Quick instructions for testing the ContDataSumViz Shiny app

https://contdatasumvizcontainerized-humble-sitatunga-bs.app.cloud.gov/

VA DEQ stream data (12/28/22)

Formatting the input file

You'll need to 'trim' your aggregated file
Remove the flag and comment fields for each individual QC test
Watch out for Excel adding commas into fields you remove (see next slide)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	SiteID	Date	Time	Date.Time	Water.Ten	Air.Logger	Air.RowID	Air.Temp.(	Water.Log	Water.Rov	Discrete.W	Logger.De	Flag.Date.T	Flag.Wate	Flag.Air.Te	Flag.Discre	Month	Day	Year	MonthD
2	Hunting	2014-04-22	11:00:00	2014-04-22 11:00	NA	10302589	1	21.963	10302588	1	NA	start		X	P		4	22	2014	4
3	Hunting	2014-04-22	11:30:00	2014-04-22 11:30	NA	10302589	2	21.843	10302588	2	NA	NA		X	P		4	22	2014	4
4	Hunting	2014-04-22	12:00:00	2014-04-22 12:00	11.078	10302589	3	NA	10302588	3	NA	NA		P	X		4	22	2014	4
5	Hunting	2014-04-22	12:30:00	2014-04-22 12:30	11.151	10302589	4	NA	10302588	4	11	NA		P	X		4	22	2014	4
6	Hunting	2014-04-22	13:00:00	2014-04-22 13:00	11.321	10302589	5	NA	10302588	5	NA	NA		P	X		4	22	2014	4
7	Hunting	2014-04-22	13:30:00	2014-04-22 13:30	11.394	10302589	6	22.92	10302588	6	NA	NA		P	P		4	22	2014	4
8	Hunting	2014-04-22	14:00:00	2014-04-22 14:00	11.492	10302589	7	21.39	10302588	7	NA	NA		P	P		4	22	2014	4
9	Hunting	2014-04-22	14:30:00	2014-04-22 14:30	11.637	10302589	8	22.274	10302588	8	NA	NA		P	P		4	22	2014	4
10	Hunting	2014-04-22	15:00:00	2014-04-22 15:00	11.904	10302589	9	23.328	10302588	9	NA	NA		P	P		4	22	2014	4
11	Hunting	2014-04-22	15:30:00	2014-04-22 15:30	12.098	10302589	10	23.641	10302588	10	NA	NA		P	P		4	22	2014	4
12	Hunting	2014-04-22	16:00:00	2014-04-22 16:00	12.122	10302589	11	22.633	10302588	11	NA	NA		P	P		4	22	2014	4
13	Hunting	2014-04-22	16:30:00	2014-04-22 16:30	12.05	10302589	12	21.987	10302588	12	NA	NA		P	P		4	22	2014	4
14	Hunting	2014-04-22	17:00:00	2014-04-22 17:00	12.025	10302589	13	21.843	10302588	13	NA	NA		P	P		4	22	2014	4
15	Hunting	2014-04-22	17:30:00	2014-04-22 17:30	12.001	10302589	14	22.034	10302588	14	NA	NA		P	P		4	22	2014	4
16	Hunting	2014-04-22	18:00:00	2014-04-22 18:00	11.953	10302589	15	21.581	10302588	15	NA	NA		P	P		4	22	2014	4

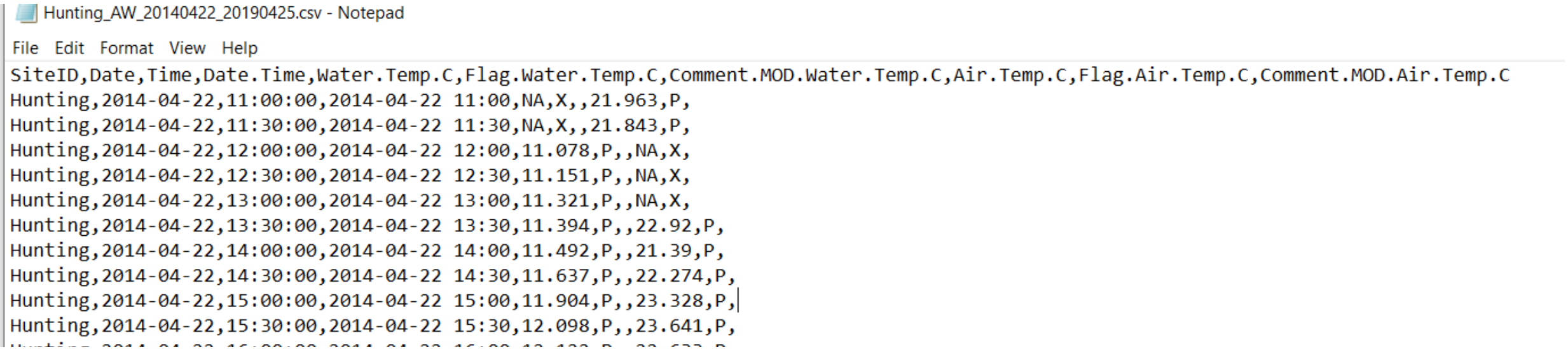
Keep the fields shown in the test files I sent. Your streamlined file should be ready to go…

