



THE OUTLOOK FOR OCTOBER-NOVEMBER-DECEMBER, 2021 “SHORT RAINS” SEASON, KWALE COUNTY

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OUTLINE

Review of MAM 2021

Introduction

Zone 1, 2 & Forecast

Zone 4 Forecast

Advice to Farmers

Onset and Cessation

Kwale County Climatic Zones

Forecast Maps

Forecast Terciles

Impacts

END



REVIEW OF MAM 2021

The seasonal rains in Kwale County started from 26th March, 2021 to 17th April, 2021 in most Wards.

The highest amount of 419.4mm was recorded at Dzombo Primary School in Dzombo Ward while the lowest amount of 61.8mm was recorded at Mbandi in Kinango Ward.

Distribution both in time and space was generally poor.

Onset accuracy assessments

Ward name	station name	onset date (Seasonal planner Fcst)	onset date (Fcst update)	actual onset date	days missed
Dzombo	Dzombo Primary School	22 nd March – 7 th April, 2021		26 th March, 2021	Nil
Gombato Bongwe	Bongwe Administrative Office	22 nd March – 7 th April, 2021		26 th March, 2021	Nil
Mwereni	Kasemeni Primary School	22 nd March – 7 th April, 2021		26 th March, 2021	Nil
Ramisi	Mivumoni Primary School	22 nd March – 7 th April, 2021		26 th March, 2021	Nil
Kinango	Mbandi Village	22 nd March – 7 th April, 2021		28 th March, 2021	Nil
Puma	Vigurungani Chief's Office	22 nd March – 7 th April, 2021		27 th March, 2021	Nil
Kubo South	Kipambani Village	22 nd March – 7 th April, 2021		28 th March, 2021	Nil
Mackinnon Road	Taru Secondary	22 nd March – 7 th April, 2021		7 th April, 2021	Nil
Vanga	Uwanja Wa Ndege	22 nd March – 7 th April, 2021		28 th April, 2021	21
Pongwe/Kikone ni	Ngunyu(Shimoni)	22 nd March – 7 th April, 2021		16 th April, 2021	9
Tsimba Golini	Kwale Veterinary	22 nd March – 7 th April, 2021		17 th April, 2021	10
Kinondo	KALRO Mariakani	22 nd March – 7 th April, 2021		26 th March, 2021	Nil

RAINFALL PERFORMANCE BY WARD

NO.	WARD NAME	MARCH	APRIL	MAY	TOTAL MAM mm
1.	Dzombo	29	283	107.4	419.4
2.	Gombato Bongwe	31	120.4	59.4	210.8
3.	Mwereni	88.9	116.3	88.9	294.1
4.	Ramisi	35	221.4	137.2	393.6
5.	Kinango	3.5	29.6	28.7	61.8
6.	Puma	6	68.9	22.5	97.4
7.	Kubo South	25.1	144	77.4	246.5
8.	Mackinnon Road	0	52.5	30.2	82.7
9.	Vanga	23	11.1	90.6	124.7
10.	Pongwe/Kikoneni	0	233	113	346
11.	Tsimba Golini	0	33.3	40.3	73.6
12.	Chengoni/Samburu	30.5	169.2	63.3	263
13.	Kinondo	35	197	94.5	326.5

FORECAST AMOUNTS/ACTUAL AMOUNTS

No	Ward name	station name	MAM 2021 amount(Seasonal planner fcst)mm	MAM 2021 Actual Amount(mm)	% Accuracy
1	Dzombo	Dzombo Primary School	300 -603	419.4	100
2	Gombato Bongwe	Bongwe Administrative Office	300 – 603	210.8	70
3	Mwereni	Kasemeni Primary School	234 – 400	294.1	100
4	Ramisi	Mivumoni Primary School	300 – 603	393.6	100
5	Kinango	Mbandi Village	234 – 400	61.8	26.4
6	Puma	Vigurungani Chief's Office	234 – 400	97.4	41.6
7	Kubo South	Kipambani Village	300 – 603	246.5	82.2
8	Mackinnon Road	Taru Secondary	234 – 400	82.7	35.3
9	Vanga	Uwanja Wa Ndege	300 – 603	124.7	41.6
10	Pongwe/Kikoneni	Ngunyu(Shimoni)	300 – 603	346	100
11	Tsimba Golini	Kwale Veterinary	300 – 603	73.6	24.5
12	Samburu/Chengoni	Matope Village	234 – 400	263	100
13	Kinondo	Kinondo Village Town	300 - 603	326.5	100



