



# APFM

ASSOCIATED PROGRAMME  
ON FLOOD MANAGEMENT

# IDMP

INTEGRATED DROUGHT  
MANAGEMENT PROGRAMME

## Virtual Exchange On Drought Indicators and Indices

24 October 2023





**CIIFEN**

# Updates from CIIFEN

(International Research Center on El Niño)



- 6 Andean countries Drought Monitors (Bolivia, Colombia, Chile, Ecuador, Perú and Venezuela)
- Western South American countries Drought Monitor
- South America Drought Monitor

# 6 Andean countries Drought Monitors phase 2

(Bolivia, Colombia, Chile, Ecuador, Perú and Venezuela)



Strategic Drought Monitor Plans development



Drought Monitors improvement (Strategic Plan implementation).



Expand Voluntary monitoring and input data on the Drought Monitors

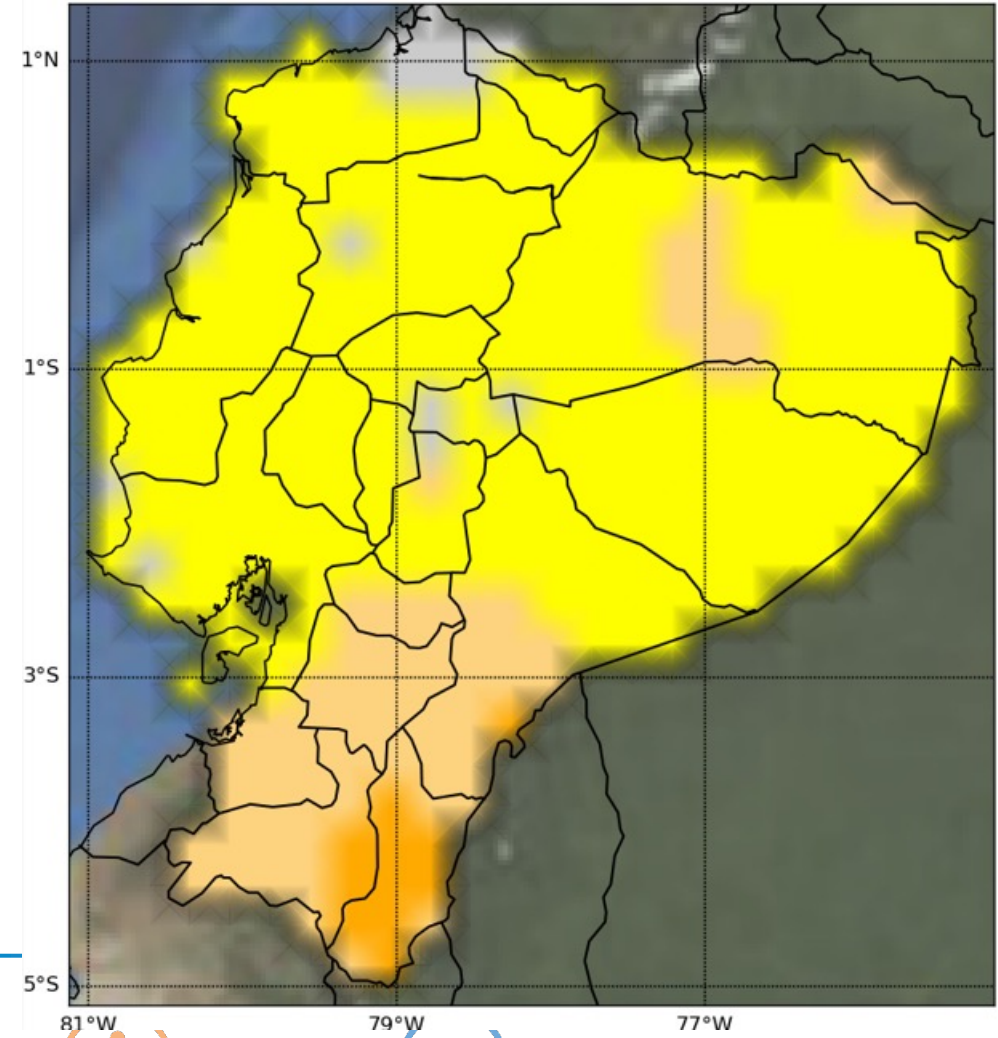


Define drought tresholds for EW: agriculture, energy, water resources & diaster risk.



