

A “data pipeline” for BIOS-SCOPE

Poster by Krista Longnecker

Pipe line is based on code from Shuting Liu and Ruth Curry

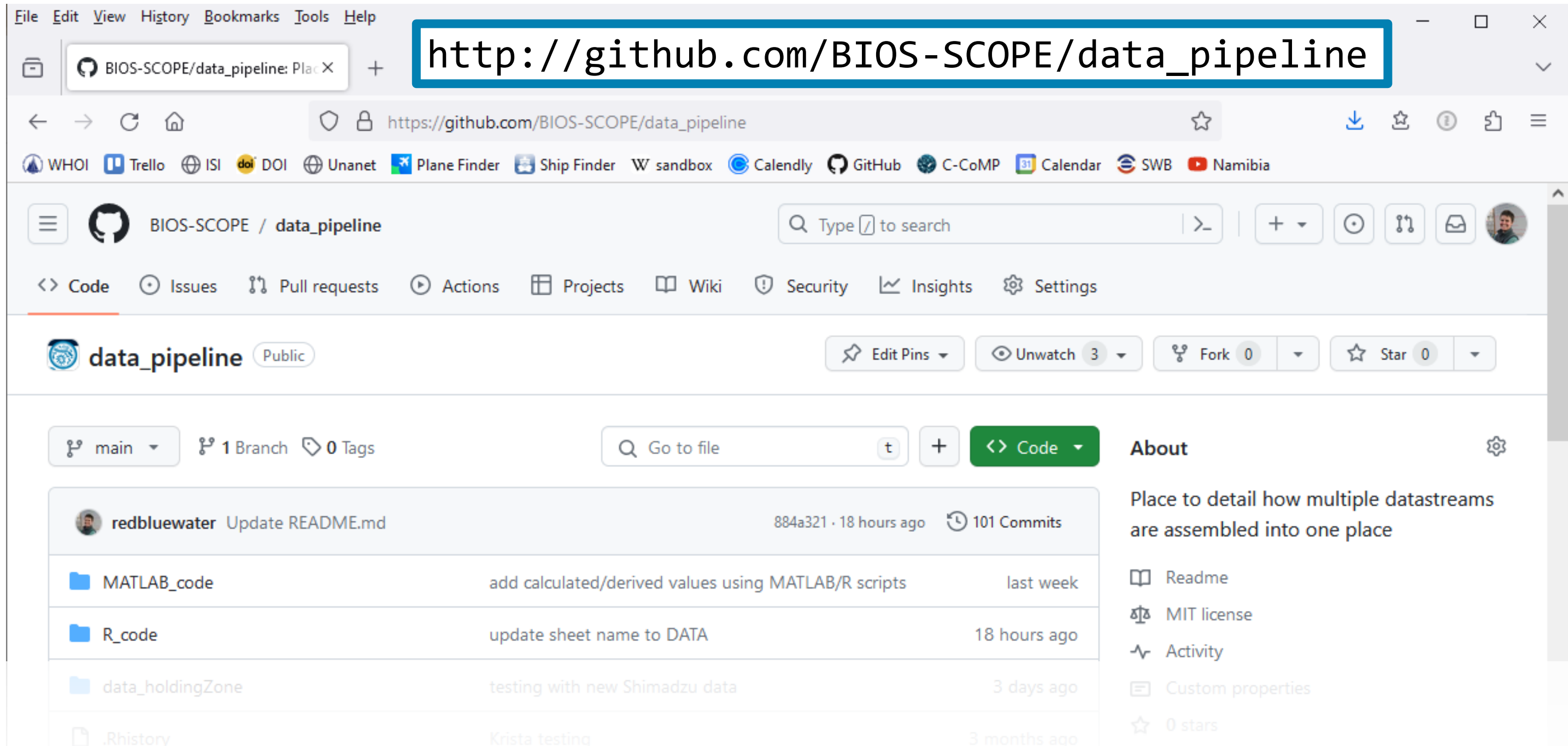
With thanks to Elisa Halewood and Rachel Parsons



