

Supplementary material. Sauropod trackways of the Iberian Peninsula: palaeoetological and palaeoenvironmental implications. D. Castanera, B.Vila, N.L. Razzolini, V.F. Santos, C. Pascual, J.I. Canudo. Journal of Iberian Geology 40 (1) 2014: 49-59. http://dx.doi.org/10.5209/rev_JIGE.2014.v40.n1.44087

Tracksite	Formation (Age)	Area (m ²)	Trackway	Orientation	Speed (Km/h)	Mean Pes Length (cm)	Mean Intertrackway Space (m)	Width of the group /Transect length (m)	Gregarious behaviour	Ichnotype	Environment
Galinha	Serra de Aire (Bajocian–Bathonian)	about 40.000	G1	53	4	95 (Large)	x	x	None	<i>Polyonyx</i> -like	Coastal
			G2	357/7 (302)	5.1	80 (Large)	x	x	None	<i>Polyonyx</i> -like	
			G3	355	x	x	x	x	None	Sauropoda indet	
			G4	36	x	x	x	x	None	Sauropoda indet	
			G5	271/251 /243 (255)	4.1	90 (Large)	x	x	None	<i>Polyonyx</i> -like	
			G6	90/96 (93)	x	manus-only	x	x	None	Sauropoda indet	
			G7	115/81 (98)	x	manus-only	x	x	None	Sauropoda indet	
			G8	105	x	manus-only	x	x	None	Sauropoda indet	
			G9	192/211 (201)	x	manus-only	x	x	None	Sauropoda indet	
			G10	291	x	manus-only	x	x	None	Sauropoda indet	
Avelino level 3	Azoia Unit (Kimmeridgian)	about 100	AVL-N3-P1	260	2.47	45 (small)	x	x	None	<i>Parabrontopodus/ Breviparopus</i> -like	Coastal
			AVL-N3-P2	115	3.05	30 (small)	x	x	None	<i>Parabrontopodus/ Breviparopus</i> -like	
			AVL-N3-P3	45	4.05	55 (medium)	x	x	None	<i>Parabrontopodus/ Breviparopus</i> -like	
			AVL-N3-P4	315	2.13	100 (Large)	x	x	None	<i>Parabrontopodus/ Breviparopus</i> -like	
			AVL-N3-P5	65	2.92	45 (small)	x	x	None	<i>Parabrontopodus/ Breviparopus</i> -like	
Pedra da Mua level 3	Espichel Unit (Tithonian)	more than 8.400	PM-N3-P1	115	x	x	6.8	22,4	Group 1	<i>Brontopodus</i> -like	Coastal
			PM-N3-P2	114	4.8	46 (small)	8.5	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P3	113	5	38 (small)	5.2	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P4	113-119 (116)	4.4	40 (small)	3.2	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P5	118-122 (120)	4.8	42 (small)	1.6	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P6	122	3.6	45 (small)	1.46	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P7	123	4.4	40 (small)	x	22,4	Group 1	<i>Brontopodus</i> -like	
			PM-N3-P8	147	3.4	70 (medium)	about 30 (PM-N3-P8 and PM-N3-P10)	about 40	Group 2	<i>Brontopodus</i> -like	
			PM-N3-P9	315	x	x	x	x	None	<i>Brontopodus</i> -like	
			PM-N3-P10	153	4.1	70 (medium)	7.6 (PM-N3-P10 and PM-N3-P11)	about 40	Group 2	<i>Brontopodus</i> -like	
			PM-N3-P11	154	4.1	73 (medium)	x	about 40	Group 2	<i>Brontopodus</i> -like	

