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HISTORY OF PALEONTOLOGICAL RESEARCH IN THE NAROK DISTRICT OF KENYA

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ABSTRACT

The geology of the Narok District of southern Kenya was first studied in the 1960s. From 1994 through 2005 more extensive paleontological and geological research was conducted on a series of late Miocene sediments of the Lemudong'o Formation in the region of Lemudong'o Gorge and Enamankeon where the Ntuka and Narok Rivers merge to form the Uaso Ngiro River. Numerous paleontological sites have been located, however all but one are poorly fossiliferous. The exception is the site of Lemudong'o Locality 1, near the village of Enkorika. Here we describe the geological and paleontological research that has been performed in the entire project area, with detailed information about the paleontology at Lemudong'o Locality 1.

Introduction

A small section of the western margin of the Gregory Rift Valley in the southern Narok District of Kenya (Figure 1), spanning approximately 60 km from north to south, may be one of the last areas of the Kenya Rift with terminal Miocene sedimentary formations to be systematically explored by geologists and paleontologists. Because sites dating to this time span are particularly scarce in Africa, this region provides important clues to the diversity of environments present during the time when hominids emerged in Africa, and can contribute to a refined geochronology and tephrostratigraphy of eastern Africa. The geologic and paleontological importance of this area is discussed in detail by Ambrose, Bell, et al. (2007). The history of research conducted in this district as of January 2005 is briefly summarized in this chapter. Localities are indicated in **boldface** when first described.

Previous Research

J. B. Wright (1967) conducted the first systematic geological research in the southern Narok District for the Geological Survey of Kenya between February and August of 1959. In less than seven months of fieldwork, Wright was able to produce a remarkably thorough report and a detailed and accurate geological map of the region, especially considering the size of the area ($\frac{1}{2}$ degree of latitude and longitude square). Wright reported a deeply stratified sequence of sediments, ashes and tuffs, in part waterlain, representing three overlapping paleolake basins. He estimated these to be of Pleistocene age. The deposits crop out over an area extending 30 km from north to south in the survey area, and are best exposed in the deeply incised valleys of the lower reaches of the Siyiapei, Narok, and Ntuka Rivers, which all converge on the Uaso Ngiro River. The Uaso Ngiro River flows south of Wright's survey area, and exposes additional outcrops of stratified

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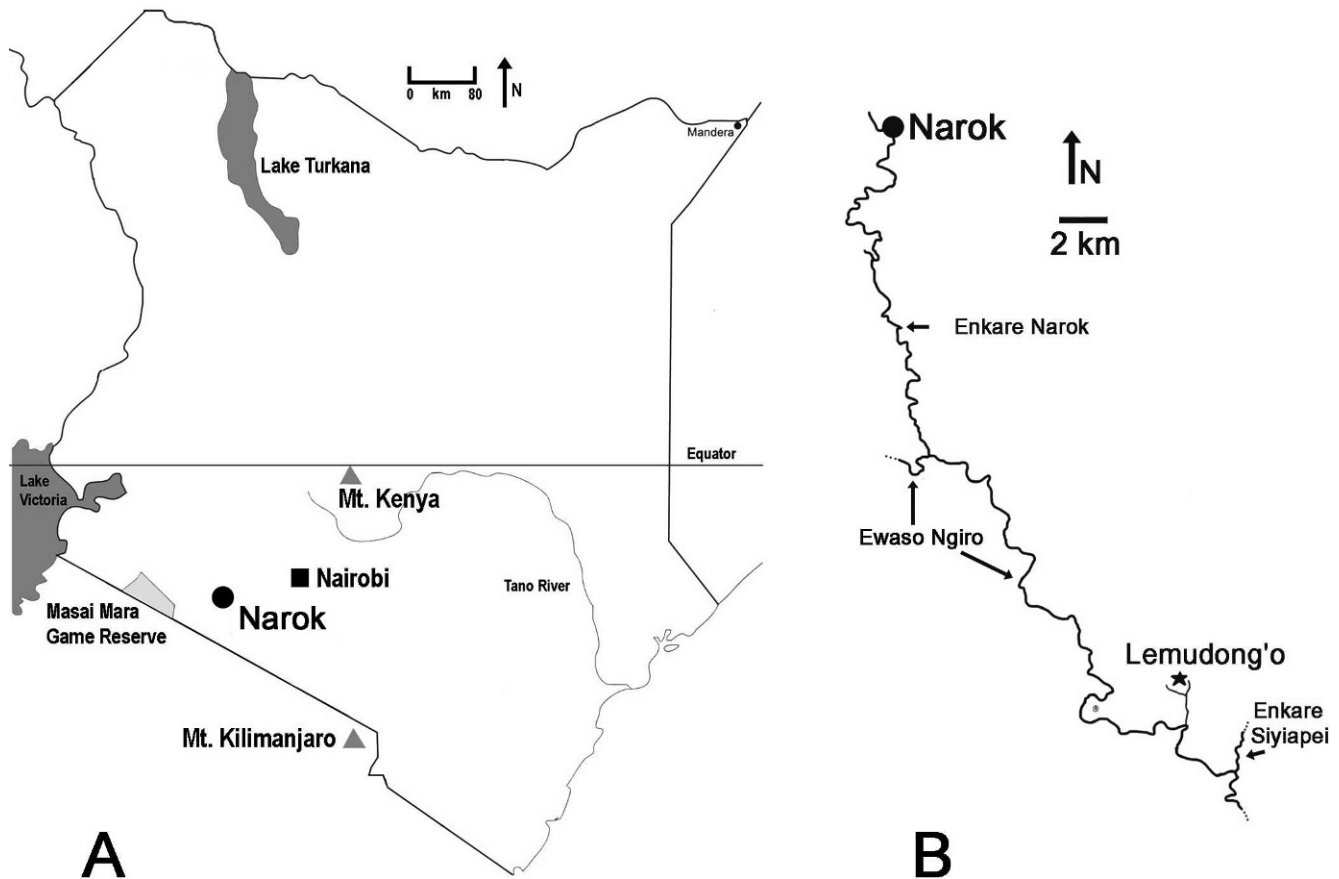


Figure 1. A, map of Kenya. B, finer-scale map showing the location of Lemudong'o relative to Narok.

sediments and volcanic tephra. Wright did not report vertebrate fossils, but he collected a number of flakes throughout this region, and a phonolite handaxe in the northern end of his survey area.

The potential for paleontological and archaeological research in this region was first recognized in 1976 by Waibel and McDonough during a survey of obsidian sources for the University of Massachusetts at Boston archaeological research project (Bower et al., 1977). Waibel and McDonough reported nine fossil localities in stratified sediments of the Ntuka River, approximately 5 km upstream from the confluence with the Uaso Ngiro River. Taxa collected included oryx, Cape buffalo, warthog, and zebra. Two archaeological sites with fossils were also identified in the Ntuka valley, one of which was possibly Early Stone Age (Sangoan). A K/Ar date of 4.4 ± 0.2 Ma was obtained on a welded tuff unconformably underlying the fossil-bearing sediments. A second tuff stratified within a sequence of pumices, waterlain ashes, and silts interbedded with channel deposits, collected 1 km upstream from the confluence of the Ntuka and the Olonganaiyo River, produced a K/Ar date of 3.0 ± 0.1 Ma. Waibel and McDonough concluded their brief report by noting the fossils and artifacts that they recovered may have come from the oldest of Wright's three paleolake basins, and that this region had potential for further geological and archaeological research.

Stanley Ambrose and Robert Blumenshine made a very brief visit to the Olonganaiyo River in December 1981. Fossil equid teeth were observed in a stratified series of late Quaternary fluvial

and alluvial deposits in the first outcrop upstream from the confluence with the Ntuka River.

The Kenya Power and Lighting Corporation began to implement plans for the Amala Development Project in 1991, which involves construction of a series of three hydroelectric dams on the Uaso Ngiro River (Gereta et al., 2002). Surveyors and engineers were active in this region for a decade. As of 2001 the project has been put on hold, but if completed, it will flood virtually all of the late Neogene sedimentary exposures and fossil-bearing sites, as well as many archaeological sites in this region.

Current Research

In June 1994, Stanley Ambrose, David Kyule and Michael Noll visited the Ntuka region to revisit the sites reported by Waibel and McDonough and assess the potential for future research. Several late Quaternary archaeological and fossil sites were discovered in the Ntuka River Valley (Kyule et al., 1997). Joel Ole Raen, a local resident from Enaramatishoreki, guided us to Lemudong'o Gorge, near the Masai village of Enkorika (Figures 1 and 2). Well-preserved fossil bones and teeth were observed eroding from the outcrops in the vicinity of a cave eroded in the claystones of Wright's second paleolake. They collected a few diagnostic fossils, including a *Nyanzachoerus syrticus* third molar (Suidae, Artiodactyla) and a sample of tuff for dating. This site was designated GvJh15 in the Standardized African Site Enumeration System (SASES) (Nelson, 1971).

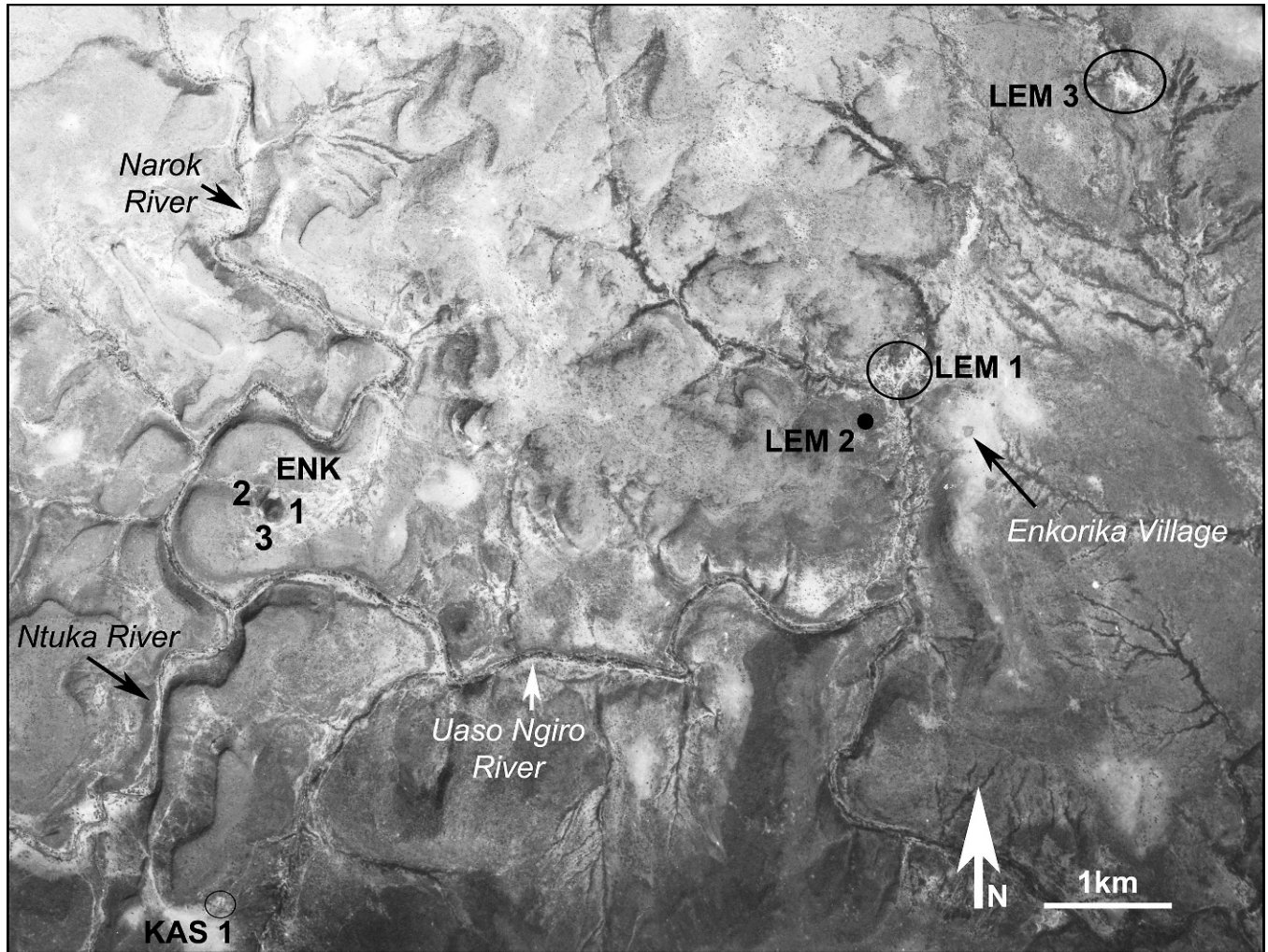


Figure 2. Aerial photograph showing the geography of the correlated late Miocene localities in the Narok District of Kenya. KAS 1 = Kasiolei Locality 1; LEM = Lemudong'o localities; ENK = Enamankeon. Scale is approximate.

Throughout this report we refer to this site as **Lemudong'o Locality 1 (LEM 1)** ($01^{\circ} 18.170$ S, $35^{\circ} 58.762$ E; GPS elevation $\sim 1,593$ m). The team returned for additional survey of this region in July 1995 and 1999, collecting a total of 271 specimens.

A second sedimentary exposure in the Lemudong'o Gorge, approximately 0.5 km downstream from the main exposures at LEM 1 was identified in 1999, and designated as GvJh32. **Lemudong'o Locality 2 (LEM 2)** ($01^{\circ} 17.98$ S, $35^{\circ} 56.04$ E) has only yielded one specimen, an associated pair of Elephantidae molars (Saegusa and Hlusko, 2007), but preserves a longer sedimentary sequence with well-stratified volcanic ashes that spans the main fossil horizon at LEM 1. Four tephra samples were collected, and three were submitted for radiogenic-argon dating, all of which date to ~ 6.0 Ma (Ambrose et al., 2003; Deino and Ambrose, 2007).

Lemudong'o Locality 3 (LEM 3) ($01^{\circ} 17.228$ S, $35^{\circ} 59.470$ E; GPS elevation 1,646 m) was also identified in 1994 and designated as GvJh25. The local name for this exposure is Emparkutet Enkoreroi. This is a wide, shallow exposure of claystones overlying yellow-brown lacustrine silts with an interstratified reworked gray cindery ash, underlain by fluvial sands and fine gravels, located ~ 3 km northeast of LEM 1. A few undiagnostic

bone fragments were observed eroding from the upper claystones. We collected four lightly rolled fossilized cercopithecoid and bovid teeth from the basal sands. These specimens are not included in the faunal descriptions of the late Miocene sediments of the Narok District as this outcrop has not yet been geologically correlated with the LEM 1 sequence.

Sparse, mainly undiagnostic fossils were also observed eroding from paleosols and claystones within the long sedimentary sequences of two prominent flat-topped hills, named Enamankeon and Ol Doinyo Siloma, which lie on the east and west sides of the Uaso Ngiro River, respectively, near its confluence with the Ntuka River. These dispersed localities (described below) were not given SASES numbers. A small number of undiagnostic fossils were also observed in paleosols, waterlain silts and ashes stratified below plateau trachyte lavas at a locality called the Enaramatishoreki Depression (Wright, 1967, plate IVa), west of the Enaramatishoreki settlement. Its stratigraphic position within Wright's three paleolakes sequence is unknown. On the north side of the lower reaches of the Leshota Gorge east of Enaramatishoreki, a few undiagnostic longbone fragments were collected at a locality that was designated GvJi2. The stratified sequence at Leshota is at least 150-m thick, and is exposed in very steep

outcrops for at least 15 km south of Leshota along the west side of the lower Uaso Ngiro valley. These deposits belong to the oldest paleolake.

