

Ecography

ECOG-01566

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Supplementary material

Appendix 1

Table A1 Lists of megafaunal genera included in the analyses, listed by geographic region in which they are or were present.

Region	Genus	Status	Upper Extinction Bound	Lower Extinction Bound	Reference
Africa	Acinonyx	Extant	NA	NA	
Africa	Addax	Extant	NA	NA	
Africa	Aepyceros	Extant	NA	NA	
Africa	Alcelaphus	Extant	NA	NA	
Africa	Ammotragus	Extant	NA	NA	
Africa	Beatragus	Extant	NA	NA	
Africa	Camelus	Extant	NA	NA	
Africa	Cephalophus	Extant	NA	NA	
Africa	Ceratotherium	Extant	NA	NA	
Africa	Cervus	Extant	NA	NA	
Africa	Connochaetes	Extant	NA	NA	
Africa	Crocuta	Extant	NA	NA	
Africa	Damaliscus	Extant	NA	NA	
Africa	Diceros	Extant	NA	NA	
Africa	Elephas	Extinct	100000	0	(Barnosky et al. 2004)
Africa	Equus	Extant	NA	NA	
Africa	Eudorcas	Extant	NA	NA	
Africa	Gazella	Extant	NA	NA	
Africa	Geochelone	Extant	NA	NA	
Africa	Giraffa	Extant	NA	NA	
Africa	Gorilla	Extant	NA	NA	
Africa	Hippopotamus	Extant	NA	NA	
Africa	Hippotragus	Extant	NA	NA	
Africa	Hyaena	Extant	NA	NA	
Africa	Hylochoerus	Extant	NA	NA	
Africa	Kobus	Extant	NA	NA	
Africa	Litocranius	Extant	NA	NA	
Africa	Loxodonta	Extant	NA	NA	
Africa	Mandrillus	Extant	NA	NA	
Africa	Megalotragus	Extinct	6040	5900	(Turvey 2009)
Africa	Metridiochoerus	Extinct	12000	9500	(Martin and Klein 1984)
Africa	Nanger	Extant	NA	NA	
Africa	Okapia	Extant	NA	NA	
Africa	Orycteropus	Extant	NA	NA	
Africa	Oryx	Extant	NA	NA	
Africa	Pan	Extant	NA	NA	
Africa	Panthera	Extant	NA	NA	
Africa	Papio	Extant	NA	NA	
Africa	Parmularius	Extinct	NA	NA	
Africa	Pelorovis	Extinct	5010	4420	(Turvey 2009)
Africa	Phacochoerus	Extant	NA	NA	

Africa	Potamochoerus	Extant	NA	NA	
Africa	Python	Extant	NA	NA	
Africa	Redunca	Extant	NA	NA	
Africa	Stigmochelys	Extant	NA	NA	
Africa	Struthio	Extant	NA	NA	
Africa	Syncerus	Extant	NA	NA	
Africa	Taurotragus	Extant	NA	NA	
Africa	Tragelaphus	Extant	NA	NA	
Africa	Ursus	Extinct	1000	0	IUCN
New Guinea	Casuarus	Extant	NA	NA	
New Guinea	Hulitherium	Extinct	44765	40529	(Williams et al. 1972)
New Guinea	Kolopsis	Extinct	NA	NA	
New Guinea	Maokopia	Extinct	18000	14000	(Roberts et al. 2001)
New Guinea	Protemnodon	Extinct	18000	14000	(Roberts et al. 2001)
Australia	Casuarus	Extant	NA	NA	
Australia	Diprotodon	Extinct	27757	27757	(Gorecki et al. 1984)
Australia	Dromaius	Extant	NA	NA	
Australia	Euowenia	Extinct	NA	NA	
Australia	Genyornis	Extinct	40554	38414	(Miller et al. 2005)
Australia	Lasiorhinus	Extant	NA	NA	(Barnosky et al. 2004)
Australia	Macropus	Extant	NA	NA	
Australia	Megalania / Varanus	Extinct	26000	19000	(Gould and MacFadden 2004)
Australia	Meiolania	Extinct	50000	13000	(Barnosky et al. 2004)
Australia	Nototherium	Extinct	100000	0	(Barnosky et al. 2004)
Australia	Palorchestes	Extinct	46000	38000	(Roberts et al. 2001)
Australia	Phascolonus	Extinct	46000	38000	(Roberts et al. 2001)
Australia	Procoptodon	Extinct	27757	27757	(Gorecki et al. 1984)
Australia	Protemnodon	Extinct	27757	27757	(Gorecki et al. 1984)
Australia	Quinkana	Extinct	50000	13000	(Barnosky et al. 2004)
Australia	Ramsayia	Extinct	100000	0	
Australia	Simosthenurus	Extinct	32658	32658	(Flood 1974)
Australia	Sthenurus	Extinct	27757	27757	(Gorecki et al. 1984)
Australia	Thylacoleo	Extinct	46000	38000	(Roberts et al. 2001)
Australia	Wonambi	Extinct	64000	46000	(Roberts et al. 2001)
Australia	Zygomaturus	Extinct	64000	46000	(Roberts et al. 2001)
Tasmania	Dromaius	Extant	NA	NA	
Tasmania	Macropus	Extant	NA	NA	
Tasmania	Palorchestes	Extinct	41581	41011	(Gillespie et al. 2012)
Tasmania	Protemnodon	Extinct	42582	41860	(Gillespie <i>et al.</i> 2012)
Tasmania	Simosthenurus	Extinct	16463	14991	(Goede and Bada 1985)
Tasmania	Thylacoleo	Extinct	56400	55600	(Turney et al. 2008)
Tasmania	Zygomaturus	Extinct	40552	38926	(Gillespie et al. 2012)
Indo-Malaya	Acinonyx	Extant	NA	NA	
Indo-Malaya	Antilope	Extant	NA	NA	
Indo-Malaya	Babyrousa	Extant	NA	NA	
Indo-Malaya	Bos	Extant	NA	NA	
Indo-Malaya	Boselephas	Extant	NA	NA	

