SUPPLEMENTARY DATA 1

Cheirogaster bacharidisi sp. nov., a new species of a giant tortoise from the Pliocene of
Thessaloniki (Macedonia, Greece)

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In this file we include some supplementary information for the reader: a detailed inventory of the studied material; a graphical explanation of the bone measurements, and tables of measurements of the most important specimens presented in this study; information about European Neogene localities with findings of giant tortoises, and further photographic documentation and graphical illustrations of the presented material, accompanied by photographs and drawings of the comparative material.

Institutional Abbreviations—**AMPG**, Museum of Palaeontology and Geology of the National and Kapodistrian University of Athens, Greece; **BSPG**, Bayerische Staatssammlung für Paläontologie und Geologie, Munich, Germany; **IPS**, Institut Català de Paleontologia, Spain; **MCMP**, Paleontological Museum of Murcia, Spain; **MGUS**, Museum of Salamanca, Spain; **LGPOT**, Laboratory of Geology and Paleontology, University of Thessaloniki, Greece; **MNHN**, Muséum National d'Histoire Naturelle, Paris, France; **NHMW**, Naturhistorisches Museum, Vienna, Austria; **NWS**, Naturmuseum Winterthur, Switzerland; **PIMUZ**, Paläontologische Institut und Museum, Universität Zurich, Switzerland; **VM**, Vrisa Museum of Natural History, Lesvos, Greece.

List of Comparative Material with Direct Comparisons

AMPG 1874; intermedium, Pikermi, Greece; AMPG 1880; left epiplastron, Pikermi, Greece; BSPG 1959 II 2033; shell and postcranial elements, Sandelzhausen, Germany; MNHN 1887–26; *Cheirogaster perpiniana*, shell and postcranial elements, Perpignan, France; MNHN 1921-5-SLQ (995-1031); postcranial material from Karaburun, Thessaloniki, Greece; MNHN SG 289–290; *Cheirogaster eury sternum*, anterior plastron, Saint–Gerand–le–Puy, France; MNHN AR 538; *Cheirogaster ginsburgi*, femur, Artenay, France; NHMW 2009z0103/0001; *Cheirogaster schafferi*, cranium, Samos, Greece; NHMW 1911/0005/0275; *Cheirogaster schafferi*, femur, Samos, Greece; NWS 13758; *Cheirogaster vitodurana*, plastron, Winterthur, Switzerland; PIMUZ A/III 660; *Cheirogaster vitodurana*, shell, Veiltheim, Switzerland.

Detailed Inventory Record of the Studied Material

The material is registered in the collection of LGPUT.

Holotype—Individual EPN I (EPANOMI, LGPUT EPN 100–LGPUT EPN 199i): 100, carapace (left and right peripherals); 101, plastron; 102, cranium and mandible; 103, right humerus; 104, left humerus; 105, left scapula; 105a, left coracoid; 106, right scapula; 106a, right coracoid; 107, right femur; 108, right tibia; 109, right fibula; 110, left femur; 111, left tibia; 112, left fibula; 113, right radius; 114, left radius; 115, pelvis; 116, cervical vertebra; 117, cervical vertebra; 121, right intermedium; 122, right medial and lateral centrale; 123, right metacarpal; 124, right distal carpal; 125, right metacarpal; 126, phalanx I; 127, right metacarpal; 128, crural osteoderm; 129, carpal indet; 130, carpal indet; 131, anterior claw; 132, anterior claw; 133, anterior claw; 134, half-pointed osteoderm; 135, left medial and lateral centrale; 136, left intermedium; 137, carpal element?; 138, anterior claw; 139, anterior claw; 140, half-pointed osteoderms; 141, anterior claw; 142, half-pointed osteoderm; 143, phalanx I; 144, metacarpal right; 145, phalanx I; 146, right metacarpal; 147, left metacarpal; 148, phalanx I; 149, left metacarpal; 150, right astragalocalcaneum; 151, right 4th distal tarsal; 152, carpal indet.; 153, right distal tarsal; 154, right distal tarsal; 155, right metatarsal; 156, phalanx I; 157, crural osteoderm; 158, right distal tarsal; 159, phalanx i; 160, tubercle and associated osteoderms; 161, left metatarsal; 162, posterior claw; 163, left metatarsal; 164, phalanx I; 165, posterior claw; 166, left metatarsal; 167, left 4th distal tarsal; 168, left distal tarsal; 169, left distal tarsal; 170, anterior claw; 171, phalanx I; 172, right metatarsal; 173, left distal tarsal; 174, posterior claw; 175, phalanx I; 176, left ulna (fragment); 177, left distal tarsal; 178, left distal carpal; 179, left distal carpal; 180, left metacarpal; 181, left metacarpal; 182, left metacarpal; 183, carpal indet; 184, bony tubercle; 185–197, caudal vertebrae; 198, mandible (anterior part); 199a, half-pointed osteoderm; 199b, half-pointed osteoderm; 199c, half-pointed osteoderm; 199d, crural osteoderm; 199e, crural osteoderm; 199f, pointed osteoderm; 199g, pointed osteoderm; 199h, pointed osteoderm; 199i, pointed osteoderm.

