

# Supporting Information

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Table S1. Fossil equids, giraffes, hippos, and suids from Kay Behrensmeier Site (KBS) and Okote Members, Koobi Fora region, Kenya

Sample number	Genus and species	$\delta^{13}\text{C}$	$\delta^{18}\text{O}$	Tooth	Member
<i>Equidae</i>					
F5066	<i>Equus</i> sp. indet.	-2.5	-3.8	m1 or m2	Okote
F5070	<i>Equus</i> sp. indet.	-2.1	-1.9	Lp3	Okote
K92-4832	<i>Hipparion</i> sp.	-2.1	-1.2	M3	Okote
KNM ER 1224	<i>Equus</i> sp. indet.	-0.3	0.0	Lp2	KBS
KNM ER 1227	<i>Equus</i> cf. <i>grevyi</i>	-0.7	1.6	P3 or P4	Okote
KNM ER 1250	<i>Equus koobiforensis</i>	0.7	4.0	RM3	KBS
KNM ER 1255	<i>Equus koobiforensis</i>	-0.9	2.6	LM2	KBS
KNM ER 1259	<i>Equus</i> sp. indet.	-0.1	1.8	RP3	KBS
KNM ER 1259	<i>Equus</i> sp. indet.	-0.8	0.2	LP3	KBS
KNM ER 2064	<i>Equus</i> sp. indet.	-0.1	2.0	RP3 or P4	KBS
KNM ER 2066	<i>Equus grevyi</i> ?	0.7	1.6	M1 or M2	Okote
KNM ER 2642	<i>Hipparion</i> sp.	-0.1	3.9	LM3	KBS
KNM ER 2642	<i>Hipparion</i> sp.	-1.2	1.2	LM3	KBS
KNM ER 2668	<i>Hipparion</i> cf. <i>aethiopicum</i>	0.1	0.3	P2	Okote
KNM ER 2672	<i>Equus</i> cf. <i>grevyi</i>	-1.1	2.8	M1 or M2	Okote
KNM ER 2680	<i>Equus</i> cf. <i>grevyi</i>	0.5	-1.0	P3 or P4	Okote
KNM ER 2684	<i>Equus</i> cf. <i>grevyi</i>	-0.6	2.0	P3 or P4	Okote
KNM ER 4030	<i>Equus</i> sp. indet.	1.3	-1.2	M1 or M2	KBS
KNM ER 5359	<i>Hipparion</i> sp.	-0.4	7.1	RM1 or M2	KBS
	average	-0.4	1.4		
	SD	0.9	2.2		
	number	18	18		
<i>Giraffidae</i>					
KNM ER 1492	<i>Giraffa pygmaea</i>	-10.7	2.1	LM3	KBS
KNM ER 932	<i>Giraffa stillei</i>	-12.1	3.8	M3	KBS
KNM ER 1495	<i>Giraffa stillei</i>	-12.2	3.8	M3	KBS
KNM ER 664	<i>Giraffa jumae</i>	-12.5	2.7	M3	Okote
	average	-11.9	3.1		
	SD	0.8	0.8		
	number	4	4		
<i>Hippopotamidae</i>					
KNM ER 2045	<i>Hippopotamus aethiopicus</i>	-3.6	-5.7	Rm1	Okote
KNM ER 5502	<i>Hippopotamus aethiopicus</i>	-2.7	1.2	m2	Okote
KNM ER 5512	<i>Hippopotamus aethiopicus</i>	-1.3	-4.7	M3	Okote
KNM ER 5573	<i>Hippopotamus aethiopicus</i>	-1.0	-2.1	m2	Okote
KNM ER 5576	<i>Hippopotamus aethiopicus</i>	-1.5	-3.0	M3	KBS
KNM ER 638	<i>Hippopotamus aethiopicus</i>	-0.3	-2.6	M3	KBS
KNM ER 671	<i>Hippopotamus aethiopicus</i>	-1.9	-2.3	RM3	KBS
KNM ER 1396	<i>Hippopotamus gorgops</i>	0.1	-5.7	RC	Okote
KNM ER 1409	<i>Hippopotamus gorgops</i>	-1.6	-3.9	Lm	Okote
KNM ER 1427	<i>Hippopotamus gorgops</i>	-0.7	-2.7	M2	Okote
KNM ER 5509	<i>Hippopotamus gorgops</i>	-3.0	-0.7	Rdp4	KBS
KNM ER 5510	<i>Hippopotamus gorgops</i>	-0.2	-3.0	Lm2	KBS
KNM ER 5513	<i>Hippopotamus gorgops</i>	-0.1	-1.8	m	KBS
KNM ER 5543	<i>Hippopotamus gorgops</i>	-1.4	-4.8	Rc	Okote
KNM ER 637	<i>Hippopotamus gorgops</i>	-1.1	-0.5	RM3	KBS
KNM ER 1422	<i>Hippopotamus karumensis</i>	0.0	-2.7	LM3	KBS
KNM ER 2186	<i>Hippopotamus karumensis</i>	-1.8	-4.1	Rm3	KBS
KNM ER 5464	<i>Hippopotamus karumensis</i>	-0.5	-3.8	LM3	KBS
KNM ER 5500	<i>Hippopotamus karumensis</i>	-2.1	-3.5	RM3	Okote
KNM ER 5501	<i>Hippopotamus karumensis</i>	-0.6	-5.0	LM3	Okote
KNM ER 5577	<i>Hippopotamus karumensis</i>	-0.6	-2.6	M	Okote
KNM ER 5648	<i>Hippopotamus karumensis</i>	-2.7	-5.7	M	KBS
F20004	<i>Hippopotamus</i> sp.	-1.0	-4.2	p4	Okote
	average	-1.3	-3.2		
	SD	1.0	1.8		
	count	23	23		
<i>Suidae</i>					
KNM ER 3653	<i>Metridiochoerus andrewsi</i>	0.4	-0.5	Rm3	KBS
KNM ER 5240	<i>Metridiochoerus hopwoodi</i>	0.4	0.5	Rm3	KBS
KNM ER 3240	<i>Metridiochoerus compactus</i>	0.5	2.4	m3	Okote
KNM ER 3627	<i>Metridiochoerus compactus</i>	0.1	2.9	Rm3	Okote
KNM ER 2719	<i>Metridiochoerus hopwoodi</i>	-0.2	1.4	m3	Okote

