

Team Work Presentation

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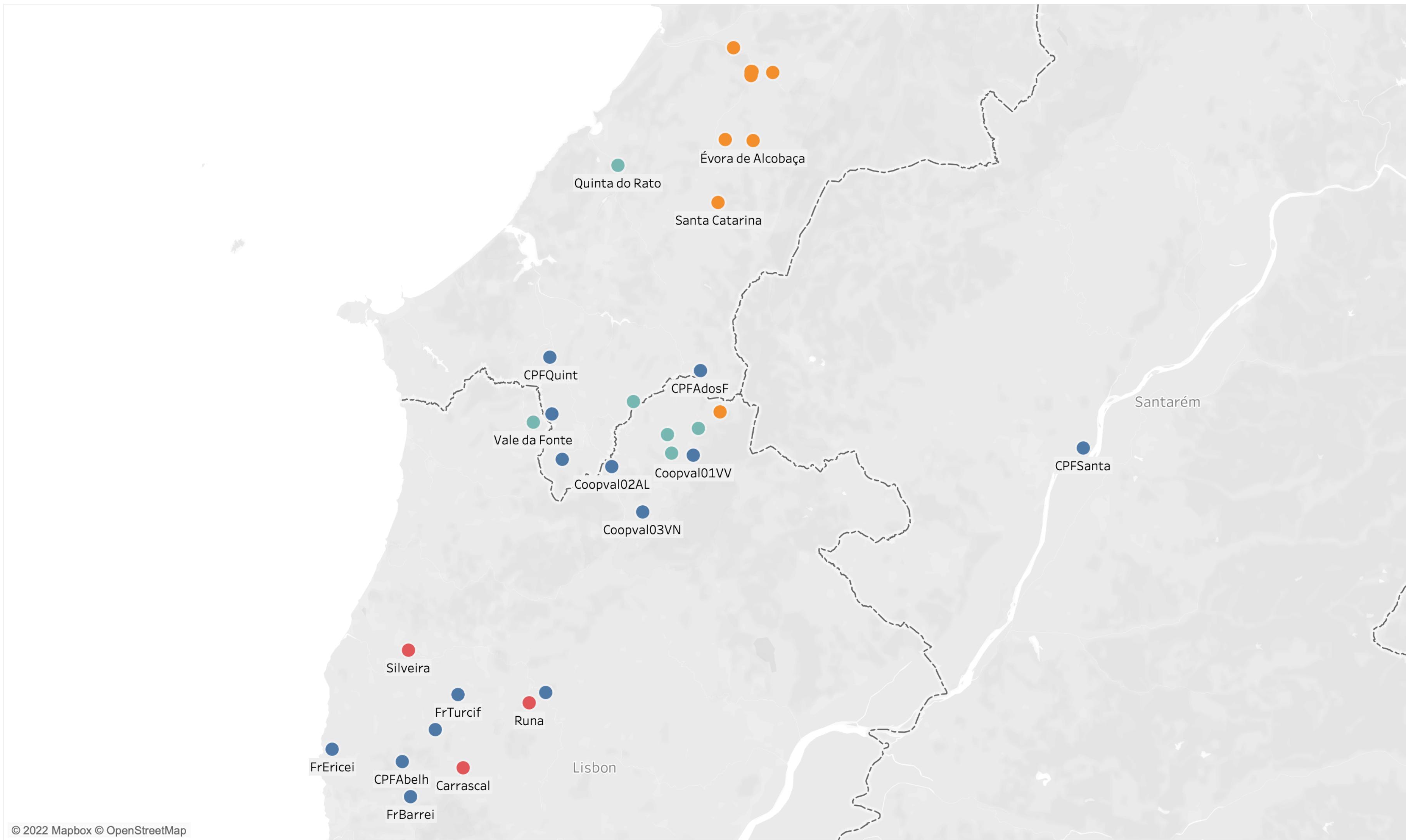
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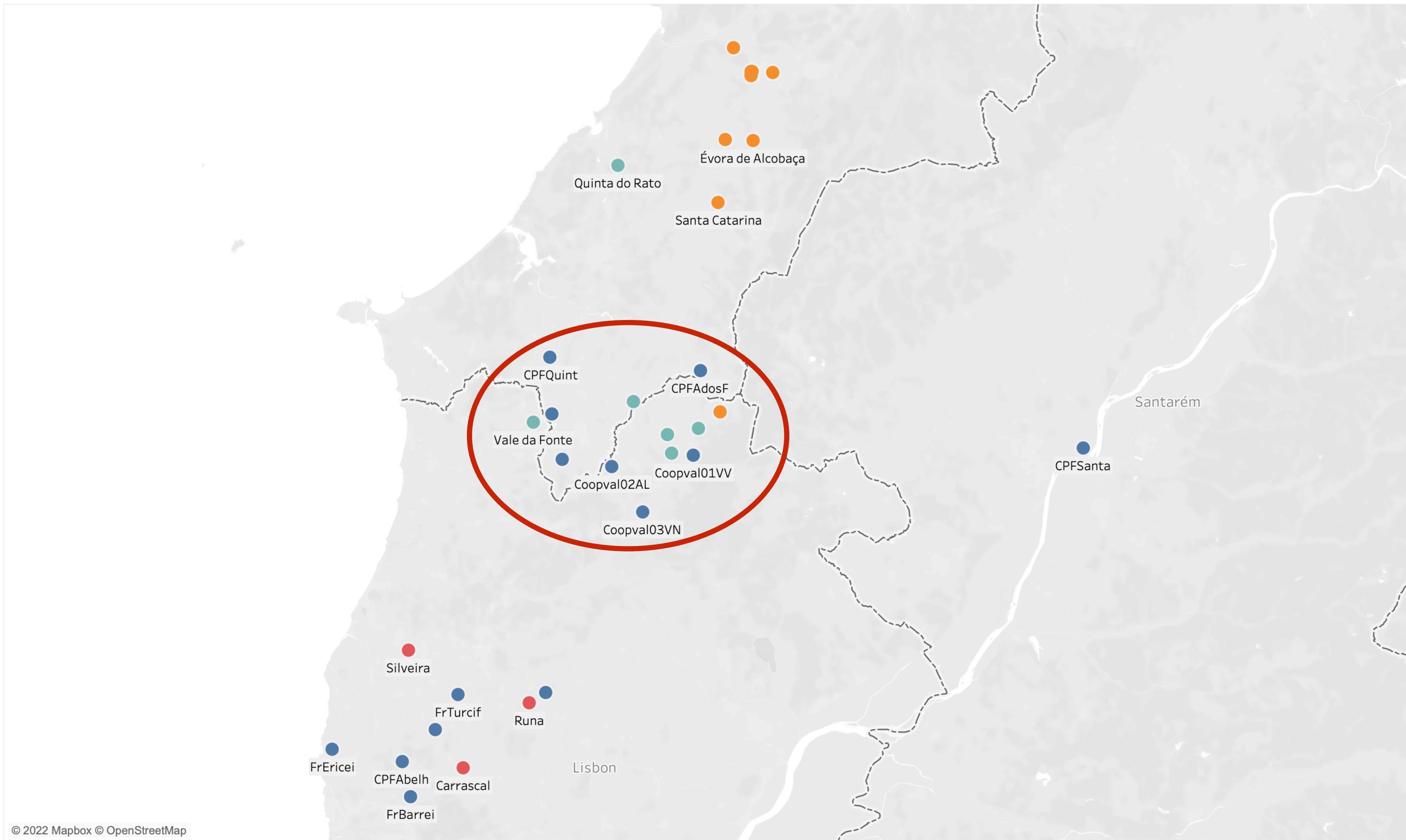
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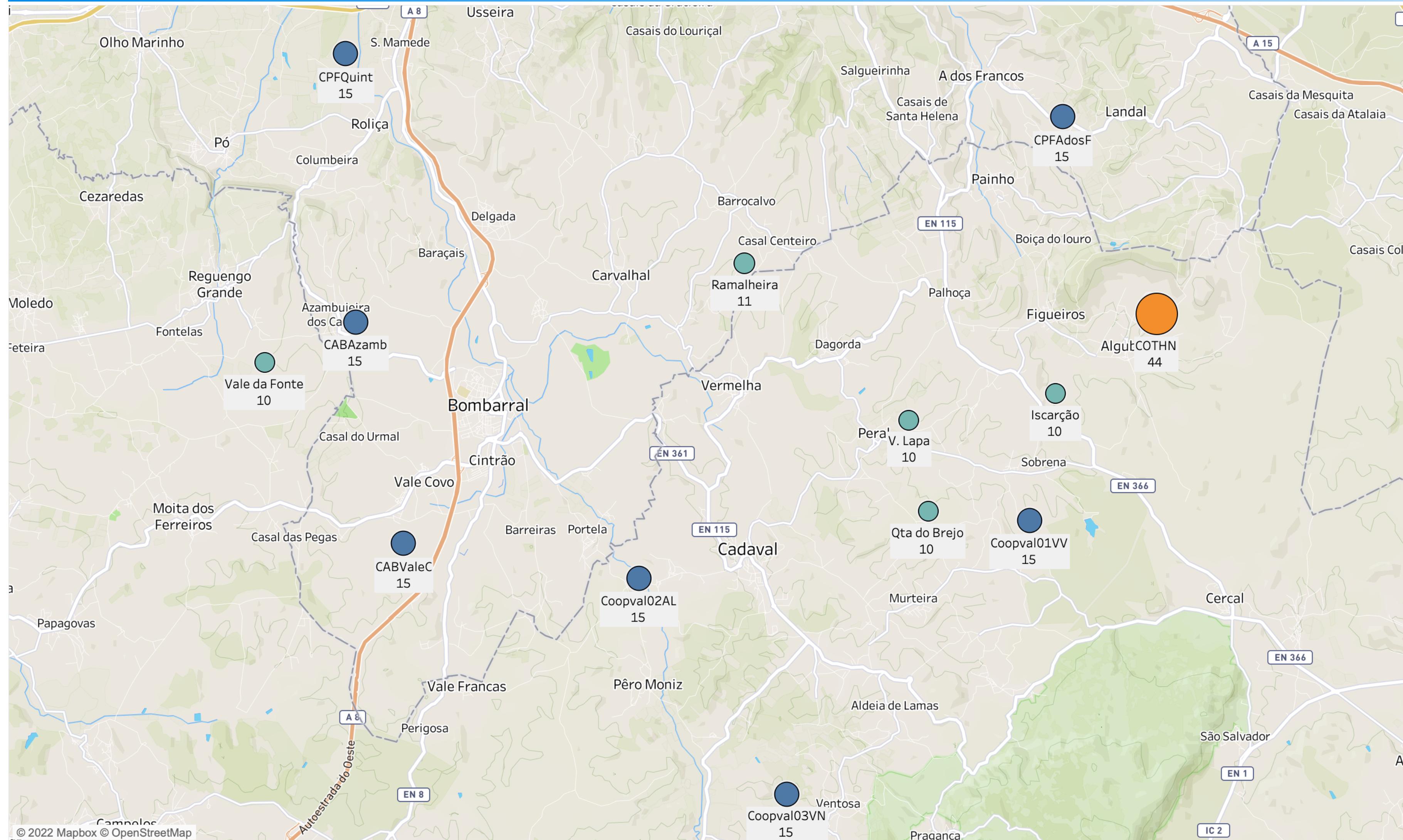
- Weather Information from weather stations
- Data Organization
- Data Processing