Survey around the initially recognized sites (Lemudong'o and Enamankeon), and a 2002–2004 systematic survey of sediment exposures identified with ASTER satellite imagery and aerial photographs, led to the discovery of nine additional paleontological sites, mainly within this second paleolake formation, which is formally defined as the Lemudong'o Formation by Ambrose, Nyamai, et al. (2007). These are briefly described below.

Enamankeon (East) Locality 1 (ENK 1) (01° 18.568 S, 35° 56.774 E; GPS elevation ~1628 m), is located on the east side of the flat-topped hill after which the locality is named. The top of the hill is formed by a ~14-m-thick series of resistant yellow water-lain tuffs (Yellow Tuff) capped by a thick gray welded tuff (Gray Ignimbrite). These two tuffs cap most of the stratigraphic sequences at the fossiliferous localities of the second paleolake in this region. The sparsely fossiliferous claystones and sandstones are stratified below a thick, poorly consolidated gray tuff (Gray Tuff) that forms a prominent cliff around the entire perimeter of Enamankeon and above a blue-gray tuff. The gray tuff may correlate with the uppermost gray tuff at LEM 2 (Ambrose, Nyamai, et al., 2007).

Enamankeon (West) Locality 2 (ENK 2) (01° 18.500 S, 35° 56.570 E; GPS elevation ~1634 m) lies on the west side of the hill. This locality comprises a conformable depositional sequence of ~65 meters of interbedded claystones and sands with three possible tufa horizons. It unconformably overlies a very thick sequence of gray welded tuffs and phonolite lava. The sequence is sparsely fossiliferous from the second tufa to below the Gray Tuff. Two specimens were collected from the second tufa (an artiodactyl proximal femur and a carnivore distal femur). A hippopotamid mandible is embedded in a large block of carbonate cemented sandstone in the second tufa and large mammal long bones are nearby (exact location: 01° 18.505 S, 35° 56.568 E; elevation ~1633 m). The second tufa is stratigraphically below ENK 1 and 3 but is part of the same conformable depositional sequence.

Enamankeon (Southwest) Locality 3 (ENK 3) (01° 18.599 S, 35° 56.605 E; GPS elevation ~1642 m) is an approximately 50 m² exposure of claystones on the southern part of the west side of Enamankeon. Three specimens were collected, two carnivores and one cercopithecoid primate from "popcorn"/sandy clays ~9 m below the aforementioned poorly consolidated Gray Tuff.

Entapot Enchoro Locality 1 (ENE 1) (01° 17.992 S, 35° 57.114 E; GPS elevation ~1613 m) is an exposure of brown mudstones with a sand lens outcropping for approximately 50 m². Five specimens were collected: three bovids, one colobine, and one carnivore. The age of this locality is uncertain although it is overlain by the Yellow Tuff and Gray Ignimbrite and is therefore most likely late Miocene as well.

Kapor Locality 1 (KAP 1) (01° 17.980 S, 36° 13.098 E; elevation ~1435 m) is restricted to the basalt cobble lag of the Kapor River. Only one bovid horn core was collected. This area is ~26 km east of Lemudong'o and is stratigraphically distinct. Its stratigraphic position relative to Lemudong'o is unknown but probably much younger.

Kasiolei Locality 1 (KAS 1) (01° 19.78 S, 35° 56.47 E; elevation ~1653 m) is composed of an approximately 20 m² exposure of pink/brown sediments with some root casts. The fossils are covered in carbonate. This locality is stratified within a sequence highly similar to that at Enamankeon below the poorly consolidated Gray Tuff. There are also a few fragments of

fossilized bone and an equid tooth on the north side of Kasiolei as well. We did not collect this specimen but its location is 01° 19.577 S, 35° 56.327 E; GPS elevation ~1679 m.

Mpopong Locality 1 (MPO Loc 1) (01° 19.198 S, 35° 55.125 E; GPS elevation ~1685 m) consists of an outcrop of red sediments below a welded tuff. Four specimens were collected including an owl pellet, bovids (left maxillary fragment and mandibular right molar with surrounding alveolar bone), and a cercopithecoid humeral shaft fragment. The age and stratigraphic position of this locality relative to other sites is uncertain.

Olodoo Kulapunyi Locality 1 (OLO Loc 1) (01° 18.925 S, 35° 55.341 E; GPS elevation ~1689 m) is composed of approximately 30 m² area of exposed sediment from which 12 specimens were collected from a carbonate horizon with sand, pebbles, and fossils cemented together. A carnivore skeleton was collected. This specimen is subfossilized and needs significant preparation. The age and stratigraphic position of this locality relative to other sites is also uncertain; a Pleistocene age seems likely.

Siloma Locality 1 (SIL 1) (01° 17.736 S, 35° 56.281E; elevation ~1658 m) is located north of Entapot where light brown sediments are exposed. Two bovid fossils covered in carbonate were collected. This locality is stratified within a sequence similar to that at Enamankeon below the poorly consolidated Gray Tuff.

None of these sites yielded significant or numerous fossil material. The three Enamankeon localities and KAS 1 and SIL 1 are stratigraphically related to LEM 1 and 2 (Ambrose, Nyamai, et al., 2007). Therefore, fossils collected from these sites are included in the descriptions of the Narok late Miocene fauna. The other five sites require further investigation to determine their age. Therefore, these fossils are not yet described but are listed in Appendix 1.

Research at Lemudong'o Locality 1

The most fossiliferous site in the Narok District identified to date is LEM 1 (see Appendix 1 for list of specimens). After the initial 1994 survey, this site was visited briefly on 11 July 1998, 20 June 1999, and 3 July 2000, with staff from the Palaeontology and Archaeology Divisions of the National Museums of Kenya in Nairobi. Additional fossils were collected, including a partial mandible of the proboscidean genus *Anancus* (KNM-NK 41502).

Intensive paleontological research at LEM 1 was undertaken from 2001 to 2004 under the lead of Leslea Hlusko. A 100% collection strategy was employed following that used at the sedimentologically similar sites at Aramis in Ethiopia (White, 2004). Only specimens diagnostic of order (or more specific) were collected from LEM 2 and other penecontemporaneous sites (ENK 1, 2, and 3, and KAS 1).

Systematic measurements of partial stratigraphic sections were made at LEM 1 and 2 in July 2002 with Martin A. J. Williams. More complete stratigraphic sections were measured with Chris Nyamai, Eliud Mathu and Justus Muragwa from the Geology Department at the University of Nairobi in July 2004 and January 2005. These latter sections sampled most strata for petrographic and geochemical analyses and correlations between outcrops. The geological findings are reported in more detail elsewhere (Ambrose, Nyamai, et al., 2007).

The lateral variation in sediments at LEM 1 is outlined below in the descriptions of the collection areas. All of the fossils come from an 8-m-thick sequence of mudstones, sands and gravels stratified above yellow lacustrine silts (Figures 3–4). The sequence (Figure 4) represents a small shallow lake (Stratum 1) that receded, forming a beach or delta (Stratum 2), and then an

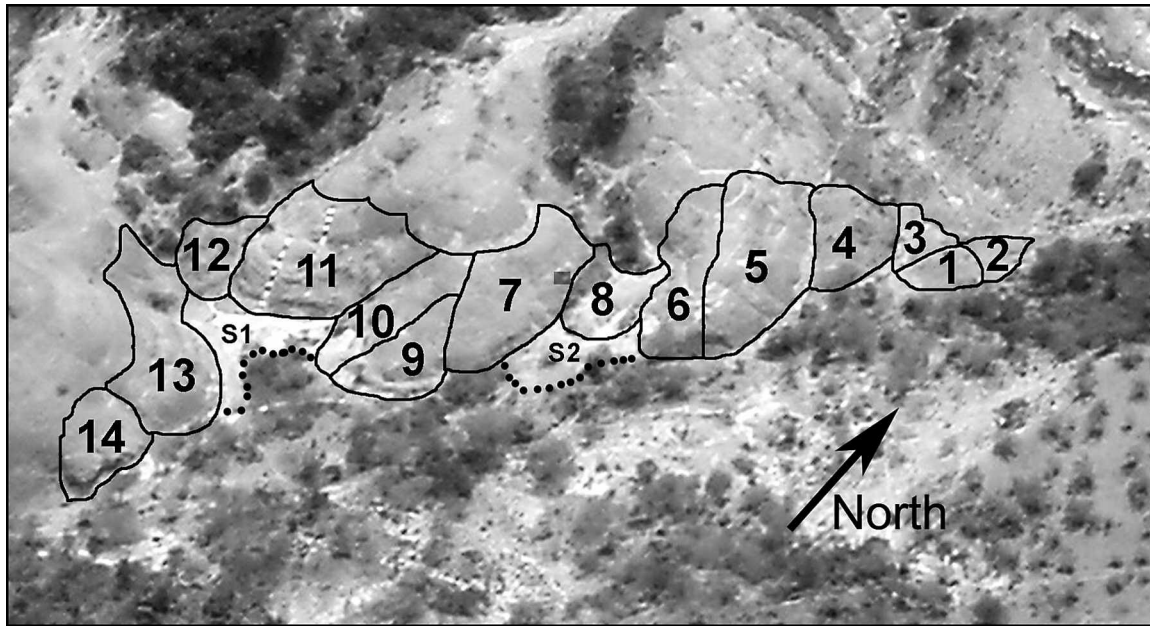


Figure 3. Aerial photograph showing the collection areas of Lemudong'o Locality 1. S1 = sieving area 1; S2 = sieving area 2. See text for details.

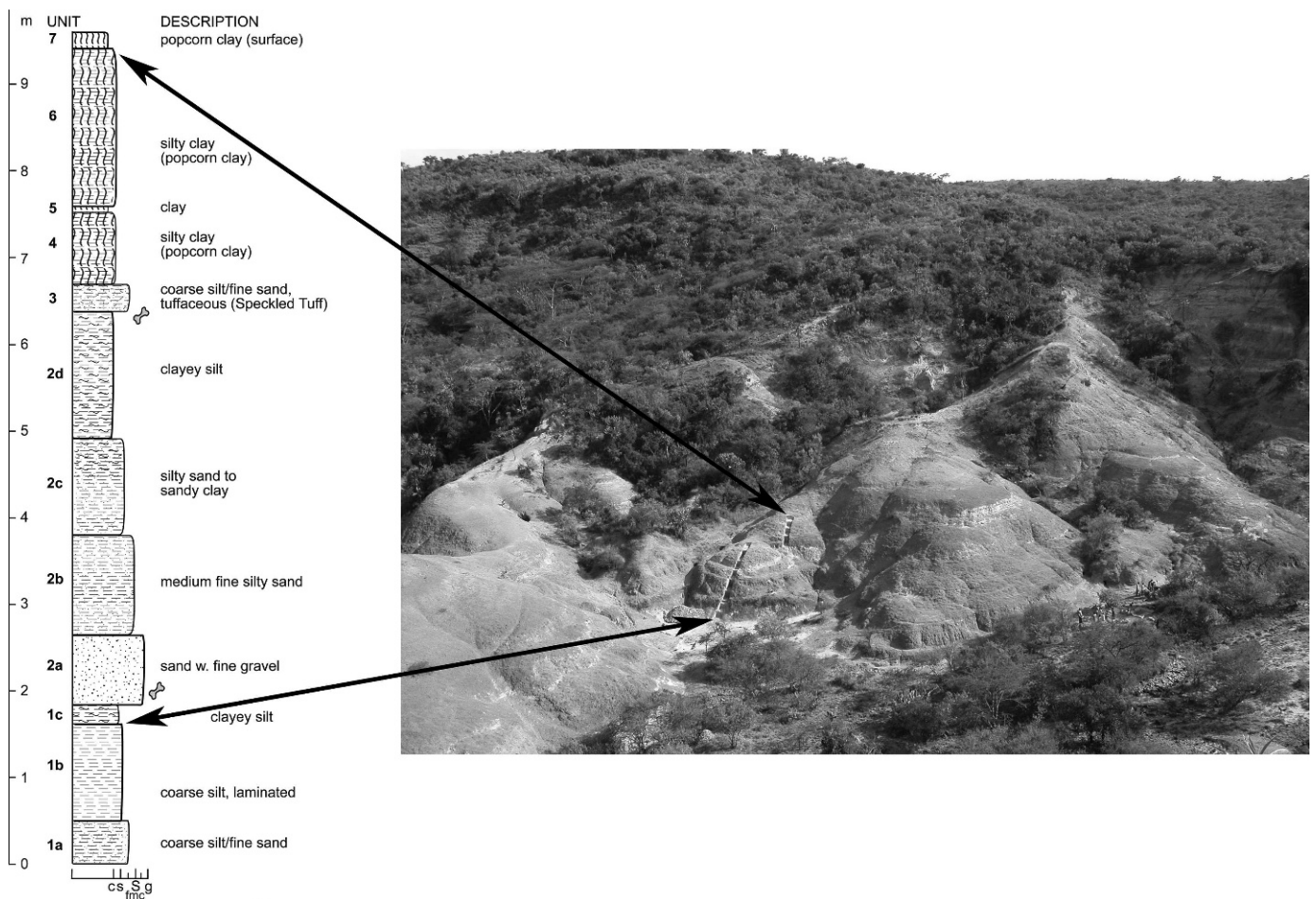


Figure 4. Photograph of LEM 1 taken from the eastern side of the Lemudong'o Gorge beside the stratigraphic column (see Ambrose, Nyamai, et al., 2007 for a more detailed diagram). There is a person standing in sieving area 2 for scale.

intermittently flooded muddy lake margin zone (Strata 4–7). The speckled tuff (Stratum 3), dated to 6.084 Ma (Ambrose et al., 2003; Deino and Ambrose, 2007), lies approximately 5 m above the lacustrine silts (Figure 4). The lowest 2–3 m of the fossiliferous sequence comprises mainly sands and gravels (Stratum 2), whereas the upper portion of the fossiliferous section is dominated by mudstones and cracking claystones (Strata 4–7). In collection area 9 the basal sands contain a shallow channel or depression filled with a lens of dark green, fine-grained dense tuff.

At LEM 1, all plant and animal fossil material was collected systematically: the field crew crawled along the small lobes of the outcrop shoulder to shoulder within 14 collection areas defined by erosional microtopography and stratigraphy (Figure 3). Although the sediments extend beyond these areas, those outcrops are virtually sterile. Meave Leakey oversaw the collection in 2000, providing descriptions of specimen provenience that were translated to the areas defined in 2001. Working from the bottom of the erosional fan of each slope, specimens were collected such that stratigraphic provenience could be determined for scattered specimens and to ensure that all recoverable pieces of broken specimens were recovered.

The fossils within the cracking claystones are typically highly fragmentary but with very little to no evidence of pre-depositional weathering. Only specimens that were identifiable to family were provided with a National Museum of Kenya specimen number (all are preceded by KNM-NK). All other material is held in “bulk” bags with the catalogued Narok collection in the Division of Palaeontology at the National Museum of Kenya in Nairobi.

Our 100% collection strategy enabled the recovery of microfauna and fragmentary specimens that were then reassembled, and provided information on the rejuvenation of exposed fossils from year to year. The most complete and larger specimens were collected in the first few years (i.e., 1995–2000); fewer, and primarily smaller, specimens were collected in later years, with the exception of the erosional basins that were partially sieved, as described further below. Collection of specimens identifiable to family level declined from 382 in 2001 to 109 in 2004. This follows expectations given the nature of fossiliferous-sediment erosional rates (White, 2004).

Brief descriptions of the collection areas within LEM 1 follow. Areas 1–3 yielded highly weathered and large bone fragments in the first year of 100% collection and virtually no fossil material in subsequent years. Only one specimen from these three areas was given a catalogue number.

Area 4 yielded a mix of fossil material, some with preservation similar to fossils found in the sandstones (typically weathered and stained black and green) and others with preservation reminiscent of the mudstones (typically unweathered and pale gray, brown and/or pink). All fossils collected from the southern side of the Area 4 hill are from the mudstones.

