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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
1	I	2	Paramaribo	Suriname	5º 51' N	55º 10' W	3 m	Eisenberg, 1989	Snow, 1976
2	I	2	Puerto Limón	Costa Rica	10º 00' N	083º 03' W	-3 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Canty *et al*., 2008
3	I	2	Sao Paulo	Brasil	23º 37' S	46º 39' W	807 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Rudloff, 1981
4	I	2	Tumaco	Colombia	1º 49' N	78º 47' W	4 m	Eisenberg, 1989	Snow, 1976
5	I	2	Uapes	Brasil	0º 08' S	67º 05' W	83 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Meteorological Office, 1958
6	I	4	Greenville	Liberia	5º 04' N	9º 05' W	10 m	Kingdon, 1971, 1979, 1982ab, 1997; Dorst and Dandelot, 1973; Corbet, 1978; Nowak, 1999; Skinner and Chimimba, 2005; WWF, 2006	Meteorological Office, 1983
7	I	4	Kribi	Cameroon	2º 57' N	9º 54' E	624 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Bultot and Griffiths, 1972
8	I	4	Yangambi	Democratic Republic of the Congo	0º 49' N	24º 29' E	487 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Bultot and Griffiths, 1972
9	I	5	Medan	Indonesia	3º 40' N	98º 35' E	14 m	Corbet and Hill, 1992	Sukanto, 1969
10	I	5	Silchar	India	24º 49' N	92º 48' E	29 m	Corbet and Hill, 1992	Meteorological Office, 1966
11	II	2	Acapulco	Mexico	16º 50' N	99º 56' W	3 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Meteorological Office, 1958
12	II	2	Brasilia	Brasil	15° 47' S	47° 56' W	1158 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Mühr, 2007
13	II	2	Pto Ayacucho	Venezuela	5º 41' S	67º 38' W	99 m	Eisenberg, 1989	Snow, 1976
14	II	2	Roque Sáenz Peña	Argentina	26º 49' S	60º 27' W	92 m	Redford and Eisenberg, 1992	Prohaska, 1976
15	II	4	Moundou	Chad	8º 37' N	16º 04' E	420 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Griffiths, 1972a
16	II	4	Mtwara	Tanzania	10º 16' S	40º 16' E	113 m	Kingdon, 1971, 1974, 1977, 1979, 1982ab	Griffiths, 1972b
17	II	4	Ziguinchor	Senegal	12º 35' N	16º 16' W	10 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Griffiths, 1972a

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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
18	II	5	Patna	India	25º 37' N	85º 10' E	53 m	Corbet and Hill, 1992	Rao, 1981
19	II	5	Phnom Penh	Cambodia	11º 33' N	104º 55' E	12 m	Corbet and Hill, 1992	Nieuwolt, 1981
20	II	5	Trivandrum	India	8º 29' N	18º 32' E	64 m	Corbet and Hill, 1992	Rao, 1981
21	II/III	1	Río Verde	Mexico	21º 56' N	99º 59' W	987 m	Hall, 1981	Meteorological Office, 1980
22	II/III	1	Santiago	Mexico	23º 28' N	109º 43' W	125 m	Hall, 1981	Canty *et al*., 2008
23	II/III	2	Catamarca	Argentina	28º 26' S	65º 46' W	547 m	Redford and Eisenberg, 1992	Prohaska, 1976
24	II/III	2	Las Piedras	Venezuela	11º 42' N	70º 12' W	15 m	Eisenberg, 1989	Snow, 1976
25	II/III	2	Remanso	Brasilia	9º 41' S	42º 04' W	411 m	Eisenberg, 1989; Eisenberg and Redford, 1999	Rudloff, 1981
26	II/III	4	Gaborone	Botswana	24º 41' S	25º 55' E	983 m	Kingdon 1971, 1979, 1982ab, 1997; Dorst and Dandelot, 1973; Corbet, 1978; Nowak, 1999; Skinner and Chimimba, 2005	Meteorological Office, 1983
27	II/III	4	Tulear	Madagascar	23º 23' S	43º 44' E	9 m	Garbutt, 2007	Griffiths and Ranaivoson, 1972
28	II/III	4	Voi	Kenya	3º 24' S	38º 34' E	560 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab	Griffiths, 1972b
29	II/III	4	Zinder	Niger	13º 48' N	8º 59' E	510 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Griffiths, 1972a
30	II/III	5	Jaipur	India	26º 49' N	75º 48' E	390 m	Corbet and Hill, 1992	Rao, 1981
31	III	1	El Paso	USA	31º 48' N	106º 24' W	1194 m	Hall, 1981	Meteorological Office, 1980
32	III	1	Phoenix	USA	33º 26' N	112º 01' W	340 m	Hall, 1981	Court, 1974
33	III	2	Arica	Chile	18º 28' S	70º 22' W	29 m	Redford and Eisenberg, 1992	Miller, 1976
34	III	2	Mendoza	Argentina	32º 53' S	68º 49' W	800 m	Eisenberg, 1989; Eisenberg and Redford, 1992	Meteorological Office, 1958
35	III	3	Assuan	Egypt	23º 58' N	33º 40' E	194 m	Corbet, 1978	Estienne and Godard, 1970
36	III	3	Jacobabad	Pakistan	28º 17' N	68º 29' E	57 m	Corbet and Hill, 1992	Meteorological Office, 1966

