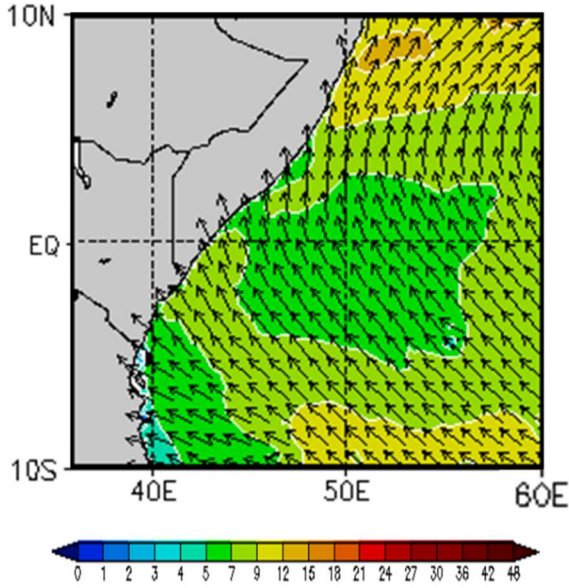
10m Winds: 10-30 knots (\approx 5-15m/s)



2.5 Saturday 20th July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6 m (\approx 4 –12ft)

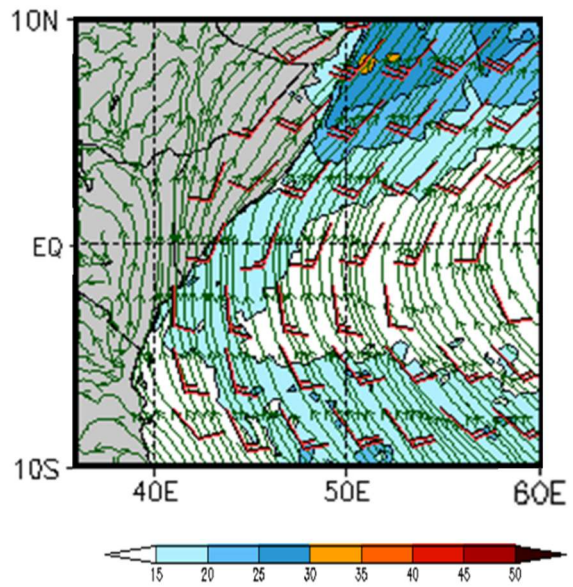
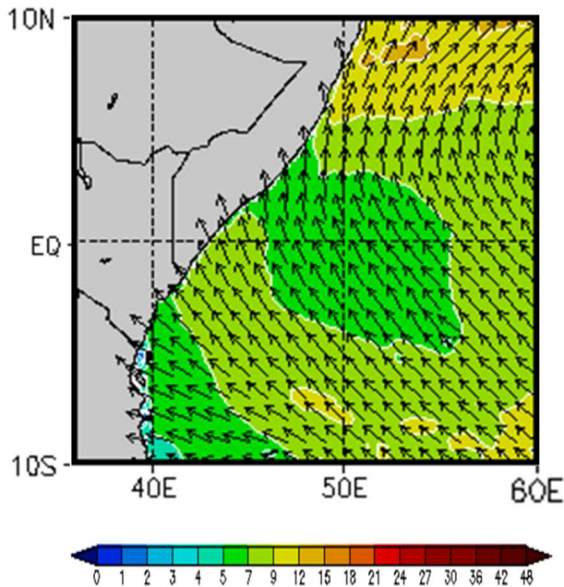
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.6 Sunday 21st July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6m (\approx 4–12ft)

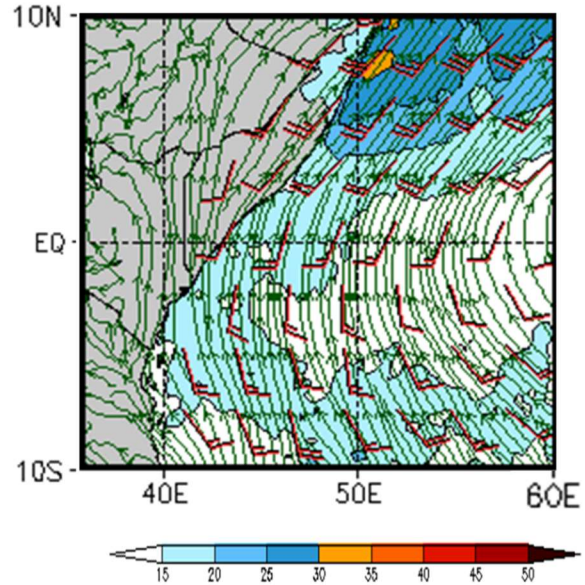
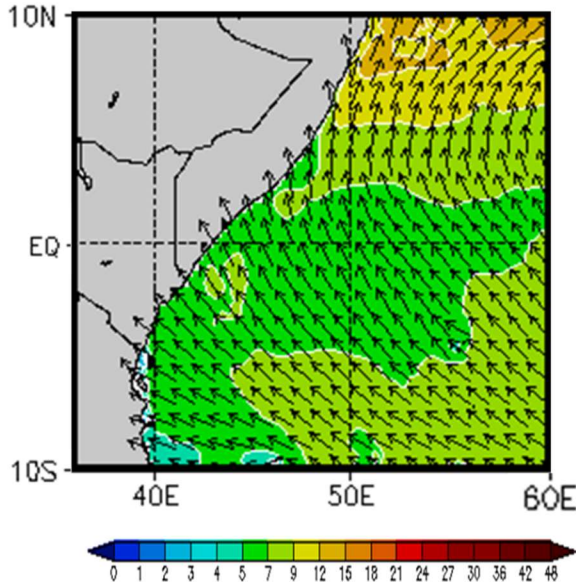
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.7 Monday 22nd July, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 3.6m (\approx 4– 12ft)

