

Scenario 3 uncertainty data

1 message

George Allen <geoallen@vt.edu>

Wed, Jun 7, 2023 at 11:20 AM

To: Vinay Ravindra <vravindra@baeri.org>

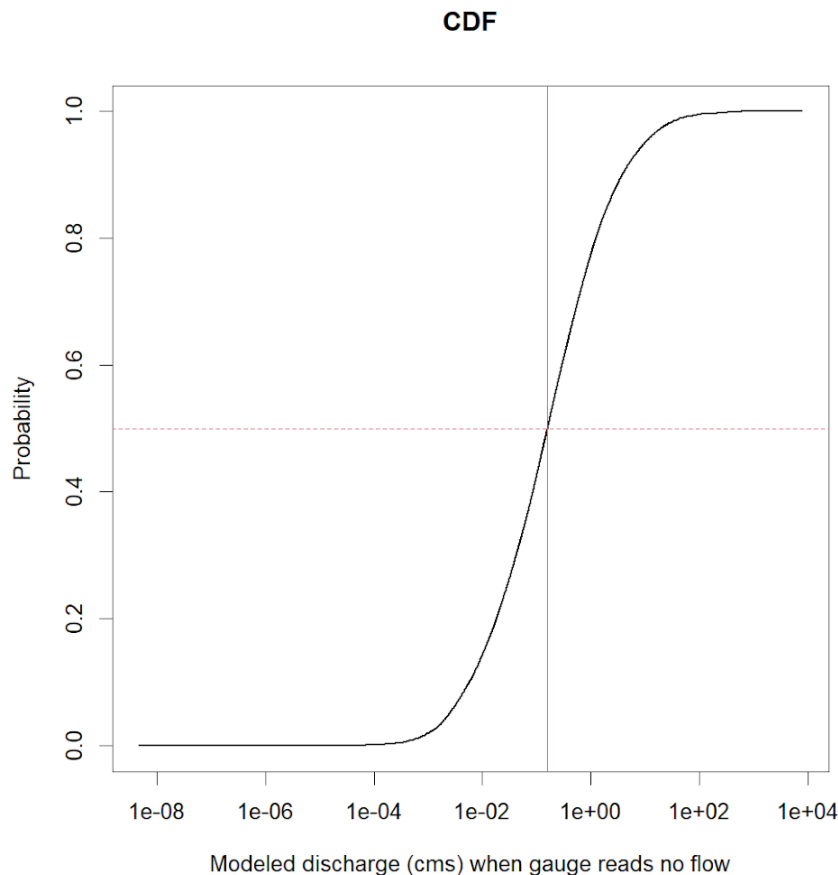
Cc: Molly Stroud <mollystroud@vt.edu>, "Selva Valero, Daniel" <dselva@tamu.edu>, Ben Gorr <bgorr@tamu.edu>, "Aguilar Jaramillo, Alan" <aguilaraj15@tamu.edu>, "David, Cedric H (US 329F)" <cedric.david@jpl.nasa.gov>

Hi Vinay,

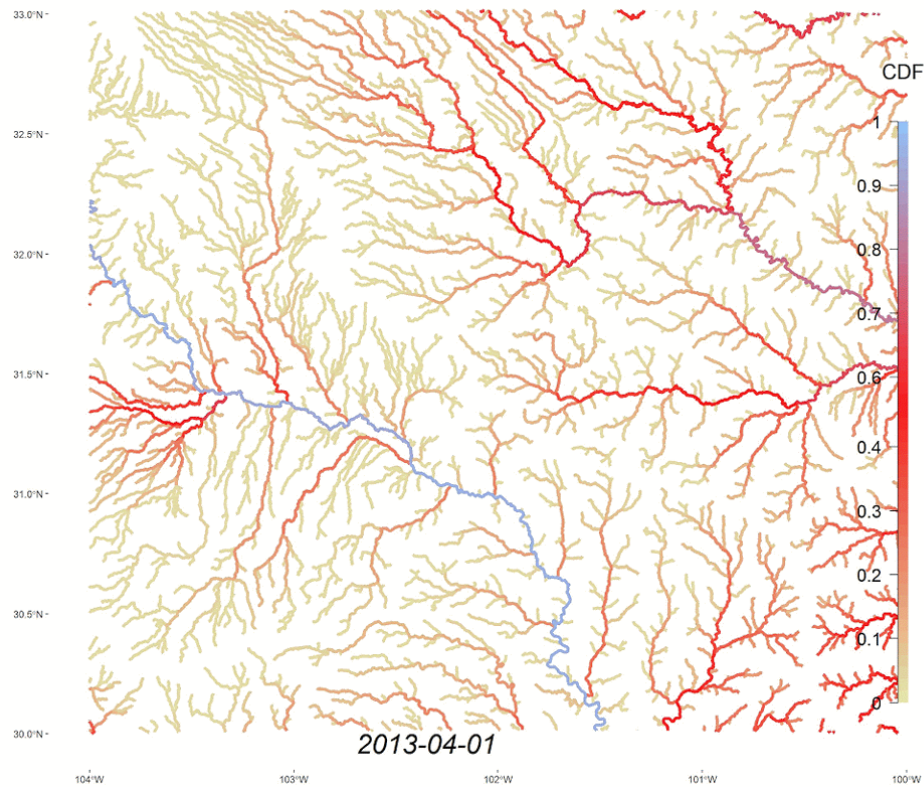
I've uploaded the wet/dry uncertainty estimates for the Texas study area in the shared drive under Scenario 3: <https://drive.google.com/drive/u/0/folders/1YRtH1geA13aLkftvki0Kw1CQRs5QnjA->