Areas 5, 7, 13, and 14 consist mainly of claystone sediments. All fossils from these localities are from the claystones and Speckled Tuff unless noted as gully wash from sediments higher in the stratigraphic section. Areas 13 and 14 are quite steep. A proboscidean mandible (KNM-NK 41502) was collected from the poorly-consolidated lower sands in the steep, rapidly-eroding southern edge of Area 14.

Area 6 primarily consists of claystones. However, at the southwestern edge there is an outcrop of the underlying sands. Area 8 is a small hill with claystones at the top and sands at the bottom. Area 9 is mostly claystones with an outcrop of the underlying sands at the base of the hill (the southern edge).

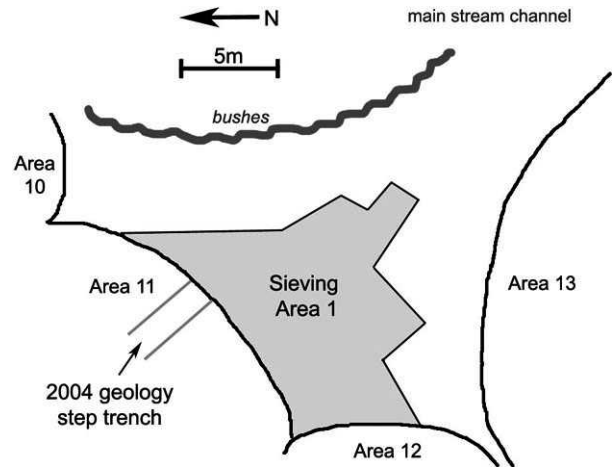


Figure 5. Diagram of sieving area 1, including areas sieved between 2001 and 2004. See text for details.

The speckled tuff is more consolidated in Area 7. In this section it contains a significant number of micromammal fossils (indicated by a small gray box in Figure 3). The majority of the Lemudong’o micromammal collection is from this Area. In 2001 approximately 2 m² of the lag surface on the hill and the gully separating Areas 7 and 8 was dry sieved with a 0.5-cm screen. The material that passed through this screen was wet sieved with a series of fine mesh screens to recover isolated micromammal teeth and bone fragments. The material from this sieving is housed in the Division of Palaeontology at the National Museum of Kenya in Nairobi with the rest of the Narok collection. The type specimen of *Paracolobus* sp. nov. (KNM-NK 44770; Hlusko, 2007) was recovered *in situ* immediately below this horizon, 1 m to the south.

Between the basal yellow silts and speckled tuff the claystones in Areas 10 and 11 are interbedded with sand and fine gravel horizons. The type specimen of *Plesiogulo botori* was found *in situ* in these sands of Area 10 (KNM-NK 41420; Haile-Selassie et al., 2004). Many fragments of large mammalian postcrania had eroded from these sands, and were also found in the gully that separates the two collection areas. These large, indeterminate specimens were not collected but rather consolidated in a rock-ringed circle in Area 11 to the east of the 2004 geological step trench (seen in Figures 3 and 6). The slope of this hill is very steep.

The sediments of Area 12 are predominately claystones but have some contamination from above. This is a relatively non-fossiliferous section.

LEM 1 is characterized by steeply sloping exposures with significant erosional gullies that drain into the main channel of the Lemudong’o Gorge. The outcrops are eroding rapidly. In the southern part of the site there is a basin that is approximately 225 m² where water and sediments from the steep slopes of collection Areas 10–13 pool prior to spilling into the main drainage. Each year we sieved a section of these recently re-deposited fossiliferous sediments through 0.5-cm screens to recover fossils that had eroded in previous years. The sediments were removed in ~1-m² units to the top of the underlying lacustrine silts. The removed sediment was deposited in a pile surrounded by a ring of stones on the other side of the gully.

Over the four years, almost half (~120 m²) of the modern silts in this basin were removed (Figure 5). The extent of the sieving

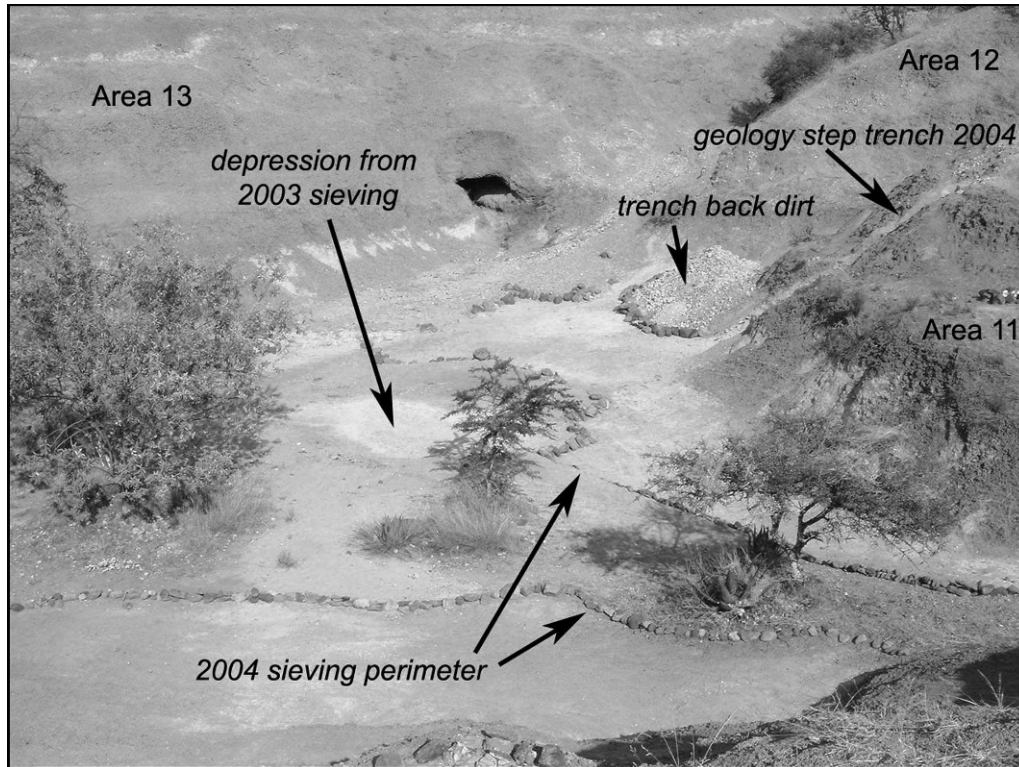


Figure 6. Photograph taken from the top of the Area 9 slope in 2004. This shows the extent of the 2004 sieving area 1 operation, as well as the fill depression from the earlier years' sieving. Stones outline the walls of the sieving area, as well as demarcate the back dirt from digging the extensive 2004 geological trench in Area 11. The ring of stones around the large indeterminate long bones can be seen in Area 11. See text for more details.

operation was marked with large rocks (Figure 6). A total of 110 taxonomically diagnostic specimens (i.e., identifiable to family level) were recovered and catalogued from sieving area 1 using this technique.

The sand horizon and gully lag from the catchment for Areas 6–8 (sieving area 2, Figure 3) were also sieved. By clearing this area to the top of the yellow lacustrine silts, 73 specimens were recovered and catalogued. The shallow sand horizon exposed at the base of Area 10 was similarly removed and sieved, recovering 11 catalogued specimens.

In total, 1268 specimens from LEM 1 were catalogued and deposited in the Division of Palaeontology at the National Museum of Kenya in Nairobi. Although the preservation of the fossils from the claystones is quite distinct from that of the sands and fine gravels (as described previously), we chose to take a conservative approach and do not designate stratigraphy based on preservation except in a few instances (Appendix 1). Therefore, just over half of the collection does not have secure stratigraphic provenience, as many specimens were collected in the first few years before exact horizons were recorded at the time of collection, or because they come from a mixed collection area (such as sieving area 1).

The faunas associated with the two fossil horizons are distinct. The 625 specimens stratigraphically provenienced to the speckled tuff and claystones are dominated by cercopithecoid primates and small bovids, with a large number of hyracoids, carnivores, and lagomorphs. Birds and snakes are also found in these sediments. The microfauna is significant, but underrepresented, given that

the microbreccia in Area 7 has not yet been as extensively sieved/excavated.

The sands and fine gravels yielded 21 specimens, including hippopotamids, suids, bovids, mustelid, hyaenid, equids, and cercopithecids. The proboscidean mandible KNM-NK 41502 also came from this horizon (Saegusa and Hlusko, 2007). The implications of these differing faunal compositions are discussed by Ambrose, Bell, et al. (2007).

Intensive paleontological research at LEM 1 is currently in a hiatus. However, we revisit the site annually to check the outcrops for newly exposed significant fossils.

Summary

A detailed geological study of the Narok District has only recently begun (Ambrose, Nyamai, et al., 2007). This study, in conjunction with the last decade of archaeological and paleontological research, is yielding significant insights into the late Miocene of the region (Ambrose et al., 2003; Ambrose, Bell, et al., 2007), as well as the Pleistocene and early human occupation (Kyule et al., 1997; Ambrose, 2002). From the field work conducted to date, the Narok District is clearly a region that will prove to be of paleoanthropological interest for years to come.

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Appendix 1. Catalogued fossils from the Narok District of Kenya.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
36563	PPX	1995	LEM 1 na		*	Aves					
36940	R.SCA	1995	LEM 1 na		*	Aves				<i>Phasianus</i> (cf.)	
36960	PHX	1999	LEM 1 na		*	Aves	Galliformes	Phasianidae			
36966	SCA	1999	LEM 1 na		*	Aves					
40898	HUM shaft + ungual PHX	2000	LEM 1 Area 7		*	Aves					
41004	R.CMC (prox.)	2001	LEM 1 Area 7		*	Aves	Falconiformes	Accipitridae			
41068	FEM (dist.)	2001	LEM 1 Area 7		*	Aves					
41126	TPX	2001	LEM 1 Area 7		*	Aves					
41244	RAD (prox.)	2001	LEM 1 Area 4, claystones		*	Aves					
41255	R.SCA	2001	LEM 1 Area 6		*	Aves				<i>Phasianus</i> (cf.)	
41406	FEM (shaft frag.)	1999	LEM 1 na		*	Aves (cf.)					
41476	ungual PHX + ungual PHX (prox.)	2001	LEM 1 Area 6		*	Aves					
41489	R.ULN (dist.)	2001	LEM 1 Area 6		*	Aves					
41490	MTT	2001	LEM 1 Area 4, claystones		*	Aves (cf.)					
41501	MTT V	2001	LEM 1 Area 4, claystones		*	Aves (cf.)					
42280	postcranial frag.	2002	LEM 1 Area 5, claystones		*	Aves					
42291	PHX	2002	LEM 1 Area 5, claystones		*	Aves					
42349	2 PHXs	2002	LEM 1 Area 13, claystones		*	Aves (cf.)					
42355	PHX	2002	LEM 1 Area 13, claystones		*	Aves					
42377	TPX	2002	LEM 1 sieving area 1		*	Aves					
42391	TPX	2002	LEM 1 sieving area 1		*	Aves					
44764	IPX (prox. frag.)	2003	LEM 1 Area 4, claystones		*	Aves (cf.)					
44781	TPX	2003	LEM 1 Area 5, claystones		*	Aves					
44801	pedal PHX	2003	LEM 1 Area 6 (gully, on pebble/sand side)		*	Aves	Falconiformes (cf.)				
44809	postcranial frag.	2003	LEM 1 Area 9		*	Aves					
44810	TBT	2003	LEM 1 Area 9		*	Aves					
44811	PHX	2003	LEM 1 Area 9		*	Aves					
44820	TBT (dist. frag.)	2003	LEM 1 Area 5, claystones		*	Aves					
44851	TPX	2003	LEM 1 Area 5, claystones		*	Aves					
44855	postcranial frag.	2003	LEM 1 East side of main gully		*	Aves					
45768	TBT	2004	LEM 1 Area 5, 3 m from top of hill, near gully, brown mudstones		*	Aves					
45799	TAR	2004	LEM 1 Areas 9/10 boundary, 1/2 m > speckled tuff		*	Aves					
45831	TPX	2004	LEM 1 sieving area 1		*	Aves					
45938	TBT	2004	LEM 1 sieving area 2		*	Aves					
36507	R.AST	1995	LEM 1 na		*	Mammalia					
36513	FIB	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36522	L.MTP (dist.)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36523	MTP (a and b)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36524	R.HUM (dist.)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36525	L.HUM (dist.)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36526	R.&L.TIB (dist.)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36527	L.FEM (prox.)	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36529	R.CAL	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36530	L.NAV	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36531	R.MAN w/m2-3	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae	Boselaphini		
36532	R.AST	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36533	R.AST	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			
36535	R.AST	1995	LEM 1 na		*	Mammalia	Artiodactyla	Bovidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
36536	R.NAV	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36538	OCC	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36562	R.+L.MAN w/m2-3 + m1 (frags.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36565	L.MAN w/erupting m2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36566	L.HOR frag.	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Neotragini	<i>Madoqua</i>	
36567	R.MAN w/p4-m1	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36569	L.MAN w/m1-m2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36570	L.MAN w/p4-m1	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36576	L.m3	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36579	R.m3	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36580	R.MAN w/dp3-4	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
36582	L.p3	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36583	DENT (frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36865	R.RAD (dist.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36867	HOR frag.	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Boselaphini		
36868	R.M1or2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
36869	L.m2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36870	L.M3	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36871	L.m1or2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36872	MPT (dist. frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36873	R.M2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36874	TIB (dist.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36877	RAD (dist.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36878	AST	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36879	R.m1	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36880	R.MAX w/p4 + M1 (frags.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36881	R.M3	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36882	R.MAN (frag.) w/m1 or 2 unruptured	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
36883	L.MAX (frag.) w/M3 erupting	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
36884	UNC	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36885	R.MAN (edent. frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36886	L.MAN (edent. frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36887	FIB	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36888	R.M1	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini (cf.)		
36938	R.MAN w/p1-2	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36942	M frag.	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36946	L.RAD (dist.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36948	TAR	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36949	R.LUN	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36950	PHXs + SPD	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36952	MTP (prox.)	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
36963	PPX	1995	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
38311	L.m3	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
38314	R.MAN w/dp4-m2	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Boselaphini		
38316	L.P4	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
40862	MAN w/p4 + half m	2000	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
40863	MAN (edent. frag.)	2000	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
40864	M (frag.)	2000	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae	Aepycerotini		