Indo-Malaya	Bubalus	Extant	NA	NA	(Turvey 2009)
Indo-Malaya	Canis	Extant	NA	NA	
Indo-Malaya	Capricornis	Extant	NA	NA	
Indo-Malaya	Cervus	Extant	NA	NA	
Indo-Malaya	Coelodonta	Extinct	3720	3540	
Indo-Malaya	Crocota	Extinct	8200	7430	(Turvey 2009)
Indo-Malaya	Dicerorhinus	Extant	NA	NA	(Turvey 2009)
Indo-Malaya	Elaphodus	Extant	NA	NA	
Indo-Malaya	Elephas	Extant	NA	NA	
Indo-Malaya	Equus	Extant	NA	NA	
Indo-Malaya	Helarctos	Extant	NA	NA	
Indo-Malaya	Hexaprotodon	Extinct	NA	NA	
Indo-Malaya	Hyaena	Extant	NA	NA	
Indo-Malaya	Hyelephas	Extant	NA	NA	
Indo-Malaya	Megatapirus	Extinct	4235	NA	
Indo-Malaya	Melursus	Extant	NA	NA	(Turvey 2009)
Indo-Malaya	Muntiacus	Extant	NA	NA	
Indo-Malaya	Naemorhadus	Extant	NA	NA	
Indo-Malaya	Nilgiritragus	Extant	NA	NA	
Indo-Malaya	Panthera	Extant	NA	NA	
Indo-Malaya	Pongo	Extant	NA	NA	
Indo-Malaya	Pseudoryx	Extant	NA	NA	
Indo-Malaya	Rhinoceros	Extant	NA	NA	
Indo-Malaya	Rusa	Extant	NA	NA	
Indo-Malaya	Stegadon	Extinct	4100	NA	
Indo-Malaya	Sus	Extant	NA	NA	(Turvey 2009)
Indo-Malaya	Tapirus	Extant	NA	NA	
Indo-Malaya	Ursus	Extant	NA	NA	
Japan	Canis	Extant	NA	NA	
Japan	Capricornis	Extant	NA	NA	
Japan	Cervus	Extant	NA	NA	
Japan	Elephas	Extinct	19493	18695	(Martin and Wright 1967)
Japan	Equus	Extinct	34441	31333	(Martin and Wright 1967)
Japan	Loxodonta	Extinct	19493	18695	(Martin and Wright 1967)
Japan	Megaceros	Extinct	19397	18581	(Martin and Wright 1967)
Japan	Ursus	Extant	NA	NA	
Madagascar	Aepyornis	Extinct	877	711	(Crowley 2010)
Madagascar	Archaeoindris	Extinct	2347	2199	(Crowley 2010)
Madagascar	Dipsochelys / Aldabrachelys	Extinct	1100	400	(Austin et al. 2003)
Madagascar	Geochelone	Extinct	1074	386	(Crowley 2010)
Madagascar	Hippopotamus	Extinct	1126	748	(Crowley 2010)
Madagascar	Megaladapis	Extinct	652	570	(Crowley 2010)
Madagascar	Mullerornis	Extinct	1269	1133	(Crowley 2010)
Madagascar	Palaeopropithecus	Extinct	4401	4289	(Crowley 2010)
Canada & Alaska	Alces	Extant	NA	NA	
Canada &	Arctodus	Extinct	24446	23866	(Harington 2001)

Alaska					
Canada & Alaska	Bison	Extant	NA	NA	
Canada & Alaska	Bootherium	Extinct	35087	34425	(Hills and Wilson 2003)
Canada & Alaska	Camelops	Extinct	28973	27095	(Harington 2001)
Canada & Alaska	Canis	Extant	NA	NA	
Canada & Alaska	Cervus	Extant	NA	NA	
Canada & Alaska	Equus	Extinct	12918	12756	(Harington 2001)
Canada & Alaska	Homotherium	Extinct	48817	45221	(Harington 2001)
Canada & Alaska	Mammut	Extinct	10179	9757	(Harington 2001)
Canada & Alaska	Mammuthus	Extinct	9385	9167	(Harington 2001)
Canada & Alaska	Odocoileus	Extant	NA	NA	
Canada & Alaska	Oreamnos	Extant	NA	NA	
Canada & Alaska	Ovibos	Extant	NA	NA	
Canada & Alaska	Ovis	Extant	NA	NA	
Canada & Alaska	Panthera	Extinct	27811	26847	(Harington 2001)
Canada & Alaska	Puma	Extant	NA	NA	
Canada & Alaska	Rangifer	Extant	NA	NA	(Harington 2001)
Canada & Alaska	Saiga	Extinct	14663	14001	(Harington 2001)
Canada & Alaska	Torontoceros	Extinct	13650	12990	(Harington 2001)
Canada & Alaska	Ursus	Extant	NA	NA	
North America	Acinonyx	Extinct	22882	19474	(Martin and Klein 1984)
North America	Alces	Extant	NA	NA	
North America	Antilocapra	Extant	NA	NA	
North America	Arctodus	Extinct	10841	11127	(Soibelzon et al. 2005)
North America	Bison	Extant	NA	NA	
North America	Bootherium	Extinct	13016	12800	(McNeil et al. 2005)
North America	Bretzia	Extinct	11529	NA	(Morejohn et al. 2005)
North America	Camelops	Extinct	10549	8259	(Martin and Wright 1967)

