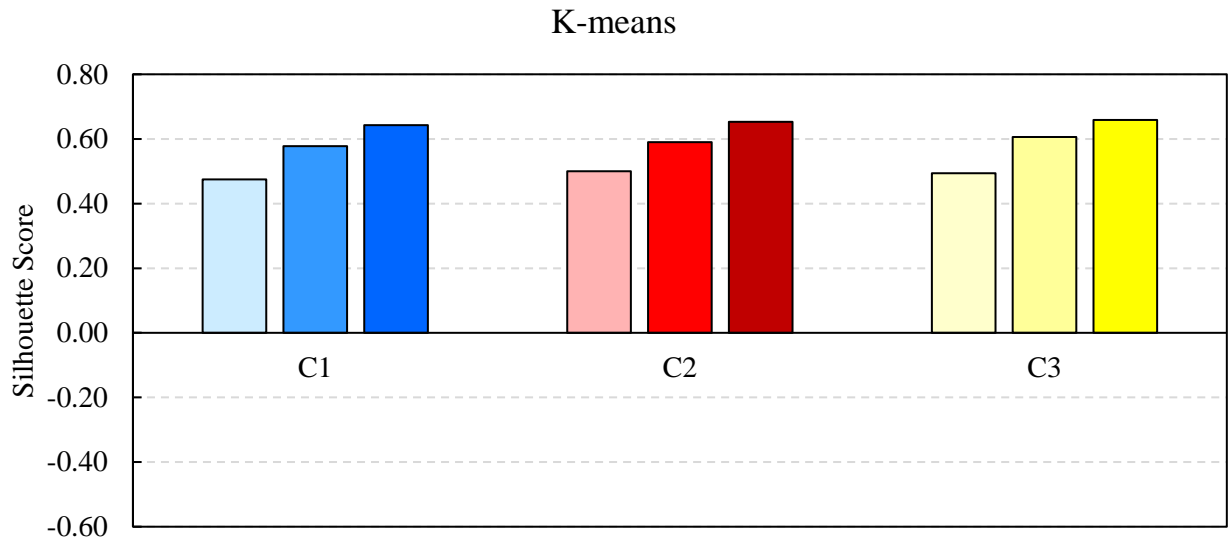
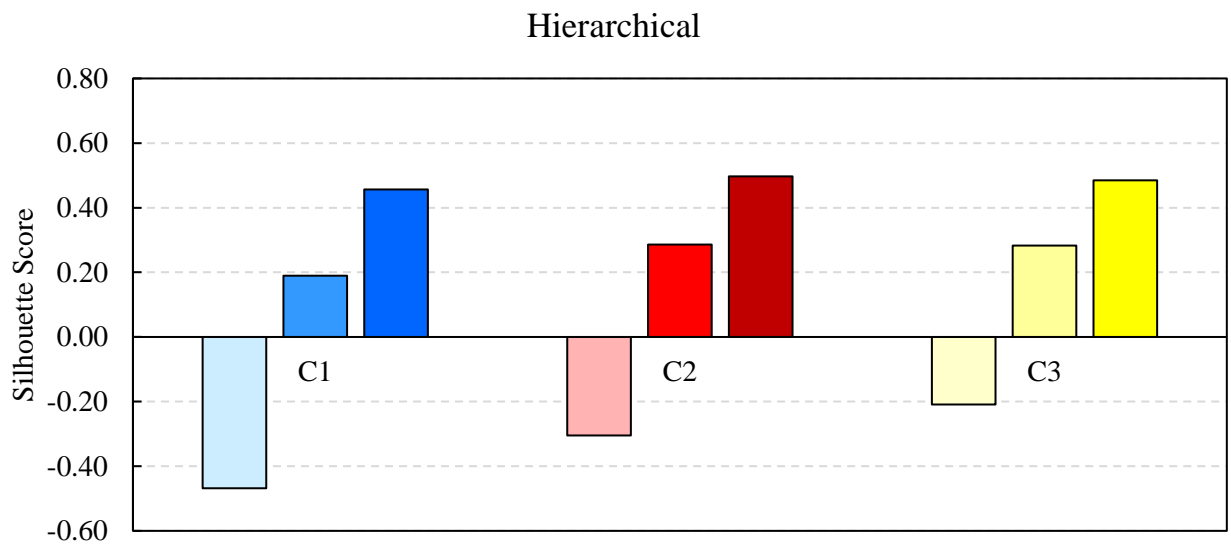


Table S3. Maximum, maximum, minimum values, and standard deviation of the correlations calculated between SPEI-12 gridded data and climatic indices. The color bar ranges from red (negative correlations) to blue (positive correlations) and from green (lower standard deviation) to yellow (higher standard deviation).

Correlation coefficient (r)	Mean	Max	Min	Dev.st
AMM	0.12	0.39	-0.34	0.11
AMO	0.06	0.40	-0.59	0.16
AO	-0.02	0.15	-0.15	0.04
BEST	-0.11	0.09	-0.26	0.06
CAR	-0.07	0.25	-0.61	0.14
EPO	0.00	0.11	-0.11	0.04
GBI	0.00	0.05	-0.08	0.02
GMT	-0.33	0.01	-0.76	0.11
IPWP	-0.39	-0.08	-0.71	0.10
NAO	-0.03	0.08	-0.12	0.04
NAO (Jones)	0.03	0.13	-0.06	0.03
Niño-1.2	-0.07	0.02	-0.14	0.03
Niño-3	-0.11	0.04	-0.21	0.04
Niño-3.4	-0.12	0.07	-0.28	0.05
Niño-4	-0.20	0.00	-0.37	0.06
NOI	0.08	0.20	-0.11	0.05
NP	0.05	0.10	-0.03	0.02
NTA	-0.15	0.18	-0.61	0.11
ONI	-0.06	0.15	-0.26	0.06
PDO	-0.23	0.10	-0.42	0.09
PMM	-0.01	0.16	-0.21	0.05
PNA	-0.07	0.03	-0.19	0.03
QBO	-0.02	0.14	-0.19	0.06
Sahel P	0.22	0.35	-0.06	0.06
SOI	0.10	0.24	-0.08	0.06
Solar Flux	0.05	0.26	-0.22	0.07
TNA	-0.07	0.23	-0.55	0.12
TNI	0.15	0.30	-0.04	0.05
TSA	-0.33	-0.05	-0.54	0.08
WHWP	-0.16	0.07	-0.49	0.09
WPI	0.00	0.10	-0.08	0.03



(a)



(b)

Figure S1. Minimum, mean and maximum Silhouette Score for: K-means (a); Hierarchical (b).