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
40865	MAG + UNC	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40866	L.M3	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae	Aepycerotini		
40867	CAR	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40868	R.+L.p3s	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40869	I	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40872	MAN w/m3	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40873	PHX (prox. frag.)	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40874	TPX	2000	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
40883	FIB	2000	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
40884	FIB	2000	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
40886	RAD (prox.)	2000	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
40893	TAR	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40896	MAX (frag.)	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40899	TPX	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40902	PPX, IPX, TAR	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40903	VER atlas (frag.)	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40904	immature PPX + PHX (frag.)	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40905	FIB	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40906	TPX	2000	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
40913	RAD (prox.)	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40916	assoc. M + P + frags.	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae	Boselaphini		
40918	PHX	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40919	I	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40920	L.M1or2	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40985	TPX	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40986	MTP (frag.)	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40987	TAR (a and b)	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40988	PHX (dist. frag.)	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40989	MAX (frag.) + M	2000	LEM 1	Area 9/10	*	Mammalia	Artiodactyla	Bovidae			
40996	P	2001	LEM 1	Area 4, claystones	*	Mammalia	Artiodactyla	Bovidae			
40999	I	2001	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
41005	SCA	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41010	MAN (edent. frag.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41011	NAV	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41012	AST	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41015	MAN (frag., condyle)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41016	half M	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41019	PHX	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41021	I	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41023	M (frag.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41026	HOR (frag.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41027	TPX	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41029	HUM (dist.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41031	PHX (prox. frag.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41032	UNC	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41034	VER axis	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41035	R.M (frag.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41038	TIB (dist. epiphysis)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41039	MTP (prox.)	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41040	TPX	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
41044	TPX	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41045	MAN (frag.) w/2 ms	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae	Aepycerotini (cf.)		
41054	M	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41055	MAN (frag.) w/half m	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41057	MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41060	half M	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41067	P	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41071	TAR	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41072	TAR	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41074	TPX	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41076	P	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41077	CAL	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41112	SES	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41117	TAR	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41120	PHX (dist. frag.)	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41121	MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae			
41129	HOR	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41130	MAN (condyle)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41131	CAL (frag.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41132	R.MAN w/m1-2	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41134	HUM (dist.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41135	R.m (frag.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41136	M (frag.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41137	MAN (edent. frag.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41138	PHX (dist. frag.)	2001	LEM 1 Area 10		*	Mammalia	Artiodactyla	Bovidae			
41142	AST	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41143	CAL	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41144	TIB (dist.)	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41145	MAN (edent. frag.)	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41146	CAL	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41148	NAV	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41155	TAR	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41156	R.M (frag.)	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41157	TPX	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41158	SPD	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41160	NAV	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41167	CUN	2001	LEM 1 Area 8		*	Mammalia	Artiodactyla	Bovidae			
41170	HOR + CRA (frags.)	2001	LEM 1 sands from South side of main gully		*	Mammalia	Artiodactyla	Bovidae			
41173	R.m3 (frag.)	2001	LEM 1 sieving area 1		*	Mammalia	Artiodactyla	Bovidae			
41178	TAR	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae			
41179	IPX	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae			
41180	TPX	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae			
41181	MAN (condyle)	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae			
41184	assoc. R.P4 + L.M1-2 (frags.)	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae			
41185	L.MAN w/p3-m2 + R.p2-3 + R.m1or2	2001	LEM 1 Area 11, mudstones		*	Mammalia	Artiodactyla	Bovidae			
41187	PPX	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41188	PPX	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41189	MTP (dist. frag.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41192	TAR	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41193	CAR	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41194	UNC	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41195	CAR	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41197	MTP (dist.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41198	TPX	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41199	M (frag.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41200	ULN (prox.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41201	MTP (prox.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41202	MTP (dist.)	1999	LEM 1 na			Mammalia	Artiodactyla	Bovidae			
41203	MTP (dist.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41204	AST	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41205	AST	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41206	PHX (prox. frag.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41209	R-p3-4	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41219	R-p4 (frag.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41220	PHX (dist. frag.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41221	CAR	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41224	HUM (dist.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Artiodactyla	Bovidae			
41228	FEM (dist.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41230	CAL (frag.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41246	TPX	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41247	R.i	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41248	TAR	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41249	NAV (frag.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Artiodactyla	Bovidae			
41256	M	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41258	R.m3 (frag.)	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41264	R.+L.p3	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41274	VER axis	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41275	L.M1	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41276	HOR (frag.)	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41277	TPX	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41278	MTP (dist. frag.)	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41290	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41291	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41292	PHX (dist. frag.)	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41293	L.i	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41299	VER cervical	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41300	PPX	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41311	TPX	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41312	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41313	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41314	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41315	TAR	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41324	TPX (frag.)	2001	LEM 1 Area 6		*	Mammalia	Artiodactyla	Bovidae			
41335	M (frag.)	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41336	M (frag.)	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41337	HOR (frags.)	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41338	R-p4	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41339	TPX	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41340	L.i	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41341	TAR	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41342	TPX (prox. frag.)	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
41343	L.m (frag.)	2001	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			

Madoqua

Neotragini

Aepycerotini (cf.)

Tragelaphini (cf.)

Tragelaphini (cf.)

Appendix I. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41344	SCA (frag.)	2001	LEM 1	Area 11		Mammalia	Artiodactyla	Bovidae			
41345	TPX	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41346	CAL	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41347	MTP (dist. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41348	AST	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini	<i>Aepyceros</i>	<i>premelampus</i> (aff.)
41349	L.HOR (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41350	SCA (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41351	R.m3 (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41355	R.M1-3	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini (cf.)		
41356	L.M2+3	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41357	L.m1or2	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41358	R.m3	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41361	R.MAN w/p3 + dp4 + ml	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41365	MTP (dist.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41366	MTP (prox.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41367	CAL	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41368	R.m1or2	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41369	L.MAN w/m1-3	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41371	HOR (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
41372	R.+L.M1or2	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41373	R.P4	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41374	L.p4	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41378	AST	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41379	MAN (frag., condyle)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41380	TPX	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41382	SCA (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41384	TIB (dist.) + AST	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41385	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41386	CAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41387	NAV	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41388	MTC (frags.) (a + b)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41389	MTP (dist. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41390	NAV	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41391	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41392	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41393	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41394	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41395	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41396	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41397	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41398	AST	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41401	M (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41402	PHX (dist. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41403	MTP (dist. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41404	MAN (edent. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41409	TAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41416	PHX (dist. frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41423	R.TIB (prox.)	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41425	CAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41430	CAR	1999	LEM 1	na		Mammalia	Artiodactyla	Bovidae			
41436	HOR (frag.)	2001	LEM 1	Area 12		Mammalia	Artiodactyla	Bovidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41437	M	2001	LEM 1	Area 12		Mammalia	Artiodactyla	Bovidae			
41438	TAR	2001	LEM 1	Area 12		Mammalia	Artiodactyla	Bovidae			
41439	AST	2001	LEM 1	Area 12		Mammalia	Artiodactyla	Bovidae			
41452	HOR + CRA (frags.)	2001	LEM 1	Area 6, mudstones	*	Mammalia	Artiodactyla	Bovidae	Boselaphini		
41464	AST	2001	LEM 1	Area 4, claystones	*	Mammalia	Artiodactyla	Bovidae			
41470	CAR	2001	LEM 1	Area 6	*	Mammalia	Artiodactyla	Bovidae			
42255	FIB	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42262	MAN (edent. frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42264	TPX	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42267	PHX (dist. frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42268	PHX (prox. frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42271	TPX (frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
42301	PHX (prox. frag.)	2002	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
42304	P	2002	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
42310	M	2002	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
42321	assoc. craniodental + postcranial elements	2002	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
42322	AST	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42323	AST	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42324	R.M (frag.)	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae	Aepyrotini		
42326	PHX (dist. frag.)	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42329	FIB	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42330	TAR	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42334	ULN (prox.)	2002	LEM 1	Area 8		Mammalia	Artiodactyla	Bovidae			
42337	TIB (dist.)	2002	LEM 1	Area 10		Mammalia	Artiodactyla	Bovidae			
42338	R.m1	2002	LEM 1	Area 10		Mammalia	Artiodactyla	Bovidae	Aepyrotini		
42339	CAL	2002	LEM 1	Area 10		Mammalia	Artiodactyla	Bovidae			
42345	L.MAN w/p (frag.)	2002	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae			
42348	HOR (frag.)	2002	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae			
42350	R.M (frag.)	2002	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae	Aepyrotini (cf.)		
42361	P	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
42362	R.m3 (frag.)	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae	Aepyrotini		
42363	M	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
42378	AST	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
42379	L.m3	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
42380	M	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae	Aepyrotini		
42381	L.M3	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae	Aepyrotini		
42382	R.MAN w/m1 (frag.)	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae	Aepyrotini (cf.)		
42383	P	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
42393	AST	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
42394	CUN	2002	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
44747	TEM (frag.)	2003	LEM 1	upslope in gully above Area 7		Mammalia	Artiodactyla	Bovidae			
44765	HOR (frag.)	2003	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae			
44768	L.M (frag.)	2003	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae			
44777	LUN	2003	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae			
44797	OCC condyle	2003	LEM 1	sieving area 1		Mammalia	Artiodactyla	Bovidae			
44798	L.MAN w/dp4-m1	2003	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
44802	MTT + AST + NAV	2003	LEM 1	Area 11 in situ, mudstones < Speck Tuff	*	Mammalia	Artiodactyla	Bovidae	Aepyrotini		

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
44817	immature postcranial elements (vertebrae, tarsals) and unerupted P	2003	LEM 1 Area 8			Mammalia	Artiodactyla	Bovidae			
44835	L.m1or2	2003	LEM 1 Area 7		*	Mammalia	Artiodactyla	Bovidae	Aepycerotini		
44839	L.m3 (frag.)	2003	LEM 1 Area 8			Mammalia	Artiodactyla	Bovidae			
44854	TAR	2003	LEM 1 East side of main gully			Mammalia	Artiodactyla	Bovidae			
44897	R.M1or2	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
44898	R.M1	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
44899	R.M1	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini (cf.)		
44900	L.m3 (frag.)	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
44901	R.m1	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
44902	R.m3	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Neotragini	<i>Madoqua</i>	
44903	R.m3 (frag.)	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
44904	R.p4	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
44905	CUN	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
44906	CUN	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
44907	RAD (prox.)	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
44925	NAV	2002	LEM 1 Area 11			Mammalia	Artiodactyla	Bovidae			
45761	TPX	2004	LEM 1 Area 4, south side of hill, 1/2 m from top		*	Mammalia	Artiodactyla	Bovidae			
45769	TAR	2004	LEM 1 Area 5, 3 m from top of hill, near gully, brown mudstones		*	Mammalia	Artiodactyla	Bovidae			
45771	TAR	2004	LEM 1 Area 6, brown mudstones 10 cm above sands		*	Mammalia	Artiodactyla	Bovidae			
45772	L.HOR (frag.)	2004	LEM 1 Area 8, sands		x	Mammalia	Artiodactyla	Bovidae	Tragelaphini	<i>Tragelaphus</i>	
45774	AST	2004	LEM 1 Area 7, east most point, in the sands at the top		x	Mammalia	Artiodactyla	Bovidae			
45776	TPX	2004	LEM 1 Area 7, just below microbreccia		*	Mammalia	Artiodactyla	Bovidae			
45785	TAR	2004	LEM 1 Area 8, sands		x	Mammalia	Artiodactyla	Bovidae			
45787	TAR	2004	LEM 1 Area 5, mudstones above sands		*	Mammalia	Artiodactyla	Bovidae			
45790	L.p4	2004	LEM 1 Area 11, sands 1 m > yellow silts		x	Mammalia	Artiodactyla	Bovidae			
45793	R.M3	2004	LEM 1 Area 7/9, sands		x	Mammalia	Artiodactyla	Bovidae	Aepycerotini		
45794	TIB (dist.)	2004	LEM 1 Area 7, speckled tuff		*	Mammalia	Artiodactyla	Bovidae			
45810	TAR	2004	LEM 1 Area 5, mudstones just below speckled tuff		*	Mammalia	Artiodactyla	Bovidae			
45811	R.i	2004	LEM 1 Area 5, mudstones just below speckled tuff		*	Mammalia	Artiodactyla	Bovidae			
45819	R.p	2004	LEM 1 Area 5, mudstones 3 m above speckled tuff		*	Mammalia	Artiodactyla	Bovidae			
45820	R.i	2004	LEM 1 Area 5, mudstones 3 m above speckled tuff		*	Mammalia	Artiodactyla	Bovidae			
45821	R.MAN w/p2-m3	2004	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
45824	L.MAN w/m1 (frag.)	2004	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
45825	AST	2004	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae			
45830	TPX	2004	LEM 1 sieving area 1			Mammalia	Artiodactyla	Bovidae	Aepycerotini		
45833	L.MAX w/M1 (frag.)	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae			
45836	R.MAN (edent. frag.)	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae			
45837	R.p	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae			
45838	TPX	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae			
45840	R.m3	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
45844	TAR	2004	LEM 1 sieving area 2			Mammalia	Artiodactyla	Bovidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
45845	TAR	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45848	L.p3	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
45859	L.p3	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae	Aepycerotini		
45900	P	2004	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
45902	L.p	2004	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae			
45911	TPX	2004	LEM 1	Area 14, claystones	*	Mammalia	Artiodactyla	Bovidae			
45920	M	2004	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae			
45929	P	2004	LEM 1	Area 7, speckled tuif	*	Mammalia	Artiodactyla	Bovidae			
45931	P	2004	LEM 1	Area 14, claystones	*	Mammalia	Artiodactyla	Bovidae			
45937	R.mlor2	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45939	dm	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45941	M	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45942	M	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45944	L.p	2004	LEM 1	sieving area 2		Mammalia	Artiodactyla	Bovidae			
45948	TAR	2004	LEM 1	Area 7, speckled tuif	*	Mammalia	Artiodactyla	Bovidae			
45954	CUN	2004	LEM 1	sieving, sands Area 10	*	Mammalia	Artiodactyla	Bovidae			
41063	LUN	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae (cf)			
41064	NAV	2001	LEM 1	Area 7	*	Mammalia	Artiodactyla	Bovidae (cf)			
41139	CAR	2001	LEM 1	Area 10	*	Mammalia	Artiodactyla	Bovidae (cf)			
41163	PIS	2001	LEM 1	Area 8	*	Mammalia	Artiodactyla	Bovidae (cf)			
41499	LUN	2001	LEM 1	Area 4, claystones	*	Mammalia	Artiodactyla	Bovidae (cf)			
42250	LUN	2002	LEM 1	Area 4, claystones	*	Mammalia	Artiodactyla	Bovidae (cf)			
42277	LUN	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae (cf)			
42293	LUN	2002	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Bovidae (cf)			
42327	LUN	2002	LEM 1	Area 8	*	Mammalia	Artiodactyla	Bovidae (cf)			
42328	LUN	2002	LEM 1	Area 8	*	Mammalia	Artiodactyla	Bovidae (cf)			
42357	LUN	2002	LEM 1	Area 13, claystones	*	Mammalia	Artiodactyla	Bovidae (cf)			
36501	I	1995	LEM 1	na		Mammalia	Artiodactyla	Bovidae (cf)			
36503	p4 (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36504	M (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36506	m (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36537	i (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36875	P (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36876	M (frag.)	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36936	IPX	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36964	c	1995	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
36965	p1 (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
38315	M (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
38317	M (frag.)	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
40857	P + M (frags.)	2000	LEM 1	Area 6, sands	x	Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
40858	PPX or IPX	2000	LEM 1	Area 6, sands	x	Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
40887	PPX (dist. frag.)	2000	LEM 1	Area 5, claystones	*	Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
40915	m (frag.)	2000	LEM 1	Area 9/10		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41140	CAR	2001	LEM 1	Area 10		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41141	CUN	2001	LEM 1	Area 10		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41147	m1or2 (frag.)	2001	LEM 1	Area 8		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41176	TPX	2001	LEM 1	Area 9		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41190	SES	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41352	m (frags.)	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41353	R.P1,D2,M1	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41354	R.d4	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		
41364	TIB (dist.)	1999	LEM 1	na		Mammalia	Artiodactyla	Hippopotamidae	Hippopotaminae		