North America	Canis	Extant	NA	NA	
North America	Capromeryx	Extinct	14785	13941	(Faith and Surovell 2009)
North America	Castoroides	Extinct	11132	10596	(Martin and Wright 1967)
North America	Cervacles	Extinct	10376	9670	(Funk et al. 1970)
North America	Cervus	Extant	NA	NA	
North America	Cuvieronius	Extinct	20000	10000	(Martin 2007 p. 200)
North America	Dasypus	Extinct	10000	0	(Kurtâen 1980)
North America	Equus	Extinct	10558	8250	(Martin and Wright 1967)
North America	Eremotherium	Extinct	44104	42208	(Faith and Surovell 2009)
North America	Euceratherium	Extinct	9561	8763	(Martin and Wright 1967)
North America	Glyptotherium	Extinct	28671	27129	(Faith and Surovell 2009)
North America	Hemiauchemia	Extinct	9912	9216	(Martin and Klein 1984)
North America	Holmesina	Extinct	19506	18876	(Martin and Wright 1967)
North America	Homotherium	Extinct	17584	16698	(Faith and Surovell 2009)
North America	Hydrochoreus	Extinct	20000	10000	(Webb 1974)
North America	Hydrodamalis	Extinct	14598	13644	(Faith and Surovell 2009)
North America	Mammut	Extinct	10454	10292	(Martin and Wright 1967)
North America	Mammuthus	Extinct	9218	NA	(Martin and Wright 1967)
North America	Megalonyx	Extinct	10718	10496	(Martin and Wright 1967))
North America	Miracinonyx	Extinct	18725	17437	(Faith and Surovell 2009)
North America	Mixotoxodon	Extinct	15000	NA	(MacFadden 2005)
North America	Mylohyus	Extinct	10989	10455	(Martin and Klein 1984)
North America	Navahocerus	Extinct	14374	12718	(Faith and Surovell 2009)
North America	Nechoerus	Extinct	20000	10000	(Webb 1974)
North America	Nothrotheriops	Extinct	11606	11030	(Hofreiter et al. 2000)
North America	Odocoilus	Extant	NA	NA	
North America	Oreamnos	Extant	NA	NA	
North America	Ovis	Extant	NA	NA	
North	Palaeolama	Extinct	12987	12745	(Faith and Surovell 2009)

America					
North America	Panthera	Extinct	12571	11527	(Martin and Klein 1984)
North America	Paramylodon	Extinct	16930	NA	(Martin and Wright 1967)
North America	Platygonus	Extinct	731	245	(Martin and Klein 1984)
North America	Puma	Extant	NA	NA	
North America	Sangamona	Extinct	12462	10436	(Martin and Klein 1984)
North America	Smilodon	Extinct	10989	10455	(Martin and Klein 1984)
North America	Stochoceros	Extinct	10498	9716	(Martin and Klein 1984)
North America	Tapirus	Extant	NA	NA	
North America	Tetrameryx	Extinct	15106	11622	(Martin and Wright 1967)
North America	Tremarctos	Extinct	12436	NA	(Soibelzon et al. 2005)
North America	Ursus	Extant	NA	NA	
New Zealand	Anomalopteryx	Extinct	~750	~650	(Worthy and Holdaway 2002)
New Zealand	Dinornis	Extinct	~750	~650	(Worthy and Holdaway 2002)
New Zealand	Emeus	Extinct	~750	~650	(Worthy and Holdaway 2002)
New Zealand	Euryapterix	Extinct	~750	~650	(Worthy and Holdaway 2002)
New Zealand	Megalapteryx	Extinct	~750	~650	(Worthy and Holdaway 2002)
New Zealand	Pachyornis	Extinct	~750	~650	(Worthy and Holdaway 2002)
Europe	Alces	Extant	NA	NA	
Europe	Ammotragus	Extant	NA	NA	
Europe	Bison	Extant	NA	NA	
Europe	Bos	Extant	NA	NA	
Europe	Canis	Extant	NA	NA	
Europe	Capra	Extant	NA	NA	
Europe	Cervus	Extant	NA	NA	
Europe	Coelodonta	Extinct	16961	16395	(Stuart and Lister 2007)
Europe	Crocuta	Extinct	26527	25277	(Stuart and Lister 2007)
Europe	Dama	Extant	NA	NA	
Europe	Elephas / Palaeoloxodon	Extinct	37893	36137	(Bosscha Erdbrink et al. 2001)
Europe	Equus	Extant	NA	NA	
Europe	Hippopotamus	Extinct	50000	40000	(MacPhee 1999)
Europe	Homotherium	Extinct	32586	31946	(Reumer et al. 2003)
Europe	Lynx	Extant	NA	NA	
Europe	Mammuthus	Extinct	11935	11449	(Stuart et al. 2002)
Europe	Megaloceros	Extinct	11888	11888	(Lister and Stuart 2008)
Europe	Ovibos	Extinct	NA	NA	
Europe	Ovis	Extant	NA	NA	
Europe	Panthera	Extinct	14913	14249	(Stuart and Lister 2007)
Europe	Rangifer	Extant	NA	NA	

