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## SUPPLEMENTARY ONLINE MATERIAL FOR

### **The sauropodomorph biostratigraphy of the Elliot Formation of southern Africa: Tracking the evolution of Sauropodomorpha across the Triassic–Jurassic boundary**

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#### **Supplementary Online Material**

**Table S1.** Age range estimates for the taxa included in the analyses.

**Table S2.** Results of stratigraphic congruence analyses for our old hypothesis of Elliot sauropodomorph ranges.

**Table S3.** Results of stratigraphic congruence analyses for our new hypothesis of Elliot sauropodomorph ranges.

#### **Scripts and supporting files available at**

[http://app.pan.pl/SOM/app62-McPhee\\_etal\\_SOM/McPhee et al\\_2017\\_R script.R](http://app.pan.pl/SOM/app62-McPhee_etal_SOM/McPhee_et_al_2017_R_script.R)

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[http://app.pan.pl/SOM/app62-McPhee\\_etal\\_SOM/age\\_range\\_old.txt](http://app.pan.pl/SOM/app62-McPhee_etal_SOM/age_range_old.txt)

[http://app.pan.pl/SOM/app62-McPhee\\_etal\\_SOM/sauropodomorph\\_matrix\\_BWM.NEXUS](http://app.pan.pl/SOM/app62-McPhee_etal_SOM/sauropodomorph_matrix_BWM.NEXUS)

[http://app.pan.pl/SOM/app62-McPhee\\_etal\\_SOM/communities\\_LTR\\_EJR.csv](http://app.pan.pl/SOM/app62-McPhee_etal_SOM/communities_LTR_EJR.csv)

[http://app.pan.pl/SOM/app62-McPhee\\_etal\\_SOM/communities\\_UEF\\_LEF.csv](http://app.pan.pl/SOM/app62-McPhee_etal_SOM/communities_UEF_LEF.csv)

SUPPLEMENTARY INFORMATION FOR: “The sauropodomorph (Dinosauria) biostratigraphy of the Elliot Formation of southern Africa: tracking the evolution of Sauropodomorpha across the Triassic–Jurassic boundary”

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**Table S1.** Age range estimates for the taxa included in the analyses. OE = Our Estimate; PBDB = The Paleobiology Database; \* = Previous age estimate.

TAXON	FAD	LAD	REFERENCE
<i>Euparkeria</i>	247.2	242	PBDB
<i>Marasuchus</i>	242	235	PBDB
<i>Aardonyx</i>	201.3	190.8	OE
<i>Adeopapposaurus</i>	201.3	182.7	Martinez, 2009
<i>Anchisaurus</i>	201.3	190.8	PPDB
<i>Antetonitrus</i>	201.3	190.8	OE
<i>Antetonitrus*</i>	208.5	201.3	OE
<i>Barapasaurus</i>	182.7	170.3	OE; Parmar et al., 2013
<i>Blikanasaurus</i>	208.5	201.3	OE
<i>Camelotia</i>	208.5	201.3	PBDB
<i>Cetiosaurus</i>	170.3	163.5	PBDB, Upchurch and Martin, 2003
<i>Chindesaurus</i>	227	208.5	PBDB
<i>Chromogisaurus</i>	231.4	225.9	Martinez et al., 2011, 2013
<i>Coloradisaurus</i>	220	213	Kent et al., 2014
<i>Efraasia</i>	215.56	212	PBDB
<i>Eoraptor</i>	231.4	225.9	Martinez et al., 2011, 2013
<i>Eucnemesaurus_fortis</i>	208.5	201.3	OE
<i>Eucnemesaurus_entaxonis</i>	208.5	201.3	OE
<i>Glacialisaurus</i>	196.5	183	Smith and Pol, 2007
<i>Gongxianosaurus</i>	182.7	174.1	PBDB; Chen et al., 2006
<i>Guaibasaurus</i>	227	208.5	PBDB; Langer et al., 2010
<i>Herrerasaurus</i>	231.4	225.9	Martinez et al., 2011, 2013
<i>Isanosaurus</i>	190.8	174.1	OE; Racey and Goodall, 2009
<i>Jingshanosaurus</i>	201.3	189.6	PBDB
<i>Leoneosaurus</i>	196.5	182.7	Pol et al., 2011
<i>Lessemsaurus</i>	220	213	Kent et al., 2014
<i>Leyesaurus</i>	201.3	182.7	Apaldetti et al., 2011
<i>Lufengosaurus</i>	201.3	189.6	PBDB
<i>Mamenchisaurus</i>	163.5	145.5	PBDB
<i>Massospondylus</i>	201.3	190.8	OE
<i>Mussaurus</i>	227	208.5	Pol and Powell, 2007; Otero and Pol, 2013
NMQR3314	201.3	190.8	OE
NMQR3314*	208.5	201.3	OE
NMQR1551	208.5	201.3	OE
<i>Omeisaurus</i>	168.3	157.3	PBDB, He et al., 1988