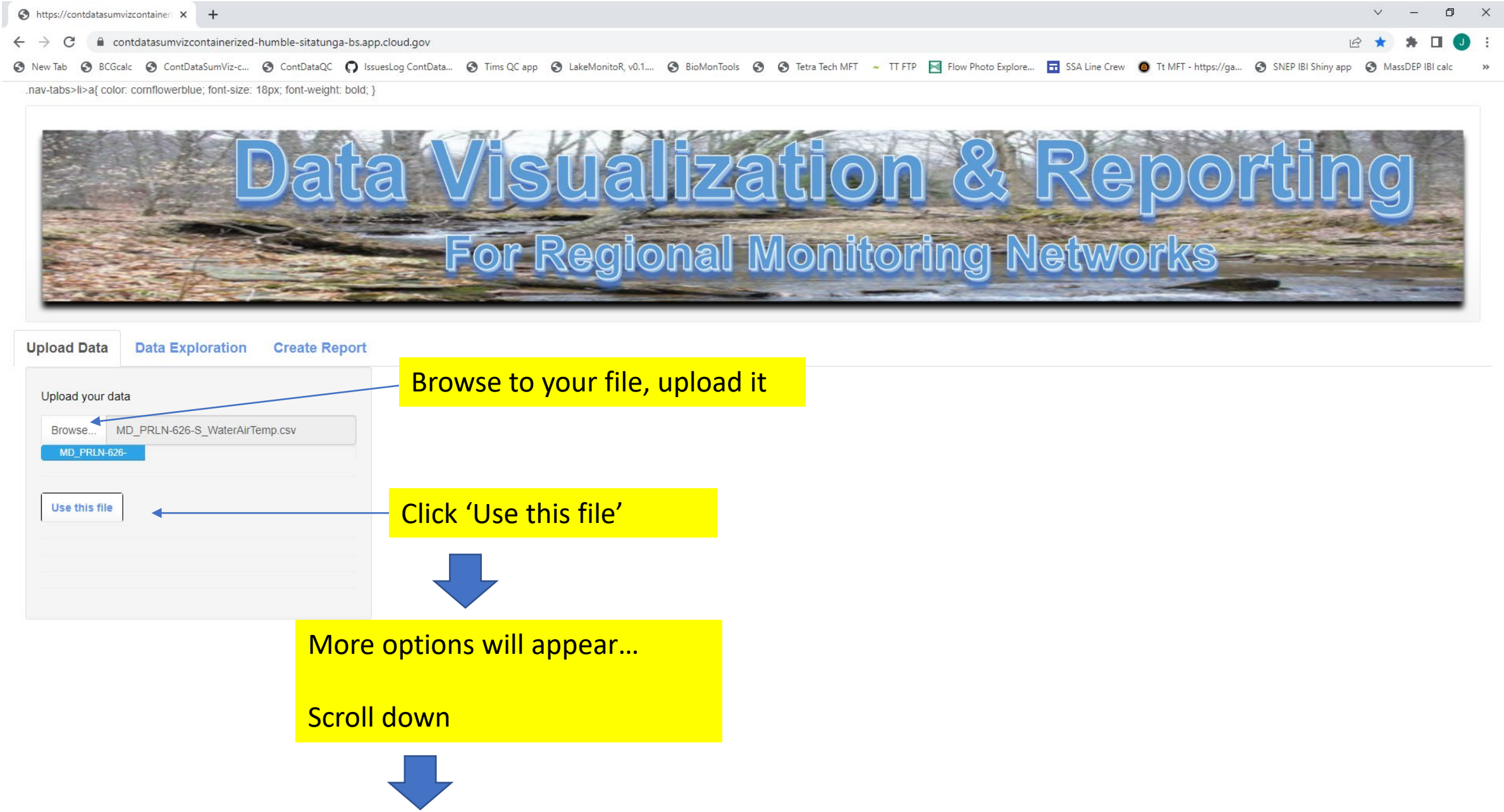
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	SiteID	Date	Time	Date.Time	Water.Temp.C	Air.Temp.C	Flag.Water.Temp.C	Flag.Air.Temp.C	Comment.MOD.Water.Temp.C	Comment.MOD.Air.Temp.C					
2	Hunting	2014-04-22	11:00:00	2014-04-22 11:00	NA	21.963	X	P							
3	Hunting	2014-04-22	11:30:00	2014-04-22 11:30	NA	21.843	X	P							
4	Hunting	2014-04-22	12:00:00	2014-04-22 12:00	11.078	NA	P	X							
5	Hunting	2014-04-22	12:30:00	2014-04-22 12:30	11.151	NA	P	X							
6	Hunting	2014-04-22	13:00:00	2014-04-22 13:00	11.321	NA	P	X							

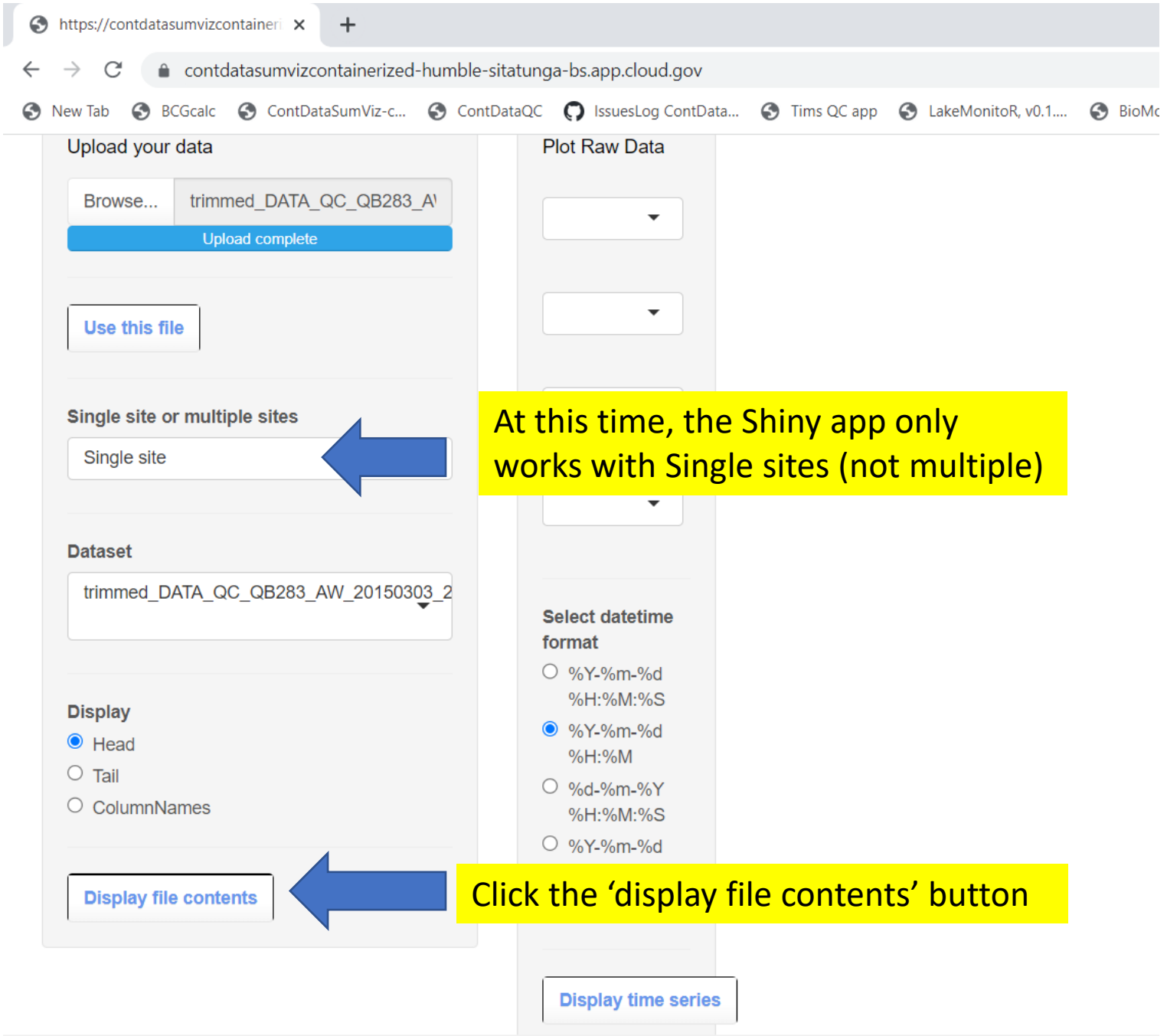
When I ‘trim’ the files, sometimes I run into problems with commas being added into columns.