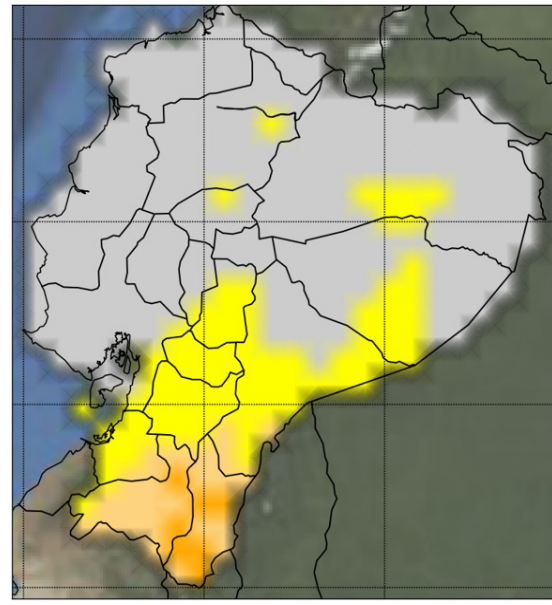
# ECUADOR CONTINENTAL

Monitor de sequía de Ecuador: 01 mes  
Período: 09-2023

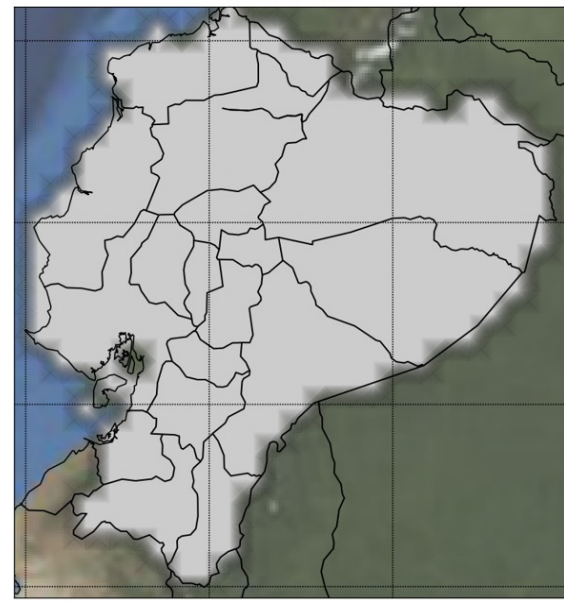


- Intensidad de sequía**
- Sequía excepcional
  - Sequía extrema
  - Sequía severa
  - Anormalmente seco
  - Normal

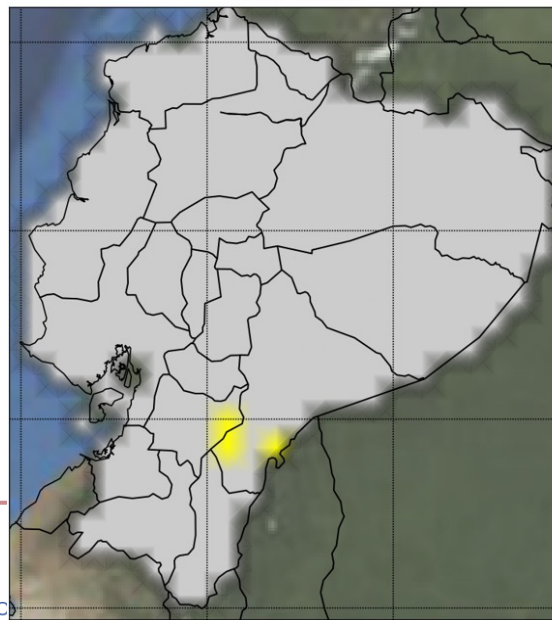
Monitor de sequía de Ecuador: 03 meses  
Período: 09-2023



