



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

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REF.NO: KMD/FCST/9-2023/MARINE/40

Date: 25th September, 2023

**7-Day Marine Forecast for the KENYA coast and off shore areas
along the Western Indian Ocean Region
Validity: 26/09/2023 - 02/10/2023**

1.0 GENERAL OUTLOOK

1.1 Wind Speed & Direction:

South-easterly winds are expected over Tanzania and Kenya waters; southerly winds turning into south-westerly over Somalia waters with wind speeds of 10 to 20 knots (5-10 m/s) throughout the forecast period.

1.2 Sig. Wave Height and Direction:

South-easterly waves expected over Tanzania and Kenya waters; south-easterly turning into southerly waves expected over Somalia waters with wave heights of 1.2 –2.1m (\approx 4 – 7ft) throughout the forecast period.

1.3 Sea conditions

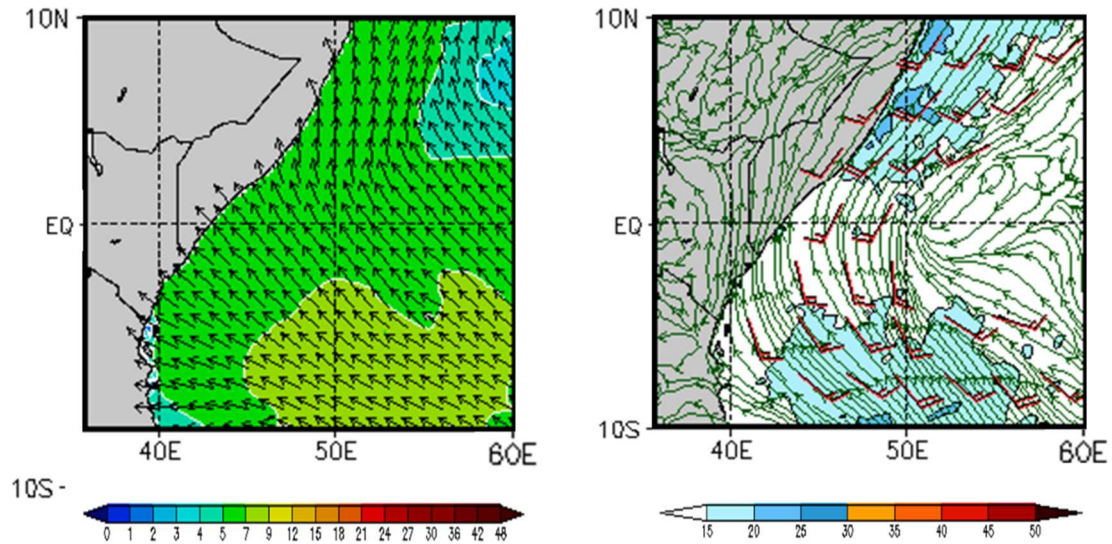
- Slight to moderate sea condition with wave heights of 1.2-2.1m (4-7ft) expected over the Western Indian Ocean basin throughout the forecast period.
- Gentle to fresh breeze with wind speeds of (10 to 20 Knots) expected over northern parts of Somalia waters throughout the forecast period.