<i>Panphagia</i>	231.4	225.9	Martinez et al., 2011, 2013
<i>Pantyraco</i>	227	201.3	Benton et al., 2000; Yates, 2003c
<i>Patagosaurus</i>	164.7	161.2	PBDB
<i>Plateosaurus engelhardti</i>	208.5	201.3	PBDB; Yates, 2003b
<i>Plateosaurus gracilis</i>	220	209	PBDB
<i>Plateosauravus</i>	208.5	201.3	OE
<i>Pulanesaura</i>	201.3	190.8	OE
<i>Riojasaurus</i>	220	213	Kent et al., 2014
<i>Ruehleia</i>	221.5	205.6	PBDB
<i>Sarahsaurus</i>	201.3	182.7	Rowe et al., 2011
<i>Saturnalia</i>	235	221.5	Langer et al., 2010
<i>Seitaad</i>	190.8	182.7	Sertich and Loewen, 2010
<i>Shunosaurus</i>	166.1	163.5	PBDB; Chatterjee and Zheng, 2002
<i>Silesaurus</i>	236	228	PBDB
<i>Spinophorosaurus</i>	175.6	161.2	Remes et al., 2009
<i>Staurikosaurus</i>	235	221.5	PBDB; Langer et al., 2010
<i>Tazoudasaurus</i>	182.7	174.1	Allain and Aquesbi, 2008
<i>Thecodontosaurus</i>	227	201.3	Benton et al., 2000
<i>Unaysaurus</i>	227	208.5	Langer et al., 2010
<i>Vulcanodon</i>	185	175	OE; Yates et al., 2004
<i>Xingxiulong</i>	201.3	189.6	PBDB; Wang et al., 2017
<i>Yunnanosaurus</i>	201.3	189.6	PBDB

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**Table S2.** Results of stratigraphic congruence analyses for our old hypothesis of Elliot sauropodomorph ranges. See Bell and Lloyd (2015) for details.

