

Supplementary Table 1. Correlation coefficients between log runoff and SSH at each region from -12 to 12 months of time lag of SSH. A positive time lag means SSH precedes runoff; a negative time means SSH leads runoff.

Time lag	Palawan	Zamboanga and Sulu	W Luzon	Batanes	E Luzon	Cagayan	E Mindanao and Samar	Internal Seas	S Mindanao
-12	0.129	0.322	0.272	0.067	0.186	0.202	0.299	0.258	0.331
-11	0.208	0.396	0.332	0.082	0.249	0.253	0.365	0.326	0.409
-10	0.293	0.472	0.394	0.100	0.315	0.307	0.431	0.396	0.485
-9	0.384	0.548	0.456	0.124	0.381	0.363	0.497	0.467	0.559
-8	0.477	0.623	0.517	0.155	0.448	0.419	0.561	0.535	0.627
-7	0.569	0.693	0.573	0.195	0.513	0.477	0.619	0.599	0.687
-6	0.656	0.756	0.626	0.247	0.574	0.536	0.669	0.656	0.737
-5	0.736	0.810	0.672	0.304	0.628	0.594	0.710	0.704	0.775
-4	0.805	0.853	0.712	0.360	0.674	0.647	0.740	0.741	0.801
-3	0.859	0.883	0.742	0.412	0.709	0.689	0.757	0.765	0.813
-2	0.896	0.899	0.760	0.453	0.731	0.718	0.762	0.775	0.812
-1	0.914	0.900	0.766	0.480	0.740	0.734	0.753	0.771	0.797
0	0.912	0.887	0.760	0.492	0.737	0.736	0.732	0.753	0.769
1	0.891	0.860	0.740	0.490	0.720	0.724	0.698	0.720	0.731
2	0.853	0.820	0.710	0.478	0.692	0.702	0.653	0.677	0.682
3	0.802	0.770	0.672	0.459	0.656	0.671	0.599	0.625	0.625
4	0.741	0.712	0.628	0.433	0.612	0.633	0.537	0.566	0.562
5	0.673	0.647	0.580	0.397	0.564	0.589	0.469	0.502	0.495
6	0.602	0.580	0.531	0.353	0.512	0.540	0.398	0.437	0.427
7	0.529	0.510	0.481	0.308	0.459	0.488	0.326	0.371	0.358
8	0.458	0.442	0.432	0.265	0.406	0.434	0.254	0.307	0.291
9	0.389	0.375	0.384	0.222	0.354	0.382	0.184	0.245	0.228
10	0.326	0.312	0.339	0.184	0.305	0.333	0.119	0.188	0.168
11	0.269	0.255	0.297	0.152	0.261	0.290	0.059	0.136	0.115
12	0.218	0.202	0.259	0.124	0.221	0.253	0.005	0.090	0.067