2.0 WINDS AND SIGNIFICANT WAVE HEIGHTS FORECAST FOR THE PERIOD 26TH SEPTEMBER TO 2ND OCTOBER, 2023.

2.1 Tuesday 26th September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 m to 2.1m (\approx 4– 7ft)

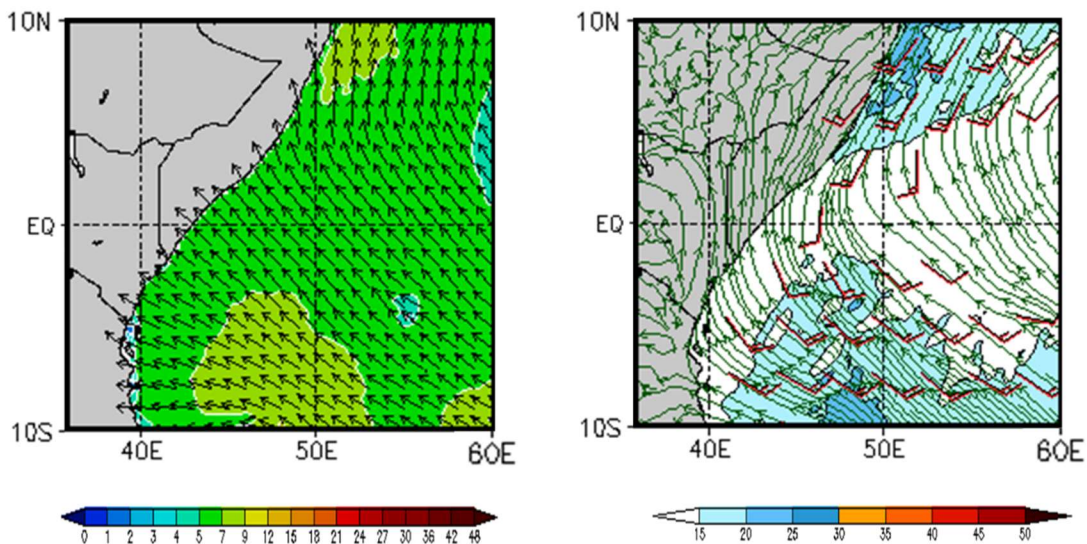
10m Winds: 10-20 knots (\approx 5 – 10 m/s)



2.2 Wednesday 27th September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 1.8 m (\approx 4 – 6ft)

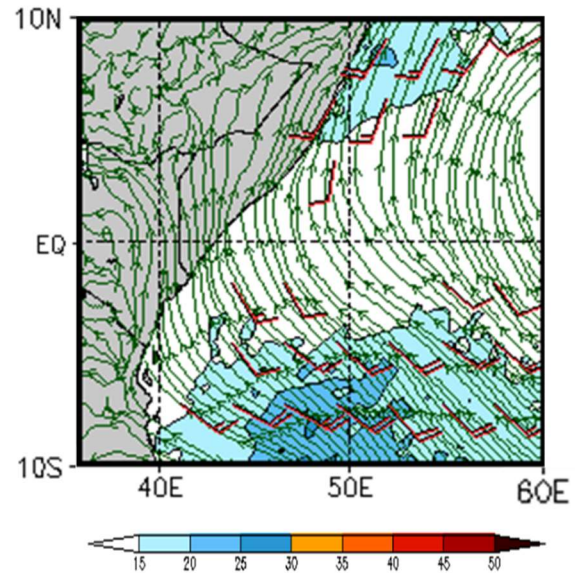
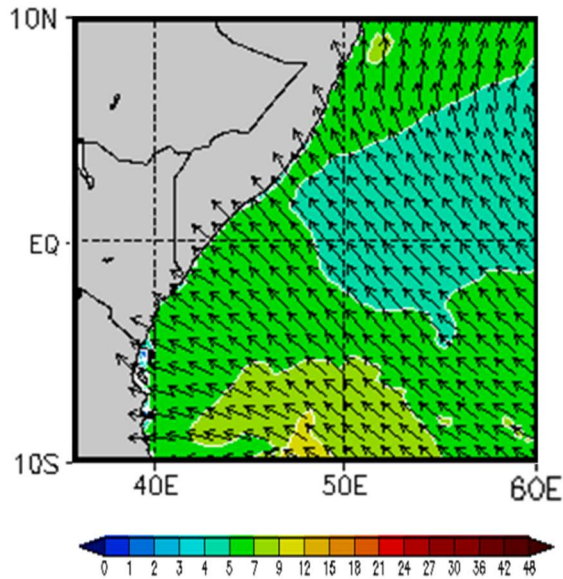
10m Winds: 10-20 knots (\approx 5 – 10m/s)



