

Supplement of Foss. Rec., 17, 69–74, 2014
<http://www.foss-rec.net/17/69/2014/>
doi:10.5194/fr-17-69-2014-supplement
© Author(s) 2014. CC Attribution 3.0 License.



Fossil Record museum für
naturkunde
Open Access berlin

Supplement of

The stratigraphic importance of the brontothere (cf. *Diplacodon elatus*) in the Brennan Basin Member of the Duchesne River Formation of Utah

B. J. Burger and L. Tackett II

Correspondence to: B. J. Burger (benjamin.burger@usu.edu)

CONTINENT	Specimen #	Species	M3/ LENGTH	M3/ WIDTH
NA	FHPR 11763	NEW SPECIMEN from BRENNEN BASIN MBR	60	57
ASIA	NMMP-KU 0312	Bunobrontops savegei	45	42.7
ASIA	NMMP-KU 0313	Bunobrontops savegei	38.3	40.9
ASIA	UCMP 147045	Bunobrontops savegei	45.2	44.5
ASIA	VM 547	Dianotitan lunanensis	68.3	63.5
ASIA	VM 573	Dianotitan lunanensis	66.8	64.3
NA	AMNH 21887	Diplacodon elatus	64.2	53.4
NA	CMNH 10200	Diplacodon elatus	71.4	61.4
NA	CMNH 11819	Diplacodon elatus	69.1	60.9
NA	CMNH 11879	Diplacodon elatus	67.1	59.8
NA	CMNH 11881	Diplacodon elatus	63.8	56.3
NA	CMNH 2859	Diplacodon elatus	69.5	61.9
NA	FMNH P14632	Diplacodon elatus	68.8	59.1
NA	FMNH P14633	Diplacodon elatus	66.2	52.9
NA	FMNH P14799	Diplacodon elatus	67.3	56.8
NA	FMNH P15446	Diplacodon elatus	74	63.3
NA	YPM 11180	Diplacodon elatus	71.9	59.4
NA	AMNH 117163	Cf. Diplacodon	58	57.4
NA	AMNH 13164	Dolichorhinus hyoganathus	48.9	44.8
NA	AMNH 1837	Dolichorhinus hyoganathus	47.4	40.1
NA	AMNH 1845	Dolichorhinus hyoganathus	54.3	43.3
NA	AMNH 1850	Dolichorhinus hyoganathus	45.2	37.8
NA	AMNH 1851	Dolichorhinus hyoganathus	54.2	47.8
NA	AMNH 1852	Dolichorhinus hyoganathus	47.9	43.4
NA	CMNH 11081	Dolichorhinus hyoganathus	51.1	43.2
NA	CMNH 2340	Dolichorhinus hyoganathus	49	44.2
NA	CMNH 2865	Dolichorhinus hyoganathus	47.8	46.3
NA	CMNH 3096	Dolichorhinus hyoganathus	43.6	37.3
NA	CMNH 3117	Dolichorhinus hyoganathus	45.3	38.1
NA	CMNH 9413	Dolichorhinus hyoganathus	45.8	38.3
NA	FMNH P12167	Dolichorhinus hyoganathus	57.3	47.8
NA	FMNH P12168	Dolichorhinus hyoganathus	41.8	38.3
NA	FMNH P12175	Dolichorhinus hyoganathus	50.7	44.7
NA	FMNH P12182	Dolichorhinus hyoganathus	52.4	44.8
NA	FMNH P12193	Dolichorhinus hyoganathus	47.6	43.2
NA	FMNH P12200	Dolichorhinus hyoganathus	50.6	39.8
NA	FMNH P12215	Dolichorhinus hyoganathus	43.5	38.6
NA	FMNH PM3870	Dolichorhinus hyoganathus	45.3	41.2
NA	FMNH PM3873	Dolichorhinus hyoganathus	56.1	47.4
NA	UCMP 31845	Dolichorhinus hyoganathus	41.1	34
NA	AMNH 32604	Duchesneodus uintensis	69	64.1
NA	CMNH 11754	Duchesneodus uintensis	69.2	64.2
NA	CMNH 11759	Duchesneodus uintensis	57.5	52.5
NA	CMNH 11766	Duchesneodus uintensis	70	66.4