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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
37	III	3	Muscat	Oman	23º 37' N	58 35' E	4 m	Corbet, 1978	Taha *et al*., 1981
38	III	3	Smara	Western Sahara	26º 44' N	11º 26' W	140 m	Corbet, 1978	Font Tullot, 1955
39	III	4	Galcaio	Somalia	6º 46' N	47º 26' E	240 m	Kingdon, 1971, 1979, 1982ab, 1997; Dorst and Dandelot, 1973; Corbet, 1978; Nowak, 1999; Skinner and Chimimba, 2005; WWF, 2006	Meteorological Office 1983
40	III	4	Luderitz Bay	Namibia	26º 38' S	15º 06' E	23 m	Kingdon, 1971, 1974ab, 1977, 1979, 1982ab; Nowak, 1999; Dorst and Dandelot, 1973	Schulze, 1972
41	IV	1	Fresno	USA	36º 46' N	119º 42' W	100 m	Hall, 1981	Court, 1974
42	IV	1	San Diego	USA	32º 44' N	117º 10' W	4 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
43	IV	2	Santigo de Chile	Chile	33º 27' S	70º 42' W	520 m	Redford and Eisenberg, 1992	Miller, 1976
44	IV	3	Aleppo	Syria	36º 11' N	37º 13' E	395 m	Corbet, 1978	Taha *et al*., 1981
45	IV	3	Esfahan	Iran	32º 37' N	51º 40' E	1598 m	Corbet ,1978	Taha *et al*. 1981
46	IV	3	Potenza	Italy	40º38'N	15º46'E	823 m	Mitchell-Jones *et al*., 1999	Meteorological Office, 1972
47	IV	3	Sanlúcar de Barrameda	Spain	36º 47' N	6º 21' W	30 m	Corbet, 1978	Elías and Ruiz, 1977
48	IV	3	Tripoli	Greece	37º 31' N	22º 21'E	661m m	Mitchell-Jones *et al*., 1999	Meteorological Office, 1972
49	IV	3	Tunis	Tunisia	36º 50' N	10º 14' E	3 m	Corbet, 1978	Meteorological Office, 1983
50	IV	4	Cape Town	South Africa	33º 54'S	18º 32' E	17 m	Skinner and Chimimba, 2005	Schulze, 1972
51	V	1	Jacksonville	USA	30º 25' N	81º 39' W	7 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
52	V	1	New Orleans	USA	29º 57' N	90º 04' W	3 m	Hall, 1981	Court, 1974
53	V	2	Corrientes	Argentina	27º 28' S	58º 49' W	60 m	Redford and Eisenberg, 1992	Prohaska, 1976
54	V	2	Montevideo	Uruguay	34º 52' S	56º 12' W	22 m	Redford and Eisenberg, 1992	Meteorological Office, 1958

