

Supplement of

Hydro-climatic Controls on Streamflow Regime Evolution in Diverse Chilean Catchments

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S1. Trend analysis significances

Table S1. ρ values of trends for all variables and catchments.

Catchment	p value						
	Q	PP	PP7	T	SM	SM3	SM7
RDC	0.2043	0.6118	0.3976	0.9775	0.7780	0.0021	0.0019
RLEL	0.0804	0.3235	0.2839	0.7563	0.1586	0.0013	0.0023
CLS1	0.3519	0.4635	0.5165	0.4807	0.0853	0.0006	0.0021
RLJ	0.0179	0.0369	0.4298	0.7994	0.8656	0.1845	0.0853
RGG	0.1942	0.0907	0.1759	0.6722	0.8214	0.0321	0.0112
RTARS	0.4986	0.7351	0.4986	0.1849	0.9326	0.2363	0.2147
RSPP2	0.0000	0.3976	0.2839	0.4133	0.6519	0.8656	0.8656
RSSA	0.1759	0.8878	0.6519	0.0907	0.7138	0.1669	0.1426
RSAJC	0.4986	0.5350	0.6930	0.1946	0.8878	0.1946	0.2147
RLVSB	0.1208	0.1208	0.2363	0.1208	0.0423	0.0258	0.0588
RLRL	0.1426	0.1019	0.1019	0.1208	0.0208	0.0208	0.0588
RSPC	0.0016	0.6519	1.0000	0.2839	0.8215	0.4986	0.4986
CVV	0.0148	0.3100	0.8656	0.9326	0.4298	0.8215	0.9550
CTR	0.5883	0.2251	0.2839	0.3514	0.0369	0.1759	0.2251
RCCC	0.2672	0.2363	0.2147	0.0393	0.7780	0.3665	0.3100
CMPDB	0.6118	0.1426	0.2147	0.0484	0.8656	0.2043	0.1426
RCLP	0.5536	0.1759	0.1278	0.0667	0.9550	0.4298	0.1502
RELS	0.0023	0.0552	0.0711	0.0802	0.0423	0.0321	0.0627
ECES	0.0010	0.0321	0.0423	0.5728	0.0484	0.0278	0.1208
RTD	0.0321	0.0484	0.0552	0.0298	0.3466	0.4982	0.3235
RMCU	0.0001	0.0241	0.0423	0.1426	0.9102	0.7780	0.9102
RMCA	0.0009	0.0321	0.0484	0.0853	0.0667	0.5728	0.5728
RGLR	0.0002	0.0153	0.0423	0.0853	1.0000	1.0000	1.0000
RGC	0.0034	0.0369	0.0484	0.0298	0.3100	0.2043	0.1669
EYLSF	0.0028	0.0003	0.0068	0.0588	0.1426	0.7351	0.5350
RSFEYL	0.0344	0.0003	0.0068	0.0804	0.2239	0.2713	0.2594
RMSF	0.0423	0.0003	0.0048	0.0516	0.8215	0.4463	0.2043
EALM	0.0153	0.0005	0.0131	0.0516	0.2239	0.2474	0.2474
RVT	0.1278	0.1759	0.0484	0.7780	0.0258	0.0086	0.0005
RRQC	0.0068	0.2251	0.0627	0.6519	0.1669	0.0131	0.0025
RDSA	0.0804	0.6519	0.0711	0.9102	0.5350	0.0755	0.0120
ECHCH	0.1019	0.9102	0.1019	0.9326	0.8655	0.0627	0.0048
RLL	0.0095	0.0179	0.0711	0.3976	0.0853	0.0103	0.0006
RTV	0.5920	0.8656	0.1019	1.0000	0.6118	0.0804	0.0192
RQL	0.8878	0.9550	0.1426	0.8215	0.3100	0.0516	0.0019
RNLL	0.2966	0.0711	0.0369	0.0131	0.3519	0.0031	0.0044
RMLQ	0.0907	0.0484	0.0179	0.2251	0.0278	0.0121	0.0067
RTT	0.0804	0.1759	0.0095	0.0423	0.0009	0.0031	0.0853

