



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

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REF.NO: KMD/FCST/4-2024/MARINE/18

Date: 29th May, 2024

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 30/04/2024 - 06/05/2024**

1.0 GENERAL OUTLOOK

1.1 Wind Speed & Direction:

South-easterly to south-westerly winds are expected over Tanzania, Kenya and Somalia waters with wind speeds of 10 to 35 knots (5-17.5 m/s) throughout the forecast period.

1.2 Sig. Wave Height and Direction:

South to south-easterly waves expected over Tanzania, Kenya and Somalia waters with wave heights of 0.9 –4.5m (\approx 3 – 15ft) throughout the forecast period.

1.3 Sea conditions

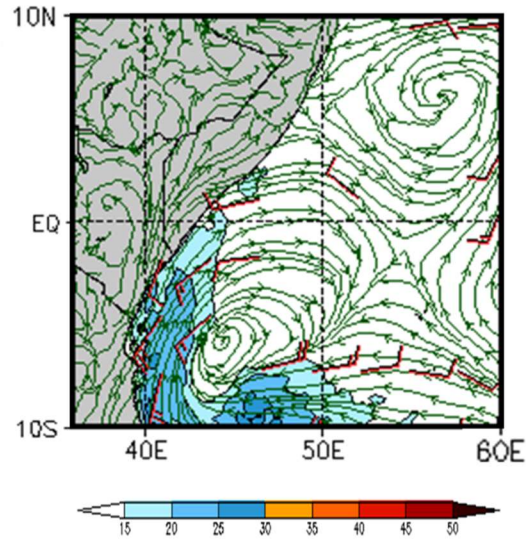
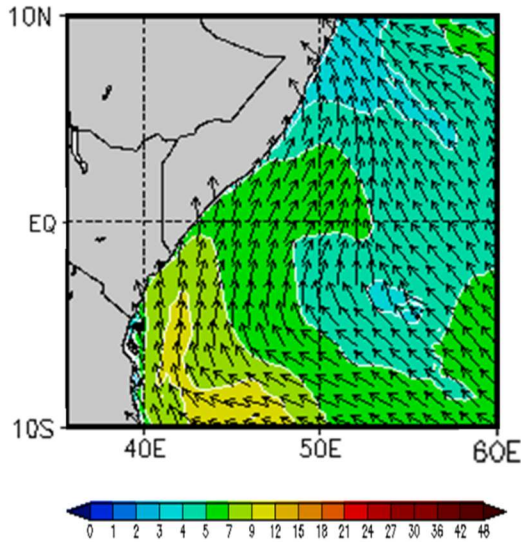
- Rough sea condition with wave heights of 0.9-4.5m (3-15ft) expected over the Tanzania waters on 2nd and 3rd May 2024.
- Fresh to strong breeze with wind speeds of (10 to 35 Knots) expected over Tanzaniawaters 2nd and 3rd May 2024.

2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 30TH APRIL, 2024 TO 06TH MAY, 2024.

2.1 Tuesday 30th April, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.9 m to 2.7m (\approx 3– 9ft)

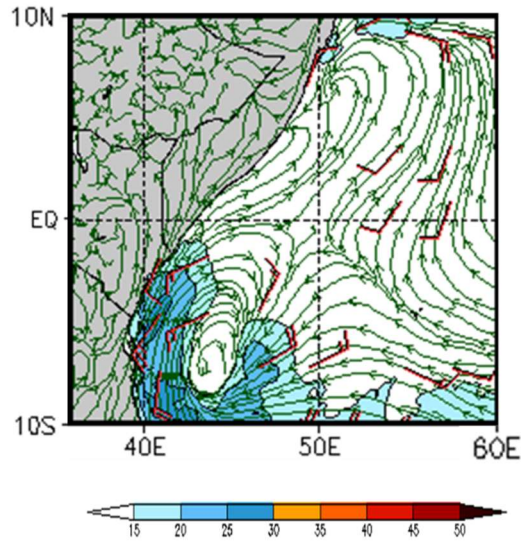
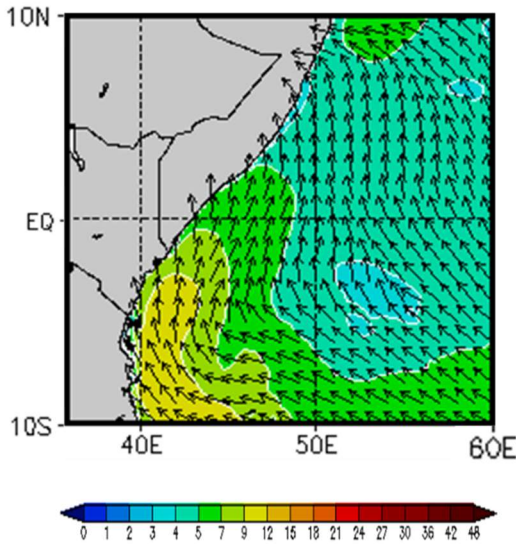
10m Winds: 10-25 knots (\approx 5 – 12.5 m/s)