Europe	Rupicapra	Extant	NA	NA	
Europe	Saiga	Extant	NA	NA	
Europe	Stephanorhinus	Extinct	43461	41207	(Kozłowski 1992)
Europe	Sus	Extant	NA	NA	
Europe	Ursus	Extant	NA	NA	
Siberia	Alces	Extant	NA	NA	
Siberia	Bison	Extinct	10113	9881	(MacPhee et al. 2002)
Siberia	Bos	Extant	NA	NA	
Siberia	Camelus	Extinct	28535	27585	(Germonpré and Lbova 1996)
Siberia	Canis	Extant	NA	NA	
Siberia	Capra	Extant	NA	NA	
Siberia	Capreolus	Extant	NA	NA	
Siberia	Cervus	Extant	NA	NA	
Siberia	Coelodonta	Extinct	28535	27585	(Germonpré and Lbova 1996)
Siberia	Crocota	Extinct	13000	10000	(Barnosky et al. 2004)
Siberia	Equus	Extant	NA	NA	
Siberia	Lynx	Extant	NA	NA	
Siberia	Mammuthus	Extinct	11165	10883	(Stuart et al. 2002)
Siberia	Megaloceros	Extinct	7618	7518	(Lister and Stuart 2008)
Siberia	Ovibos	Extinct	3149	2965	(MacPhee et al. 2002)
Siberia	Ovis	Extant	NA	NA	
Siberia	Panthera	Extant	NA	NA	
Siberia	Procapra	Extinct	28535	27585	(Germonpré and Lbova 1996)
Siberia	Rangifer	Extant	NA	NA	
Siberia	Rupicapra	Extant	NA	NA	
Siberia	Saiga	Extant	NA	NA	
Siberia	Spirocerus	Extinct	28535	27585	(Germonpré and Lbova 1996)
Siberia	Sus	Extant	NA	NA	
Siberia	Uncia	Extant	NA	NA	
Siberia	Ursus	Extant	NA	NA	
Central Asia	Acinonyx	Extant	NA	NA	
Central Asia	Ailuropoda	Extant	NA	NA	
Central Asia	Alces	Extant	NA	NA	
Central Asia	Bos	Extant	NA	NA	
Central Asia	Bubalus	Extinct	3240	3040	(Turvey 2009)
Central Asia	Budorcas	Extant	NA	NA	
Central Asia	Camelus	Extant	NA	NA	
Central Asia	Canis	Extant	NA	NA	
Central Asia	Capra	Extant	NA	NA	
Central Asia	Capreolus	Extant	NA	NA	
Central Asia	Cervus	Extant	NA	NA	
Central Asia	Crocota	Extinct	13000	10000	(Barnosky et al. 2004)
Central Asia	Dama	Extant	NA	NA	
Central Asia	Dicerorhinus	Extinct	12000	0	(Tong and Moigne 2000)
Central Asia	Elaphodus	Extant	NA	NA	
Central Asia	Elaphurus	Extant	NA	NA	
Central Asia	Elephas	Extant	NA	NA	
Central Asia	Equus	Extant	NA	NA	
Central Asia	Hemitragus	Extant	NA	NA	

Central Asia	Hyaena	Extant	NA	NA	
Central Asia	Lynx	Extant	NA	NA	
Central Asia	Mammuthus	Extinct	7480	7280	(Turvey 2009)
Central Asia	Nemorhaedus	Extant	NA	NA	
Central Asia	Oryx	Extant	NA	NA	
Central Asia	Ovis	Extant	NA	NA	
Central Asia	Panthera	Extant	NA	NA	
Central Asia	Procapra	Extant	NA	NA	
Central Asia	Pseudois	Extant	NA	NA	
Central Asia	Saiga	Extant	NA	NA	
Central Asia	Sus	Extant	NA	NA	
Central Asia	Tapirus	Extinct	12000	0	(Tong 2006)
Central Asia	Uncia	Extant	NA	NA	
Central Asia	Ursus	Extant	NA	NA	
South America	Agalmaceros	Extinct	12210	10810	(Pires-Ferreira et al. 1976)
South America	Arctodus	Extinct	13005	13217	(Soibelzon et al. 2005)
South America	Arctotherium	Extinct	13667	13327	(Soibelzon et al. 2005)
South America	Blastocerus	Extant	NA	NA	
South America	Canis	Extinct	17000	NA	(Dundas 1999)
South America	Catonyx	Extinct	9780	9380	(Neves et al. 2004)
South America	Charitoceros	Extinct	100000	0	(Barnosky et al. 2004)
South America	Chlamydotherium	Extinct	12000	0	(Barnosky et al. 2004)
South America	Cuvieronius	Extinct	14222	13598	(Borrero 1997)
South America	Diclopomys	Extinct	100000	0	(Barnosky et al. 2004)
South America	Doedircurus	Extinct	6715	6395	(Borrero et al. 1998)
South America	Equus	Extinct	6950	6830	(Faure et al. 1999)
South America	Eremotherium	Extinct	11390	11290	(de Fátima Rossetti et al. 2004)
South America	Eulamaops	Extinct	100000	0	(Barnosky et al. 2004)
South America	Eutatus	Extinct	12000	0	(Barnosky et al. 2004)
South America	Glossotherium	Extinct	8760	8600	(Ficcarelli et al. 2003)
South America	Glyptodon	Extinct	6950	6830	(Faure et al. 1999)
South America	Glyptotherium	Extinct	1869	1085	(Carlini et al. 2008)
South America	Haplomastodon	Extinct	8760	8600	(Ficcarelli et al. 2003)
South America	Hemiauchemia	Extinct	10310	10070	(Martínez 2001)

South America	Heteroglyptodon	Extinct	100000	0	(Barnosky et al. 2004)
South America	Hippidion	Extinct	10810	10610	(Massone 2004)
South America	Hippocamelus	Extant	NA	NA	
South America	Holmesina	Extinct	42804	NA	(Barnosky and Lindsey 2010)
South America	Hoplophorus / Sclerocalyptus	Extinct	6950	6830	(Faure et al. 1999)
South America	Hydrochoerus	Extant	NA	NA	
South America	Lama	Extant	NA	NA	
South America	Lestodon	Extinct	30978	32704	(Coltorti et al. 2007)
South America	Lomaphorus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Macrauchenia	Extinct	11715	11615	(Velasquez and Mena 2006)
South America	Megatherium	Extinct	7370	7270	(Borrero et al. 1998)
South America	Mixotoxodon	Extinct	17000	14000	(Rincón et al. 2011)
South America	Morenelaphus	Extinct	12000	0	(Marshall and Sempéré 1991)
South America	Mylodon	Extinct	10600	9800	(Steadman et al. 2005)
South America	Nechoerus	Extinct	12000	0	(Barnosky et al. 2004)
South America	Neosclerocalyptus	Extinct	12000	8000	(Politis and Messineo 2008)
South America	Neothoracophorus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Nothropus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Nothrotherium	Extinct	12320	12080	(Steadman et al. 2005)
South America	Notiomastodon	Extinct	100000	0	(Barnosky et al. 2004)
South America	Ocnopus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Odocoileus	Extant	NA	NA	
South America	Onohippidium	Extinct	10470	10150	(Massone 2004)
South America	Palaeolama	Extinct	6950	6830	(Faure et al. 1999)
South America	Pampatherium	Extinct	11230	10850	(Martin and Klein 1984)
South America	Panochthus	Extinct	25000	0	(Cione et al. 2003)
South America	Panthera	Extant	NA	NA	
South America	Paraceros / Antifer	Extinct	47100	39900	(Ubilla 2004)
South America	Paramegatherium	Extinct	NA	NA	

