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Supplement of

Vegetation dynamics and climate seasonality jointly control the interannual catchment water balance in the Loess Plateau under the Budyko framework

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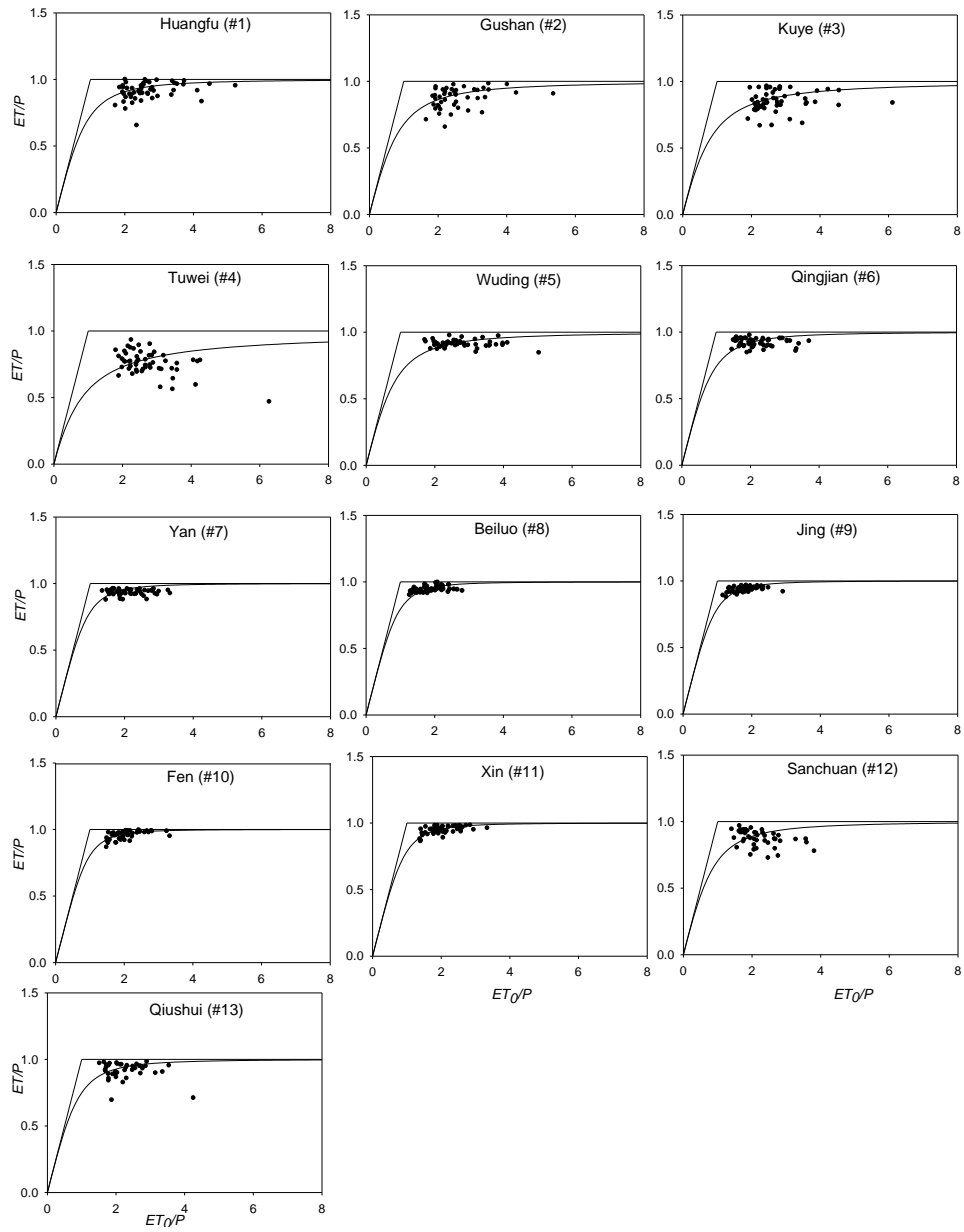


Figure S1. The functional relationship between the annual evapotranspiration ratio (ET/P) and dryness index (ET_0/P) in 13 basins.

