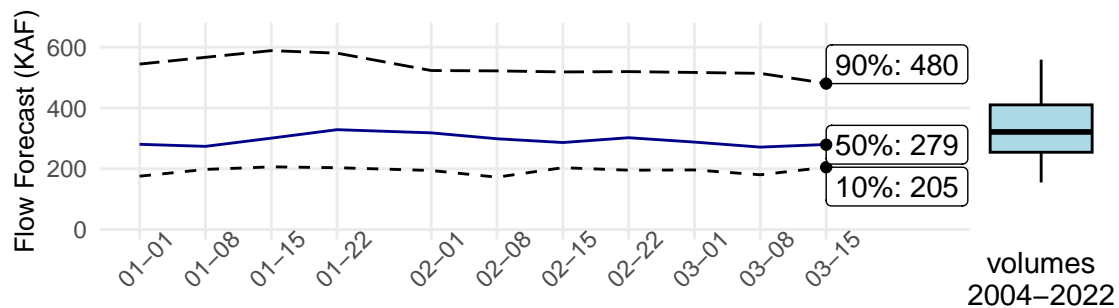


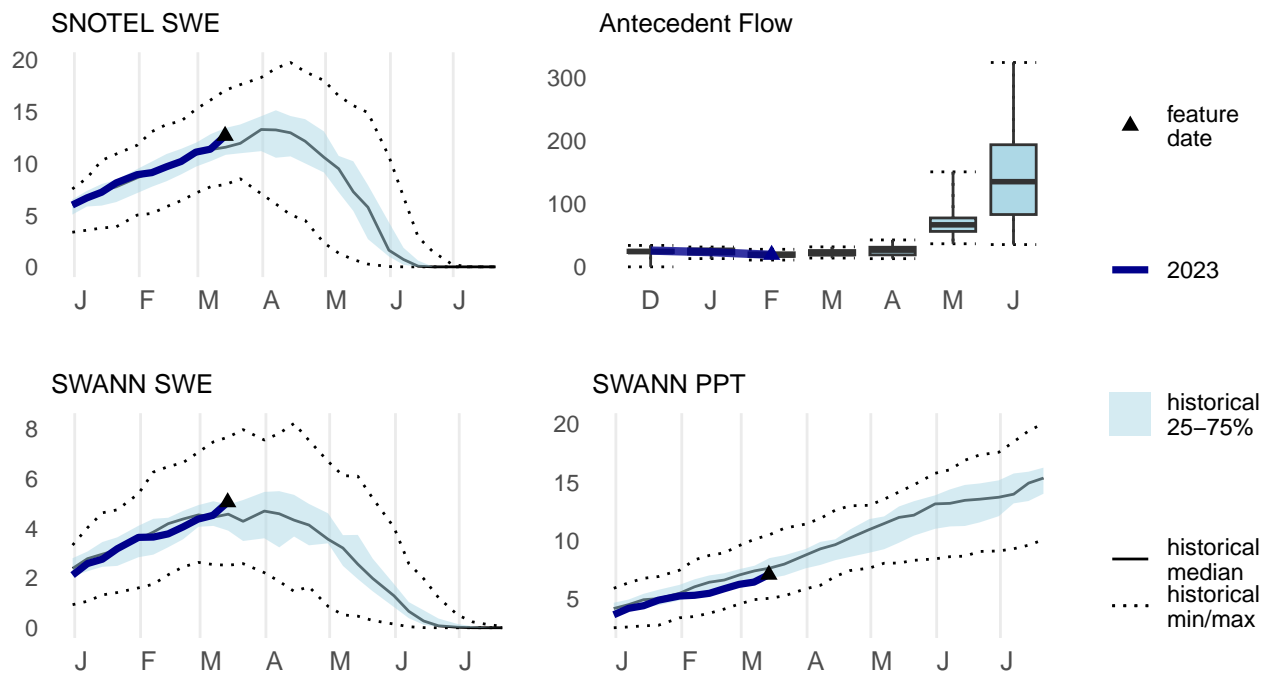
Forecast Report pueblo 2023-03-15

Forecast Communication Output

How forecast and uncertainty bounds evolved in 2023



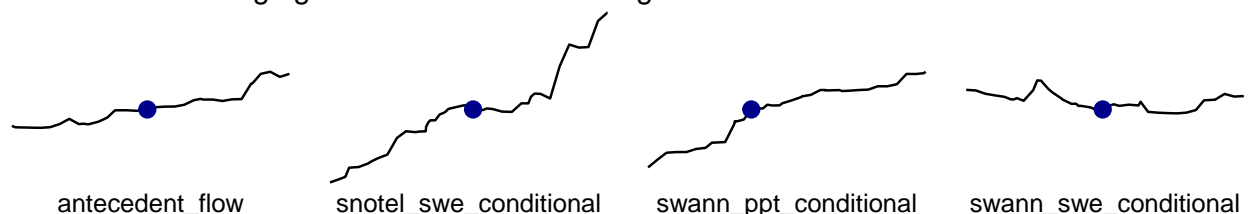
Comparing forecast conditions to historical conditions (2004 - 2022)

