

Appendix S4. BioGeoBEARS area: details regarding model development, temporal stratification, and dispersal probabilities among the geographical regions through time for BioGeoBEARS analyses of *Salvia*. See Appendix S2 for species coding.

Time periods file

5
15
37

Areas allowed file: S=South America, N=North America, M=Mediterranean, W=southwest Asia, R=northeast Africa/Arabia, A=south Africa, C=east Asia

S	N	M	W	R	A	C
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

S	N	M	W	R	A	C
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

S	N	M	W	R	A	C
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1
1	1	1	1	1	1	1

END

Manual dispersal probabilities file: S=South America, N=North America, M=Mediterranean, W=southwest Asia, R=northeast Africa/Arabia, A=south Africa, C=east Asia

S	N	M	W	R	A	C
1	1	0.1	0.1	0.1	0.1	0.1
1	1	0.1	0.1	0.1	0.1	0.1
0.1	0.1	1	1	1	0.3	0.5
0.1	0.1	1	1	1	0.3	1
0.1	0.1	1	1	1	0.3	1
0.1	0.1	0.3	0.3	0.3	1	0.3
0.1	0.1	0.5	1	1	0.3	1

S	N	M	W	R	A	C
1	0.5	0.1	0.1	0.1	0.1	0.1
0.5	1	0.5	0.1	0.1	0.1	0.5
0.1	0.5	1	1	1	0.3	0.5
0.1	0.1	1	1	1	0.3	1
0.1	0.1	1	1	1	0.3	1
0.1	0.1	0.3	0.3	0.3	1	0.3
0.1	0.5	0.5	1	1	0.3	1

S	N	M	W	R	A	C
1	0.3	0.1	0.1	0.1	0.1	0.1
0.3	1	0.7	0.3	0.3	0.1	0.7
0.1	0.7	1	1	1	0.1	0.5
0.1	0.3	1	1	1	0.1	1
0.1	0.3	1	1	1	0.1	1
0.1	0.1	0.1	0.1	0.1	1	0.1
0.1	0.7	0.5	1	1	0.1	1

END