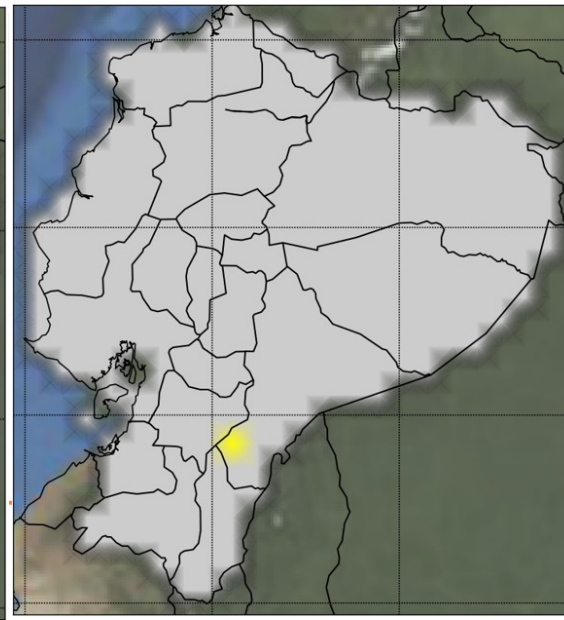
Monitor de sequía de Ecuador: 06 meses  
Período: 09-2023



Monitor de sequía de Ecuador: 09 meses  
Período: 09-2023



Monitor de sequía de Ecuador: 12 meses  
Período: 09-2023



# Western South American countries Drought Monitor

Ensemble the 6 National Drought Monitors (like NADM). Work with Countries to define and agree on the international boundaries results

Bolivia has 2 monitors (CIMA and CIIFEN). Test performance to define which to use for the Regional Drought Monitor

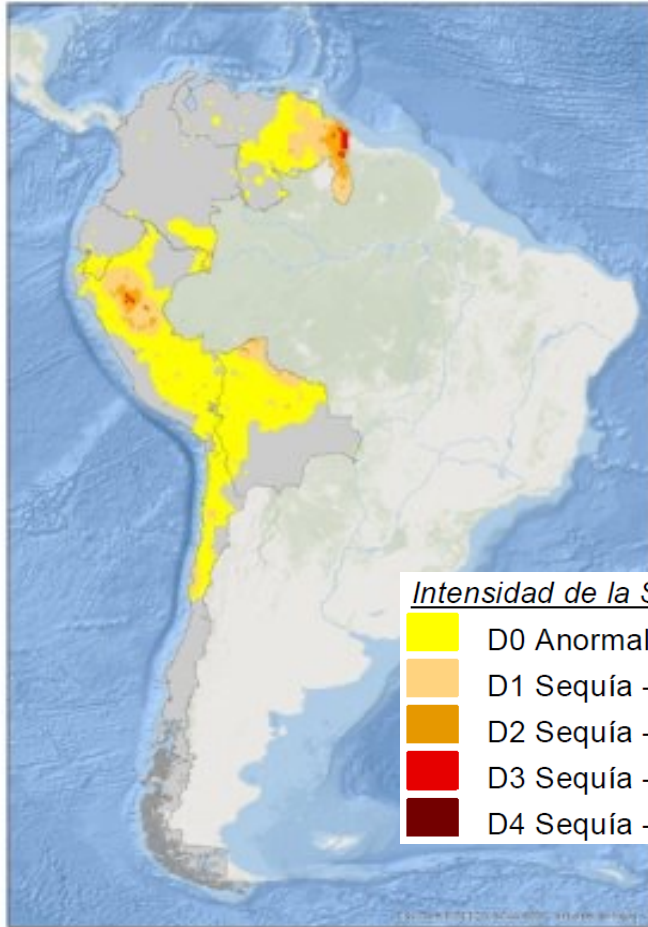
Perú apparently has 2 monitors (NDMC and CIIFEN). The CIIFEN monitor is operational and the other not yet



# Western South American Drought Monitor

August 2023

September 2023



*Intensidad de la Sequía:*

<span style="color: yellow;">■</span>	D0 Anormalmente Seco
<span style="color: orange;">■</span>	D1 Sequía - Moderada
<span style="color: brown;">■</span>	D2 Sequía - Severa
<span style="color: red;">■</span>	D3 Sequía - Extrema
<span style="color: darkred;">■</span>	D4 Sequía - Excepcional

- An area of intensifying drought persists in the northern Peruvian highlands that extends north, reaching southern Ecuador.
- Drought in eastern Venezuela spreading to the west.
- Moderate drought conditions on the Bolivian side of the Lake Titicaca basin.
- El Niño Effects.

