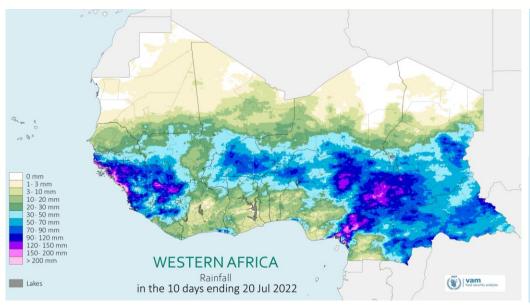


Key Highlights

- During the second dekad of July (11-20 July), heavy rainfall (above 90 mm) was received in coastal areas of southern Senegal, Guinea-Bissau and Guinea, in inland areas of Guinea, as well as in the south-eastern parts of the region, including in north-western Nigeria, Cameroon and southern Chad. In the rest of the region, including in coastal areas along the Gulf of Guinea and in the northern Sahel, light to moderate rains (up to 50 mm) were received.
- Compared to the long-term average, rainfall during the second dekad of July remained well below the long-term average in most coastal countries, from Sierra Leone through to Cameroon. Rainfall was also below normal in the north-western parts of the region (Senegal and Mauritania), as well as in south-western Mali. The central (Burkina Faso) and eastern parts of the region (eastern Niger, north-easter Nigeria, northern Cameroon and Chad) experienced above normal rainfall.
- These rainfall patterns reflect a trend observed over the past month, with drier than normal conditions recorded in the western parts of the country (except for central Burkina Faso and southern Cote d'Ivoire), while wetter than normal conditions prevailed over the eastern parts (eastern Niger, north-eastern Nigeria and Chad).
- The short-range forecast suggests that most of the region will likely receive below average rainfall, particularly the Central Sahel
 and coastal areas along the Gulf of Guinea. If these conditions materialise, drier than normal conditions will have been recorded
 between early July and early August throughout most of the region, particularly in the southern coastal areas.
- According to the PRESASS seasonal forecast updated in May 2022, average to above average seasonal rainfall is expected in most
 of the Sahelian Belt (from Senegal through to Chad), including Cabo Verde. Average to below average rainfall is expected in
 south-eastern Nigeria and south-western Cameroon. The seasonal forecast also suggests that the start of the season will be early
 to normal, with shorter than normal dry spells during the first half of the rainy season across the Sahelo-Sudanian zone.

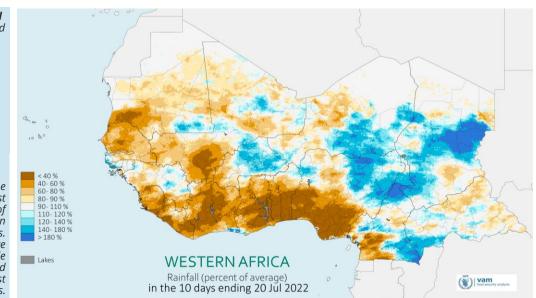


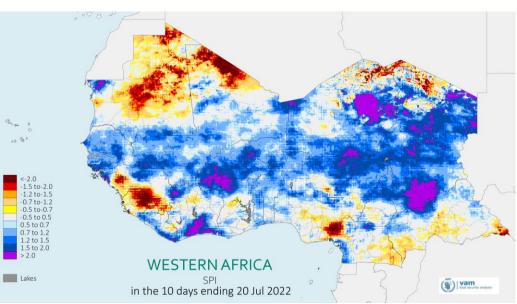
Rainfall patterns: 11 - 20 July 2022



The map to the left shows the total rainfall received over the last dekad (10 days), based on CHIRPS satellite rainfall estimates. Areas highlighted in light green have received little rainfall, while areas in dark blue or pink have received moderate to intense rains.

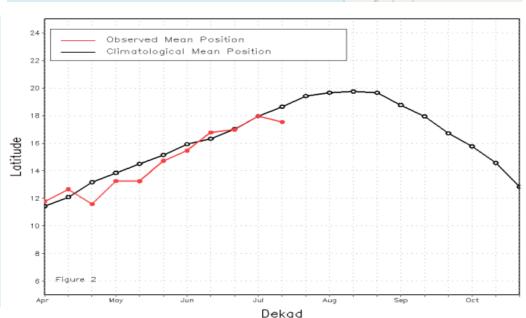
The map to the right shows the rainfall anomaly over the last dekad, expressed in percentage of the long-term average, based on CHIRPS satellite rainfall estimates. Areas in light to dark brown have received below average rains, while areas in dark blue have experienced above normal rainfall over the past 10 days.