S2. Correlation matrices for all study zones

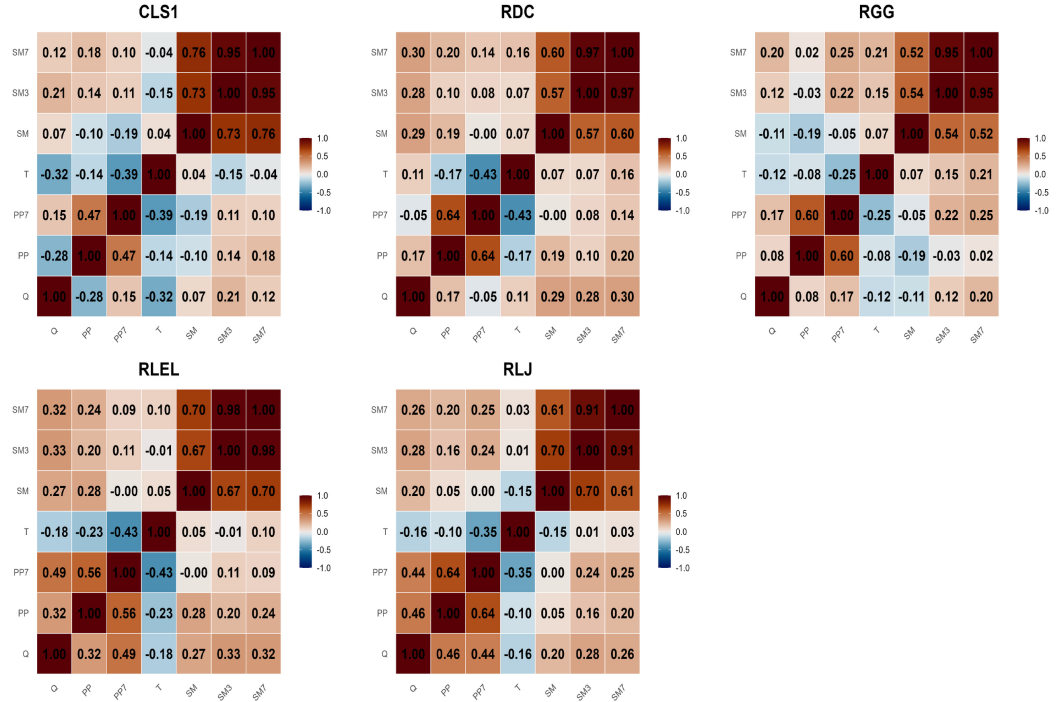


Figure S1. "ET (w)" correlation matrices for all combinations of variables

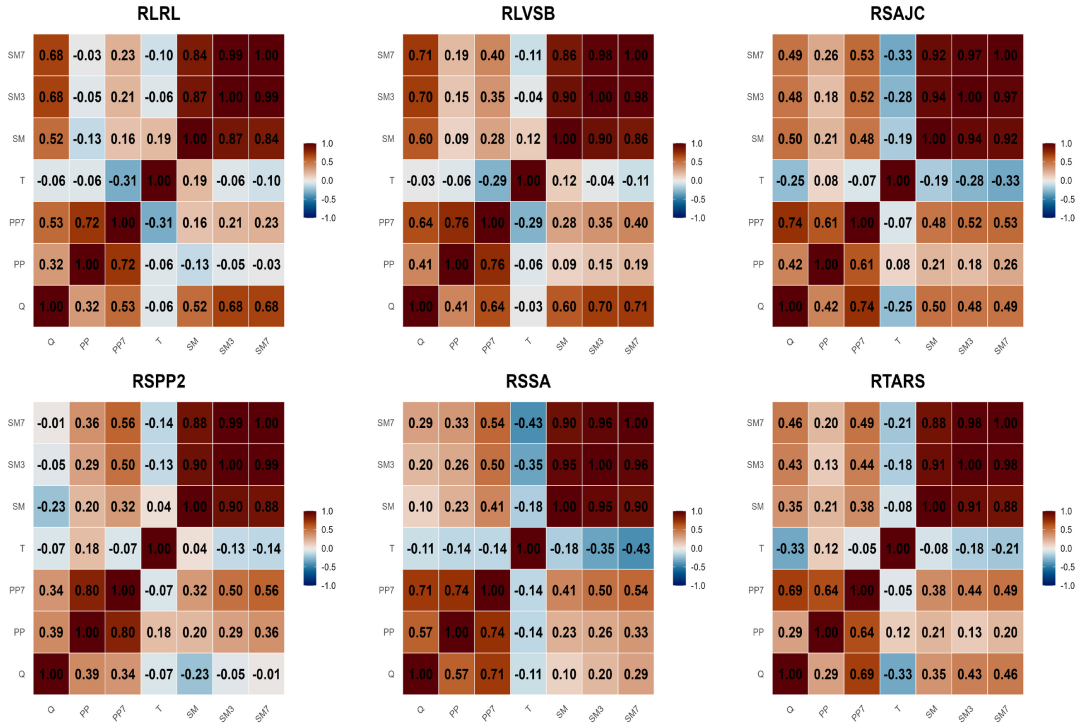