2.3 Thursday 28th September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.1m (\approx 4– 7ft)

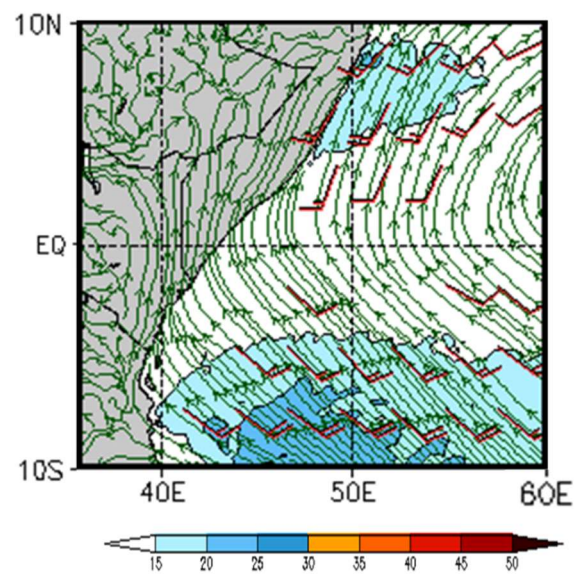
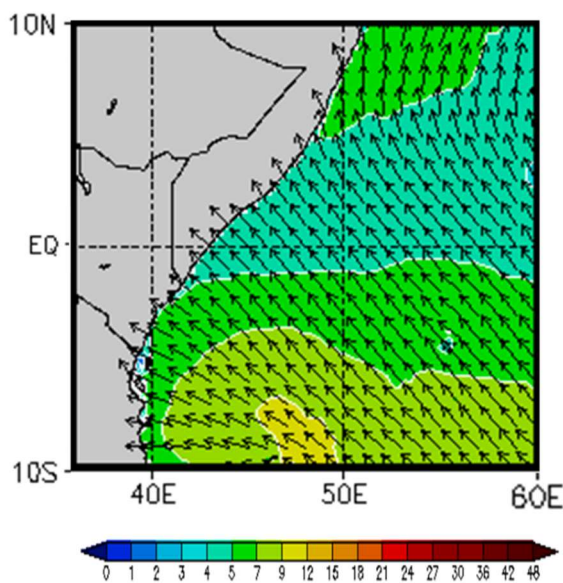
10m Winds: 10-20 knots (\approx 5 – 10m/s)



2.4 Friday 29th September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.1 m (\approx 4– 7ft)

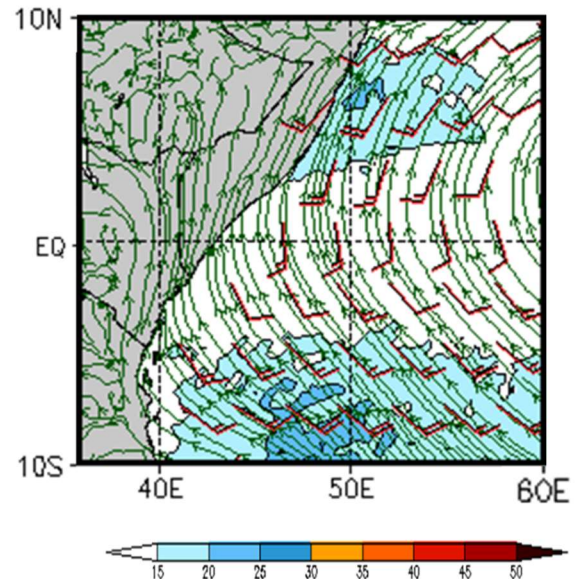
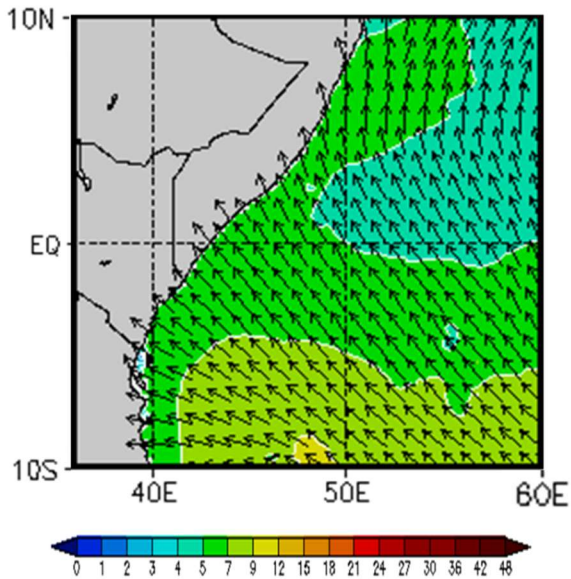
10m Winds: 10-20 knots (\approx 5 – 10m/s)