Paratype—Individual EPN II (EPANOMI, LGPUT EPN 200–LGPUT EPN 287): 200, right humerus (distal); 201, right radius; 202, right ulna; 203, left humerus (diaphysis); 204, left radius; 205, left ulna; 206, right scapula; 207, right coracoid; 208, left scapula; 209, left coracoid; 210, right pubic fragment; 211, pelvic fragment; 212, femur right; 213, right tibia; 214, right astragalocalcaneum; 215, anterior claw; 216, anterior claw; 217, anterior claw; 218, anterior claw; 219, anterior claw; 220, phalanx I; 221, phalanx I; 222, phalanx I; 223, phalanx I; 224, phalanx I; 225, right distal carpal; 226, right intermedium; 227, right metacarpal; 228, right metacarpal; 229, right distal carpal; 230, metacarpal right; 231, pointed osteoderm; 232, half-pointed osteoderm; 233, half-pointed osteoderm; 234, pointed osteoderm; 235, pointed osteoderm; 236, pointed osteoderm; 237, flat osteoderm; 238, pointed osteoderm; 239, half-pointed osteoderm; 240, half-pointed osteoderm; 241, half-pointed osteoderm; 242, half-pointed osteoderm; 243, half-pointed osteoderm; 244, pointed osteoderm; 245, pointed osteoderm; 246, flat osteoderm; 247, pointed osteoderm; 248, half-pointed osteoderm; 249, flat osteoderm; 250, half-pointed osteoderm; 251, pointed osteoderm; 252, pointed osteoderm; 253, half-pointed osteoderm; 254, half-pointed osteoderm; 255–259, flat osteoderms; 260, half-pointed osteoderm; 261–271, flat osteoderms; 272, pointed osteoderm; 273, half-pointed osteoderm; 274, phalanx I; 275, flat osteoderm; 276, right fibula; 277, bone fragment indet; 278, bone fragment indet; 279, bone fragment indet; 280, right medial and lateral centrale; 281, right metacarpal; 282, right metacarpal; 283, carapace fragment; 284, posterior carapace; 285, plastron; 286, inguinal process fragment (8th–9th peripheral); 287, right anterior peripheral fragment (2nd–3rd peripheral).