	SCI	RCI	GER	MSM*	est.p.SCI	est.p.RCI	est.p.GER	est.p.MSM	GER*	GERT	MIG	p.Wills
tree_1	0.528302	22.55659	0.817786	0.179099	1.12E-10	2.45E-11	6.32E-18	2.07E-47	1	1	467.34	0
tree_2	0.528302	22.55659	0.817786	0.179099	1.12E-10	2.45E-11	6.32E-18	2.07E-47	1	1	467.34	0
tree_3	0.528302	22.55659	0.817786	0.179099	1.12E-10	2.45E-11	6.32E-18	2.07E-47	1	1	467.34	0
tree_4	0.509434	18.29782	0.80558	0.169763	4.85E-09	3.33E-11	1.05E-16	2.79E-41	1	1	493.04	0
tree_5	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_6	0.528302	21.38004	0.814414	0.176419	1.12E-10	2.67E-11	1.40E-17	1.28E-45	1	1	474.44	0
tree_7	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_8	0.528302	21.38004	0.814414	0.176419	1.12E-10	2.67E-11	1.40E-17	1.28E-45	1	1	474.44	0
tree_9	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_10	0.528302	22.55659	0.817786	0.179099	1.12E-10	2.45E-11	6.32E-18	2.07E-47	1	1	467.34	0
tree_11	0.509434	18.29782	0.80558	0.169763	4.85E-09	3.33E-11	1.05E-16	2.79E-41	1	1	493.04	0
tree_12	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_13	0.528302	21.38004	0.814414	0.176419	1.12E-10	2.67E-11	1.40E-17	1.28E-45	1	1	474.44	0
tree_14	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_15	0.509434	18.29782	0.80558	0.169763	4.85E-09	3.33E-11	1.05E-16	2.79E-41	1	1	493.04	0
tree_16	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_17	0.509434	17.12127	0.802208	0.167353	4.85E-09	3.62E-11	2.20E-16	9.48E-40	1	1	500.14	0
tree_18	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_19	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_20	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_21	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_22	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_23	0.528302	21.38004	0.814414	0.176419	1.12E-10	2.67E-11	1.40E-17	1.28E-45	1	1	474.44	0
tree_24	0.509434	17.12127	0.802208	0.167353	4.85E-09	3.62E-11	2.20E-16	9.48E-40	1	1	500.14	0
tree_25	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_26	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_27	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_28	0.509434	18.29782	0.80558	0.169763	4.85E-09	3.33E-11	1.05E-16	2.79E-41	1	1	493.04	0
tree_29	0.54717	24.46227	0.823248	0.183617	1.77E-12	2.14E-11	1.70E-18	1.73E-50	1	1	455.84	0
tree_30	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_31	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_32	0.509434	17.12127	0.802208	0.167353	4.85E-09	3.62E-11	2.20E-16	9.48E-40	1	1	500.14	0
tree_33	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_34	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_35	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_36	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_37	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_38	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_39	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_40	0.509434	17.12127	0.802208	0.167353	4.85E-09	3.62E-11	2.20E-16	9.48E-40	1	1	500.14	0
tree_41	0.54717	23.28572	0.819876	0.180801	1.77E-12	2.32E-11	3.84E-18	1.46E-48	1	1	462.94	0
tree_42	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_43	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_44	0.528302	20.20349	0.811042	0.173817	1.12E-10	2.90E-11	3.05E-17	6.63E-44	1	1	481.54	0
tree_45	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_46	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_47	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0
tree_48	0.528302	19.02694	0.80767	0.171292	1.12E-10	3.16E-11	6.55E-17	2.91E-42	1	1	488.64	0

**Table S3.** Results of stratigraphic congruence analyses for our new hypothesis of Elliot sauropodomorph ranges. See Bell and Lloyd (2015) for details.