Sample number	Genus and species	$\delta^{13}\text{C}$	$\delta^{18}\text{O}$	Tooth	Member
F15779	<i>Metridiochoerus</i> sp.	-0.2	-0.3	m3	Okote
F20008	<i>Metridiochoerus</i> sp.	0.2	-0.8	m3	Okote
F20009	<i>Metridiochoerus</i> sp.	-2.2	-0.3	m3	Okote
F20018	<i>Metridiochoerus</i> sp.	-0.5	-0.5	m3	Okote
F20221	<i>Metridiochoerus</i> sp.	-0.7	-2.6	m2	Okote
	average	-0.2	0.2		
	SD	0.8	1.6		
	count	10	10		
F20206	<i>Theropithecus oswaldi</i>	-1.0	0.4	m2	Okote

**Table S2.  $\delta^{13}\text{C}$  values for hominin and *Theropithecus oswaldi* fossils**

Specimen number	Taxon	$\delta^{13}\text{C}$	Tooth	Site/area	Member or age, Ma	Ref.
ARA-VP-1 1818	<i>Ardipithecus ramidus</i>	-10.7		Aramis	ARA-VP-1	1
ARA-VP-1 3290	<i>Ardipithecus ramidus</i>	-10.3		Aramis	ARA-VP-1	1
ARA-VP-1 3291	<i>Ardipithecus ramidus</i>	-11.2		Aramis	ARA-VP-1	1
ARA-VP-1 700	<i>Ardipithecus ramidus</i>	-8.5		Aramis	ARA-VP-1	1
ARA-VP-6/1 500-90	<i>Ardipithecus ramidus</i>	-10.2		Aramis	ARA-VP-6	1
ARA-VP-6/1 500-113	<i>Ardipithecus ramidus</i>	-10.2		Aramis	ARA-VP-6	1
ARA-VP-6/1 500-115	<i>Ardipithecus ramidus</i>	-10.8		Aramis	ARA-VP-6	1
MLD 30	<i>Australopithecus africanus</i>	-5.6	RM1	Makapansgat	MAK3	2
MLD 41	<i>Australopithecus africanus</i>	-11.3	M	Makapansgat	MAK3	2
MLD12	<i>Australopithecus africanus</i>	-7.7	RM3	Makapansgat	MAK3	2
MLD28	<i>Australopithecus africanus</i>	-8.1	RM3	Makapansgat	MAK3	2
STS 31	<i>Australopithecus africanus</i>	-6.8	RM3	Sterkfontein	ST4	3
STS 32	<i>Australopithecus africanus</i>	-7.8	RM3	Sterkfontein	ST4	3
STS 2218	<i>Australopithecus africanus</i>	-5.9	M	Sterkfontein	ST4	3
STS 45	<i>Australopithecus africanus</i>	-4.0	RM2	Sterkfontein	ST4	3
STS 72	<i>Australopithecus africanus</i>	-9.7	RM3	Sterkfontein	ST4	3
STW 14	<i>Australopithecus africanus</i>	-6.7	Lm1	Sterkfontein	ST4	4
STW 211	<i>Australopithecus africanus</i>	-7.3	M	Sterkfontein	ST4	4
STW 229	<i>Australopithecus africanus</i>	-5.8	P	Sterkfontein	ST4	4
STW 252	<i>Australopithecus africanus</i>	-7.4	RM1	Sterkfontein	ST4	4
STW 276	<i>Australopithecus africanus</i>	-8.0	Lm1	Sterkfontein	ST4	4
STW 303	<i>Australopithecus africanus</i>	-4.3	RM2	Sterkfontein	ST4	4
STW 304	<i>Australopithecus africanus</i>	-7.4	M	Sterkfontein	ST4	4
