



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

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REF.NO: KMD/FCST/2-2024/MARINE/8

Date: 26th FEB, 2024

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 27/02/2024 - 04/03/2024**

1.0 GENERAL OUTLOOK

1.1 Wind Speed & Direction:

Easterly winds are expected over Somalia and Kenya waters; south-easterly winds turning into Easterly over Tanzania waters with wind speeds of 5 to 15 knots (2.5-7.5 m/s) throughout the forecast period.

1.2 Sig. Wave Height and Direction:

South-easterly waves expected over Tanzania and Kenya waters; south easterly waves expected over Somalia waters with wave heights of 0.6 –1.5m (\approx 2– 5ft) throughout the forecast period.

1.3 Sea conditions

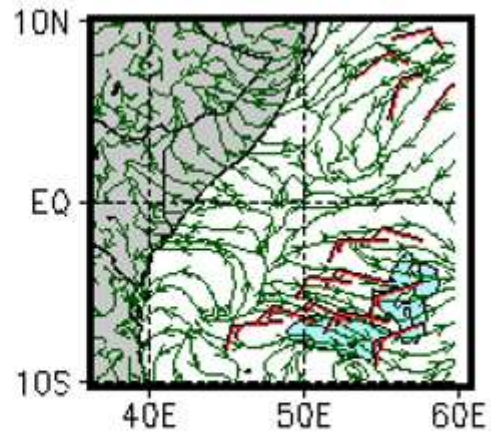
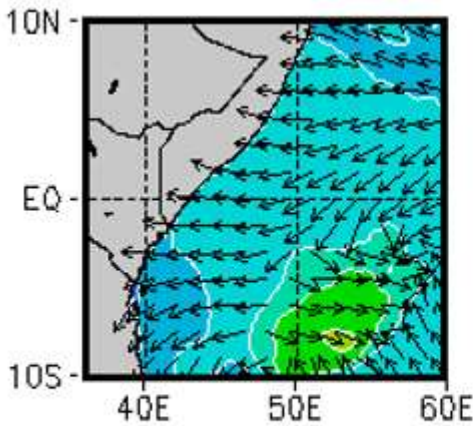
- Slight to moderate sea condition with wave heights of 0.6-1.5m (2-5ft) expected over Somalia, Kenya and Tanzania waters throughout the forecast period.
- Light to Gentle breeze with wind speeds of (5 to 15 Knots) expected over Somalia, Kenya and Tanzania waters throughout the forecast period.

2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 27TH FEBRUARY TO 04TH MARCH, 2024.

2.1 Tuesday 27th February, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 m to 1.2m (\approx 2– 4ft)

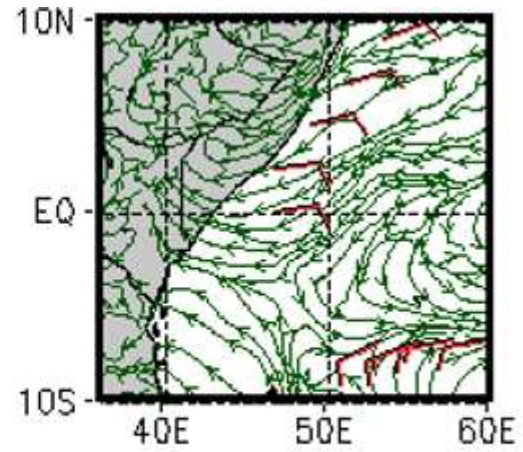
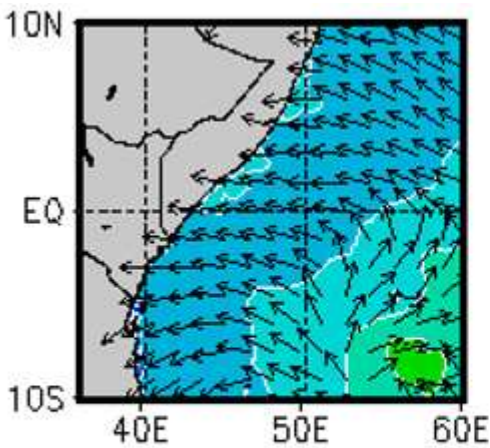
10m Winds: 5-10knots (\approx 2.5 – 5 m/s)