2.5 Saturday 30th September, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 2.1 m ($\approx 4-7$ ft)

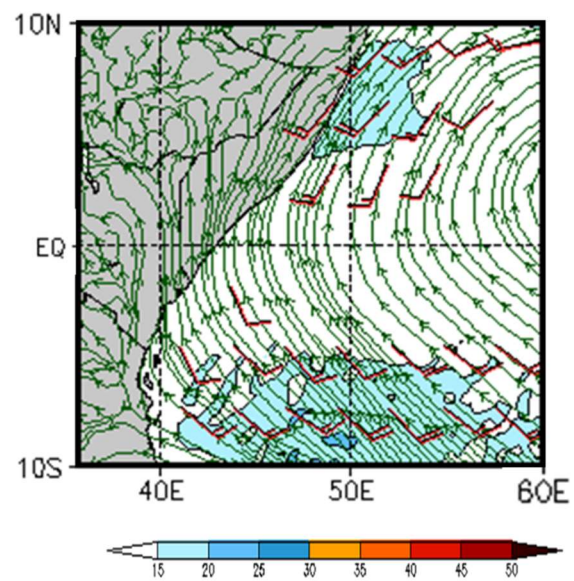
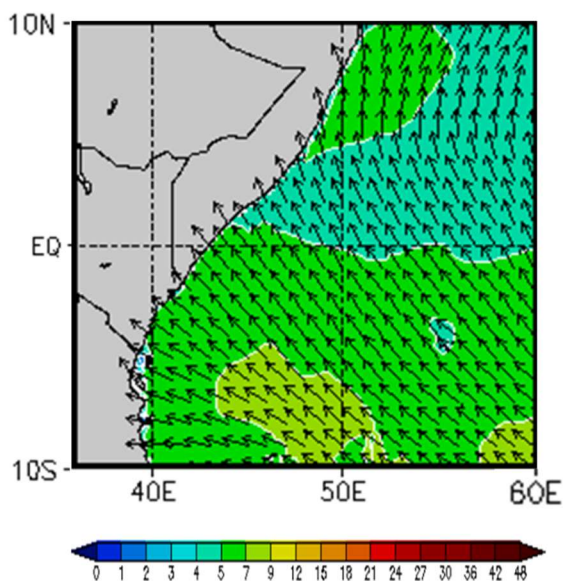
10m Winds: 10-20 knots ($\approx 5-10$ m/s)



