Table S4: BioGeoBEARS dispersal sinks and sources

Number of dispersal (range expansion, e; jump dispersal, *j*) events for the three time slices (see Figure 3; 80 Ma, 40 Ma, 20 Ma and 0 Ma) from the DEC+TS+j model (see Table 3). Counts of events were averaged across the 100 biogeographic stochastic mappings (BSMs) with standard deviations in parentheses. Rows represent source ranges; columns represent dispersal sinks. Darker shades indicate a higher frequency of dispersal events. The sum and percent of events in each row and column are given on the margins. Regions are abbreviated as follows: A = Andean-Argentinian, B = Neotropical, C = Southern Africa, D = African, E = Madagascan, F = Northern Australia, G = Malesian, H = Indian-Indochinese, I = Neozealandic-Patagonian and J = Eurasiatic.

TS1 (**80-40 Ma**): ALL dispersal (mean of all observed anagenetic 'a', 'd' and cladogenetic 'j' dispersals):

	A	В	\mathbf{C}	D	${f E}$	\mathbf{F}	G	H	I	J	
\mathbf{A}	-	0	0	0	0	0	0.01	0	0.03	0	0.04
		(0)	(0)	(0)	(0)	(0)	(0.1)	(0)	(0.17)	(0)	1%
В	0	-	0	0.04	0	0.02	0	0	0	0	0.06
	(0)		(0)	(0.2)	(0)	(0.2)	(0)	(0)	(0)	(0)	1.5%
\mathbf{C}	0	0.03	-	0	0.01	0	0.01	0	0	0	0.05
	(0)	(0.17)		(0)	(0.1)	(0)	(0.1)	(0)	(0)	(0)	1.3%
D	0	0.12	0.02	-	0.03	0	0.02	0	0	0	0.19
	(0)	(0.36)	(0.14)		(0.17)	(0)	(0.14)	(0)	(0)	(0)	4.8%
\mathbf{E}	0	0.02	0.01	0	-	0.02	0.15	0	0	0	0.20
	(0)	(0.14)	(0.1)	(0)		(0.14)	(0.36)	(0)	(0)	(0)	5%
F	0.03	0.02	0	0.02	0.07	-	0.49	0	0.53	0	1.16
	(0.17)	(0.14)	(0)	(0.14)	(0.26)		(0.64)	(0)	(0.64)	(0)	29%
G	0.34	0.06	0.11	0.29	0.43	0.65	-	0.01	0.05	0	1.94
	(0.5)	(0.24)	(0.31)	(0.48)	(0.54)	(0.73)		(0.1)	(0.22)	(0)	48.5%
H	0	0	0	0	0	0	0	-	0	0	0
	(0)	(0)	(0)	(0)	(0)	(0)	(0)		(0)	(0)	0%
I	0.09	0	0	0.01	0.02	0.21	0.02	0.01	-	0	0.36
	(0.29)	(0)	(0)	(0.1)	(0.14)	(0.48)	(0.14)	(0.1)		(0)	9%
J	0	0	0	0	0	0	0	0	0	-	0
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	i	0%
	0.46	0.25	0.14	0.36	0.56	0.9	0.7	0.02	0.61	0	4
	11.5%	6.3%	3.5%	9%	14%	22.5%	17.5%	0.5%	15.3%	0%	100%

TS2 (**40-20 Ma**):ALL dispersal (mean of all observed anagenetic 'a', 'd' and cladogenetic 'j' dispersals):

