

AFRICA: Monthly Climate Outlook December to September

Issued: March 2021

Overview

Current Status

<u>Outlooks</u>

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Overview

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Africa Current Status and Outlook - Temperature

Current Status:

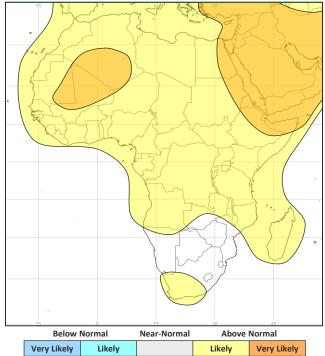
Overview

Large parts of Africa have been warmer than normal. The main exception to this is in the far south, and in particular Madagascar, where cool to cold conditions have been experienced.

Outlook:

For the next three months, conditions are widely likely to be warmer than normal apart from the south where in some areas climatological odds are likely.

3-Month Outlook April to June - Temperature





Current Status:

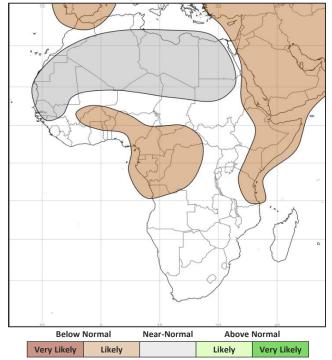
Many parts of central and southern Africa have seen above normal rainfall over the past 3 months, exacerbated by tropical cyclone activity moving inland across mainland Africa from the Mozambique Channel. Conversely, Madagascar has generally seen below normal rainfall. Following above normal rainfall across some areas of the Gulf of Guinea coastline, rainfall in February has generally been near normal.

Outlook:

Overview

For the next three months as the seasonal rains advance northwards it is likely to be drier than normal in east Africa, especially near the coast. Across south east Africa indications are less clear, especially as the South West Indian Ocean cyclone season tails off and draws to a close during May. Parts of west Africa are likely to be drier than normal due to indications that the West African Monsoon may be less active than normal over the next three months.

3-Month Outlook April to June - Rainfall



Climate Outlook Africa: December to September



Global Outlook - Temperature

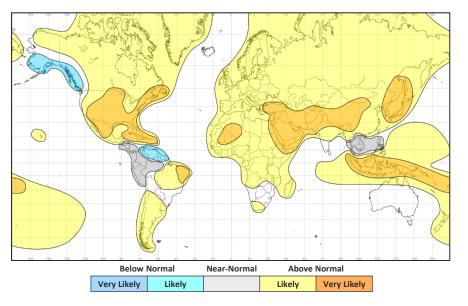
Outlook:

With the current El Niño–Southern Oscillation (ENSO) prediction indicating the possibility of change to neutral conditions over the next three months, La Niña is having less of a cooling influence on the forecast. In the context of climate change, this means that most of the the world's land area is likely to see above normal temperatures.

For the next three months, temperatures are very likely to be warmer than normal across most of the US and Caribbean, the Middle East extending east across Central Asia towards Japan, as well as Malaysia/Indonesia and adjacent countries.

Notable exceptions to this are northern parts of South America, which is accompanied by wetter than normal conditions (see slide 6). The Pacific coast of Canada and Alaska is also likely to be cooler than normal.

3-Month Outlook April to June - Temperature



Overview

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Global Outlook - Rainfall

Outlook:

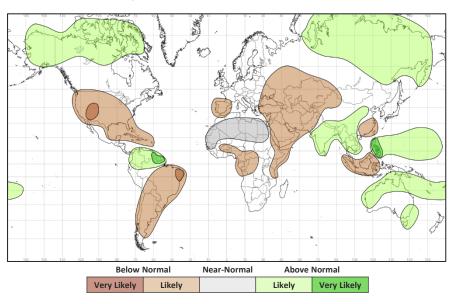
Whilst La Niña conditions are predicted to decline, La Niña will still have an influence on rainfall patterns through some of this period (though it is more weakly represented in the total 3-month outlook period).