Figure S2. "ET (w) - BSk (w)" correlation matrices for all combinations of variables

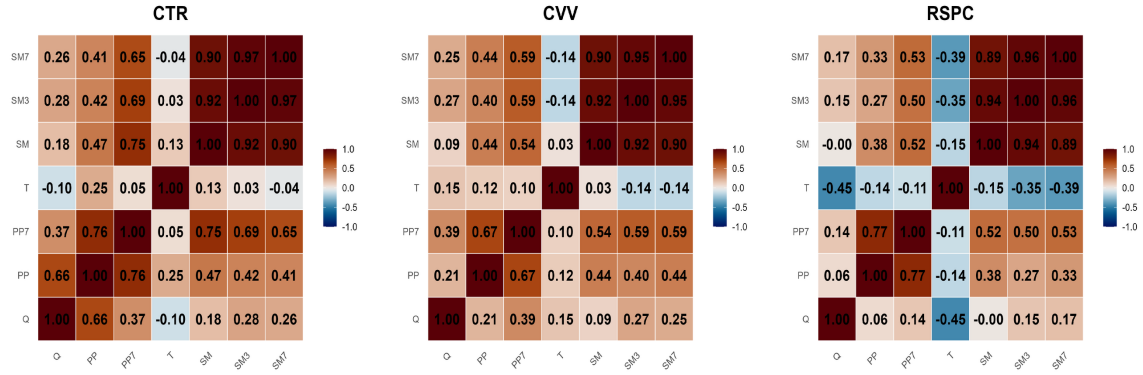


Figure S3. “BSk (w) - ET (w)” correlation matrices for all combinations of variables