STW 309b (409)	<i>Australopithecus africanus</i>	-6.1	Lm1	Sterkfontein	ST4	4
STW 315	<i>Australopithecus africanus</i>	-5.7	Ldm2	Sterkfontein	ST4	4
STW 73	<i>Australopithecus africanus</i>	-8.8	RM2	Sterkfontein	ST4	4
STW 207	<i>Australopithecus africanus?</i>	-2.0	?	Sterkfontein	ST4	4
STW 213i	<i>Australopithecus africanus?</i>	-1.8	Lm1	Sterkfontein	ST4	4
STW 236	<i>Australopithecus africanus?</i>	-3.7	P	Sterkfontein	ST4	4
SK 27	<i>Homo</i> sp.	-8.2	LM3	Swartkrans	SK1	5
SK 80/847	<i>Homo</i> sp.	-7.1	P	Swartkrans	SK1	5
SK 2635	<i>Homo</i> sp.	-9.2	P	Swartkrans	SK1	5
OH62	<i>Homo habilis</i>	-8.3	LM2	Olduvai	1.8	6
OH65	<i>Homo habilis</i>	-5.2	LM3	Olduvai	1.8	6
OH7	<i>Homo habilis</i>	-8.8	Lm2	Olduvai	1.75	6
SK 19	<i>Paranthropus robustus</i>	-6.3	Rm3	Swartkrans	SK1	3
SK 41	<i>Paranthropus robustus</i>	-6.7	LM3	Swartkrans	SK1	3
SK 57	<i>Paranthropus robustus</i>	-6.5	LM3	Swartkrans	SK1	3
SK 876	<i>Paranthropus robustus</i>	-6.7	M	Swartkrans	SK1	5
SK 878	<i>Paranthropus robustus</i>	-6.8	Rp3	Swartkrans	SK1	7
SK 879	<i>Paranthropus robustus</i>	-8.5	M	Swartkrans	SK1	7
SK 879	<i>Paranthropus robustus</i>	-8.1	M	Swartkrans	SK1	7
SK1512	<i>Paranthropus robustus</i>	-8.8	P	Swartkrans	SK1	7
SK 14000	<i>Paranthropus robustus</i>	-5.9	LM3	Swartkrans	SK1	3
SK 14132	<i>Paranthropus robustus</i>	-6.9	RM3	Swartkrans	SK1	3
SK 24605	<i>Paranthropus robustus</i>	-7.3	RM3	Swartkrans	SK1	8
SK 24606	<i>Paranthropus robustus</i>	-6.1	RM2	Swartkrans	SK1	8
SKW 6	<i>Paranthropus robustus</i>	-7.0	LM3	Swartkrans	SK1	3
SKW 3068	<i>Paranthropus robustus</i>	-8.1	LM2	Swartkrans	SK1	3
SKW 4768	<i>Paranthropus robustus</i>	-7.4	LM2	Swartkrans	SK1	3
SKW 6427	<i>Paranthropus robustus</i>	-8.6	M	Swartkrans	SK1	8
SKX 5939	<i>Paranthropus robustus</i>	-5.4	M	Swartkrans	SK1	8
SKX 333	<i>Paranthropus robustus</i>	-10.0	Rm1	Swartkrans	SK2	7
SKX 1312	<i>Paranthropus robustus</i>	-8.1	LM1	Swartkrans	SK2	7
SKX 5015	<i>Paranthropus robustus</i>	-9.6	Lm3	Swartkrans	SK1	7
SKX 35025	<i>Paranthropus robustus</i>	-7.9	RM	Swartkrans	SK3	7
TM 1600	<i>Paranthropus robustus</i>	-7.9	Lm2	Kromdraai	KB3	3
KNM-CH-302	<i>Paranthropus boisei</i>	-1.3	m-frag	Baringo	1.42	this study