	SCI	RCI	GER	MSM*	est.p.SCI	est.p.RCI	est.p.GER	est.p.MSM	GER*	GERT	MIG	p.Wills
tree_1	0.528302	21.034	0.812231	0.173745	3.72E-10	1.33E-11	6.55E-16	1.70E-40	1	1	481.74	0
tree_2	0.528302	21.034	0.812231	0.173745	3.72E-10	1.33E-11	6.55E-16	1.70E-40	1	1	481.74	0
tree_3	0.528302	21.034	0.812231	0.173745	3.72E-10	1.33E-11	6.55E-16	1.70E-40	1	1	481.74	0
tree_4	0.509434	16.8213	0.800108	0.164946	1.27E-08	1.82E-11	7.62E-15	2.34E-35	1	1	507.44	0
tree_5	0.54717	22.91906	0.817656	0.177994	7.77E-12	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_6	0.528302	19.87018	0.808882	0.171222	3.72E-10	1.46E-11	1.31E-15	5.37E-39	1	1	488.84	0
tree_7	0.54717	22.91906	0.817656	0.177994	7.77E-12	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_8	0.528302	19.87018	0.808882	0.171222	3.72E-10	1.46E-11	1.31E-15	5.37E-39	1	1	488.84	0
tree_9	0.528302	22.91906	0.817656	0.177994	3.72E-10	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_10	0.528302	21.034	0.812231	0.173745	3.72E-10	1.33E-11	6.55E-16	1.70E-40	1	1	481.74	0
tree_11	0.509434	16.8213	0.800108	0.164946	1.27E-08	1.82E-11	7.62E-15	2.34E-35	1	1	507.44	0
tree_12	0.54717	22.91906	0.817656	0.177994	7.77E-12	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_13	0.528302	19.87018	0.808882	0.171222	3.72E-10	1.46E-11	1.31E-15	5.37E-39	1	1	488.84	0
tree_14	0.528302	22.91906	0.817656	0.177994	3.72E-10	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_15	0.509434	16.8213	0.800108	0.164946	1.27E-08	1.82E-11	7.62E-15	2.34E-35	1	1	507.44	0
tree_16	0.54717	22.91906	0.817656	0.177994	7.77E-12	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_17	0.509434	15.65748	0.796758	0.16267	1.27E-08	1.99E-11	1.46E-14	4.52E-34	1	1	514.54	0
tree_18	0.509434	18.70636	0.805532	0.16877	1.27E-08	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_19	0.528302	18.70636	0.805532	0.16877	3.72E-10	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_20	0.54717	21.75524	0.814307	0.175347	7.77E-12	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_21	0.528302	21.75524	0.814307	0.175347	3.72E-10	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_22	0.528302	21.75524	0.814307	0.175347	3.72E-10	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_23	0.528302	19.87018	0.808882	0.171222	3.72E-10	1.46E-11	1.31E-15	5.37E-39	1	1	488.84	0
tree_24	0.509434	15.65748	0.796758	0.16267	1.27E-08	1.99E-11	1.46E-14	4.52E-34	1	1	514.54	0
tree_25	0.54717	21.75524	0.814307	0.175347	7.77E-12	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_26	0.528302	22.91906	0.817656	0.177994	3.72E-10	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_27	0.509434	18.70636	0.805532	0.16877	1.27E-08	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_28	0.509434	16.8213	0.800108	0.164946	1.27E-08	1.82E-11	7.62E-15	2.34E-35	1	1	507.44	0
tree_29	0.54717	22.91906	0.817656	0.177994	7.77E-12	1.16E-11	2.08E-16	4.55E-43	1	1	470.24	0
tree_30	0.528302	18.70636	0.805532	0.16877	3.72E-10	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_31	0.528302	21.75524	0.814307	0.175347	3.72E-10	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_32	0.509434	15.65748	0.796758	0.16267	1.27E-08	1.99E-11	1.46E-14	4.52E-34	1	1	514.54	0
tree_33	0.54717	21.75524	0.814307	0.175347	7.77E-12	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_34	0.509434	18.70636	0.805532	0.16877	1.27E-08	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_35	0.528302	18.70636	0.805532	0.16877	3.72E-10	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_36	0.509434	17.54254	0.802183	0.166388	1.27E-08	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_37	0.528302	17.54254	0.802183	0.166388	3.72E-10	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_38	0.528302	21.75524	0.814307	0.175347	3.72E-10	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_39	0.509434	17.54254	0.802183	0.166388	1.27E-08	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_40	0.509434	15.65748	0.796758	0.16267	1.27E-08	1.99E-11	1.46E-14	4.52E-34	1	1	514.54	0
tree_41	0.54717	21.75524	0.814307	0.175347	7.77E-12	1.26E-11	4.24E-16	1.85E-41	1	1	477.34	0
tree_42	0.528302	17.54254	0.802183	0.166388	3.72E-10	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_43	0.509434	18.70636	0.805532	0.16877	1.27E-08	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_44	0.528302	18.70636	0.805532	0.16877	3.72E-10	1.59E-11	2.59E-15	1.47E-37	1	1	495.94	0
tree_45	0.509434	17.54254	0.802183	0.166388	1.27E-08	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_46	0.528302	17.54254	0.802183	0.166388	3.72E-10	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_47	0.509434	17.54254	0.802183	0.166388	1.27E-08	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0
tree_48	0.528302	17.54254	0.802183	0.166388	3.72E-10	1.73E-11	5.06E-15	3.50E-36	1	1	503.04	0