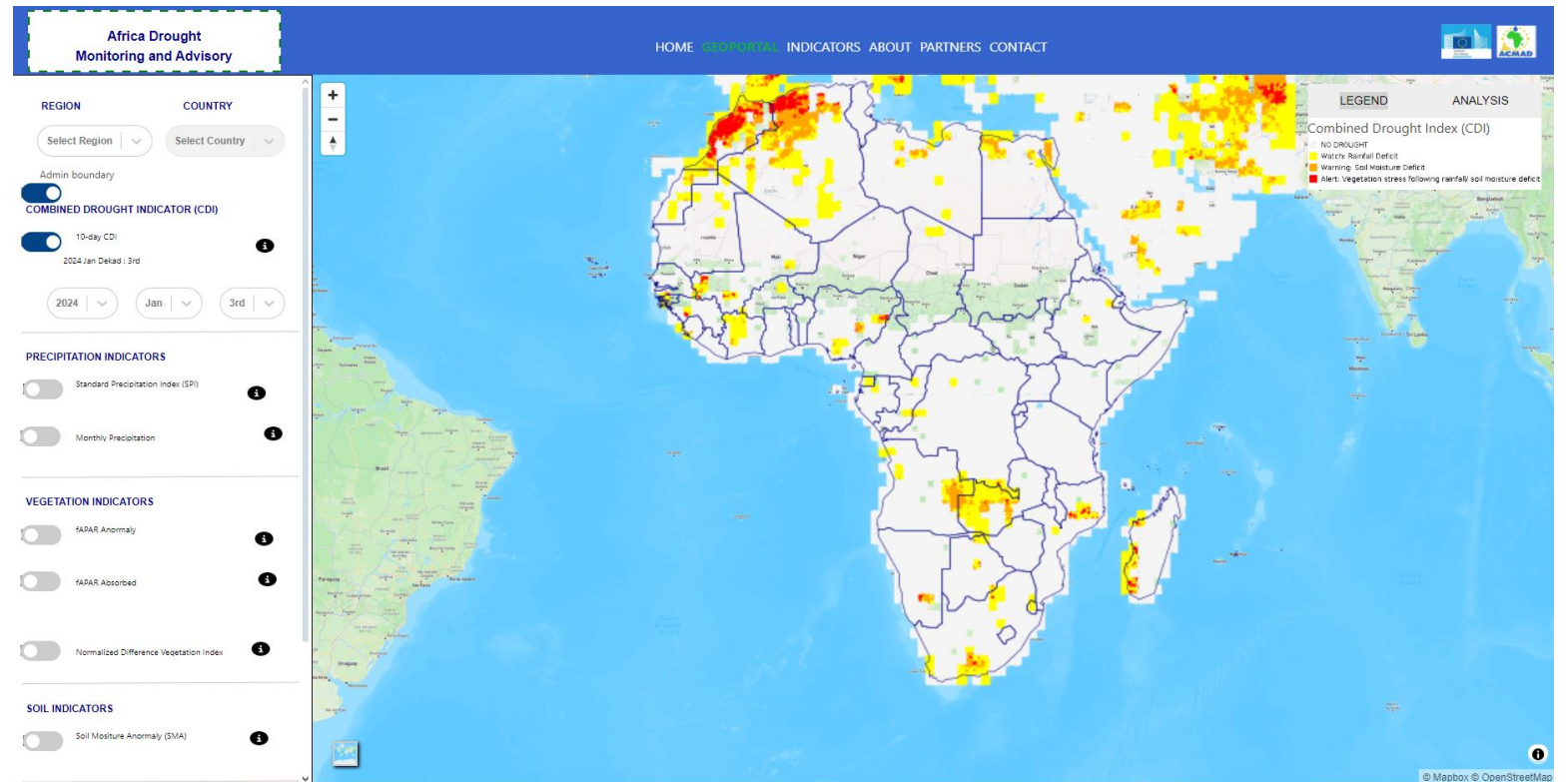


Africa Drought Monitoring and Advisory (ADMA)