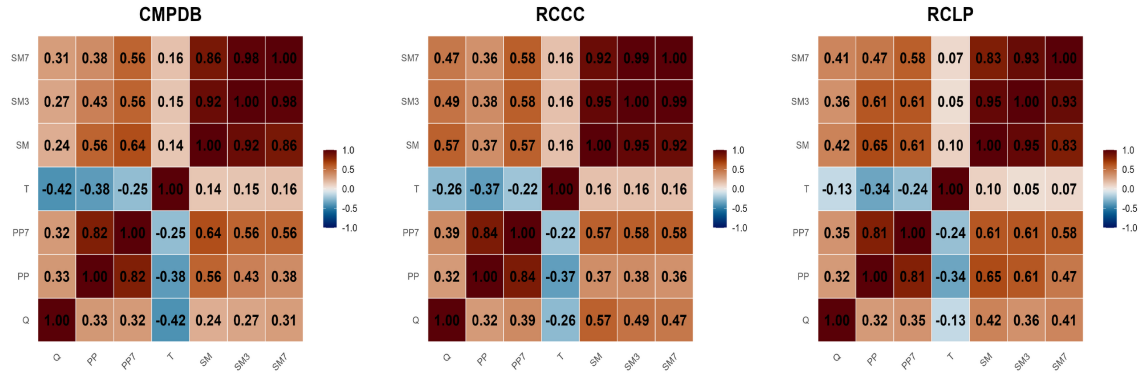


Figure S4. “ET - BSk (s)” correlation matrices for all combinations of variables

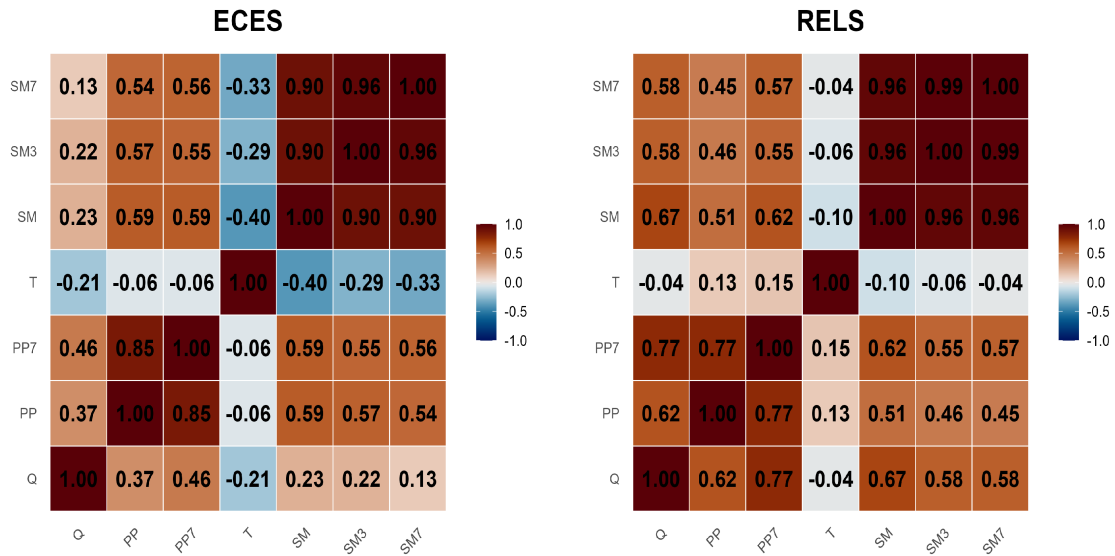


Figure S5. “BSk (s) - ET (s) - BSk (s) (i)” correlation matrices for all combinations of variables

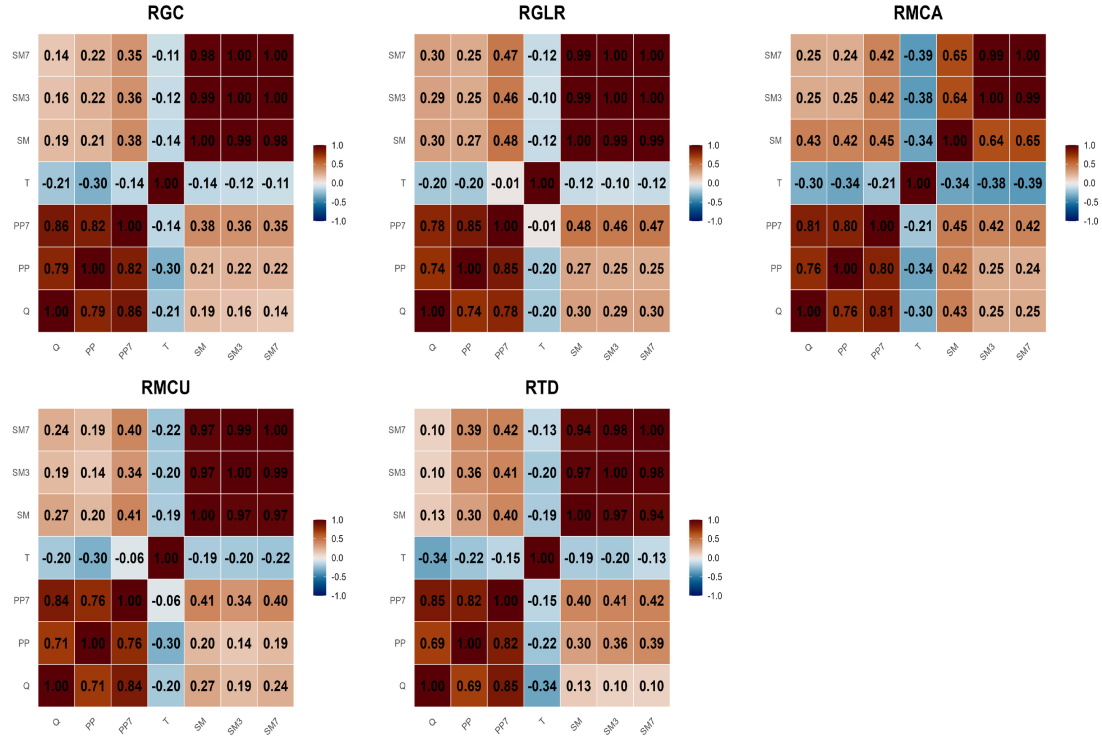


Figure S6. “BSk (s) - ET (s)” correlation matrices for all combinations of variables