Specimen number	Taxon	$\delta^{13}\text{C}$	Tooth	Site/area	Member or age, Ma	Ref.
KNM-ER-729A	<i>Paranthropus boisei</i>	0.0	Lp4	Turkana	1.52	this study
KNM-ER-732A	<i>Paranthropus boisei</i>	-0.1	P4	Turkana	1.58	this study
KNM-ER-733A	<i>Paranthropus boisei</i>	-1.5	Rm3	Turkana	1.52	this study
KNM-ER-733D	<i>Paranthropus boisei</i>	-0.5	LP4	Turkana	1.52	this study
KNM-ER-802D	<i>Paranthropus boisei</i>	-0.1	Lm1	Turkana	1.58	this study
KNM-ER-802G	<i>Paranthropus boisei</i>	-1.9	m3	Turkana	1.59	this study
KNM-ER-810	<i>Paranthropus boisei</i>	-3.4	p3	Turkana	1.77	this study
KNM-ER-816B	<i>Paranthropus boisei</i>	-1.9	RP4	Turkana	1.77	this study
KNM-ER-818	<i>Paranthropus boisei</i>	0.7	Lm3	Turkana	1.60	this study
KNM-ER-1171C	<i>Paranthropus boisei</i>	-0.6	Lm1	Turkana	1.58	this study
KNM-ER-13750	<i>Paranthropus boisei</i>	0.2	m-frag	Turkana	1.87	this study
KNM-ER-1469A	<i>Paranthropus boisei</i>	-2.3	Lm3	Turkana	1.89	this study
KNM-ER-1479A	<i>Paranthropus boisei</i>	-2.3	m3	Turkana	1.87	this study
KNM-ER-15940	<i>Paranthropus boisei</i>	-1.1	Lm3	Turkana	1.77	this study
KNM-ER-1804	<i>Paranthropus boisei</i>	-1.2	LM3	Turkana	1.77	this study
KNM-ER-1806C	<i>Paranthropus boisei</i>	-1.3	Rm3	Turkana	1.85	this study
KNM-ER-3737B	<i>Paranthropus boisei</i>	-1.6	Rm1	Turkana	1.58	this study
KNM-ER-3887	<i>Paranthropus boisei</i>	-1.6	RM3	Turkana	1.57	this study
KNM-ER-3952F	<i>Paranthropus boisei</i>	-1.3	LM3	Turkana	1.87	this study
KNM-ER-6080	<i>Paranthropus boisei</i>	-2.2	Rm2	Turkana	1.60	this study
KNM-WT-17396	<i>Paranthropus boisei</i>	-1.9	Lm3	Turkana	1.72	this study
KNM-WT-37100	<i>Paranthropus boisei</i>	-1.8	m2 or m3	Turkana	1.72	this study
KNM-WT-37748	<i>Paranthropus boisei</i>	-2.1	RM3	Turkana	1.72	this study
OH5	<i>Paranthropus boisei</i>	-1.2	LM2	Olduvai	1.82	6
Peninj	<i>Paranthropus boisei</i>	-0.7	Lm2	Peninj	1.62	6
F20206	<i>Theropithecus oswaldi</i>	-1.0	m2	Turkana	Okote	this study
SK 14162	<i>Theropithecus oswaldi</i>	-3.7	M	Swartkrans	SK1	9
SK 2158	<i>Theropithecus oswaldi</i>	-0.4	M	Swartkrans	SK1	9
SK 2181	<i>Theropithecus oswaldi</i>	-2.6	M2	Swartkrans	SK1	10
SK 403	<i>Theropithecus oswaldi</i>	-5.3	M	Swartkrans	SK1	10
SK 411	<i>Theropithecus oswaldi</i>	-4.0	M	Swartkrans	SK1	9
SK 491	<i>Theropithecus oswaldi</i>	-1.6	M	Swartkrans	SK1	10
SK 495	<i>Theropithecus oswaldi</i>	-2.8	M	Swartkrans	SK1	9
SK 507	<i>Theropithecus oswaldi</i>	-0.3	M	Swartkrans	SK1	9
SK 581	<i>Theropithecus oswaldi</i>	-2.4	M	Swartkrans	SK1	10
SK 597	<i>Theropithecus oswaldi</i>	-1.3	M	Swartkrans	SK1	10
SKX 616	<i>Theropithecus oswaldi</i>	-1.1	M	Swartkrans	SK2	10