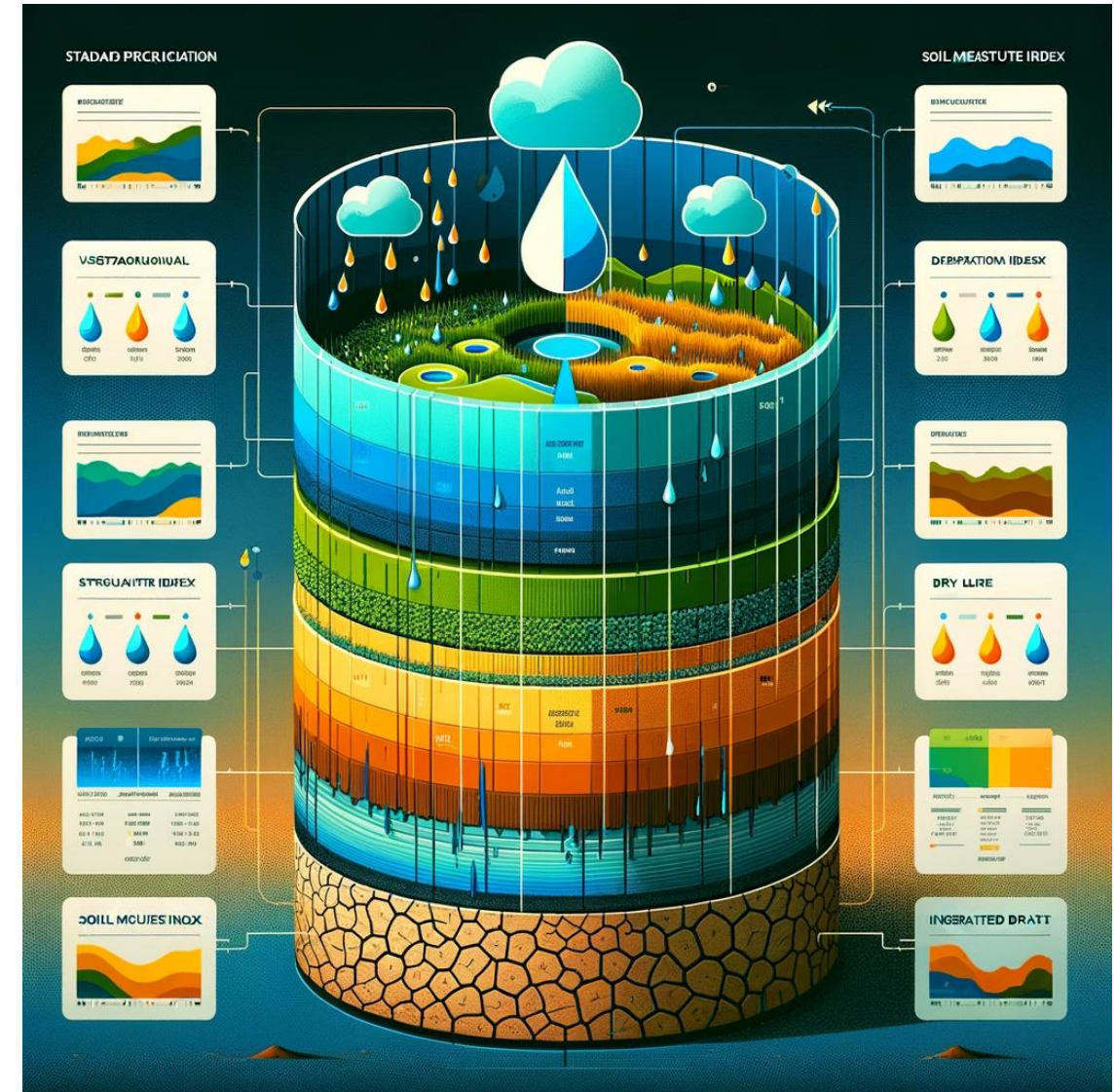
The team Collaborators

- Working Closely with JRC
- NORCAP Deploye'e's at ACMAD and WMO Addis Ababa
- ACMAD staff
- ICPAC



Africa Drought Monitoring & Advisory system

- Collection and storing of Drought related and vegetation observed indices.
- Visualization of the products.
- Report generation



<https://ada.acmad.org/>



Africa Drought Monitoring and Advisory

HOME **GEOPORTAL** INDICATORS ABOUT PARTNERS CONTACT



REGION **COUNTRY**

Select Region | Select Country

Admin boundary

COMBINED DROUGHT INDICATOR (CDI)