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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
55	V	2	Puerto Montt	Chile	41º 28' S	72º 57' W	13 m	Redford and Eisenberg, 1992	Miller, 1976
56	V	3	Fuzhou	China	26º 05' N	119º 18' E	88 m	Corbet and Hill, 1992	Watts, 1969
57	V	3	Kagoshima	Japan	31º 34' N	130º 33' E	4 m	Corbet, 1978	Arakawa and Taga, 1969
58	V	3	Pingnan	China	23º 23' N	110º 03' E	39 m	Corbet and Hill, 1992	Canty *et al*., 2008
59	V	3	Shaoguan	China	55º 45' N	37º 34' E	156 m	Corbet and Hill, 1992	Canty *et al*., 2008
60	V	4	East London	South Africa	33º 02' S	27º 52' E	125 m	Skinner and Smithers, 1990; Skinner and Chimimba, 2005	Schulze, 1972
61	VI	1	Cleveland	USA	41º 24' N	81º 51' W	237 m	Hall, 1981	Court, 1974
62	VI	1	Colorado Springs	USA	38º 49' N	104º 43' W	1882 m	Hall, 1981	Meteorological Office, 1980
63	VI	1	Prince Rupert	Canada	54º 17' N	136º 23' W	16 m	Hall, 1981	Hare and Hay, 1974
64	VI	1	St Louis	USA	38º 45' N	90º 23' W	163 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
65	VI	2	Evangelistas	Chile	52º 24' S	75º 06' W	55 m	Redford and Eisenberg, 1992	Miller, 1976
66	VI	3	Belgrado	Serbia	44º 48'N	20º 28'E	132 m	Mitchell-Jones *et al*., 1999	Meteorological Office, 1972
67	VI	3	Blagoveschenks	Russia	50º 15' N	106º 30' E	142 m	Corbet, 1978	Meteorological Office, 1966
68	VI	3	Moscow	Russia	55º 45' N	37º 34' E	156 m	Mitchell-Jones *et al*., 1999	Meteorological Office, 1972
69	VI	3	Tsingtao	China	36º 04' N	120º 19' E	77 m	Corbet, 1978	Watts, 1969
70	VI	3	Vlissingen	Netherlands	51º 27' N	3º 36' E	12 m	Corbet, 1978	Arléry, 1970
71	VII	1	Medicine Lake	USA	48º 29' N	104º 27' W	595 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
72	VII	1	Rapid City	USA	44º 01' N	103º 03' W	965 m	Hall, 1981	Court, 1974
73	VII	1	Santa Fé	USA	35º 40' N	105º 55' W	2195 m	Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
74	VII	1	Winnemucca	USA	40º 54' N	117º 48' W	1434 m	Hall, 1981	Meteorological Office, 1980

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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
75	VII	2	Maquinchao	Argentina	41º 15' S	68º 43' W	888 m	Redford and Eisenberg, 1992	Canty *et al*., 2008
76	VII	2	Puerto Sta Cruz	Argentina	50º 01' S	68º 32' W	12 m	Redford and Eisenberg, 1992	Prohaska, 1976
77	VII	3	Almaty	Kazakhstan	43º 16' N	76º 53' E	775 m	Corbet, 1978	Meteorological Office, 1966
78	VII	3	Fort Shevchenko	Kazakhstan	44º 33' N	50º 17' E	23m m	Corbet, 1978	Lydolph, 1977
79	VII	3	Paotou	China	40º 34' N	109º 50' E	1044 m	Corbet, 1978	Watts, 1969
80	VII	3	Urumqi	China	43º 47' N	87º 37' E	912 m	Corbet, 1978	Watts, 1969
81	VIII	1	Edmonton	Canada	53º 34' N	113º 31 W	676 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
82	VIII	1	Fairbanks	USA	64º 49' N	147º 52' W	133 m	Hall, 1981	Hare and Hay, 1974
83	VIII	1	Fort Smith	Canada	60º 01' N	11º 58' W	62 m	Hall, 1981	Hare and Hay, 1974
84	VIII	1	Gaspé	Canada	48º 50' N	64º 29' W	28 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
85	VIII	1	Smooky falls	Canada	46º 27' N	79º 55' W	227 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
86	VIII	3	Erbogachen	Russia	61º 16' N	108º01' E	287 m	Corbet, 1978	Lydolph, 1977
87	VIII	3	Kajaani	Finland	64º 17' N	27º 41' E	134 m	Corbet, 1978	Werner, 1970
88	VIII	3	Nikolayevsk-on-Amur	Russia	53º 08' N	140º 45' E	21 m	Corbet, 1978	Meteorological Office, 1966
89	VIII	3	Petropavlovsk	Russia	52º 53' N	158º 42' E	87 m	Corbet, 1978	Meteorological Office, 1966
90	VIII	3	Serov	Russia	59º 36' N	60º 32' E	132 m	Corbet, 1978	Lydolph, 1977
91	IX	1	Baker Lake	Canada	64º 18' N	96º 00' W	9 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
92	IX	1	Barrow	USA	71º 18' N	156º 47' W	7 m	Hall, 1981	Hare and Hay, 1974
93	IX	1	Cape Hope Advances	Canada	61º 05' N	69º 33' W	73 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980

