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SUPPLEMENTARY ONLINE MATERIAL FOR

A new brontothere from the Eocene of South China

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Supplementary Online Material

SOM 1. The character-taxon matrix with scores for *Maobrontops paganus* gen. et sp. nov.

SOM 2. Taxon list with measurements (in mm).

SOM 1. The character-taxon matrix with scores for *Maobrontops paganus* gen. et sp. nov.

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xread
92 58
Xenocohippus_osborni      000-0000010-
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Pachynolophus_liviniensis 000-0000?00-
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Danjiangia_pingi        ?00-0000000-1000?00[0
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Acrotitan_ulanshirensis      ?????????????????????????????????????????????????????????[1
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Metarhinus_abbotti 100-?400000-
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02?11
Sthenodectes_incisivum 100-1100?10-
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Wickia_brevirhinus 100-1100010-
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Gnathotitan_berkeyi ?????[2 3 4
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Metatitan_khaitshinus
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Protembolotherium_efremovi 1032?3201--
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Embolotherium_andrewsi 1032133---
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2?2211
Embolotherium_grangeri 1042?53---
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Diplacodon_elatus
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Dianotitan_lunanensis
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Megacerops_coloradensis
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Megacerops_kuwakatarhinus
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Maobrontops_paganus
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;

ccode + 0.24 26.71 73.91 *;

proc /;
comments 0
;
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SOM. 2. Taxon list with measurements (in mm)

