Archive Table 1 – Data for pre-GABI South American paleofaunas analyzed in the present study. SALMA refers to South American Land Mammal "Age," an informal system of biochronologic units that allows for intracontinental correlation (see Fig. 1).

Fauna	SALMA (Age)	Pred.	Prey	Ratio	Source(s)	Notes
Arroyo Chasicó	Chasicoan (late Miocene)	3	38	0.08	Croft in press	both upper and lower biozones
Monkey Beds, La Venta, Colombia	Laventan (middle Miocene)	2	49	0.04	Kay et al., 1997; Meldrum and Kay, 1997; Croft, in press	only Monkey Beds level
Entire fauna, La Venta, Colombia	Laventan (middle Miocene)	6	64	0.09	Kay et al., 1997; Meldrum and Kay, 1997; Croft, in press	entire fauna (i.e., all levels)
Quebrada Honda, Bolivia	Laventan (middle Miocene)	2	28	0.07	Croft in press	
Collón-Curá, Argentina	Colloncuran (middle Miocene)	1	37	0.03	Croft in press	
P. australe Zone, Santa Cruz, Argentina	Santacrucian (early Miocene)	2	34	0.06	Tauber 1997	upper biozone of Santa Cruz Fm.
P. attenuatum Zone, Santa Cruz, Argentina	Santacrucian (early Miocene)	1	30	0.03	Tauber 1997	lower biozone of Santa Cruz Fm.
Chucal, Chile	Santacrucian (early Miocene)	0	17	0.00	Croft et al., 2004, unpubl. data	
Scarritt Pocket, Argentina	Deseadan (late Oligocene)	2	17	0.12	Chaffee, 1952; Marshall et al., 1986	
Salla, Bolivia	Deseadan (late Oligocene)	6	37	0.16	Shockey 1997a with additions based on Sánchez-Villagra and Kay, 1997; Shockey, 1997b, 2005; Shockey and Anaya, 2004, in press; Reguero and Cerdeño, 2005; Shockey et al., 2005	all levels
Tinguiririca, Chile	Tinguiririan (early Oligocene)	0	25	0.00	Flynn et al., 2003b; Croft et al., 2003; Reguero et al., 2003	
La Gran Hondonada, Argentina	Mustersan (late Eocene)	2	37	0.05	Cladera et al., 2004	
Gran Barranca, Argentina	Barrancan (late Eocene)	4	42	0.10	Cifelli 1985	subage of Casamayoran SALMA

Archive Table 2 – Data for Australian paleofaunas analyzed in the present study. Estimated ages are from Archer et al. (1999).

Fauna	Age	Pred.	Prey	Ratio	Source(s)	Notes
Kanunka	late Pliocene	1	18	0.06	Rich et al, 1991	
Chinchilla	late Pliocene	3	20	0.15	Rich et al, 1991	
Bow	early Pliocene	4	20	0.20	Rich et al, 1991	
Bluff Downs	early Pliocene	1	15	0.07	Rich et al, 1991	
Hamilton	early Pliocene	1	26	0.04	Rich et al, 1991	
Alcoota	late Miocene	2	10	0.20	Rich et al, 1991	
Encore	?late Miocene	5	16	0.31	Myers et al., 2001	Riversleigh
Site D	?late Miocene	2	14	0.14	Archer et al., 1991	Riversleigh
Upper Site	?early Miocene	5	48	0.10	Archer et al., 1991	Riversleigh
Kutjamarpu	?early Miocene	4	25	0.16	Woodburne et al., 1993	Etadunna Fm.
Tarkarooloo	?late Oligocene	1	17	0.06	Rich et al, 1991	Namba Fm.
Pinpa	?late Oligocene	0	11	0.00	Rich et al, 1991	Namba Fm.
“Treasure/Lungfish”	?late Oligocene	1	12	0.08	Woodburne et al., 1993	Etadunna Fm.
Ngama	?late Oligocene	0	16	0.00	Woodburne et al., 1993	Etadunna Fm.
Ditjimanka	?late Oligocene	2	11	0.18	Woodburne et al., 1993	Etadunna Fm.

Archive Table 3 – Coefficients (including 95% confidence intervals) of second order polynomial least squares regression equations of predator diversity on prey diversity. Abbreviations: AF, Africa; AU, Australia; EA, Eurasia; FOS, fossil faunas; MOD, modern faunas; N, number of faunas; NA, North America; REC, reconstructed faunas; SA, South America.