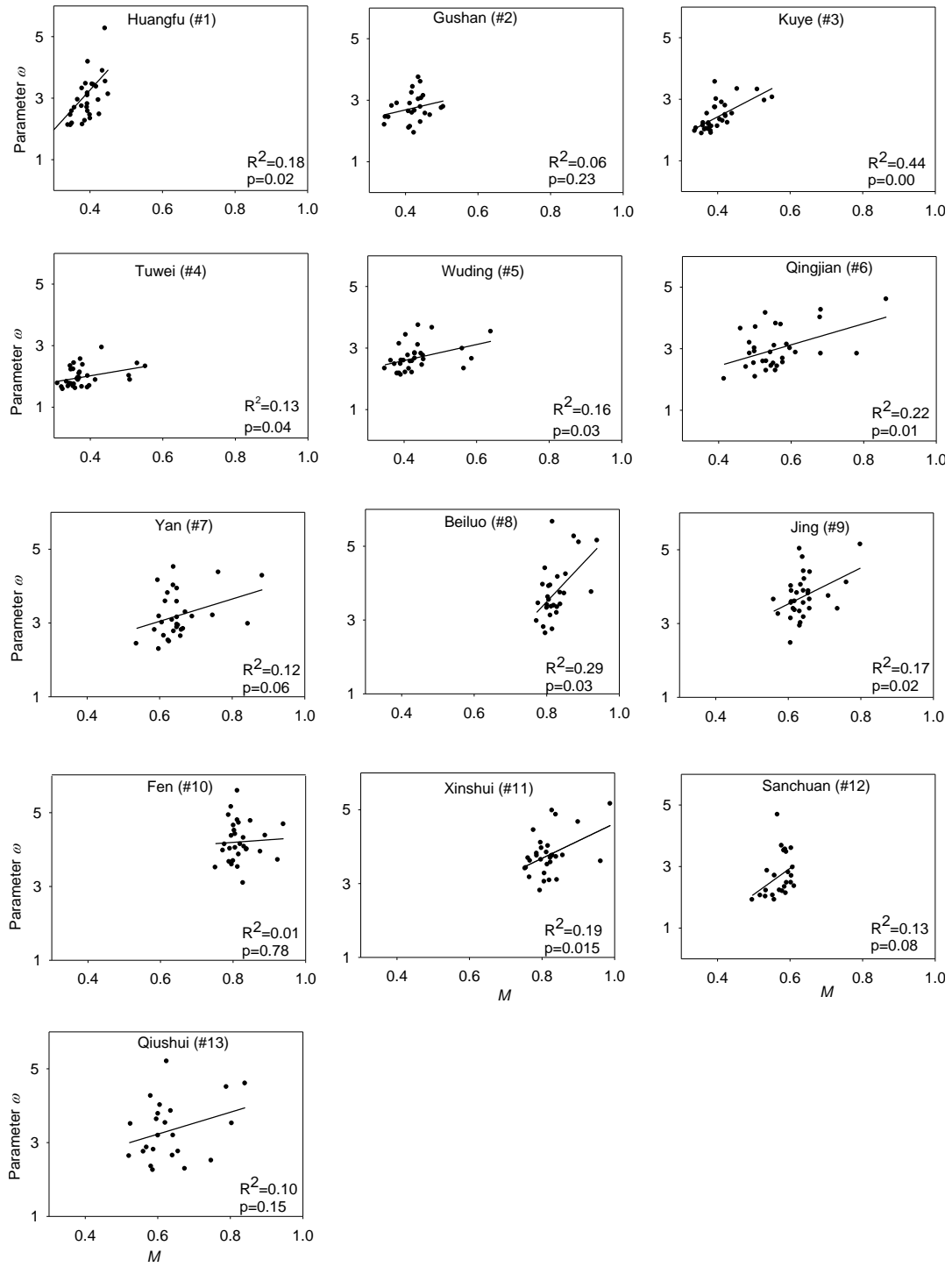


Figure S2. Relationships between the annual ω and vegetation coverage for each basin.