2.2 Wednesday 28th February, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 to 1.2 m (\approx 2 – 4ft)

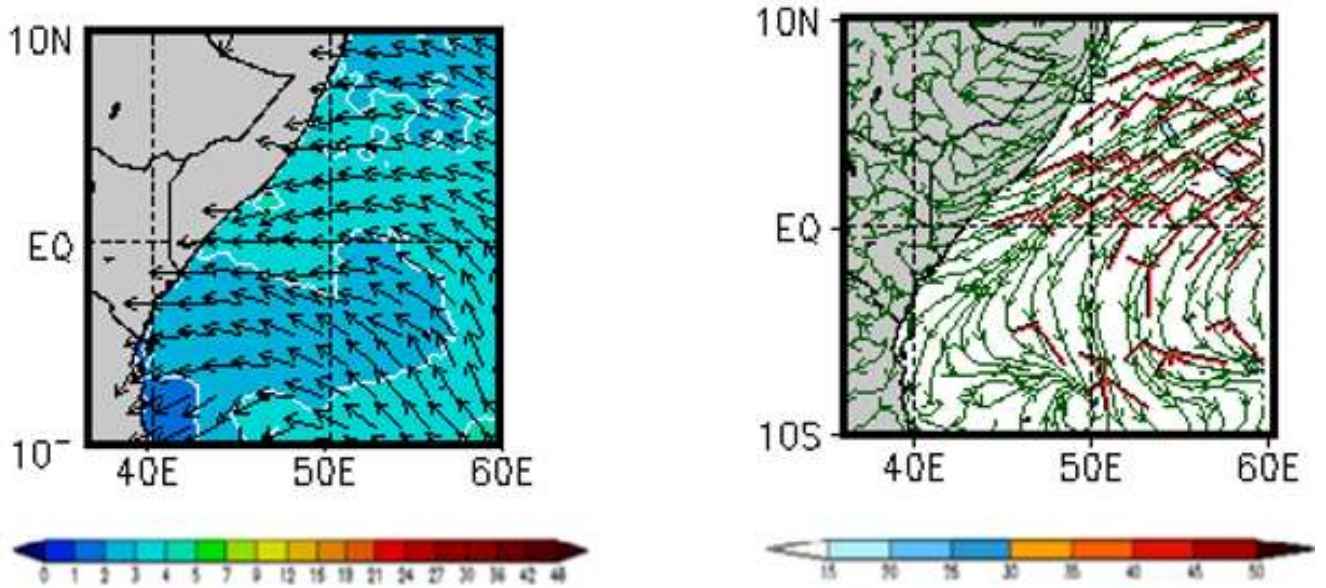
10m Winds: 10knots (\approx 5.0 m/s)