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N	[a] Cl.	Biogeographic Region	Locality	Country	Latitude	Longitude	Altitude	References	
								Fauna	Climate
94	IX	1	Coopermine	Canada	67º 49' N	115º 05' W	9 m	Hall, 1981; Smithsonian National Museum of Natural History, 2006	Meteorological Office, 1980
95	IX	1	Port Harrison	Canada	58º 27' N	78º 08' W	6 m	Hall, 1981	Hare and Hay, 1974
96	IX	3	Bulun	Russia	70º 45' N	127º 47' E	35 m	Corbet, 1978	Meteorological Office, 1966
97	IX	3	Malye-Karmakuly	Russia	72º 23' N	55º 44' E	16 m	Corbet, 1978	Lydolph, 1977
98	IX	3	Mys Chelyuskin	Russia	77º 43' N	104º 17' E	6 m	Corbet, 1978	Lydolph, 1977
99	IX	3	Mys Scmidta	Russia	68º 55' N	179º 17' E	6 m	Corbet, 1978	Lydolph, 1977
100	IX	3	Nizhne-Kolymsk	Russia	68º 32' N	160º 59' E	5 m	Corbet, 1978	Meteorological Office, 1966

SUPPLEMENTARY DATA I REFERENCES

Arakawa, H., Taga, S. (1969): Climate of Japan. In: H. Arakawa (ed.), *Climates of Northern and Eastern Asia*. *World survey of climatology, Vol. 8*. Elsevier Co, Amsterdam: 119-158.

Arléry, R. (1970): The climate of France, Belgium, The Netherlands and Luxembourg. In: C.C. Wallen (ed.), *Climates of Northern and Western Europe*. *World survey of climatology*. *Vol. 5*. Elsevier Co, Amsterdam: 135-194.

Bultot, F., Griffiths, J.F. (1972): The Equatorial Wet zone. In: J.F. Griffiths (ed.), *Climates of Africa*. *World survey of climatology*. *Vol. 10*. Elsevier Co, Amsterdam: 259-312.

Canty, J.L., Canty, W.S., Breitbart, S., Frischling, D.A. (2008): *Weatherbase*. www.weatherbase.com

Corbet, G.B. (1978): *The Mammals of the Palearctic Region: a Taxonomic Review*. British Museum (Natural History) and Cornell University Press, London, UK and Ithaca, USA: 314 p.

Corbet, G.B., Hill, J.E. (1992): *The Mammals of the Indomalayan Region: A Systematic Review*. Natural History Museum Publications, Oxford University Press, Oxford: 496 p.

Court, A. (1974): The climate of the conterminous United States. In: R.A. Bryson, F.K. Hare (eds.), *Climates of North America*. *World survey of climatology*. *Vol. 11*. Elsevier Co, Amsterdam: 193-343.

Dorst, J., Dandelot, P. (1973): *A Field Guide to the Larger Mammals of Africa*. Collins, London: 287 p.

Eisenberg, J.F. (1989): *Mammals of the Neotropics*. *The Northern Neotropics*. *Vol. 1*. The University of Chicago Press, Chicago: 550 p.

Eisenberg, J.F., Redford, K.H. (1999): *Mammals of the Neotropics*. *The Central Neotropics*. *Vol. 3*. The University of Chicago Press, Chicago: 624 p.

Elías, F., Ruiz, L. (1977): *Agroclimatología de España*. INIA, Ministerio de Agricultura, Madrid: 29 p.