2.2 Wednesday 1st May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.9 to 2.7 m (\approx 3 – 9ft)

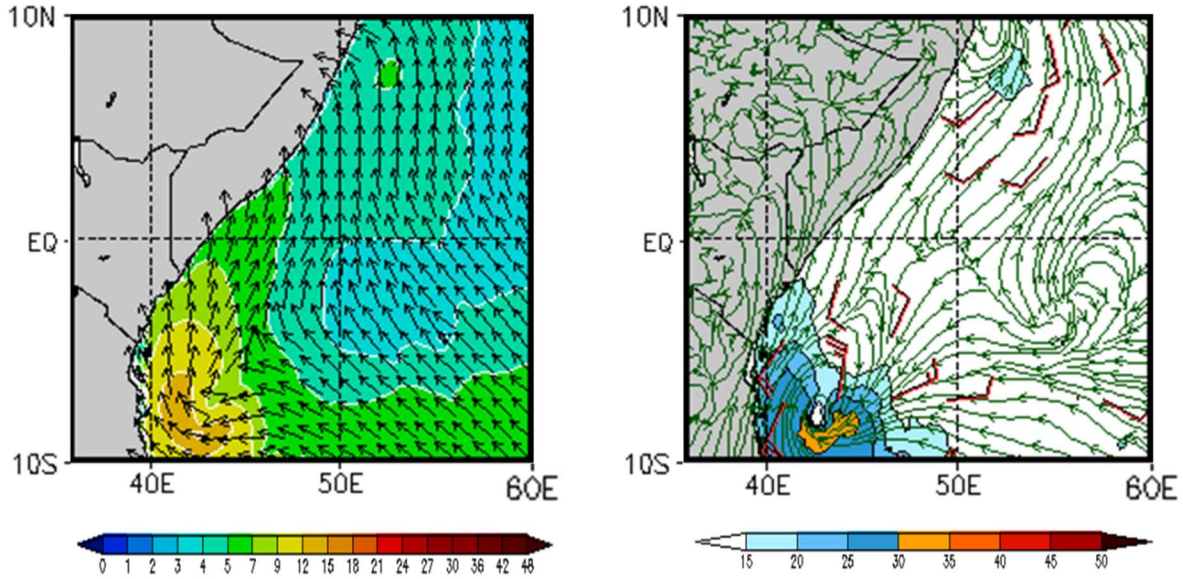
10m Winds: 10-25 knots (\approx 5 – 12.5m/s)



2.3 Thursday 2nd May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.9 to 3.0m (\approx 3– 10ft)

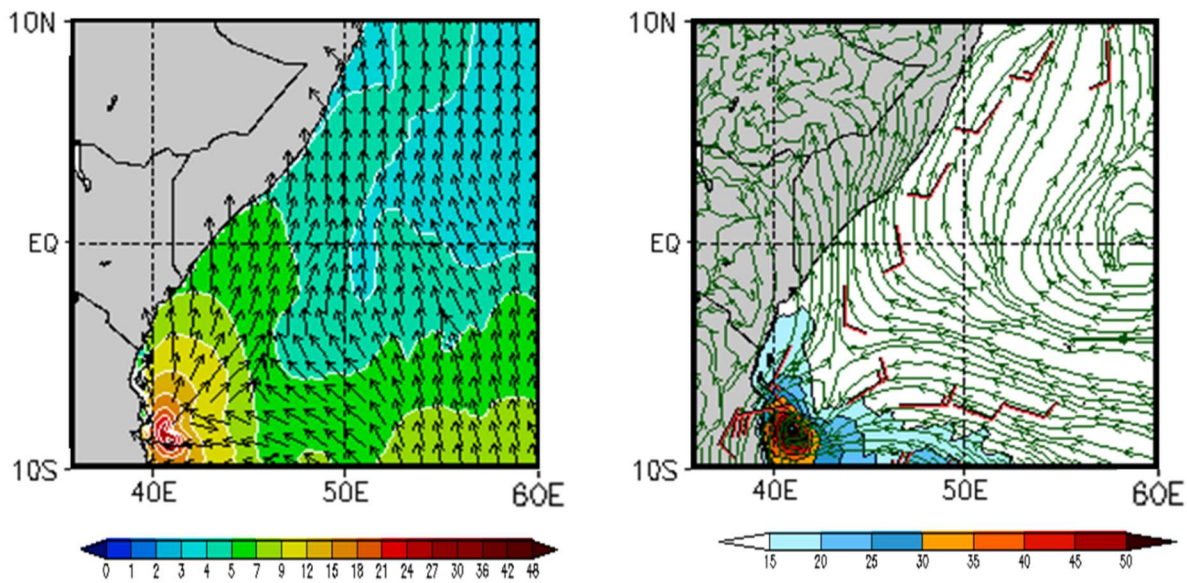
10m Winds: 10-30 knots (\approx 5-15 m/s)