# South American Drought Monitor

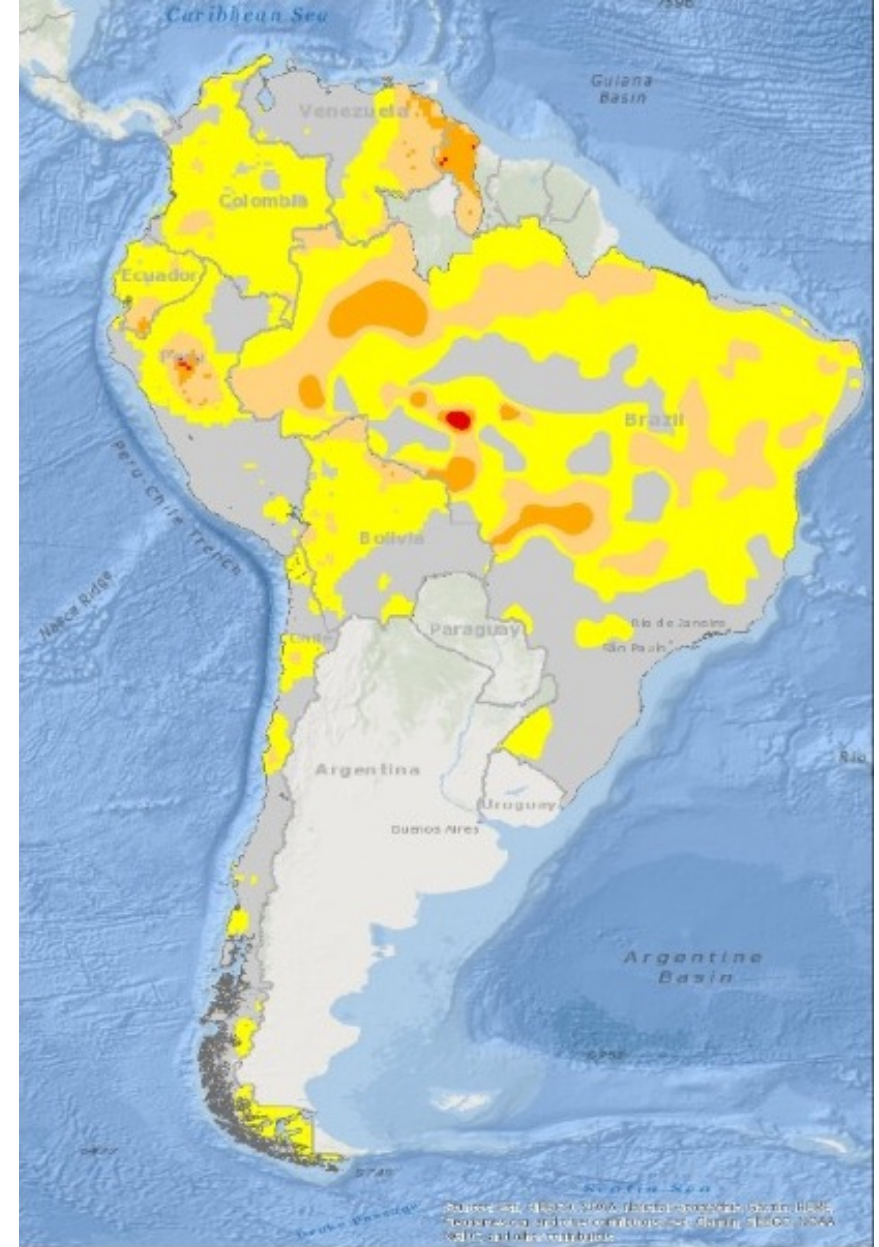
Facilitate dialogue and agreement with other ongoing initiatives  
SISSA and ANA Brasil

SISSA (SPI drought monitor). ANA Drought Monitor equal to the  
Western countries drought monitor

It was originally proposed in October to WMO Region III a joint  
workshop to start the process

# South American Drought Monitor

- Initial ensemble of the Western South American countries Drought Monitor with ANA (Brazil) Drought Monitor (September 2023)
- It can be the initial step for a Continental Drought Monitor
- CRC SAS can ensemble the Eastern part drought monitors of the continent
- CIIFEN (CRC OSA) ensemble the western and develop the northern part (Guyana's and Suriname and Central America)





# Thank you

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