Estienne, P., Godard, A. (1970): *Climatologie*. Librairie Armand Colin, Paris: 367 p.

Font Tullot, Y. (1955): *El clima del Sáhara (con especial referencia a la zona española)*. Consejo Superior de Investigaciones Científicas, Madrid: 120 p.

Garbutt, N. (2007): *Mammals of Madagascar*. *A Complete Guide*. A&C Black, London: 304p.

Griffiths, J.F. (1972a): Semi-arid zones. In: J.F. Griffiths (ed.), *Climates of Africa*. *World survey of climatology, Vol. 10*. Elsevier Co, Amsterdam: 193-220.

Griffiths, J.F. (1972b): Eastern Africa. In: J.F. Griffiths (ed.), *Climates of Africa. World survey of climatology, Vol. 10*. Elsevier Co, Amsterdam: 313-348.

Griffiths, J.F., Ranaivoson, R. (1972): Madagascar. In: J.F. Griffiths (ed.), *Climates of Africa. World survey of climatology, Vol. 10*. Elsevier Co, Amsterdam: 461-499.

Hall, E.R. (1981): *The mammals of North America (Volume I & II)*. John Wiley and Sons, New York: 1241 p.

Hare, F.K., Hay, J.E. (1974): The climate of Canada and Alaska. In: R.A. Bryson, F.K. Hare (eds.), *Climates of North America. World Survey of Climatology, Vol. 11*. Elsevier Co, Amsterdam: 49-192.

Kingdon, J. (1971): *East African mammals. An atlas of evolution in Africa, Vol. 1*. Academia Press, London: 446 p.

Kingdon, J. (1974a): *East African mammals. An atlas of evolution in Africa, Vol. 2. Part A (insectivores and bats)*. Academic Press, London: 392 p.

Kingdon, J. (1974b): *East African mammals. An atlas of evolution in Africa, Vol. 2. Part B (hares and rodents)*. Academic Press, London: 762 p.

Kingdon, J. (1977): *East African mammals. An atlas of evolution in Africa, Vol. 3. Part A (Carnivores)*. Academic Press, London: 476 p.

Kingdon, J. (1979): *East African mammals. An atlas of evolution in Africa, Vol. 3. Part B (large mammals)*. Academic Press, London: 436 p.

Kingdon, J. (1982a): *East African mammals. An atlas of evolution in Africa, Vol. 3. Part C (bovids)*. Academic Press, London: 393 p.

Kingdon, J. (1982b): *East African mammals. An atlas of evolution in Africa, Vol. 3. Part D (bovids)*. Academic Press, London: 746 p.

Kingdon, J. (1997): *The Kingdon Field Guide to African Mammals*. A&C Black, London: 476 p.

Lydolph, P.E. (1977): Climates of the Soviet Union. In: H.E. Landsberg (ed.), *Climates of the Soviet Union. World survey of climatology, Vol. 7*. Elsevier Co, Amsterdam: 1-443.

Meteorological Office (1958): *Tables of temperature, relative humidity and precipitation for the World. Part II: Central and South America, the West Indies and Bermuda*. Her Majesty´s Stationery Office, London

Meteorological Office (1966): *Tables of temperature, relative humidity and precipitation for the world. Part V: Asia*. Her Majesty´s Stationery Office, London

Meteorological Office (1972): *Tables of temperature, relative humidity, precipitation and sunshine for the world. Part III: Europe and Azores*. Her Majesty´s Stationery Office, London

Meteorological Office (1980): *Tables of temperature, relative humidity, precipitation and sunshine for the World. Part I: North America and Greenland (including Hawaii and*

Bermuda). Her Majesty´s Stationery Office, London

Meteorological Office (1983): *Tables of temperature, relative humidity, precipitation and sunshine for the World. Part IV: Africa, the Atlantic Ocean South of 35ºN and the Indian Ocean*. Her Majesty´s Stationery Office, London

Miller, A. (1976): The climate of Chile. In: W. Schwerdtfeger (ed.), *Climates of Central and South America. World survey of climatology, Vol. 12*. Elsevier Co, Amsterdam: 113-145.

Mitchell-Jones, A., Amori, G., Bogdanowicz, W., Krystufek, B., Reijnders, P. (1999): *The Atlas of European Mammals*. T. & A. D. Poyser, London: 484 p.