SUMMARY

1. There were many dry spells in between the season
2. Most of the Wards in Kinango Sub-County received below 100mm of rainfall in the three months.
3. Massive crop failure was witnessed in Kinango Sub-County and parts of the other three Sub-Counties.



INTRODUCTION

October-November-December(OND) rainy season is one of the two major Seasons in Kwale County. As compared to March-April-May(MAM) season this season is shorter and more less reliable.

The Climate Outlook for October-November-December(OND) 2021 “Short rains” Season indicates that Kwale County is likely to experience below average(depressed) rainfall. The distribution of the rainfall in time and space is expected to be generally poor over most places. Instances of heavy storms leading to flash floods may occur in some areas as the season progresses, especially in the month of November and early December.



ZONES 1, 2 & 3

Probable volume of rainfall: 200 to 289mm – Below the average rainfall received in this season over the past 30 years.

Distribution of rainfall over time and space: Rainfall distribution is expected to be generally poor.

Commentary of County Meteorological Director:

Incidents of heavy down pour leading to flash floods may occur as the season progresses.



ZONES 4:

Probable volume of rainfall: 143-289 mm in three months. – Below average rainfall received in this season over the past 30 years.

Distribution of rainfall over time and space: Rainfall distribution is expected to be generally poor..

Commentary of County Meteorological Director:

Incidents of heavy down pour leading to flash floods may occur as the season progresses



ADVICE TO FARMERS FROM DEPARTMENT OF AGRICULTURE, LIVESTOCK AND FISHERIES:

Consult your local Sub-County and Ward level officers for advice on how to plan farming activities in the light of this forecast.



ONSET AND CESSATION DATES

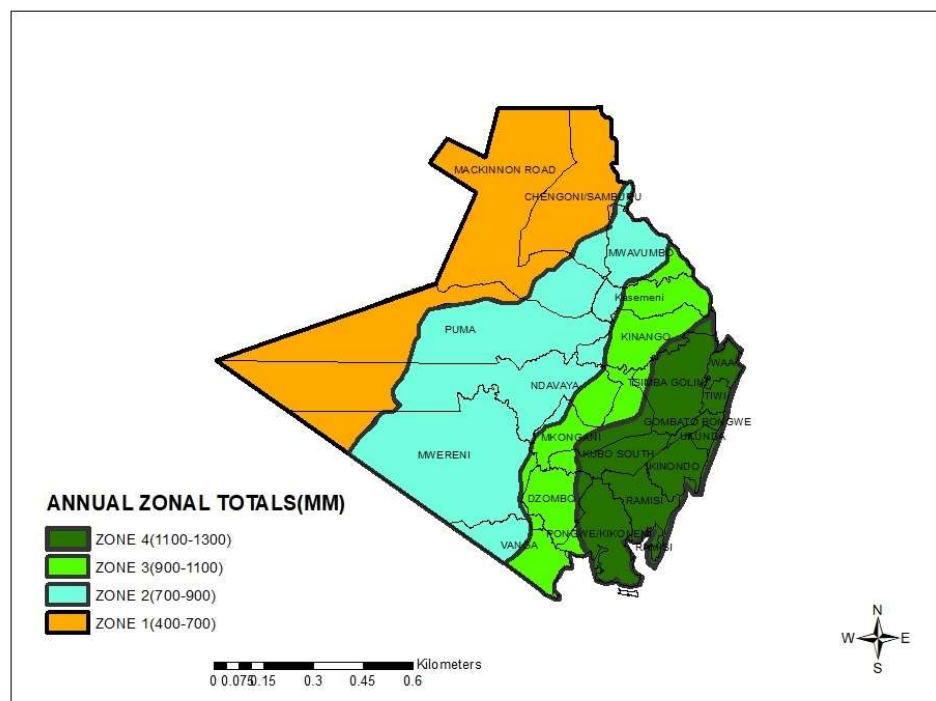
Start of rainy season (onset): 1st to 14th November, 2021.