The La Nina associated suppression of rainfall over the tropical Pacific Ocean can also lead to increases in rainfall across the tropical land areas; this below normal and above normal rainfall pattern is predicted for Indonesia and South East Asia respectively over the next three months.

For the next three months, conditions are likely to be drier than normal for large parts of the Americas, the main exception being northern South America where due to a northward displaced Intertropical Convergence Zone, conditions are likely to very likely to be wetter than normal on the Atlantic facing coasts and adjacent countries.

For the next three months as the seasonal rains advance northwards it is likely to be drier than normal in east Africa, especially near the coast. Parts of west Africa are also likely to be drier than normal due to indications that the West African Monsoon may be less active than normal over the next three months. Conditions are also likely to be drier than normal across most of the Middle East and into Central Asia.

3-Month Outlook April to June - Rainfall







Overview





Current Status

Current Status maps

Western Africa

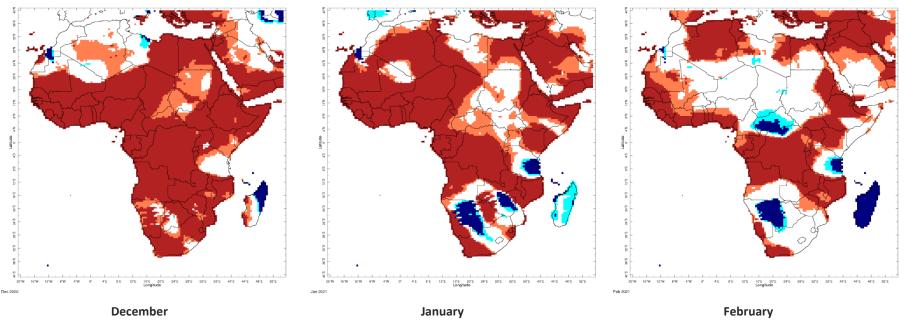
Central Africa

Eastern Africa

Southern Africa



Current Status – Temperature percentiles



 Temperature Percentiles (BLUE below 20th and RED above 80th)

 0
 0.1
 0.2
 0.3
 0.4
 0.5
 0.6
 0.7
 0.8
 0.9
 1.0

Current Status

Notes: The percentiles shown in the map indicate a ranking of temperature, with the 0th percentile being the coolest and the 100th percentile being the warmest in the 1981-2010 climatology. Orange and red shading represent values above the 80th (Warm) and 90th (Hot) percentile, respectively; regions shaded in light and dark blue indicate values below the 20th (Cool) and 10th (Cold) percentile, with respect to the 1981-2010 climatology. The data used in this map are from the NOAA Climate Prediction Center.

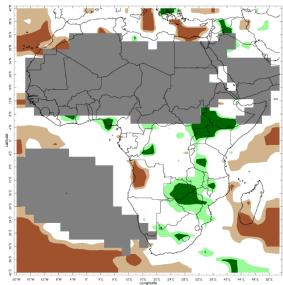
Climate Outlook Africa: December to September

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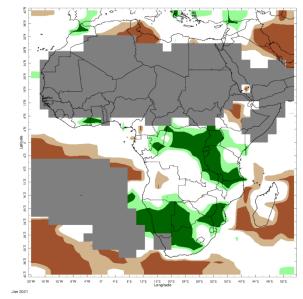
Current Status – Precipitation percentiles



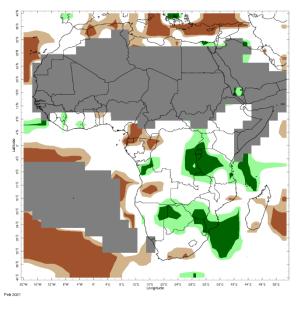
Dec 2020

December





January



February

Notes: The percentiles shown in the map indicate a ranking of rainfall, with the 0th percentile being the driest and the 100th percentile being the wettest in the 1981-2010 climatology. Green and dark green shading represent values above the 80th (Wet) and 90th (Very Wet) percentile, respectively; regions shaded in light and dark brown indicate rainfall below the 20th (Dry) and 10th (Very Dry) percentile, with respect to the 1981-2010 climatology. Grey areas on the map mask out regions that receive less than 10 mm/month of rainfall on normal in the 1981-2010 climatology for the month. The data used in this map are from the NOAA Climate Prediction Center.