2.3 Thursday 29th February, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 to 1.2m (\approx 2– 4ft)

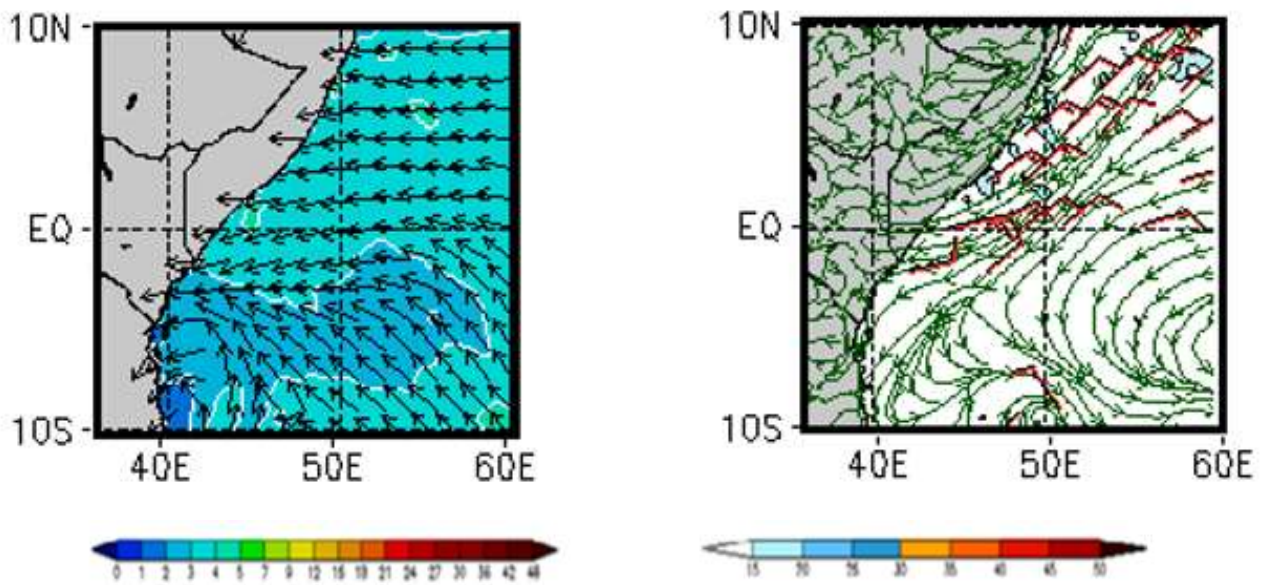
10m Winds: 10-15 knots (\approx 5 – 7.5m/s)



2.4 Friday 1st March, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 to 1.2 m (\approx 2– 4ft)

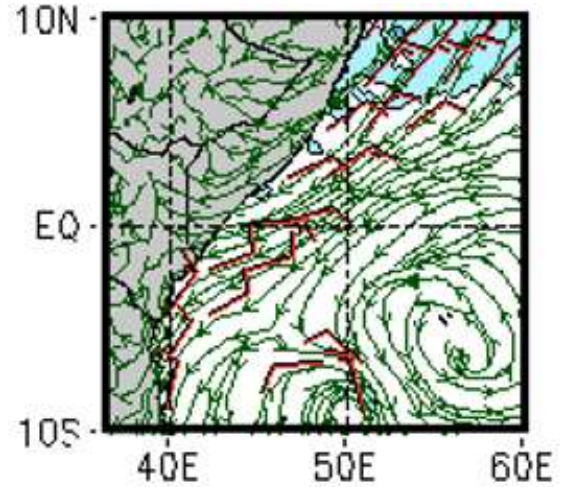
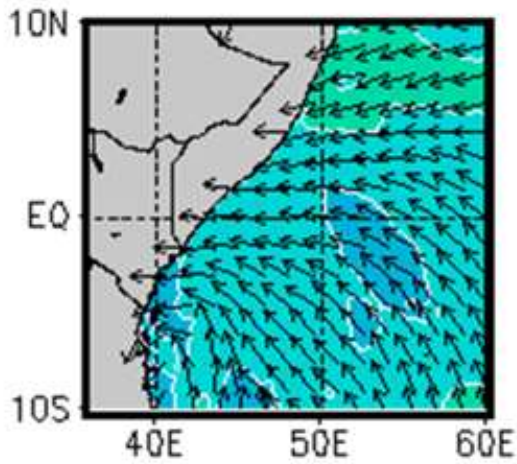
10m Winds: 10-15knots (\approx 5 – 7.5m/s)