Referred Material—Individual MIC (MICHANIONA, LGPUT MIC 301–LGPUT MIC 303): 301, left femur; 302, left tibia; 303, left fibula (same individual, in articulation); individual KKK (KALLIKRATIA, LGPUT KKK 501–LGPUT KKK 528): 501, right posterior pleural part (8th–10th peripheral); 502, plastron fragment; 503, left humerus proximal; 504, right femur; 505, right tibia; 506, right fibula; 507, right astragalocalcaneum; 508, right 1st distal tarsal; 509, right 2nd distal tarsal; 510, right 4th distal tarsal; 511, right 5th distal tarsal; 512, right 1st metatarsal; 513,

right 2nd metatarsal; 514, right 3rd metatarsal; 515, right 4th metatarsal; 516, right phalanx I; 517, right phalanx I; 518, right phalanx I; 519, right phalanx I; 520, right claw; 521, right claw; 522, right claw; 523, thigh tubercle; 524, thigh tubercle; 525, osteoderm; 526, osteoderm; 527, osteoderm; 528, osteoderm; site EPN (Epanomi area): LGPUT EPN 99, left femur (proximal).

FIGURE S1. The cranium of the holotype (LGPUT-EPN-102). **A**, right dorsolateral view, showing the extended upper temporal emargination. **B**, left dorsolateral view showing the extended emargination. **C**, posterodorsal view with the elongated crista supraoccipitalis. **D**, posterodorsal view showing the converging posterior tips of the squamosals. **E**, right dorsal view of the posterior part, showing the squamosal area. **F**, ventral view of the palatal area, with the preserved mandible. **G**, ventral view of the posterior part showing the condylus occipitalis and the squamosals. **H**, posterior view showing the condylus occipitalis and the foramen magnum. **I**, posteroventral view of the condylus occipitalis.

FIGURE S2. Additional photographs of the holotype. **A**, posterodorsal view of the cranium, in the recovery position on the anterior lobe, above the right scapula and a cervical vertebra. **B**, posterodorsal view of the plastron, showing the recovery position of the cranium and postcranial elements. **C**, posterior view of the pelvis on the recovery position on the posterior lobe. Note the weak xiphiplastral extremities. **D**, dorsal view of the anterior lobe, showing the dorsal entoplastron, both humeri and scapulae, and a cervical vertebra.

FIGURE S3. Photographs of the late Miocene Samos material, for comparison. Images courtesy of the NHMW. **A**, cranium (NHMW 2009z0103/0001) in dorsal view. Note the position of the orbits, and the almost parallel squamosal tips. **B**, cranium in right lateral view. Note the morphology of the cheek area, showing less emargination than the cranium of the holotype from Epanomi (LGPUT EPN 102). **C**, the femur (NHMW 1911/0005/0275), in posterior view. Note the straight midshaft. **D**, the femur in dorsal view. Note the head being almost perpendicular to the diaphysis.

FIGURE S4. Photographs of the late Miocene Pikermi material, for comparison. Images courtesy of the AMPG. **A–B**, left epiplastron of the Pikermi individual (AMPG 1880), previously identified as pleurals VII and VIII (in Bachmayer, 1967). Note the constriction in gularo–humeral sulcus. **C–F**, the Pikermi intermedium (AMPG 1874, C and E), compared with that of the paratype from Epanomi (LGPUT EPN 226, D and F). C and D, dorsal views; E and F, medial views.

FIGURE S5. Photographs of the Pliocene? Thessaloniki material (MNHN 1921-5/SLQ-995), for comparison (images courtesy of MNHN). **A**, dorsal view. **B**, left lateral view.

FIGURE S6. Photographs of the late Pliocene Perpignan individual (MNHN 1887-26), for comparison (images courtesy of MNHN). **A**, cranium in dorsal view. Note the position of the orbits. **B**, cranium in right lateral view. Note the degree of emargination, and the cheek area morphology. **C**, plastron in ventral view. The sutures (dotted lines) and sulci (solid lines) are indicated. **D**, anterior lobe in lateral view, showing the convex epiplastral lip and the step-like gular pocket. **E**, detail of the posterior lobe of the plastron, ventral view. Note that in this female individual; there is a deep anal notch.

FIGURE S7. Photographs of the early–middle Miocene Sandelzhausen material (BSPG 1959 II 2033), for comparison. Images courtesy of the BSPG. **A**, epiplastron in right lateral view. Note the straight dorsal surface and the deep gular pocket. **B**, fused astragalocalcaneum in dorsolateral view, without the suture.

