

Empirical relationships of groundwater head-salinity response to variations of sea level
and vertical recharge in coastal karst aquifers

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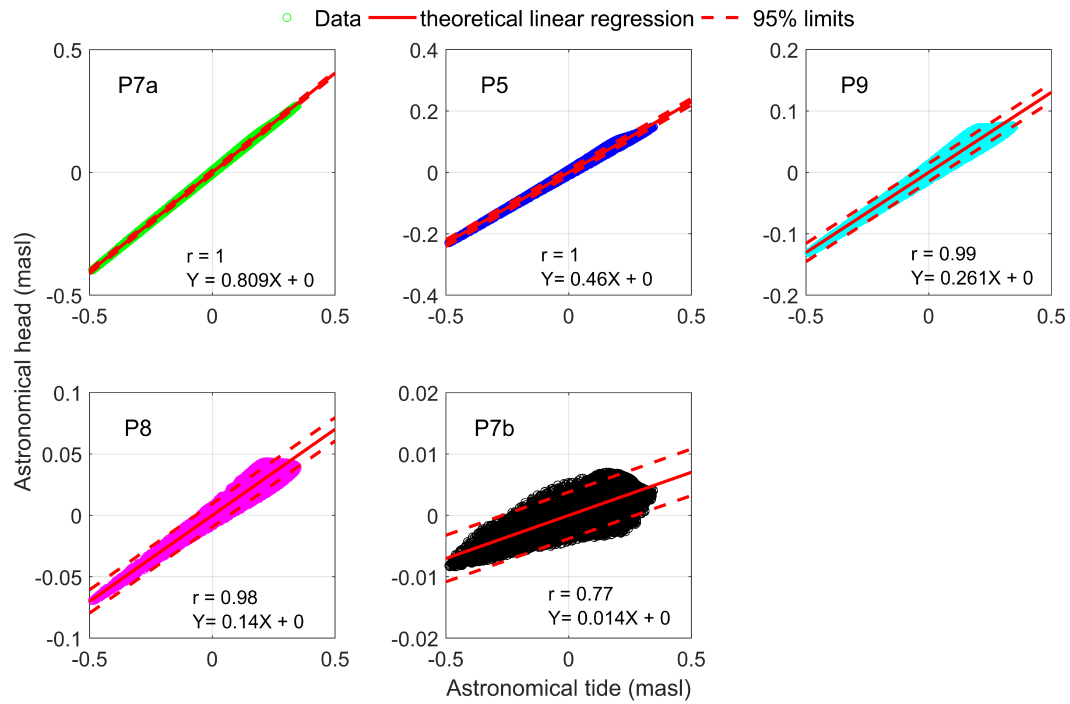


Fig. S1 Linear correlation of astronomical tide with astronomical aquifer head.

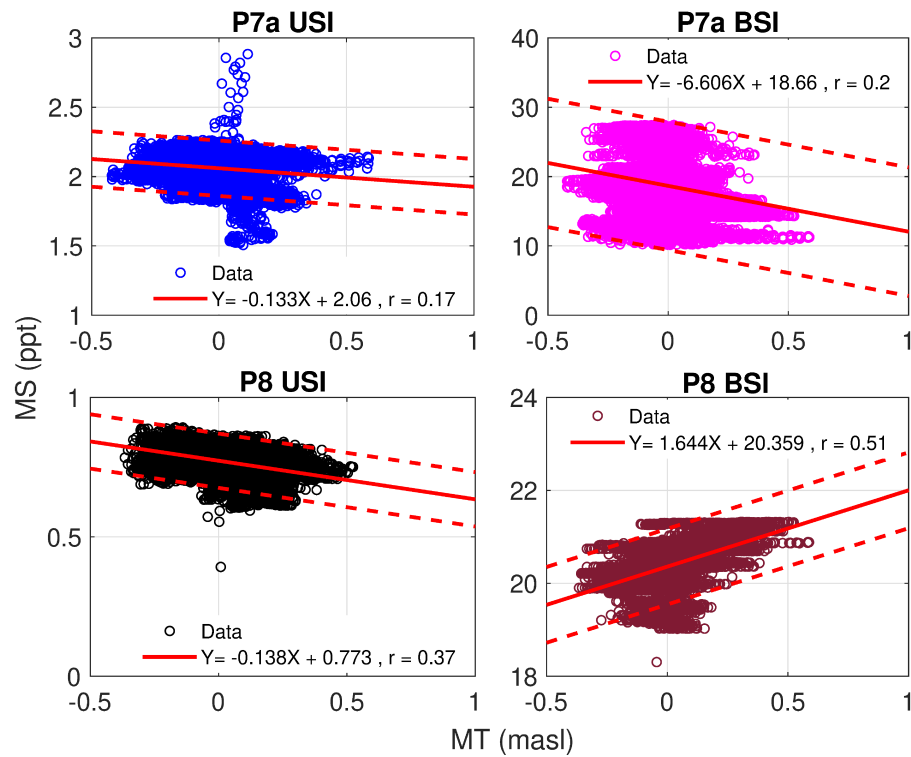


Fig. S2 Linear correlation of meteorological tide (MT) with meteorological salinity (MS).