Mühr, B. (2007): *Klimadiagramme weltweit*. www.klimadiagramme.de/index

Nieuwolt, S. (1981): The Climates of Continental Southeast Asia. In: K. Takahashi, Y. Arakawa (eds.), *The climates of southern and western Asia. World survey of climatology. Vol. 9*. Elsevier Co, Amsterdam: 1-66.

Nowak, R.M. (1999): *Walker's Mammals of the World. Vols. 1 y 2*. Johns Hopkins University Press, Baltimore: 2015 p.

Prohaska, F. (1976): The climate of Argentina, Paraguay and Uruguay. In: W. Schwerdtfeger (ed.), *Climates of Central and South America. World survey of climatology. Vol. 12*. Elsevier Co, Amsterdam: 13-112

Rao, Y.O. (1981): The climate of the Indian subcontinent. In: K. Takahashi, H. Arakawa (eds.), *Climates of Southern and Western Asia. World survey of climatology, Vol. 9*. Elsevier Co, Amsterdam: 67-182.

Redford, K.H., Eisenberg, J.F. (1992): *Mammals of the Neotropics. The Southern Cone. Vol. 2*. The University of Chicago Press, Chicago: 460 p.

Rudloff, W. (1981): *World-Climates, with tables of climatic data and practical suggestions*. Wissenschaftliche Verlagsgesellschaft, Stuttgart: 632 p.

Schulze, B.R. (1972): South Africa. In: J.F. Griffiths (ed.), *Climates of Africa. World survey of climatology, Vol. 10*. Elsevier Co, Amsterdam: 501-586.

Skinner, D., Chimimba, C.T. (2005): *The Mammals of the Southern African Subregion*. Cambridge University Press, Cambridge: 814 p.

Skinner, J.D., Smithers, R.H.N. (1990): *The Mammals of the Southern African Subregion*. University of Pretoria, Pretoria: 771 p.

Smithsonian National Museum of Natural History (2006): *North American Mammals*. www.mnh.si.edu/mna/main.cfm

Snow, J.W. (1976): The climate of Northern South America. In: W. Schwerdtfeger (ed.), *Climates of Central and South America. World survey of climatology, Vol. 12*. Elsevier Co,

Amsterdam: 295-403.

Sukanto, M. (1969): Climate of Indonesia. In: H. Arakawa (ed.), *Climates of Northern and Eastern Asia*. *World survey of climatology, Vol. 8*. Elsevier Co, Amsterdam: 215-230 p.

Taha, M.F., Harb, S.A., Nagib, M.K., Tantawy, A.H. (1981): The climate of the Near East. In: K. Takahashi, H. Arakawa (eds.), *Climates of Southern and Western Asia*. *World survey of climatology, Vol. 9*. Elsevier Co, Amsterdam: 183-255.

Watts, I.E.M. (1969): Climates of China and Korea. In: H. Arakawa (ed.), *Climates of Northern and Eastern Asia*. *World survey of climatology, Vol. 8*. Elsevier Co, Amsterdam: 1-118 p.

Werner, T. (1970): The climate of Scandinavia. In: C.C. Wallen (ed.), *Climates of Northern and Western Europe*. *World survey of climatology, Vol. 5*. Elsevier Co, Amsterdam: 23-80.

World Wildlife Fund (2006): *WildFinder: Online database of species distributions*. www.worldwildlife.org/WildFinder

Supplementary data II. Faunal lists for the six fossil site included in the analysis.
Listado faunístico para los seis yacimientos incluidos en el análisis