Climate Outlook Africa: December to September

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Current Status



Current Status – Western Africa

	Currer	Current Status: Temperature			
	December	January	February		
Sierra Leone	Hot	Hot	Hot		
Liberia	Hot	Hot	Hot		
Mali	Hot	Hot	Warm		
Ghana	Hot	Hot	Hot		
Nigeria	Hot	Hot	Normal		
Cameroon	Hot	Hot	Normal		

Current Status: Rainfall

December	January	February
Normal	Normal	Normal
Mixed	Normal	Normal
Normal*	Normal*	Normal*
Normal	Very Wet^^	Normal
Mixed^	Normal	Normal*
Normal	Normal	Very Dry

Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room: http://iridl.ldeo.columbia.edu/maproom/.

* Region usually experiences less than 10mm/month rainfall during the month (dry season).

Additional Information:

^Note: Hot in the south of Nigeria in December, normal elsewhere **^^Note:** Very Wet in the south

Current Status



Current Status – Central Africa

	Current Status: Temperature				Cur	rent Status: Rair	ıfall
	December January February				December	January	February
Niger	Hot	Hot	Normal]	Normal*	Normal*	Normal*
Chad	Hot	Hot	Normal		Normal*	Normal*	Normal*
DRC	Hot	Hot	Hot		Normal	Mixed^	Mixed^^

Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room: http://iridl.ldeo.columbia.edu/maproom/.

* Region usually experiences less than 10mm/month rainfall during the month (dry season).

Additional Information:

^Note: Very wet in the north, normal in the south **^^Note:** Very wet in the far east, normal elsewhere

Current Status



Current Status – Eastern Africa (1)

	Currei	Current Status: Temperature		
	December	January	February	
Sudan	Hot	Normal [^]	Mixed^^^	
South Sudan	Hot	Normal	Mixed^^^^	
Uganda	Hot	Warm	Hot	
Rwanda	Hot	Warm	Hot	

Current Status: Rainfall						
December	December January February					
Normal*	Normal*	Normal*				
Wet	Mixed^^	Normal*				
Very Wet	Very Wet	Wet				
Normal	Very Wet	Very Wet				

Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room: http://iridl.ldeo.columbia.edu/maproom/.

* Region usually experiences less than 10mm/month rainfall during the month (dry season).

Additional Information:

Note: Hot in parts of the east **^Note**: Very Wet in the far south. Largely dry elsewhere **^^Note**: Hot in the far east, normal elsewhere **^^Note**: Hot in the south, normal in the north.

Current Status



Current Status – Eastern Africa (2)

	Currer	Current Status: Temperature		
	December	January	February	
Tanzania	Normal	Mixed^	Mixed^	
Ethiopia	Hot	Hot	Hot	
Kenya	Hot	Hot	Hot	
Somalia	Hot	Hot	Warm	

Current Status: Rainfall					
December January February					
Mixed	Very Wet	Wet			
Mixed	Dry	Normal			
Normal	Wet	Normal			
Normal	Normal*	Normal*			

Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room: http://iridl.ldeo.columbia.edu/maproom/.

* Region usually experiences less than 10mm/month rainfall during the month (dry season).

Additional Information:

^Note: Hot in the far west, cold in parts of the east, normal elsewhere

Climate Outlook Africa: December to September

Current Status



Current Status – Southern Africa

	Current Status: Temperature				
	December	December January Februar			
South Africa	Hot	Mixed^^	Mixed^^		
Zambia	Hot	Hot	Mixed%		
Zimbabwe	Hot	Mixed	Warm		
Mozambique	Hot	Hot	Mixed&		
Malawi	Hot	Hot	Hot		
Madagascar	Mixed^	Cool	Very Cold		

Current Status: Rainfall December **February** January Very Wet Normal Normal Normal^^^^ Wet Normal Verv Wet Verv Wet Wet Mixed^^^ Mixed# Mixed@ Wet Wet Normal Normal Normal

Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room: http://iridl.ldeo.columbia.edu/maproom/.