Appendix I. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41426	CAR	1999	LEM 1 na			Mammalia	Artiodactyla	Hippopotamidae			
41461	PHX (dist. frag.)	2001	LEM 1 Area 4			Mammalia	Artiodactyla	Hippopotamidae			
45823	AST	2004	LEM 1 Area 11, sands 4 m > yellow silts		x	Mammalia	Artiodactyla	Hippopotamidae			
36512	P1	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36561	L.m2 (frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i>
36564	R.m2	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36568	R.+L.m3 (frags.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36571	R.M2	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36572	L.I1-2 + R.I3	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36573	L.m1	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36574	p3 germ	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
36584	L.dp4	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
36585	L.m3	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
36862	dc	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i>
36863	MTP	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36864	MTP (prox.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36931	M germ	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36937	ULN (prox.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36943	L.c (frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36945	p3 germ	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36953	SCA	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36954	P (frag.)	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
36956	VER axis	1995	LEM 1 na			Mammalia	Artiodactyla	Suidae			
38318	R.NAV	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
38319	LUN	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
38321	AST	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
41362	R.p3	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
41376	L.MTC I-III + PHX	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
41377	RAD (prox.)	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
41408	C	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
41417	m3 (frag.)	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae			
41435	L.m2	2001	LEM 1 geological trench on south side of main gully, SW of Area 13			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
41462	L.i1, L.p1, R.dp4, R.+L.m1	1999	LEM 1 na			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
42344	M (frags.)	2002	LEM 1 Area 11			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
42370	R.I1	2002	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
42385	L.i1 + R.p2	2002	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
44760	R.d12	2003	LEM 1 Area 11			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
44793	C	2003	LEM 1 Area 6 (cobbles and sands)		x	Mammalia	Artiodactyla	Suidae			
44794	P	2003	LEM 1 Area 12			Mammalia	Artiodactyla	Suidae			
44803	L.MAN (frag.) w/p4-m3	2003	LEM 1 Area 6, sands		x	Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i>
44887	L.m2	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
44888	R.m1	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
44889	R.d11	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
44890	L.p4	2003	LEM 1 sieving area 1			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
45783	R.M3	2004	LEM 1 Area 8, sands		x	Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
40990	R.p1	2000	LEM 1 Area 9/10			Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i>
41183	assoc. MAN deciduous dentition	2001	LEM 1 Area 14, claystones		*	Mammalia	Artiodactyla	Suidae		<i>Nyanzachoerus</i>	<i>syrticus</i> (cf.)
36508	L.C	1995	LEM 1 na			Mammalia	Carnivora	Mustelidae			
36518	L.C + R.c	2002	LEM 1 Area 13, claystones		*	Mammalia	Carnivora	Mustelidae	Guloninae	<i>Plestogulo</i>	<i>botori</i>

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
36577	R.MAN w/p2-p4, alveolus of p1 + c	1995/2001	LEM 1 Area 7		*	Mammalia	Carnivora	Herpestidae	Herpestinae	<i>Herpestes</i>	
36578	R.MAN (frag.) w/p3-4	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae	<i>Genetta</i>	sp. indet. "x"
36581	R.MAN w/p4-m1 + m2 roots	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae	<i>Genetta</i>	sp. indet. "x"
36595	R.MAN w/p + m alveoli	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae	<i>Genetta</i>	sp. indet. "y"
36596	MTP (dist.)	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae		
36597	R.MAN (edent. frag.)	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae		
36598	R.MAN w/p4 + p3, m1 roots	1995	LEM 1 na		x	Mammalia	Carnivora	Hyaenidae		<i>Hyaenictis</i>	<i>hendeyi</i>
36892	L.MAN (frag.) w/p3	1995	LEM 1 na			Mammalia	Carnivora	Herpestidae	Herpestinae	<i>Helogale</i>	
36926	R.c root + MAN symph.	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae	<i>Genetta</i>	sp. indet. "y"
36927	L.MAN (frag.) w/p alveoli	1995	LEM 1 na			Mammalia	Carnivora	Viverridae	Viverrinae	<i>Genetta</i>	sp. indet. "y"
36928	L.C	1995	LEM 1 na		x	Mammalia	Carnivora	Felidae	Machairodontinae	<i>Lokotunjailurus</i>	<i>enageritus</i>
36929	MAX w/P4	1995	LEM 1 na			Mammalia	Carnivora	Viverridae			
36951	FEM (shaft)	1995	LEM 1 na			Mammalia	Carnivora (cf.)				
36955	L.MAN w/c root	1995	LEM 1 na			Mammalia	Carnivora	Viverridae			
36957	MAN (frag.)	1995	LEM 1 na			Mammalia	Carnivora	Viverridae			
36959	RAD (dist.)	1995	LEM 1 na			Mammalia	Carnivora	Viverridae			
38310	R.MAN (frag.) w/p3	1999	LEM 1 na			Mammalia	Carnivora (cf.)				
40888	ULN (prox.)	2000	LEM 1 Area 5, claystones		*	Mammalia	Carnivora				
40890	MAN (edent. frag.)	2000	LEM 1 Area 4/5, claystones		*	Mammalia	Carnivora				
41008	P	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41053	p1	2001	LEM 1 Area 7		*	Mammalia	Carnivora (cf.)				
41056	CAL	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41082	M	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41095	M	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41097	C	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41099	P	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41114	R.MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41123	PHX (prox. frag.)	2001	LEM 1 Area 7		*	Mammalia	Carnivora				
41149	c	2001	LEM 1 Area 8		*	Mammalia	Carnivora				
41174	FEM (prox.)	2001	LEM 1 Area 9		*	Mammalia	Carnivora				
41233	I	2001	LEM 1 Area 4, claystones		*	Mammalia	Carnivora				
41241	HUM (dist.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Carnivora				
41242	MTP (prox.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Carnivora				
41243	AST	2001	LEM 1 Area 4, claystones		*	Mammalia	Carnivora				
41245	MTP (prox.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Carnivora				
41253	TPX	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41263	TIB (dist.)	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41273	L.j	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41284	R.MI	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41285	L.m1	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41287	FEM (prox.)	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41288	ULN (prox.)	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41298	C (frag.)	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41330	MTT (dist. frag.) + 3 MTT (prox. frags.)	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41331	TPX	2001	LEM 1 Area 6		*	Mammalia	Carnivora				
41381	R.ULN (prox.)	1999	LEM 1 na			Mammalia	Carnivora				
41414	TPX	1999	LEM 1 na			Mammalia	Carnivora				
								Canidae	Caninae	<i>Ecyon</i>	<i>intrepidus</i> (aff.)
								Canidae	Caninae	<i>Ecyon</i>	<i>intrepidus</i> (aff.)

Appendix I. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41420	R. CRAN + TEMP frag. + R.P3-M1 + L.P3-M2	1999/2004	LEM 1	Area 11, sands 2 m > yellow silts	x	Mammalia	Carnivora	Mustelidae	Guloninae	<i>Plestogulo</i>	<i>botori</i>
41424	P	1999	LEM 1	na		Mammalia	Carnivora				
41427	HUM (dist.)	1999	LEM 1	na		Mammalia	Carnivora				
41433	R.C	1999	LEM 1	na		Mammalia	Carnivora				
41442	c	2001	LEM 1	Area 12		Mammalia	Carnivora				
41485	C	2001	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
42247	MAN (edent. frag.)	2002	LEM 1	Area 4	*	Mammalia	Carnivora				
42266	CAL	2002	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
42269	R.m1 (frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
42286	MTT (dist.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
42287	PHX	2002	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
42302	MAN (edent. frag.)	2002	LEM 1	Area 7	*	Mammalia	Carnivora				
42309	R.MAX w/M2 + M3	2002	LEM 1	Area 7	*	Mammalia	Carnivora				
42319	R.MAN (edent. frag.)	2002	LEM 1	Area 7	*	Mammalia	Carnivora				
42320	R.MAN (frag.) w/m alveoli	2002	LEM 1	Area 7	*	Mammalia	Carnivora				sp. indet. "y"
42358	PAT	2002	LEM 1	sieving area 1		Mammalia	Carnivora (cf.)				
42384	C (frag.)	2002	LEM 1	sieving area 1		Mammalia	Carnivora				
44783	p (frag.)	2003	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
44818	TPX	2003	LEM 1	Area 8		Mammalia	Carnivora				
44822	M1	2003	LEM 1	Area 5, claystones	*	Mammalia	Carnivora				
44852	RAD (prox.)	2003	LEM 1	upslope in gully above Area 7		Mammalia	Carnivora				
44915	i	2003	LEM 1	sieving area 1		Mammalia	Carnivora				
45773	FEM (prox.)	2004	LEM 1	Area 8, sands	x	Mammalia	Carnivora				
45780	L.M1	2004	LEM 1	Area 7, just below microbreccia	*	Mammalia	Carnivora				
45788	ULN (prox.)	2004	LEM 1	Area 11, mudstones 6 m > yellow silts	*	Mammalia	Carnivora				
45791	TPX	2004	LEM 1	Area 11, sands 2 m > yellow silts	x	Mammalia	Carnivora				
45802	R.p4	2004	LEM 1	Area 7, speckled tuff	*	Mammalia	Carnivora				<i>albicauda</i> (aff.)
45822	R.ULN (prox.)	2004	LEM 1	Area 7, speckled tuff	*	Mammalia	Carnivora				
45828	IPX	2004	LEM 1	sieving area 1		Mammalia	Carnivora (cf.)				
45832	L.MAN wp3-4	2004	LEM 1	sieving area 2		Mammalia	Carnivora				<i>major</i>
45834	PAT	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45835	m1	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45863	P3 (frag.)	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45864	M	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45867	R.II	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45881	C	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45882	C	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45883	C	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45884	MAN (edent. frag.)	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45890	RAD	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45891	MTP	2004	LEM 1	sieving area 2		Mammalia	Carnivora				
45924	C	2004	LEM 1	Area 13, claystones	*	Mammalia	Carnivora (cf.)				
45925	dm	2004	LEM 1	Area 7	*	Mammalia	Carnivora (cf.)				
45930	C	2004	LEM 1	Area 14, claystones	*	Mammalia	Carnivora (cf.)				
45933	P	2004	LEM 1	Area 14, claystones	*	Mammalia	Carnivora (cf.)				
45951	L.i	2004	LEM 1	sieving, sands Area 10	*	Mammalia	Carnivora				
36517	I		LEM 1	Area 5, top of hill	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
36534	L.MAN wp4-m2	1995	LEM 1	na		Mammalia	Hyracoidea	Procaviidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
36539	CAL	1995	LEM 1 na			Mammalia	Hyracoidea	Procaviidae			
36575	R.MAN w/p2-m2	1995	LEM 1 na			Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
36934	MAN w/m	1995	LEM 1 na			Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
40907	MAN (edent. frag.)	2000	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
40909	II	2000	LEM 1 Area 9/10			Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
40910	C	2000	LEM 1 Area 9/10			Mammalia	Hyracoidea	Procaviidae			
40993	R.MAN w/m3	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
41006	MAN (edent. frag.) w/ symphysis	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
41042	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41043	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41047	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41080	R.FEM (dist.)	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41090	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41091	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41098	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41100	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41102	C frag.	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41103	m	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41104	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41108	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41109	M (frag.)	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41110	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41115	MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41116	R.+L.MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41125	M	2001	LEM 1 Area 7		*	Mammalia	Hyracoidea	Procaviidae			
41152	M	2001	LEM 1 Area 8			Mammalia	Hyracoidea	Procaviidae			
41153	associated dentition	2001	LEM 1 Area 8			Mammalia	Hyracoidea	Procaviidae			
41215	C	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41231	M	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41235	IPX	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41240	MAN (edent. frag.)	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41250	C	2001	LEM 1 Area 4, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41259	M	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41262	C (frag.)	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41266	M	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41267	M	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41268	half M	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41269	L.M3	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41270	P	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41289	R.MAN w/p2-3	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
41303	M	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae			
41304	R.+L.MAN w/L.M3	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
41418	M	1999	LEM 1 na			Mammalia	Hyracoidea	Procaviidae			
41432	L.FEM (prox. shaft)	1999	LEM 1 na			Mammalia	Hyracoidea	Procaviidae			
41454	C	2001	LEM 1 na			Mammalia	Hyracoidea	Procaviidae			
41460	L.II (frag.)	2001	LEM 1 na			Mammalia	Hyracoidea	Procaviidae			
41465	M (frag.)	2001	LEM 1 Area 5, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41466	M (frag.)	2001	LEM 1 Area 5, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41467	L.FEM (dist.)	2001	LEM 1 Area 5, claystones		*	Mammalia	Hyracoidea	Procaviidae			
41472	ULN (dist.)	2001	LEM 1 Area 6		*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41488	M	2001	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
42257	R.II	2002	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
42259	RAD (prox.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
42272	R.HUM (dist.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
42282	M _s	2002	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
42283	I	2002	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
42300	L.M3	2002	LEM 1	Area 7	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
42305	M	2002	LEM 1	Area 7	*	Mammalia	Hyracoidea	Procaviidae			
42306	CAL	2002	LEM 1	Area 7	*	Mammalia	Hyracoidea	Procaviidae			
42313	M	2002	LEM 1	Area 7	*	Mammalia	Hyracoidea	Procaviidae			
42331	M	2002	LEM 1	Area 8	*	Mammalia	Hyracoidea	Procaviidae			
42336	RAD (prox.)	2002	LEM 1	Area 10	*	Mammalia	Hyracoidea	Procaviidae			
42351	M	2002	LEM 1	Area 13, claystones	*	Mammalia	Hyracoidea	Procaviidae			
42374	C	2002	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
42375	C	2002	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
42395	L.MAN w/m1 + m2 roots	2002	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
44776	L.HUM (dist.)	2003	LEM 1	Area 7	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
44787	C	2003	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
44796	C	2003	LEM 1	Area 10	*	Mammalia	Hyracoidea	Procaviidae			
44804	MAX/MAN (frags.) w/7 teeth	2003	LEM 1	Area 8	*	Mammalia	Hyracoidea	Procaviidae		<i>Dendrohyrax</i>	<i>validus</i> (cf.)
44805	C	2003	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
44807	M	2003	LEM 1	Area 9	*	Mammalia	Hyracoidea	Procaviidae			
44825	M	2003	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
44849	HUM (dist.)	2003	LEM 1	Area 8	*	Mammalia	Hyracoidea	Procaviidae			
44850	R.i	2003	LEM 1	Area 8	*	Mammalia	Hyracoidea	Procaviidae			
44891	HUM (dist.)	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44909	MTC III (prox.)	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44910	PAT	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44911	PAT	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44912	ULN (prox)	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44918	M	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
44919	M	2003	LEM 1	sieving area 1	*	Mammalia	Hyracoidea	Procaviidae			
45777	MAN (edent. frag.)	2004	LEM 1	Area 7, just below microbreccia	*	Mammalia	Hyracoidea	Procaviidae			
45779	RAD (prox.)	2004	LEM 1	Area 7, just below microbreccia	*	Mammalia	Hyracoidea	Procaviidae			
45786	i	2004	LEM 1	Area 6, mudstones above sands	*	Mammalia	Hyracoidea	Procaviidae			
45795	assoc. postcrania	2004	LEM 1	Area 7, speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45796	M	2004	LEM 1	Area 9, speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45807	R.MAX (frag.) w/M	2004	LEM 1	Area 6, mudstones 1 m above speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45808	R.m	2004	LEM 1	Area 5, mudstones, 1 m above speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45812	L.M3	2004	LEM 1	Area 5, mudstones 1/2 m above yellow silts	*	Mammalia	Hyracoidea	Procaviidae			
45870	C	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45871	L.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45872	L.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45873	L.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45874	L.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45875	R.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45876	R.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
45877	L.M	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45878	L.M	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45879	R.M	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45880	R.m	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45885	I	2004	LEM 1	sieving area 2	*	Mammalia	Hyracoidea	Procaviidae			
45904	R.m	2004	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
45905	L.m	2004	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
45906	L.M	2004	LEM 1	Area 5, claystones	*	Mammalia	Hyracoidea	Procaviidae			
45910	R.Ms (2)	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45918	M	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Hyracoidea	Procaviidae			
45949	ULN (prox.)	2004	LEM 1	sieving, sands Area 10	*	Mammalia	Hyracoidea	Procaviidae			
45781	VER	2004	LEM 1	Area 7, just below microbreccia	*	Mammalia	Hyracoidea (cf.)	Procaviidae			
41009	MAN (edent. frag.)	2001	LEM 1	Area 7	*	Mammalia	Insectivora				
41041	MAN (edent. frag.)	2001	LEM 1	Area 7	*	Mammalia	Insectivora				
41079	MAN (edent. frag.)	2001	LEM 1	Area 7	*	Mammalia	Insectivora				
42373	MAN (frag.) w/2 teeth	2002	LEM 1	sieving area 1	*	Mammalia	Insectivora				
44816	L.MAN w/c	2003	LEM 1	Area 9	*	Mammalia	Insectivora				
36939	R.MAX w/P2-4	1995	LEM 1	na	*	Mammalia	Lagomorpha	Leporidae		<i>Alliepus</i>	
36961	R.TIB (dist.)	1995	LEM 1	na	*	Mammalia	Lagomorpha	Leporidae			
36962	L.CAL (frag.)	1995	LEM 1	na	*	Mammalia	Lagomorpha	Leporidae			
40876	R.+L.HUM (dist.) + RAD (prox.)	2000	LEM 1	Area 6	*	Mammalia	Lagomorpha	Leporidae			
40895	L.CAL	2000	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
40901	PHX	2000	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
40917	OCX (frag.)	2000	LEM 1	Area 9/10	*	Mammalia	Lagomorpha	Leporidae			
40991	L.TIB (dist.)	2001	LEM 1	Area 2	*	Mammalia	Lagomorpha	Leporidae			
40997	Tooth	2001	LEM 1	Area 4, claystones	*	Mammalia	Lagomorpha	Leporidae			
41001	R.TIB (dist.) + NAV	2001	LEM 1	Area 5, claystones	*	Mammalia	Lagomorpha	Leporidae			
41003	L.FEM (prox. epiphysis)	2001	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
41025	R.TIB (dist.)	2001	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
41065	PPX hindlimb	2001	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
41078	M	2001	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
41254	I	2001	LEM 1	Area 6	*	Mammalia	Lagomorpha	Leporidae			
41323	R.+L.AST (frags.)	2001	LEM 1	Area 6	*	Mammalia	Lagomorpha	Leporidae			
41478	CAL (frag.)	2001	LEM 1	Area 6	*	Mammalia	Lagomorpha	Leporidae			
41486	FEM (prox.)	2001	LEM 1	Area 5, claystones	*	Mammalia	Lagomorpha	Leporidae			
41493	MTP (dist. frag.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Lagomorpha	Leporidae			
42249	PHX (dist. frag.)	2002	LEM 1	Area 4, claystones	*	Mammalia	Lagomorpha	Leporidae			
42253	L.CUB	2002	LEM 1	Area 4, claystones	*	Mammalia	Lagomorpha	Leporidae			
42265	R.AST	2002	LEM 1	Area 5, claystones	*	Mammalia	Lagomorpha	Leporidae			
42290	L.CAL (frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Lagomorpha	Leporidae			
42292	M	2002	LEM 1	Area 5, claystones	*	Mammalia	Lagomorpha	Leporidae			
42299	L.p3	2002	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
42307	R.HUM (dist.)	2002	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
42317	PHX (dist. frag.)	2002	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
42356	R.AST	2002	LEM 1	Area 13, claystones	*	Mammalia	Lagomorpha	Leporidae			
42368	P3 + M1-2	2002	LEM 1	sieving area 1	*	Mammalia	Lagomorpha	Leporidae			
44763	L.HUM (dist.)	2003	LEM 1	Area 4, claystones	*	Mammalia	Lagomorpha	Leporidae			
44772	L.FEM (dist.)	2003	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
44773	L.FEM (dist.)	2003	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
44780	MAX (frag.)	2003	LEM 1	Area 7	*	Mammalia	Lagomorpha	Leporidae			
44812	I	2003	LEM 1	Area 9	*	Mammalia	Lagomorpha	Leporidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
44813	IPX	2003	LEM 1 Area 9		*	Mammalia	Lagomorpha	Leporidae			
44824	PPX	2003	LEM 1 Area 5, claystones		*	Mammalia	Lagomorpha	Leporidae			
45764	I	2004	LEM 1 Area 4, south side of hill, 1/2 m from top		*	Mammalia	Lagomorpha				
45801	m	2004	LEM 1 Area 7, speckled tuff		*	Mammalia	Lagomorpha	Leporidae			
45803	TIB (dist.)	2004	LEM 1 Area 7, speckled tuff		*	Mammalia	Lagomorpha				
45935	PHX	2004	LEM 1 sieving area 2		*	Mammalia	Lagomorpha				
45936	AST	2004	LEM 1 sieving area 2		*	Mammalia	Lagomorpha				
36500	R.M2	1995	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
36505	L.M3	1995	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
36510	M (frag.)	1995	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
36511	R.M2	1995	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
36866	M (frag.)	1995	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
36935	L.M (frag.)	1995	LEM 1 preservation matches sands		x	Mammalia	Perrissodactyla	Equidae		<i>Eurygnathohippus</i>	<i>feibelli</i> (cf.)
38312	R.M3	1999	LEM 1 preservation matches sands		x	Mammalia	Perrissodactyla	Equidae		<i>Eurygnathohippus</i>	<i>feibelli</i> (cf.)
38320	TAL	1999	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
40994	L.p4	2001	LEM 1 Area 4		*	Mammalia	Perrissodactyla	Equidae			
41218	M (frag.)	2001	LEM 1 Area 13, claystones		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41302	M (frag.)	2001	LEM 1 Area 6		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41359	P	1999	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41360	MTP (dist.)	1999	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41375	R.p4 (frag.)	1999	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41431	Tooth (frag.)	1999	LEM 1 na		*	Mammalia	Perrissodactyla	Rhinocerotidae			
41453	MTT (prox.)	2001	LEM 1 Area 11		*	Mammalia	Perrissodactyla	Rhinocerotidae			
42279	M (frag.)	2002	LEM 1 Area 5, claystones		*	Mammalia	Perrissodactyla	Rhinocerotidae			
44926	m (frag.)	2002	LEM 1 Area 11 (NOT in situ)		*	Mammalia	Perrissodactyla	Equidae			
46502	L.m1or2	1995	LEM 1 na		*	Mammalia	Primate		Colobinae		
36514	R.MAN (p3-m3)	1995/2000	LEM 1 Area 6, claystones		*	Mammalia	Primate	Cercopithecidae	Colobinae		large taxon
36515	R.MAN w/1, c, m1-2, L.MAN w/1l-p3, m2-3, L.MAX w/P3-M3	1995/2000	LEM 1 Area 6, claystones		*	Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	small taxon
36516	L.MAX w/P3-M3	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		small taxon
36519	L.HUM (dist.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36521	L.MAX w/P3-M3	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36528	R.ULN (prox.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36540	L.HUM (dist.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36541	L.ULN (frag.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36542	L.ULN (prox.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36543	MAN w/Ldp3-m1	1995/2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36544	R.M3	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36545	L.RAD (prox.)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36546	L.MAN w/dm2-m1 + m2 in crypt	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36547	R.CAL	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		small taxon
36550	MAX w/R.C-P3 + L.M1-3	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36551	L.c (female)	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36552	L.i2	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36553	R.MAN w/dp4 + m1	1995	LEM 1 na		*	Mammalia	Primate	Cercopithecidae	Colobinae		
36555	MAN dentition w/L.p3-4, R.p3-m1, probably assoc. w/NK 36502	1995/2004	LEM 1 Area 9		*	Mammalia	Primate	Cercopithecidae	Colobinae		large taxon