2.4 Friday 3rd May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.9 to 4.5 m (\approx 3– 15ft)

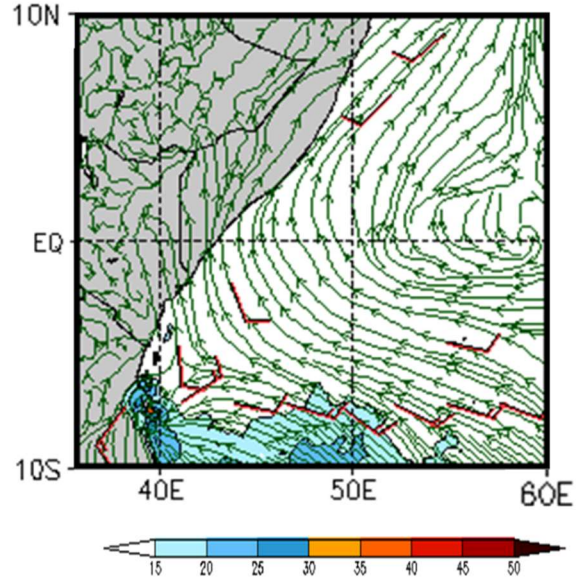
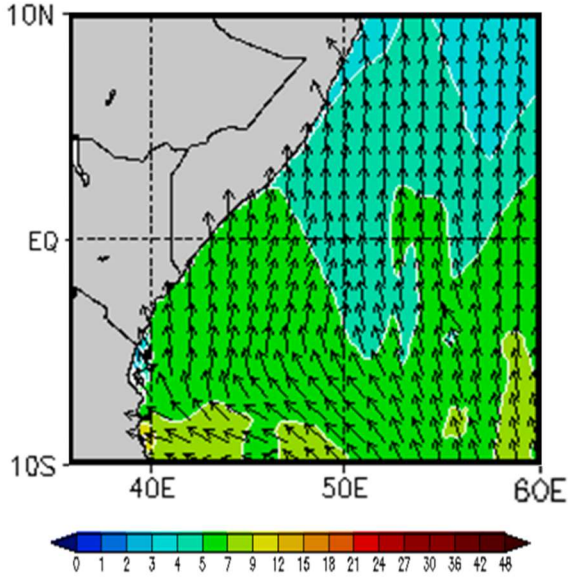
10m Winds: 10-35knots (\approx 5-17.5m/s)