Weather Information from weather stations





Where. Number of data series



Dataprovider Name

- █ APAS
- █ PESSL
- █ WiseCrop

Data series and Data Points

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Dataprovider Name	Datasource Name	Count of SourcesAndSeries.csv	Count of seriesdata_p.csv	Pob Station
APAS	CABAzamb	15	1,043,434	
	CABValeC	15	1,040,170	
	Coopval01VV	15	1,022,017	
	Coopval02AL	15	1,046,533	
	Coopval03VN	15	1,028,852	
	CPFQuint	15	1,028,804	
PESSL	COTHN	44	918,954	
WiseCrop	Iscarção	10	699,525	
	Ramalheira	11	768,188	
	V. Lapa	10	612,419	
	Vale da Fonte	10	665,069	
				False
				True

Measures, Aggregation and Sampling rate

Serie: Measure	Serie: Aggregation	Serie: Time resolution	Dataprovider Name / Datasource Name								Vale da Fonte	Pob Station		
			APAS				PESSL		WiseCrop					
			CABAza..	CABVal..	Coopval..	Coopval..	CPFQuint	COTHN	Iscarção	Ramalh..	V. Lapa			
air_temperature	max	15M	69,694	69,511	68,306	69,841	68,720	68,826	69,694					
	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826	69,694	70,176	70,090	61,429	66,744	
	min	15M	69,694	69,511	68,306	69,841	68,720	68,826	69,694					
dew_point_depression	mean	15m	67,718	67,016	65,733	68,759	66,772	65,240			68,964	68,594	60,447	65,464
dew_point_temperature	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826	69,694	69,153	68,784	60,540	65,653	
	min	15M							69,694					
leaf_wetness	accumulated	15M	69,694	69,511	68,306	69,841	68,720	68,826	70,179	70,176	70,090	61,429	66,744	
precipitation_amount	sum	15M	69,694	69,511	68,306	69,841	68,720	68,826	70,179	70,176	70,090	61,429	66,744	
reference_evapotranspir..	mean	15M							9,537					
relative_humidity	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826	69,694	70,176	70,090	61,429	66,744	
soil_temperature	max	15M							70,179					
	mean	15M							70,179					
	min	15M							70,179					
solar_irradiance	max	15M	69,694	69,511	68,306	69,841	68,720	68,826						
	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826			70,176	70,090	61,429	66,744
surface_air_pressure	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826						
water_vapor_saturation..	mean	15M												
wind_from_direction	max_wind_speed	15M	69,694	69,511	68,306	69,841	68,720	68,826						
	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826			70,176	70,090	61,429	66,744
wind_speed	max	15M	69,694	69,511	68,306	69,841	68,720	68,826	70,179	70,176	70,090	61,429	66,744	
	mean	15M	69,694	69,511	68,306	69,841	68,720	68,826	70,179	70,176	70,090	61,429	66,744	

