

## ***Interactive comment on “Is streamflow increasing? Trends in the coterminous United States” by N. Y. Krakauer and I. Fung***

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This well written paper presents a nice analysis on the streamflow patterns across the United States over the last centuries. The information is very useful in understanding hydrological response to recent environmental changes, and its possible consequence on water availability to the increasing humans' demand. The paper is in good shape as is, but could be improved as follows:

(1) It is shown in Table 1 that the regression coefficient of streamflow vs. precipitation varies with changes in precipitation seasonality (the proportion of summer rain). This interesting observation deserves some more discussion. For example, why is streamflow less covariated with precipitation at the regions with >65% summer rain (higher precipitation seasonality), than at the regions of 35-65% summer rain?

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(2) Please provide the predictive power ( $R^2$ ) of each variable (precipitation, temperature, and atmospheric  $\text{CO}_2$ ) on streamflow in each regression used in Table 1.

(3) In Figure 5, placing in temporal trends for streamflow and precipitation will help readers perceive the dynamic tendency among fluctuations across different periods. In addition, the meanings of different colored lines in Figure 5 have never been clarified in its caption.

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