

**File S2:** Output of the evaluation of four biogeographic models with BioGeoBEARS implemented in RASP4.

#Results of Model Test#

Model	LnL	numparams	d	e	j	AICc	AICc_wt
DEC	-554.8	2	0.025	1.0e-12	0	1114	3.2e-36
DEC+J	-554.7	3	0.025	1.0e-12	0.0003	1116	1.2e-36
DIVALIKE	-604.2	2	0.030	1.0e-12	0	1213	1.0e-57
DIVALIKE+J	-603.8	3	0.029	1.0e-12	0.0011	1214	5.5e-58