A sample of the data

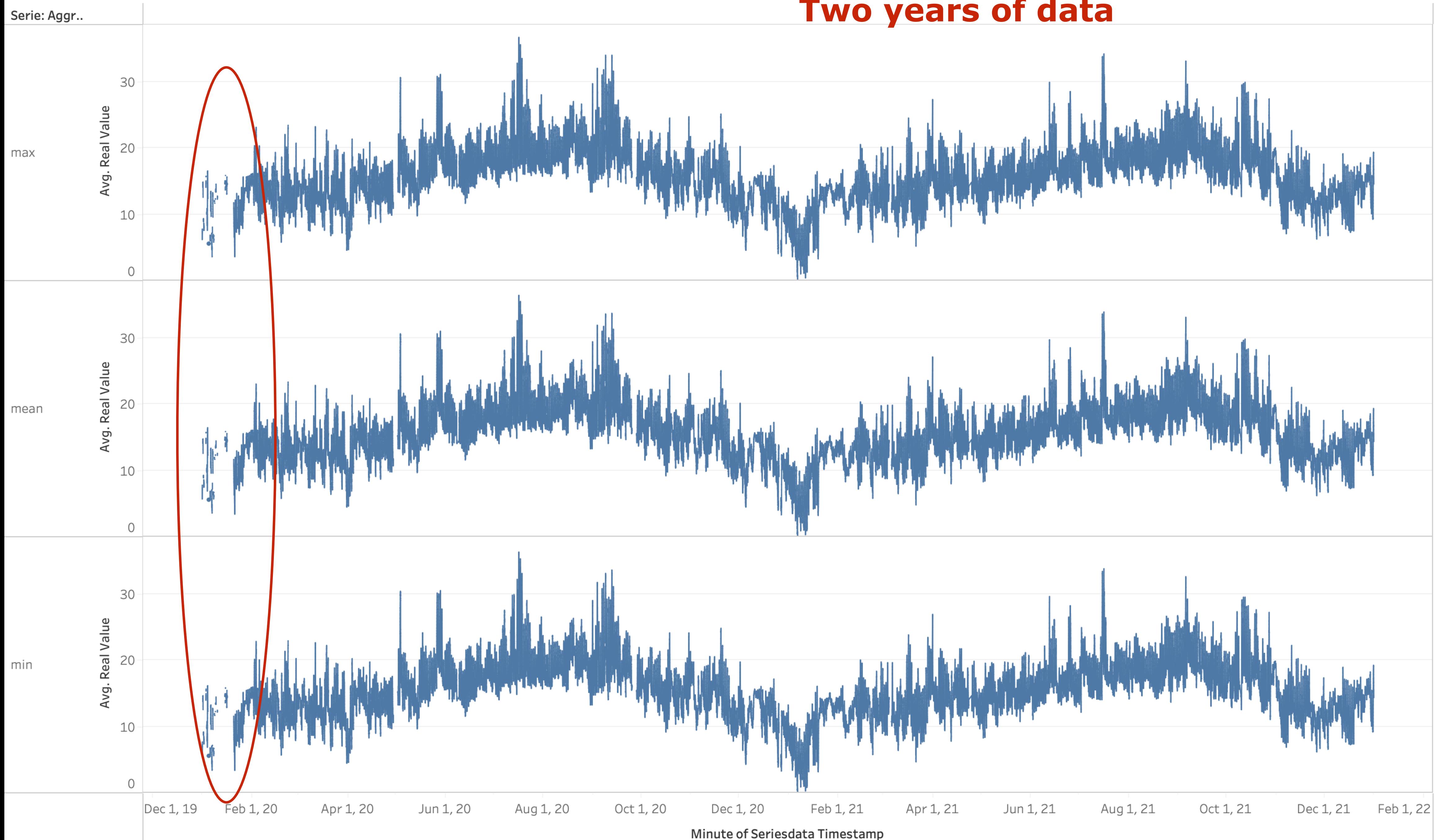
First View of Data Series of **air_temperature** from CABAzamb (APAS) - January 1, 2021, 12:00 AM to March 31, 2021, 11:45 PM



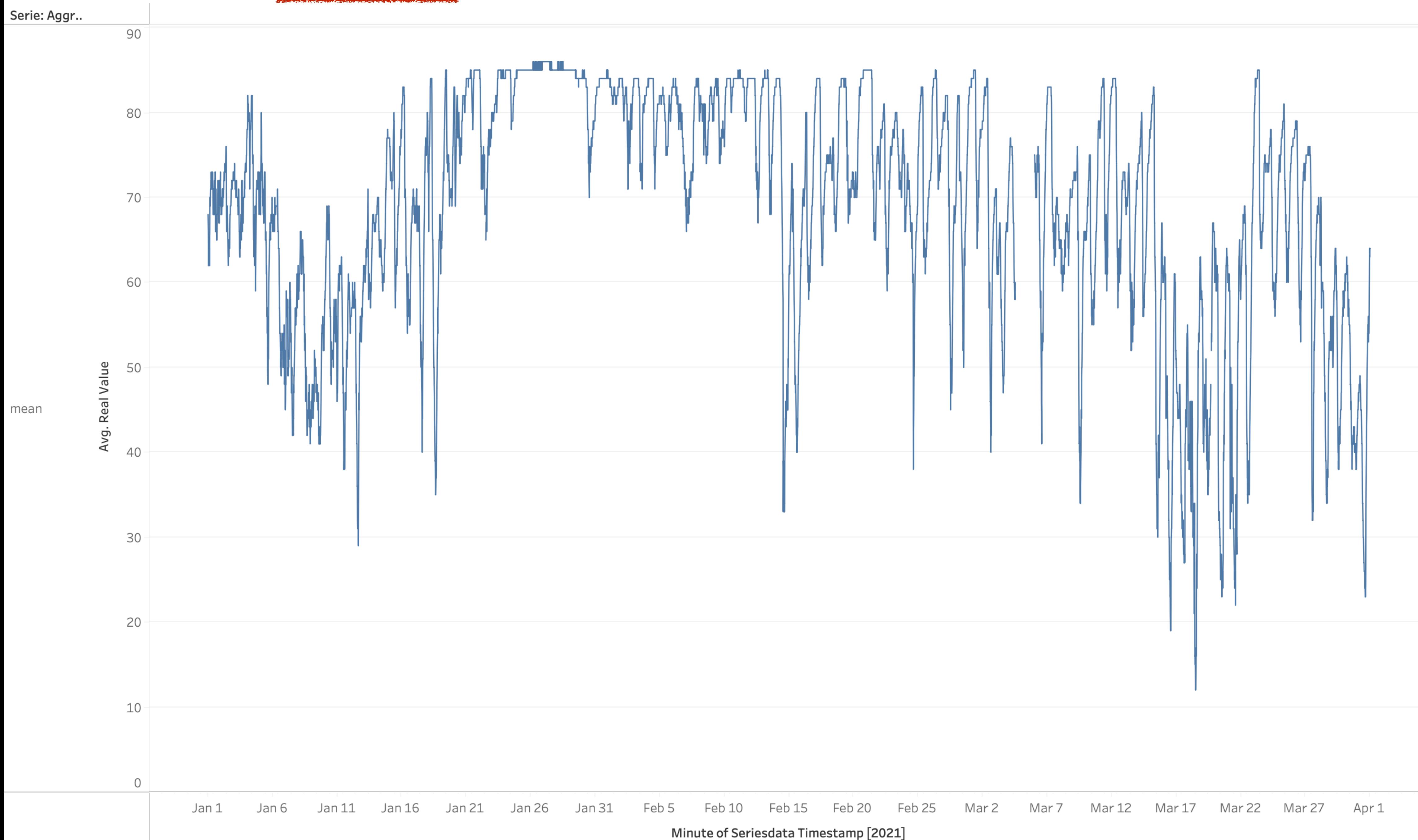
First View of Data Series of **air_temperature** from CABAzamb (APAS) - January 1, 2021, 12:00 AM to March 31, 2021, 11:45 PM

Serie: Aggr..