10m Winds: 10-30 knots (\approx 5 – 15 m/s)

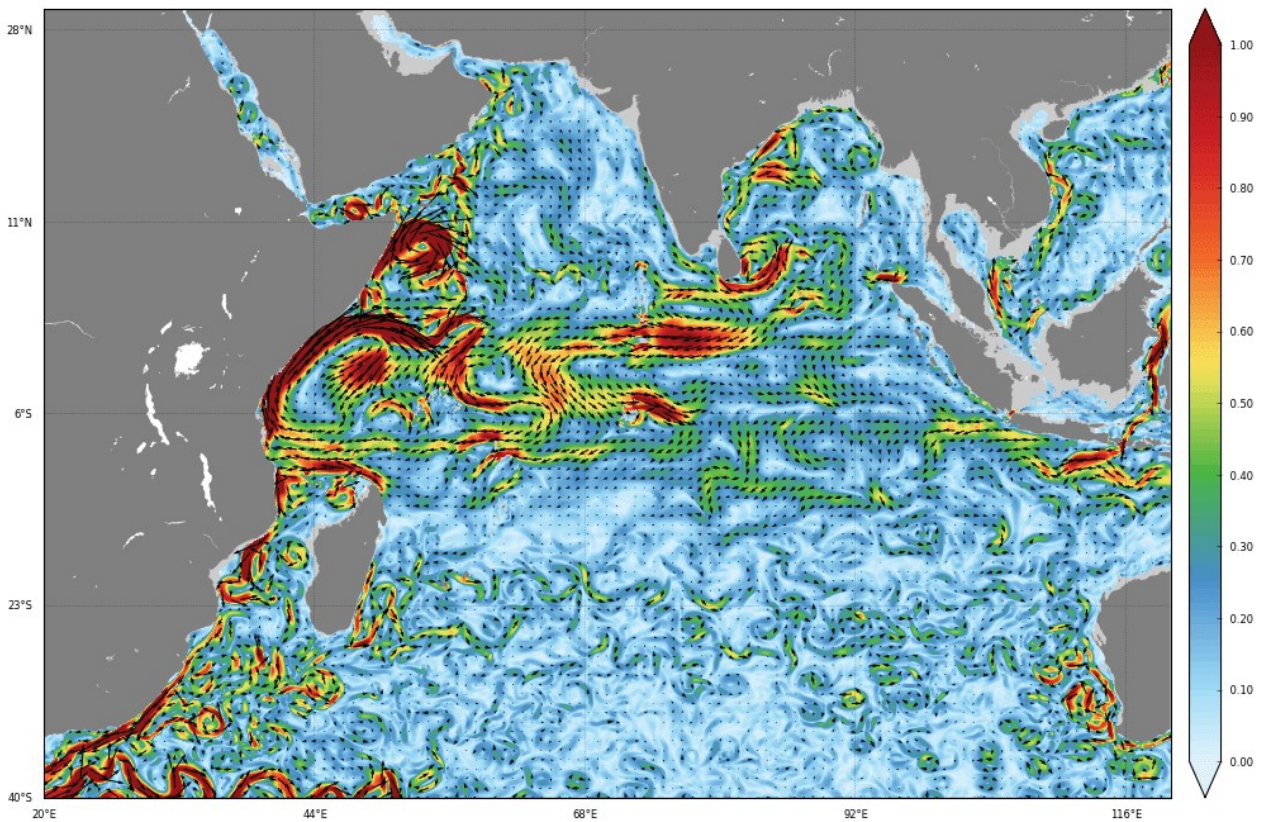


3.0 Tide forecast valid 16th July, 2024 to 22nd July, 2024

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 16 th July, 2024	1 st Tide	11:49 AM	2.63 m	04:57 AM	1.25 m
	2 nd Tide			06:39 PM	1.29 m
Wed 17 th July, 2024	1 st Tide	12:27 AM	2.10 m	06:13 AM	1.27 m
	2 nd Tide	01:02 PM	2.73 m	07:52 PM	1.13 m
Thur 18 th July, 2024	1 st Tide	01:48 AM	2.19 m	07:23 AM	1.20 m
	2 nd Tide	02:04 PM	2.92 m	08:47 PM	0.92 m
Fri 19 th July, 2024	1 st Tide	02:47 AM	2.35 m	08:22 AM	1.05 m
	2 nd Tide	02:55 PM	3.14 m	09:31 PM	0.69 m

Sat 20th July, 2024	1st Tide	03:34 AM	2.35 m	09:12 AM	0.87 m
	2nd Tide	03:40 PM	3.35 m	10:11 PM	0.48 m
Sun 21st July, 2024	1st Tide	04:16 AM	2.55 m	09:57 AM	0.68 m
	2nd Tide	04:22 PM	3.35 m	10:48 PM	0.30 m
Mon 22nd July, 2024	1st Tide	04:55 AM	2.55 m	10:41 AM	0.52 m
	2nd Tide	05:03 PM	3.53 m	11:25 PM	0.18 m

4.0 9 days Ocean surface current in meters per seconds (m/s) forecast valid 15/07/2024 to 23/07/2024



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.

Mr. Kennedy Thiong'o
FOR DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT