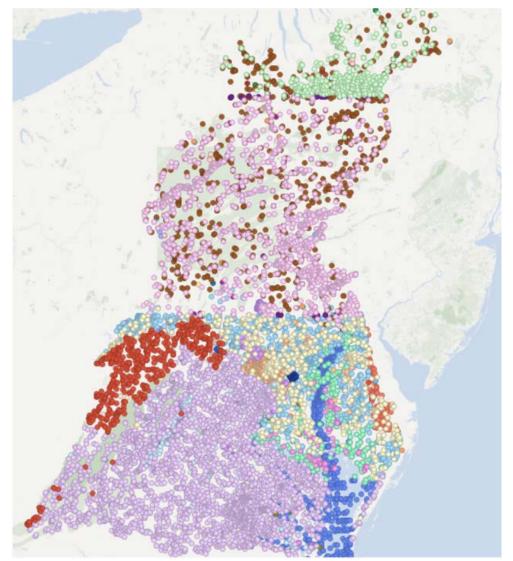


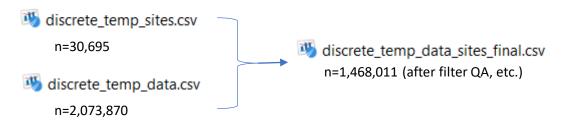
• Discrete Data Compilation • Continuous • Scripts/Data Pulls Methods QA/QC • Summaries Data Exploration Visualizations • Status and Trends **Future Plans** • Stakeholder Engagement Healthy Watersheds Use Cases Feedback

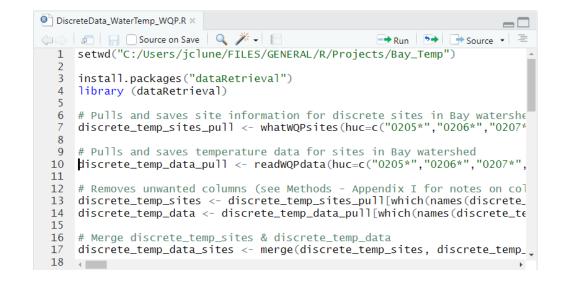


Identify Discrete Monitoring Stations and Metadata



Create a Script that pulls Discrete Observations



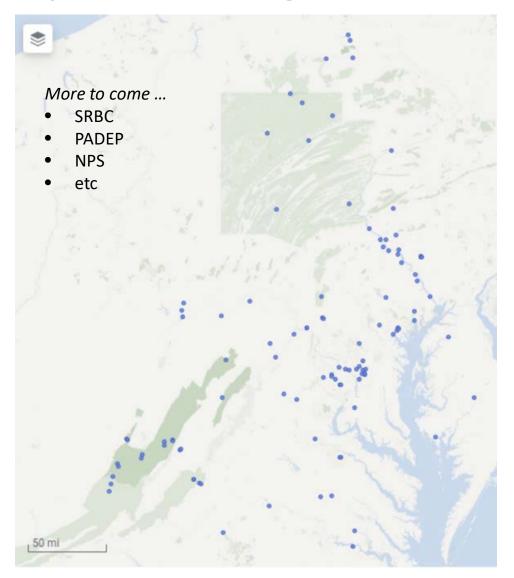




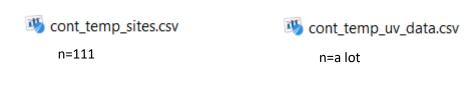
- Uses dataRetrieval for WQP records (1901-2020)
- Pulls Sites and Data by HUC and Merges
- Removes Unwanted Columns
- Filter Data (streams only, non QA, units, etc)

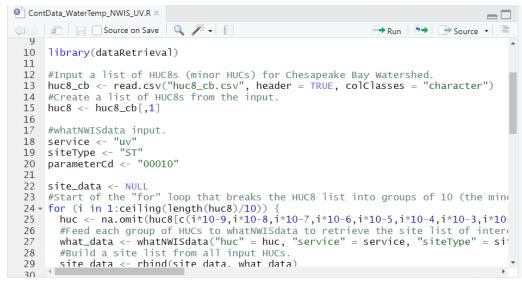


Identify Continuous Monitoring Stations and Metadata



Create a Script that pulls Continuous Observations





Uses dataRetrieval for NWIS unit values (any timeframe)



