

## Supporting information S8: Correlations of all indices

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	Mean offset	Median offset	Sum of offsets	Equilibrium	Offset of SDs	Mean daily offset of SDs	Amplitude offset (5%)	Amplitude offset (2.5%)	Mean daily amplitude offset	Amplitude ratio (5%)	Amplitude ratio (2.5%)	CV offset	Mean daily CV offset	CV ratio	Slope	Change ratio	Correlation	Offset of maxima (97.5%)	Offset of maxima (100%)	Mean daily offset of maxima	p95 of daily offset of maxima	Offset of minima (97.5%)	Offset of minima (100%)	Mean daily offset of minima	p5 of daily offset of minima		
Mean offset	1.00																										
Median offset	1.00	1.00																									
Sum of offsets	0.93	0.93	1.00																								
Equilibrium	?	?	?	1.00																							
Offset of SDs	0.00	-0.01	0.00	?	1.00																						
Mean daily offset of SDs	0.00	-0.01	0.00	?	0.98	1.00																					
Amplitude offset (5%)	0.00	-0.01	0.00	?	0.89	0.93	1.00																				
Amplitude offset (2.5%)	0.00	-0.01	0.00	?	0.93	0.96	0.87	1.00																			
Mean daily amplitude offset	0.00	-0.01	0.00	?	0.93	0.96	0.96	0.93	1.00																		
Amplitude ratio (5%)	0.00	-0.01	0.00	?	0.81	0.84	0.87	0.75	0.83	1.00																	
Amplitude ratio (2.5%)	0.00	-0.01	0.00	?	0.86	0.88	0.79	0.84	0.83	0.93	1.00																
CV offset	0.59	0.59	0.50	?	-0.29	-0.28	-0.24	-0.22	-0.25	-0.47	-0.47	1.00															
Mean daily CV offset	?	?	?	?	?	?	?	?	?	?	?	?	1.00														
CV ratio	0.74	0.75	0.79	?	-0.21	-0.21	-0.18	-0.18	-0.19	-0.23	-0.24	0.54	?	1.00													
Slope	0.00	-0.01	0.00	?	0.87	0.85	0.74	0.75	0.77	0.90	0.94	-0.51	?	-0.25	1.00												
Change ratio	0.00	-0.01	0.00	?	0.83	0.86	0.93	0.82	0.91	0.93	0.85	-0.34	?	-0.20	0.81	1.00											
Correlation	0.00	0.00	0.00	?	0.25	0.21	0.18	0.17	0.21	0.21	0.22	-0.20	?	-0.11	0.36	0.22	1.00										
Offset of maxima (97.5%)	0.95	0.94	0.88	?	0.30	0.31	0.28	0.32	0.30	0.24	0.27	0.48	?	0.64	0.24	0.26	0.06	1.00									
Offset of maxima (100%)	0.72	0.71	0.67	?	0.52	0.53	0.39	0.60	0.48	0.34	0.50	0.31	?	0.44	0.42	0.38	0.09	0.88	1.00								
Mean daily offset of maxima (97.5%)	0.98	0.98	0.91	?	0.18	0.19	0.19	0.19	0.20	0.17	0.17	0.52	?	0.69	0.16	0.18	0.04	0.99	0.80	1.00							
Mean daily offset of maxima (100%)	0.98	0.98	0.91	?	0.19	0.20	0.20	0.19	0.21	0.18	0.18	0.52	?	0.69	0.16	0.19	0.04	0.99	0.81	1.00	1.00						
p95 of daily offset of maxima	0.94	0.94	0.87	?	0.27	0.28	0.25	0.28	0.26	0.21	0.24	0.48	?	0.65	0.21	0.23	0.00	0.98	0.85	0.98	0.98	1.00					
Offset of minima (2.5%)	0.96	0.96	0.89	?	-0.25	-0.26	-0.24	-0.27	-0.25	-0.20	-0.22	0.62	?	0.76	-0.20	-0.22	-0.04	0.82	0.53	0.89	0.89	0.83	1.00				
Offset of minima (0%)	0.61	0.62	0.57	?	-0.58	-0.50	-0.31	-0.48	-0.40	-0.29	-0.42	0.52	?	0.58	-0.53	-0.31	-0.30	0.43	0.09	0.52	0.52	0.44	0.72	1.00			
Mean daily offset of minima (2.5%)	0.98	0.98	0.91	?	-0.17	-0.18	-0.18	-0.17	-0.19	-0.15	-0.15	0.62	?	0.76	-0.14	-0.17	-0.04	0.87	0.62	0.93	0.92	0.88	0.99	0.68	1.00		
Mean daily offset of minima (0%)	0.98	0.98	0.91	?	-0.18	-0.18	-0.19	-0.18	-0.19	-0.16	-0.16	0.62	?	0.77	-0.15	-0.18	-0.04	0.87	0.62	0.92	0.92	0.88	0.99	0.68	1.00		
p5 of daily offset of minima	0.96	0.96	0.89	?	-0.23	-0.24	-0.22	-0.23	-0.23	-0.18	-0.20	0.62	?	0.76	-0.18	-0.20	0.00	0.83	0.56	0.90	0.89	0.82	0.99	0.69	0.99	0.99	1.00

Correlations of all indices. For the indices equilibrium and mean daily CV ratio no correlation could be calculated because variation in the index was near zero (for equilibrium) or missing and infinite values were produced systematically (for mean daily CV ratio).