DEPOSITIONAL UNIT	MIDDLE UNIT				LOWER UNIT		BODY WEIGHT (LN)
LOCAL ZONE	D		E		F	G	
FOSSIL SITE	EI	PA	AOPV	S	P5	P3	
Euprox furcatus						X	10,62
Heteroprox larteti						X	10,60
H. moralesi			X	X	X		10,96
Procervulus dichotomus		X					10,82
Micromeryx flourensianus			X		X	X	8,48
M. sp. cf. M. flourensianus				X			8,48
Palaeomeryx magnus			X		X	X	12,38
Triceromeryx pachecoi	X	X					11,92
Dorcatherium crassum		X					10,09
Tethytragus sp.	X	X	X	X	X		10,53
T. langai						X	10,53
Conohyus simorrensis			X	X			11,70
Bunolistriodon lockharti	X	X	X				11,73
Listriodon splendens					X	X	11,87
Alicornops simorrensis						X	14,64
Cainotherium miocaenicum	X	X					7,15
Hispanotherium matritensis	X	X					14,09
Hoploaceratherium tetradactylum			X		X		14,11
Lartetotherium sansaniense						X	13,85
Prosantorhinus douvillei				X			14,26
Rhinocerotidae indet			X				14,07
Anchitherium sp.						X	11,41
A. alberdidae		X					11,35
A. cursor			X	X			11,12
A. matritensis	X		X				11,42
A. procerum					X		11,79
Chalicotherium grande						X	12,76
Gomphotherium angustidens			X	X	X	X	14,64
Amphechinus sp.				X			6,92
A. cf. intermedius					X		6,92
Crocidosoricinae indet					X		2,30
Soricidae indet	X		X	X			2,20
Galerix sp.			X		X	X	4,45
G. exilis				X			4,04
Lagopsis verus					X	X	5,86
L. penai	X	X	X	X			5,70
Prolagus sp.				X	X		4,50
Democricetodon sp.	X	X		X			3,71
D. larteti			X	X		X	3,71
Megacricetodon collongensis	X	X	X				2,40
Megacricetodon crusafonti						X	3,04
Megacricetodon gersii					X		2,83
Megacricetodon rafaeli					X		2,48
Megacricetodon sp. cf. M. collongensis				X			2,40
Cricetodon soriae				X			4,86
Microdyromys monspeliensis				X			3,09
Microdyromys koenigswaldi		X		X	X	X	3,09
Microdyromys sp.	X						2,20
Simplomys simplicidens	X	X	X				3,48
Armantomys aragonensis	X	X	X				4,39
Armantomys jasperi		X					3,50
Armantomys tricristatus				X	X	X	4,65
Heteroxerus grivensis			X	X		X	4,98
Heteroxerus rubricati	X	X			X	X	4,39
Atlantoxerus blacki	X	X					5,72

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Supplementary data IIIa. Eigenvalues and correlation tables between the body size spectra categories and the discriminant functions obtained for global and biogeographic realms analyses

Global Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**2,361**	**66,2**	**66,2**	**0,838**
2	0,606	17	83,2	0,614
3	0,303	8,5	91,7	0,483
4	0,181	5,1	96,7	0,392
5	0,076	2,1	98,9	0,266
6	0,038	1,1	99,9	0,191
7	0,002	0,1	100	0,05

Standarized Canonical Coefficients							
	Function						
	1	2	3	4	5	6	7
CAT. A	**1,685**	0,581	1,883	0,762	0,627	1,663	2,578
CAT. B	0,680	0,631	0,928	0,807	0,191	1,925	1,750
CAT. C	0,691	-0,076	1,105	0,611	1,140	1,341	2,008
CAT. D	0,151	0,042	1,341	0,305	-0,190	0,966	1,753
CAT. E	**1,105**	-0,375	0,467	-0,001	-0,024	1,290	1,133
CAT. F	0,552	0,445	0,095	-0,593	0,489	0,605	1,099
CAT. G	0,671	-0,096	-0,199	0,753	-0,053	0,283	1,111

Afrotropic Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**10,478**	**73,3**	**73,3**	**0,955**
2	**3,325**	**23,3**	**96,6**	**0,877**
3	0,492	3,4	100	0,574

Standarized Canonical Coefficients			
	Function		
	1	**2**	3
CAT. A	2,362	1,176	0,103
CAT. B	**4,008**	**3,579**	1,036
CAT. C	1,838	0,724	0,961
CAT. D	**4,442**	**2,681**	0,921
CAT. E	0,596	-0,090	0,835
CAT. F	-0,369	1,558	0,275

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Indomalaysian Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**442,601**	**100**	**100**	**0,999**

Standarized Canonical Coefficients	
	Function
	1
CAT. A	**23,081**
CAT. B	**18,246**
CAT. C	-9,156

Paleotropic Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**1,821**	**58,6**	**58,6**	**0,803**
2	0,856	27,6	86,2	0,679
3	0,429	13,8	100	0,548