2.5 Saturday 2nd March, 2024: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 0.6 to 1.2 m (\approx 2 –4ft)

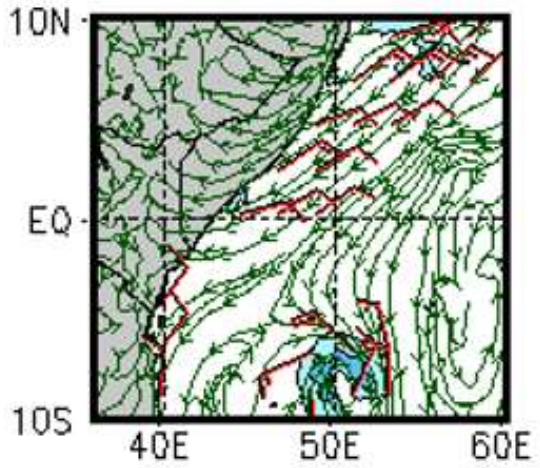
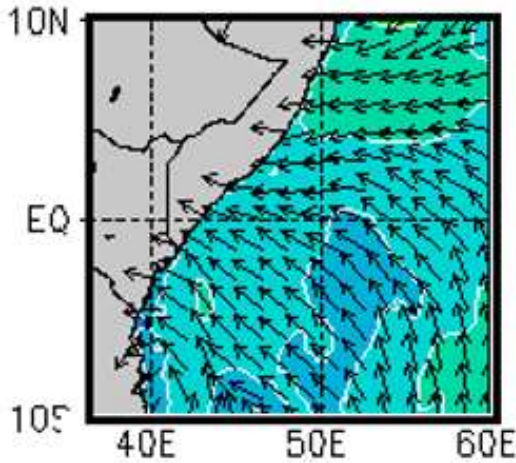
10m Winds: 10-15 knots (\approx 5 – 7.5m/s)



2.6 Sunday 3rd March, 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)

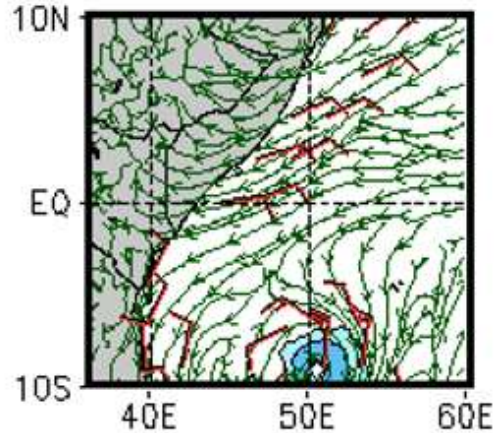
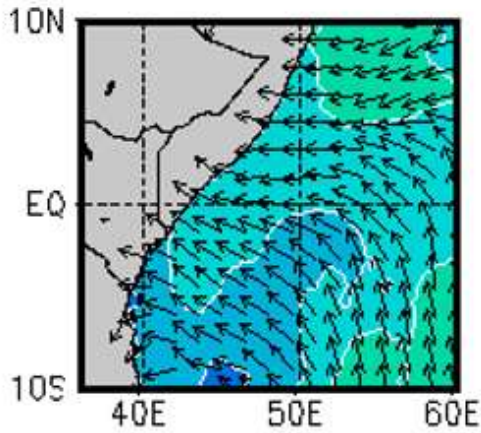
10m Winds: 10-15 knots (\approx 5 – 7.5m/s)