You can check for this by opening the file in Notepad (see below)

I’m sure there are better ways to avoid or deal with this, but I’ve had luck saving the trimmed file (with removed columns) as an Excel file before saving it as a CSV (but even then, I still have problems on occasion)




https://contdatasumvizcontainer
contdatasumvizcontainerized-humble-sitatunga-bs.app.cloud.gov
New Tab
BCGcalc
ContDataSumViz-c...
ContDataQC
IssuesLog ContData...
Tims QC app
LakeMonitoR, v0.1....
BioMonTools
Tetra Tech MFT
TT FTP
Flow Photo Explore...
SSA Line Crew
Tt MFT - https://ga...
SNEP IBI Shiny app
MassDEP IBI calc
.nav-tabs>li>a{ color: cornflowerblue; font-size: 18px; font-weight: bold; }
Data Visualization & Reporting
For Regional Monitoring Networks
Upload Data
Data Exploration
Create Report
Upload your data
Browse...
MD_PRLN-626-S_WaterAirTemp.csv
MD_PRLN-626-
Use this file
Browse to your file, upload it
Click 'Use this file'
More options will appear…
Scroll down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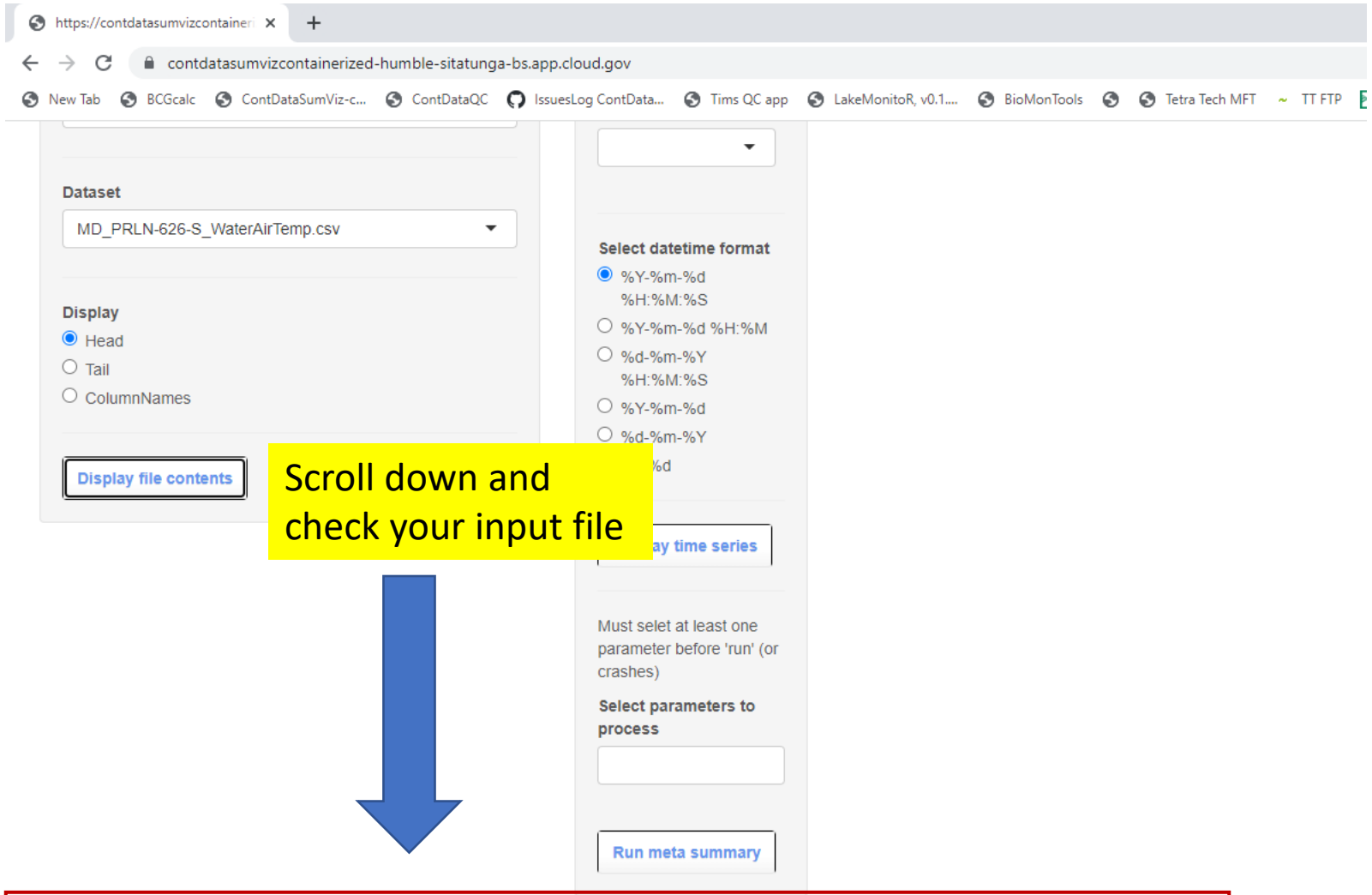
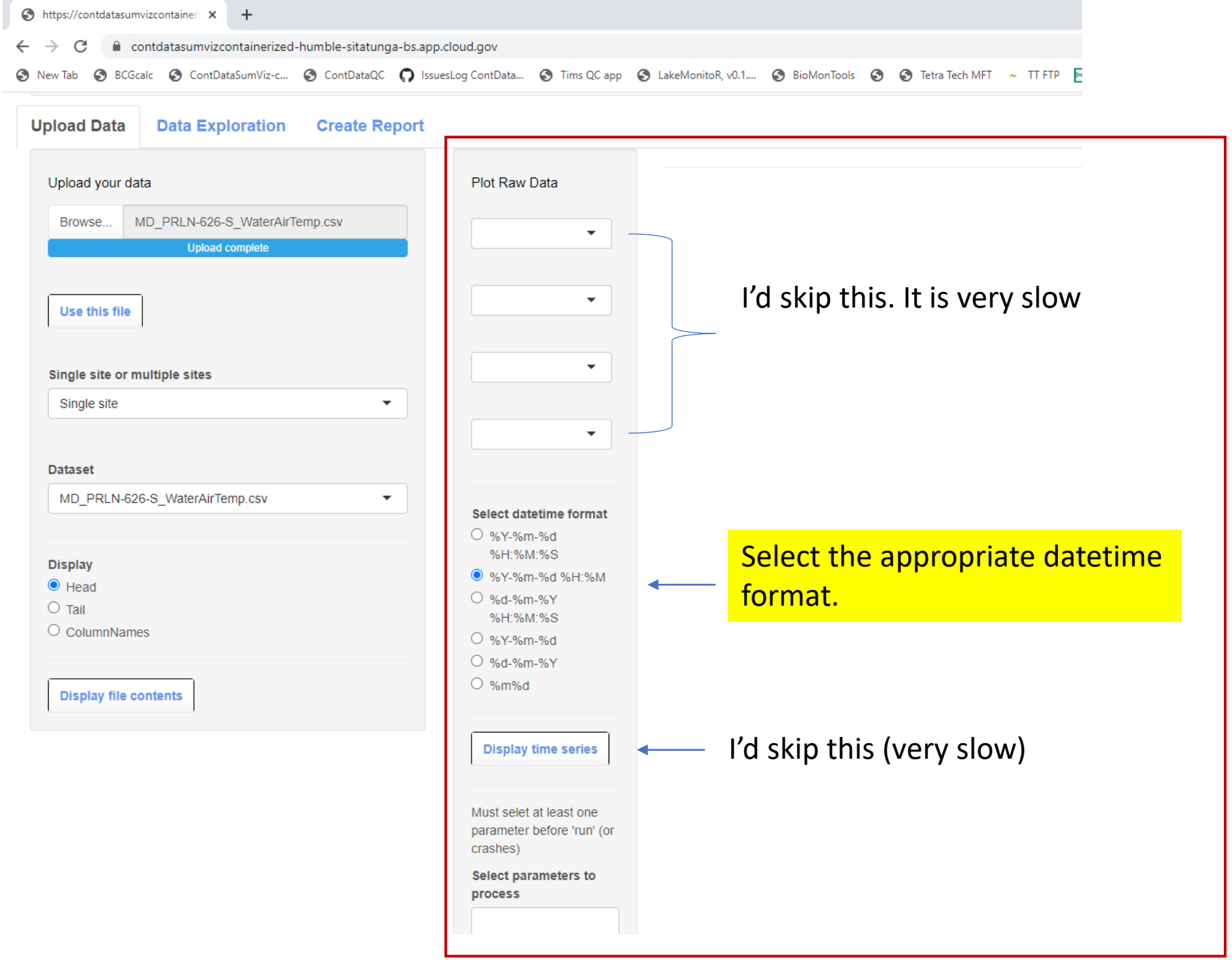
New Tab
BCGcalc
ContDataSumViz-c...
ContDataQC
IssuesLog ContData...
Tims QC app
LakeMonitoR, v0.1....
BioMc
Upload your data
Browse...
trimmed_DATA_QC_QB283_A
Upload complete
Use this file
Single site or multiple sites
Single site
Dataset
trimmed_DATA_QC_QB283_AW_20150303_2
Display
Head
Tail
ColumnNames
Display file contents
Plot Raw Data
Select datetime format
%Y-%m-%d %H:%M:%S
%Y-%m-%d %H:%M
%d-%m-%Y %H:%M:%S
%Y-%m-%d
Display time series
At this time, the Shiny app only works with Single sites (not multiple)
Click the 'display file contents' button



