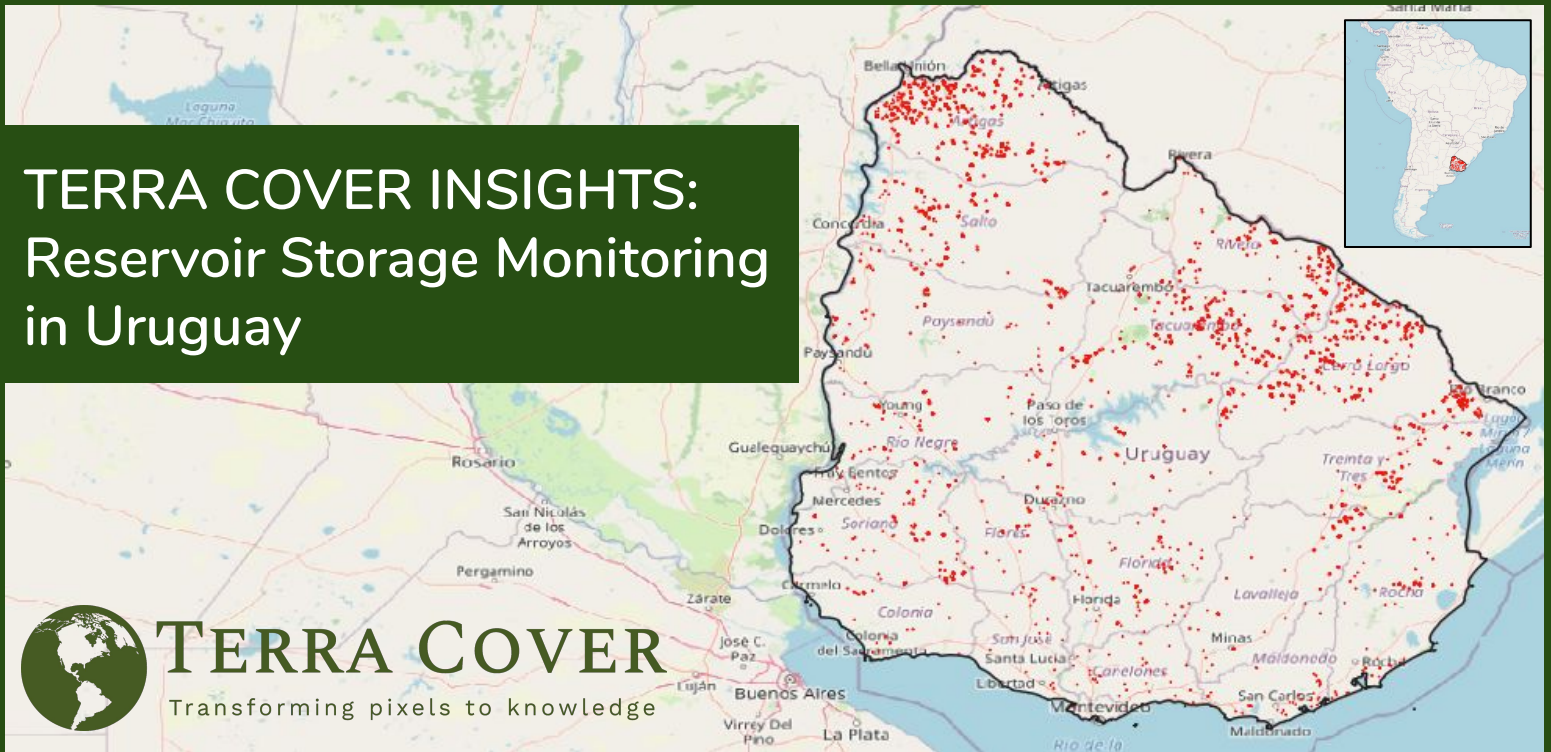
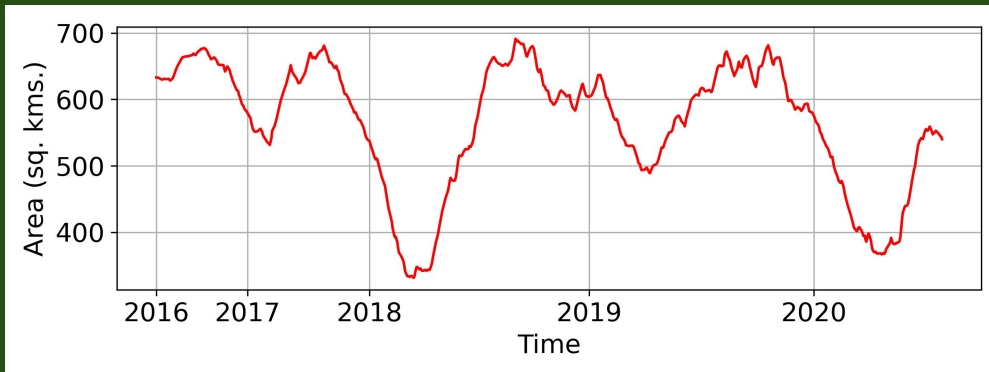


# TERRA COVER INSIGHTS: Reservoir Storage Monitoring in Uruguay



Analyzing satellite imagery to monitor surface area changes in reservoirs.

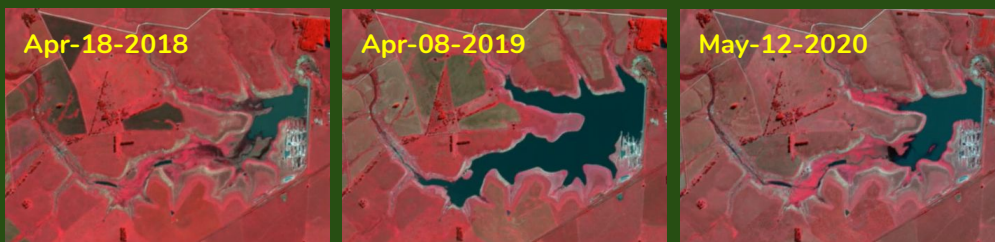
Uruguay features unique surface water because a vast majority is present in man-made reservoirs and impoundments. With more than 80% of surface water used for irrigation, regular monitoring of changes provides valuable insights about availability for agriculture and other economic activities.



Surface area variations from January 2016 till July 2020 of 1329 reservoirs (smaller than 10 sq. kms.) in Uruguay.

## IMPACT of 2018 DROUGHT

- 2018 drought was one of the worst weather disasters for Uruguay costing ~ \$500 million.
- According to our analysis, total surface area reduced by 40% compared to baseline area.
- 2020 is also appearing to be a very dry year for Uruguay.



Sentinel-2 imagery (false color composite) of a reservoir in the summer season for years 2018, 2019 and 2020. The reservoir is at very low levels in 2020 similar to 2018 which was one of the worst droughts in Uruguay.

## DATA SPECIFICATIONS

- Reservoirs Monitored: 1329
- Minimum Size: 0.01 sq. kms.
- Frequency: Weekly
- Spatial Resolution: 10m
- Duration: 2016 - present