America					
South America	Parapanochthus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Pecari	Extant	NA	NA	
South America	Perezfontanatherium	Extinct	100000	0	(Barnosky et al. 2004)
South America	Platygonus	Extinct	30978	32704	(Coltorti et al. 2007)
South America	Plaxhaplous	Extinct	100000	0	(Barnosky et al. 2004)
South America	Priodontes	Extant	NA	NA	
South America	Propaopus	Extinct	6950	6830	(Barnosky et al. 2004)
South America	Protocyon	Extinct	NA	NA	
South America	Puma	Extant	NA	NA	
South America	Scelidodon	Extinct	9110	8710	(Hubbe et al. 2007)
South America	Scelidotherium	Extinct	NA	NA	
South America	Smilodon	Extinct	9280	8980	(Auler et al. 2006)
South America	Stegomastodon	Extinct	11000	NA	(Prado et al. 2005)
South America	Tapirus	Extant	NA	NA	
South America	Theriodictus	Extinct	100000	0	(Barnosky et al. 2004)
South America	Toxodon	Extinct	6600	3400	(Baffa et al. 2000)
South America	Tremarctos	Extant	NA	NA	
South America	Valgipes	Extinct	100000	0	(Barnosky et al. 2004)
South America	Vicugna	Extant	NA	NA	
South America	Windhausenien	Extinct	100000	0	(Barnosky et al. 2004)

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Appendix 2

Tables A2 and A3 Tables summarising the variation in parameter values across the 1000 extinction scenarios for the two best performing models (Human Colonisation, Focal Climate, Lagged Climate, without and with regional area respectively) for all arrival scenarios. A positive parameter means an increased probability of extinction.

Table A2.1. Human Impact, Focal Climate, and Lagged Climate: Scenario 1

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.954	0.048	-5.105	-4.800
Human Intercept 1	-0.113	0.002	-0.118	-0.106
Human Parameter 1	104.265	6.350	93.677	120.780
Human Intercept 2	-0.061	0.009	-0.082	-0.033
Human Parameter 2	-5.739	0.520	-7.000	-4.633
Focal Temperature Mean	0.781	0.053	0.612	0.937
Focal Temperature Change	0.021	0.019	-0.044	0.074
Lag Temperature Mean	-0.752	0.053	-0.909	-0.582
Lag Temperature Change	-0.082	0.027	-0.173	0.019

Table A2.2. Human Impact, Focal Climate, and Lagged Climate: Scenario 2

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.662	0.038	-4.810	-4.567
Human Intercept 1	-0.090	0.007	-0.106	-0.061
Human Parameter 1	89.171	9.486	66.279	114.266
Human Intercept 2	0.220	0.289	-0.019	4.621
Human Parameter 2	-2.347	0.842	-4.768	-0.166
Focal Temperature Mean	0.888	0.059	0.706	1.079
Focal Temperature Change	0.007	0.020	-0.061	0.067
Lag Temperature Mean	-0.863	0.059	-1.053	-0.679
Lag Temperature Change	-0.168	0.031	-0.289	-0.059

Table A2.3. Human Impact, Focal Climate, and Lagged Climate: Scenario 3

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.879	0.050	-5.048	-4.727
Human Intercept 1	-0.113	0.002	-0.118	-0.107
Human Parameter 1	107.115	6.931	94.158	125.142
Human Intercept 2	-0.054	0.010	-0.077	-0.027
Human Parameter 2	-5.581	0.553	-6.966	-4.521
Focal Temperature Mean	0.773	0.052	0.616	0.923
Focal Temperature Change	0.091	0.019	0.026	0.143
Lag Temperature Mean	-0.745	0.052	-0.894	-0.587
Lag Temperature Change	-0.131	0.027	-0.223	-0.039

Table A2.4. Human Impact, Focal Climate, and Lagged Climate: Scenario 4

	Mean	Standard Deviation	Min	Max
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Overall Intercept	-4.660	0.039	-4.783	-4.529
Human Intercept 1	-0.094	0.006	-0.109	-0.069
Human Parameter 1	88.576	8.478	67.141	111.545
Human Intercept 2	14.995	435.201	-0.017	13720.936
Human Parameter 2	-2.358	0.811	-4.694	0.000
Focal Temperature Mean	0.914	0.056	0.733	1.079
Focal Temperature Change	0.026	0.020	-0.049	0.084
Lag Temperature Mean	-0.887	0.056	-1.051	-0.707
Lag Temperature Change	-0.178	0.029	-0.269	-0.065

Table A2.5. Human Impact, Focal Climate, and Lagged Climate: Scenario 5

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.897	0.049	-5.068	-4.765
Human Intercept 1	-0.113	0.002	-0.119	-0.107
Human Parameter 1	109.302	7.288	95.307	130.658
Human Intercept 2	-0.055	0.010	-0.079	-0.027
Human Parameter 2	-5.682	0.564	-7.058	-4.539
Focal Temperature Mean	0.763	0.052	0.603	0.917
Focal Temperature Change	0.090	0.019	0.027	0.141
Lag Temperature Mean	-0.735	0.053	-0.889	-0.574
Lag Temperature Change	-0.128	0.028	-0.225	-0.033