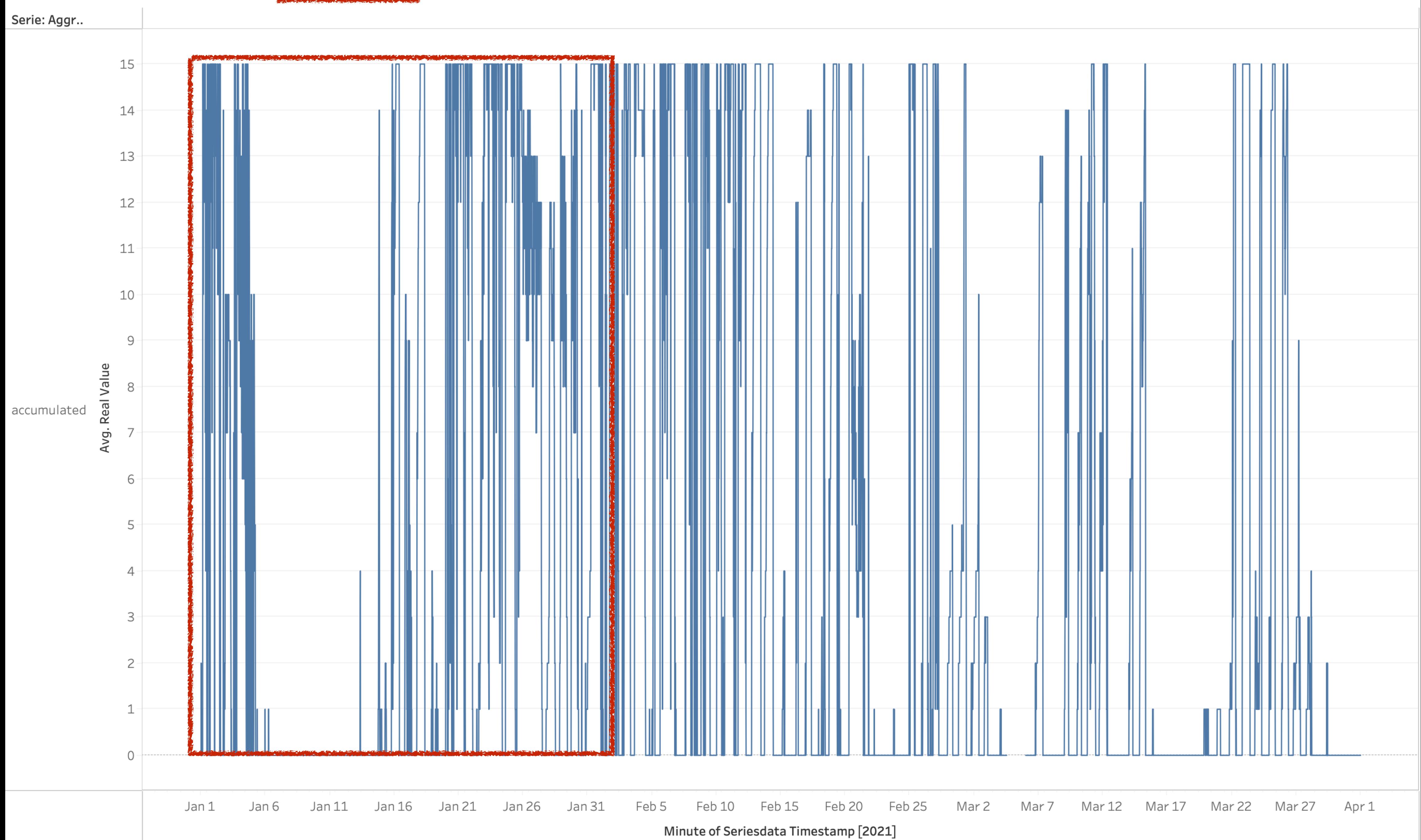
Two years of data

First View of Data Series of relative_humidity from CABAzamb (APAS) - January 1, 2021, 12:00 AM to March 31, 2021, 11:45 PM



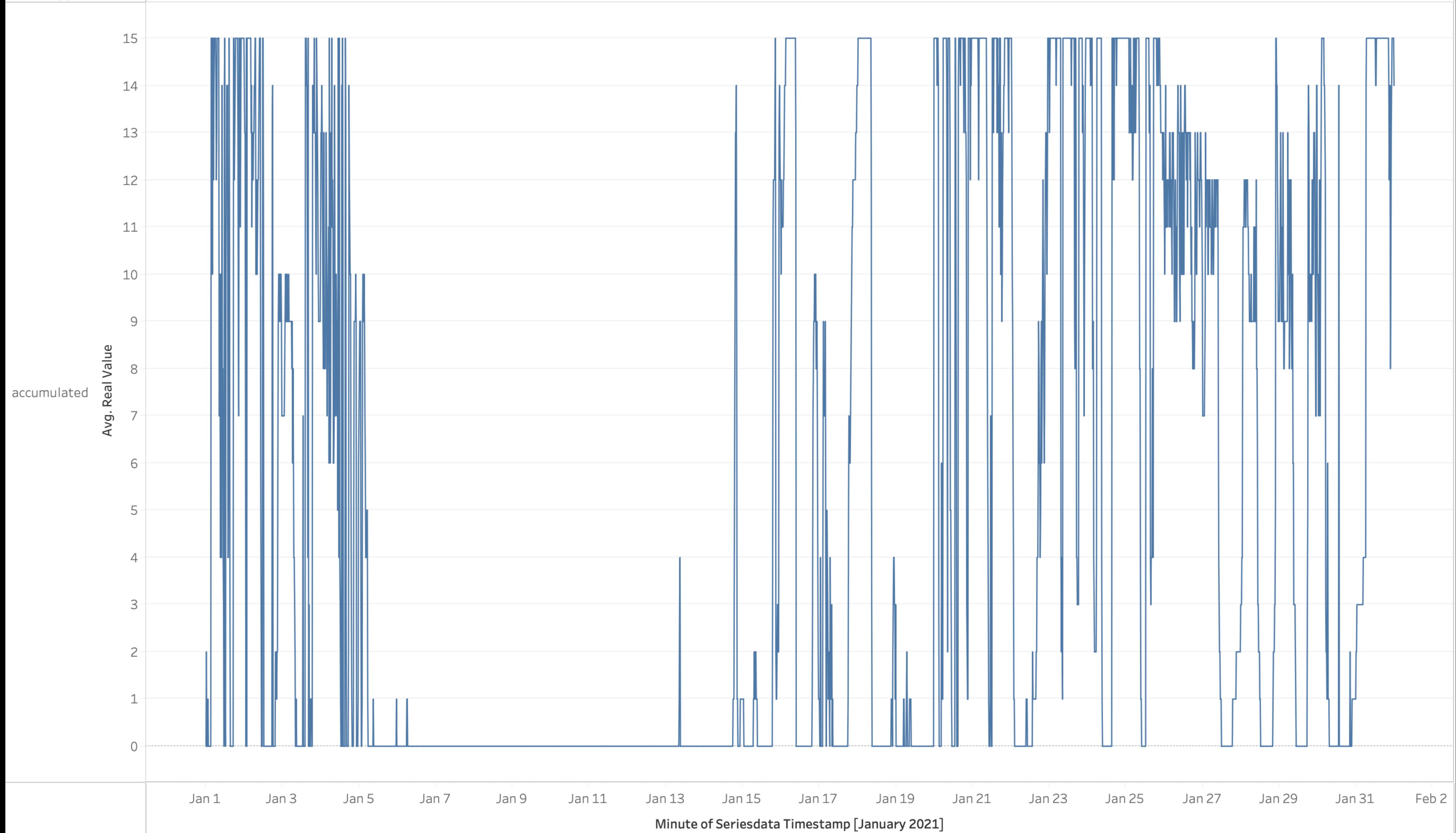
First View of Data Series of **leaf_wetness** from CABAzamb (APAS) - January 1, 2021, 12:00 AM to March 31, 2021, 11:45 PM

Serie: Aggr..