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
36558	m (frag.)	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae	Colobinae		
36559	R.m1or2	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae	Colobinae		
36560	R.HUM (dist.)	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae		<i>Paracolobus</i>	<i>enkorikae</i>
36586	L.MAX w/broken C root, P3-4 + M2-3	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae		<i>Paracolobus</i>	<i>enkorikae</i>
36587	R.+L.MAN w/dentition	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i>
36932	L.ULN (prox.)	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae			
36933	R.MAX w/roots I1-12	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae	Colobinae		
36941	R.MAN w/I2	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae	Colobinae		
36944	RAD (prox. shaft)	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae			
36958	MTT shaft (R III)	1995	LEM 1 na			Mammalia	Primate	Cercopithecidae			
38308	L.c	1999	LEM 1 na			Mammalia	Primate	Cercopithecidae			
38309	R.C	1999	LEM 1 na			Mammalia	Primate	Cercopithecidae			
40859	RAD (prox.) + VER (frag.)	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae			
40860	L.dP4	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae	Colobinae		
40861	L.m1or2	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae	Colobinae		
40870	L.I	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae	Colobinae		
40877	RAD (dist.)	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae			
40878	VER caudal	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae			
40880	R.+L.PAT + FEM (dist.)	2000	LEM 1 Area 6		*	Mammalia	Primate	Cercopithecidae			
40882	R.M	2000	LEM 1 Area 5, claystones		*	Mammalia	Primate	Cercopithecidae	Colobinae		
40885	L.MAN w/m2	2000	LEM 1 Area 5, claystones		*	Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i>
40889	FEM (prox.)	2000	LEM 1 Area 4/5, claystones		*	Mammalia	Primate	Cercopithecidae			
40891	FEM (prox.)	2000	LEM 1 Area 4/5, claystones		*	Mammalia	Primate	Cercopithecidae			
40894	VER caudal	2000	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
40900	R.MAX (frag.) w/I1-2, C + P3 alveoli (juvenile)	2000	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
40911	TEM (frag.)	2000	LEM 1 Area 9/10			Mammalia	Primate	Cercopithecidae			
40912	CAR	2000	LEM 1 Area 9/10			Mammalia	Primate	Cercopithecidae			
40914	PAT	2000	LEM 1 Area 9/10			Mammalia	Primate	Cercopithecidae			
40992	L.NAV	2001	LEM 1 Area 4, claystones		*	Mammalia	Primate	Cercopithecidae			
41000	assoc. p + m	2001	LEM 1 Area 5, claystones		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41007	R.P4	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41013	IPX	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41014	half M	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41017	PHX (dist. frag.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41018	TIB (prox. epiphysis)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41020	half m	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41028	R.HUM (dist.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41030	L.P4	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41033	M (frag.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41051	R.c	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41058	half m	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41059	RAD (prox. epiphysis)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41061	VER (frag.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41062	TPX	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41066	MTC V (prox.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41073	half M	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41075	L.c	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		
41081	PHX (prox. frag.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae			
41094	M (frag.)	2001	LEM 1 Area 7		*	Mammalia	Primate	Cercopithecidae	Colobinae		

Appendix I. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41111	MTC III or IV (prox.)	2001	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
41122	PHX (prox. frag.)	2001	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
41124	PHX (dist. frag.)	2001	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
41150	L.m3	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41151	L.M	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41159	R.ZYG	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
41161	m (frag.)	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41162	M (frag.)	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41164	MAN (edent. frag.)	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
41165	ZYG (frag.)	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
41168	MAN (edent. frag.)	2001	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
41169	R.HUM (dist.)	2001	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
41171	i (very worn)	2001	LEM 1	from stream bed on south side of main gully	*	Mammalia	Primate	Cercopithecidae			
41172	L.i1	2001	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41175	FEM (prox.)	2001	LEM 1	Area 9	*	Mammalia	Primate	Cercopithecidae			
41177	RAD (dist.)	2001	LEM 1	Area 14, claystones	*	Mammalia	Primate	Cercopithecidae			
41182	assoc. dentition	2001	LEM 1	Area 14, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41186	OCX	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41196	L.HUM (dist.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41207	ULN (dist.)	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41208	PAT	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41210	R.c	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41211	R.+L.i1	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41212	L.c	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41213	L.dp3	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41214	L.m1or2	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41216	L.M1or2	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41217	R.LM1or2	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41222	PHX (dist. frag.)	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41225	R.p4	2001	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
41234	R.MAN w/dp4	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41236	L.i	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41237	C (frag.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41238	L.m1or2	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41239	L.II	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41257	L.FEM (prox.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41260	L.m3	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41261	M (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41279	M (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41280	L.m1or2	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41281	R.M3	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41282	R.m3 (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41283	R.C	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41286	L.C	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41294	PAT	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41295	L.HUM (dist.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41296	i (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41301	R.MAN (frag.) w/m2-3	2001	LEM 1	Area 4, gully	*	Mammalia	Primate	Cercopithecidae			
41305	R.+L.MAN (frag.) w/R.m2-3 + L.p4-m2	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i> small taxon
41307	R.ULN (prox.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41308	R.ULN (prox.) + RAD	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41309	L.CUB	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41310	L.EXT	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41317	R.TIB (dist.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41318	R.FRO (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41319	R.HUM (dist.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41320	OCC (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41321	R.MAX (frag.) w/P4-M3 + isolated L.M2 + L.C	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		small taxon
41322	L.II	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41325	MTT (dist. frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41326	MTT (dist. frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41327	PHX (dist. frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41328	VER caudal	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41332	MTP (shaft frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41333	VER caudal (frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41334	PHX (dist. frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41370	L.C	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41383	SCA glenoid (frag.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41405	L.CAL	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41407	HUM (dist. shaft frag.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41410	RAD (prox.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41411	RAD (prox.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41412	L.HUM (dist.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41413	R.HUM (dist.)	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41419	L.MAX w/P3-M2 roots	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41441	L.II	2001	LEM 1	Area 12	*	Mammalia	Primate	Cercopithecidae	Colobinae		
41443	L.c	2001	LEM 1	Area 12	*	Mammalia	Primate	Cercopithecidae			
41444	R.II	2001	LEM 1	Area 12	*	Mammalia	Primate	Cercopithecidae			
41445	R.Mlor2	2001	LEM 1	Area 12	*	Mammalia	Primate	Cercopithecidae			
41463	L.C	1999	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
41471	MTT III (prox. frag.)	2001	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
41487	TPX	2001	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
41491	RAD (prox.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41492	L.HUM (dist.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41494	PPX (prox. frag.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41495	IPX	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41496	PPX	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41497	L.MTT V (prox.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
41500	L.MTT III + IV	2001	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
42248	R.il	2002	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42256	R.i2	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42258	R.c	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42260	L.MI+2 (frags.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42261	RAD (prox. epiphysis)	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42263	P	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42273	HUM (dist.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42274	PHX	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42275	L.M	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42276	MAN w/L.i1, R.p-m3	2002	LEM 1	Area 5 top of hill	*	Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i>
42278	VER axis	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		

Appendix I. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
42284	R.MAN w/dm1, m1 + m2 erupting	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42288	IPX	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
42294	IPX	2002	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
42297	PAT	2002	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
42308	MTT (dist.)	2002	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
42312	L.dm1	2002	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42325	R.p4	2002	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae	Colobinae		
42332	MAN (edent. frag.)	2002	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
42333	I	2002	LEM 1	Area 8	*	Mammalia	Primate	Cercopithecidae			
42341	R.i2	2002	LEM 1	Area 10	*	Mammalia	Primate	Cercopithecidae			
42342	TPX	2002	LEM 1	Area 10	*	Mammalia	Primate	Cercopithecidae			
42343	L.P3	2002	LEM 1	Area 10	*	Mammalia	Primate	Cercopithecidae			
42346	assoc. L.II-RC + M1	2002	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
42347	R.ml or 2	2002	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
42352	L.I	2002	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
42353	R.dm2	2002	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
42354	L.p3	2002	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
42359	L.p4	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42364	R.M3	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42365	R.il	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42366	L.i2	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42367	PPX	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42372	R.C (frag.)	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42376	assoc. P4-M2	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42386	L.m3	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42387	L.ml	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42388	R.+L.C (frags.)	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42389	AST	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
42392	R.c	2002	LEM 1	sieving area 1	*	Mammalia	Primate	Cercopithecidae			
44761	R.c	2002	LEM 1	na	*	Mammalia	Primate	Cercopithecidae			
44762	R.i2	2003	LEM 1	Area 4, claystones	*	Mammalia	Primate	Cercopithecidae			
44766	R.HUM (dist.)	2003	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
44767	IPX	2003	LEM 1	Area 13, claystones	*	Mammalia	Primate	Cercopithecidae			
44769	L.c (male)	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
44770	MAN w/c frag., L.p3- m3, R.c, R.ml-3 + isolated L.II-2, L.M1, R.I2-M1	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
44774	L.II	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
44775	R.p3	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
44779	i root (frag.)	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
44782	L.CAL	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
44784	I (frag.)	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
44785	IPX	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
44788	MTT (prox. frag.)	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
44790	R.i2	2003	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
44791	R.AST	2003	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
44792	R.M3	2003	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			
44799	TPX	2003	LEM 1	Area 6	*	Mammalia	Primate	Cercopithecidae			