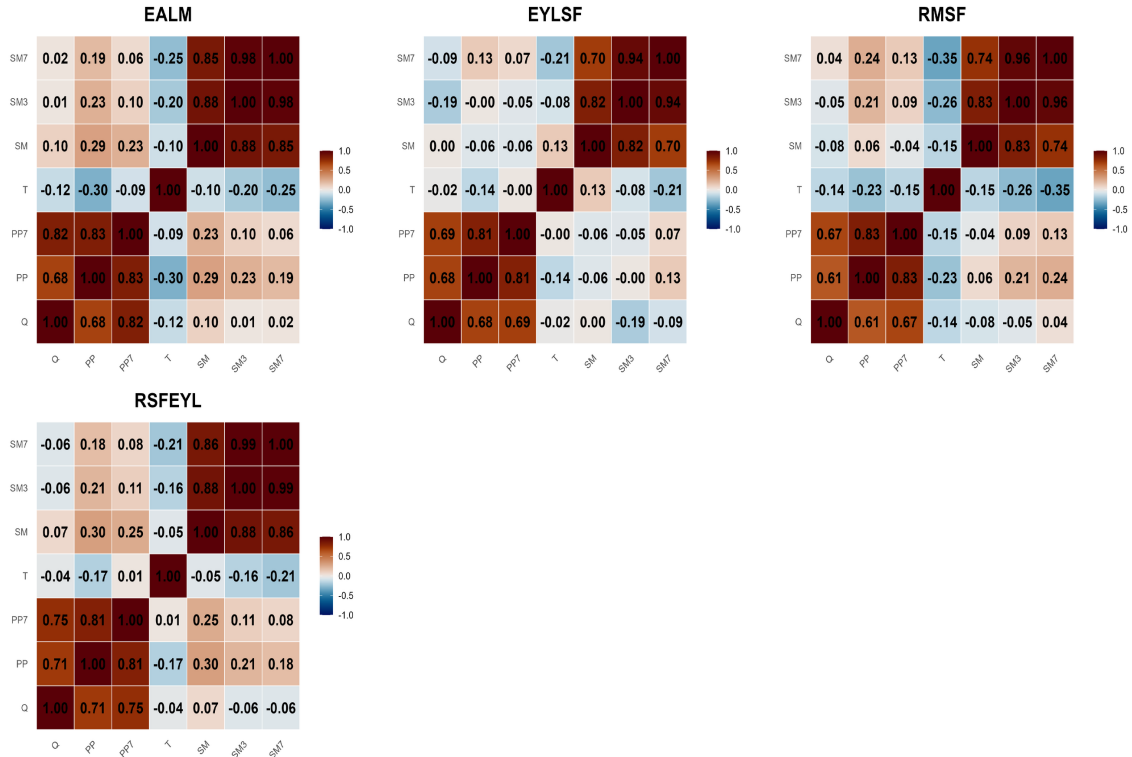


Figure S7. “ET (s) - Csb (h) - Csc” correlation matrices for all combinations of variables

