2022 Seasonal Climate Prediction
Introduction

The SCP provides essential weather advisories and early warnings to planners, decision-makers and operators in the various rainfall-sensitive socio-economic sectors. These are aviation, agriculture, water resources, environment, transportation, disaster risk management, health, construction etc.
Introduction

The SCP is therefore an invaluable tool that is capable of ameliorating the unpleasant consequences of extreme weather and climate events.

The proper application of the SCP reduces climate-related risks, enhances production, security and revenue generation.

The use of ENSO phase is adopted because of the strong teleconnection existing between the different phases (warm, cold, or neutral) that defines the state of sea surface temperature in the central Pacific Ocean and rainfall pattern in the country.
One of the major drivers of the NiMet Seasonal Climate Prediction (SCP) model is the El-Nino Southern Oscillation (ENSO) which describes the condition or state of the sea surface temperature in the Nino 3.4 region of the Pacific Ocean (120W-150W). This is considered, particularly because of the relationship that ENSO has with rainfall characteristics in different parts of the world including Nigeria.

This view is also supported by predictions from other ENSO prediction centres such as the Bureau of Meteorology (BoM) of Australia [ENSO Outlook – an alert system for the El Niño–Southern Oscillation (bom.gov.au)] and National Oceanic and Atmospheric Administration (NOAA), USA [El Niño Forecasts | El Nino Theme Page - A comprehensive Resource (noaa.gov)].
Weekly SST ANOMALY 2021

Weekly sea surface temperature patterns in tropical Pacific

OCTOBER 11-17

October 11–17, 2021 compared to historical baseline

difference from average temperature (°C)

NOAA Climate.gov
Data: NOAA View

NiMet
Nigerian Meteorological Agency
Mid-December 2021 IRI/CPC Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: −0.5 °C to 0.5 °C

Season

Probability (%)
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Mid-April 2022 IRI/CPC Model-Based Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: −0.5 °C to 0.5 °C

La Niña Forecast Probability
Neutral Forecast Probability
El Niño Forecast Probability
La Niña Climatology
Neutral Climatology
El Niño Climatology

Season
AMJ MJJ JJA JAS ASO SON OND NDJ DJF
Probability (%)
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<th>Neutral</th>
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<tr>
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The 2022 Seasonal Climate Prediction is therefore predicted based on a cold (La Niña) ENSO phase. This phase has over 80% probability of persisting from the November to February in 2022. The probability of this phase reduces to 58% by March and thereafter, a neutral phase is predicted to prevail from April with about 60% probability. This phase is expected to continue through the rest of the season with decreasing probability towards the end of the season.

The relationships of the La Niña phase to rainfall characteristic within our region are: Early onset dates, late cessation dates, longer length of season, and enhanced precipitation amount
Pre-Onset Activities (False Onset)

The **Mid-latitude wave**, the **Atlantic Multidecadal Oscillation** (AMO) and the **Indian Ocean Dipole** (IOD) activities will enhance the sudden northward pull of the Inter-tropical Discontinuity (ITD) and incursion of moisture into the country. This will enhance some rainfall events before the establishment of the raining season within the first quarter (January-March) of this year. Its effect could reach as far as the extreme northern states in some cases. They are responsible for most of the early rainfall experienced in the country.
COMPONENTS OF THE SCP

The predictions provide information about:

(i) **Onset** and **cessation** dates of rainy season;

(ii) Length of the rainy season;

(iii) Annual Total amount of rainfall;

(iv) Dry Spell Occurrence

(v) Temperature (Day & Night) Forecast

(vi) Malaria Vigilance

(vii) Meningitis Vigilance

(viii) **Socio-economic implications of the predictions**
2022 PREDICTION
Onset of Rainy Season

2022 PREDICTED ONSET OF RAINY SEASON

Date
- Jun-13
- May-29
- May-14
- Apr-29
- Apr-14
- Mar-30
- Mar-15
- Feb-28

2022 PREDICTED ONSET OF RAINY SEASON
DEPARTURE FROM NORMAL

ONSET
- EARLY
- NORMAL
- DELAYED

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The prediction shows that the earliest onset will occur on the 28th of February 2022 in and around the coastal zone of the south-south states of Bayelsa, Rivers and Akwa Ibom. The onset dates are expected to progress latitudinally with the ITD northwards oscillation as the year progresses. Areas around the central states are expected to have their onset between April and May. The extreme northern states are expected to have their onset between June and July, with the northern fringes of Sokoto, Kebbi, Zamfara, Kano, Katsina, Jigawa, Yobe and Borno states predicted to likely have onset of rains between 13th June and 4th of July 2022.