* Region usually experiences less than 10mm/month rainfall during the month (dry season).

Additional Information:

Note: Cold in the north and Hot in the west
 Note: Hot in the southwest
 Note: Some areas Wet, mainly Normal.
 Note: Very wet in the far northeast.
 #Note: Very wet in the south and far north, normal elsewhere
 Note: Hot in the east, normal in the west
 &Note: Hot in the north, normal in the south
 @Note: Very wet in the far south, normal elsewhere.

Current Status





Outlooks

Notes for use

Western Africa

Central Africa

Eastern Africa

Southern Africa



Outlooks: Notes for use

Outlooks for months 4 to 6:

As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range.

Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Climatological odds:

A forecast is only provided in the outlooks where there is information in the model data about likely outcomes. Therefore, where the likelihoods for above, near and below normal conditions are evenly balanced the phrase 'climatological odds' will be used. This means the outcome could fall anywhere within the possible climatological range. Near-normal conditions should not necessarily be assumed, and users should update with shorter-term forecasts when available.

Outlooks



Outlook: April to September – Western Africa (1)

		Forecast summary			
		April	April to June	July to September	
Sierra Leone	Temperature	Likely to be near-normal	Likely to be warmer than normal	Likely to be warmer than normal	
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be drier than normal	
Liberia	Temperature	Likely to be near-normal	Likely to be warmer than normal	Likely to be warmer than normal	
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be drier than normal	
Mali	Temperature	Likely to be warmer than normal	Much more likely to be warmer than normal	Much more likely to be warmer than normal in the north, but Climatological odds – <u>see</u> <u>note</u> in the south	
	Rainfall	Likely to be near-normal	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	
Ghana	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal	
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be drier than normal	

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Outlooks

Outlooks



Outlook: April to September – Western Africa (2)

		Forecast summary			
		April April to June July to September			
Nigeria	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal	
	Rainfall	Likely to be near-normal	Likely to be drier than normal	Likely to be wetter than normal	
Cameroon	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal	
	Rainfall	Climatological odds – <u>see note</u>	Likely to be drier than normal	Likely to be drier than normal	

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.



Outlook: April to September – Central Africa

			Forecast summary	
		April	April to June	July to September
Niger	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal in the north, but Climatological odds – <u>see note</u> in the south
	Rainfall	Likely to be near-normal	Climatological odds – <u>see note</u> in the south, likely to be near-normal in the north	Likely to be wetter than normal
Chad	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal in the north, but Climatological odds – <u>see note</u> in the south
	Rainfall	Likely to be near-normal	Climatological odds – <u>see note</u> in the south, likely to be near-normal in the north	Likely to be wetter than normal
Democratic Republic of Congo	Temperature	Likely to be warmer than normal in the north, but Climatological odds – <u>see note</u> in the south	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Climatological odds – <u>see note</u>	Likely to be drier than normal in the west, Climatological odds – <u>see note</u> in the east	Likely to be drier than normal in the west, and Climatological odds – <u>see note</u> in the east

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Outlooks



Outlook: April to September – Eastern Africa (1)

		Forecast summary		
		April	April to June	July to September
Sudan	Temperature	Likely to be warmer than normal	Mainly likely to be warmer than normal, except in far east where much more likely to be warmer than normal	Likely to be warmer than normal in the north, but Climatological odds – <u>see note</u> in the south
	Rainfall	Likely to be near-normal	Likely to be near-normal in the north, Climatological odds – <u>see note</u> in the south	Likely to be wetter than normal
South Sudan	Temperature Rainfall	Climatological odds – <u>see note</u> Climatological odds – <u>see note</u> , but likely to be wetter than normal in the south	Likely to be warmer than normal Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u> Likely to be wetter than normal
Uganda	Temperature	Likely to be colder than normal	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be near-normal
Rwanda	Temperature	Climatological odds – <u>see note</u>	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Likely to be wetter than normal	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Outlooks