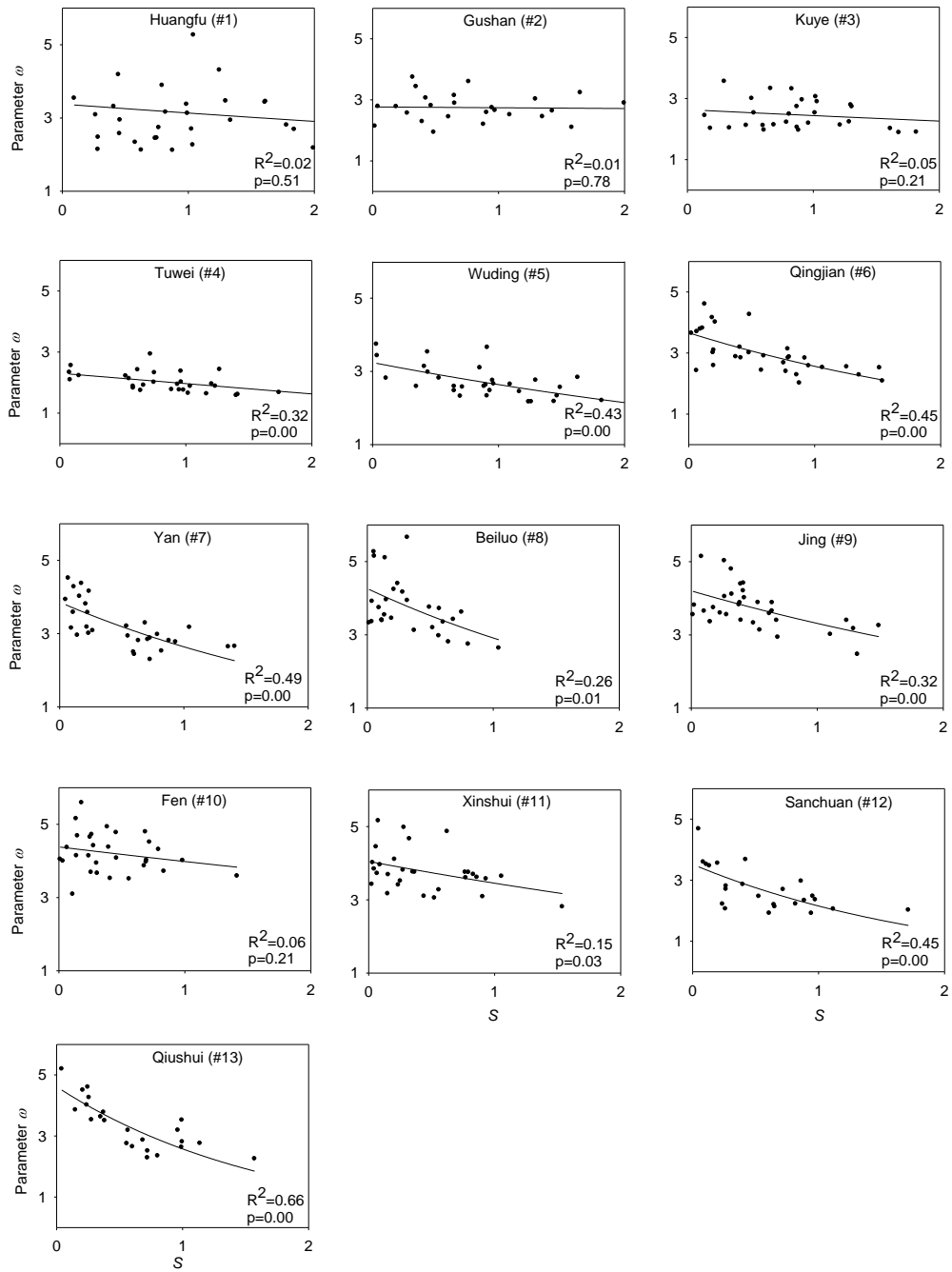


Figure S3. Relationships between the annual ω and climate seasonality index for each basin.

Table S1. The sensitivity coefficients of ET to ET_0 and P as well as ω to M and S for two sub-periods.

ID	Basin	Period I		Period II		Whole period	
		$\left(\frac{\partial ET}{\partial ET_0}\right)_1$	$\left(\frac{\partial ET}{\partial P}\right)_1$	$\left(\frac{\partial ET}{\partial ET_0}\right)_2$	$\left(\frac{\partial ET}{\partial P}\right)_2$	$\frac{\partial \omega}{\partial M}$	$\frac{\partial \omega}{\partial S}$
1	Huangfu	0.049	0.786	0.030	0.893	2.735	-0.321
2	Gushan	0.050	0.792	0.037	0.859	2.673	-0.350
3	Kuye	0.059	0.695	0.037	0.848	2.697	-0.323
4	Tuwei	0.066	0.601	0.063	0.674	2.753	-0.313
5	Wuding	0.046	0.789	0.041	0.834	2.690	-0.347
6	Qingjian	0.070	0.791	0.059	0.783	2.727	-0.456
7	Yan	0.086	0.788	0.057	0.812	2.695	-0.525
8	Beiluo	0.111	0.750	0.064	0.821	2.636	-0.644
9	Jing	0.116	0.744	0.075	0.813	2.810	-0.464
10	Fen	0.040	0.888	0.038	0.700	2.603	-0.634
11	Xinshui	0.060	0.839	0.044	0.871	2.576	-0.628
12	Sanchuan	0.078	0.719	0.054	0.780	2.513	-0.610
13	Qiushui	0.068	0.759	0.029	0.859	2.646	-0.472