Table S2: Best models for 1950 and 2014 with climatic variables (BIO), principal components (PC) and geostatistical term (*W*)

Models[1]		WAIC[2]
1950		
Climatic + spatial	$1 + BIO_5 + BIO_{12} + W$	126.14
Climatic	$1 + BIO_5 + BIO_{12}$	177.51
	$1 + BIO_5 + BIO_{12} + BIO_9 + BIO_{19} + ADD$	178.07
	$1 + BIO_{12} + BIO_9 + BIO_{19} + ADD$	178.26
	$1 + BIO_5 + BIO_{12} + BIO_{19}$	178.85
	$1 + BIO_6 + BIO_{12} + BIO_9 + BIO_{19} + ADD$	178.93
	$1 + BIO_5 + BIO_{12} + BIO_9$	178.95
	$1 + BIO_5 + BIO_{12} + ADD$	179.01
	$1 + BIO_5 + BIO_6 + BIO_{12} + BIO_9 + BIO_{19} + ADD$	179.57
	$1 + BIO_5 + BIO_6 + BIO_{12}$	179.61
	$1 + BIO_{12} + ADD$	179.73
PC + spatial	$1 + PC_1 + PC_2 + PC_3 + W$	131.26
PC	$1 + PC_1 + PC_2 + PC_3$	198.19
	$1 + PC_1 + PC_2$	202.2
	$1 + PC_2 + PC_3$	202.44
	$1 + PC_2$	208.52
	$1 + PC_1 + PC_3$	235.49
	$1 + PC_1$	236.56
	$1 + PC_3$	244.15
	1	245.06
2014		
Climatic	$1 + BIO_5 + BIO_{19} + ADD$	49.57
	$1 + BIO_5 + BIO_6 + BIO_{19} + ADD$	52.23
	$1 + BIO_6 + BIO_9 + BIO_{12} + BIO_{19} + ADD$	63.77
	$1 + BIO_6 + BIO_{12} + BIO_{19} + ADD$	65.68
	$1 + BIO_5 + BIO_6 + BIO_{19}$	70.11
	$1 + BIO_6 + BIO_{12} + BIO_{19}$	70.52
	$1 + BIO_6 + BIO_9 + BIO_{12} + BIO_{19}$	72.1
	$1 + BIO_5 + BIO_6 + BIO_9 + ADD$	72.79
	$1 + BIO_5 + BIO_6 + BIO_9 + BIO_{12} + ADD$	73.67
	$1 + BIO_5 + BIO_6 + ADD$	77.68
PC	$1 + PC_1 + PC_3$	100.7
	$1 + PC_1 + PC_2 + PC_3$	101.98
	$1 + PC_1 + PC_2$	439.13
	$1 + PC_1$	520.41
	$1 + PC_2 + PC_3$	892.93
	$1 + PC_3$	946.62
	$1 + PC_2$	1144.74
	1	1192.49

[1]Maximum temperature of warmest month (BIO_5), minimum temperature of coldest month (BIO_6), mean temperature of driest quarter (BIO_9), accumulated degrees (ADD) from July to October with T_{base} = 10ºC, annual precipitation (BIO_{12}) and precipitation of coldest quarter (BIO_{19}).

[2]Watanabe Akaike Information Criterion. Lower values of WAIC reflect a better model fit balanced with model complexity.