



# SISSA

## Drought Information System for southern South America

A project of WMO Regional Climate Center for southern South America



SISSA addresses all three IDMP drought pillars...

### SISSA Pillars

Monitoring and Prediction

Vulnerability and impact assessment

Planning, Preparation, Mitigation

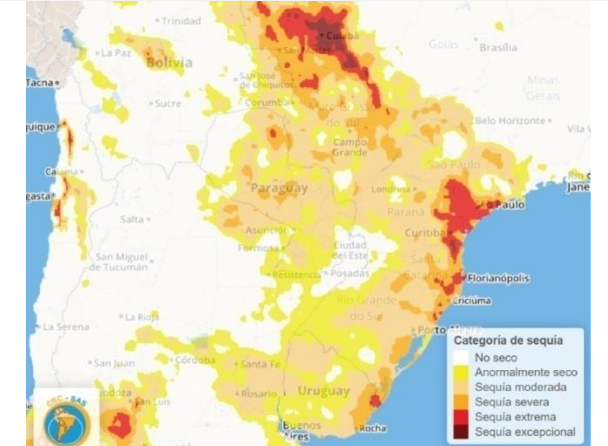


# Monitoring and Prediction

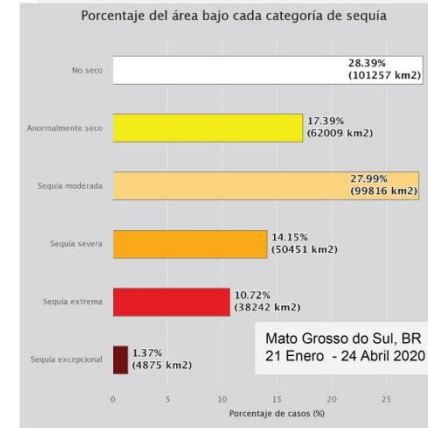
- Regional database of meteorological data updated *daily* (for most countries).
- Satellite data complement sparse *in situ* networks.
- Diagnostics now produced consistently for entire region.
- Easy access to raw and derived data through SISSA API.
- See <https://sissa.crc-sas.org>



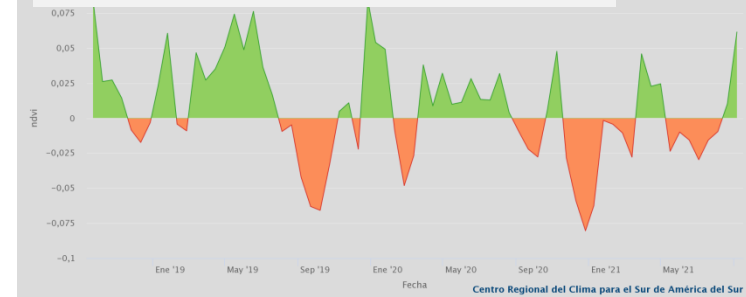
## Drought categories from satellite (CHIRPS) precipitation