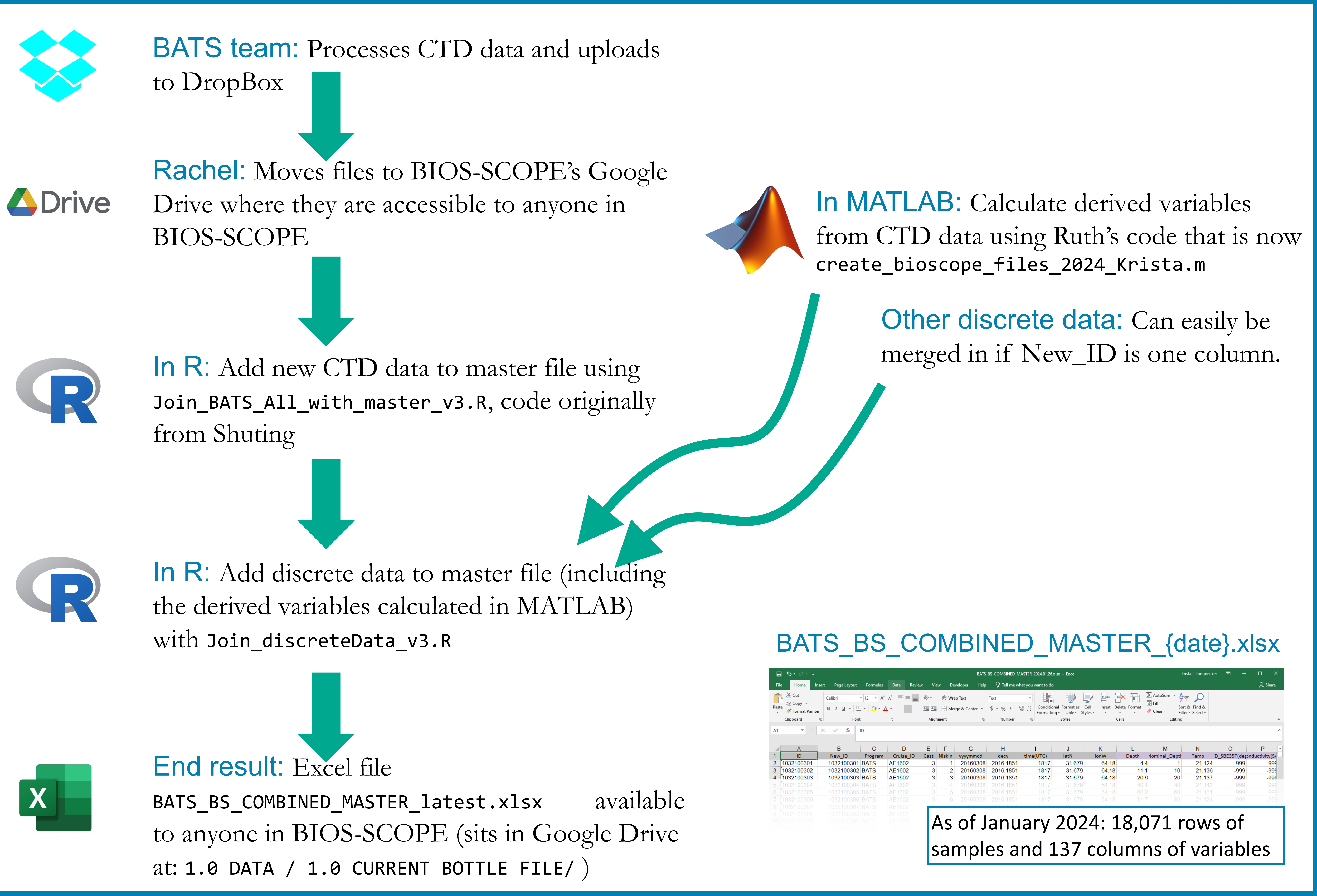
What is the goal?

We want a single file that combines CTD data, variables calculated from CTD data, and data from discrete samples.

All of this code is available online at GitHub



Step-by-step:



Another way of describing this pipeline:

at sea on land	Generate CTD data			Collect water for discrete samples		
	BATS team: CTD data processing			Process discrete samples (in lab)		
	BATS team: move data to DropBox			End result: data file for each set of discrete samples		
	Transfer data to BIOS-SCOPE Google Drive					
	Assigned to: Rachel Parsons (or Craig Carlson)					
	Get R script from github.com/BIOS-SCOPE/data_pipeline/R_code					
	Join_BATS_All_with_master_v3.R					
	Status: opens up Excel file with new data in rows					
	Next step: append the new rows to the existing bottle file; update the log; save Excel file with new date					
	Get MATLAB scripts from github.com/BIOS-SCOPE/data_pipeline/MATLAB_code					
	Create_bioscope_files_2024_Krista.m					
	Status: generates CSV file with the calculated variables					
	Next step: use Join_discreteData_v3.R to pull the variables into the bottle file					
	Get R script from github.com/BIOS-SCOPE/data_pipeline/R_code					
	Join_discreteData_v3.R					
	Status: generates one Excel sheet with all the discrete data					
	Next step: copy the new worksheet into the discrete file, copy the header with the colors, update the log					

Acknowledgements:

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