Table A2.6. Human Impact, Focal Climate, and Lagged Climate: Scenario 6

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.680	0.039	-4.810	-4.562
Human Intercept 1	-0.095	0.006	-0.110	-0.068
Human Parameter 1	89.879	8.611	67.454	112.406
Human Intercept 2	0.157	0.222	-0.021	5.880
Human Parameter 2	-2.527	0.786	-4.683	-0.124
Focal Temperature Mean	0.906	0.057	0.724	1.078
Focal Temperature Change	0.025	0.021	-0.047	0.082
Lag Temperature Mean	-0.880	0.057	-1.050	-0.697
Lag Temperature Change	-0.177	0.030	-0.277	-0.065

Table A2.7. Human Impact, Focal Climate, and Lagged Climate: Scenario 7

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.898	0.049	-5.067	-4.766
Human Intercept 1	-0.113	0.002	-0.119	-0.107
Human Parameter 1	114.006	7.841	99.343	138.389
Human Intercept 2	-0.057	0.010	-0.080	-0.025
Human Parameter 2	-5.889	0.600	-7.412	-4.673
Focal Temperature Mean	0.760	0.053	0.597	0.919
Focal Temperature Change	0.086	0.019	0.020	0.140
Lag Temperature Mean	-0.732	0.054	-0.891	-0.568
Lag Temperature Change	-0.130	0.028	-0.232	-0.037

Table A2.8. Human Impact, Focal Climate, and Lagged Climate: Scenario 8

	Mean	Standard Deviation	Min	Max
Overall Intercept	-4.688	0.039	-4.831	-4.587
Human Intercept 1	-0.095	0.006	-0.111	-0.064
Human Parameter 1	92.636	9.200	67.872	117.827
Human Intercept 2	16.712	524.075	-0.023	16572.846
Human Parameter 2	-2.670	0.821	-4.920	0.000
Focal Temperature Mean	0.904	0.057	0.724	1.084
Focal Temperature Change	0.022	0.021	-0.046	0.080
Lag Temperature Mean	-0.878	0.058	-1.056	-0.697
Lag Temperature Change	-0.179	0.030	-0.289	-0.072

Table A3.1. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 1

	Mean	Standard Deviation	Min	Max
Intercept	-5.899	0.255	-6.807	-5.139
Human Intercept 1	-0.110	0.002	-0.116	-0.103
Human Parameter 1	96.285	5.997	85.746	114.061
Human Intercept 2	-0.069	0.008	-0.090	-0.042
Human Parameter 2	-6.311	0.579	-7.985	-5.022
Focal Temperature Mean	0.784	0.053	0.614	0.941
Focal Temperature Change	0.021	0.019	-0.043	0.075
Lag Temperature Mean	-0.755	0.053	-0.912	-0.584
Lag Temperature Change	-0.085	0.028	-0.176	0.018
Region Area	6.517	1.494	1.914	11.655

Table A3.2. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 2

	Mean	Standard Deviation	Min	Max
Intercept	-4.540	0.201	-5.283	-4.069
Human Intercept 1	-0.090	0.007	-0.107	-0.059
Human Parameter 1	90.455	9.476	64.209	117.257
Human Intercept 2	12.031	373.084	-0.024	11798.187
Human Parameter 2	-2.286	0.861	-4.965	0.000
Focal Temperature Mean	0.888	0.059	0.705	1.078
Focal Temperature Change	0.007	0.020	-0.061	0.067
Lag Temperature Mean	-0.862	0.059	-1.053	-0.678
Lag Temperature Change	-0.168	0.031	-0.289	-0.058
Region Area	-0.853	1.297	-4.036	3.567

Table A3.3. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 3

	Mean	Standard Deviation	Min	Max
Intercept	-5.448	0.236	-6.298	-4.716
Human Intercept 1	-0.111	0.002	-0.118	-0.106
Human Parameter 1	102.165	6.629	88.795	121.617
Human Intercept 2	-0.059	0.010	-0.084	-0.031
Human Parameter 2	-5.933	0.611	-7.701	-4.680
Focal Temperature Mean	0.775	0.052	0.617	0.924
Focal Temperature Change	0.092	0.019	0.027	0.145
Lag Temperature Mean	-0.746	0.052	-0.895	-0.587
Lag Temperature Change	-0.131	0.027	-0.224	-0.040
Region Area	3.927	1.373	-0.277	8.570

Table A3.4. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 4

	Mean	Standard Deviation	Min	Max
Intercept	-4.651	0.164	-5.251	-4.151
Human Intercept 1	-0.094	0.006	-0.110	-0.068
Human Parameter 1	88.680	8.222	66.109	111.437
Human Intercept 2	3.426	101.140	-0.019	3198.416
Human Parameter 2	-2.357	0.835	-4.707	0.000
Focal Temperature Mean	0.914	0.056	0.733	1.079
Focal Temperature Change	0.026	0.021	-0.049	0.084
Lag Temperature Mean	-0.887	0.056	-1.051	-0.706
Lag Temperature Change	-0.178	0.030	-0.269	-0.065
Region Area	-0.061	0.985	-3.315	3.341

Table A3.5. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 5

	Mean	Standard Deviation	Min	Max
Intercept	-5.347	0.237	-6.194	-4.691
Human Intercept 1	-0.112	0.002	-0.118	-0.106
Human Parameter 1	105.387	7.014	92.149	128.429
Human Intercept 2	-0.059	0.010	-0.084	-0.029
Human Parameter 2	-5.955	0.620	-7.656	-4.649
Focal Temperature Mean	0.764	0.052	0.603	0.918
Focal Temperature Change	0.091	0.019	0.027	0.143
Lag Temperature Mean	-0.736	0.053	-0.890	-0.574
Lag Temperature Change	-0.128	0.028	-0.226	-0.033
Region Area	3.105	1.380	-0.646	7.732