FIGURE S8. Map of Europe with the main Neogene giant tortoise localities (most of them attributed to *Cheirogaster* s.l.). Data in Table 1S. The Priabonian site of Baby (type locality for the genus) is also depicted. Thessaloniki* locality refers to the new sites Epanomi, Nea Michaniona, and Nea Kallikratia (presented in this study), and the locality Salonique after Arambourg and Piveteau (1929).

FIGURE S9. Graphical explanation of measurements in Tables S2–S10. Cranium measurements 1–11 details in Table S2.

Table S1. Table with the main Neogene localities of Europe, with fossils of giant tortoises (figured in Fig. 8S).

Table S1. Table with the main Neogene localities of Europe, with fossils of giant tortoises (figured in Fig. 8S).					
Age	MN	Locality	Species	First Reference	Institution
PLS	17	Lesvos (GR)	cf. <i>Cheirogaster</i> aff. <i>schafferi</i>	Lapparent de Broin (2002)	VM
PL	16	Las Higuierelas (E)	<i>Cheirogaster</i> sp.	Alberdi et al. (1984)	MGUS
	14-16	Epanomi (GR)	<i>Cheirogaster bacharidisi</i>	present study	LGPUT
		Nea Kallikratia (GR)			
		Nea Michaniona (GR)			
	15?	Thessaloniki (GR)	cf. <i>Cheirogaster</i> sp.	Arambourg and Piveteau (1929)	MNHN
	15	Perpignan (FR)	<i>Cheirogaster perpiniana</i>	Déperet and Donnezan (1890)	MNHN
	14-15	Tenevo (BG)	cf. <i>Cheirogaster</i> sp.	Stojanov (2009)	NHMS
M	13	Murcia (E)	<i>Cheirogaster bolivari</i>	Jiménez Mancheño et al. (2001)	MCPM
	12-13	Pikermi (GR)	cf. <i>Cheirogaster</i> cf. <i>schafferi</i>	Bachmayer (1967)	AMPG
	12-13	Samos (GR)	cf. <i>Cheirogaster schafferi</i>	Szalai (1931)	NHMW
	12	Mont-Léberon (FR)	<i>Cheirogaster leberonensis</i>	Déperet (1885)	MNHN
	11	Küçük Çekmece (TR)	cf. <i>Cheirogaster</i> sp.	Nicholas (1978)	MNHN
	9-10	Hostalets de Pierola (E)	<i>Cheirogaster richardi</i> (holotype)	Bergounioux (1938)	lost
	9-10	Avila (Arevalo) (E)	<i>Cheirogaster richardi</i> (neotype)	Jiménez Fuentes and Garbajosa Tamargo (1982)	MGUS
	9	Can Mata (E)	cf. <i>Cheirogaster</i> sp.	Luján et al. (2010)	IPS
	6-7	Bois de Fabrègues (FR)	cf. <i>Cheirogaster</i> sp.	Lapparent de Broin (2002)	MNHN
	6	Sandelzhausen (D)	<i>Cheirogaster</i> sp.	Schleich (1981)	BSPG
	6	Winterthur (CH)	<i>Cheirogaster vitodurana</i>	Biedermann (1862)	NWS
	6	Veiltheim (CH)	<i>Cheirogaster vitodurana</i>	Peyer (1946)	PIMUZ
	3-5	Alcalá des Henares (E)	<i>Cheirogaster bolivari</i>	Hernández-Pacheco (1917); Royo y Gomez (1935)	lost
	3-5	Coca (E)	<i>Cheirogaster bolivari</i> (neotype)	Jiménez Fuentes (1971)	MGUS
	3-5	Chañe (E)	<i>Cheirogaster bolivari</i>	Jiménez Fuentes (2000)	MGUS
	4	Artenay (FR)	<i>Cheirogaster ginsburgi</i>	de Broin (1977)	MNHN
	2	Saint-Gerard-le-Puy (FR)	<i>Cheirogaster eury sternum</i>	Gervais (1859)	MNHN
Age abbreviations–PL, Pliocene; PLS, Pleistocene; M, Miocene.					
Country abbreviations–BG, Bulgaria; CH, Switzerland; D, Germany; E, Spain; GR, Greece; FR, France; TR, Turkey					
Other abbreviations–MN, Mammal Neogene biozones.					