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Tracksite	Formation (Age)	Area (m ²)	Trackway	Orientation	Speed (Km/h)	Mean Pes Length (cm)	Mean Intertrackway Space (m)	Width of the group /Transect length (m)	Gregarious behaviour	Ichnotype	Environment
Pedra da Mua level 5	Espichel Unit (Tithonian)	<i>about 2900</i>	PM-N5-P1	326	4.6	65 (medium)	x	x	None	<i>Brontopodus</i> -like	Coastal
			PM-N5-P2	218/244/270 (244)	x	80 (large)	x	x	None	<i>Brontopodus</i> -like	
			PM-N5-P3	124/149 (136)	3.1	69 (medium)	about 10 (PM-N5-P3 and PM-N5-P4)	x	¿?	<i>Brontopodus</i> -like	
			PM-N5-P4	152	4.8	60 (medium)	about 10 (PM-N5-P3 and PM-N5-P4)	x	¿?	<i>Brontopodus</i> -like	
			PM-N5-P5	325	x	manus-only	x	x	None	<i>Brontopodus</i> -like	
Las Cerradicas	Villar del Arzobispo (Berriasian)	<i>about 80</i>	LCR9	315	2.4	29 (small)	0.57	4,95	Group 1	<i>Brontopodus</i> -like	Coastal
			LCR10	315	2.7	24 (tiny)	0.9	4,95	Group 1	<i>Brontopodus</i> -like	
			LCR11	320-315 (317)	x	x	0.95	4,95	Group 1	<i>Brontopodus</i> -like	
			LCR12	324	1.6	28 (small)	0.74	4,95	Group 1	<i>Brontopodus</i> -like	
			LCR13	314	2.6	28 (small)	0.95	4,95	Group 1	<i>Brontopodus</i> -like	
			LCR14	312	2.7	24 (tiny)	x	4,95	Group 1	<i>Brontopodus</i> -like	
Miraflores I level VIII	Huérteles (Berriasian)	<i>more than 155</i>	MI-VIII-B-2	347-316	2,3	55 (medium)	0,83 (B-2 and B-4)	4.92	Group?	<i>Brontopodus</i> -like?	Inland?
			MI-VIII-B-3	331	1.8	53 (medium)	1,01 (B-3 and B4)	4.92	Group?	<i>Brontopodus</i> -like?	
			MI-VIII-B-4	0/8	1.8	29 (small)	x	4.92	Group?	<i>Brontopodus</i> -like?	
Las Cuestas I level II	Huérteles (Berriasian)	<i>about 1500?</i>	LCU-I-17	220	3.13	57.71 (medium)	1,51 (LCU-I-17-LCU-I-18)	3,05 m	¿?	<i>Parabrontopodus/Breviparopus</i> -like	Inland?
			LCU-I-18	200-205 (202)	2.95	48 (small)	x	x	¿?	<i>Parabrontopodus/Breviparopus</i> -like	
			LCU-I-20	210	2.56	52.14 (medium)	0,43 (LCU-I-20-LCU-I-22)	6.15 m	Group 1	<i>Parabrontopodus/Breviparopus</i> -like	
			LCU-I-22	210	3.1	50.2 (medium)	1,09 (LCU-I-22-LCU-I-23)	x	Group 1	<i>Parabrontopodus/Breviparopus</i> -like	
			LCU-I-23	240	2.8?	55 (medium)	x	x	Group 1	<i>Parabrontopodus/Breviparopus</i> -like	