SITEYR	DATE	TIME	WATER_TEMP_C	AIR_TEMP_C	YEAR	SITEID	DATE.TIME	MONTHDAY
PRLN-626-S-2000	2000-06-01	0:20:00	13.01	NA	2000	PRLN-626-S	2000-06-01 0:20	01-Jun
PRLN-626-S-2000	2000-06-01	0:40:00	13.01	NA	2000	PRLN-626-S	2000-06-01 0:40	01-Jun
PRLN-626-S-2000	2000-06-01	1:00:00	13.01	NA	2000	PRLN-626-S	2000-06-01 1:00	01-Jun
PRLN-626-S-2000	2000-06-01	1:20:00	13.01	NA	2000	PRLN-626-S	2000-06-01 1:20	01-Jun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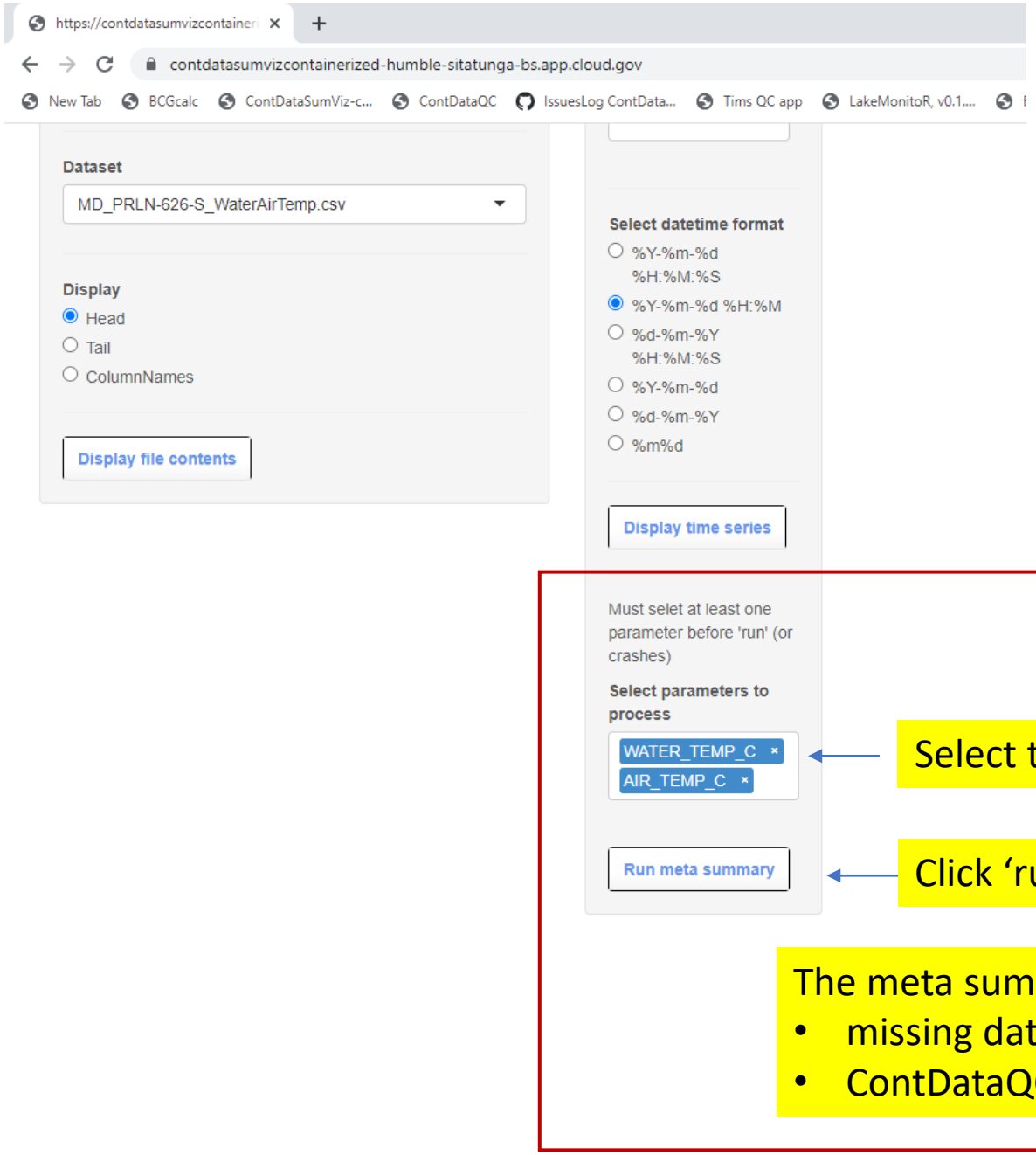
ContDataQC
IssuesLog ContData...
Tims QC app
LakeMonitoR, v0.1....
BioMonTools
Tetra Tech MFT
TT FTP
Upload Data
Data Exploration
Create Report
Upload your data
Browse...
MD_PRLN-626-S_WaterAirTemp.csv
Upload complete
Use this file
Single site or multiple sites
Single site
Dataset
MD_PRLN-626-S_WaterAirTemp.csv
Display
Head
Tail
ColumnNames
Display file contents
Plot Raw Data
Select datetime format
%Y-%m-%d %H:%M:%S
%Y-%m-%d %H:%M
%d-%m-%Y %H:%M:%S
%Y-%m-%d
%d-%m-%Y
%m%d
Display time series
Must selet at least one parameter before 'run' (or crashes)
Select parameters to process
I'd skip this. It is very slow
Select the appropriate datetime format.
I'd skip this (very slow)