Outlook: April to September – Eastern Africa (2)

		Forecast summary		
		April	April to June	July to September
Tanzania	Temperature	Likely to be colder than normal in the north, but likely to be warmer than normal in the south	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Likely to be wetter than normal in the north, Climatological odds – <u>see note</u> in the south	Likely to be drier than normal in the far east, otherwise Climatological odds – see note	Likely to be drier than normal in the far east, otherwise Climatological odds – <u>see note</u>
Ethiopia	Temperature	Likely to be warmer than normal	Likely to be warmer than normal in the south/west, and much more likely to be warmer than normal in the north/east	Likely to be warmer than normal
	Rainfall	Likely to be drier than normal in the north, Climatological odds – <u>see note</u> in the south	Likely to be drier than normal in the east, otherwise Climatological odds – see note	Likely to be wetter than normal in the west, likely to be drier than normal in the east

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Outlooks

Outlooks



Outlook: April to September – Eastern Africa (3)

		Forecast summary		
		April	April to June	July to September
Kenya	Temperature	Climatological odds – <u>see note</u>	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Likely to be wetter than normal	Likely to be drier than normal in the east, otherwise Climatological odds – see note	Likely to be drier than normal
Somalia	Temperature	Likely to be warmer than normal	Likely to be warmer than normal in the south, and much more likely to be warmer than normal in the north	Likely to be warmer than normal
	Rainfall	Climatological odds – <u>see note</u>	Likely to be drier than normal	Likely to be drier than normal

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.



Outlook: April to September – Southern Africa (1)

		Forecast summary		
		April	April to June	July to September
South Africa	Temperature	Climatological odds – <u>see note</u>	Likely to be warmer than normal in the south, but Climatological odds – <u>see note</u> in the north	Climatological odds – <u>see note</u>
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>
Zambia	Temperature	Climatological odds – <u>see note</u>	Likely to be warmer than normal	Climatological odds – <u>see note</u>
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be near-normal
Zimbabwe	Temperature	Likely to be colder than normal	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Likely to be near-normal
Mozambique	Temperature	Likely to be warmer than normal in the north, but likely to be colder than normal in the south	Likely to be warmer than normal in the north, but Climatological odds – <u>see note</u> in the south	Climatological odds – <u>see note</u>
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

Outlooks

Outlooks



Outlook: April to September – Southern Africa (1)

		Forecast summary		
	-	April	April to June	July to September
Malawi	Temperature	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>
Madagascar	Temperature	Likely to be warmer than normal	Likely to be warmer than normal	Likely to be warmer than normal
	Rainfall	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>	Climatological odds – <u>see note</u>

Outlooks for months 4 to 6: As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.





Annex 1 – Supplemental Information



For further information

WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME) https://www.wmolc.org/seasonPmmeUI/plot_PMME

International Research Institute for Climate and Society (IRI) http://iridl.ldeo.columbia.edu/maproom/

NOAA El Niño technical info https://www.ncdc.noaa.gov/teleconnections/enso/indicators/sst.php

Met Office https://www.metoffice.gov.uk/services/government/international-development

Climate Outlook Fora (https://public.wmo.int/en/our-mandate/climate/regional-climate-outlook-products), including:

Greater Horn of Africa Climate Outlook Forum (GHACOF): <u>https://www.icpac.net/ghacof-57/</u> PRÉvisions climatiques Saisonnières en Afrique Soudano-Sahélienne (PRESASS): English - <u>https://urlz.fr/cuFo</u>; French - <u>https://urlz.fr/cuFm</u> Southern African Regional Climate Outlook Forum (SARCOF): <u>http://csc.sadc.int/en/news-and-events/310-announcement-sarcof-24</u> PRÉvisions climatiques Saisonnières en Afrique, pays du Golfe de Guinée (PRESAGG): <u>http://acmad.net/rcc/atelier/bulletin_PRESAGG07_eng.pdf</u> South-West Indian Ocean Climate Outlook Forum (SWICOF) - <u>https://www.commissionoceanindien.org/wp-content/uploads/2020/09/SWIOCOF-</u> <u>9_Statement.pdf</u>