Table A3.6. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 6

	Mean	Standard Deviation	Min	Max
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Intercept	-4.556	0.165	-5.153	-4.058
Human Intercept 1	-0.095	0.006	-0.111	-0.069
Human Parameter 1	91.202	8.371	67.912	114.220
Human Intercept 2	0.169	0.250	-0.021	6.661
Human Parameter 2	-2.471	0.804	-4.664	-0.110
Focal Temperature Mean	0.906	0.057	0.723	1.078
Focal Temperature Change	0.025	0.021	-0.047	0.082
Lag Temperature Mean	-0.879	0.057	-1.050	-0.696
Lag Temperature Change	-0.177	0.030	-0.277	-0.065
Region Area	-0.868	0.992	-4.087	2.436

Table A3.7. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 7

	Mean	Standard Deviation	Min	Max
Intercept	-5.245	0.236	-6.050	-4.613
Human Intercept 1	-0.112	0.002	-0.119	-0.106
Human Parameter 1	111.014	7.452	96.974	137.111
Human Intercept 2	-0.060	0.010	-0.084	-0.022
Human Parameter 2	-6.107	0.663	-7.938	-4.566
Focal Temperature Mean	0.761	0.053	0.597	0.920
Focal Temperature Change	0.087	0.019	0.021	0.141
Lag Temperature Mean	-0.733	0.054	-0.892	-0.568
Lag Temperature Change	-0.130	0.028	-0.232	-0.037
Region Area	2.395	1.387	-1.403	6.761

Table A3.8. Human Impact, Focal Climate, Lagged Climate, and Region Area: Scenario 8

	Mean	Standard Deviation	Min	Max
Intercept	-4.468	0.164	-5.050	-4.037
Human Intercept 1	-0.096	0.006	-0.111	-0.066
Human Parameter 1	94.974	8.879	69.791	120.590
Human Intercept 2	24.201	760.362	-0.023	24044.929
Human Parameter 2	-2.568	0.836	-4.784	0.000
Focal Temperature Mean	0.904	0.057	0.723	1.083
Focal Temperature Change	0.022	0.021	-0.046	0.080
Lag Temperature Mean	-0.877	0.058	-1.056	-0.696
Lag Temperature Change	-0.179	0.030	-0.288	-0.071
Region Area	-1.532	0.993	-4.148	1.587

Appendix 3

Table A4 Modified extinction dates for Australia used in the re-analysis of the models' performances when based on more conservative extinction dates for this region, taken from (Wroe et al. 2013).

Genus	Status	Upper Extinction Bound	Lower Extinction Bound
Casuarius	Extant	NA	NA
Diprotodon	Extinct	39000	33000
Dromaius	Extant	NA	NA
Euowenia	Extinct	NA	NA
Genyornis	Extinct	32000	28000
Lasiorninus	Extant	NA	NA
Macropus	Extant	NA	NA
Megalania	Extinct	36000	27000
Meiolania	Extinct	50000	13000
Nototherium	Extinct	100000	0
Palorchestes	Extinct	46000	38000
Phascolonus	Extinct	46000	38000
Procoptodon	Extinct	34000	14000
Protemnodon	Extinct	39000	33000
Quinkana	Extinct	50000	13000
Ramsayia	Extinct	100000	0
Simosthenurus	Extinct	36000	30000
Sthenurus	Extinct	39000	33000
Thylacoleo	Extinct	52000	44000
Wonambi	Extinct	64000	46000
Zygomaturus	Extinct	64000	46000

Wroe, S. et al. 2013. Climate change frames debate over the extinction of megafauna in Sahul (Pleistocene Australia-New Guinea). - PNAS 110: 8777–8781.