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
44800	L.MAN w/di1, dm1-2, ml in crypt, gonial angle, ascending ramus, condyle + coronoid process	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44808	dm2	2003	LEM 1	Area 9	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44814	R.p3 or 4 (frag.)	2003	LEM 1	Area 9	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44819	MTP (dist. frag.)	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44821	dm2	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44823	L.dM1	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44828	EXT	2003	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44836	L.HUM (dist. shaft)	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44837	RAD (shaft)	2003	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae	Colobinae		
44840	R.m3	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44841	R.M3	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44842	L.M1or2	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44843	L.I1 (frag.)	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44844	I (frag.)	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44845	L.I	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44846	L.C (female)	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44847	L.c (female)	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44848	L.i2	2003	LEM 1	Area 8		Mammalia	Primate	Cercopithecidae	Colobinae		
44853	R.i2	2003	LEM 1	East side of main gully		Mammalia	Primate	Cercopithecidae	Colobinae		
44859	R.c (frag.)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44860	L.c	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		large taxon
44861	R.dc	2002	LEM 1	Area 9		Mammalia	Primate	Cercopithecidae	Colobinae		
44863	R.M3 (frag.)	2002	LEM 1	Area 9		Mammalia	Primate	Cercopithecidae	Colobinae		
44864	R.m3	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44865	L.m1or2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44866	R.+L.m3s (antimeres)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i>
44867	R.p3	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		large taxon
44868	L.p4	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		large taxon
44870	R.p3	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		large taxon
44871	L.m1or2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae	<i>Paracolobus</i>	<i>enkorikae</i>
44872	R.II	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44873	R.II	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44874	L.i1	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44875	L.i2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44876	R.i2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44877	L.m1or2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44878	R.i2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44879	L.i2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44880	L.i1 (very worm)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44881	R.dm2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44882	P3	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44883	L.dM2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44884	L.C (frag.)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44885	L.HUM (dist.)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44886	L.CAL	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44908	RAD (prox.)	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44923	dm	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
44924	L.i2	2003	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
45762	IPX	2004	LEM 1	Area 4, south side of hill, 1/2 m from top	*	Mammalia	Primate	Cercopithecidae			
45763	IPX	2004	LEM 1	Area 4, south side of hill, 1/2 m from top	*	Mammalia	Primate	Cercopithecidae			
45766	PPX	2004	LEM 1	Area 5, 3 m from top of hill, near gully, brown mudstones	*	Mammalia	Primate	Cercopithecidae			
45770	PPX	2004	LEM 1	Area 5, 3 m from top of hill, near gully, brown mudstones	*	Mammalia	Primate	Cercopithecidae			
45782	MAN (edent. frag.)	2004	LEM 1	Area 8, sands	x	Mammalia	Primate	Cercopithecidae	Colobinae		
45784	R.1	2004	LEM 1	Area 8, sands	x	Mammalia	Primate	Cercopithecidae			
45792	L.SCA (frag.)	2004	LEM 1	Area 7/9, sands	x	Mammalia	Primate	Cercopithecidae			
45797	R.m1or2	2004	LEM 1	Area 9, speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45805	L.M	2004	LEM 1	Area 6, mudstones above sands	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45806	R.i2	2004	LEM 1	Area 6, mudstones above sands	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45809	L.dp4	2004	LEM 1	Area 5, mudstones at level of speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45813	R.i1	2004	LEM 1	Area 5, mudstones 1/2 m > yellow silts	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45814	L.m1or2	2004	LEM 1	Area 5, mudstones 2 m above speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45815	L.m3	2004	LEM 1	Area 5, mudstones 3 m above speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45816	R.M1or2	2004	LEM 1	Area 5, mudstones 3 m above speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45817	TPX	2004	LEM 1	Area 5, mudstones 3 m above speckled tuff	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45826	L.m3	2004	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
45829	R.M1or2	2004	LEM 1	sieving area 1		Mammalia	Primate	Cercopithecidae	Colobinae		
45839	L.c	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45841	IPX	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45842	IPX	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45843	IPX	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45846	L.i2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45847	L.i1	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45849	R.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45850	R.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45851	R.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45852	L.M1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45853	R.P4	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45854	L.i1	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45855	R.P4	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45856	L.M	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45857	L.M	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45858	R.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45860	L.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45861	R.M3	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45862	L.P4	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45865	L.P3	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45866	R.m1or2	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45868	L.c	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45869	L.C	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45886	L.dp4	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
45887	L.dc	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae			
45888	L.dc	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae	Colobinae		
45889	L.p3	2004	LEM 1	sieving area 2		Mammalia	Primate	Cercopithecidae			
45901	L.c	2004	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
45903	L.c	2004	LEM 1	Area 5, claystones	*	Mammalia	Primate	Cercopithecidae			
45908	L.M3	2004	LEM 1	Area 9	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45909	R.M1or2	2004	LEM 1	Area 11, 8 m > yellow silts	*	Mammalia	Primate	Cercopithecidae	Colobinae		
45912	R.MAN (edent. frag.)	2004	LEM 1	Area 14, claystones	*	Mammalia	Primate	Cercopithecidae			
45913	L.M1or2	2004	LEM 1	Area 13, 3 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45914	R.i1	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Primate	Cercopithecidae			
45915	L.d1 + L.dc + L.dp4	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Primate	Cercopithecidae			
45916	R.p4	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Primate	Cercopithecidae			
45917	R.m1or2	2004	LEM 1	Areas 9/10 boundary; speckled tuff	*	Mammalia	Primate	Cercopithecidae			
45919	L.m1or2	2004	LEM 1	Area 11, 12 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45921	L.m1or2	2004	LEM 1	Area 10, 8 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45922	R.P4	2004	LEM 1	Area 10, 3 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45923	L.M1or2	2004	LEM 1	Area 10, 6 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45926	L.dp4	2004	LEM 1	Area 7	*	Mammalia	Primate	Cercopithecidae			
45932	L.p3	2004	LEM 1	Area 14, 7 m > yellow silts	*	Mammalia	Primate	Cercopithecidae			
45953	MTP (prox.)	2004	LEM 1	sieving, sands Area 10		Mammalia	Primate	Cercopithecidae			
45958	MAN (edent.)	2004	LEM 1	sieving, sands Area 10		Mammalia	Primate	Cercopithecidae			
45959	R.MTC V	2004	LEM 1	sieving, sands Area 10		Mammalia	Primate	Cercopithecidae			
41133	M (frag.)	2001	LEM 1	Area 10		Mammalia	Primate	Cercopithecidae			
41227	M (frag.)	2001	LEM 1	Area 4		Mammalia	Proboscidea	Gomphotheriidae		<i>Anancus</i>	<i>kenyensis</i>
41502	L.MAN w/m3 (frag.)	1999	LEM 1	preservation matches sands	x	Mammalia	Proboscidea				
36588	R.CAL	1995	LEM 1	na		Mammalia	Rodentia	Hystriidae			
36589	L.P4	1995	LEM 1	na		Mammalia	Rodentia	Hystriidae		<i>Xenohystrix</i>	
36590	R.M	1995	LEM 1	na		Mammalia	Rodentia	Hystriidae		<i>Xenohystrix</i>	
36893	I	1995	LEM 1	na		Mammalia	Rodentia	Hystriidae		<i>Hystrix</i>	
40995	R.MAN (frag.)	2001	LEM 1	Area 4 (from sands)	x	Mammalia	Rodentia	Muridae	Murinae		
40998	L.MAN frag. w/ broken I + m1-3 alveoli	2001	LEM 1	Area 4		Mammalia	Rodentia				
41002	I (frag.)	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Hystriidae		<i>Hystrix</i>	
41022	FEM (prox.)	2001	LEM 1	Area 7	*	Mammalia	Rodentia				
41024	OCX	2001	LEM 1	Area 7	*	Mammalia	Rodentia				
41046	MAX (frag.) w/P4-M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Sciuridae	Sciurinae	<i>Xerus</i>	
41048	MAN	2001	LEM 1	Area 7	*	Mammalia	Rodentia				
41049	R.MAN w/i-m3	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
41050	L.+R. pre-MAX w/Is	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae		
41052	L.M (frag.)	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Hystriidae		<i>Xenohystrix</i>	
41069	MAN (frag.) w/m	2001	LEM 1	Area 7	*	Mammalia	Rodentia				
41070	L.+R. pre-MAX w/Is	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae (cf.)		
41083	MAN (frag.) w/m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i>	
41084	MAN (frag.) w/m	2001	LEM 1	Area 7	*	Mammalia	Rodentia				
41085	R.I	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae		
41086	L.MAN (frag.) w/r+m alveolus	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae		
41087	R.MAN (frag.) w/m1-2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41088	L.MAN (frag.) w/m2-3	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Lemniscomys</i>	
41089	MAN (frag.) w/m1-2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i>	
41092	bulk isolated incisors	2001	LEM 1	Area 7	*	Mammalia	Rodentia				

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41093	bulk postcrania	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i> (cf.)	
41096	MAN (frag.) w/m1-3	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
41101	R.MAN (edent. frag.)	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41106	R.m1	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
41107	MAN (frag.) w/broken i+m1	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
41127	L.MAN w/i-m1	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i> (cf.)	
41128	R.M1	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i>	
41232	L.MAN w/m1-2	2001	LEM 1 Area 4		*	Mammalia	Rodentia	Muridae	Murinae		
41306	MAN (edent. frag.)	2001	LEM 1 Area 6		*	Mammalia	Rodentia	Muridae	Murinae		
41448	L.MAN w/i+m1-3 alveoli	2001	LEM 1 Area 12		*	Mammalia	Rodentia	Muridae	Murinae		
41449	R.MAN w/i+m1-3 alveoli	2001	LEM 1 Area 12		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
42281	L.dm1	2002	LEM 1 Area 5, claystones		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
42295	L.M1	2002	LEM 1 Area 5, claystones		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
42296	M3	2002	LEM 1 Area 6		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
42303	MAN (edent. frag.)	2002	LEM 1 Area 7		*	Mammalia	Rodentia	Sciuridae	Sciurinae	<i>Paraxerus</i>	
42311	R.MAN (frag.) w/i	2002	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i>	
42315	L.MAN (frag.) w/m1-2	2002	LEM 1 Area 7		*	Mammalia	Rodentia	Sciuridae	Sciurinae	<i>Xerus</i>	
42316	MAX (edent. frag.)	2002	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
42335	R.p4	2002	LEM 1 Area 7		*	Mammalia	Rodentia	Hystricidae	Hystricinae	<i>Xenohystrix</i>	
42360	MAX (frag.) w/M1	2002	LEM 1 sieving area 1		*	Mammalia	Rodentia	Muridae	Murinae		
44771	L.M3	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Hystricidae	Hystricinae		
44778	CAL	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Saidomys</i> (cf.)	
44815	R.MAN w/m1-3	2003	LEM 1 Area 9		*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i> (cf.)	
44830	R.MAX w/M1-2	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
44831	R.MAN (frag.) w/i	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
44832	R.MAN w/m2-3	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae		
44834	L.MAN (frag.) w/i	2003	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Murinae	<i>Aethomys</i> (cf.)	
44856	L.MAN w/i-m3	1995	LEM 1 na		*	Mammalia	Rodentia	Muridae	Murinae	<i>Lemniscomys</i>	
44857	R.I	1995	LEM 1 na		*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
44858	R.MAN w/i+m2-3	1995	LEM 1 na		*	Mammalia	Rodentia	Muridae	Murinae	<i>Atherurus</i>	
44892	i	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Hystricidae	Hystricinae	<i>Atherurus</i>	
44893	i	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Hystricidae	Hystricinae		
44894	cheek tooth (frag.)	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Hystricidae	Hystricinae		
44895	cheek tooth (frag.)	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Hystricidae	Hystricinae		
44896	R.M	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Hystricidae	Hystricinae	<i>Hystrix</i>	
44920	L.p4	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Sciuridae	Sciurinae	<i>Paraxerus</i>	
44921	L.MAX w/M1	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Muridae	Murinae	<i>Aethomys</i>	
44922	MAX (frag.) w/is	2003	LEM 1 sieving area 1		*	Mammalia	Rodentia	Muridae	Murinae		
45767	RAD (dist.)	2004	LEM 1 Area 5, 3 m from top of hill, near gully, brown mudstones		*	Mammalia	Rodentia	Muridae	Murinae		
45778	MAN w/i1	2004	LEM 1 Area 7, just below microbreccia		*	Mammalia	Rodentia	Sciuridae	Sciurinae	<i>Xerus</i> (cf.)	
45798	L.I	2004	LEM 1 Areas 9/10 boundary, 1/2 m > speckled tuff		*	Mammalia	Rodentia	Sciuridae	Sciurinae		
45907	R.MAN w/i-m3	2004	LEM 1 Area 7, speckled tuff		*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
45934	R.MAN w/i+m2	2004	LEM 1 Area 14, claystones		*	Mammalia	Rodentia	Thryonomyidae	Thryonomyinae	<i>Thryonomys</i>	
45945	L.MAN w/i1-m2	2004	LEM 1 sieving area 2		*	Mammalia	Rodentia	Thryonomyidae	Thryonomyinae	<i>Thryonomys</i>	
45946	R.MAN w/i1-m3	2004	LEM 1 sieving area 2		*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i>	
45947	R.MAX w/M1-3	2004	LEM 1 sieving area 2		*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthis</i>	
46232	R.m2	2001	LEM 1 Area 7		*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
46233	R.M2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Saidomys</i> (cf.)	
46234	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46235	L.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46236	R.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46237	L.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46238	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46239	L.MAN w/m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46240	L.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Saidomys</i> (cf.)	
46241	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46242	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46243	L.MAN w/m1-2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46244	R.M2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Acomys</i>	
46245	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46246	L.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
46247	R.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
46248	R.m2	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46249	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
46250	L.M1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
46251	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46252	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
46253	L.m1	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
36509	C (frag.)	1995	LEM 1	na	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
40881	RAD (dist.)	2000	LEM 1	Area 6	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
40908	HUM (dist.)	2000	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41118	PHX	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
41119	TAR	2001	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
41154	C	2001	LEM 1	Area 8	*	Mammalia	Rodentia	Muridae	Murinae	<i>Arvicanthhis</i>	
41166	MAN (condyle)	2001	LEM 1	Area 8	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
41265	RAD (dist.)	2001	LEM 1	Area 6	*	Mammalia	Rodentia	Muridae	Murinae	<i>Mastomys</i>	
41316	PHX	2001	LEM 1	Area 6	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41428	VER caudal	1999	LEM 1	na	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41429	VER caudal	1999	LEM 1	na	*	Mammalia	Rodentia	Muridae	Gerbillinae	<i>Tatera</i>	
41434	Tooth root	1999	LEM 1	na	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
41446	CAR	2001	LEM 1	Area 12	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
41450	P	2001	LEM 1	Area 12	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
41451	P	2001	LEM 1	Area 12	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
41479	MTT V (prox.)	2001	LEM 1	Area 4, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
41498	PAT	2001	LEM 1	Area 4, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42251	PHX (dist. frag.)	2002	LEM 1	Area 4, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42254	RAD (dist.)	2002	LEM 1	Area 4, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42289	PHX	2002	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42298	PHX (dist. frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42318	MTP (prox.)	2002	LEM 1	Area 6	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42340	PHX	2002	LEM 1	Area 7	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42369	PHX	2002	LEM 1	Area 10	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
42390	PHX	2002	LEM 1	sieving area 1	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44786	PAT	2003	LEM 1	sieving area 1	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44789	PAT	2003	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44795	TAR	2003	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44826	IPX	2003	LEM 1	Area 10	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44827	IPX	2003	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	
44862	IPX (frag.)	2002	LEM 1	Area 5, claystones	*	Mammalia	Rodentia	Muridae	Murinae	<i>Acomys</i> (cf.)	