End of rainy season (cessation): 1st to 14th December, 2021.



CLIMATIC ZONES MAP

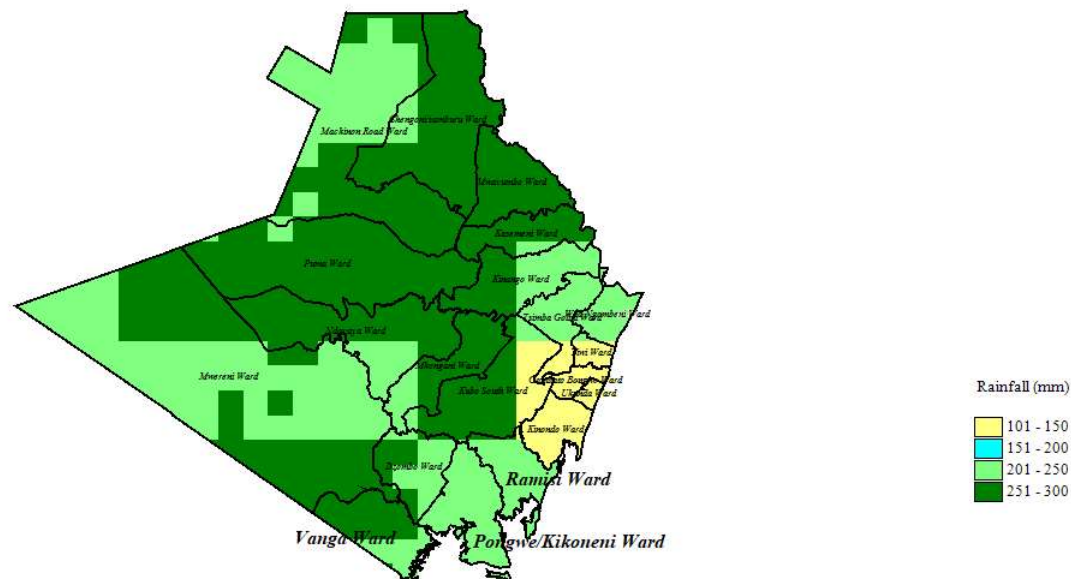
KWALE COUNTY CLIMATIC ZONES

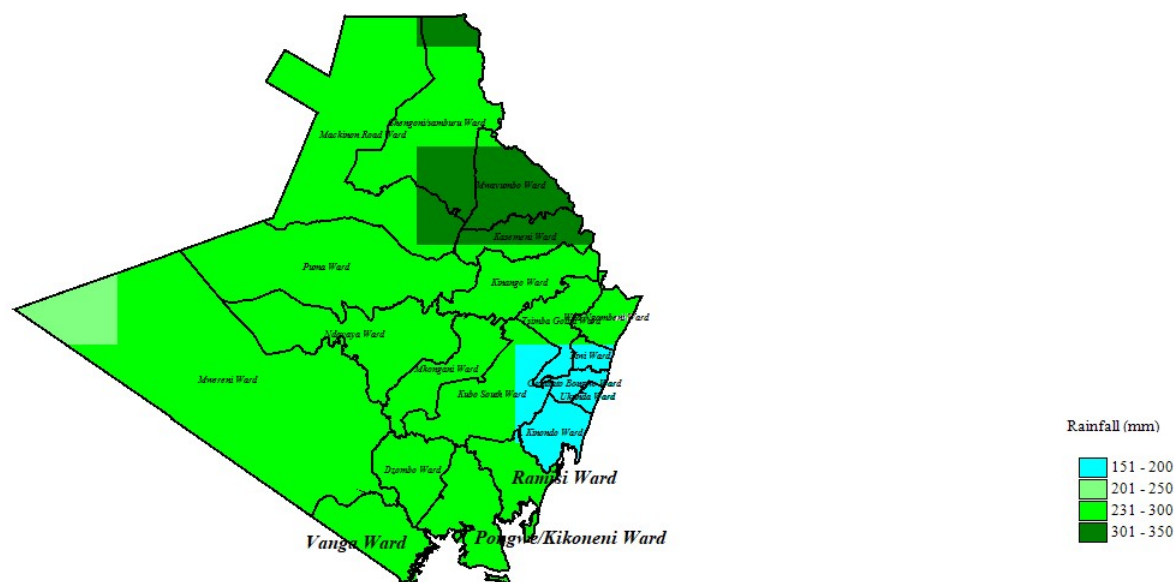




FORECAST MAP(KWALE)