2.6 Sunday 1st October, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 1.8m ($\approx 4-6$ ft)

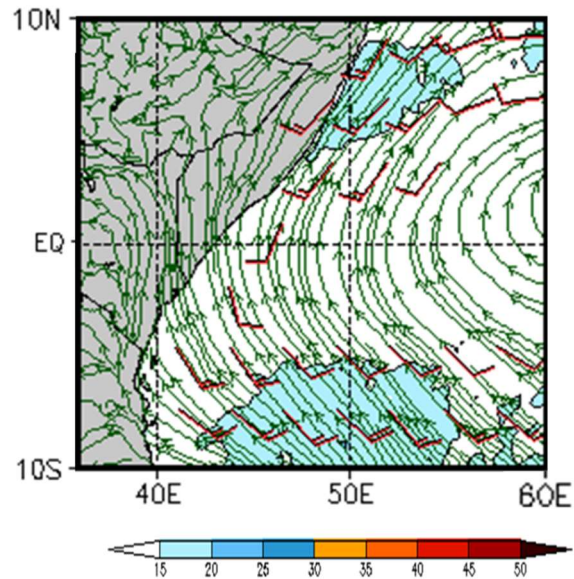
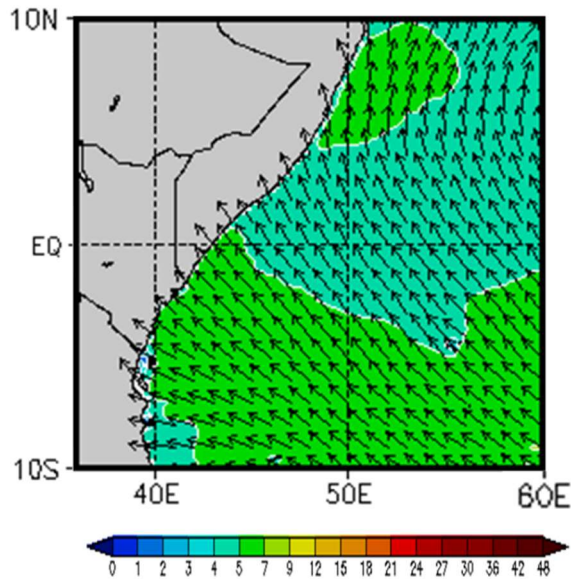
10m Winds: 10-15 knots ($\approx 5-7.5$ m/s)



2.7 Monday 2nd October, 2023: Significant Wave Height and wind speed (Wave scale in meters; Wind scale in m/s)

Wave height: 1.2 to 1.5m (\approx 4– 5ft)