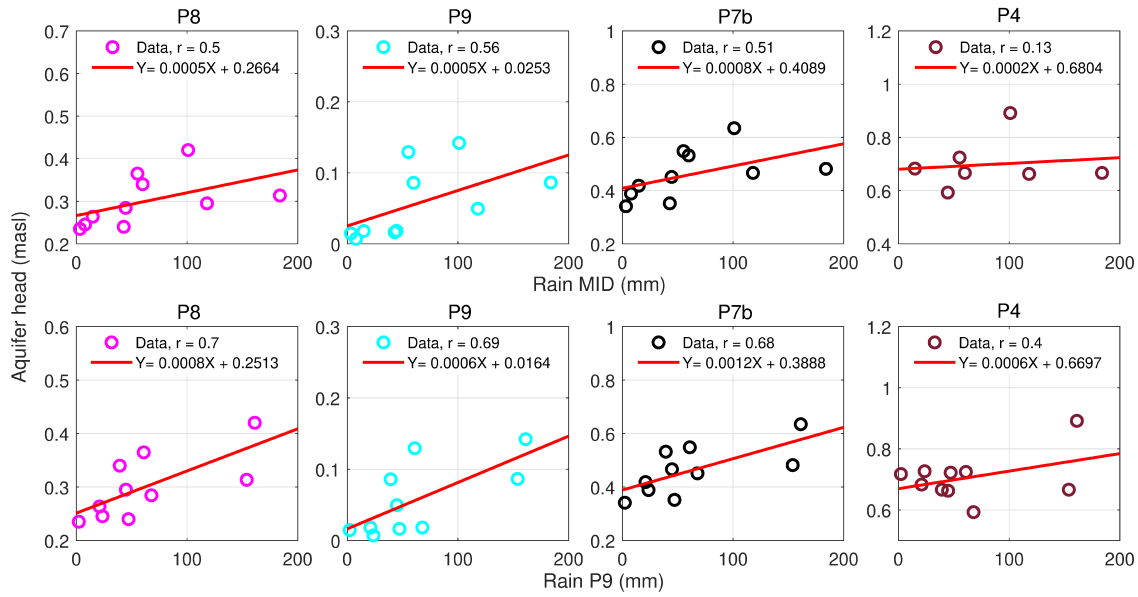


Fig. S3 Linear correlation of seasonal precipitation and seasonal aquifer head.

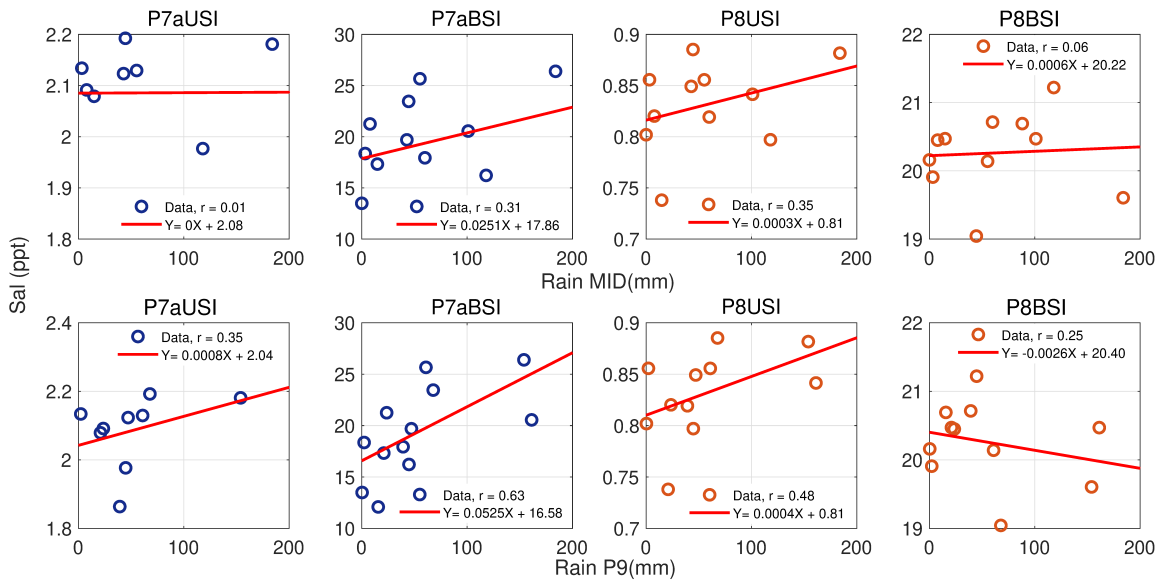


Fig. S4 Linear correlation of seasonal precipitation and seasonal salinity.

Table S1 Correlation of short-term effects of precipitation in the aquifer.

Short term precipitation effects of P9 in aquifer head						
ID	jun-17		jul-17		sep-17	
	r	t lag (hrs)	r	t lag (hrs)	r	t lag (hrs)
P8	0.40	0.5	0.40	8.0	0.31	2.5
P9	0.51	0.5	0.37	8.0	0.34	2.5
P7b	0.47	0.5	0.31	6.0	0.46	2.5
P4	0.50	0.5	0.32	6.0	0.46	2.5
Short term precipitation effects of P9 in salinity						
ID	jun-17		jul-17		sep-17	
	r	t lag (hrs)	r	t lag (hrs)	r	t lag (hrs)
P7aUSI	0.50	1.0	0.12	-33.00	0.27	-6.5
P8USI	0.23	77.0	0.12	-6.00	0.30	-17.0
Short term precipitation effects of MID in aquifer head						
ID	jun-17		jul-17		sep-17	
	r	t lag (hrs)	r	t lag (hrs)	r	t lag (hrs)
P8	0.19	90.0	0.42	33.0	0.54	26.5
P9	0.20	90.0	0.41	33.0	0.54	26.5
P7b	0.18	80.5	0.28	32.5	0.51	26.0
P4	0.17	82.5	0.30	32.5	0.50	26.0