The 2022 Onset of rains is predicted to be normal in most parts of the country with parts of Ekiti, Ondo, Edo, Niger and Kaduna that are likely to experience earlier than normal onset when compared to the long-term averages in these locations. However, Zamfara, Katsina, Kano, Jigawa, parts of Kebbi, Niger, Kwara, Oyo, Ogun, Cross River, Bayelsa and Rivers states are predicted to likely experience a delayed onset when compared to their long-term averages.
2022 PREDICTION
Cessation of Rainy Season
Rainfall cessation is anticipated to begin in the north, from early-October to mid-November. This should gradually progress southward, to begin mid-November in the central states, and finally ceasing around mid-December in the southernmost parts of the country.

Cessation dates predicted across most parts of Nigeria for 2022 is near long-term average conditions (normal). However, it is expected to be delayed over parts of Cross River, Imo in the south and parts of Plateau, Kaduna, Kano, Bauchi and Yobe in the north. Areas of considerable concern are parts of Nasarawa, Benue, Kwara, Oyo and Anambra where cessation is predicted to occur earlier than the long-term averages.
2022 PREDICTION
Length of Rainy Season

LENGTH OF SEASON FORECAST FOR 2022

2022 LENGTH OF SEASON CHANGE MAP

LEGEND
SHORTER NORMAL LONGER
2022 PREDICTION Length of Rainy Season

• The length of growing season usually increases southwards from the north. For the year 2022 in the southern states, the length of season is likely to expand above 250 days but not more than 300 days. The Sahelian region is likely to have length of growing season between 90 to 200 days.

• On the other hand, the predicted length of growing season shows a large area of the country is expected to have length of season similar to the long-term average (normal), depicted by white shading in the map. Some areas around the southwestern region of Kwara, Oyo, Lagos, Nasarawa, Benue, Bayelsa, and Rivers are likely to experience length of growing season shorter than the long-term averages for these areas, (portions of the plot denoted in red). However, the areas in green (northern Plateau, southern Kaduna, Edo, Imo) will have longer length of season than the long-term average for these areas.
2022 PREDICTION
Rainfall Amount

2022 PREDICTED ANNUAL RAINFALL TOTAL

2022 PREDICTED RAINFALL DEPARTURE

LEGEND
ABOVE NORMAL BELOW
The predicted annual rainfall amount for the year 2022 is likely to range from 390mm in the far north to over 2790mm in the coastal states. Rainfall amount ranging from 390mm-790mm is likely in some parts of Borno, Yobe, Jigawa, Katsina and Sokoto states. The central states such as FCT, Nassarawa, Taraba, Kogi, Benue as well as Ekiti, Osun and Oyo are expected to have 1190mm to 1590mm. However, parts of Bayelsa, Akwa-Ibom, Delta, and Cross River states are predicted to have annual rainfall amounts of 2700mm and above.

In 2022, as depicted in the departure map, rainfall amount close to the long-term average (normal) is predicted for most parts of the country, with exceptions to areas in and around Yobe, Sokoto, Zamfara, Gombe, Adamawa, Niger, Kebbi, Kaduna and FCT which are predicted to experience rainfall amount below annual long-term rainfall average. However, areas around Katsina, Jigawa, Oyo, Ogun, Osun, Kogi, Delta, Imo, Bayelsa, parts of River and Akwa-Ibom are predicted to record rainfall amount above their annual long-term average.
2022 PREDICTION
Dry Spell

DRY SPELL FORECAST FOR MAY - JUNE 2022

DRY SPELL FORECAST FOR JULY - AUGUST 2022
The predicted 2022 dry spell for the month of May into June indicates a mild dry spell of less than 8 days in Taraba, Nasarawa, parts of Oyo, Niger, Ekiti, Plateau, Ogun, Osun, Edo and Anambra states. Moderate dry spell that is likely to persist for up to 15 days is predicted over parts of Adamawa, Benue, Kogi, Ekiti, Kwara, Niger, FCT, Kaduna, Sokoto, Kebbi and Gombe.

A severe dry spell is predicted over the following locations: (Arewa Dandi, Birnin Kebbi, Argungu, Augie) Kebbi, (Kai’ta, Mashi, Mai’Adua, Katsina, Dutsi, Daura, Baure, Zango) Katsina, (Gwiwa, Yankwashi, Gumel, Birniwa, Sule-Tankarkan, Guri, Kiri Kasama) Jigawa, (Machina, Nguru, Yusufari, Yunusari, Karasuwa, Barde, Jakusko, Geidam) Yobe, (Abadam, Mobbar, Kukawa, Guzamala, Gubio, Nganzai, Monguno) Borno, (Awe, Toto and Keana) Nasarawa, (Langtang South and Kanke) Plateau state in the month of June that may persist for up to 20 days or more.