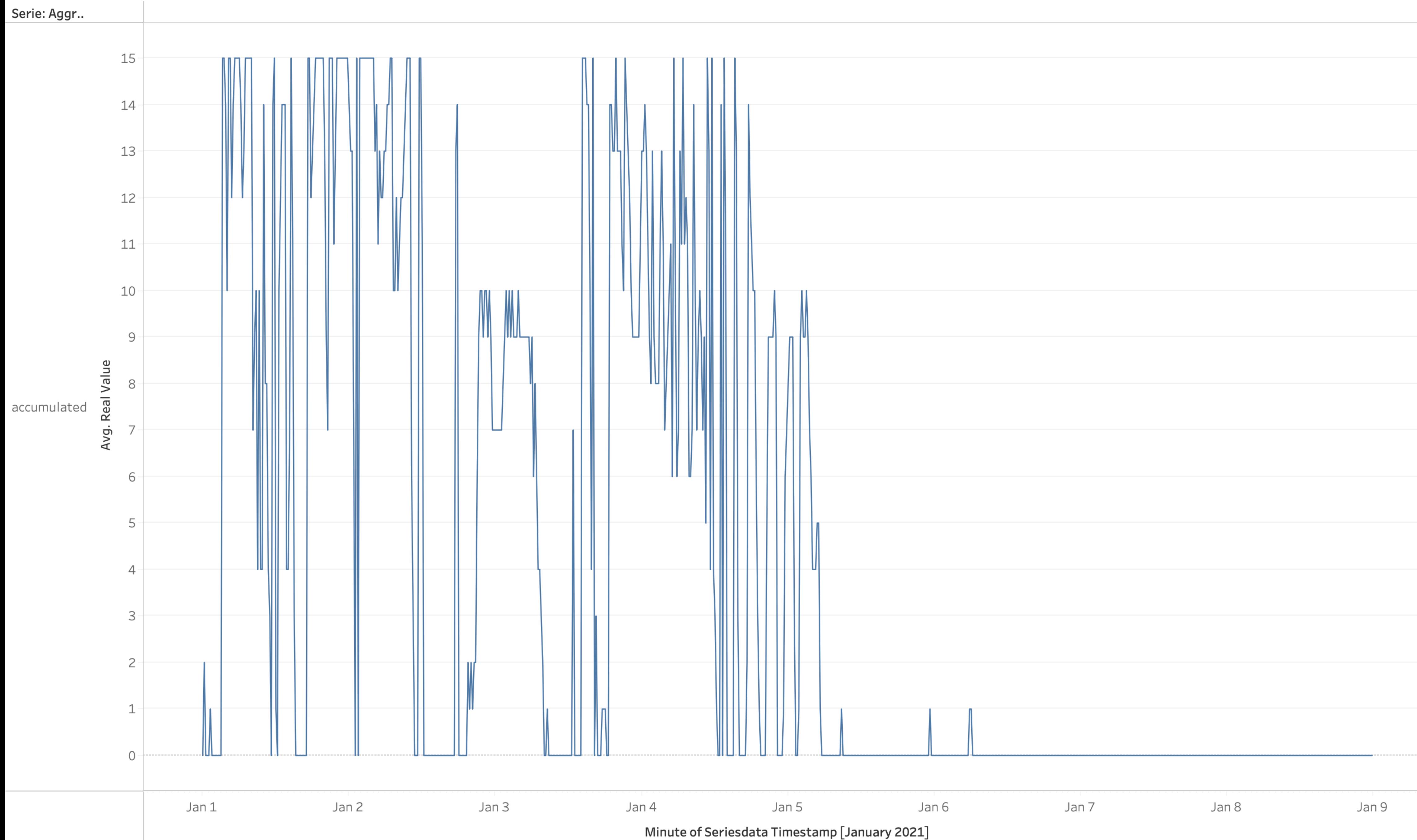


First View of Data Series of **leaf_wetness** from CABAzamb (APAS) - January 1, 2021, 12:00 AM to January 31, 2021, 11:45 PM

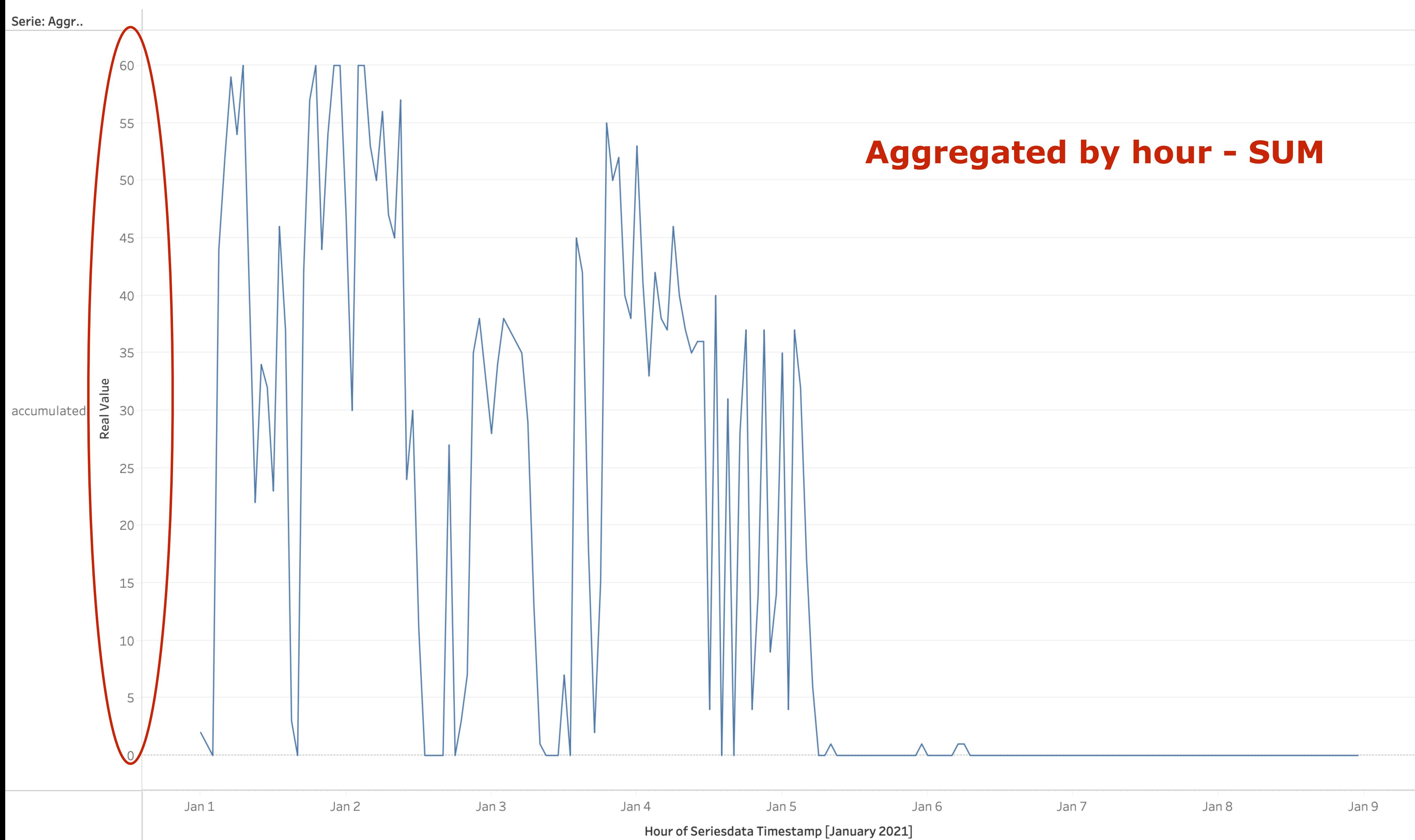
Serie: Aggr..



First View of Data Series of **leaf_wetness** from CABAzamb (APAS) - January 1, 2021, 12:00 AM to January 8, 2021, 11:45 PM



First View of Data Series of leaf_wetness from CABAzamb (APAS)