	N	Slope (x)	Slope (x^2)	Intercept	r^2
AF	33	0.361 (0.026-0.696)	-0.001 (-0.005-0.003)	2.62 (-4.66-9.90)	0.563
AU (FOS)	15	0.122 (-0.309-0.552)	-0.004 (-0.008-0.007)	0.048 (-4.97-5.07)	0.305
AU (MOD)	87	0.133 (0.047-0.218)	-0.0003 (-0.002-0.002)	0.373 (-0.36-1.10)	0.475
AU (REC)	15	-0.026 (-0.961-0.909)	0.002 (-0.018-0.021)	2.81 (-8.24-13.85)	0.081
AU (MOD + REC)	102	0.133 (0.053-0.214)	-0.0005 (-0.003-0.002)	0.402 (-0.300-1.10)	0.464
EA	92	0.369 (0.172-0.566)	-0.002 (-0.005-0.001)	2.32 (-0.68-5.31)	0.448
NA	105	0.528 (0.284-0.773)	-0.004 (-0.007—0.002)	-0.062 (-4.01-3.88)	0.526
AF+EA+NA	230	0.374 (0.258-0.491)	-0.002 (-0.003-0.0005)	2.10 (0.092-4.10)	0.551
SA (FOS)	13	0.053 (-0.308-0.415)	0.001 (-0.004-0.005)	-0.371 (-7.12-6.38)	0.465
SA (MOD)	53	0.150 (-0.099-0.400)	-0.0005 (-0.003-0.004)	4.87 (1.10-8.63)	0.532

Archive Table 4 – Predicted predator diversity of South American paleofaunas based on simple least-squares regressions of predator diversity on prey diversity for modern large continents. Predictions based on both unconstrained regressions (U) and regressions constrained through the origin (O) are provided. Abbreviations: AF, Africa; EA, Eurasia; NA, North America; SA, South America.