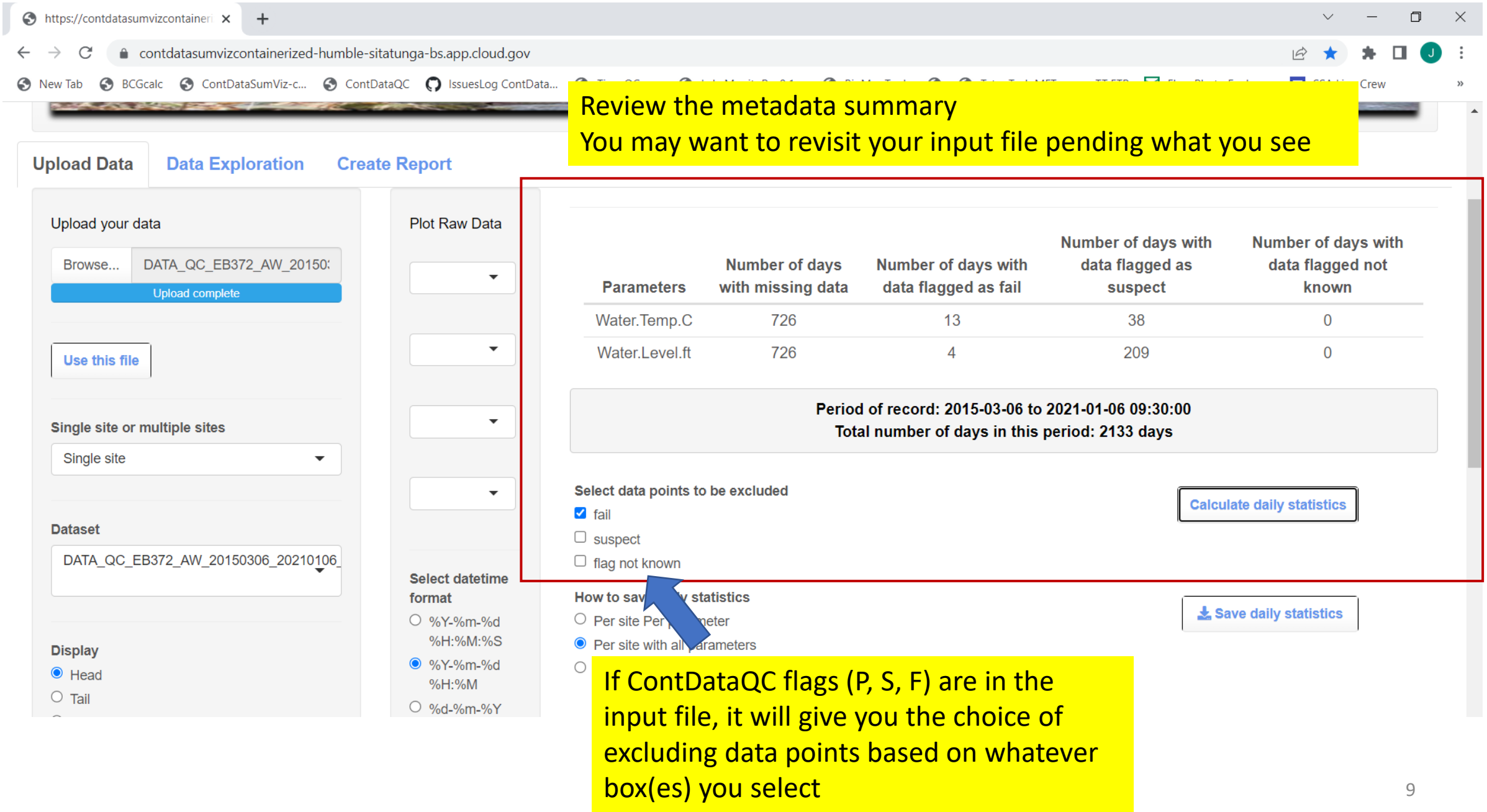
Select the parameters

Click ‘run meta summary’

The meta summary will report on

- missing data
- ContDataQC flags (P, S, F)

If you have different data qualifiers or flags, it’s fine to leave them in - the Shiny app ignores them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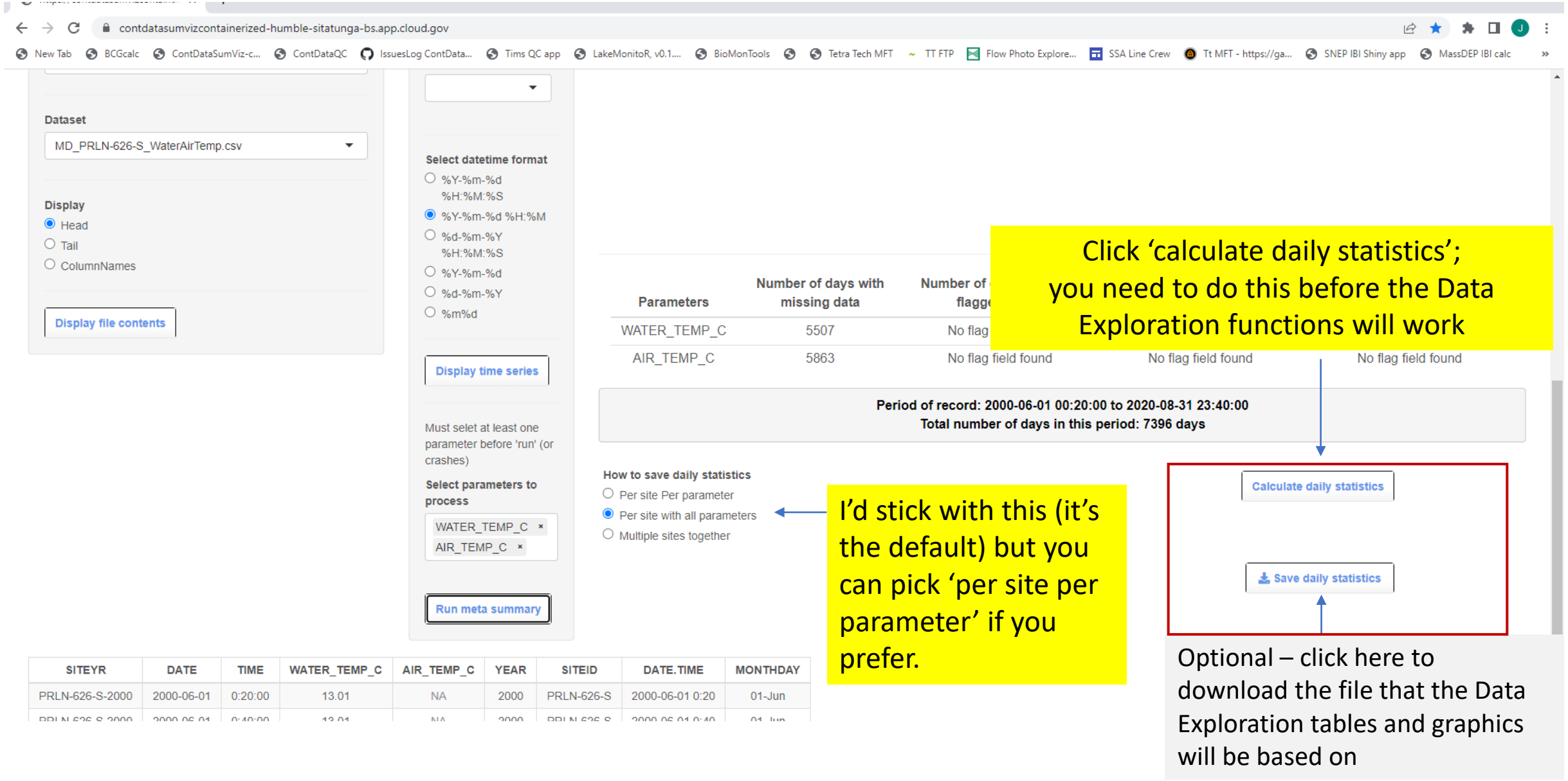
New Tab
BCGcalc
ContDataSumViz-c...
ContDataQC
IssuesLog ContData...
Review the metadata summary
You may want to revisit your input file pending what you see
Upload Data
Data Exploration
Create Report
Upload your data
Browse...
DATA_QC_EB372_AW_20150
Upload complete
Use this file
Single site or multiple sites
Single site
Dataset
DATA_QC_EB372_AW_20150306_20210106_
Display
Head
Tail
Plot Raw Data
Select datetime format
%Y-%m-%d %H:%M:%S
%Y-%m-%d %H:%M
%d-%m-%Y
Parameters
Number of days with missing data
Number of days with data flagged as fail
Number of days with data flagged as suspect
Number of days with data flagged not known
Water.Temp.C 726 13 38 0
Water.Level.ft 726 4 209 0
Period of record: 2015-03-06 to 2021-01-06 09:30:00
Total number of days in this period: 2133 days
Select data points to be excluded
fail
suspect
flag not known
Calculate daily statistics
How to save daily statistics
Per site with all parameters
Save daily statistics
If ContDataQC flags (P, S, F) are in the input file, it will give you the choice of excluding data points based on whatever box(es) you select