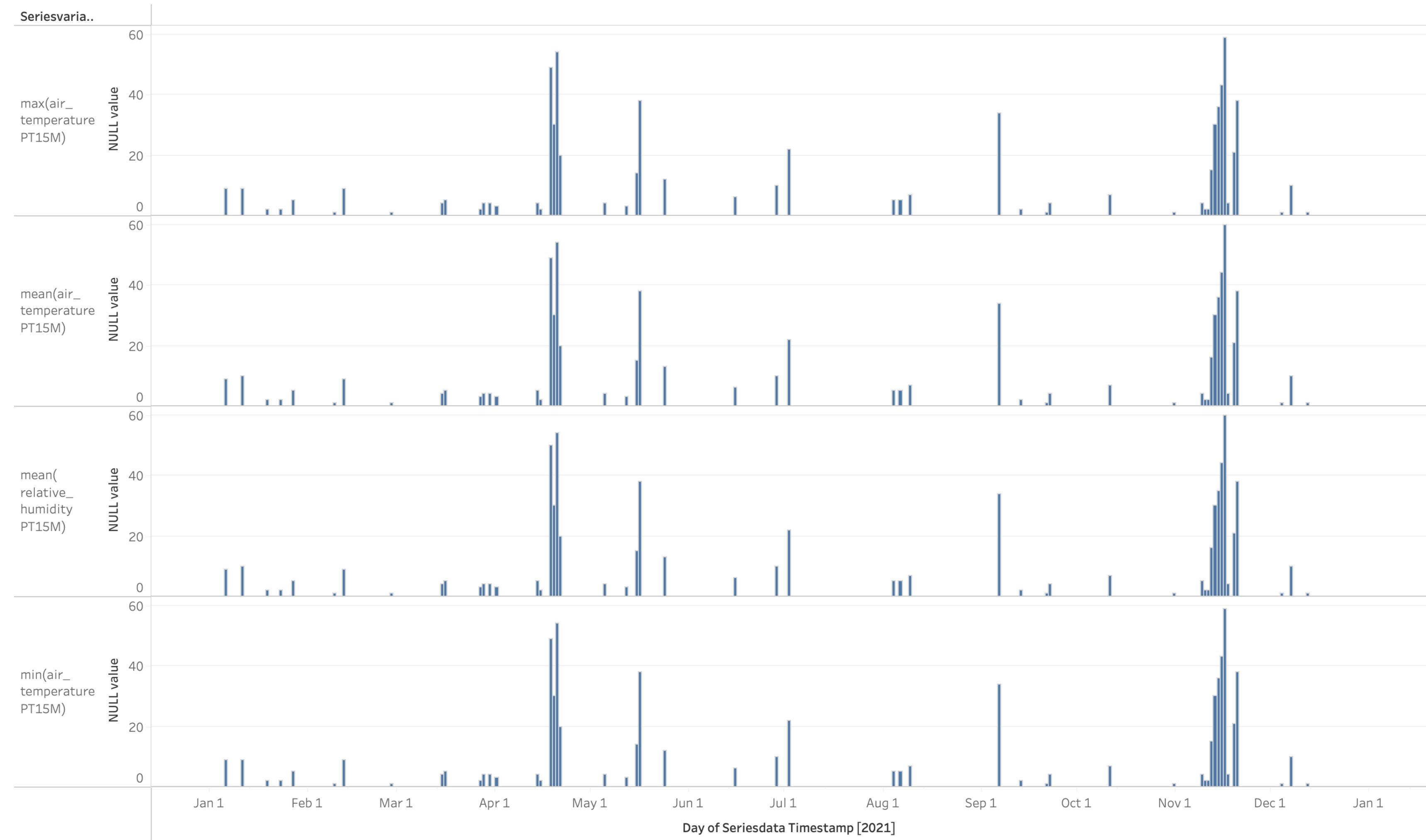
View of air_temperature aggregated using **mean** from all weather stations provided by APAS



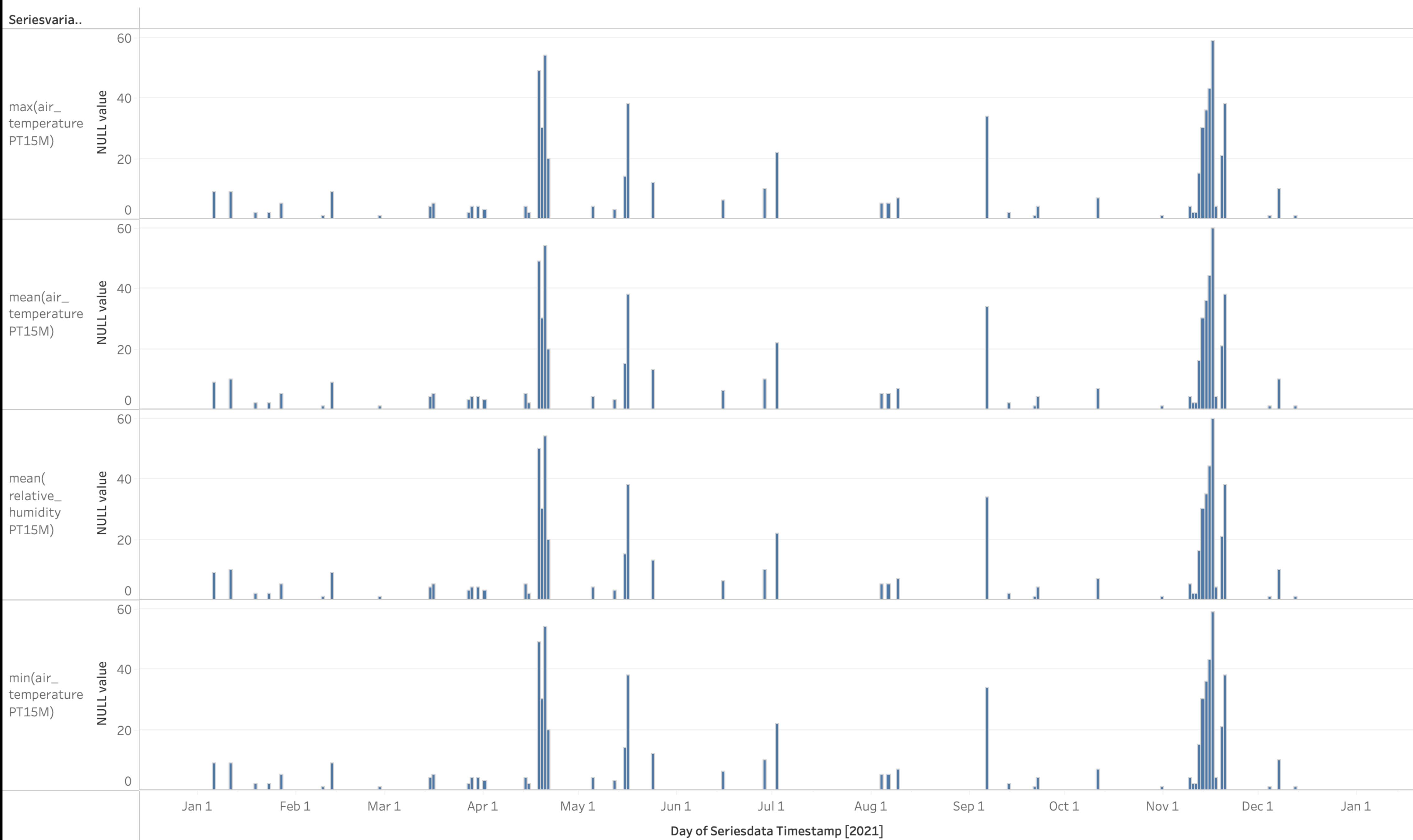
Null Values

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Evolution of Null Values by WS at Coopval01VV (APAS)