NA	CMNH 11767	Duchesneodus uintensis	71.2	65.1
NA	CMNH 11815	Duchesneodus uintensis	51.2	51.1
NA	CMNH 11816	Duchesneodus uintensis	73.5	63.2
NA	F:AM 108521	Duchesneodus uintensis	73.1	70.8
NA	FMNH PM136	Duchesneodus uintensis	71	66.3
NA	FMNH PM522	Duchesneodus uintensis	65.9	62.1
NA	LACM 128401	Duchesneodus uintensis	68.4	61.8
ASIA	AMNH 26000	Embolotherium andrewsi	85	80
ASIA	AMNH 26003	Embolotherium andrewsi	108.4	101.2
ASIA	AMNH 26009	Embolotherium andrewsi	93	81
ASIA	AMNH 26010	Embolotherium andrewsi	95.8	90.7
ASIA	IVPP V11959	Embolotherium andrewsi	115	107.7
ASIA	AMNH 26002	Embolotherium grangeri	96.8	82.4
ASIA	AMNH 26004	Embolotherium grangeri	104.8	84.9
ASIA	PIN 3109-41	Epimanteoceras amplus	86.8	72.4
ASIA	AMNH 21607	Epimanteoceras formosus	69.8	52.8
ASIA	AMNH 21613	Epimanteoceras formosus	70.4	52
NA	UCMP 126100	Eubrontotherium clarenoensis	76.1	66.8
NA	UCMP 126101	Eubrontotherium clarenoensis	86.4	80.4
NA	UCMP 126157	Eubrontotherium clarenoensis	70.6	73.4
NA	UCMP 126159	Eubrontotherium clarenoensis	80.1	74.9
ASIA	PIN 3109-39	Eubrontotherium clarenoensis	81.4	69.9
ASIA	PIN 3109-90	Eubrontotherium clarenoensis	64.9	57.4
NA	AMNH 1863	Fossendorhinus diploconus	45	39.1
ASIA	AMNH 141231	Gnathotitan berkeyi	111.8	72.6
ASIA	AMNH 20121	Gnathotitan berkeyi	90.5	60.6
NA	AMNH 12184	Mesatirhinus junius	39.1	40.1
NA	AMNH 12191	Mesatirhinus junius	37.6	33.6
NA	AMNH 12202	Mesatirhinus junius	36.1	32
NA	AMNH 12686	Mesatirhinus junius	31.6	29.1
NA	AMNH 1509	Mesatirhinus junius	36.1	32.8
NA	AMNH 1514	Mesatirhinus junius	36.9	32.6
NA	AMNH 1523	Mesatirhinus junius	35.3	32.6
NA	AMNH 1571	Mesatirhinus junius	39.3	34.4
NA	DMNH 29950	Mesatirhinus junius	39.8	35.9
NA	DMNH 8103	Mesatirhinus junius	41.2	38.2
NA	FMNH PM1676	Mesatirhinus junius	43.5	36.1
NA	FMNH PM36045	Mesatirhinus junius	37.6	33.9
NA	YPM 11070	Mesatirhinus junius	35.9	33
NA	YPM 11148	Mesatirhinus junius	37.6	33.4
NA	YPM 11149	Mesatirhinus junius	32.8	30.6
NA	YPM 16420	Mesatirhinus junius	37.7	33.9
NA	YPM 16423	Mesatirhinus junius	38.3	33.3
NA	YPM 16722	Mesatirhinus junius	35.4	31.8
NA	YPM PU25021	Mesatirhinus junius	38.4	34.9
NA	CMNH 3510	Metarhinus abbotti	38	41.1
NA	FMNH P12179	Metarhinus abbotti	38.8	36.1