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
44913	RAD (prox.)	2003	LEM 1	sieving area 1		Mammalia					
44914	PPX	2003	LEM 1	sieving area 1		Mammalia					
44916	CAL	2003	LEM 1	sieving area 1		Mammalia					
44917	MAN (edent. frag.)	2003	LEM 1	sieving area 1		Mammalia					
45818	PPX	2004	LEM 1	Area 5, mudstones 3 m above speckled tuff	*	Mammalia					
45927	VER	2004	LEM 1	Area 7	*	Mammalia					
45943	R. MAN (edent. frag.)	2004	LEM 1	sieving area 2		Mammalia					
45950	ULN (prox.)	2004	LEM 1	sieving, sands Area 10		Mammalia					
45952	RAD (prox.)	2004	LEM 1	sieving, sands Area 10		Mammalia					
42314	Spine	2002	LEM 1	Area 7	*	Pisces					
36889	Carapace (frag.)	1995	LEM 1	na		Reptilia	Chelonia				
36890	Tooth	1995	LEM 1	na		Reptilia	Crocodylia				
36891	Tooth	1995	LEM 1	na		Reptilia	Crocodylia				
36947	PHX	1995	LEM 1	na		Reptilia	Crocodylia				
38313	VER	1999	LEM 1	na		Reptilia	Crocodylia				
40892	VER (n=7)	2000	LEM 1	Area 4/5, claystones	*	Reptilia	Serpentes				
40897	VER	2000	LEM 1	Area 7	*	Reptilia	Serpentes	(Coluboiden)			
41105	MAN (frag.)	2001	LEM 1	Area 7	*	Reptilia					
41113	VER	2001	LEM 1	Area 7	*	Reptilia					
41191	Tooth	1999	LEM 1	na		Reptilia					
41226	VER	2001	LEM 1	Area 13, claystones	*	Reptilia	Crocodylia		Pythoninae (cf.)		
41229	VER	2001	LEM 1	Area 4, claystones	*	Reptilia	Serpentes				
41251	MAN (frag.)	2001	LEM 1	Area 4, claystones	*	Reptilia	Serpentes				
41329	VER	2001	LEM 1	Area 4, claystones	*	Reptilia	Serpentes				
41363	VER cervical	1999	LEM 1	Area 6	*	Reptilia	Serpentes		Pythoninae (cf.)		
41399	Carapace (frag.)	1999	LEM 1	na		Reptilia	Serpentes		Pythoninae		
41400	Carapace (frag.)	1999	LEM 1	na		Reptilia	Chelonia				
41415	VER (frag.)	1999	LEM 1	na		Reptilia	Chelonia				
41440	VER	2001	LEM 1	Area 12		Reptilia	Serpentes		Pythoninae		
41484	Tooth	2001	LEM 1	S side of main gully, edge of stream channel W of main locality		Reptilia	Serpentes		Pythoninae		
42252	PHX	2002	LEM 1	Area 4, claystones	*	Reptilia					
42270	TPX	2002	LEM 1	Area 5, claystones	*	Reptilia					
42285	PHX	2002	LEM 1	Area 5, claystones	*	Reptilia					
44829	VER	2003	LEM 1	Area 5, claystones	*	Reptilia	Crocodylia				
44833	jaw frag w/2 teeth	2003	LEM 1	Area 7	*	Reptilia	Serpentes		Pythoninae		
44838	postcranial element	2003	LEM 1	Area 7	*	Reptilia	Serpentes		Pythoninae		
45765	VER	2004	LEM 1	Area 4, 1/4 m down slope, mudstone/clay	*	Reptilia	Serpentes				
45775	CRA	2004	LEM 1	Area 7, just below microbreccia	*	Reptilia					
45800	FEM (prox.)	2004	LEM 1	Area 11, west side of hill, 10 m > yellow silts, found near top of geol trench in mudstones	*	Reptilia					
45804	VER	2004	LEM 1	Area 7, speckled tuff	*	Reptilia					
45928	VER	2004	LEM 1	Area 7	*	Reptilia					
45940	VER	2004	LEM 1	sieving area 2		Reptilia					
45955	VER	2004	LEM 1	sieving, sands Area 10		Reptilia					
45956	VER	2004	LEM 1	sieving, sands Area 10		Reptilia					
45957	VER	2004	LEM 1	sieving, sands Area 10		Reptilia					
41252	IPX	2001	LEM 1	Area 4, claystones	*	Reptilia					(Vertebrate)

Appendix 1. Continued.

Sp no.	Skeletal element and site	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
41447	indet	2001	LEM 1	Area 12		Vertebrate					
41468	PHX	2001	LEM 1	Area 5, claystones	*	Vertebrate					
41469	indet	2001	LEM 1	Area 6	*	Vertebrate					
41473	CAR	2001	LEM 1	Area 6	*	Vertebrate					
41474	CAR	2001	LEM 1	Area 6	*	Vertebrate					
41475	MTP (dist.)	2001	LEM 1	Area 6	*	Vertebrate					
41477	PHX	2001	LEM 1	Area 6	*	Vertebrate					
41480	TIB (prox.)	2001	LEM 1	Area 4, claystones	*	Vertebrate					
41481	TAR	2001	LEM 1	Area 4, claystones	*	Vertebrate					
41482	ULN (prox.)	2001	LEM 1	Area 4, claystones	*	Vertebrate					
41483	PHX	2001	LEM 1	Area 4, claystones	*	Vertebrate					
44742	TPX	2003	ENE 1	brown sediments		Mammalia	Artiodactyla	Bovidae			
44743	Ms	2003	ENE 1	top of sand lens between pink and brown sediments		Mammalia	Artiodactyla	Bovidae			
44744	L.p3	2003	ENE 1	brown sediments		Mammalia	Primate	Cercopithecidae	Colobinae		
44745	M	2003	ENE 1	top of sands just below brown sediments		Mammalia	Artiodactyla	Bovidae			
44746	C (frag.)	2003	ENE 1	sand lens at base of brown sediments		Mammalia	Carnivora	Bovidae	Aepyrotini		
41455	R.+L.MAN (frag.) w/ m1-2, m3 erupting	2001	ENK 1	brown mudstone below sandstone		Mammalia	Artiodactyla	Bovidae			
41456	R. MAN (frag.) w/m3	2001	ENK 1	brown mudstone below sandstone		Mammalia	Artiodactyla	Bovidae			
41457	R.TIB + CAL + AST + 2 MTTs + PHXs + L.CUB + MTT (frag.)	2001	ENK 1	brown mudstone below sandstone		Mammalia	Lagomorpha	Leporidae			
41458	L.HOR + VER (frags.)	2001	ENK 1	base of the gray sands		Mammalia	Artiodactyla	Bovidae		<i>Aepyceros</i>	<i>premelampus</i> (aff.)
41459	L.M3	2001	ENK 1	gully bottom below sands and mudstones		Mammalia	Artiodactyla	Bovidae	Tragelaphini (cf.)		
42243	L.dm2	2002	ENK 1	stream channel at level of sands		Mammalia	Primate	Cercopithecidae	Colobinae		
42244	L.MTT	2002	ENK 1	sands		Mammalia	Artiodactyla	Hippopotamidae			
42245	R.MAN (frag.) w/m1+2	2002	ENK 1	red silts above tuff (ignimbrite)		Mammalia	Artiodactyla	Bovidae			
42246	HOR (frag.)	2002	ENK 1	red silts above tuff (ignimbrite)		Mammalia	Artiodactyla	Bovidae			
44748	AST	2003	ENK 1	top of sand conglomerate		Mammalia	Artiodactyla	Bovidae			
44749	IPX	2003	ENK 1	gully bottom at level of brown mudstones		Mammalia	Artiodactyla	Bovidae			
44750	L.m1or2	2003	ENK 1	brown mudstones		Mammalia	Primate	Cercopithecidae	Colobinae		
44751	TIB (prox.)	2003	ENK 1	gully bottom at level of brown mudstones		Mammalia					
44752	TIB (dist.)	2003	ENK 1	gully bottom at level of brown mudstones		Mammalia	Artiodactyla	Bovidae			
44753	L.p3 + m (frag.)	2003	ENK 1	brown mudstones near 44750		Mammalia	Primate	Cercopithecidae	Colobinae		
44754	TPX	2003	ENK 1	brown mudstones		Mammalia	Proboscidae				
44755	MTC (3/4 frag.)	2003	ENK 1	brown mudstones		Mammalia	Carnivora	Felidae			
44756	TIB (dist.)	2003	ENK 1	brown mudstones		Mammalia	Primate	Cercopithecidae			
44757	R.MAN (frag.) w/m1-3	2003	ENK 1	brown mudstones		Mammalia	Artiodactyla	Bovidae			
44758	R.RAD + ULN	2003	ENK 1	brown mudstones		Mammalia	Primate	Cercopithecidae			
44759	IPX	2003	ENK 1	brown mudstones		Mammalia	Artiodactyla	Bovidae			
45789	L.MTT III (prox)	2004	ENK 1	sands interbedded w/mudstones, near top of mudstone horizon		Mammalia	Carnivora	Felidae	Machairodontinae	<i>Lokotunjilurus</i>	<i>emageritas</i> (aff.)
45827	TIB (prox.)	2004	ENK 1	sands interbedded w/mudstones, near top of mudstone horizon		Mammalia	Carnivora				

Appendix 1. Continued.

Sp no.	Skeletal element and side	Year	Locality	Provenience	n	Class	Order	Family	Subfamily or tribe	Genus	Species
45892	HOR	2004	ENK 1	sands at base of EK, > gray mudstones		Mammalia	Artiodactyla	Bovidae			
45893	L.M	2004	ENK 1	brown mudstones, gulley bottom near 44758		Mammalia	Artiodactyla	Bovidae	Bovini		
45899	PPX	2004	ENK 1	sands > gray mudstones		Mammalia	Artiodactyla	Bovidae			
45894	L.FEM (prox.)	2004	ENK 2	calicified sandstone		Mammalia	Artiodactyla	Suidae (cf.)			
45898	FEM (dist.)	2004	ENK 3	top of calcified sandstone		Mammalia	Carnivora (cf.)				
45895	CAL	2004	ENK 3	gravely gray sands		Mammalia	Carnivora (cf.)				
45896	R. FEM (prox.)	2004	ENK 3	gravely gray sands		Mammalia	Carnivora	Felidae			<i>emageritas</i> (aff.)
45897	HUM (dist.)	2004	ENK 3	gravely gray sands		Mammalia	Primate	Cercopithecidae			
44739	HOR	2003	KAP 1	gulley bottom		Mammalia	Artiodactyla	Bovidae			
42397	R.m3 + TIB (dist.)	2002	KAS 1	white carbonates		Mammalia	Primate	Cercopithecidae	Colobinae		
42398	MAN (edent. frag.)	2002	KAS 1	white carbonates		Mammalia	Artiodactyla	Bovidae			
42399	M3	2002	KAS 1	white carbonates		Mammalia	Artiodactyla	Bovidae			
42400	MAX (edent. frag.)	2002	KAS 1	white carbonates		Mammalia	Carnivora				
42396	R.m2 (frag.)	2002	LEM 2	yellow sands with basalt cobbles on top, above yellow silts		Mammalia	Proboscidea	Elephantidae			
36591	R.m3	1995	LEM 3	na		Mammalia	Primate	Cercopithecidae	Colobinae		
36592	L.P4	1995	LEM 3	na		Mammalia	Artiodactyla	Bovidae			
36593	L.dp4	1995	LEM 3	na		Mammalia	Primate	Cercopithecidae	Colobinae		
36594	R.M3	1995	LEM 3	na		Mammalia	Primate	Cercopithecidae	Colobinae		
44734	L.MAX (frag.)	2003	MPO 1	reddish sediments < welded tuff		Mammalia	Artiodactyla	Bovidae			
44735	R.m w/alveolar bone	2003	MPO 1	reddish sediments < welded tuff		Mammalia	Artiodactyla	Bovidae			
44736	HUM shaft (frag.)	2003	MPO 1	reddish sediments < welded tuff		Mammalia	Primate	Cercopithecidae			
44737	owl pellet	2003	MPO 1	reddish sediments < welded tuff		Mammalia	Rodentia				
44723	SKU + postcranial elements	2003	OLO 1	red sediments w/carb nod		Mammalia	Carnivora				
44724	L.MAN (frag.)	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44725	SKU + HOR	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44726	M	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44727	M (frag.)	2003	OLO 1	red sediments w/carb nod		Mammalia	Perrissodactyla	Equidae			
44728	SKU	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44729	ULN (prox.)	2003	OLO 1	red sediments w/carb nod		Mammalia	Primate	Cercopithecidae			
44730	MAX w/P4-M3	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44731	MAX w/2 ms	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44732	MAX w/2 ms	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44733	SKU w/HOR (big)	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44738	MTP	2003	OLO 1	red sediments w/carb nod		Mammalia	Artiodactyla	Bovidae			
44740	ULN	2003	SIL 1	pink/brown re-worked ash (sediments)		Mammalia	Artiodactyla	Bovidae			
44741	OCX	2003	SIL 1	pink/brown re-worked ash (sediments)		Mammalia	Artiodactyla	Bovidae			

All specimen numbers are preceded by KNM-NK. "Year" denotes year of collection. Locality abbreviations and proveniences are defined in the text. See Appendix 2 for skeletal element key. "n" = horizon at LEM 1 (* = mudstones/claystones, x = underlying sands), "carb nod" = carbonate nodules.

Appendix 2. Skeletal-element key.

Side is indicated by a preceding R. or L.	SCA	scapula
(frag.)/(frags.) = fragment/fragments	HUM	humerus
(edent. frag.) = edentulous fragment	RAD	radius
assoc. = associated	ULN	ulna
prox. = proximal	OCX	os coxae
dist. = distal	FEM	femur
PHX phalanx	FIB	fibula
PPX proximal phalanx	TIB	tibia
IPX intermediate phalanx	PAT	patella
TPX terminal phalanx	TAR	tarsal
MTT metatarsal (position indicated by roman numeral)	CAR	carpal
MTC metacarpal (position indicated by roman numeral)	AST	astragalus
MTP metapodial	TAL	talus
CRA cranium	CAL	calcaneus
OCC occipital	NAV	navicular
TEM temporal	UNC	unciform
ZYG zygomatic	LUN	lunar
HOR horn core	CUB	cuboid
MAN mandible	CUN	cuneiform
MAX maxilla	PIS	pisiform
I/i incisor (max/man), position indicated by number	MAG	magnum
C/c canine (max/man)	SPD	scaphoid
P/p premolar (max/man), position indicated by number	CMC	carpometacarpus
M/m molar (max/man), position indicated by number	TBT	tibiotarsus
d denotes a deciduous tooth	EXT	external cuneiform
VER vertebra	SES	sesamoid