The dry spell prediction for July to August 2022 shows a severe dry spell over northern Oyo (Saki, Iseyin, Orelope, Irepo, Atisbo, Iwajowa, Kajola, Ogbomosho). A moderate dry spell is predicted over Niger, Nasarawa, Gombe, Jigawa, Borno and the FCT and parts of Nasarawa, Kogi, Benue, Osun, Ondo, Ekiti and Kwara state. Mild dry spell is predicted the areas in colored green.
2022 PREDICTION
Little Dry Season (August Break)
2022 PREDICTION
Little Dry Season (August Break)

Signs of LDS (Little dry season) will suffice around 27th July to 1st of August in year 2022. Locations in Lagos and Kwara state are likely to experience severe cases of LDS lasting about 25 days or more. Parts of Ogun, Oyo, Osun and Ekiti will experience low to moderate effect that may last between 14-20 days. The event is not expected over Enugu and Edo.
2022 PREDICTION
January Temperature Forecast

JANUARY 2022 DAY TIME TEMPERATURE FORECAST

FORECAST OF 2022 JANUARY NIGHT TIME TEMPERATURE
2022 PREDICTION
February Temperature Forecast

2022 PREDICTED FEBRUARY DAY TEMPERATURES

FEBRUARY 2022 NIGHT TEMPERATURE FORECAST

LEGEND
COOLER
NORMAL
WARMER

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2022 PREDICTION
March Temperature Forecast

MARCH 2022 DAY TEMPERATURE FORECAST

MARCH 2022 NIGHT TEMPERATURE FORECAST

LEGEND
COOLER
NORMAL
WARMER

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2022 PREDICTION
April Temperature Forecast
**MARCH MENINGITIS VIGILANCE MAP**

**HAZARDS:** Winds and Relative humidity conditions are very much favourable for the emergence of meningitis.

**POTENTIAL IMPACT:** Meningitis cases are likely and epidemic status possible.

**HAZARD:** Activate meningitis surveillance.

**LEGEND**
- **High Vigilance**
- **Moderate vigilance**
- **Low vigilance**

**HAZARDS:** Dust, winds and Relative humidity conditions are very much favourable for the emergence of meningitis.

**POTENTIAL IMPACT:** Meningitis cases are very likely and epidemic status possible.

**HAZARD:** Activate meningitis surveillance.

**POTENTIAL IMPACT:** Meningitis cases less likely.
APRIL MENINGITIS VIGILANCE MAP

HAZARDS:
Winds and Relative humidity conditions are very much favourable for the emergence of meningitis.

POTENTIAL IMPACT:
Meningitis cases are likely and epidemic status possible.

HAZARD:
Activate meningitis surveillance.

HAZARDS:
Dust, winds and Relative humidity conditions are very much favourable for the emergence of meningitis.

POTENTIAL IMPACT:
Meningitis cases are very likely and epidemic status possible.

HAZARD:
Activate meningitis surveillance.

POTENTIAL IMPACT:
Meningitis cases less likely.

LEGEND
High Vigilance
Moderate vigilance
Low vigilance

Niger
Plateau
Kaduna
Bauchi
Kano
Jigawa
Katsina
Zamfara
Sokoto
Kebbi
Niger
Plateau
Adamawa
Cameroon

Lagos
Ondo
Benue
Akwa Ibom
Cross River
Nasarawa
Emef
Kogi
Anambra
Enugu
Ogun
Osun
Ekiti
Kwara
Oyo
Ogun

FCT
Maiduguri
Kwamari
Konduga
Borno
Yobe
Gombe
Adamawa

Nigerian Meteorological Agency

NiMet
MAY MENINGITIS VIGILANCE MAP

HAZARD
Dust, Wind and Humidity conditions are very much favourable for the emergence of meningitis

POTENTIAL IMPACT
Meninitis cases

MEASURES
Activate meningitis surveillance

HAZARD
Dust, Wind and Humidity conditions are very much favourable for the emergence of Meninitis

POTENTIAL IMPACT
Meninitis cases very likely and epidemic status possible

MEASURES
Activate Meningitis surveillance

POTENTIAL IMPACT
Meninitis cases less likely

Legend
- HIGH VIGILANCE
- MODERATE VIGILANCE
- LOW VIGILANCE
- NO VIGILANCE

NiMet
Nigerian Meteorological Agency
Overview of the 2022 Seasonal Climate Prediction Borno State

NIGERIAN METEOROLOGICAL AGENCY
2022 Onset Growing Season for Borno State

The onset of the growing season is likely to commence from 19th May in parts of Shani, Kwaya Kusar, Bayo and Hawul local government areas. Places around Damboa, Gwoza, Bama, Kaga, Konduga, Jere, Maiduguri, Dikwa, Kala-Balge and Mafa to expect their onset between 2nd to 15th of June. The northern parts of the Borno (parts of Mobbar and Abadam) are likely to experience their onset later from 30th of June.
2022 Cessation for Borno State