OCTOBER - NOVEMBER - DECEMBER 2021 SEASONAL FORECAST FOR KWALE COUNTY

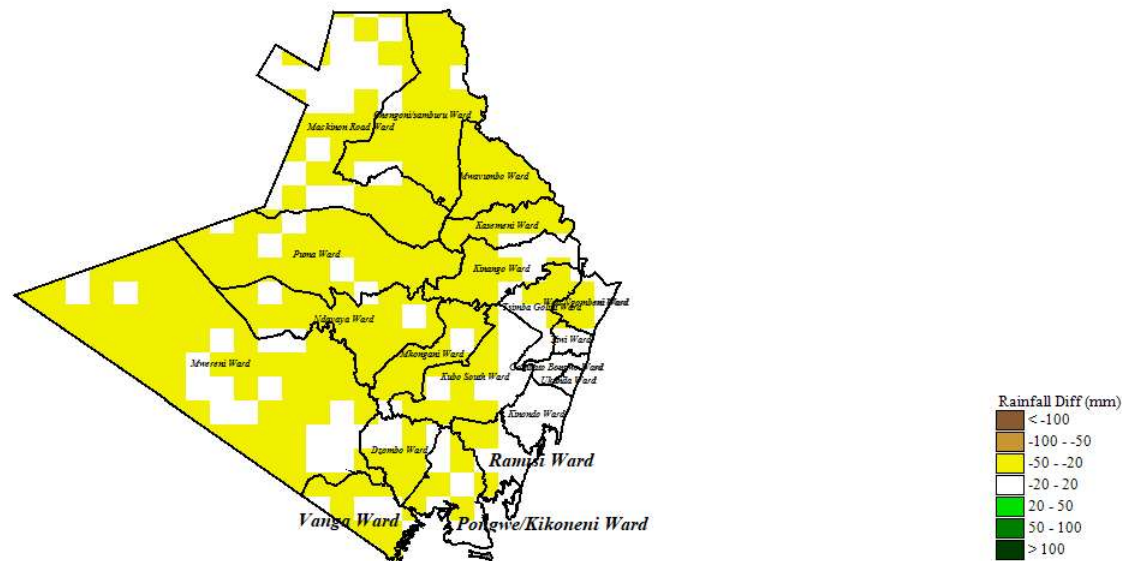