Standarized Canonical Coefficients			
	Function		
	1	2	3
CAT. A	**1,259**	2,377	0,629
CAT. B	0,082	2,434	-0,132
CAT. C	0,208	2,479	0,978
CAT. D	**0,611**	2,195	0,197
CAT. E	**-0,580**	1,245	0,663
CAT. F	0,337	0,449	1,557
CAT. G	**-0,792**	-0,099	-0,689

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Supplementary data IIIb. Eigenvalues and correlation tables between the cenogram variables and the discriminant functions obtained for global and biogeographic realms analyses

Global Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**4,495**	**63,1**	**63,1**	**0,904**
2	**1,33**	**18,7**	**81,7**	**0,756**
3	0,619	8,7	90,4	0,618
4	0,325	4,6	95	0,495
5	0,203	2,8	97,8	0,41
6	0,079	1,1	98,9	0,27
7	0,037	0,5	99,4	0,188
8	0,03	0,4	99,9	0,172
9	0,01	0,1	100	0,099

Standarized Canonical Coefficients									
	Function								
	1	**2**	3	4	5	6	7	8	9
W1	0,511	-0,449	-0,227	0,523	0,559	0,253	0,223	0,100	-0,256
W2	-0,018	**-0,972**	0,608	-0,196	-1,178	-0,031	0,486	0,051	-0,662
W5	-0,015	0,296	0,014	0,271	0,303	0,250	0,447	0,188	0,137
P1	0,015	0,053	0,173	0,033	0,075	-0,372	-0,038	0,447	-0,074
P5	**1,455**	**1,017**	0,011	0,069	-0,444	0,206	1,083	0,109	0,699
P5-P1	**-1,099**	-0,678	-0,219	-0,222	0,325	0,077	-0,308	0,422	-0,162
G	**-0,966**	0,112	-0,551	-0,422	1,232	-0,170	0,262	0,727	0,312
mG	-0,677	0,265	0,741	-0,233	0,291	-0,957	1,357	0,690	-0,287
MG	0,835	0,133	-0,262	0,950	-1,150	1,311	-0,554	-0,581	0,680
WG	0,241	**0,991**	0,060	-0,493	0,499	0,338	-0,078	-0,435	-0,129
WmG	0,298	-0,450	0,779	-0,073	0,419	0,129	-0,130	-0,069	0,399
WMG	-0,146	0,367	-0,190	0,242	-0,166	0,552	-0,285	0,690	-0,442

Afrotropic Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**204,547**	**85,5**	**85,5**	**0,998**
2	**27,908**	**11,7**	**97,2**	**0,983**
3	**6,716**	**2,8**	**100**	**0,933**

Standarized Canonical Coefficients			
	Function		
	1	**2**	**3**
W1	1,530	-1,417	0,031
W2	**21,974**	1,133	-2,185
W5	-4,590	-4,904	0,304
P1	**-14,198**	**-12,018**	3,507
P5	1,222	**16,715**	-0,839
G	7,554	5,647	1,239
mG	-0,874	6,409	**4,639**
MG	4,357	-6,061	**-4,735**

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Indomalaysian Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**0,573**	**100**	**100**	**0,604**

Standarized Canonical Coefficients	
	Function
	1
W1	**0,415**
W2	**0,678**
W5	**-0,764**

Paleotropic Discriminant Analysis

Eigenvalues				
Function	Eigenvalue	% of Variance	Cumulative %	Canonical Correlation
1	**13,813**	**68**	**68**	**0,966**
2	**4,24**	**20,9**	**88,9**	**0,9**
3	**2,263**	**11,1**	**100**	**0,833**

Standarized Canonical Coefficients			
	Function		
	1	**2**	**3**
W1	3,739	1,888	1,593
W2	-1,168	-0,085	1,490
W5	2,736	**3,552**	0,888
P1	-1,518	3,482	-1,557
P5	1,595	**-6,404**	-0,453
G	1,574	0,935	**1,841**
mG	**4,510**	-0,172	1,040
MG	**-5,352**	0,182	**-2,508**
WG	2,551	**3,769**	0,509
WmG	2,910	1,341	0,619
WMG	-1,062	0,658	-0,310