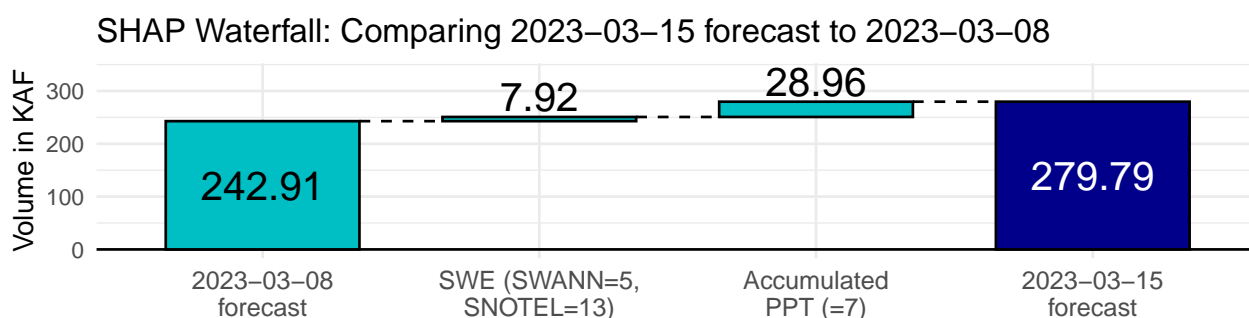
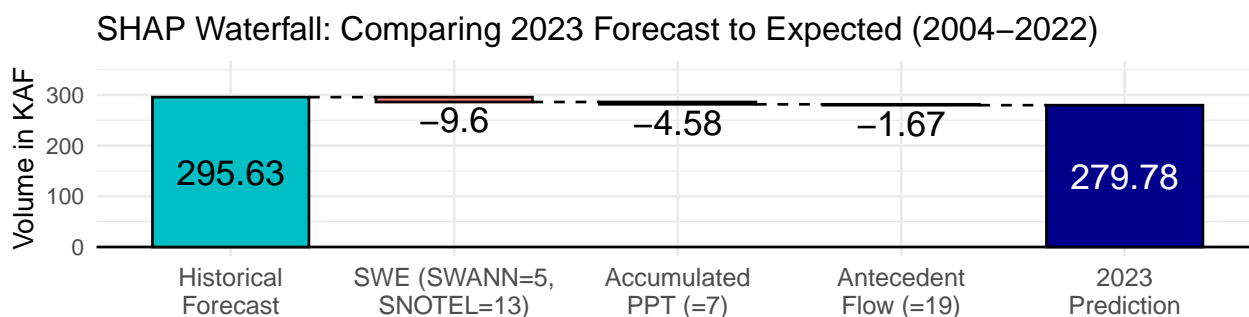


Explainability Communication Output

Forecast Explanation

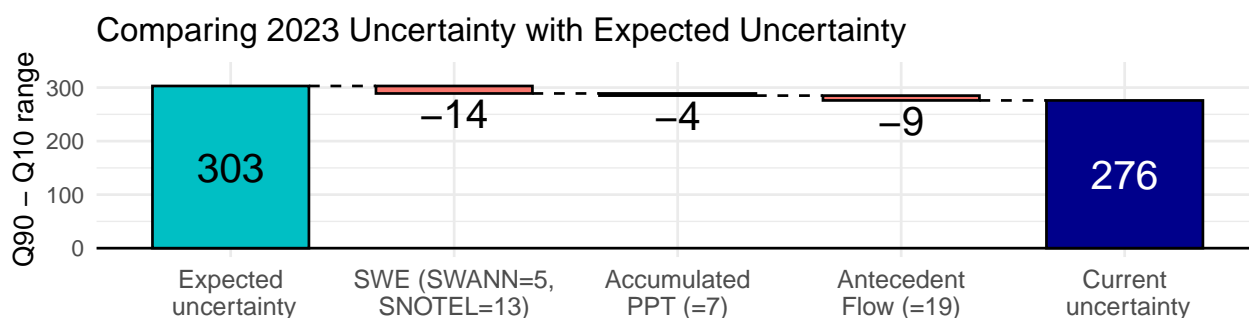
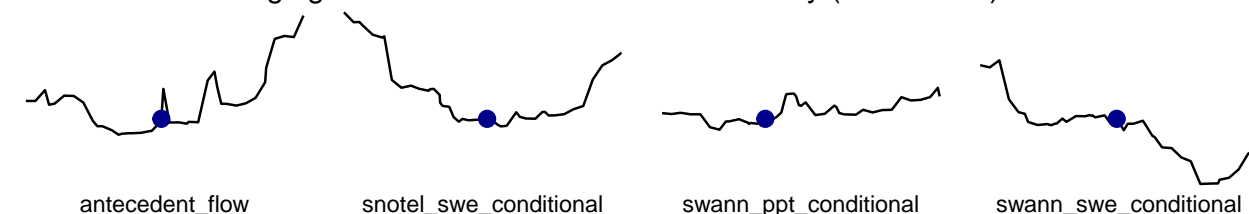
What-if: How changing individual features changes Q50 forecast





Uncertainty Explanation

What–if: How changing individual features affects uncertainty (Q90 – Q10)



Narrative Analysis

The forecasted flow for the Pueblo Reservoir is 279 KAF, with quantiles at 205 (10%) and 480 (90%). This is in line with expectations, as the mean of historical volumes is 300 KAF. Watershed conditions, including SWE, PPT, and antecedent flow, are generally as expected, with PPT slightly below the median. Recent changes in accumulated precipitation have increased the forecast compared to last week. Uncertainty is slightly lower than expected but remains comparable to typical uncertainty.