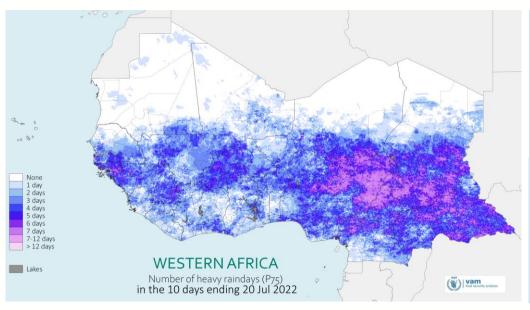


The map to the left shows the Standard Precipitation Index (SPI) for the last dekad, based on CHIRPS satellite rainfall estimates. This simultaneously shows the experience of wet conditions on one or more time scales, and dry conditions on other time scales. Blues - dark purple for wetter conditions, Yellow - Browns for drier conditions.

The graph to the right shows the current ITCZ position (red) compared to the long-term average (black). The ITCZ is the border between dry areas and areas where the rainy season is ongoing. Delays in the ITCZ progression lead to drier than normal conditions, while an above average ITCZ position is associated with above normal rains.

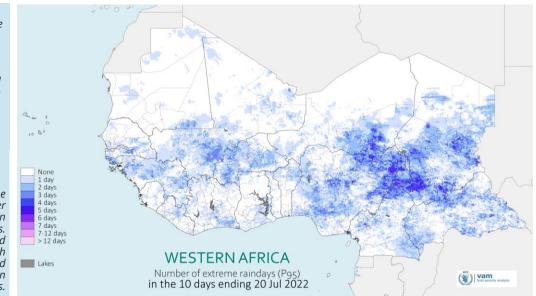


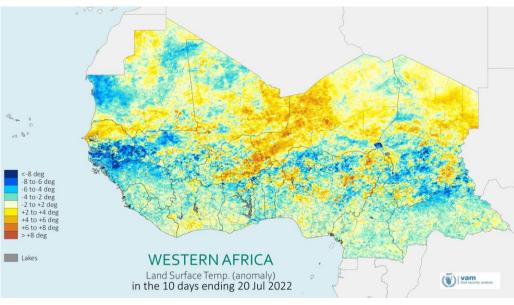
Extreme rainfall & temperature: 11 - 20 July 2022



The map to the left shows the number of heavy raindays over the last dekad (10 days), based on CHIRPS satellite rainfall estimates. Areas highlighted in dark blue and purple have experienced a high number of intense raindays (defined as days with a 75th percentile of rain received) over the last 10 days.

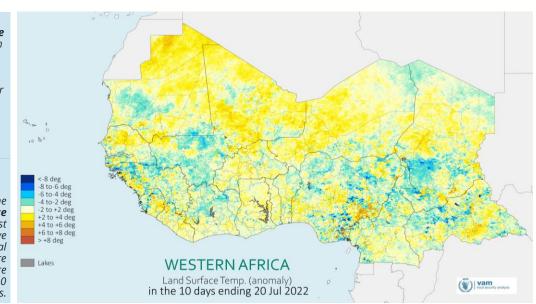
The **map to the right** shows the **number of extreme raindays** over the last dekad (10 days), based on CHIRPS satellite rainfall estimates. Areas highlighted in dark blue and purple have experienced a high number of intense raindays (defined as days with a 95th percentile of rain received) over the last 10 days.



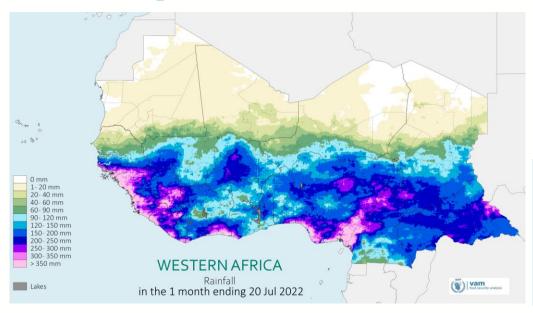


The map to the left shows the daytime land surface temperature anomaly for the last dekad. Areas in blue have experienced colder than normal temperatures, while the temperature in areas in yellow and brown were higher than normal over the last 10 days.