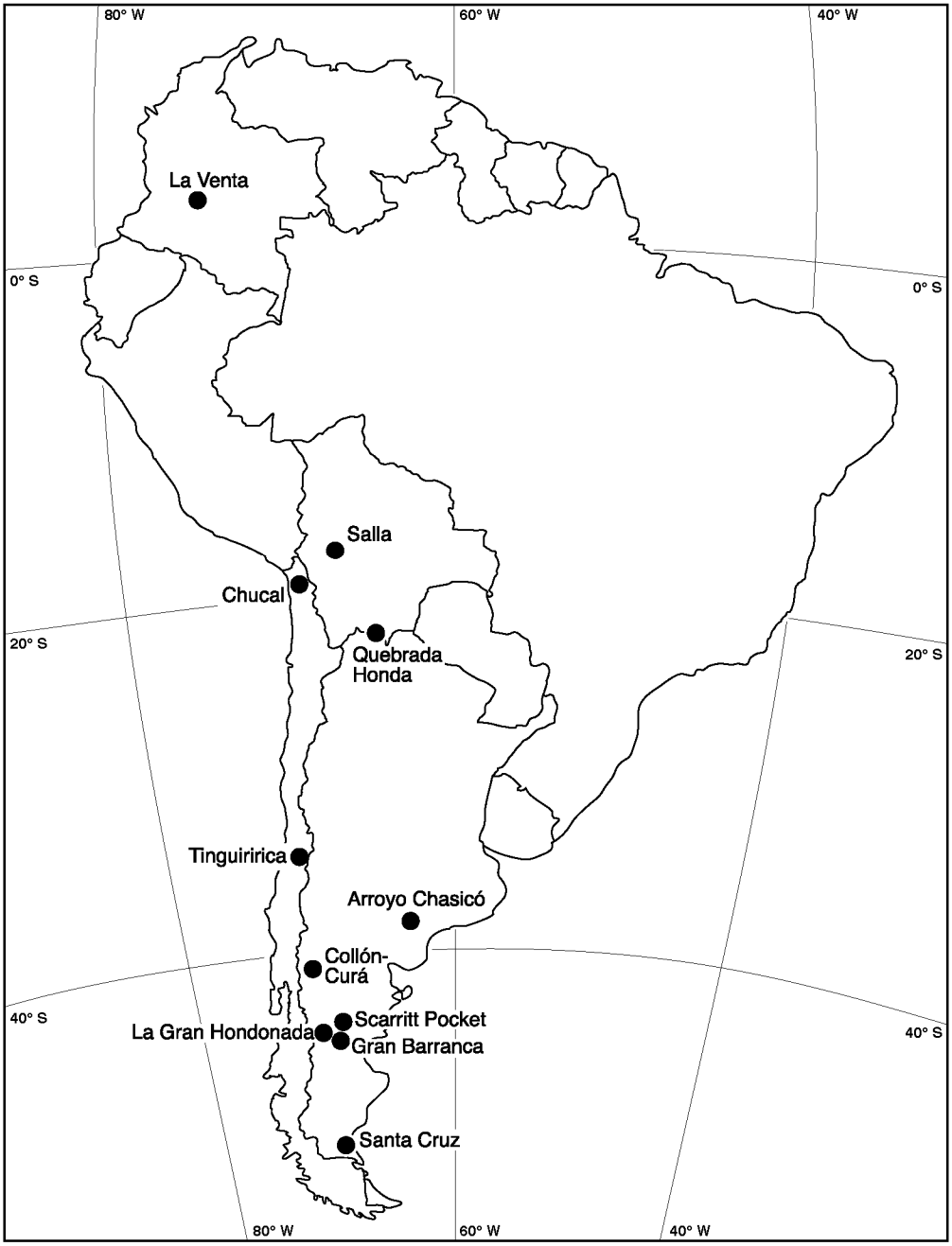
Fauna	**Prey**	**Actual**	**AF (U / O)**	**EA (U / O)**	**NA (U / O)**	**SA (U / O)**	**AF-EA-NA (U / O)**
Arroyo Chasicó	38	3	14.4 / 13.5	13.0 / 13.8	14.2 / 14.7	11.4 / 11.2	13.8 / 14.1
Monkey Beds, La Venta, Colombia	49	2	17.2 / 17.3	15.7 / 17.7	17.3 / 19.0	13.4 / 14.4	16.8 / 18.2
Entire fauna, La Venta, Colombia	64	6	21.1 / 22.7	19.4 / 23.2	21.5 / 24.8	16.2 / 18.8	20.9 / 23.7
Quebrada Honda, Bolivia	28	2	11.8 / 9.9	10.6 / 10.1	11.5 / 10.9	9.6 / 8.2	11.1 / 10.4
Collón Curá, Argentina	37	1	14.1 / 13.1	12.8 / 13.4	14.0 / 14.4	11.2 / 10.9	13.6 / 13.7
P. australe Zone, Santa Cruz, Argentina	34	2	13.4 / 12.0	12.0 / 12.3	13.1 / 13.2	10.7 / 10.0	12.8 / 12.6
P. attenuatum Zone, Santa Cruz, Argentina	30	1	12.3 / 10.6	11.1 / 10.9	12.0 / 11.6	9.9 / 8.8	11.7 / 11.1
Chucal, Chile	17	0	9.0 / 6.0	7.9 / 6.2	8.4 / 6.6	7.5 / 5.0	8.2 / 6.3
Scarritt Pocket, Argentina	17	2	9.0 / 6.0	7.9 / 6.2	8.4 / 6.6	7.5 / 5.0	8.2 / 6.3
Salla, Bolivia	37	6	14.1 / 13.1	12.8 / 13.4	14.0 / 14.4	11.2 / 10.9	13.6 / 13.7
Tinguiririca, Chile	25	0	11.1 / 8.9	9.8 / 9.1	10.6 / 9.7	9.0 / 7.4	10.3 / 9.3
La Gran Hondonada, Argentina	37	2	14.1 / 13.1	12.8 / 13.4	14.0 / 14.4	11.2 / 10.9	13.6 / 13.7
Gran Barranca, Argentina	42	4	15.4 / 14.9	14.0 / 15.2	15.3 / 16.3	12.1 / 12.3	14.9 / 15.6