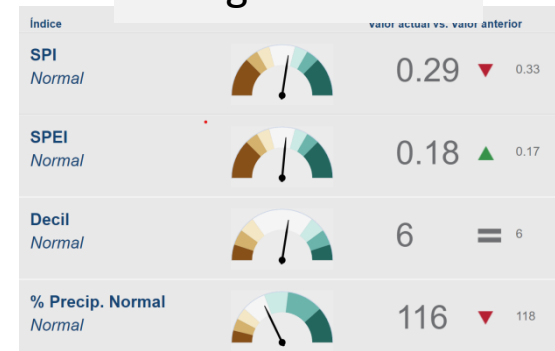
## Areas under drought categories



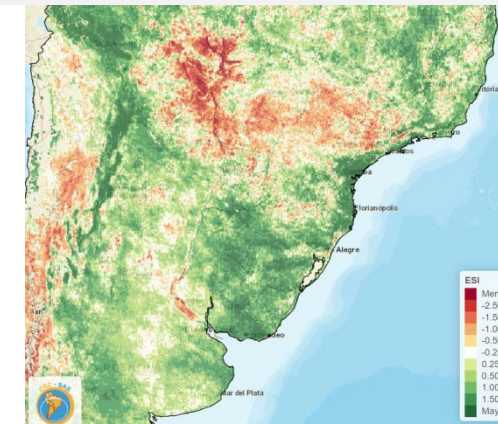
## Vegetation index anomalies



## Current status of drought indices



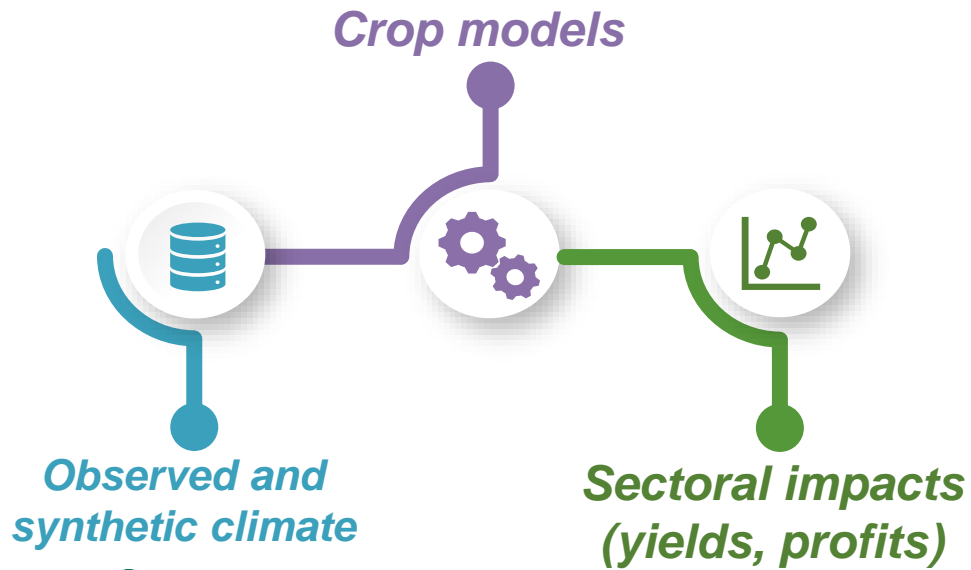
## Evaporative Stress Index (NASA)