NA	FMNH P12173	Metarhinus fluviatilis	39	36.6
NA	FMNH P12186	Metarhinus fluviatilis	37.4	35.6
NA	FMNH P12187	Metarhinus fluviatilis	37.6	34.1
NA	FMNH PM1733	Metarhinus fluviatilis	42.8	37.7
NA	FMNH PM3935	Metarhinus fluviatilis	39	34.7
NA	FMNH PM44655	Metarhinus fluviatilis	39	36.6
NA	UCM 44939	Metarhinus fluviatilis	43.5	36.1
NA	UCMP 81278	Metarhinus fluviatilis	40	37.5
NA	YPM 13125	Metarhinus fluviatilis	35.9	39.1
NA	AMNH 13166	Metarhinus sp.	42.5	36.7
NA	AMNH 1864	Metarhinus sp.	38	37.1
NA	AMNH 1946	Metarhinus sp.	35.7	34.7
NA	CMNH 16736	Metarhinus sp.	39.5	36
NA	CMNH 3098	Metarhinus sp.	40.3	36.3
NA	CMNH 9409	Metarhinus sp.	42.5	36.8
NA	FMNH P12169	Metarhinus sp.	39.5	39.9
NA	FMNH P12194	Metarhinus sp.	35.7	34.5
NA	FMNH PM1519	Metarhinus sp.	39	36
NA	FMNH PM1731	Metarhinus sp.	43.1	37.9
NA	FMNH PM28345	Metarhinus sp.	43.4	39.2
NA	FMNH PM28348	Metarhinus sp.	39.5	34.9
NA	FMNH PM30432	Metarhinus sp.	43	36.8
NA	FMNH PM35932	Metarhinus sp.	41.6	33.6
NA	FMNH PM36054	Metarhinus sp.	44.2	39.7
NA	LACM/CIT 2037	Metarhinus sp.	43.7	40.1
NA	AMNH 20008	"Metatelmatherium?" browni	57.9	55
NA	AMNH 2004	Metatelmantherium ultimum	52.3	50.8
NA	AMNH 2033	Metatelmantherium ultimum	42	43.9
NA	AMNH 2060	Metatelmantherium ultimum	56.8	54.8
NA	AMNH 26411	Metatelmantherium ultimum	51.4	57.4
NA	CMNH 2388	Metatelmantherium ultimum	58.6	58.8
NA	UCMP 81447	Metatelmantherium ultimum	44	40.5
ASIA	AMNH 26101	Metatitan primus	85.9	67.3
ASIA	AMNH 26391	Metatitan relictus	83.9	63.4
ASIA	AMNH 26395	Metatitan relictus	78.9	75
ASIA	AMNH 26396	Metatitan relictus	77.6	69.1
ASIA	AMNH 26397	Metatitan relictus	83.9	71
ASIA	AMNH 26398	Metatitan relictus	88.8	71.2
ASIA	AMNH 26399	Metatitan relictus	83	68
ASIA	PIN 3745-12	Metatitan khaitshinus	79.1	60.4
ASIA	PIN 3745-1	Metatitan khaitshinus	73.8	60
ASIA	PIN 3745-11	Metatitan khaitshinus	78.1	64.7
ASIA	PIN 3745-3	Metatitan khaitshinus	90.2	66.8
ASIA	AMNH 21611	Microtitan mongoliensis	38.5	32
NA	USNM 16646	Notiotitanops mississippiensis	56.6	55
ASIA	AMNH 20354	Parabrontops gobiensis	83	72.7
ASIA	AMNH 26020	Parabrontops gobiensis	71.3	60.1