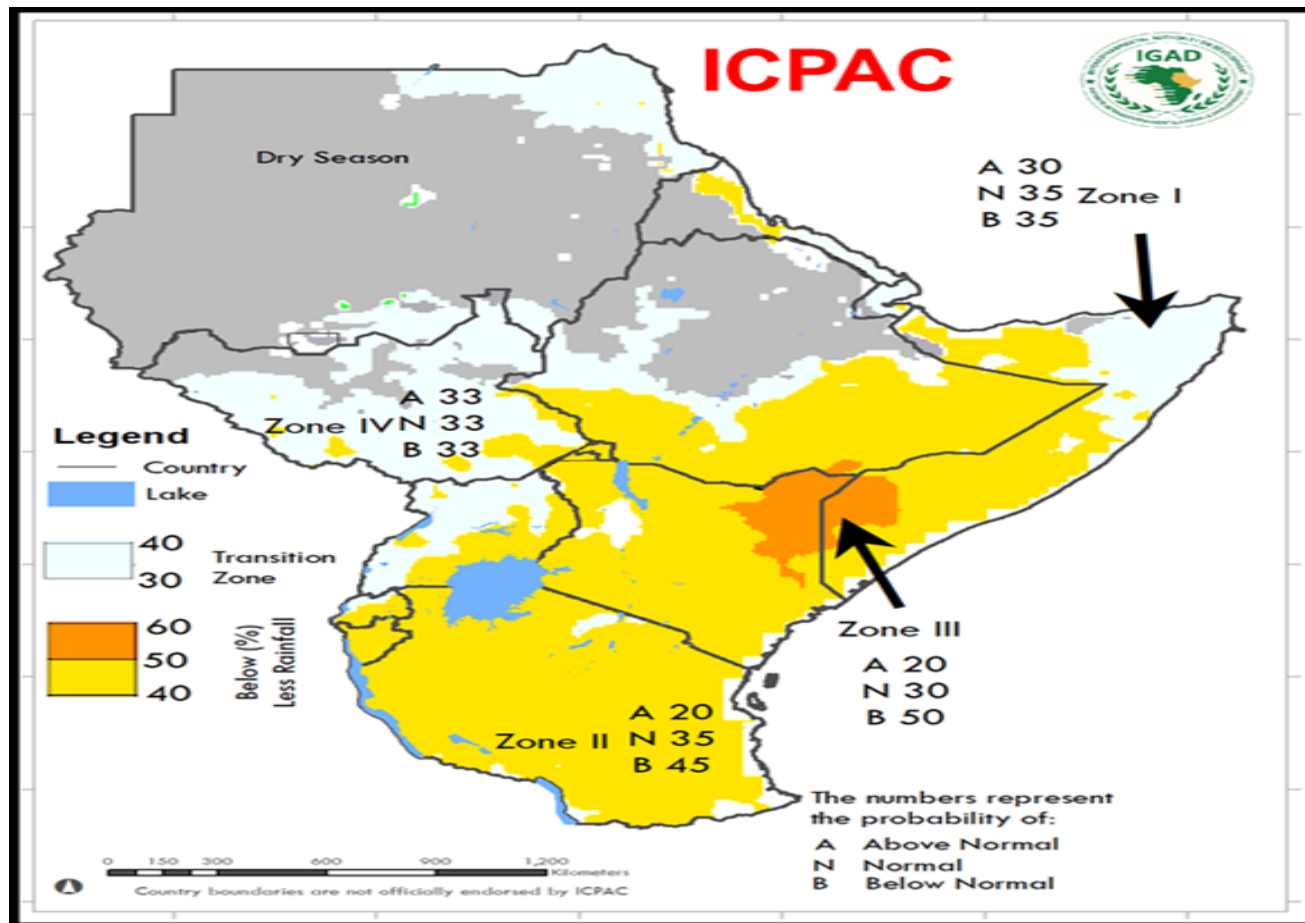
DIFFERENCE BETWEEN FORECAST AND AVERAGE

RAINFALL DIFFERENCE BETWEEN THE AVERAGE AND