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Las Cuestas I level II	Huérteles (Berriasian)	about 1500?	LCU-I-25	255	2.63	52.86 (medium)	1,95 (LCU-I-20-LCU-I-25)	x	Group 1	Parabrontopodus/Breviparopus-like	Inland?
			LCU-I-28	40	3.31	48.5 (small)	4,20 (LCU-I-28-LCU-I-25)	x	Group 1?	Parabrontopodus/Breviparopus-like	
			LCU-I-29	305	3.35	49.75 (small)	x	x	None	Parabrontopodus/Breviparopus-like	
			LCU-I-31	230	2.77	57.66 (medium)	x	x	¿?	Parabrontopodus/Breviparopus-like	
			LCU-I-32	220	3.13	49 (small)	0,88 (LCU-I-32 and LCU-I-33)	5,9 m	Group 2	Parabrontopodus/Breviparopus-like	
			LCU-I-33	207	3.31	51.9 (medium)	0,58 (LCU-I-33 and LCU-I-34)	x	Group 2	Parabrontopodus/Breviparopus-like	
			LCU-I-34	240	2.56	59 (medium)	1,50 (LCU-I-34 and LCU-I-35)	x	Group 2	Parabrontopodus/Breviparopus-like	
			LCU-I-35	212	3.02	54 (medium)	x	x	Group 2	Parabrontopodus/Breviparopus-like	
			LCU-I-39	265	2.77	62 (medium)	6 m (LCU-I-39 and LCU-I-45)	x	¿?	Parabrontopodus/Breviparopus-like	
			LCU-I-45	232-235 (233)	2.63	49.54	x	x	¿?	Parabrontopodus/Breviparopus-like	
Las Cuestas I level III	Huérteles (Berriasian)	about 1500?	LCU-I-14	130	2.59	73 (medium)	x	x	None	Parabrontopodus/Breviparopus-like	Inland?
			LCU-I-16	230	2.81	65 (medium)	x	x	None	Parabrontopodus/Breviparopus-like	
			LCU-I-37	295/310 (302)	2.9	72.7	x	x	None	Parabrontopodus/Breviparopus-like	
			LCU-I-38	232	3.42	56.6 (medium)	x	x	None	Parabrontopodus/Breviparopus-like	
			LCU-I-48	210	3.17	56.5 (medium)	x	x	None	Parabrontopodus/Breviparopus-like	

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Fumanya Sud	Tremp (Maastrichtian)	<i>more than</i> 11.800	FS#3	274/12 (323)	x	manus-only	x	x	None	<i>Brontopodus</i> -like	Coastal
			FS#5	236/211/ 257/210 (228)	x	bad preservation	x	x	None	<i>Brontopodus</i> -like	
			FS#6	6	x	70 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#8	213/352/ 17 (314)	x	manus-only	x	x	None	<i>Brontopodus</i> -like	
			FS#9	324/345/ 315 (328)	3,22	61 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#12	7	x	70 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#13	37/76/ 56 (56)	x	bad preservation	x	x	None	<i>Brontopodus</i> -like	
			FS#15	342/7 (354)	x	70 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#21	150/130/ 221/193 (175)	3,70	60,8 (medium)	6, 57	x	Group 2	<i>Brontopodus</i> -like	
			FS#22	213/0/ 201 (258)	3,31	59,1 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#24	257/290 (273)	2,75	65,64 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#26	135/150 (142)	3,17	60,3 (medium)	6, 57	x	Group 2	<i>Brontopodus</i> -like	
			FS#27	253	2,99	56,14 (medium)	5, 17	x	Group 1	<i>Brontopodus</i> -like	
			FS#28	256	2,45	68,42 (medium)	5, 17	x	Group 1	<i>Brontopodus</i> -like	
			FS#29	13	3,19	71,24 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#31	13	3,66	64,79 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#30	301	x	bad preservation	x	x	None	<i>Brontopodus</i> -like	
			FS#32	190	3,20	62,47 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#37	230	3,59	62,47 (medium)	x	x	None	<i>Brontopodus</i> -like	
			FS#36	92	x	manus-only	x	x	None	<i>Brontopodus</i> -like	
FS#40	6	x	manus-only	x	x	None	<i>Brontopodus</i> -like				

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Supplementary online material.- Main characteristics of the sauropod trackways from the studied Iberian sauropod tracksites. x denotes no values, ? uncertainty in the values, manus-only and poor preservation indicate that due to the preservation we can only calculate the orientation of the trackways but not indicate any value for the mean pes length. The trackways with more than one value for the orientation are turning trackways.