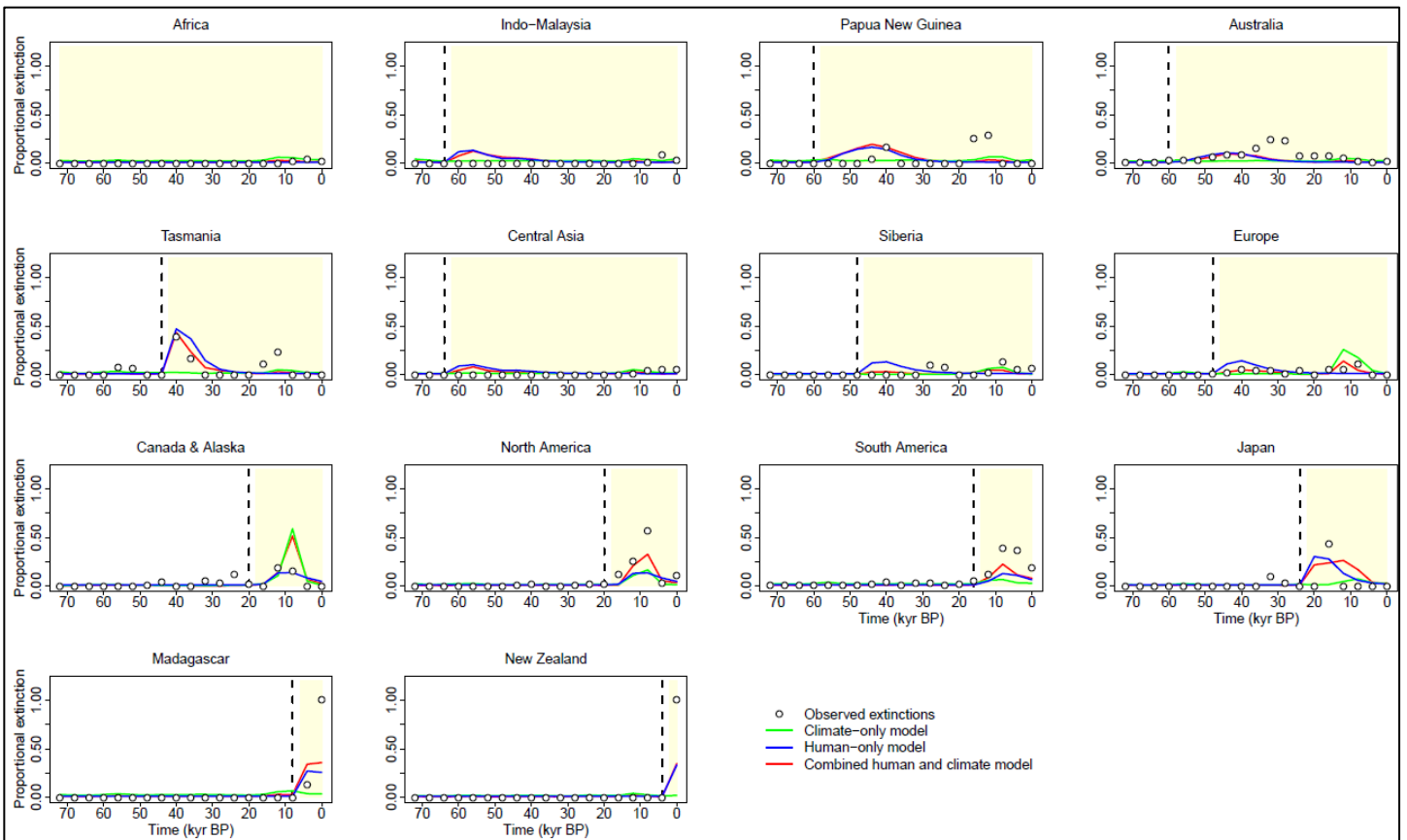


Fig. A1. A repeat analysis of Fig. 5 using the more conservative Australian last appearance dates. Graphs show a representative fit of human arrival scenario 1 (Global Early Arrival), comparing models that only include climate (green line), only human arrival (blue line), and combining both effects (red line). Time of arrival of humans in different geographic zones is marked by a vertical dashed black line and yellow shading of the period after arrival (note that Africa is completely shaded, as anatomically modern humans were present before 80k years ago).

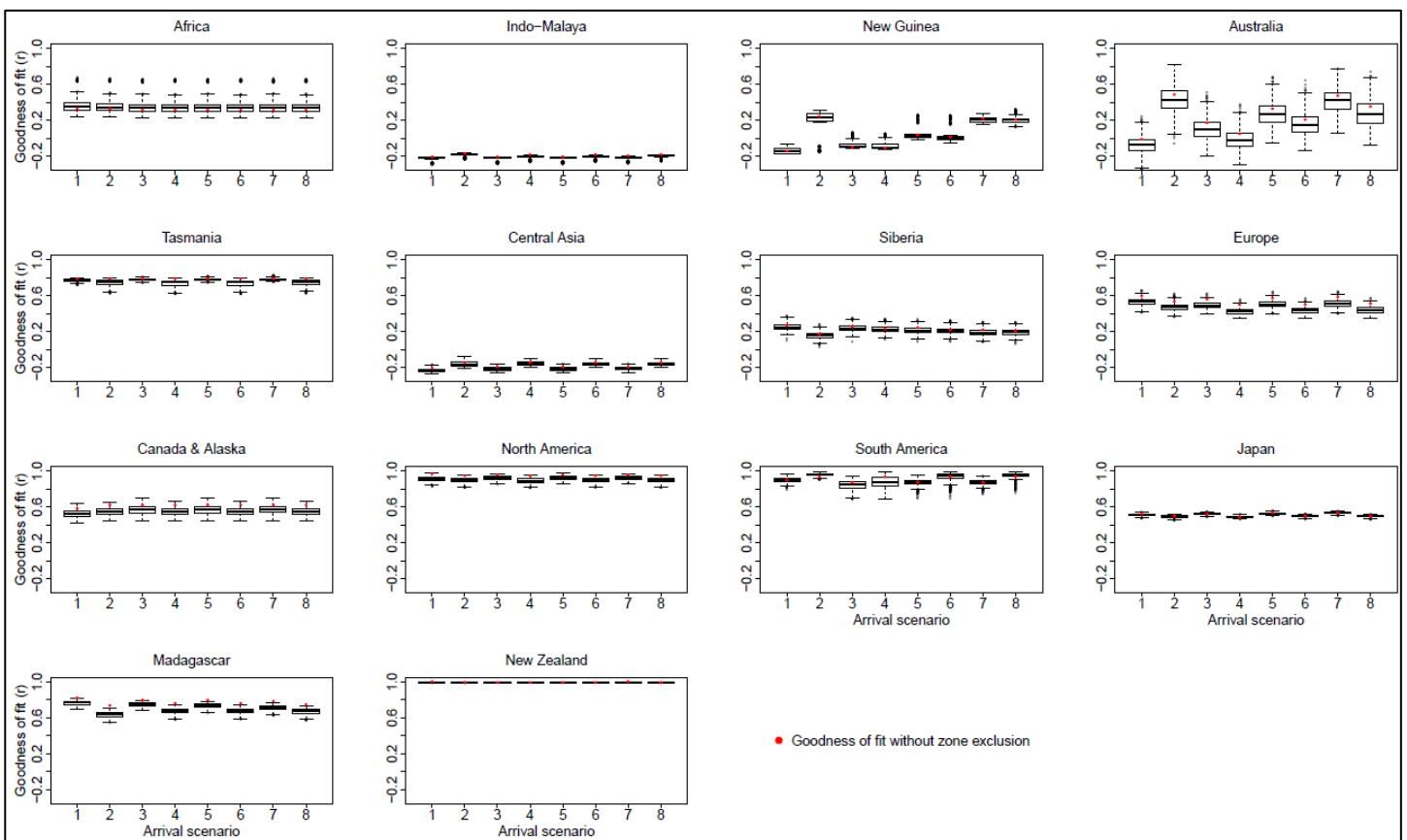


Fig. A2. A repeat analysis of Fig. 6 using the more conservative Australian last appearance dates. Graphs represent a Leave One Out Cross Validation of model performance across the 14 geographic zones, showing goodness of fit to a region of the model generated when that region is left out of model parameterisation (box plot) compared to the median of when it is included (red dot). The spread of the box plot represents variation across 1000 extinction scenarios generated to account for the uncertainty in the extinction dates.