The map to the left shows the nighttime land surface temperature anomaly for the last dekad. Areas in blue have experienced colder than normal temperatures, while the temperature in areas in yellow and brown were higher than normal over the last 10

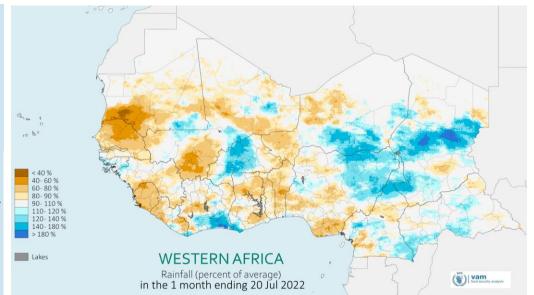


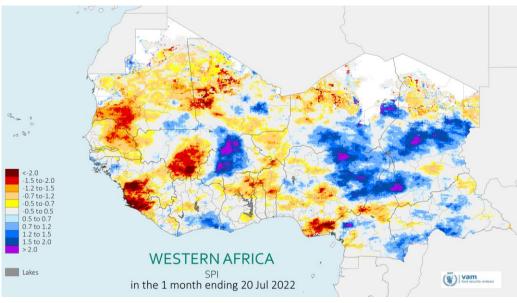
Rainfall patterns: The last month



The map to the left shows the total rainfall received over the last month, based on CHIRPS satellite rainfall estimates. Areas highlighted in light green have received little rainfall, while areas in dark blue or pink have received moderate to intense rains.

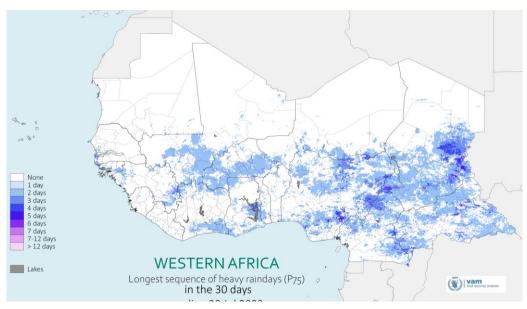
The map to the right shows the rainfall anomaly over the last month, expressed in percentage of the long-term average, based on CHIRPS satellite rainfall estimates. Areas in light to dark brown have received below average rains, while areas in dark blue have experienced above normal rainfall over the past month.





The map to the left shows the Standard Precipitation Index (SPI) for the last month, based on CHIRPS satellite rainfall estimates. This simultaneously shows the experience of wet conditions on one or more time scales, and dry conditions on other time scales. Blues - dark purple for wetter conditions, Yellow – Browns for drier conditions.

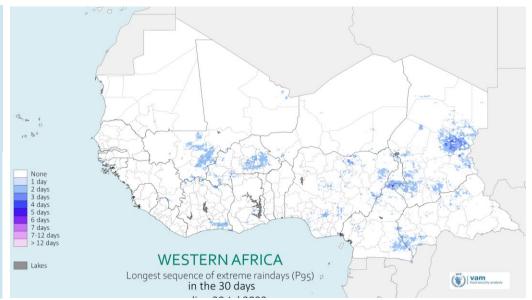
Rainfall extremes and temporal distribution: The last month

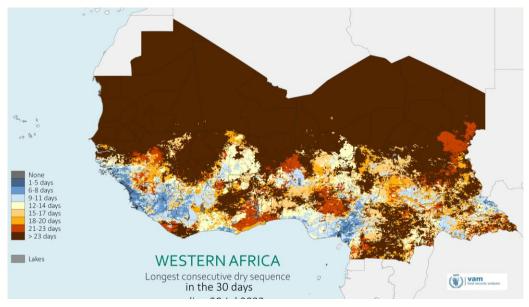


The map to the left shows the longest sequence of heavy raindays over the past month, based on CHIRPS satellite rainfall estimates. Areas highlighted in dark blue and purple have experienced longer sequences of intense raindays (defined as days with a 75th percentile of rain received) over the last 30 days.

The map to the right shows the longest sequence of extreme raindays over the past month, based on CHIRPS satellite rainfall estimates.

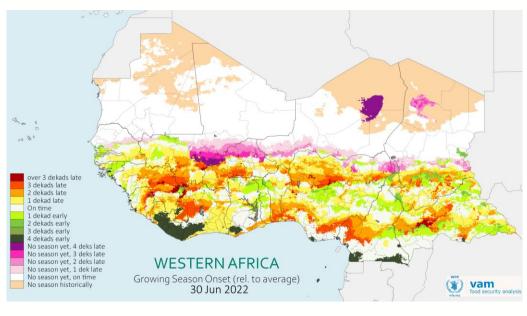
Areas highlighted in dark blue and purple have experienced longer sequences of intense raindays (defined as days with a 95th percentile of rain received) over the last 30 days.