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**Table S3. Modern samples from Tsavo National Park**

Sample	Species	Year of death	$\delta^{13}\text{C}$ measured	$\delta^{13}\text{C}$ corrected to 1750*	$\delta^{18}\text{O}$	Tooth
<i>Equidae</i>						
K00-Tsv-215	<i>Equus burchelli</i>	2000	0.7	2.0	0.3	M3
K00-Tsv-219	<i>Equus burchelli</i>	2000	0.2	1.5	1.7	M3
K98-Tsv-139	<i>Equus burchelli</i>	1970	0.5	1.2	6	M3
K98-Tsv-140	<i>Equus burchelli</i>	1970	0.8	1.5	3.5	M3
K98-Tsv-141	<i>Equus burchelli</i>	1970	0.1	0.8	5.9	M3
K98-Tsv-142	<i>Equus burchelli</i>	1970	0.2	0.9	3.8	P4
K99-139-Tsv	<i>Equus burchelli</i>	1998	1.0	2.3	2.9	M3
	average		1.4	3.4		
	SD		0.6	2.1		
	number		7	7		
<i>Giraffidae</i>						
K99-136-Tsv	<i>Giraffa camelopardalis</i>	1999	-14.2	-12.9	3.3	M3
K00-Tsv-111	<i>Giraffa camelopardalis</i>	1970	-11.8	-11.0	5.5	p2
K00-Tsv-112	<i>Giraffa camelopardalis</i>	1970	-11.9	-11.2	3.7	p2
K00-Tsv-114	<i>Giraffa camelopardalis</i>	1970	-11.1	-10.4	5.3	p2
K00-Tsv-131	<i>Giraffa camelopardalis</i>	1970	-10.7	-10.0	3.9	p2
K00-Tsv-147	<i>Giraffa camelopardalis</i>	1970	-11.1	-10.4	3.9	p2
K08-TSV-209e	<i>Giraffa camelopardalis</i>	2008	-14.1	-12.6	-0.2	M3