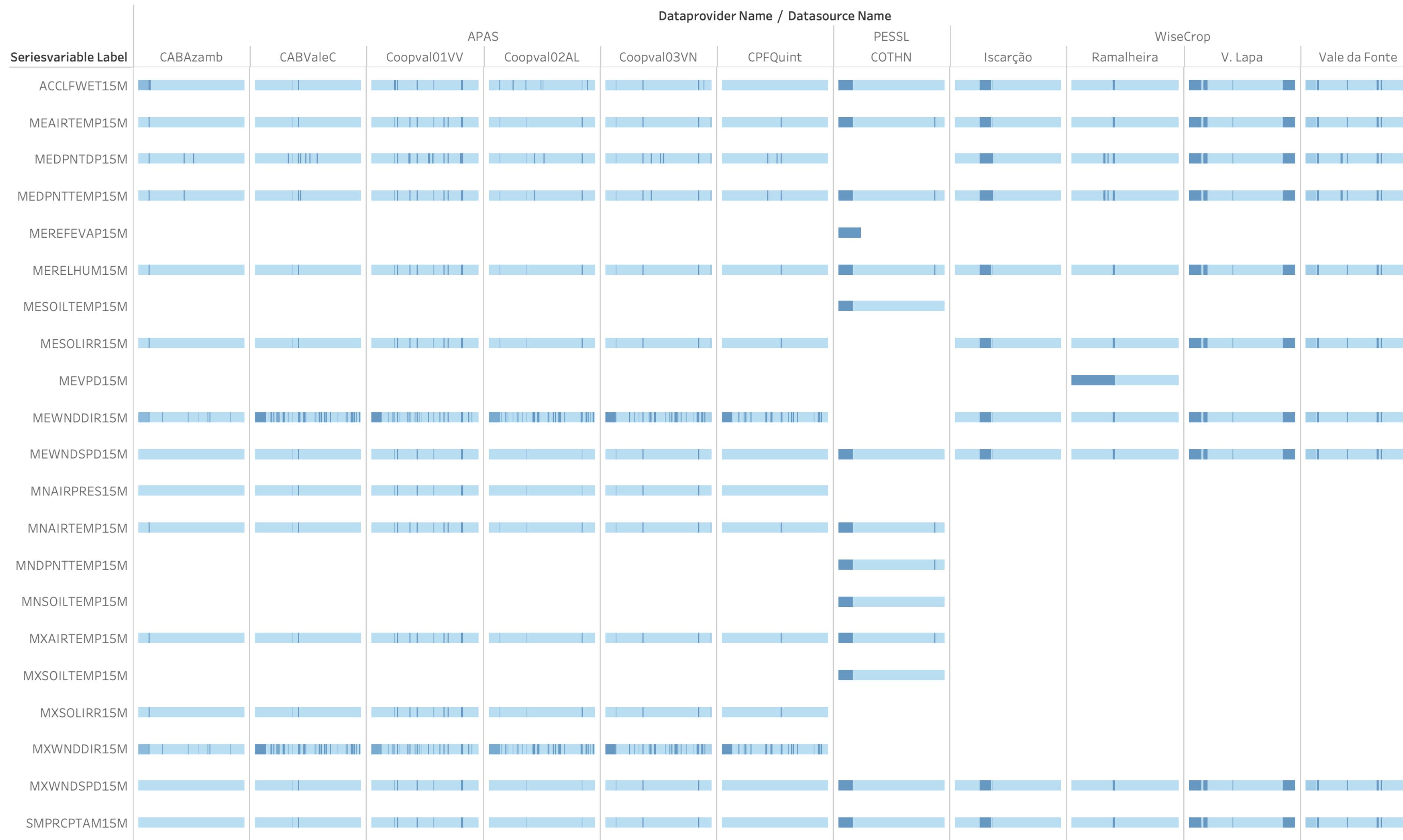


Evolution of Null Values by WS at Coopval01VV (APAS)