THE FORECAST FOR OND 2021



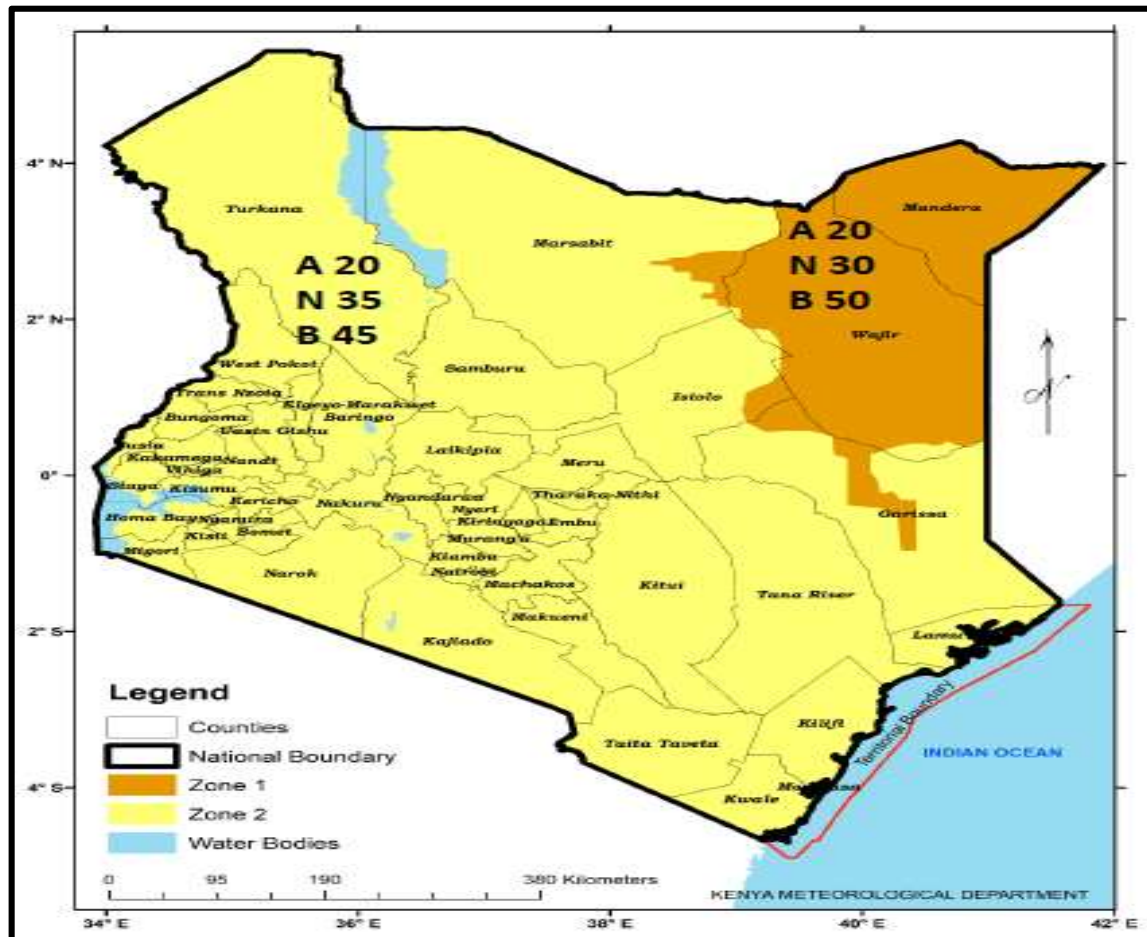


FORECAST MAP(GHA)





FORECAST MAP(KENYA)