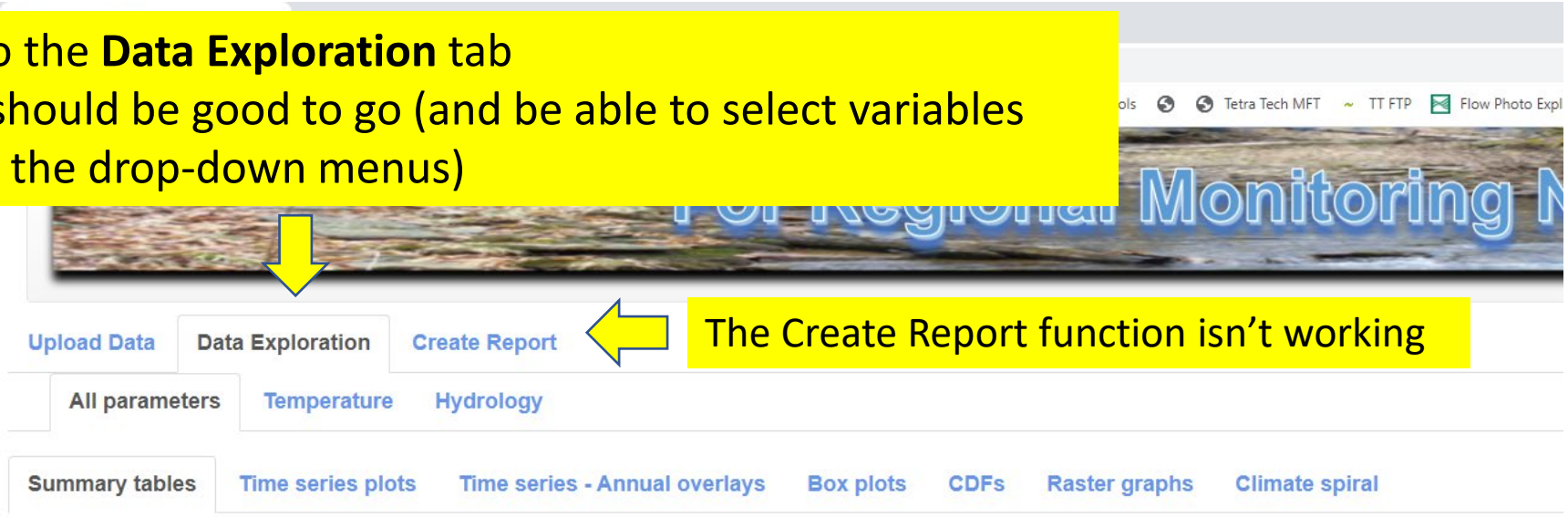


Click 'calculate daily statistics'; you need to do this before the Data Exploration functions will work

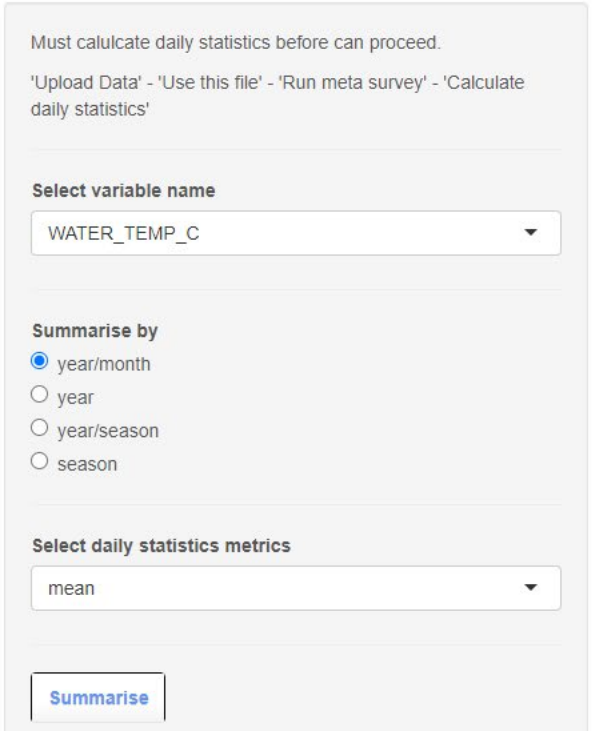
I'd stick with this (it's the default) but you can pick 'per site per parameter' if you prefer.