Taxon	Specimen	Occurrence								Reference				Mean	Mean	Mean
			LP4	WP4	LM1	WM1	LM2	WM2	LP4*WP4		LM1*WM1	LM2*WM2	LP4*WP4	LM1*WM1	LM2*WM2	
<i>Dianotitan lunanensis</i>	VM 547	Asia	33,1	42,6	43,3	51,9	60,1	61,7	Mihlbachler, 2008	1410,06	2247,27	3708,17	1410,06	2247,27	3708,17	
<i>Embolotherium andrewsi</i>	AMNH 26010	Asia	39	50,6	58,2	59,7	85,5	83,8	Mihlbachler, 2008	1973,4	3474,54	7164,9	2166,626667	3654,93	6858,62	
<i>Embolotherium andrewsi</i>	AMNH 26003	Asia	42,4	55,4	54,6	70,6	88,8	86,7	Mihlbachler, 2008	2348,96	3854,76	7698,96				
<i>Embolotherium andrewsi</i>	AMNH 26009	Asia	42,2	51,6	53,7	67,7	71,4	80	Mihlbachler, 2008	2177,52	3635,49	5712				
<i>Embolotherium grangeri</i>	AMNH 26004	Asia	41,7	52,5	63,2	61,5	89,3	77,9	Mihlbachler, 2008	2189,25	3886,8	6956,47	1935,335	3760,945	6708,605	
<i>Embolotherium grangeri</i>	AMNH 26002	Asia	37,7	44,6	59,3	61,3	85,8	75,3	Mihlbachler, 2008	1681,42	3635,09	6460,74				
<i>Eotitanops pakistanensis</i>	GSP-UM 6558	Asia	10,3	12,2	14,8	15,1	16	17,1	Missiaen et al., 2011	125,66	223,48	273,6	125,66	223,48	273,6	
<i>Epimanteoceras amplus</i>	PIN 3109-41	Asia	41,6	46,9	60,5	53,8	74,1	65,7	Mihlbachler, 2008	1951,04	3254,9	4868,37	1951,04	3254,9	4868,37	
<i>Epimanteoceras formosus</i>	AMNH 21607	Asia	32,8	39,2	51,9	37,8	65,9	48,9	Mihlbachler, 2008	1285,76	1961,82	3222,51	1164,83	1832,04	3042,255	
<i>Epimanteoceras formosus</i>	AMNH 21613	Asia	28,6	36,5	38,6	44,1	54	53	Mihlbachler, 2008	1043,9	1702,26	2862				
<i>Gnathotitan berkeyi</i>	141231	Asia	41,2	47	64,9	54,6	86,6	69,4	Mihlbachler, 2008	1936,4	3543,54	6010,04	1825,72	3288,32	5788,21	
<i>Gnathotitan berkeyi</i>	AMNH 20121	Asia	39,7	43,2	61,9	49	82,1	67,8	Mihlbachler, 2008	1715,04	3033,1	5566,38				
<i>Maobrontops paganus</i>	SYSU-M-4	Asia	42,1	49	56,1	57,4	73,3	69,8	This paper	2062,9	3220,14	5116,34	2062,9	3220,14	5116,34	
<i>Metatitan khaitshinus</i>	PIN 3745-11	Asia	41	48,6	65,3	56,3	78,1	64,7	Mihlbachler, 2008	1992,6	3676,39	5053,07	1657,913333	2854,41	4382,653333	
<i>Metatitan khaitshinus</i>	PIN 3745-1	Asia	33,1	42,6	51,1	47,1	65,7	55,6	Mihlbachler, 2008	1410,06	2406,81	3652,92				
<i>Metatitan khaitshinus</i>	PIN 3745-12	Asia	36,2	43,4	49,7	49,9	72,7	61,1	Mihlbachler, 2008	1571,08	2480,03	4441,97				
<i>Metatitan primus</i>	AMNH 26101	Asia	37,8	45,3	55	51,8	74,1	60,9	Mihlbachler, 2008	1712,34	2849	4512,69	1712,34	2849	4512,69	
<i>Metatitan relictus</i>	AMNH 26396	Asia	38,5	43,7	57,4	54,5	70,2	68,8	Mihlbachler, 2008	1682,45	3128,3	4829,76	1726,52	2986,195	4659,1775	
<i>Metatitan relictus</i>	AMNH 26406	Asia	36,3	43,9	56,1	49,1	77,9	59,7	Mihlbachler, 2008	1593,57	2754,51	4650,63				
<i>Metatitan relictus</i>	AMNH 26398	Asia	39,1	54	53,3	63,1	78,1	69,5	Mihlbachler, 2008	2111,4	3363,23	5427,95				
<i>Metatitan relictus</i>	AMNH 26391	Asia	35,4	42,9	51,7	52,2	63,3	58,9	Mihlbachler, 2008	1518,66	2698,74	3728,37				
<i>Microtitan mongoliensis</i>	AMNH 21611	Asia	18,9	20,1	28,5	24,3	37,1	30,7	Mihlbachler, 2008	379,89	692,55	1138,97	379,89	692,55	1138,97	
<i>Pachytitan ajax</i>	AMNH 21612	Asia	40,6	48,3	53,1	57	77,2	65,4	Mihlbachler, 2008	1960,98	3026,7	5048,88	1960,98	3026,7	5048,88	
<i>Parabrontops gobiensis</i>	AMNH 26020	Asia	35,1	42	45,3	44,5	63,1	54	Mihlbachler, 2008	1474,2	2015,85	3407,4	1474,2	2015,85	3407,4	
<i>Protembolotherium efremovi</i>	PIN 473-311	Asia	38,5	46,1	46,2	50	69,4	68,3	Mihlbachler, 2008	1774,85	2310	4740,02	1774,85	2310	4740,02	
<i>Protitan grangeri</i>	AMNH 26104	Asia	32,7	35,7	50,8	44,1	74,7	56,6	Mihlbachler, 2008	1167,39	2240,28	4228,02	1123,853333	2025,766667	3739,573333	
<i>Protitan grangeri</i>	AMNH 20123	Asia	31,1	37,2	47,2	41,9	61	55,4	Mihlbachler, 2008	1156,92	1977,68	3379,4				