FORECAST TERCILES

Above Normal – 20%

Normal – 35%

Below Normal – 45%



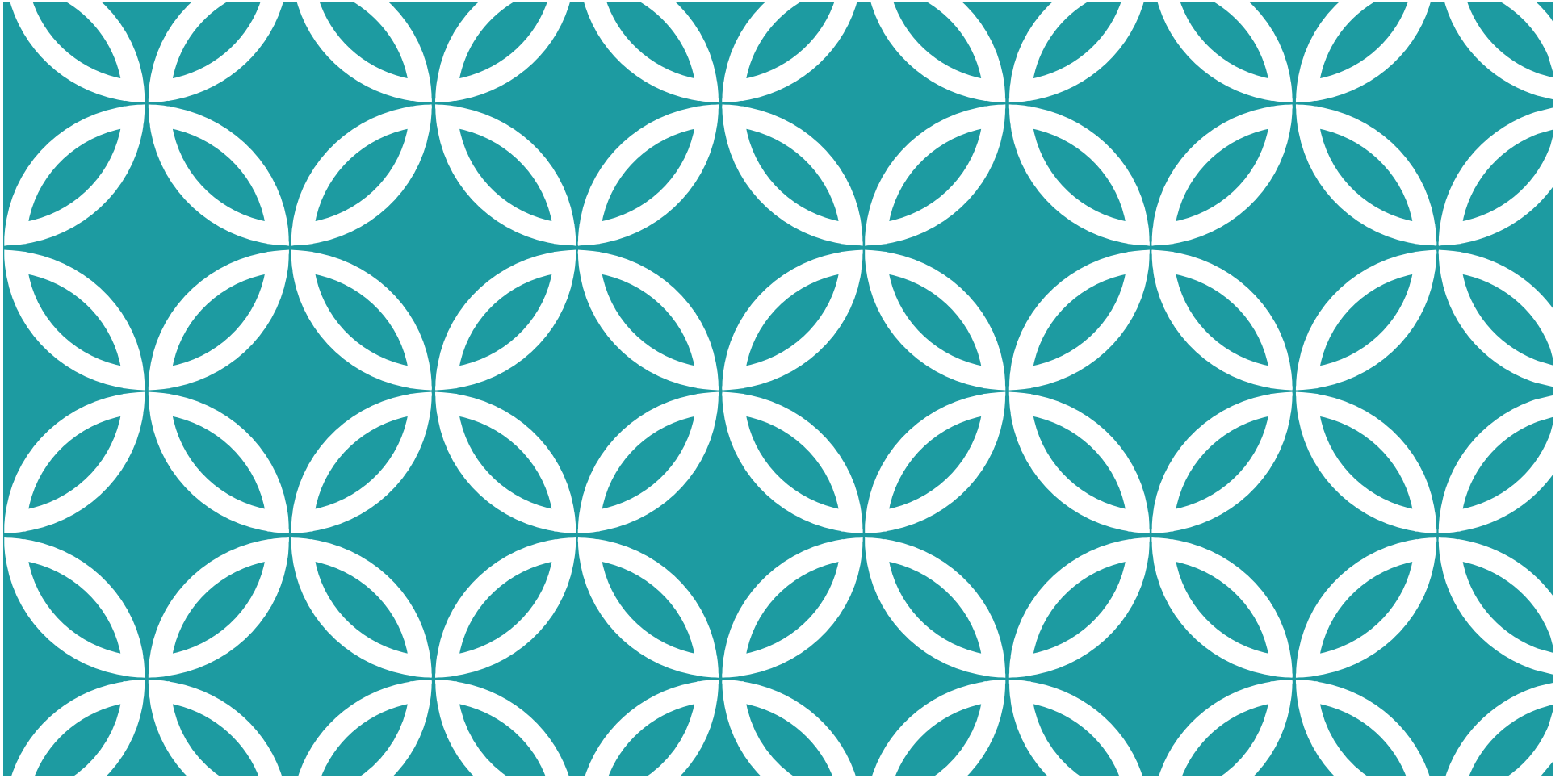
IMPACTS

During OND 2021, it is expected that several parts of Kwale County will experience below average rainfall that will be poorly distributed both in time and space.

Isolated incidences of heavy storms are likely to occur that may cause flash floods.

Late start of season and below average rainfall are expected over most parts of Kwale County during October-November-December 2021 rainfall season

Temperatures are expected to stay warmer than average over most parts of the County.



THANKS FOR YOUR ATTENTION

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