The end of season is expected to begin from the northern parts of the state, from 29th September over Abadam, Mobar, Kukawa and Guzamala. Places in and around Monguno, Nganzai, Marte, Ngala, Magumeri, Kala-Balge, Mafa, Dikwa, Maiduguri, Jere, Konduga and Kaga are anticipated to be from 5th to 13th of October. Askira Uba, Hawul, Bayo, Kwaya-Kusar and Shani in the southern part of Borno is likely to end from 19th of October.
2022 LoS for Borno State

The length of the growing season is predicted to be longer in the southern part of the state lasting above 145 days (Askira Uba, Hawul, Bayo, Kwaya Kusar and Shani). The length of season for Marte, Ngala, Magumeri, Jere, Maiduguri is from 109-121 days. Kukawa, Mobar and Abadam in the northern part of the state may likely to have less than 97 days.
The predicted rainfall amount for the southern part of the state may likely to be above 1060mm (Askira-Uba, Biu, Bayo and Shani). The predicted rainfall amount for Maiduguri, Jere, Konduga, Kaga, Bama, Gwoza, Damboa and Chibok is likely to be 650-960mm. The northern part of the state such as Mobar, Kukawa and Abadam may experience below 610mm.
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<th>Onset</th>
<th>End of Season</th>
<th>Length of Season</th>
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Overview of the 2022 Seasonal Climate Prediction 
Adamawa State 

NIGERIAN METEOROLOGICAL AGENCY
The Onset is predicted to begin from 19th April in and around Toungo and Ganye. Places around Fufure, Jimeta, Gombi, Numan, Lamurde, Song, Guyok, Maiha, Shellang, Girie and Mubi South their onset is between 6th to 20th of May. The northern parts of the state (Michika and Madagali) are likely to experience their onset later from 26th of May.
2022 Cessation for Adamawa State

The end of season is expected to begin from the northern parts of the state, from 30th October around Madagali and Michika axis. Places around parts of Numan, Lamurde, Gombi, Jimeta, Mayo-Belwa and Fufure from 9th to 14th November. However, the end of season for southern parts of state will likely be from 19th November 2022.
2022 LoS for Adamawa State

The length of the growing season is anticipated to be longer in the southern part of the state lasting above 200 days (Jada, Ganye and Teungo). The length of season for Shelleng, Maiha, Guyuk, Song, Lamurde, Numan, Gombi and Demsa is expected to be from 174 to 186 days. Michika and Madagali in the northern part of the state may likely experience about less than 162 days.
2022 Predicted Rainfall Amount for Adamawa State

The anticipated rainfall amount for the northern part of the state may likely to be below 1200 mm (places around Mubi North, Michika and Madagali). The predicted rainfall amount for Lamurde, Numan, Gombi, Demsa, Yola-North, Yola-South, Jimeta, Fufure and Mayo-Belwa is around 1300-1500 mm. The southern part of the state (Teungo), is expected to record above 1700 mm.
<table>
<thead>
<tr>
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<th>End of Season</th>
<th>Length of Season</th>
<th>Annual Rainfall (mm)</th>
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<td>Local Government Areas</td>
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<td>Annual Rainfall (mm)</td>
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Overview of the 2022 Seasonal Climate Prediction
Yobe State

NIGERIAN METEOROLOGICAL AGENCY
2022 Onset Growing Season for Yobe State

The onset is expected to begin from 31st May in places around Gulani, Gujba and Fika local government areas. Places around Potiskum, Nanagere, Damaturu and Fune are likely between 7th to 14th of June. The northern parts of the Yobe such as Machina, Yunusari and Yusufari re likely to experience their onset later from 28th of June.
2022 Cessation for Yobe State

The end of season is expected to start from the northern parts of the Yobe, from the 28th September over Yusufari, Yunusari, Machina, Nguru and Karasuwa. Places in and around Bade, Bursari, Geidam, Jakusko and Tarmua are anticipated to be from 3rd to 10th of October. Fika, Gujba and Gulani in the southern part of Yobe is likely to end from 16th of October.
2022 LoS for Yobe State

The length of the growing season is expected to be longer in the southern part of the state lasting above 133 days (Gulani). The length of season for Jakusko, Tarmua, Fune, Damaturu, Nangere and Potiskum may likely from 106-124 days. Karasuwa, Nguru, Machina, Yunusari and Yusufari in the northern part of the state may expected to have less than 97 days.
The predicted rainfall amount for the southern part of the state may likely to be above 720mm (Gulani). The predicted rainfall amount for Fune, Damaturu, Nangere, Potiskum and Fika are likely to be from 650-700mm. The northern part of the state such as Nguru, Yusufari, Yunusari and Machina experience below 620mm.
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<th>Length of Season</th>
<th>Annual Rainfall (mm)</th>
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Thank you for your attention!!