

Supplementary material

Table S1: Trend in the linear regression model computed from provinces' surface evolution, in km²/year. This is computed from an annual timeseries of provinces' surface (km²). From the linear regression, the percentage of variation of the provinces' surface between 1998 and 2023 is computed (in %), based on the difference between the first and last point of the regression (respectively matching 1998 and 2023). The last column shows the coefficients of determination (R²) of each linear regression model.

Biome	Province	Trend in provinces' surface (km ² /year)	Variation (% of evolution of provinces' surface between 1998 and 2023)	R ²
1	101	+1,16E+04	+1,545	0,011
	102	+2,59E+04	+0,986	0,019
	103	+7,37E+04	+8,822	0,367
2	201	+4,33E+04	+14,202	0,498
	202	+3,31E+03	+0,661	0,004
	203	+1,88E+05	+18,948	0,490
3	204	-2,21E+04	-3,933	0,109
	205	-1,11E+04	-2,308	0,011
	301	-2,39E+04	-44,440	0,708
	302	-5,07E+03	-19,073	0,121
	303	-6,03E+02	-3,540	0,002
	304	-9,81E+03	-31,185	0,480
	305	+7,99E+03	+123,472	0,248
	306	+2,31E+03	+27,405	0,029
	307	-1,46E+04	-43,604	0,417
	401	-2,22E+04	-15,279	0,248
4	402	+6,94E+03	+2,911	0,010
	403	-4,21E+03	-0,494	0,000
	404	-3,86E+04	-32,347	0,447
	405	-1,05E+05	-31,875	0,470
	406	-6,37E+03	-2,856	0,009
	501	-1,43E+04	-8,180	0,099
5	502	-4,10E+04	-11,861	0,207
	503	+1,00E+05	+7,211	0,587
6	601	-1,39E+05	-12,344	0,690
	602	-6,63E+03	-10,389	0,064
	603	+1,50E+03	+0,579	0,021

Table S2: Trend in the linear regression model computed from provinces' average latitude evolution, in degree poleward/year. This is computed from an annual time series of provinces' average latitude. From the linear regression, the variation of the provinces' average latitude between 1998 and 2023 is computed (in degree poleward), based on the difference between the first and last point of the regression (respectively matching 1998 and 2023). The last column shows the coefficients of determination (R^2) of the linear regression models.

Biome	Province	Trend in the provinces' average latitude evolution (degree poleward/year)	Variation of the provinces' average latitude between 1998 and 2023 (degree poleward)	R^2
1	101	-	-	-
	102	-	-	-
	103	-	-	-
2	201	-0,057	-1,415	0,424
	202	-0,041	-1,021	0,312
	203	-0,084	-2,106	0,393
	204	0,044	1,112	0,583
	205	-0,014	-0,352	0,074
3	301	0,055	1,376	0,078
	302	0,109	2,724	0,216
	303	-0,035	-0,883	0,009
	304	0,220	5,492	0,306
	305	0,061	1,533	0,111
	306	0,190	4,741	0,272
	307	-0,245	-6,131	0,405
4	401	0,075	1,868	0,264
	402	0,056	1,393	0,161
	403	0,022	0,546	0,301
	404	0,069	1,714	0,128
	405	0,244	6,097	0,447
	406	0,054	1,341	0,331
5	501	0,038	0,961	0,146
	502	0,013	0,322	0,056
	503	0,048	1,190	0,726
6	601	0,014	0,338	0,110
	602	0,004	0,091	0,002
	603	-0,003	-0,072	0,101