We mention only the first reference; see also Lapparent de Broin (2001, 2002).

Tables of Measurements of the Studied Material

Measurements were taken using a BMI caliper (0.01 mm precision) for bone elements and meter tape for shell elements. In most cases an explanatory drawing is given. Proximal refers to the part of the bone closer to the axial skeleton, in contrast with distal. Measurements of diaphyses were taken at the minimum part of the midshaft. Anteroposterior diameter of the bone (DAP) was measured at dorsal view. Transversal diameter (DT), was measured at anterior view. For graphical explanation see Figure S9. **Abbreviations**—**ca.**, calculated; **dia**, diaphysis; **dist**, distal; **l**, left; **pr.**, preserved; **prox**, proximal; **r**, right.

	1	2	3	4	5	6	7	8	9	10	11	12
EPN 102	210	200	165	53	125	49	112	64	129	95	148	65
Samos (NHMW)	257	260	205	68,7	128	66	138	82	185	157,5	185	75
Perpignan (MNHN)	190	180	155	57,3	93,3	55	112	67	130	125	130	70
Thessaloniki (MNHN)	200	197	174	43	113	47,5	110	58	132	144	144	66

1, maximum length; 2, length prosthion–squamosal; 3, length prosthion–opisthotic; 4, length prootic–opisthotic; 5, length prosthion–postorbital; 6, width across frontals; 7, width across ectorbital; 8, width across prefrontals; 9, width across jugals; 10, width across squamosals; 11, maximum width; 12, maximum height (not figured). Prosthion refers to sutural point of the premaxillae; ectorbital refers to the most lateral point posterior to the orbits.

Table S3. Measurements of the plastron (mm), measured across the midline

		Bony Plates					Horny Scutes					
	Length	Ep	En	Hyo	Hypo	Xi	Gu	Hu	Pec	Abd	Fe	An
EPN 101	1150	ca. 190	ca. 150	300	340	170	?	?	?	?	?	?
EPN 285	1120	ca. 140	ca. 210	210	340	220	?	?	50	380	240	80
abd, abdominals; an, annals; ca., calculated; ep, epiplastron; en, entoplastron; fe, femorals; gu, gulars; hu, humerals; hyo, hyoplastron; hypo, hypoplastron; pec, pectorals; xi, xiplastron.												

Table S4. Measurements of shoulder girdle (mm)

	Left EPN 208			Right EPN 206		
	Length	Width	Depth	Length	Width	Depth
Scapula	180	58,2	29,7 – 16,3	150	60	30,8 – 17,2
Acromion	150	50,8	33,8 – 23,6	140	50,7	38 – 23,3
Coracoid	160	67,2	55,9	70	63	64,5
Articular surface: 93,8 x 62,1				Articular surface: 92 x 67		

Table S5. Measurements of humerus (mm)

		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 103 (r)	308	74,79	138,49	44,41	55,28	98,14	65,25
EPN 104 (l)	ca. 305	–	–	42	52,68	ca. 95	64,78
EPN 200 (r)	pr. 227	–	–	44,3	55,3	92,3	69
EPN 203(l)	pr. 215	–	–	43,5	53	–	–
KLK 503 (l)	pr. 125	95	112	–	–	–	–

Table S6. Measurements of radius (mm)							
		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 113 (r)	141,91	51,97	47,25	23,64	24,16	37,21	56,86
EPN 114 (l)	150,33	41,96	38,45	24,3	24,73	34,66	63,5
EPN 201 (r)	178	46	79,7	27,3	25,4	73,3	46
EPN 204 (l)	pr. 85	–	–	27,9	28,9	–	–

