

Supplementary Table 2: Detailed analysis results

Analysis	N sites	N. Globals	Median population density Sites	Median population density Globals	Threshold CI 0.025	Threshold CI 0.25	Threshold CI 0.5	Threshold CI 0.75	Threshold CI 0.975	Log Likelihood	AIC	Bayes Factor (w.r.t. proportional model)	Bayes Factor (w.r.t. Constant model)
Eriksson no equatorials	119	9769332	29.92	15.31	6.67	11.16	13.18	14.80	17.00	-1403	2811	1.62E+05	2.00E+27
Eriksson no equatorials exact direct	55	9769332	30.25	15.31	7.95	11.69	14.50	15.98	17.89	-679	1365	2.23E+05	3.43E+17
Timmermann no equatorials	97	213207	25.02	18.04	13.80	16.73	18.50	20.36	22.15	-823	1652	4.33E+06	7.60E+08
Timmermann no equatorials exact direct	46	213207	25.00	18.04	0.85	10.92	15.14	18.66	22.86	-424	854	4.34E+01	2.58E+04
Australia	56	1223500	30.25	21.50	13.22	19.22	27.08	28.07	28.99	-592	1190	2.64E+04	1.67E+10
France-Spain	31	240461	28.23	26.60	0.11	6.31	14.10	18.52	32.73	-303	612	1.93E+01	2.44E+02
0-9999 ya	74	2672852	30.36	19.92	9.41	13.63	15.51	16.89	18.93	-819	1644	7.91E+03	4.74E+13
10000-46000ya	45	7096480	27.19	13.66	1.07	4.26	5.87	7.74	14.14	-559	1124	8.00E+01	4.95E+10