Optional – click here to download the file that the Data Exploration tables and graphics will be based on

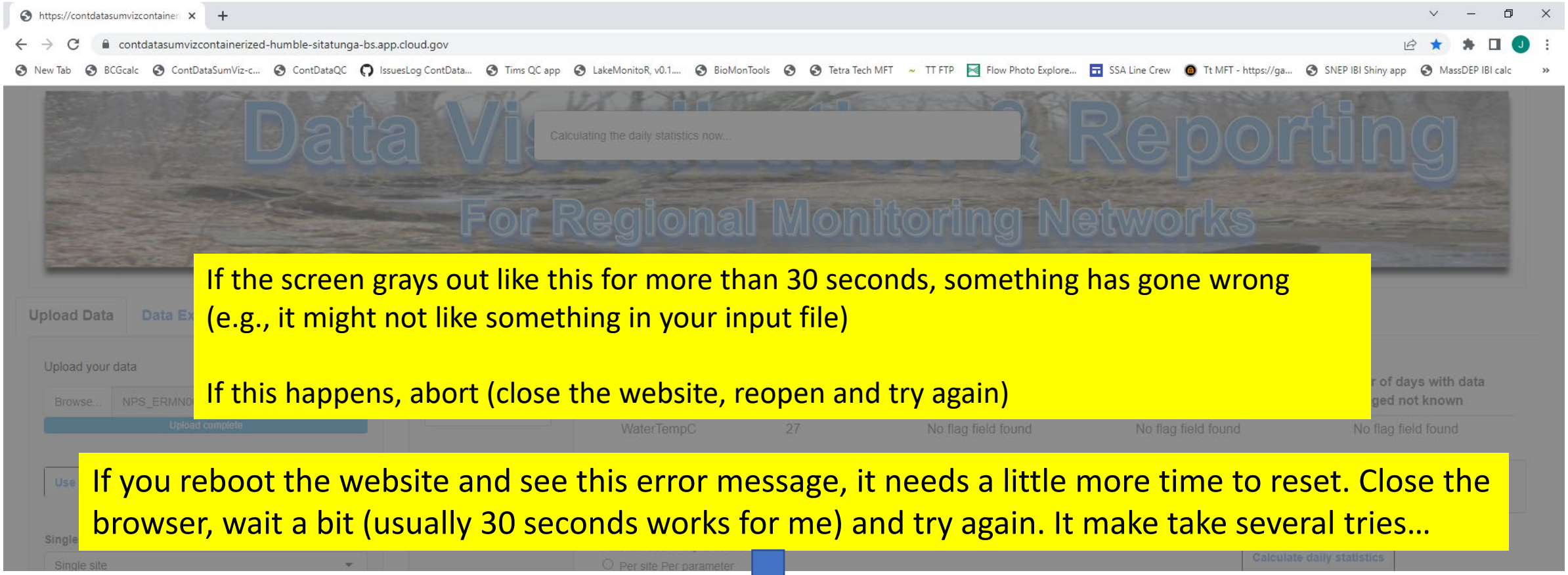
Go to the **Data Exploration** tab
you should be good to go (and be able to select variables from the drop-down menus)



The Create Report function isn't working



I'll send the link to the Dec 16 webinar recording in case you want to view that for a refresher on the various Data Exploration tabs (go to minute 0:26; it's about a half hour long)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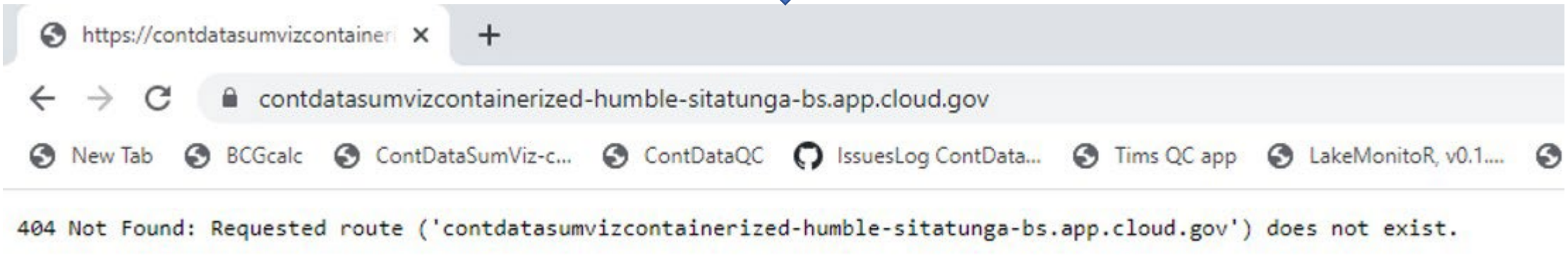
Flow Photo Explore...
SSA Line Crew
Tt MFT - https://ga...
SNEP IBI Shiny app
MassDEP IBI calc
Calculating the daily statistics now...
For Regional Monitoring Networks
Upload Data
Upload your data
Browse...
Upload complete
WaterTempC
27
No flag field found
No flag field found
No flag field found
Single site
Per site Per parameter
Calculate daily statistics
If the screen grays out like this for more than 30 seconds, something has gone wrong (e.g., it might not like something in your input file)
If this happens, abort (close the website, reopen and try again)
If you reboot the website and see this error message, it needs a little more time to reset. Close the browser, wait a bit (usually 30 seconds works for me) and try again. It make take several tries…


https://contdatasumvizcontainer
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New Tab
BCGcalc
ContDataSumViz-c...
ContDataQC
IssuesLog ContData...
Tims QC app
LakeMonitoR, v0.1....
404 Not Found: Requested route ('contdatasumvizcontainerized-humble-sitatunga-bs.app.cloud.gov') does not exist.