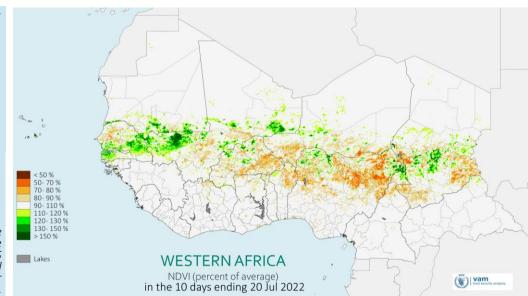
The map to the right shows the longest sequence dry sequence over the past month, based on CHIRPS satellite rainfall estimates. Araes in blue have experienced shorter dry sequences, while areas in brown have experienced longer ones. Note that in some areas, this is linked to the fact that the season has not started yet.

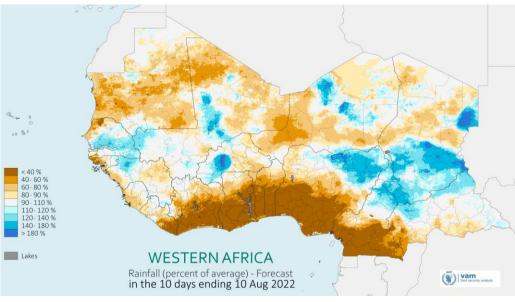
The progression of the season so far & the short-term outlook



The map on the left shows the start of the growing season anomaly, using the vegetation phenological cycle to show the possible start of sowing activities. Areas with delays in the onset of growing season are highlighted in yellow and red, while areas where the season has started earlier than normal are presented in green.

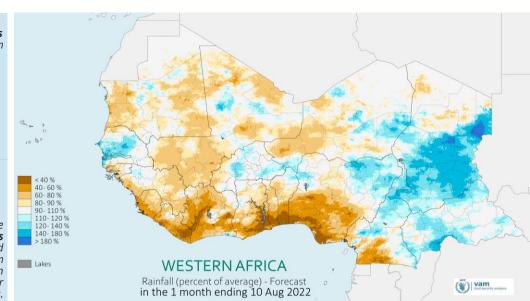
The **map on the right** shows the vegetation anomaly as a percentage of the average, based on the MODIS NDVI. Green for above normal vegetation, yellows and browns for vegetation production deficit.



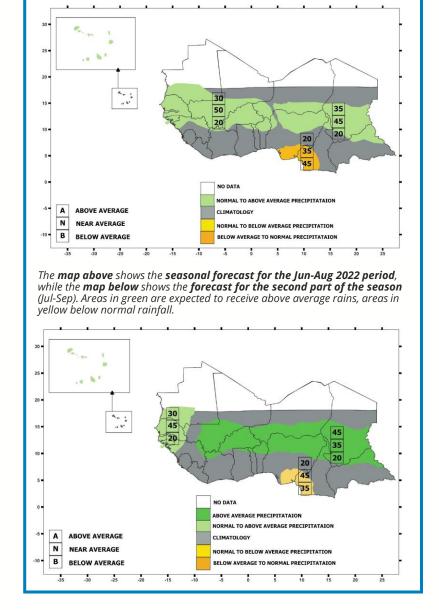


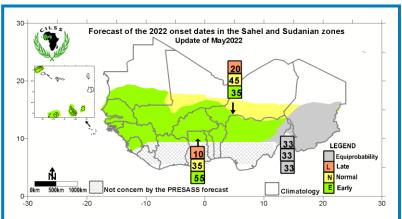
The map to the right shows the short-range CHIRPS-GEFS forecasts for the upcoming dekad, expressed in percentage of the long-term average. Blues for wetter than average conditions, browns for drier than average conditions.

The map to the right shows the short-range CHIRPS-GEFS forecasts for the upcoming month, expressed in percentage of the long-term average. Blues for wetter than average conditions.



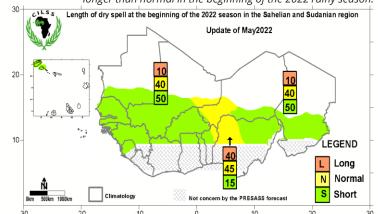
The medium-term outlook: the May 2022 PRESASS seasonal forecast Updated

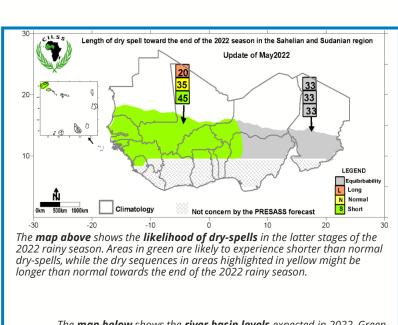




The **map above** shows the **forecast for the onset dates** of the 2022 rainy season. Areas in green are likely to experience an early start of the season, while the start of season is expected to be normal in areas highlighted in grey.