Table S7. Measurements of ulna (mm)							
		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 202 (r)	190	69,3	67,8	50	24,6	21,1	82,8
EPN 205 (l)	pr. 101,7	–	–	–	–	–	85,9

Table S8. Measurements of femur (mm)							
		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 107 (r)	230	99,5	112	39,6	44,6	106	56
EPN 110 (l)	237,77	93,3	pr. 80,91	42,5	46,89	108,49	58,78
EPN 212 (r)	pr. 139	–	–	39,2	46,6	–	–
MIC 301 (l)	pr. 146	–	–	46,6	60,2	130	70

Table S9. Measurements of tibia (mm)							
		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 108 (r)	160	71	62,4	33,5	27,4	45,6	29,6
EPN 111 (l)	pr. 144	66,91	61,29	26,36	27,19	–	–
EPN 213 (r)	pr. 104,5	–	–	30,3	36,5	–	–
MIC 302 (l)	pr. 104,5	96	74,5	35,7	34	–	–

Table S10. Measurements of fibula (mm)

		Proximal		Diaphysis		Distal	
	Length	DT	DAP	DT	DAP	DT	DAP
EPN 109 (r)	142	22,6	36	14,6	23,3	21,3	43,3
EPN 112 (l)	147,15	22,75	38,04	21,33	14,51	26,96	44,06
MIC 303 (l)	pr. 89,9	43,7	34,2	29,8	19,9	–	–

Table S11. Measurements of osteoderms (mm)

EPN	Maximum Length	Maximum Width	Maximum Depth	Description	EPN	Maximum Length	Maximum Width	Maximum Depth	Description
140	43,4	26	8,4	Anterior limb	237	49,85	57,67	18,95	Anterior limb
142	49,6	31,7	17,5	Half pointed	263	32,58	37,53	10,66	Anterior limb
134	57,9	34	18,8	Half pointed	232	54,45	53,12	19,12	Half pointed
199a	37,5	46,15	15,3	Half pointed	233	47,18	49,21	28,41	Half pointed
199b	34,5	30,3	9,3	Half pointed	239	55,73	39,48	20,87	Half pointed
199c	33,2	26,2	10,4	Half pointed	240	50,3	43,11	21,48	Half pointed
157	29,6	34,7	12	Posterior limb	241	57,06	37,96	17,17	Half pointed
199d	19	18,3	5,3	Posterior limb	242	55,77	47,67	20,88	Half pointed
199e	29,04	24,5	12,8	Posterior limb	243	43,67	42,96	24,46	Half pointed
199f	55,4	42,5	23,6	Pointed	248	48,44	40,91	14,98	Half pointed
199g	34,6	36,1	32,5	Pointed	250	45,52	43,02	23,94	Half pointed
199h	28,8	36,2	31	Pointed	253	41,88	38,74	21,02	Half pointed
199i	62,4	47,6	44,4	Pointed	254	44,1	31,07	17,25	Half pointed
255	40,16	31,26	14,41	Crural	260	47,22	34,68	17,05	Half pointed
257	25,36	22,04	14,01	Crural	231	61,09	45,85	25,45	Pointed
258	34,8	30,45	15,67	Crural	234	54,74	45,24	25	Pointed
259	30,27	32,2	12,45	Crural	235	72,07	52,98	25,63	Pointed
261	24,58	28,36	11,71	Crural	236	58,69	47,4	22,98	Pointed
262	22,13	22,21	10,8	Crural	238	72,5	53,52	24,08	Pointed
265	33,97	24,15	15,16	Crural	244	57,28	39,84	24,26	Pointed
266	30,34	21,93	8,32	Crural	245	55,19	42,06	21,9	Pointed
267	22,53	18,5	10,03	Crural	247	50,46	39,07	31,89	Pointed
268	25,82	31,64	11,63	Crural	251	52,64	42	22,13	Pointed
269	39,55	24,92	13,4	Crural	252	65,37	39,26	18,43	Pointed
270	36,2	29,27	21,63	Crural					

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