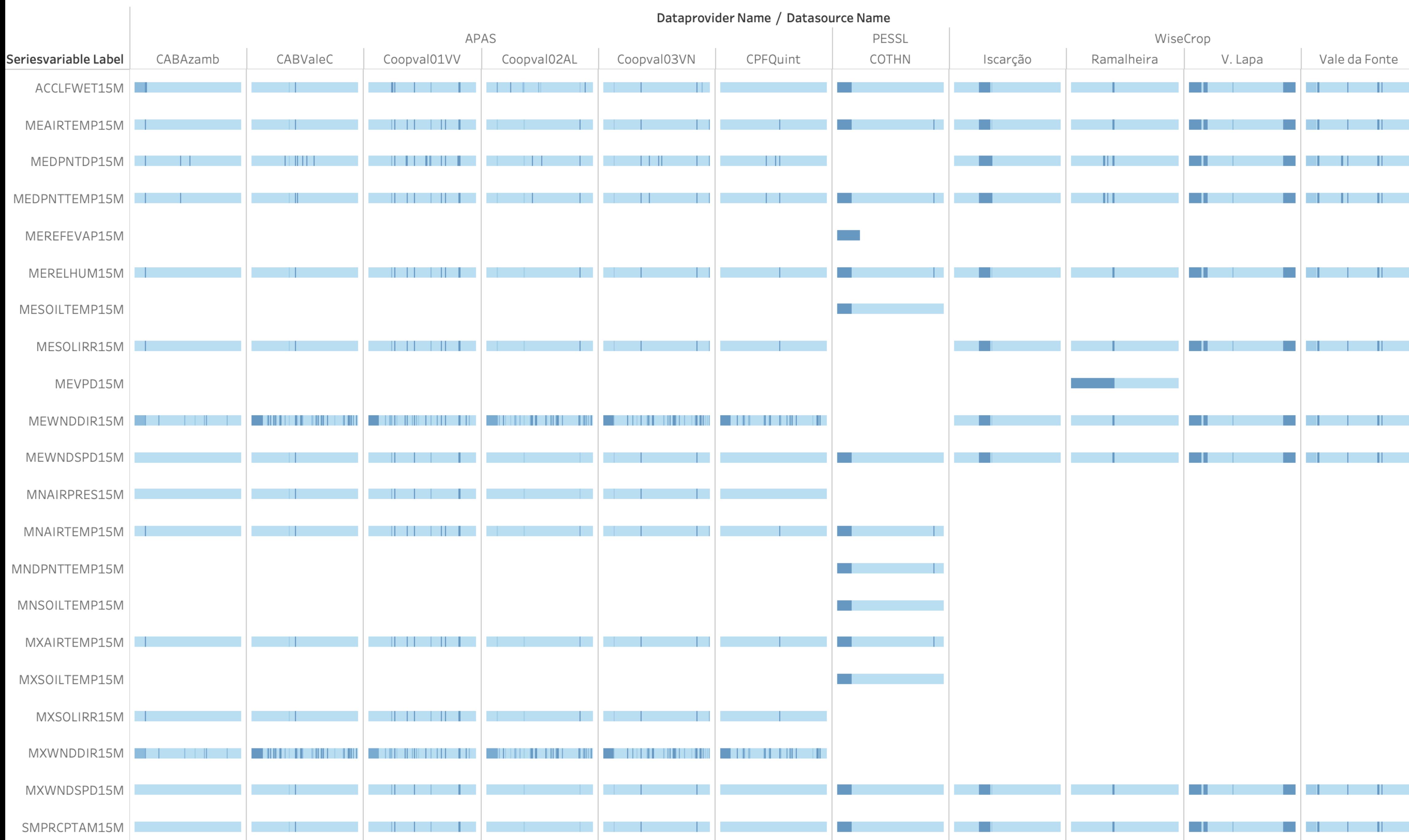


Null Values

Overview of NULLs

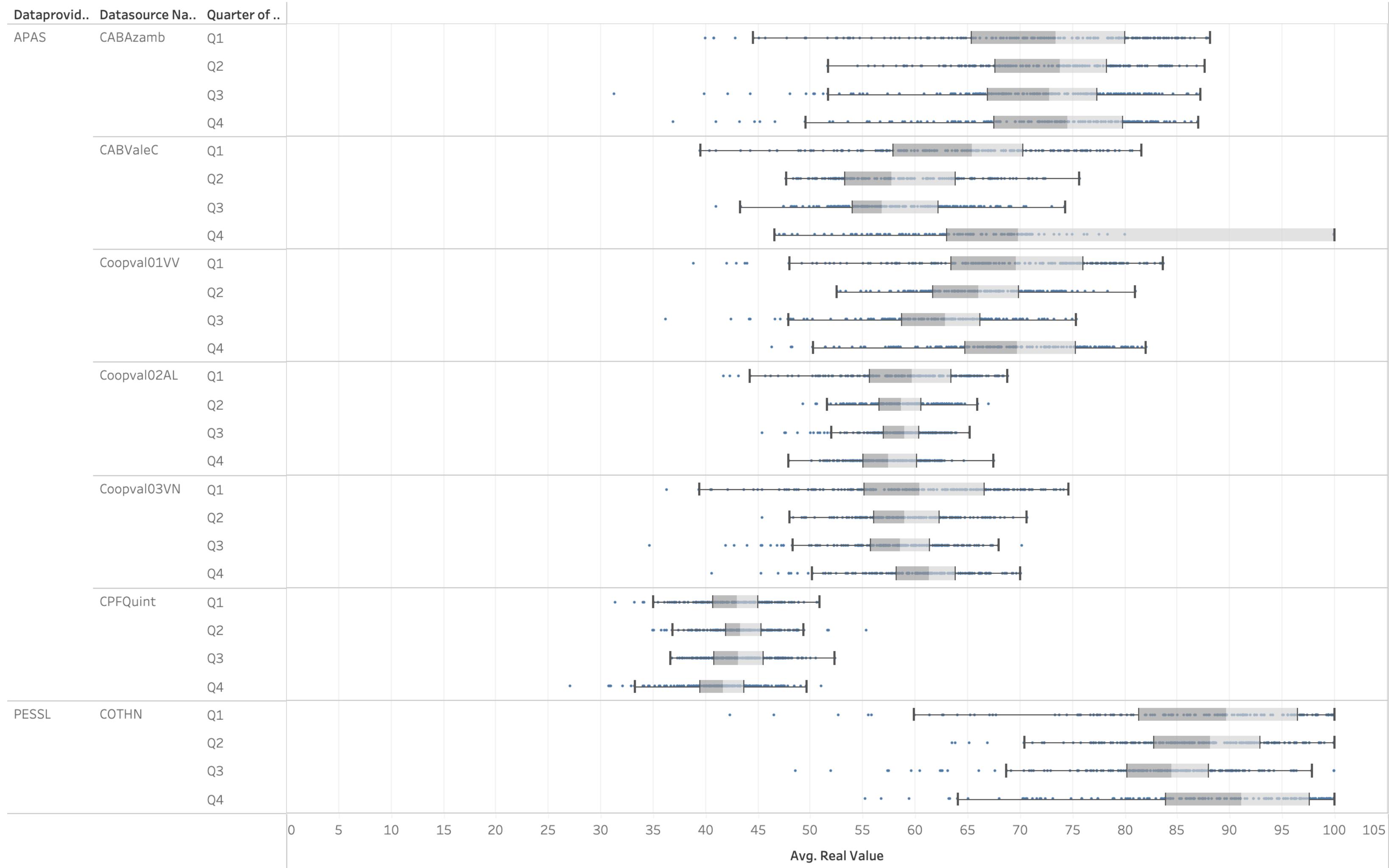


Overview of NULLs



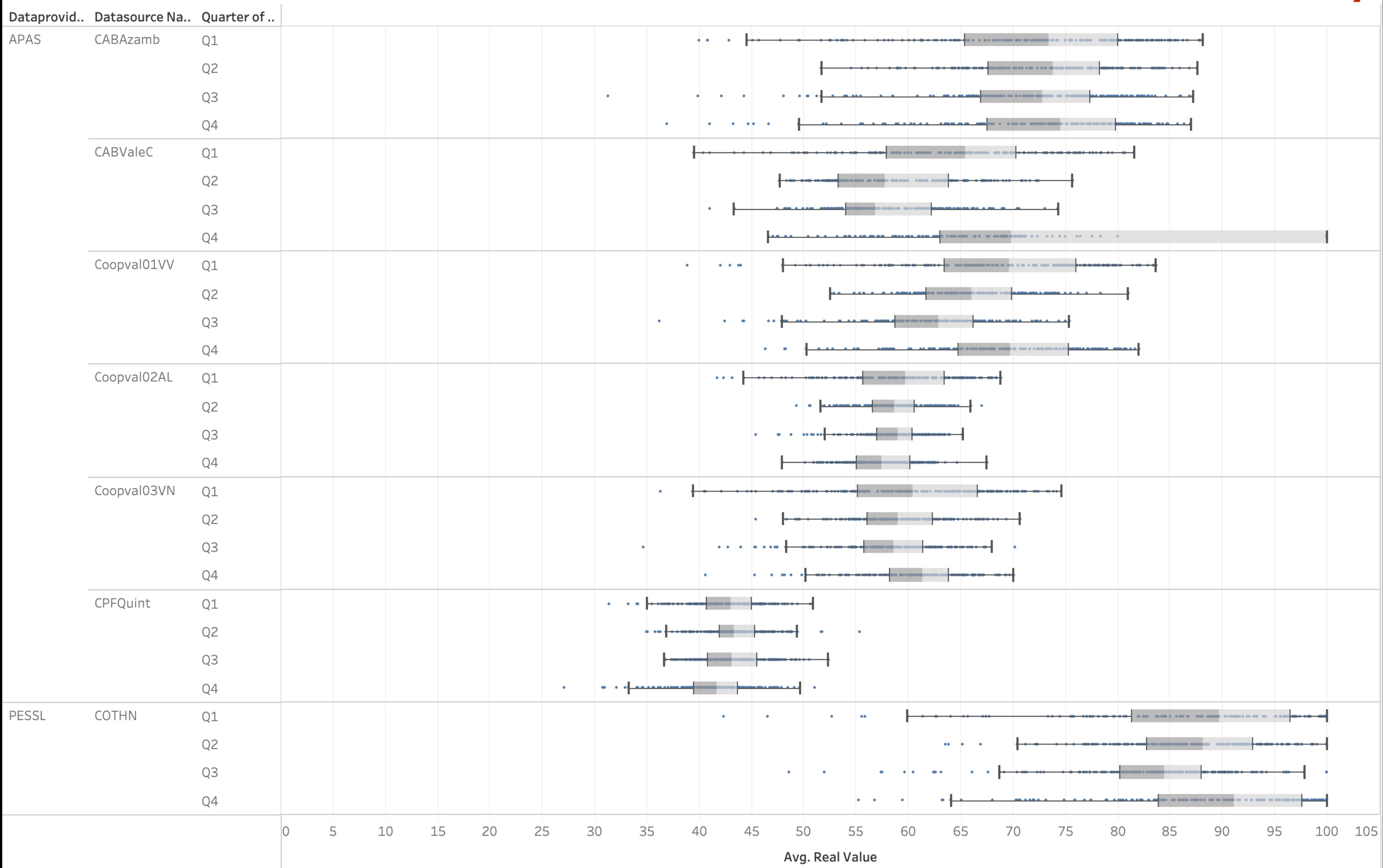
The values of different WS on quarters

Distribution by Quarters



Relative Humidity

Distribution by Quarters

Relative Humidity

Data Organization

Files

	datasources_Coordenadas.txt
	datasources.txt
	series.txt
	seriesdata_001.txt
	seriesdata_002.txt
	seriesdata_003.txt
	seriesdata_009.txt
	seriesdata_013.txt
	seriesdata_014.txt
	seriesdata_015.txt
	seriesdata_016.txt
	seriesdata_028.txt
	seriesdata_029.txt
	seriesdata_030.txt
	seriesdata_031.txt
	seriesdata_037.txt
	seriesdata_051.txt

30 Fields, 76 rows

14 Fields, 76 rows

31 Fields, 1269 rows

11 Fields, Big number of rows

Data sources

Meta-information about Data series

Data about Data Series Each Data Source

	seriesdata_001.txt	🕒 6 Nov 2022 at 21:59	77,4 MB	Plain Text
	seriesdata_002.txt	🕒 6 Nov 2022 at 21:59	76,3 MB	Plain Text
	seriesdata_003.txt	🕒 6 Nov 2022 at 21:59	76,7 MB	Plain Text
	seriesdata_009.txt	🕒 6 Nov 2022 at 21:59	54,6 MB	Plain Text
	seriesdata_013.txt	🕒 6 Nov 2022 at 21:59	78,4 MB	Plain Text
	seriesdata_014.txt	🕒 6 Nov 2022 at 21:59	79 MB	Plain Text
	seriesdata_015.txt	🕒 6 Nov 2022 at 21:59	77,8 MB	Plain Text
	seriesdata_016.txt	🕒 6 Nov 2022 at 21:59	71,7 MB	Plain Text
	seriesdata_028.txt	🕒 6 Nov 2022 at 21:59	49,5 MB	Plain Text
	seriesdata_029.txt	🕒 6 Nov 2022 at 21:59	47,3 MB	Plain Text
	seriesdata_030.txt	🕒 6 Nov 2022 at 21:59	43,4 MB	Plain Text
	seriesdata_031.txt	🕒 6 Nov 2022 at 21:59	48,7 MB	Plain Text
	seriesdata_037.txt	🕒 6 Nov 2022 at 21:59	9,8 MB	Plain Text
	seriesdata_051.txt	🕒 6 Nov 2022 at 21:59	5,2 MB	Plain Text



Data Processing

■ Part 1:

- ◆ Join "datasources_Coordenadas" and "datasources" and simplify it with only the necessary columns
- ◆ Simplify the "series" with only the necessary columns
- ◆ Join both from the previous steps in a single file and "SourcesAndSeries"

■ Part 2

- ◆ Simplify each one of the files "seriesdata_xxx.txt" with only the necessary columns
- ◆ Union

■ Part 3

- ◆ E D A