The data are in the same format as the width data that I previously generated. I estimated uncertainty using two approaches, like we discussed yesterday:

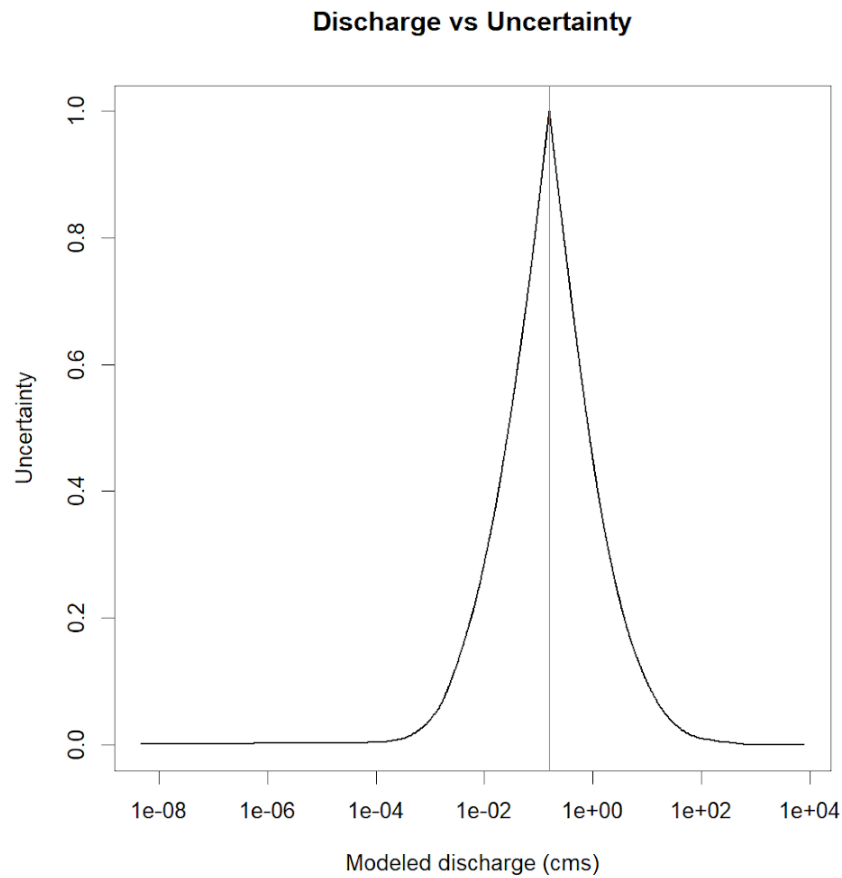
(1) A CDF of uncertainty with the median (0.5) corresponding to equal likelihood that the stream is wet or dry:



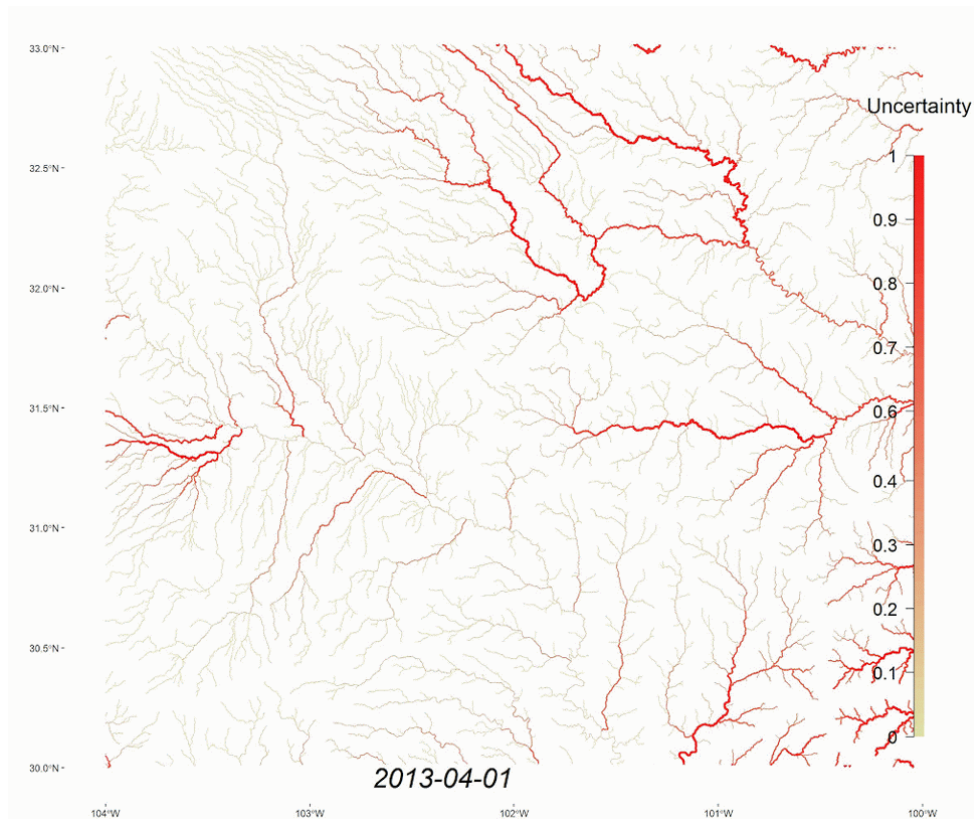
I also made a little animation to visualize the data (color corresponds to probability in the CDF above):



(2) A metric of uncertainty, scaled from 0 to 1 (where 1 is most uncertain):



Here's the corresponding visualization:



Let me know if you have any questions.

George

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<https://geos.vt.edu/people/Everyone/allen--george.html>