	A	В	C	D	\mathbf{E}	\mathbf{F}	\mathbf{G}	H	I	J	
A	-	0.55	0	0.01	0	0	0	0.18	0.39	0	1.13
		(0.56)	(0)	(0.1)	(0)	(0)	(0)	(0.39)	(0.51)	(0)	10.7%
В	0.1	-	0	0.05	0	0	0.06	0.6	0	0	0.81
	(0.3)		(0)	(0.26)	(0)	(0)	(0.24)	(0.49)	(0)	(0)	7.7%
C	0	0.01	-	0.08	0.09	0	0	0	0	0	0.18
	(0)	(0.1)		(0.27)	(0.29)	(0)	(0)	(0)	(0)	(0)	1.7%
D	0	0.03	0.26	-	0.96	0.03	0	0	0.03	0	1.31
	(0)	(0.17)	(0.44)		(0.72)	(0.17)	(0)	(0)	(0.17)	(0)	12.4%
\mathbf{E}	0	0	0.06	0.78	-	0.03	0.05	0	0.03	0	0.95
	(0)	(0)	(0.24)	(0.64)		(0.17)	(0.22)	(0)	(0.17)	(0)	9%
\mathbf{F}	0.01	0.01	0	0.43	0.27	-	0.91	0	0.8	0	2.43
	(0.1)	(0.1)	(0)	(0.52)	(0.45)		(0.51)	(0)	(0.72)	(0)	23.1%
\mathbf{G}	0.01	0.7	0	0.04	0.3	0.28	-	0.49	0.03	0.03	1.88
	(0.1)	(0.48)	(0)	(0.2)	(0.46)	(0.55)		(0.59)	(0.17)	(0.17)	17.9%
H	0	0.07	0	0	0.01	0	0.04	-	0	0	0.12
	(0)	(0.26)	(0)	(0)	(0.1)	(0)	(0.2)		(0)	(0)	1.1%
I	1.09	0.21	0	0.05	0.06	0.21	0.04	0.05	-	0	1.71
	(0.74)	(0.41)	(0)	(0.22)	(0.24)	(0.43)	(0.2)	(0.22)		(0)	%
J	0	0	0	0	0	0	0	0.01	0	-	0.01
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0.1)	(0)	-	16.2%
	1.21	1.58	0.32	1.44	1.69	0.55	1.1	1.33	1.28	0.03	10.53
	11.5%	15%	3%	13.7%	16%	5.2%	12.6%	12.6%	12.2%	0.3%	100%

TS1 (**20-0 Ma**): ALL dispersal (mean of all observed anagenetic 'a', 'd' and cladogenetic 'j' dispersals):

1	\mathbf{A}	В	C	D	\mathbf{E}	\mathbf{F}	\mathbf{G}	H	Ι	J	
A	-	0.91	0	0	0	0	0	0.01	0.05	0	0.97
		(0.88)	(0)	(0)	(0)	(0)	(0)	(0.1)	(0.22)	(0)	4.5%
В	4.35	-	0	0	0	0	0	0.14	0	0	4.49
	(1.07)		(0)	(0)	(0)	(0)	(0)	(0.35)	(0)	(0)	20.6%
C	0	0	-	0.54	0	0	0	0	0	0	0.54
	(0)	(0)		(0.86)	(0)	(0)	(0)	(0)	(0)	(0)	2.5%
D	0	0	2.18	-	0	0	0	0	0	0	2.18
	(0)	(0)	(0.95)		(0)	(0)	(0)	(0)	(0)	(0)	10%
\mathbf{E}	0	0	0	0	-	0	0	0	0	0	0
	(0)	(0)	(0)	(0)		(0)	(0)	(0)	(0)	(0)	0%
\mathbf{F}	0	0	0	0	0	-	0.95	0.1	0.92	0	1.97
	(0)	(0)	(0)	(0)	(0)		(0.44)	(0.33)	(0.61)	(0)	9.1%
\mathbf{G}	0	0	0	0	0	1.11	-	5.77	0	0.01	6.89
	(0)	(0)	(0)	(0)	(0)	(0.78)		(1.35)	(0)	(0.1)	31.7%
H	0	0.18	0	0	0	0.19	3.02	-	0	0.96	4.35
	(0)	(0.44)	(0)	(0)	(0)	(0.39)	(1.26)		(0)	(0.2)	20%
I	0.09	0	0	0	0	0.24	0	0	-	0	0.33
	(0.29)	(0)	(0)	(0)	(0)	(0.43)	(0)	(0)		(0)	1.5%
J	0	0	0	0	0	0	0	0.04	0	-	0.04
	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0.2)	(0)	1	0%
	4.44	1.09	2.18	0.54	0	1.54	3.97	6.06	0.97	0.97	21.76
	20.4%	5%	10%	2.5%	0%	7.1%	18.2%	27.9%	4.5%	4.5%	100%