<i>Protitan grangeri</i>	AMNH 20114	Asia	29,5	35,5	46,6	39,9	67	53,9	Mihlbachler, 2008	1047,25	1859,34	3611,3			
<i>Protitan major</i>	IVPP V 13802	Asia	42,5	45,5	55	58	81,5	72	Huang & Zheng, 2004	1933,75	3190	5868	1933,75	3190	5868
<i>Protitan minor</i>	AMNH 26416	Asia	30,7	33	45,6	43,2	62,5	53	Mihlbachler, 2008	1013,1	1969,92	3312,5	1035,135	1943,445	3491,45
<i>Protitan minor</i>	AMNH 26417	Asia	26,9	39,3	40,7	47,1	62	59,2	Mihlbachler, 2008	1057,17	1916,97	3670,4			
<i>Protitanotherium koreanicum</i>	UMUT CV 6028	Asia	32,4	38	44,4	46,6	64,3	59	Mihlbachler, 2008	1231,2	2069,04	3793,7	1231,2	2069,04	3793,7
<i>Pygmaetitan panxianensis</i>	IVPP V6521	Asia	13,9	20,3	19,2	22,2	28,6	29	Mihlbachler, 2008	282,17	426,24	829,4	282,17	426,24	829,4
<i>Qufutitan zhoui</i>	IVPP V8067	Asia	38,3	48,4	52	52,6	73	64,6	Mihlbachler, 2008	1853,72	2735,2	4715,8	1853,72	2735,2	4715,8
<i>Rhinotitan andrewsi</i>	AMNH 20263	Asia	40,7	45	57,6	54,8	73,5	64,4	Mihlbachler, 2008	1831,5	3156,48	4733,4	1771,579	2791,852	4317,257
<i>Rhinotitan andrewsi</i>	IVPP V3254-2	Asia	44,2	44,3	57,2	61	67,1	61,3	Mihlbachler, 2008	1958,06	3489,2	4113,23			
<i>Rhinotitan andrewsi</i>	AMNH 20254	Asia	41,2	43,3	55,2	46,3	71,2	61,2	Mihlbachler, 2008	1783,96	2555,76	4357,44			
<i>Rhinotitan andrewsi</i>	PIN 2198-5	Asia	35,9	38,1	55,1	49,4	64,8	57,5	Mihlbachler, 2008	1367,79	2721,94	3726			
<i>Rhinotitan andrewsi</i>	AMNH 20271	Asia	40,7	44,9	54,9	50,4	76,8	64,4	Mihlbachler, 2008	1827,43	2766,96	4945,92			
<i>Rhinotitan andrewsi</i>	IVPP V3254-1	Asia	38,8	49,6	53,6	50,8	69,5	64,5	Mihlbachler, 2008	1924,48	2722,88	4482,75			
<i>Rhinotitan andrewsi</i>	IVPP V3254-1	Asia	38,8	49,6	53,6	50,8	69,5	64,5	Mihlbachler, 2008	1924,48	2722,88	4482,75			
<i>Rhinotitan andrewsi</i>	IVPP V3254-2	Asia	44,2	44,3	52,2	51	67,1	61,3	Mihlbachler, 2008	1958,06	2662,2	4113,23			
<i>Rhinotitan andrewsi</i>	PIN 7130-3	Asia	39,5	42,1	51,1	51	67,7	62,5	Mihlbachler, 2008	1662,95	2606,1	4231,25			
<i>Rhinotitan andrewsi</i>	AMNH 20261	Asia	37,3	39,6	51,1	49,2	64,3	62	Mihlbachler, 2008	1477,08	2514,12	3986,6			
<i>Rhinotitan kaiseni</i>	AMNH 20257	Asia	35,2	43,4	52,9	52	52,9	59	Mihlbachler, 2008	1527,68	2750,8	3121,1	1450,9	2425,925	3337,475
<i>Rhinotitan kaiseni</i>	FMNH P14048	Asia	34,7	39,6	48,3	43,5	62,9	56,5	Mihlbachler, 2008	1374,12	2101,05	3553,85			

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