Supplemental Information



Technical notes

The <u>WMO lead centre for long-range forecast multi-model ensemble (LC-LRFMME)</u> produce a probabilistic multi-model mean forecast product in which the multi-model mean is based on uncalibrated model output with a model weighting system that accounts for errors in both the forecast probability and ensemble mean. The method used by LC-LRFMME separately computes a probabilistic forecast and calculates tercile probabilities with respect to climatology for each individual model, before creating the weighted multi-model mean. In seasonal prediction, shifts in the tercile probabilities are always closely associated with the shifts in the probability of extremes, and we can use the probability of terciles to provide information on the likelihood of above- or below- normal conditions. The thresholds used in the forecast summaries are defined below.

Seasonal forecasts rely on the aspects of the global weather and climate system that are more predictable, such as tropical sea-surface temperatures or the El Niño–Southern Oscillation (ENSO). However, whilst such forecasts may be able to show what is more or less likely to occur, they acknowledge that other outcomes are possible.

In addition, forecast uncertainty generally increases with longer range so the 6-month outlook is less reliable. It is also based on less information, because not all models are available to this range. Therefore the information presented here should be used to raise early awareness of potential hazards, and should be updated with the 3-month outlook when available.

In the report and tables precipitation is referred to as rainfall but in fact encompasses any form of water, liquid or solid, falling from the sky. Temperatures are the (2 metre) near-surface temperature.

Much more likely to be below normalWhen probability of lower tercile > 70%More likely to be below normalWhen probability of lower tercile is 40-70%Likely to be normalWhen probability of middle tercile is 40-70%Much more likely to be near-normalWhen probability of middle tercile > 70%Likely to be above near-normalWhen probability of upper tercile is 40-70%Much more likely to be above normalWhen probability of upper tercile > 70%Much more likely to be above normalWhen probability of upper tercile > 70%Climatological oddsWhen probabilities for all categories are roughly 33%	Description	Definition
Likely to be normal When probability of middle tercile is 40-70% Much more likely to be near-normal When probability of middle tercile > 70% Likely to be above near-normal When probability of upper tercile is 40-70% Much more likely to be above normal When probability of upper tercile > 70% Much more likely to be above normal When probability of upper tercile > 70%	Much more likely to be below normal	When probability of lower tercile > 70%
Much more likely to be near-normal When probability of middle tercile > 70% Likely to be above near-normal When probability of upper tercile is 40-70% Much more likely to be above normal When probability of upper tercile > 70%	More likely to be below normal	When probability of lower tercile is 40-70%
Likely to be above near-normal When probability of upper tercile is 40-70% Much more likely to be above normal When probability of upper tercile > 70%	Likely to be normal	When probability of middle tercile is 40-70%
Much more likely to be above normal When probability of upper tercile > 70%	Much more likely to be near-normal	When probability of middle tercile > 70%
	Likely to be above near-normal	When probability of upper tercile is 40-70%
Climatological odds When probabilities for all categories are roughly 33%	Much more likely to be above normal	When probability of upper tercile > 70%
	Climatological odds	When probabilities for all categories are roughly 33%

Global Producing Centres (GPC) forecasts used by WMO LC-LRFMME:

- GPC CPTEC (INPE),
- GPC ECMWF,
- GPC Exeter (Met Office),
- GPC Melbourne (BOM),
- GPC Montreal (CMC),
- GPC Moscow (Hydromet Centre of Russia),
- GPC Offenbach (DWD),
- GPC Pretoria (SAWS),
- GPC Seoul (KMA),
- GPC Tokyo (JMA),
- GPC Toulouse (Meteo France),
- GPC Washington (NCEP)

Supplemental Information





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