ASIA	PIN 473-311	Protembolotherium efremovi	79	69
ASIA	AMNH 20103	Protitan grangeri	74.9	61.4
ASIA	AMNH 20114	Protitan grangeri	78.5	61.5
ASIA	AMNH 20120	Protitan grangeri	64.2	56.8
ASIA	AMNH 26104	Protitan grangeri	74.3	62.5
ASIA	AMNH 26416	Protitan minor	66.7	56.8
ASIA	AMNH 26417	Protitan minor	68.5	57.3
NA	LACM/CIT 2007	Protitanops curryi	75.5	69
NA	LACM/CIT 2143	Protitanops curryi	66.9	65.3
NA	TMM 41723-3	Protitanotherium emarginatum	64.7	55.7
NA	TMM 41723-6	Protitanotherium emarginatum	62.8	54.4
NA	TMM 41747-106	Protitanotherium emarginatum	77.3	63.9
ASIA	IVPP V6521	Pygmaetitan panxianensis	30.3	31.2
ASIA	IVPP V6522	Pygmaetitan panxianensis	32.3	29.9
ASIA	AMNH 20254	Rhinotitan andrewsi	79.2	74.2
ASIA	AMNH 20261	Rhinotitan andrewsi	70.1	64.1
ASIA	AMNH 20263	Rhinotitan andrewsi	83.2	69
ASIA	AMNH 20271	Rhinotitan andrewsi	84.9	74.5
ASIA	IVPP V3254-1	Rhinotitan andrewsi	87.4	74.4
ASIA	IVPP V3254-2	Rhinotitan andrewsi	82.2	72
ASIA	IVPP V3254-1	Rhinotitan andrewsi	87.4	74.4
ASIA	IVPP V3254-2	Rhinotitan andrewsi	82.2	72
ASIA	PIN 2198-5	Rhinotitan andrewsi	72	63
ASIA	PIN 7130-3	Rhinotitan andrewsi	83.2	69.4
ASIA	AMNH 20252	Rhinotitan kaiseni	68	68.1
ASIA	AMNH 20257	Rhinotitan kaiseni	71.4	67
ASIA	FMNH P14048	Rhinotitan kaiseni	72.8	59.7
NA	DMNH 2830	Sphenocoelus uintensis	54.6	45
NA	DMNH 29411	Sphenocoelus uintensis	50.5	44.7
NA	DMNH 507	Sphenocoelus uintensis	50.5	40.5
NA	DMNH 541	Sphenocoelus uintensis	56.1	47
NA	UCMP 81301	Sphenocoelus uintensis	49.5	40.1
NA	DMNH 506	Sphenocoelus uintensis	53.1	44.5
NA	UCMP 81422	Sphenocoelus uintensis	46.2	43.8
NA	CMNH 11437	Sthenodectes incisivum	51.4	51.2
NA	CMNH 2398	Sthenodectes incisivum	53.4	47.7
NA	FMNH P12165	Sthenodectes incisivum	49	50.3
NA	AMNH 12194	Telmatherium validus	45.3	42.3
NA	AMNH 12214	Telmatherium validus	46	42.9
NA	AMNH 12678	Telmatherium validus	47.1	45.8
NA	AMNH 12683	Telmatherium validus	42.9	42.1
NA	AMNH 1511	Telmatherium validus	45.7	42.6
NA	AMNH 1532	Telmatherium validus	50.2	46.7
NA	AMNH 1570	Telmatherium validus	47.4	46
NA	AMNH 1587	Telmatherium validus	58.4	45.4
NA	AMNH 2354	Telmatherium validus	44.8	41.1
NA	UCM 73736	Telmatherium validus	46.2	46.7

NA	USNM 26119	Telmatherium validus	44.6	42.8
NA	YPM 16729	Telmatherium validus	44.5	43.4
NA	YPM 47288	Telmatherium validus	47.3	46.3
NA	YPM PU10027	Telmatherium validus	44.8	42.2
NA	YPM PU25022	Telmatherium validus	55.7	50.4
NA	CMNH 11380	Wickia brevirhinus	53.8	49.9
NA	CMNH 11382	Wickia brevirhinus	47.6	48.2
NA	UCMP 81300	Wickia brevirhinus	51.3	51.6
NA	SDSMN 92046	Parvicornus occidentalis	70.9	63.7
NA	SDSMN 92050	Parvicornus occidentalis	56.1	50.2
NA	SDSMN 92051	Parvicornus occidentalis	64.6	60.2
NA	SDSMN 92054	Parvicornus occidentalis	61.2	58.5
NA	SDSMN 92098	Parvicornus occidentalis	61.8	56.6
NA	SDSMN 93245	Parvicornus occidentalis	58.6	55.5
NA	SDSMN 93322	Parvicornus occidentalis	66.7	59.5
NA	SDSMN 93464	Parvicornus occidentalis	66	60.6
NA	SDSMN 105789	Parvicornus occidentalis	62.3	58.3
NA	SDSMN 107665	Parvicornus occidentalis	57.8	56.5
NA	SDSMN 107666	Parvicornus occidentalis	61.3	53.9
NA	SDSMN 107667	Parvicornus occidentalis	60.6	55.1
NA	SDSMN 107669	Parvicornus occidentalis	53.2	55.7
NA	SDSMN 107728	Parvicornus occidentalis	57.8	50.9