Sample	Species	Year of death	$\delta^{13}\text{C}$ measured	$\delta^{13}\text{C}$ corrected to 1750*	$\delta^{18}\text{O}$	Tooth
ODW 6	<i>Giraffa camelopardalis</i>	1995	-12.1	-11.0	4.2	M3
	average		-11.2	3.7		
	SD		1.1	1.7		
	number		8	8		
<i>Hippopotamidae</i>						
K08-TSV-201-C-ave	<i>Hippopotamus amphibius</i>	2007	-4.8	-3.4	-2.2	C
K08-TSV-208e	<i>Hippopotamus amphibius</i>	2007	-2.9	-1.5	-3.8	C
K99-133-TSV	<i>Hippopotamus amphibius</i>	1999	-2.6	-1.3	-3.1	M3
K99-133-TSV	<i>Hippopotamus amphibius</i>	1999	-1.8	-0.6	-2.6	M2
K00-Tsv-200	<i>Hippopotamus amphibius</i>	1996	-5.9	-4.7	-1.8	m3
K00-TSV-226-M/3	<i>Hippopotamus amphibius</i>	1999	-2.8	-1.6	-3.0	m3
	average		-2.2	-2.8		
	SD		1.5	0.7		
	number		6	6		
<i>Suidae</i>						
K08-TSV-205-C-ave	<i>Phacochoerus africanus</i>	2007	-0.8	0.6	1.4	C
K08-TSV-216e	<i>Phacochoerus africanus</i>	2007	1.2	2.6	0.1	c
K98-Tsv-164	<i>Phacochoerus africanus</i>	1970	-0.7	0.1	2.7	M2
K98-Tsv-165	<i>Phacochoerus africanus</i>	1970	0.2	0.9	0.7	M3
	average		1	1.2		
	SD		1.1	1.1		
	number		4	4		

\* $\delta^{13}\text{C}$  values are corrected to 1750 due to changes in the isotope composition of the atmosphere (1–3).

- 1 Cerling TE, Harris JM (1999) Carbon isotope fractionation between diet and bioapatite in ungulate mammals and implications for ecological and paleoecological studies. *Oecologia* 120:347–363.
- 2 Francey RJ, et al (1999) A 1000-year high precision record of  $\delta^{13}\text{C}$  in atmospheric  $\text{CO}_2$ . *Tellus* 51:170–193.
- 3 Keeling RF, Piper, SC, Bollenbacher AF, Walker SJ (2010) Monthly atmospheric  $^{13}\text{C}/^{12}\text{C}$  isotopic ratios for 11 SIO stations. *Trends: A Compendium of Data on Global Change* (Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, US Department of Energy, Oak Ridge, TN).

**Table S4. Treated (TRT) vs. untreated (UNT)  $\text{CO}_2$  yields, and isotope data for four *Paranthropus boisei* specimens**

Specimen	$\text{CO}_2$ yield, $\mu\text{mol}/\text{mg}$	$\delta^{13}\text{C}$	$\delta^{18}\text{O}$
<b>ER-810-UNT</b>	<b>1.34</b>	-2.4	-2.2
ER-810-TRT	0.75	-3.4	-3.3
<b>ER-1806C-UNT</b>	<b>1.81</b>	-4.0	-2.7
ER-1806C-TRT	0.59	-1.3	-2.0
ER-818-UNT	0.70	0.2	1.5
ER-818-TRT	0.59	0.7	1.9
ER-729-UNT	0.64	-0.2	-0.1
ER-729-TRT	0.44	0.0	-0.7

Enamel samples with yields in **bold** contain exogenous carbonate.