- Pulls Sites and Data by HUC code list
- Innovated Loop to Pull All Sites and All UVs
- Filter Data by timeframe needed

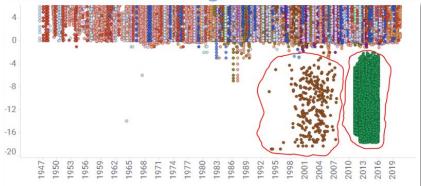


Methods/QA

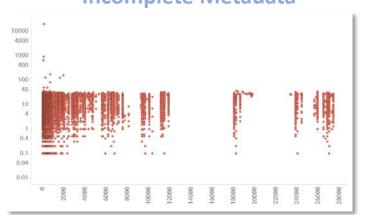
Mixed Formats



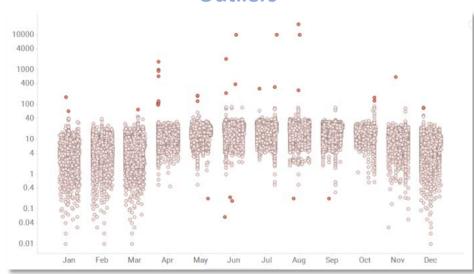
Wrong Units



Incomplete Metadata



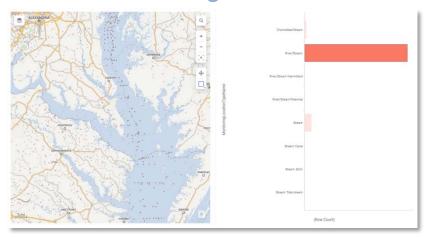
Outliers



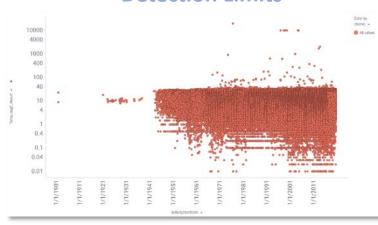
Site Duplication



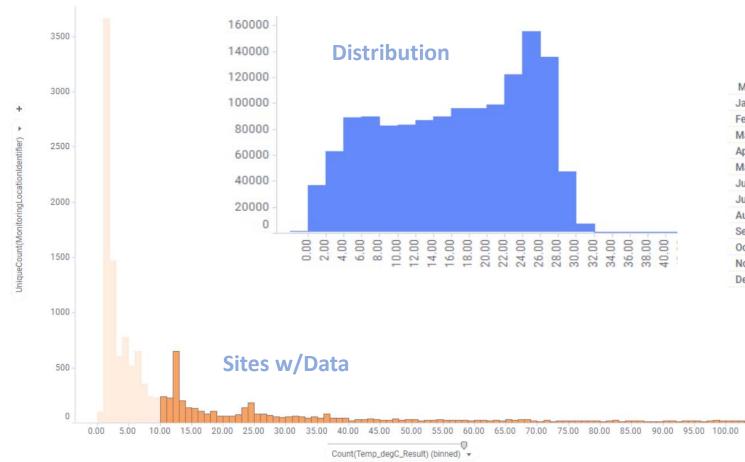
Coding Issues



Detection Limits



DRAFT MATERIAL - not for citation or public distribution



Summary Tables

Month	Count(Temp_degC	P10(Temp_degC	Median(Temp_degC	P90(Temp_degC
Jan	79286	0.00	3.70	7.20
Feb	80671	0.20	3.50	7.01
Mar	112233	2.46	6.50	10.72
Apr	138394	7.58	11.90	16.37
May	140127	12.30	17.00	21.20
Jun	148191	16.82	22.61	26.40
Jul	160287	20.50	25.80	28.53
Aug	159996	19.40	25.91	28.30
Sep	139427	14.70	23.10	26.00
Oct	141383	9.00	17.10	21.40
Nov	84737	6.00	11.50	14.90
Dec	76181	3.00	7.00	10.80

Future Plans

- Complete Data Compilation
- Additional Datasets
- QA/QC
- Summaries/Data Exploration
- Status and Trends Analysis
- Stakeholder Feedback/Meetings
- Use Cases