2.7 Monday 4th March, 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 knots (\approx 5 m/s)



3.0 Tide forecast valid 27th February, 2023 to 4th March, 2024

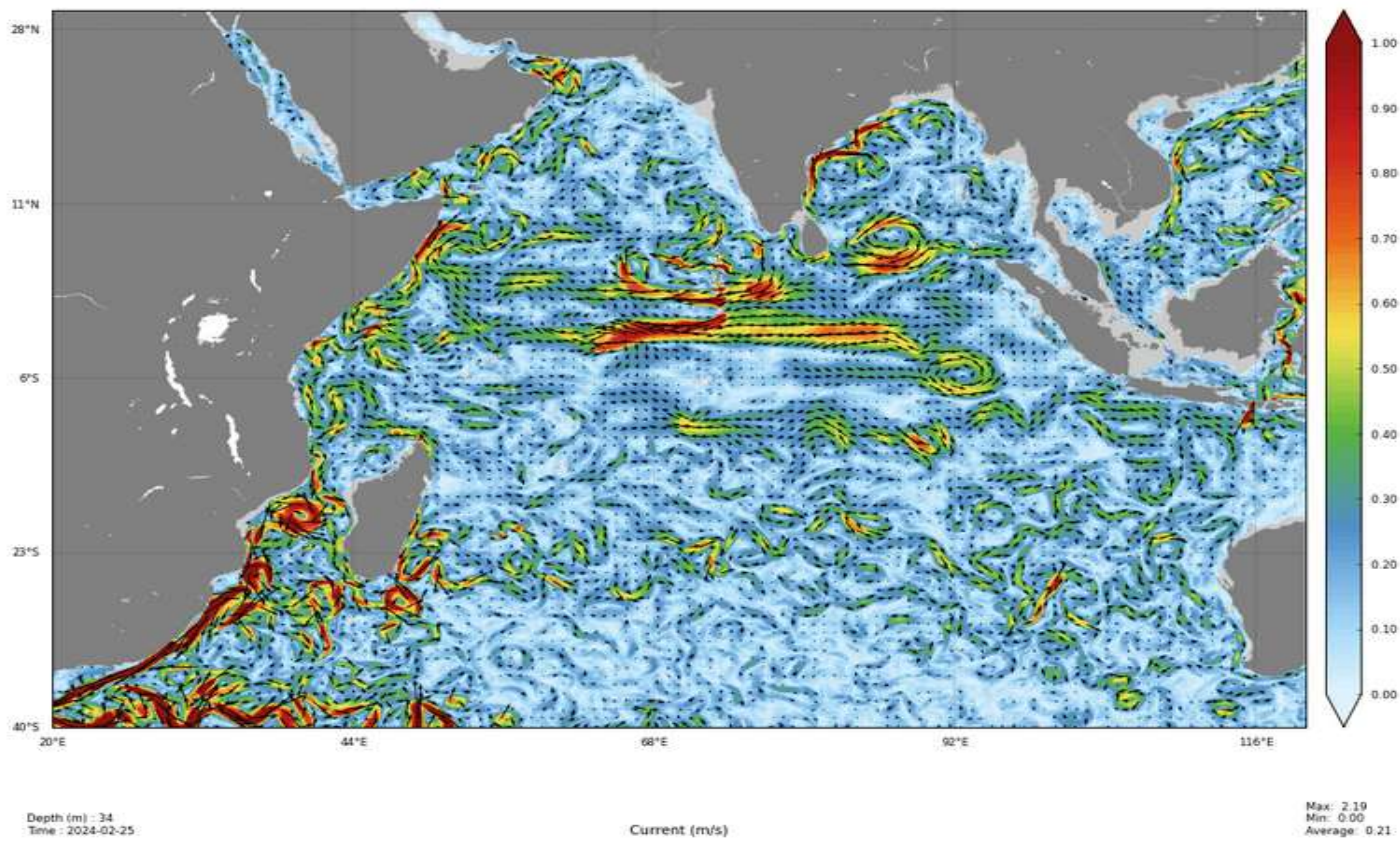
Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 27 th February, 2024	1 st Tide	03:52 AM	2.80 m	09:36 AM	0.59 m
	2 nd Tide	06:10 PM	3.42 m		
Wed 28 th February, 2024	1 st Tide	06:18 AM	3.32 m	12:12 AM	0.44 m
	2 nd Tide	06:35 PM	3.40 m	12:20 PM	0.38 m
Thur 29 th February, 2024	1 st Tide	06:44 AM	3.16 m	12:39 AM	0.52 m
	2 nd Tide	07:01 PM	3.32 m	12:43 PM	0.50 m
Fri 1 st March, 2024	1 st Tide	07:10 AM	2.96 m	01:07 AM	0.65 m
	2 nd Tide	07:28 PM	3.20 m	01:06 PM	0.66 m

Sat 2nd March, 2024	1st Tide	07:38 AM	2.72 m	01:38 AM	0.84 m
	2nd Tide	08:01 PM	3.03 m	01:32 PM	0.84 m
Sun 3rd March, 2024	1st Tide	08:12 AM	2.44 m	02:17 AM	1.07 m
	2nd Tide	08:45 PM	2.82 m	02:03 PM	1.07 m
Mon 4th March, 2024	1st Tide	09:02 AM	2.15 m	03:14 AM	1.32 m
	2nd Tide	10:00 PM	2.61 m	02:49 PM	1.32 m

4.0 9 days Ocean surface current in meters per seconds (m/s) forecast valid 25/02/2024 to 05/03/2024



Daily Global Physical Bulletin 1/12° (PSY4QV3R1)
Date: 2024-03-05 (9-day forecast)
Indian



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