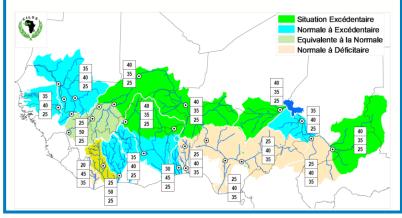
The **map below** shows the **likelihood of dry-spells** in the early stages of the 2022 rainy season. Areas in green are likely to experience shorter than normal dry-spells, while the dry sequences in areas highlighted in yellow might be longer than normal in the beginning of the 2022 rainy season.





The **map below** shows the **river basin levels** expected in 2022. Green indicates above normal river levels, blue normal to above normal levels, grey normal levels and pink below normal river levels compared to the long-term average.

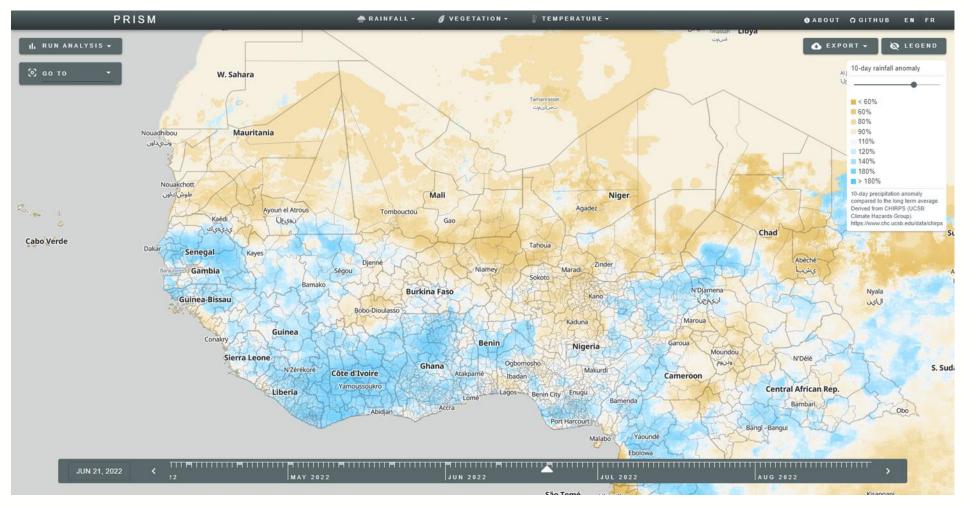
Perspectives des écoulements de la saison 2022 dans les bassins de l'espace CILSS/CEDEAO



The Platform for Real-time Impact and Situation Monitoring (PRISM)

RBD RAM is pleased to announce the launch of the **PRISM platform** for West Africa. In its deployment phase, PRISM will allow users to visualise download all key climate data used in this seasonal monitor. PRISM for real-time allows near monitoring of the progression of the rainy season, and to the historical rainfall. explore vegetation and temperature data.

In the coming months, additional hazards such as conflicts, as well as vulnerability layers including the historical Cadre Harmonisé (CH) Integrated Food Security Phase Classification (IPC) data will be incorporated into the platform. The integration of these layers will also allow users to run risk impact analyses. Further functionalities and impact analytics will be built into the platform in the future. RBD RAM will also explore the integration of external generated by national and regional partners.



You can access the RBD PRISM Platfom (internally and externally) by clicking on the map above, or through the following link: https://prism.dakar.wfp.org/.

For **more information on PRISM**, please visit this website: https://innovation.wfp.org/project/prism. For any specific enquiries about RBD RAM's **World Food** Geospatial Analysis workstream and the roll-out of the PRISM Platform in West Africa, please contact the RBD RAM Team (rbd.ram@wfp.org).



Data sources:

Rainfall: CHIRPS, Climate Hazards Group, UCSB Vegetation: MODIS NDVI, ESODIS-NASA

Data Processing:RAM software components,
ArcGIS, QGIS

For further information: RBD RAM Unit

WFP Regional Bureau for Western Africa (RBD) Dakar, Senegal <u>rbd.ram@wfp.org</u>