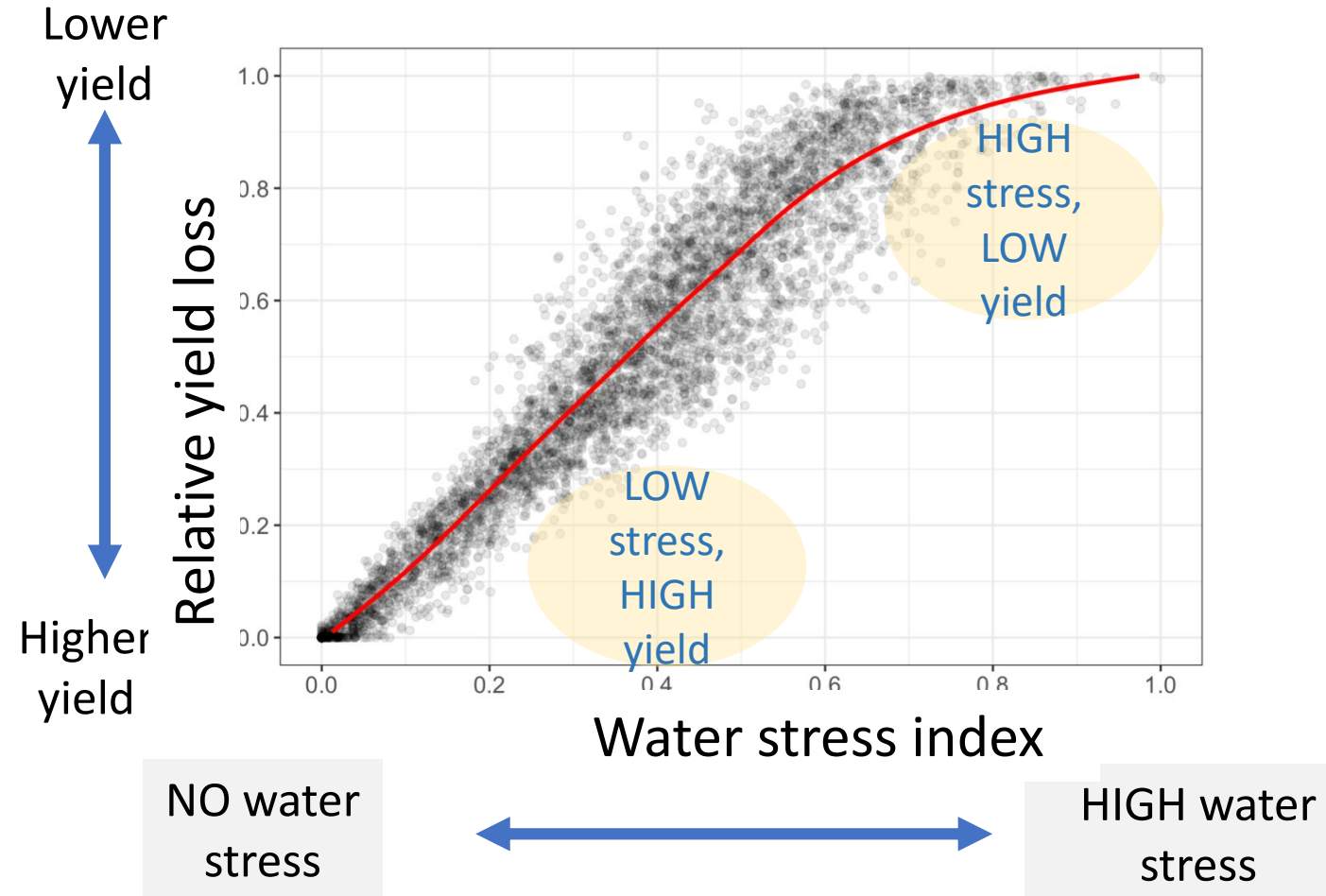
# Vulnerability and Impact Assessment

Characterization of drought impacts on major crops:

- Soybean: Five SSA countries among global top 10 producers
- Probabilistic impacts: synthetic climate series are linked with crop models



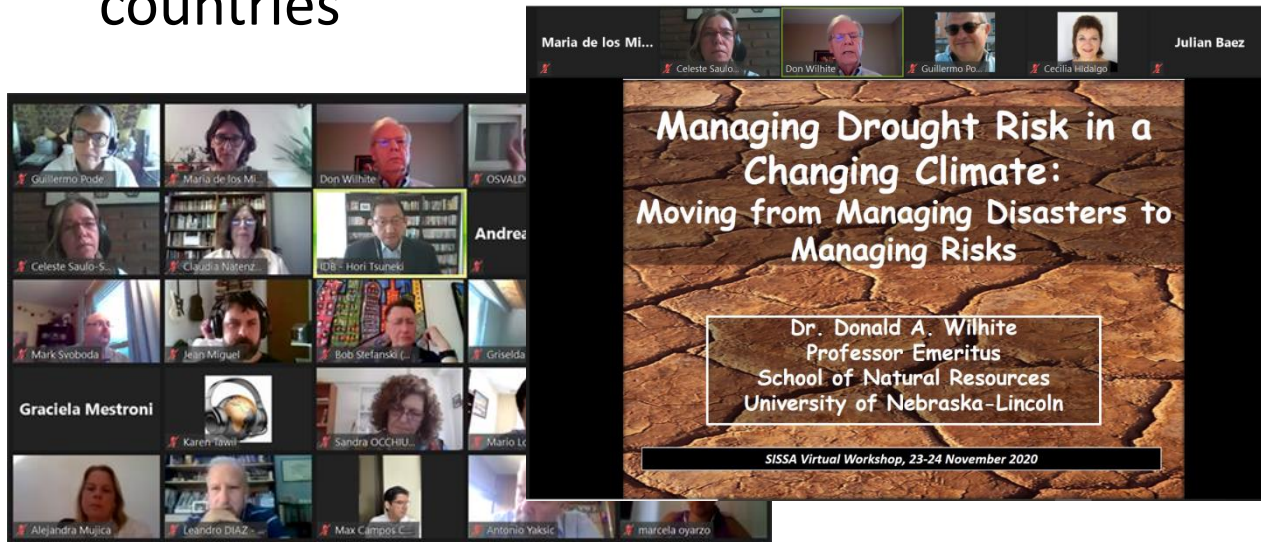
Vulnerability curve



# Planning, Preparation, Mitigation

- Regional process to help foster development of national drought plans
- Proto-plans being developed in a few countries

In collaboration with partners...



With gratitude to our sponsors...



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Cecilia Hidalgo  
Coordination Unit SISSA  
[proyecto.sissa@gmail.com](mailto:proyecto.sissa@gmail.com)