10-day CDI

2024 Jan Dekad : 3rd

2024 | Jan | 3rd

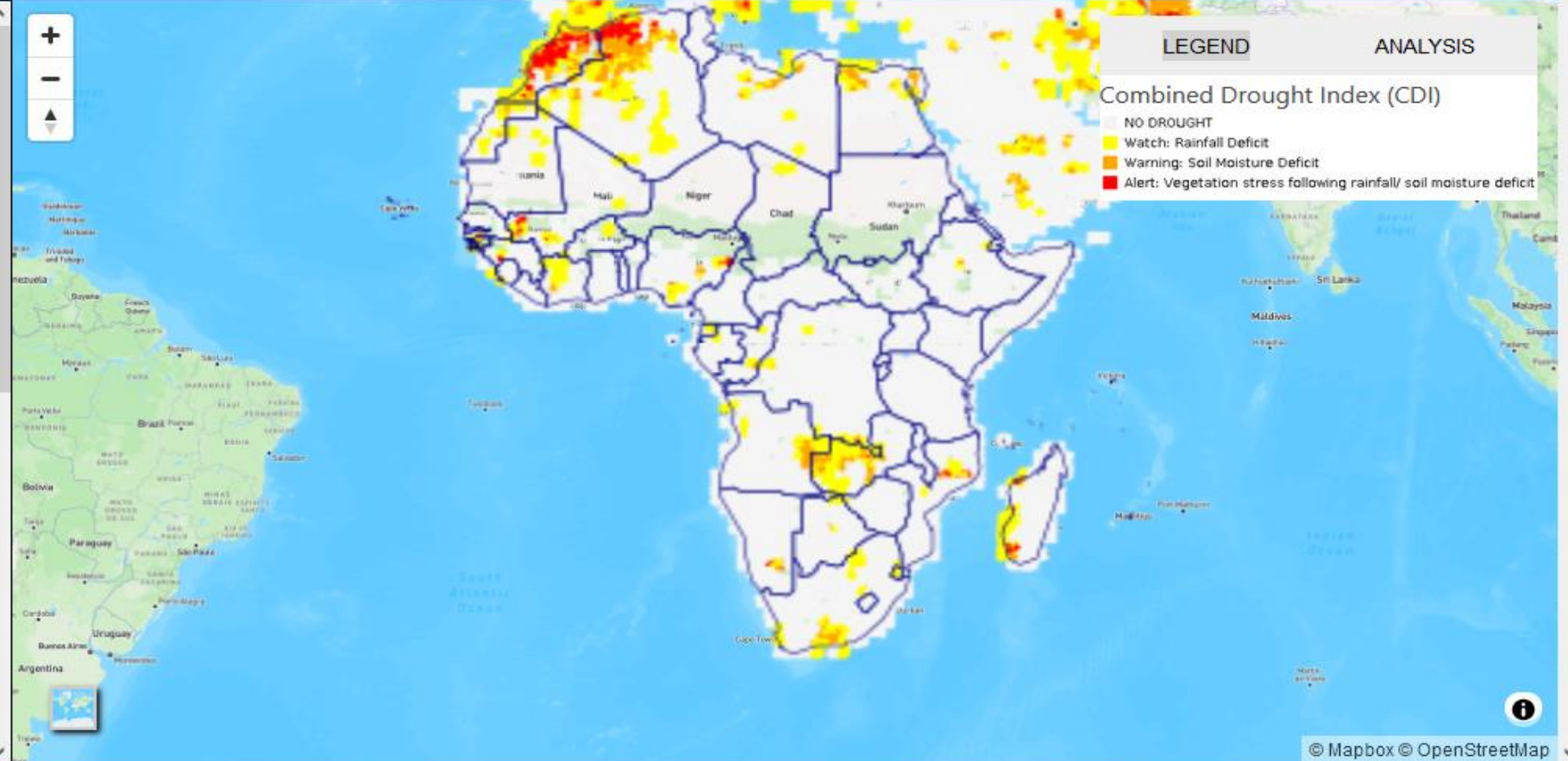
PRECIPITATION INDICATORS

Standard Precipitation Index (SPI)

Monthly Precipitation

VEGETATION INDICATORS

fAPAR Anomaly



© Mapbox © OpenStreetMap





ADMA Homepage

Africa Drought Monitoring and Advisory

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Drought Situation in Africa

Overview of Latest Drought Indications : 2nd Ten Days of Dec 2023

Country	Stress Level
Algeria	Low
Botswana	Low
Chad	High
Cote d'Ivoire	Low
Equatorial Guinea	Low
Guinea	Low
Madagascar	Low
Mauritania	Low
Mozambique	Low
Niger	High
South Africa	Low

Legend:
NO DROUGHT
Watch: Rainfall Deficit
Warning: Soil Moisture Deficit
Alert: Vegetation stress following rainfall/soil moisture deficit

ADMA is a near-real-time system that uses Earth Observation and Weather information to monitor drought conditions in Africa. It contains drought-relevant information such as maps of indicators derived from different data sources (e.g., precipitation measurements, satellite measurements, and modelled soil moisture content). Different tools, like Dashboards that allow for displaying and analysing the information and drought reports, give an overview of the situation in case of imminent droughts. When installing a Drought Monitoring system in a regional meteorological agency, the system offers the possibility to automate data-inception, control, interpolation, computation of anomalies, and high-quality web mapping.

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Reach of the System

Users from 10 Countries

52 new users





Tools



Graphical user interface tools



Data integration to produce drought combined index



Ability to download raster file (tiff format)



Enabling tools: report generation



Products available

- Standard Precipitation Index
- Monthly precipitation
- Vegetation index (NDVI)
- Land Use
- fAPAR anomaly
- fAPAR absorbed
- Soil moisture Anomaly
- Combined drought index

Applications who needs this



Everyone



Climate and environment related institutions



Agriculture departments



Disaster planning and monitoring units



Climate scientists and practitioners

Planning for future updates



Integration of Forecasting products in the generation of Forecasted Drought index



Machine Learning and AI integration in the reporting Component



Integration of Social Economic Layers



Wider consultations with stakeholders through user engagement



Communication and Collaboration (subscription for Alerts)



Continuous Learning and Adaptability

Current Future Trends

- Integration of AI and Advanced Machine Learning: Further enhancing data analysis, predictive modelling Language model for Geospatial applications, and automation in GIS applications.
- Googles Deep mind: Graph Cast AI model for faster weather prediction
- Advancements in Real-Time Data Analysis: Enabling faster decision-making and response in areas like disaster management and urban planning.



Thank you!

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