2.5 Saturday 4th May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.9 to 2.1 m (\approx 3 –7ft)

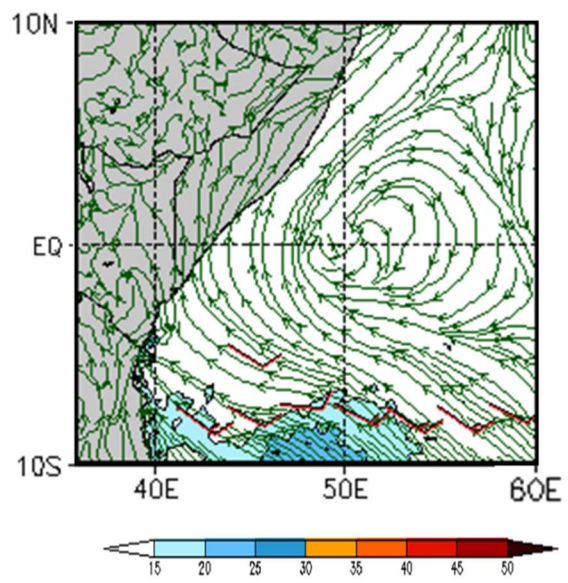
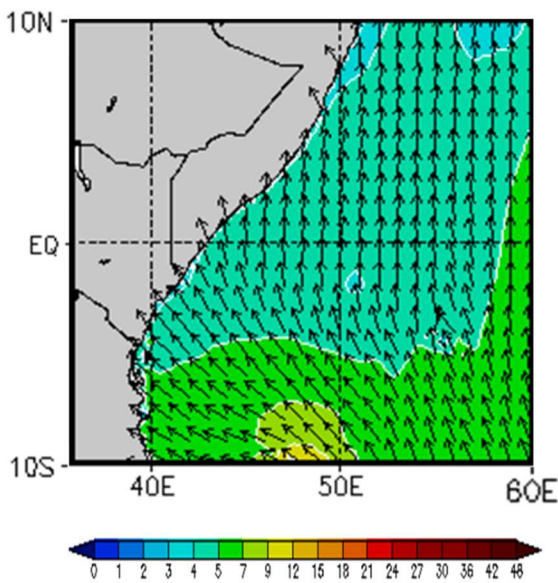
10m Winds: 10-20 knots (\approx 5 – 10m/s)



2.6 Sunday 5th May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.9 to 2.1m (\approx 3–7ft)

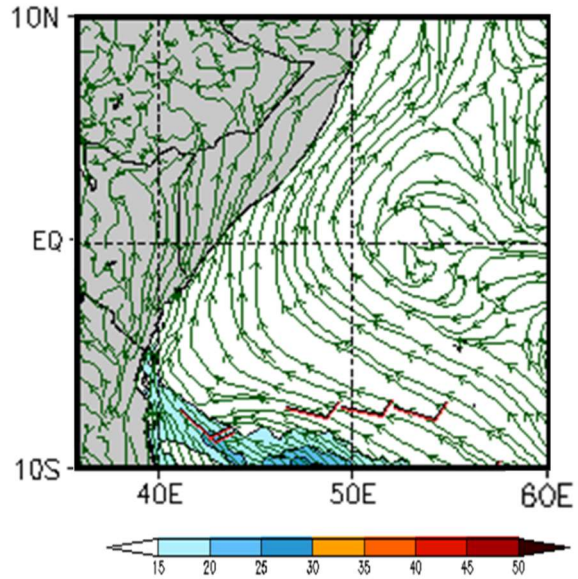
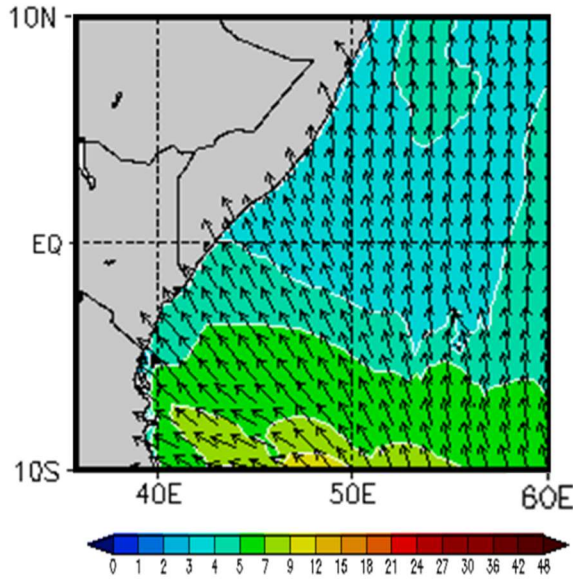
10m Winds: 10-15 knots (\approx 5 – 7.5m/s)



2.7 Monday 6th May, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 to 1.5m (\approx 2– 5ft)

10m Winds: 10-15 knots (\approx 5 – 7.5 m/s)