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

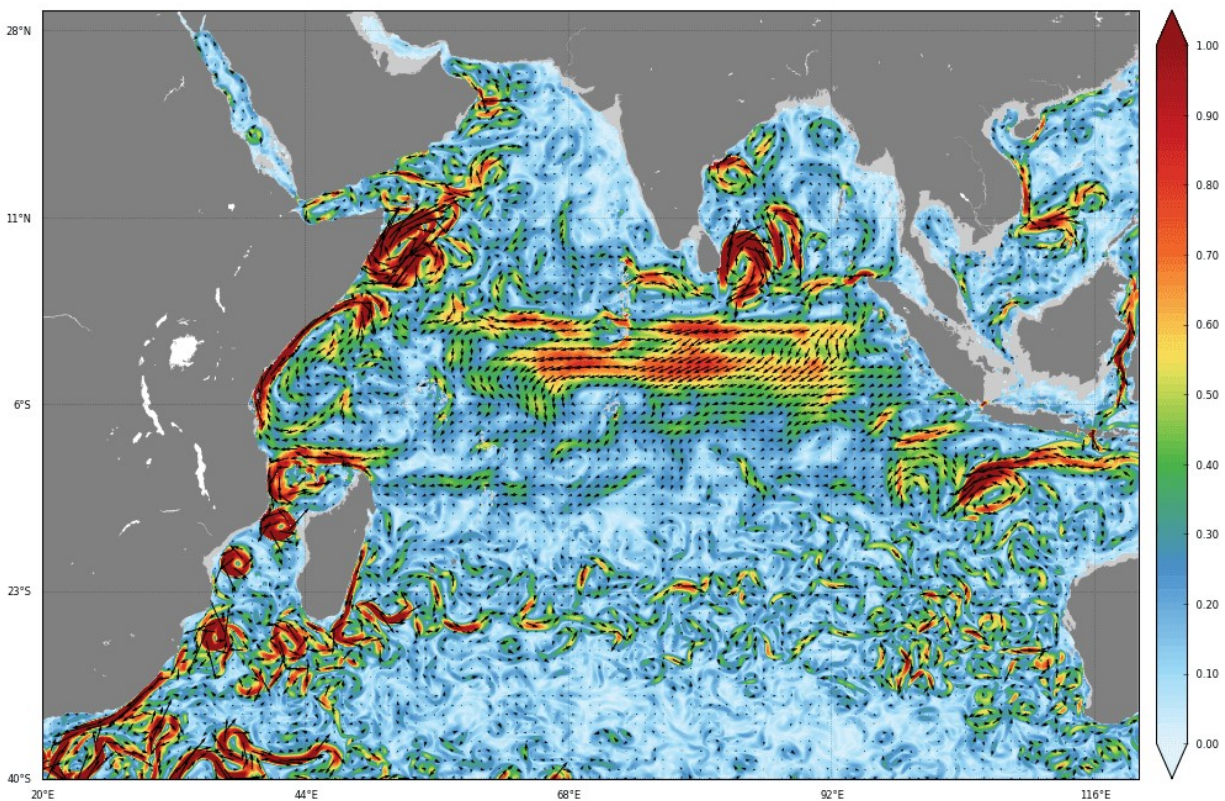


3.0 Tide forecast valid 26th September, 2023 to 2nd October, 2023

Date	Description	High Tide		Low Tide	
		Time	Height	Time	Height
Tue 26 th September, 2023	1 st Tide	01:53 AM	2.40 m	07:42 AM	1.08 m
	2 nd Tide	02:05 PM	2.96 m	08:32 PM	0.68 m
Wed 27 th September, 2023	1 st Tide	02:42 AM	2.83 m	08:39 AM	0.69 m
	2 nd Tide	02:55 PM	3.26 m	09:10 PM	0.38 m
Thur 28 th September, 2023	1 st Tide	03:22 AM	3.23 m	09:24 AM	0.33 m
	2 nd Tide	03:37 PM	3.48 m	09:45 PM	0.14 m
Fri 29 th September, 2023	1 st Tide	03:58 AM	3.58 m	10:04 AM	0.05 m

	2nd Tide	04:16 PM	3.61 m	10:19 PM	-0.01 m
Sat 30th September, 2023	1st Tide	04:34 AM	3.81 m	10:42 AM	-0.10 m
	2nd Tide	04:53 PM	3.61 m	10:51 PM	-0.06 m
Sun 1st October, 2023	1st Tide	05:09 AM	3.92 m	11:19 AM	-0.12 m
	2nd Tide	05:29 PM	3.51 m	11:23 PM	0.00 m
Mon 2nd October, 2023	1st Tide	05:43 AM	3.88 m	11:55 AM	-0.01 m
	2nd Tide	06:03 PM	3.32 m	11:55 PM	0.16 m

4.0. 9 days Ocean surface current in meters per seconds (m/s) forecast valid 25/09/2023 to 04/10/2023



KEY ON SEA STATE

WAVE HEIGHT RANGE (Meters)	DESCRIPTION	IMPACT
0.6 – 1.0 m (\approx 1.8 – 3.0 ft)	Slight	Conditions suitable for Marine activities
1.0 – 1.9 m (\approx 3.0 – 5.7 ft)	Slight - Moderate	
2.0 – 2.9 m (\approx 6.0 – 8.7 ft)	Moderate-Rough	Caution on operating marine activities
3.0 – 4.0 m (\approx 9.0 – 12.0 ft)	Rough	Warning in place!!!! Warning in place and marine activities on hold
4.1 – 5.5 m (\approx 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 – \geq 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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