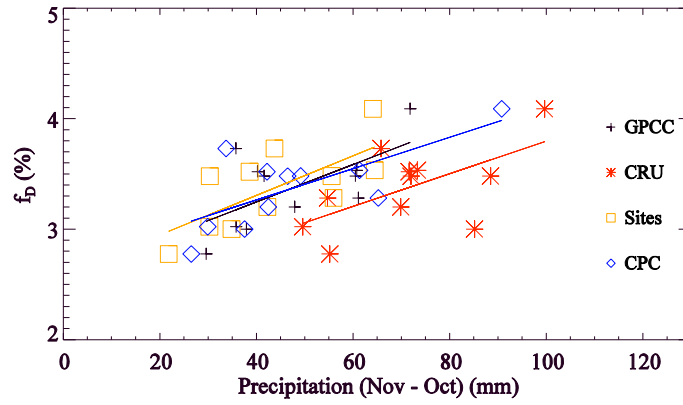# Supporting material

Table S1 Statistics (e.g., R^2, significance level (p), and the slope of the linear regression) between desert vegetation cover f_D and regional precipitation variations from different sources

	GPCC	CRU	SITES	CPC
R^2	0.40	0.37	0.49	0.51
p	0.04	0.05	0.02	0.01
Slope	0.017	0.015	0.018	0.014

1
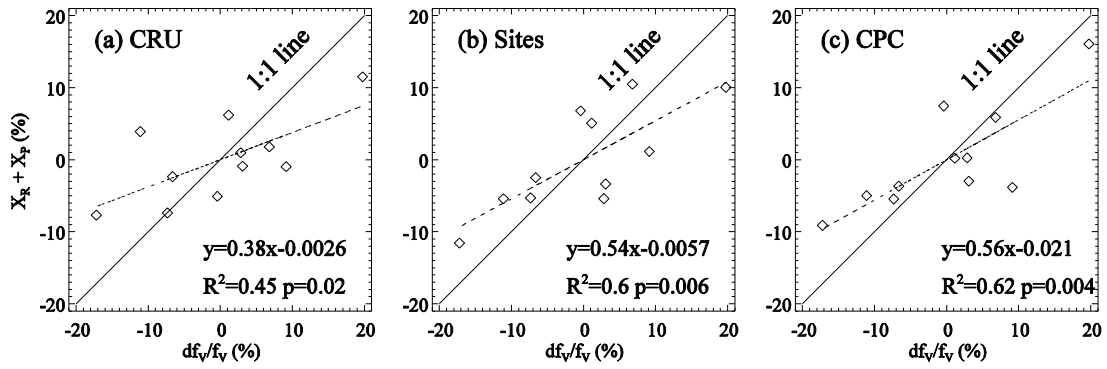

2

3   Fig. S1. Relationship between desert vegetation cover f_D and regional precipitation from

4   different data sets

5

6

7   Fig.S2. The observed annual changes in relative vegetation cover (d f_V / f_V) versus predicted

8   changes from water availability of runoff (X_R) and precipitation (X_P) in relative vegetation

9   cover with different percipitation data sources.

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