Archive Table 5 – Specimen abundances of predators (PRED) and phorusrhacids (PHOR) in large collections from pre-GABI South American localities. N indicates the number of specimens identified to order (or family, in the case of marsupials. Abundances of other typically rare mammals are also provided including paucituberculate marsupials (e.g., caenolestids, palaeothentids, polydolopids, argyrolagids, etc.), microbiotherian marsupials, primates, and anteaters (Myrmecophagidae). Chilean data are compiled from a variety of sources (e.g., Flynn et al., 2003a, 2003b, 2005; Wyss et al., 2003, 2004, 2005; Croft et al., 2004; Wertheim et al., 2005), manuscripts in preparation, and additional unpublished data. Collection abbreviations: ACMNH, Amherst College Museum of Natural History (from Loomis, 1914); FLMNH, Florida Museum of Natural History, Gainesville; FMNH, Field Museum, Chicago; KU, University of Kansas Natural History Museum; PU, Princeton University (at Yale Peabody Museum); SGOPV, Museo Nacional de Historia Natural, Santiago; UCMP, University of California Museum of Paleontology, Berkeley.

Locality (Age)	Collection	N	PRED	PHOR	Other rare mammals
Abanico Fm., Chile (?late Eocene – early Miocene)	SGOPV	693	1 (0.1%)	0	17 paucituberculates, 1 primate
Salla, Bolivia (Deseadan; late Oligocene)	FLMNH	1,394	7 (0.5%)	2	9 paucituberculates, 5 primates
Salla, Bolivia (Deseadan; late Oligocene)	PU	476	10 (2.1%)	≤ 6	3 palaeothentids, 2 primates
Deseado Fm., Argentina (Deseadan, late Oligocene)	ACMNH	293	4 (1.4%)	6	7 palaeothentids
Laguna del Laja, Chile (early-late Miocene)	SGOPV	136	1 (0.7%)	0	1 paucituberculate
Santa Cruz, Argentina (Santacrucian, early Miocene)	FMNH	289	6 (2.1%)	6	1 palaeothentid
Santa Cruz, Argentina (Santacrucian, early Miocene)	KU	155	1 (0.6%)	1	1 caenolestid
Santa Cruz, Argentina (Santacrucian, early Miocene)	PU	1,017	21 (2.1%)	18	16 palaeothentids, 2 microbiotheres, 1 primate, 1 myrmecophagid
Chucal, Chile (Santacrucian, early Miocene)	SGOPV	276	0	0	2 caenolestids
La Venta, Colombia	UCMP	996	6 (0.6%)	0	5 primates, 4 myrmecophagids
TOTAL	-	5725	57 (1.0%)	39	57 paucituberculates, 2 microbiotheres, 9 primates, 5 myrmecophagids

Archive Table 6 – Currently recognized species of pre-GABI phorusrhacids (based on Alvarenga and Höfling, 2003).

Taxon	SALMA	Locality and Horizon
Psilopterus colzecus	Chasicoan	Buenos Aires, Argentina (Arroyo Chasicó Fm.): Partido de Villarino.
Brontornis burmeisteri	Santacrucian	Santa Cruz, Argentina (Santa Cruz Fm.): Lago Argentina, Monte Leon, Monte Observación, Kariaken, La Cueva, Rio Gallegos.
Psilopterus bachmanni	Santacrucian	Santa Cruz, Argentina (Santa Cruz Fm.): Lake Pueyrredon, Monte Observación, La Cueva
Psilopterus lemoinei	Santacrucian	Santa Cruz, Argentina (Santa Cruz Fm.): Killik Aike, Monte Observación, Take Harvey, La Cueva, Corriguen Kaik, Tagua Quemada
Phorusrhacos longissimus	Santacrucian	Santa Cruz, Argentina (Santa Cruz Fm.): La Cueva, Tagua Quemada, Monte Observación, Rio Shehuen
Patagornis marshi	Santacrucian	Santa Cruz, Argentina (Santa Cruz Fm.): Monte Observación, Tagua Quemada, La Cueva
Physornis fortis	Deseadan	Chubut, Argentina (Deseado Fm.): Puerto Deseado, Punta Nova, La Flecha
Andrewsornis abbotti	Deseadan	Chubut, Argentina (Deseado Fm.): Cabeza Blanca; Santa Cruz, Argentina: Pico Truncado;
Psilopterus affinis	Deseadan	Chubut, Argentina (Deseado Fm.): Cabeza Blanca
Paraphysornis brasiliensis	Deseadan	São Paulo, Brazil (Tremembé Fm.): Taubaté Basin
Paleopsilopterus itaboraiensis	Itaboraian	Rio de Janeiro, Brazil: Itaboraí



Archive Fig. 1. Map of South American fossil localities discussed in the text.

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