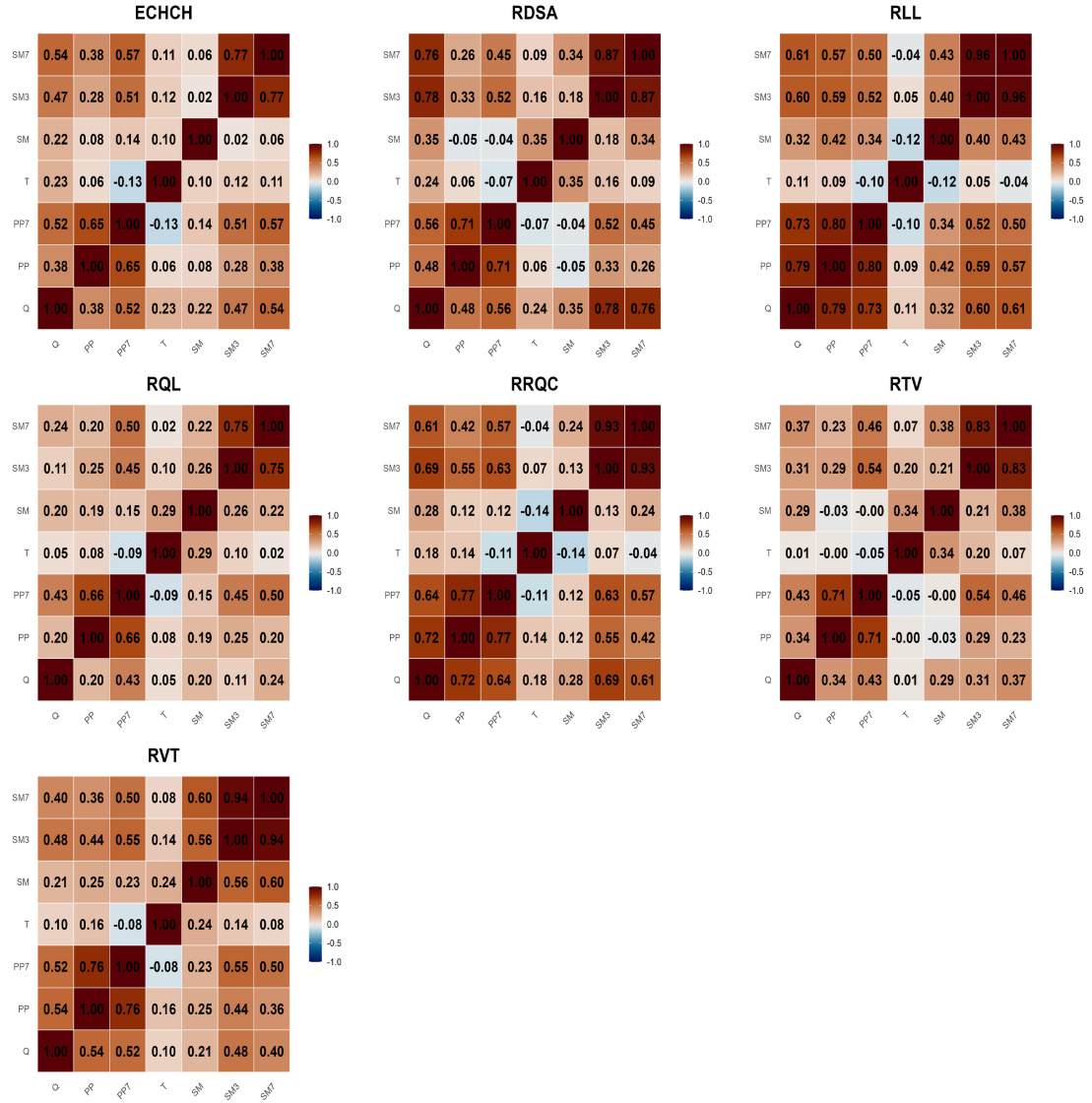


Figure S8. “Csb” correlation matrices for all combinations of variables

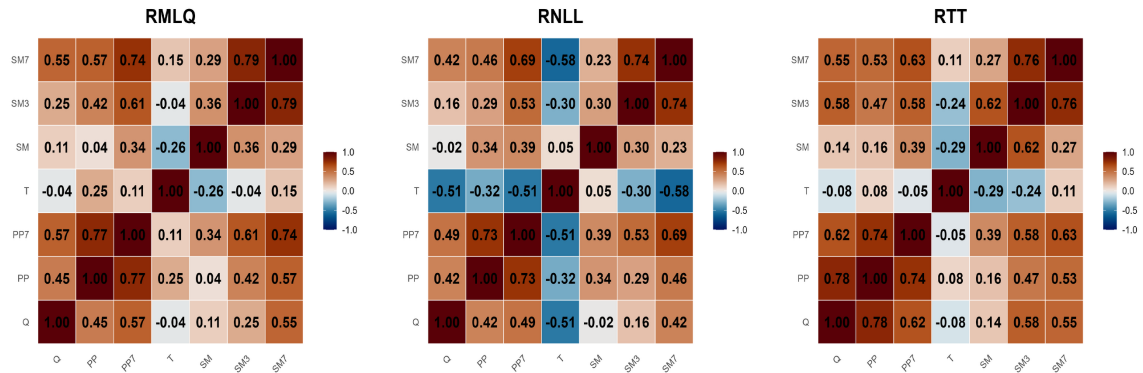


Figure S9. “Cfb (i) - Cfb” correlation matrices for all combinations of variables