Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2019-590-AC5, 2020 © Author(s) 2020. This work is distributed under the Creative Commons Attribution 4.0 License.



HESSD

Interactive comment

Interactive comment on "Estimation of hydrological drought recovery based on GRACE water storage deficit" by Alka Singh et al.

Alka Singh et al.

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Please see the modified figures! Thanks a lot!!

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2019-590, 2019.

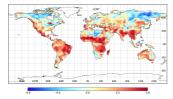
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a. Correlation coefficients



b. Regression Coefficients

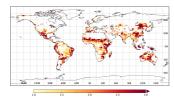


Figure 2: a) Correlation coefficients and, b) regression coefficients between cumulative detrended precipitation anomalies (cdPA) and detrended terrestrial water storage anomaly (dTWSA).

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Fig. 1.

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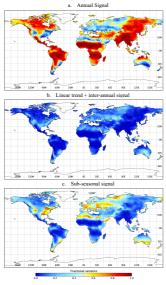


Figure 4: Fractional variance of the decomposed signal to the full signal. a. Annual Signal, b. Long-term signal, c. sub-seasonal high frequency signal

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Fig. 2.

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2500 120W 90W 60W 10W 0E 10E 60E 90E 120E 150E 160E

Figure 6: Nash-Sutcliffe coefficients for 2016-17 precipitation hindcasting.

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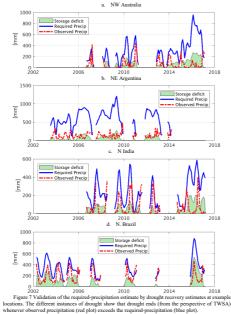


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locations. The different instances of drought show that drought ends (from the perspective of TWSA)

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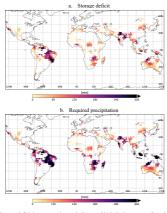


Figure 8: a) Storage deficit in an example month (January 2016). b) the amount of required-precipitation to fill the deficit.

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