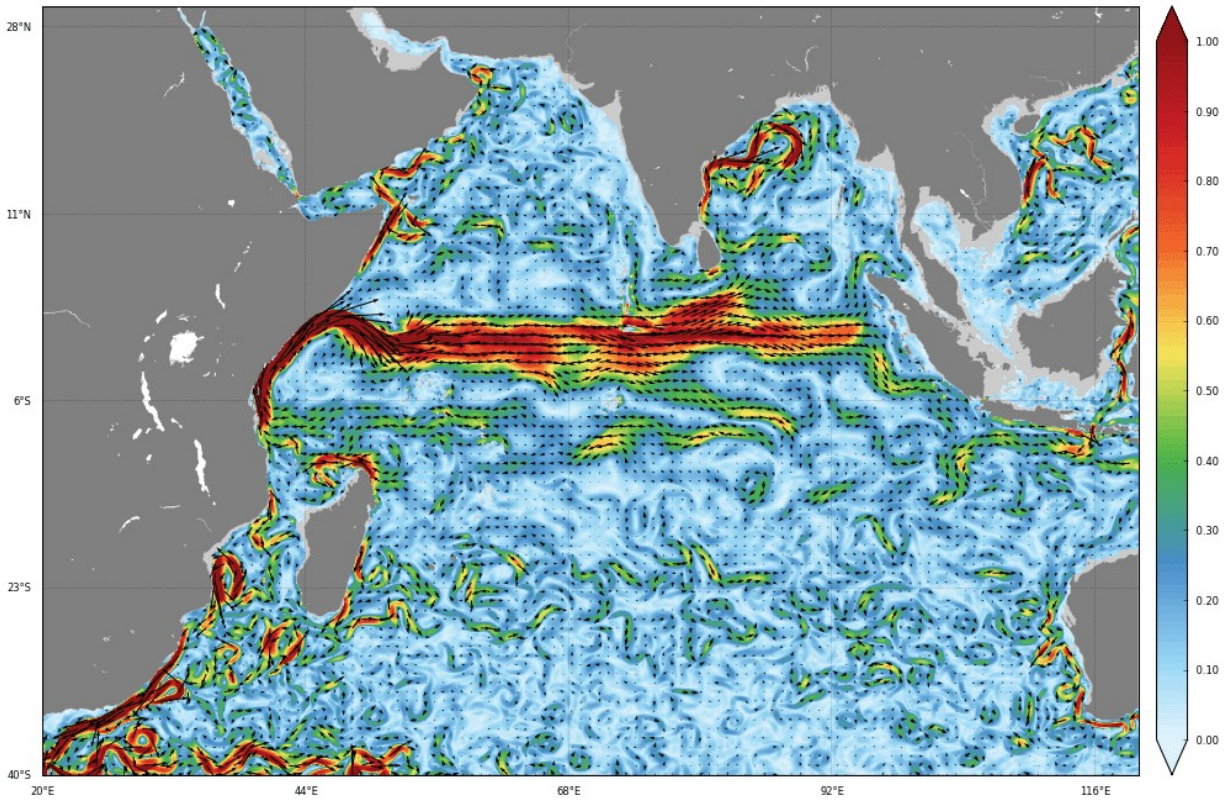


3.0 Tide forecast valid 30th April, 2024 to 6th May, 2024

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 30 th April, 2024	1 st Tide	07:56 AM	2.42 m	01:48 AM	0.90 m
	2 nd Tide	08:14 PM	2.88 m	01:33 PM	1.14 m
Wed 1 st May, 2024	1 st Tide	09:10 AM	2.26 m	02:52 AM	1.11 m
	2 nd Tide	09:35 PM	2.65 m	02:46 PM	1.37 m
Thur 2 nd May, 2024	1 st Tide	11:02 AM	2.29 m	04:29 AM	1.21 m
	2 nd Tide	11:26 PM	2.58 m	04:53 PM	1.44 m
Fri 3 rd May, 2024	1 st Tide	12:36 PM	2.56 m	06:07 AM	1.12 m

	2nd Tide			06:42 PM	1.21 m
Sat 4th May, 2024	1st Tide	12:55 AM	2.71 m	07:13 AM	0.91 m
	2nd Tide	01:36 PM	2.93 m	07:49 PM	0.87 m
Sun 5th May, 2024	1st Tide	01:57 AM	2.91 m	08:01 AM	0.68 m
	2nd Tide	02:23 PM	3.31 m	08:39 PM	0.53 m
Mon 6th May, 2024	1st Tide	02:47 AM	3.09 m	08:43 AM	0.47 m
	2nd Tide	03:05 PM	3.63 m	09:23 PM	0.26 m

4.0 9 days Ocean surface current in meters per seconds (m/s) forecast valid 29/04/2024 to 07/05/2024



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
DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT