

**ATLAS OF MAMMAL DISTRIBUTION
THROUGH AFRICA FROM THE LGM
(~18 KA) TO MODERN TIMES**

THE ZOOARCHAEOLOGICAL RECORD

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CHAPTER 1 INTRODUCTION

This work provides the first overview of mammal species distributions in Africa since the Last Glacial Maximum (LGM, 18 ky) to modern time. It is derived from data published mainly in the zooarchaeological literature until 2009. During a post-doctoral project hosted in the zoological department of mammal collection at the Naturhistorisches Museum in Vienna (Austria), the occurrences of taxa in archaeological sites on the African continent were recorded in a database, integrating geographical and chronological information. This record offers the opportunity to produce a chronological atlas of mammalian distributions by presenting their occurrences on successive maps over the last 18 ky.

Similar works were conducted previously at a smaller scale, including the macromammals of the southern subcontinent (Plug and Badenhorst, 2001) and studies restricted to individual countries (eg. Gautier and Van Neer, 2005 for Ghana). The aim of the present project is to take all of the African mammalian fauna into account without taxonomic or geographic restrictions. Every effort has been made to record the fauna as accurately as possible, however there may be some omissions or inconsistencies due to a lack of data, missing publications, poorly referenced ages or faunal lists or incorrect ages attributed to excavation levels.

This work is useful for zooarchaeologists dealing with one particular species by providing a bibliographical work that documents its past locations. It must be noted that fauna are mainly documented through their presence at archaeological sites and are therefore tied to the presence of humans and their activities. This may only partially reproduce their true past distribution. However, the sites offer a good coverage throughout space and time and generally reflect the extent of mammalian distributions, although the limits of their distributions may be further refined.

The atlas will aid in the investigation of palaeoecological issues, such as the capacity of mammals to adapt to climatic change and respond to human disturbance in the recent past of Africa. Since the LGM, drastic climatic changes occurred on the African continent, with alternating periods of aridity (~18-10 ky and 5-0 ky) and humidity (~10-5 ky). Concomitantly, human economy and behaviour changed as populations migrated and adapted their dietary patterns, mainly with food production (agriculture and pastoralism), diet specialisation, social organisation, semi-nomadic or sedentary way of life. All together, climatic and anthropogenic impacts have an influence on the natural environment, and directly or indirectly on mammals (reduction of distribution area, of population size, of individual size, etc). Other questions than can be investigated through this atlas are: What was the mammal's former distribution? Did refuge areas exist and, if so, what were their geographical barriers and the potential migration routes of species between them? Did some species face extinction during the hyper-arid LGM? How rapidly did distribution areas decrease for each taxa? Finally, these data presented here can indicate which species suffered more from the recent climatic degradation, and thus which are potentially more endangered by climatic change today.

The database also provides information that is fundamental to a better understanding of what influenced the present-day distribution, dynamism and structure of mammalian communities in Africa. By incorporating a larger temporal scale to modern ecological studies, it may help control their conservation since desiccation and human disturbance in Africa is still a worrying question for their future.

CHAPTER 2 DATA AND METHODS

Database structure and working tools

The database counts more than 850 sites and dated site levels, corresponding to about 9 000 occurrences of mammals. The structure of the database was built using the software Microsoft ACCESS. It includes the following zooarchaeological and chronological data:

- Geography: country, coordinates, detailed location and publication reference.
- Cultural context: general attribution to Palaeolithic/Epipalaeolithic/Late Stone Age/ Iron Age, or to the pastoral phases identified for each region, and then precise information about local culture/facies/traditions defined usually by ceramic and/or lithic industries.
- Chronological context, which is often problematic when radiometric ages are rare or absent, or when they date not directly human occupation but environmental phases (molluscs,...).
- Occurrences of taxa integrated through published faunal lists, with or without quantification (Number of Remains, Minimum Number of Individuals, are present in the database, but not provided here).
- Mammal biometrics, through published dimensions taken on fossil bones, facilitating the study of morphological and body size changes during the LGM.
- Historical maps are obtained by exporting the data in GIS software. The DIVA-GIS software, available freely online, plots together the spatial and temporal data. The maps are then composited with Adobe Illustrator and Photoshop softwares.

Taxonomy

Taxa mentioned in the zooarchaeological literature follow different classifications depending on the authors and the evolution of systematics over time. To homogenise the dataset, only one classification system has been used : Wilson and Reeder (1992), in accordance with that used in the NHM Wien mammals collections and in many institutions. An updated publication is available in Wilson and Reeder (2005), but the former is more consistent with the one found in the majority of the publications. It considers, for example, that antelopes are classified into subfamilies (e.g. Cephalophinae, Tragelaphinae), while others place this level of taxonomic differentiation below, in the level of the tribe (e.g. Cephalophini, Tragelaphini). This classification is available online at www.bucknell.edu/MSW3/.

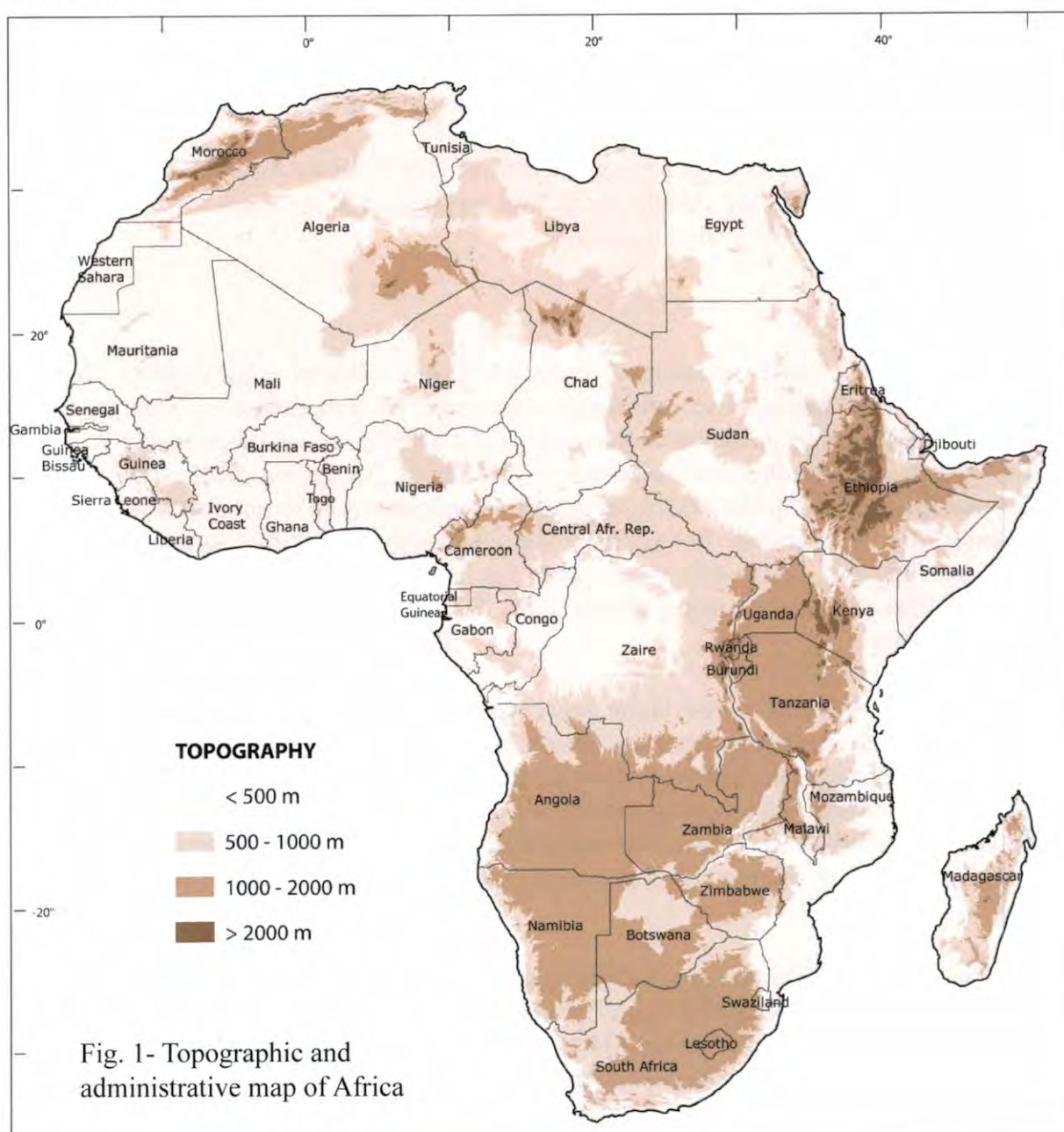
All the mammals are not well known in the zooarchaeological record. There are few natural sites; most of the recorded sites result from the accumulation of human deposition of food remains. Therefore fauna that mirror the human diet are documented: mainly herbivores, but a few rodents, while carnivores are rare. Domesticated species are included as well as wild. Compared with the larger bodied indigenous African fauna, our present knowledge of past micromammals - Afrosoricids, Macroscelids, Insectivora and bats - are very weak. Even among the rodents the data are not very consistent.

Identifications and quantifications were made by many authors whose technical skills and involvement vary widely. Some taxonomic attributions may seem questionable to specialists. Identifications to species level may have been based on poorly diagnostic skeletal elements and indirect attributions can be based on the current distribution of the same species, on environmental conditions, etc.

However, when compiling data for this atlas, the published identifications are provided although this introduces a “subjective filter”. Each user of this database is therefore responsible for the sorting and selection of the data for his or her own use. When an identification comes with cf., af. or ? to show uncertainty, this is added in a note. Abundance data are not plotted on maps since they are more likely to further introduce a selective filter than to illustrate real ecological abundance.

Geography

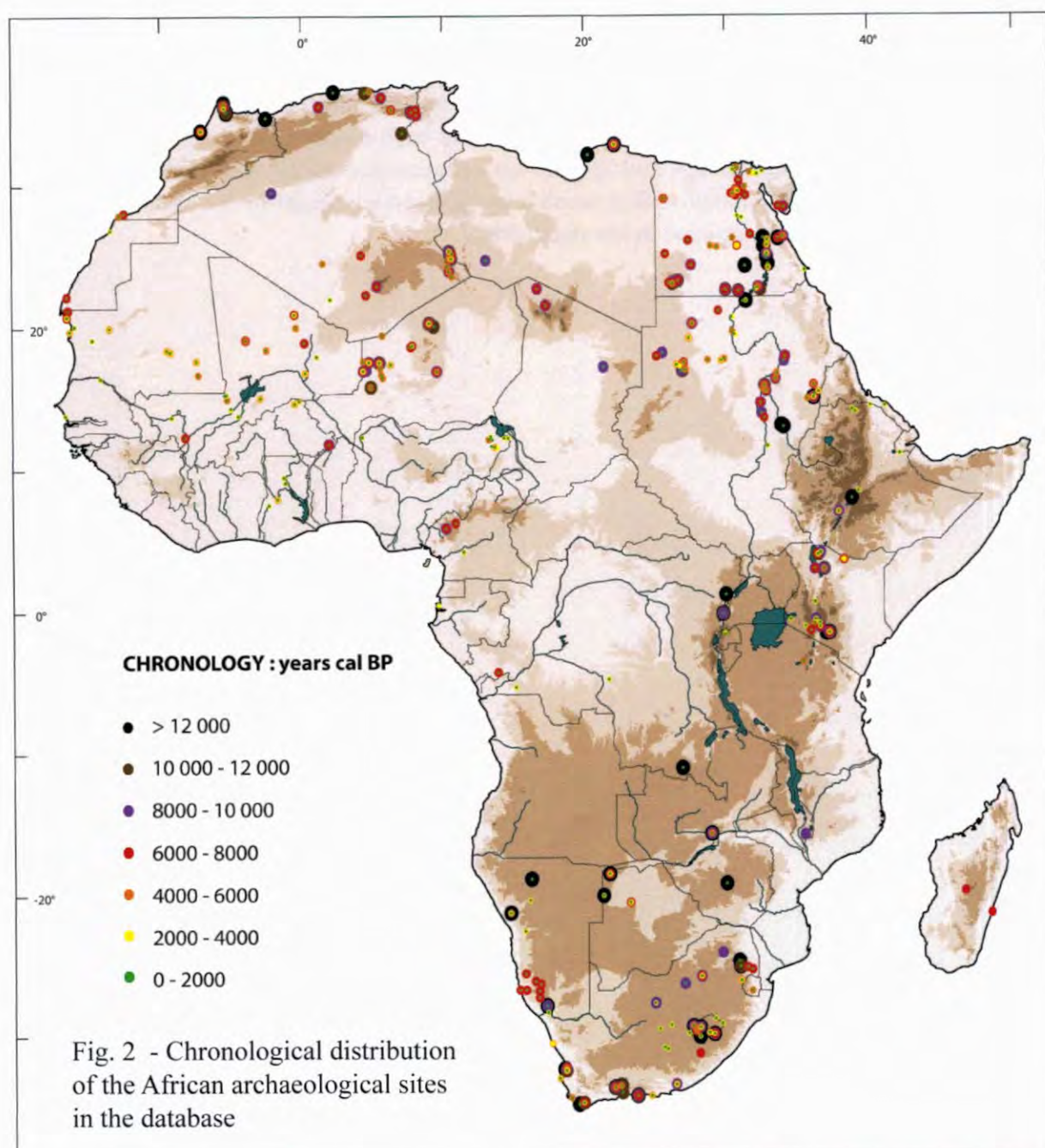
The DIVA-GIS software integrates a number of spatial data, including a topographic map covering the continent, which is found in the files of “SRTM30 dataset built on CGIAR-SRTM data aggregated to 30 seconds”. A coarse topographic cutting (0/500/1000/5000/4000 m) was chosen to locate the main reliefs (Fig. 1). The main river systems of Africa are also indicated. The spatial distribution of sites is heterogeneous throughout the continent, which relates to research efforts interests, field research difficulties, accessibility, or political conflicts. The dataset shows how some regions are favoured by researchers, such as South Africa where a rich record of Iron Age sites is known (Plug and Badenhorst, 2001) and the Nile Valley in Egypt and Sudan, while other countries are almost devoid of data.



Chronology

The problem of resolving different site ages in the literature has been addressed by providing all the radiometric ages available, even if there was only one for a site. Here again, it will be up to each user to select or reject this data for his or her own use. The time periods with their associated cultural facies include Late Paleolithic (eg. Aterian), Epipaleolithic (eg. Capsian), Mesolithic (eg. Khartoum), Holocene communities (eg: Later Stone Age, Neolithic, Elmenteitan, Pastoral Phases), Iron Age, and historical times up until the 20th century.

All radiocarbon ages were calibrated using the online software Oxcal 4.1 (Bronk Ramsey, 2001), with the IntCal04 calibrating curve for Northern Hemisphere (Reimer et al., 2004) and SHCal04 calibrating curve for the Southern Hemisphere until ~11 ka (McCormac et al., 2004).



Chronology is another heterogeneity in the database, as seen on figure 2. There are few sites prior to 10 ka. This is mainly due to the climato-historical fact that human occupation was scarce during the hyper-arid period of LGM and nomadic people left few traces of their presence during this time. From 10 ky onward, the sites become more frequent and the spatial distribution illustrates the dispersion of people through time across the continent, with sub-Saharan Africa mainly colonised after 3 ky. Therefore, the time period between ~20 and 10 ka is grouped as one single interval, and then different colors are used to illustrate successive 2 ka intervals after that. The size of the points does not signify an abundance of sites or species, but it is a way to indicate “stacked” occurrences, when a species is present in the same place at different times. Each site is attributed to a time interval using the calibrated age. To simplify, the midpoint of the calibration interval (95% confidence) is calculated, and this midpoint value is used to allocate the adequate chronological color.

Atlas manual

Figures 1 and 2 present the topography, countries, and the chronological dataset used in this work. Chapter 3 provides the site data including the geography and archaeological context. Each site has a reference number, following the alphabetic order within each country. The radiocarbon ages are listed in Chapter 4. Individual maps and species occurrences are given in Chapter 5. All of the bibliographical references are listed with a number by alphabetical order at the end of the book in Chapter 6, and these numbers are used in the data tables.

CHAPTER 3 SITE DATA :

GEOGRAPHY, ARCHAEOLOGICAL CONTEXT

Abbreviations found in the table are the following:

Abbrev.	Meaning
*	Approximative coordinates
E	Epipaleolithic
EIA	Early Iron Age
Hi	Historic
Ho	Holocene
IA	Iron Age
LIA	Late Iron Age
LP	Late Paleolithic
LPI	Late Pleistocene
LSA	Late Stone Age
MIA	Middle Iron Age
MSA	Middle Stone Age
N	Neolithic
P	Paleolithic
PI	Pleistocene
AT	Atérien
Ib	Iberomaurusian
pcW	Post-Classic Wilton
Iwc	Interior Wilton Classic
PN	Pastoral Neolithic
SPN	Savannah-Oriented Pastoral Neolithic

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N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
Algeria					
1 A-88-15	89	24	30	1 E LSA	290
2 A-88-28	90	22	0	2 E LSA	290
3 A-88-35	88	33	45	7 E LSA	290
4 Ain Misteheyia	384	35	11,65	7 E LSA	150, 186, 187
5 Amekni	286	22	53	5 E LSA	24, 35, 214
6 Columnata	370	35	29	1 E LSA	44
7 Damous el Ahmar	497	35	21	8 E LSA	320
8 Djurdjura	701	36	28	4 E LSA	135
9 Dra-Mia-el-Ma-el-Abiod	897	34	55	8 E LSA	36
10 Grotte Capeletti	498	35	20	6 E LSA	320
11 Gueldaman Akbou	369	36	40	4 E N	44
12 In Guezzam South	368	19	29	5 E *	6
13 Kef Zoura D	386	35	8,56	7 E LSA	186, 187
14 Mankhor	910	23	30	10 E LSA	45, 281
15 Medjez II	377	36	8	5 E LSA	25
16 Meniet	287	25,1	1	4,18 E	35, 214, 327
17 Oued Adjemmet	470	22	20	4 E LSA	214
18 Oued Telidjene A	385	35	12	7 E *	186, 187
19 Takouatz Guerrissane	702	36	32	4 E LSA	135
20 Tamar Hat	757	36	40	2 E LSA	185, 210
21 Ti-n-Hanakaten	371	23	52	10 E LSA	44
22 Zmeilet el-Barka	350	29	25	2 W LSA	3
Angola					
23 Benfica	119	8	57	13 E LSA	291
24 Kamabanga	117	8	51	13 E *	291
25 Kitala	118	8	51	13 E *	291
Botswana					
26 Bosutwe-Mapungubwe	357	21	57,15	26 E EIA-LIA	241
27 Bosutwe-Taukome	355	21	57,15	26 E EIA	241
28 Bosutwe-Toutswe	356	21	57,15	26 E EIA	241
29 Bosutwe-Zimbabwe	358	21	57,15	26 E LIA	241
30 Broadhurst	807	24	32	25 E EIA	78

CHAPTER 3 - SITE DATA : GEOGRAPHY, ARCHAEOLOGICAL CONTEXT

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
31 Commando Kop	526	22 8 S	29 10 E	EIA	336
32 Divuyu	686	18 55 S	21 44 E	EIA	79
33 Drotsky's Cave-H	767	19 55 S	21 5 E	Ho	260
34 Drotsky's Cave-LP	768	19 55 S	21 5 E	LPI	260
35 Drotsky's Cave-P	769	19 55 S	21 5 E	PI	260
36 Matanga	858	20 52,16 S	27 37,33 E	IA	319
37 Matlapaneng	688	19 53 S	23 23 E	EIA	79
38 Nqoma	687	18 26 S	21 20 E	EIA	79
39 Qogana	689	18 55 S	22 E	EIA	79
40 Taukome	645	21 53 S	26 56 E	EIA	254
41 Toteng1-SU1	770	20 25 S	22 57 E	LSA	258
42 Toteng1-SU2	771	20 25 S	22 57 E	LSA	258
43 Toteng1-SU3	772	20 25 S	22 57 E	LSA	258
44 Toteng1-SU4	773	20 25 S	22 57 E	LSA	258
45 Toteng3-SU3	776	20 25 S	22 57 E	LSA	258
46 Toteng3-SU4	777	20 25 S	22 57 E	LSA	258
47 White Paintings RS-1	490	18 25 S	30 E	Hi?	259
48 White Paintings RS-2ab	491	18 25 S	30 E	LSA-EIA	259
49 White Paintings RS-2b-3ab	492	18 25 S	30 E	LSA	259
Burkina Faso					
50 Cocorba-IA	304	14 42 N	29 0 W	IA	183
51 Cocorba-LSA	303	14 42 N	29 0 W	late LSA	183
52 Kissi 22	311	14 39 N	9 0 W	MIA	183
53 Kissi 40	312	14 38 N	8 0 W	LIA	183
54 Oursi hu-beero	310	14 42 N	28 0 W	IA	183
55 Oursi Village-EIA	307	14 43 N	29 0 W	EIA	183
56 Oursi Village-LIA	309	14 42 N	27 0 W	LIA	183
57 Oursi Village-MIA	308	14 42 N	27 0 W	MIA	183
58 Oursi-IA	306	14 43 N	29 0 W	EIA	183
59 Oursi-LSA	305	14 43 N	29 0 W	LSA	183
60 Pèntènga 89/1-spit 13	21	11 50 N	1 50 E	LSA	92
61 Pèntènga 89/1-splits 15-21	20	11 50 N	1 50 E	LSA	92
62 Pèntènga 89/1-splits 4-10	22	11 50 N	1 50 E	IA	92

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation	
63 Saouga 94/120	313	14	22	N 0	11 W	Hi	183
64 Saouga 95/7	314	14	22	N 0	10 W	late LSA/IA	183
65 Tin Akof	300	14	55	N 0	17 W	late LSA	183
Burundi							
66 Ruzizi Plain	116	3	15	S 29	20 E *		291
Cameroon							
67 Abeke	32	6	11	N 10	42 E	LSA	74
68 Aissa Dugjé	678	11	5	N 24	12 E *		197
69 Aissa Dugjé-b	692	11	5	N 24	12 E *		28
70 Blé A	346	11	58,75	N 14	59,63 E	IA	183
71 Blé B	347	11	58,75	N 14	59,63 E	IA	183
72 Blé C	348	11	58,75	N 14	59,63 E	IA	183
73 Blé E	349	11	58,75	N 14	59,63 E	IA	183
74 Djaba Hosséré	911	8	19	N 13	57,5 E	IA	180
75 Nkang	92	4	16	N 11	19 E	IA	208, 296
76 Shum Laka II c	30	5	51	N 10	4 E	LSA	74
77 Shum Laka II d	31	5	51	N 10	4 E	LSA	74
78 Shum Laka IIa+b	29	5	51	N 10	4 E	LSA	74
Central African Republic							
79 Mondongué	120	4	15	N 18	30 E *		296
80 Lingbangbo	121	4	15	N 18	30 E *		296
Chad							
81 Delebo	887	17	12	N 21	15 E		108
82 Enneri Bardagué	883	22	36	N 16	37 E	LSA	108
83 Gabrong-b	880	21	30	N 17	8 E	LSA	108
84 Gabrong-d	879	21	30	N 17	8 E	LSA	108
85 Koyom	33	9	48	N 15	52 E	IA	256, 257
Congo							
86 Kawezi	122	3	15	S 29	20 E *	IA	296
87 Ntadi Yom ba-level B	35	4	15	S 13	46 E	LSA	308, 309
88 Ntadi Yomba-level A	34	4	15	S 13	46 E	LSA	308, 309
89 Tongo	123	1	10	S 29	0 E	EIA	296

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
Djibouti					
90 Asa Koma	205	11 4 N	5 42 E	LSA	131, 132
Egypt					
91 Abu Ballas - 83/39	38	24 14 N	25 27 E	LSA	314
92 Abu Ballas - 85/50-1	40	24 14 N	25 27 E	LSA	314
93 Abu Ballas - 85/51-3	41	24 14 N	25 27 E	LSA	314
94 Abu Ballas - 85/56	39	24 14 N	25 27 E	LSA	314
95 Abu Sha'ar-4C	74	27 22 N	41 33 E	IA	313
96 Abu Sha'ar-5C	75	27 22 N	41 33 E	IA	313
97 Abusir	664	29 54 N	12 31 E	LSA	23
98 Adaima-burials	26	25 10 N	40 32 E	LSA	301
99 Adaima-habitat	65	25 10 N	40 32 E		212
100 Adaima-habitat	25	25 10 N	40 32 E	LSA	301
101 Ain Tirghi cemetery	395	29 0 N	30 25 E	LSA	58
102 Al-Ma'abda	182	27 20 N	1 31 E	Roman	235
103 Al-Ma'abda	288	27 20 N	1 31 E	Roman	235
104 Baboon Catacomb	816	29 51 N	14 31 E		126, 127
105 Balat-Mastaba V	677	25 34,9 N	14,78 29 E	LSA	54
106 Berenike 95/97- Early Roman	67	23 55 N	27 35 E	IA	310
107 Berenike 95/97- Late Roman	68	23 55 N	27 35 E	IA	310
108 Berenike 95/97-Ptolemaic	69	23 55 N	27 35 E	IA	305
109 Bir Kiseiba-EN	135	22 34 N	53 29 E	Early Neolithic	103
110 Bir Kiseiba-LN	137	22 34 N	53 29 E	Late Neolithic	103, 353
111 Bir Kiseiba-MN	136	22 34 N	53 29 E	Middle Neolithic	103, 353
112 Buto/1-3	293	31 11 N	45 30 E	Nagada Iib	344
113 Buto-6	294	31 11 N	45 30 E	Old Kingdom	344
114 Buto-9-12	295	31 11 N	45 30 E	Ptolemaic to Graeco-Roman	344
115 Catfish Cave-L1	489	22 43 N	7 32 E	Late Ho	355
116 Catfish Cave-L2	488	22 43 N	7 32 E	Ho	355
117 Catfish Cave-L3	487	22 43 N	7 32 E	Aceramic Ho	355
118 Catfish Cave-L4	486	22 43 N	7 32 E	Early Holocene	355
119 Catfish Cave-L5	485	22 43 N	7 32 E	Early Holocene	355
120 Dahschûr	699	31 2 N	28 30 E	12e Dynasty	19

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation				
121 Dakhleh Oasis, SMU	394	29	0	N	25	30	E	LSA	Sheikh Muftah Unit	59
122 Dakhleh Oasis, Ba	396	29	0	N	25	30	E	LSA	Bashendi	59
123 Dakhleh Oasis, Roman	398	29	0	N	25	30	E	IA	Roman	59
124 Dakhleh Oasis,OK	397	29	0	N	25	30	E	LSA	Old Kingdom	59
125 Djara 90/1	694	27	20	N	30		E *			118
126 Eastpan 95-1/1	695	25		N	28	30	E *			118
127 Eastpan 95-2	696	25		N	28	30	E *			118
128 Ein el Gazzareen	871	25	39,15	N	28	52,03	E	LSA	Old Kingdom	60
129 El Abadiya 2 North sector	14	25	51	N	32	42	E	LSA	Naqada I	323
130 El Abadiya 2 South sector	13	25	51	N	32	42	E	LSA	Naqada I	323
131 El Abadyia-A-B	64	25	51	N	32	42	E *	MSA	Late Paleolithic	322
132 El Abadyia-C1-C2	63	25	51	N	32	42	E *	MSA	Shuwikhatian	322
133 El Omari	499	29	15	N	31	19	E	LSA	Late Neolithic, Predynastic	320
134 El Salamuni	693	26	27	N	31	40	E *			324
135 Elephantine-Necropolis	494	24	5	N	32	53	E	LSA	Late and Middle Kindgom	19, 341, 342
136 Elephantine-NW Chnum temple	666	24	5	N	32	53	E	ISA	25-26th dynasty	22
137 Elephantine-Satet temple	495	24	5	N	32	53	E	LSA	4th-11th Dynasties	19, 341, 342
138 Elkab-Epipaleo	130	25	7	N	32	48	E	MSA	E, Elkabien	100
139 Elkab-Necropolis	129	25	7	N	32	48	E		New Kingdom	111
140 El-Tell el Iswid-Early Dynastic	390	30	50	N	31	41	E		Early dynastic - Naqada III	287
141 El-Tell el Iswid-Predynastic	389	30	50	N	31	41	E		Late predynastic period	287
142 El-Tell el-Iswid A	670	30	50	N	31	42	E *	LSA	Late predynastic	287
143 El-Tell el-Iswid B	671	30	50	N	31	42	E *	LSA	Naqada III-Early Dynastic	287
144 El-Zarkeh	73	26	0	N	33	47	E	IA	Early Roman	294
145 Fayoum G1-H1	145	29	20	N	30	30	E	LP		99
146 Fayoum G3-H2	144	29	20	N	30	30	E	LSA	N	99
147 Fayoum G5-G4	143	29	20	N	30	30	E	LSA	Predynastic and old Kingdom	99
148 Fayoum Site 1	424	29	35	N	30	40	E	LSA	Fayoum A - Neolithic	31
149 Fayoum Site 2	425	29	35	N	30	47	E	LP	Fayoum B	31
150 Fayoum Site 3	426	29	34	N	30	53	E	LSA	Fayoum A - Neolithic	31
151 Fayoum Site 4	427	29	34	N	30	38	E	LSA	Fayoum A - Neolithic	31
152 Fayoum Site 5	428	29	23	N	30	23,5	E	LSA	Fayoum A - Neolithic	31
153 Gifl Kebir	42	23	4	N	25	52	E *	LSA		314

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation				
154 Hierakonpolis HK6 - Naqada IC-IIA	16	25	2	N	32	49	E	LSA	Predynastic, Early Dynastic, Naqada IC-IIA	311
155 Hierakonpolis HK6 - Naqada IIA-B	17	25	2	N	32	49	E	LSA	Predynastic, Early Dynastic, Naqada IIA-B	311
156 Hierakonpolis HK6 - Naqada III	18	25	2	N	32	49	E	LSA	Predynastic, Early Dynastic, Naqada IIIc	311
157 Hierakonpolis HK6 - Naqada I-II	15	25	2	N	32	49	E	LSA	Predynastic, Early Dynastic, Naqada I-II	311
158 Idfu, Isna	383	24	59	N	32	52	E	MSA	LP	129
159 Karnak North	496	25	44	N	32	42	E	LSA	New Kingdom	341, 342
160 Kharga depression-graeco-roman	204	25	39	N	30	38	E		Graeco roman	101
161 Kharga depression-Neolithic	203	25	39	N	30	38	E	LSA	N	101
162 Kom Ombo	183	24	28	N	32	57	E			61, 229
163 Lobo - 81/55	37	26	4	N	27	17	E	* LSA		314
164 Maadi	55	29	49	N	31	19	E	* LSA	Late Predynastic	136, 347
165 Mahgar Dendera 2	19	26	3	N	32	48	E	LSA	End of Badarian	139, 299
166 Makhadma 2	61	26	12	N	32	38	E	MSA	LP	312, 321
167 Makhadma 4	62	26	12	N	32	38	E	MSA	LP	312, 321
168 Merimde Benisâlame	291	30	19	N	30	51	E	LSA	N	342, 347
169 Minshat Abu Omar	665	30	50	N	32	6	E	* LSA		18, 342
170 Mons Claudianus	72	26	51	N	33	32	E	* IA	Early Roman	294
171 Napta Playa 77-1/4/5/6	201	22	30	N	30	45	E	LSA	N, Early Khartoum	101
172 Napta Playa 77-8	202	22	30	N	30	45	E	LSA	Middle to Late Neolithic	101
173 Napta Playa E77-3/7	200	22	30	N	30	45	E	LSA	LP	101
174 Qantir	700	30	48	N	31	50	E	LSA	19/20 Dynasties	19, 342
175 Qasr el-Sagha-1	296	29	34	N	30	38	E	LSA	Early N	342
176 Qasr el-Sagha-2	297	29	34	N	30	38	E	LSA	Middle N	342, 343
177 Qasr el-Sagha-3	298	29	34	N	30	38	E	IA	12th Dynasty, about 1990-1800 BC	342
178 Qasr Ibrim	222	22	37	N	31	59	E	LSA	Napatan Period	
179 Quseir al-Qadim	71	26	6	N	34	17	E	IA	Early Roman	294, 345
180 Selima Sandsheet - 85/78	43	21	5	N	29	20	E	LSA		314
181 Selima Sandsheet - 85/79	44	21	5	N	29	20	E	LSA		314
182 Shenshef	124	23	43	N	35	22	E	*	Early to Late Roman	306
183 Shuwikhat 1	66	26	11	N	32	36	E	MSA	Shuwikhatian	297
185 Sodmein Cave older backfill	56	26	14	N	33	38	E	MSA	QSR-44	325
186 Sodmein Cave younger backfill	57	26	14	N	33	38	E	LSA	QSR-44	325
187 Tell el-Dab'a	289	30	44	N	32	1	E	LSA	Early 18th Dynasty	349

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
188 Tell el-Dab'a - b	667	30 44	32 N	1 E	LSA	17, 342
189 Tell Heboua	256	30 57	32 N	27 E		50
190 Tell Mashkuta	668	30 45	32 N	20 E *		342
191 Toukh	367	25 56	32 N	45 E	N	93
192 Tree Shelter-1	862	26 16,332	33 N	57,379 E	IA	202
193 Tree Shelter-3	24	26 16,332	33 N	57,379 E	LSA	326
194 Tree Shelter-4	863	26 16,332	33 N	57,379 E	LSA	202
195 Tree Shelter-5	23	26 16,332	33 N	57,379 E	LSA	326
196 Tuna el-Gebel	292	27 46	30 N	44 E	Saitic-Ptolemaic	20, 346, 348
197 Umm el-Qaab, Friedhof U	290	26 11	30 N	25 E	Naqada Ia/IIa	81
198 Wadi el Akhdar	199	23 1	26 N	6 E		227
199 Wadi el Bakht	198	23 12	26 N	28 E		227
200 Wadi Kalalat	125	23 55	35 N	27 E *	Early Roman	306
201 Wadi Kubbaniya - E-78-3	60	24 15	31 N	19 E	MSA	110, 114
202 Wadi Kubbaniya - E-78-4	58	24 15	31 N	19 E	MSA	110, 114
203 Wadi Kubbaniya - E-81-1	59	24 15	31 N	19 E	MSA	110, 114
204 Western Thebes- Tomb 10	663	16 30	14 N	13 E	Late Ptolemaic-Roman	21
205 Willmann's Camp - 81/61	36	25 5	25 N	37 E *	LSA	314
206 Workmen Village	387	27 40	31 N	0 E	LSA	188
Ethiopia						
207 Axum-D	211	14 8	38 N	43 E	Pre-Later Axumite	34
208 Axum-K	212	14 8	38 N	43 E	Post-Axumite	34
209 Gademotta	142	7 55	38 N	42 E *	MSA	98
210 Gobedra	889	14 0	39 N	0 E *	LSA	207
211 Laga Oda-a	892	14 30	41 N	0 E *	LSA	207
212 Laga Oda-b	893	14 30	41 N	0 E *	IA	207
213 Lake Besala	888	8,37 0	39,16 N	0 E *	LSA	207
214 Lalibela	891	12 30	38,7 N	0 E *	IA	207
215 Moche Borago-1a	912	6 53	37 N	44,5 E	Aceramic Early Phase 1	181
216 Moche Borago-1b	913	6 53	37 N	44,5 E	Aceramic Intermediate Phase I	181
217 Moche Borago-1c	914	6 53	37 N	44,5 E	Aceramic Late Phase 1	181
218 Moche Borago-2	915	6 53	37 N	44,5 E	Ceramic Holocene	181
219 Moche Borago-3	916	6 53	37 N	44,5 E	Ceramic Holocene	181

CHAPTER 3 - SITE DATA : GEOGRAPHY, ARCHAEOLOGICAL CONTEXT

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
220 Quiha	890	14	30 N	0 E * LSA	207
Gabon					
221 Okala	253	0	29,43 N	9 24,75 E N	63
222 Oveng	93	0	28,72 N	9 31 E EIA	304
Ghana					
223 Anyinam-Area A-B-C	176	6	25 N	1 34 W	116
224 Anyinam-Area D	175	6	25 N	1 34 W	116
225 Asantamanso-ASI/III	172	6	25 N	1 34 W	116
226 Asantamanso-ASIV	173	6	25 N	1 34 W	116
227 Asantamanso-ASV	174	6	25 N	1 34 W	116
228 Begho	163	7	51 N	2 28 W IA	116
229 Bibease Plantation	167	5	46 N	0 14 W	116
230 Bono Manso	165	7	40 N	1 50 W *	116
231 Daboya	166	9	31 N	1 22 W IA	116
232 Dawu	162	5	59 N	0 5 W IA	116
233 Esiease - A-C-D	177	6	25 N	1 34 W	116
234 Esiease - H	178	6	25 N	1 34 W	116
235 Esiease - recent	179	6	25 N	1 34 W	116
236 Frederiksgave plantation	168	5	45 N	0 14 W	116
237 Kintampo Rockshelter K6-IA	156	8	1 N	1 45 W IA	116
238 Kintampo Rockshelter K6-K	157	8	1 N	1 45 W LSA	42, 116
239 Kintampo Rockshelter K6-K/P	158	8	1 N	1 45 W LSA	116
240 Kintampo Rockshelter K6-P	159	8	1 N	1 45 W LSA	116
241 Mandara	169	9	1 N	2 35 W IA	116
242 Mankuma	170	9	10 N	2 29 W IA	116
243 Mumute	161	7	35 N	2 22 W *	116
244 Ntereso	160	9	7 N	1 13 W LSA	42, 116
245 Nyanawase/Akwamu Amanfoso	164	5	55 N	0 39 W	116
246 Nyanga	171	9	14 N	2 21 W IA	116
Kenya					
247 Akira-N	718	0	14 S	36 19 E * LSA	122, 124
248 Akira-PIA	716	0	14 S	36 19 E * LSA	122, 124
249 Akira-SPN	717	0	14 S	36 19 E * LSA	122, 124

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
250 Causeway Site	712	0 48	36 S	E	LSA	122, 124
251 Crescent Island main	444	0 49	36 S	E *	LSA	122, 124
252 Dongdien	723	3 56	36 N	E	LSA	122
253 Ele Bor A-A	703	3 33	38 N	E *	LSA	123
254 Ele Bor A-B	704	3 33	38 N	E *	LSA	123
255 Ele Bor A-C	705	3 33	38 N	E *	LSA	123
256 Ele Bor A-D	706	3 33	38 N	E *	LSA	123
257 Engaruani	206	1 20	35 S	E *	LSA	205
258 Enkapune Ya Muto - Eburran 4a	484	0 50	36 S	E	LSA	199, 201
259 Enkapune Ya Muto - Eburran 4b	483	0 50	36 S	E	LSA	199, 201
260 Enkapune Ya Muto - Eburran 5a	482	0 50	36 S	E	LSA	199, 201
261 Enkapune Ya Muto - Eburran 5b	481	0 50	36 S	E	LSA	199, 201
262 Enkapune Ya Muto - Eburran 5c	480	0 50	36 S	E	LSA	199, 201
263 Enkapune Ya Muto BSS-HTL	479	0 50	36 S	E	LSA	199, 201
264 Fxj12-a	898	4 5	36 N	E	LSA	280
265 Fxj12-b	899	4 5	36 N	E	LSA	280
266 Fxj12-N	905	4 5	36 N	E	LSA	280
267 Gaj11	902	3 56	36 N	E	LSA	280
268 Gaj11	903	3 57	36 N	E	LSA	280
269 Gaj12	904	3 57	36 N	E	LSA	280
270 Gaj12	901	3 54,5	36 N	E	LSA	280
271 Gaj13	900	3 57	36 N	E	LSA	280
272 Gogo Falls-I	477	0 34	34 S	E	LSA	159
273 Gogo Falls-II-III	210	0 34	34 S	E	LSA	159, 204, 207
274 Gogo Falls-sq26-29	478	0 34	34 S	E	LSA	159
275 GvJm 19-HA	461	1 29	37 S	E	LSA	200
276 GvJm 19-HC	462	1 29	37 S	E	LSA	200
277 GvJm 19-TLPG	460	1 29	37 S	E	LSA	200
278 GvJm 22-LHC	464	1 29	37 S	E	LSA	200
279 GvJm 22-LPG	463	1 29	37 S	E	LSA	200
280 GvJm 46-LPG	465	1 29	37 S	E	LSA	200
281 GvJm 62-H	469	1 29	37 S	E	LSA	200
282 GvJm 62-LPG	468	1 29	37 S	E	LSA	200

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
283 GvJm 62-LPNG	467	1 29 S	37 3 E	MSA	200
284 Kulchurdo	707	2 20 N	37 59 E	Hi	120
285 Lemek North-East	209	1 6 S	35 23 E	LSA	122
286 Lothagam	909	2 55 N	36 4 E	LSA	280
287 Lowasera-a	906	2 53,5 N	36 43 E	LSA	280
288 Lowasera-b	907	2 53,5 N	36 43 E	LSA	280
289 Lowasera-c	908	2 53,5 N	36 43 E	LSA	280
290 Maasai Gorge Shelter	714	0 43 S	36 15 E	LSA	122, 124
291 Maringishu	710	0 1 N	36 6 E	LSA	122, 124
292 Marula Rock Shelter	724	0 40 S	36 10 E	LSA	122
293 Naivasha Railway Shelter	713	6 47 S	36 27 E	LSA	122, 124
294 Narosura	722	1 1 S	35 20 E	LSA	122, 124
295 Ndabibi	715	0 49 S	36 15 E	LSA	122, 124
296 Ngamuriak	207	1 6 S	35 23 E	LSA	205
297 Ngenyn	709	0 37 N	36 1 E	LSA	122, 124
298 Prolonged Drift	711	0 27 S	36 6 E	LSA	121, 122, 124
299 Salasun-LSA	721	1 9 S	36 21 E	LSA	122, 124
300 Salasun-PIA	719	1 9 S	36 21 E	LSA	122, 124
301 Salasun-PN	720	1 9 S	36 21 E	LSA	122, 124
302 Sambo Ngige	208	1 6 S	35 23 E	LSA	205
Lesotho					
303 Bolahla	748	30 4 S	28 24 E	LSA	243
304 Ha Makotoko	787	29 20 S	27 48 E	LSA	243
305 Lequetsoana	750	29 26 S	27 35 E	LSA	249
306 Likoaeng-I	739	29 44 S	28 45 E	LSA-EIA	249
307 Likoaeng-III-V	740	29 44 S	28 45 E	LSA-EIA	249
308 Likoaeng-VII-IX	741	29 44 S	28 45 E	LSA-EIA	249
309 Likoaeng-XI	742	29 44 S	28 45 E	LSA-EIA	249
310 Likoaeng-XIII	743	29 44 S	28 45 E	LSA	249
311 Likoaeng-XVII	744	29 44 S	28 45 E	LSA	249
312 Liphofung-CW	786	29 44 S	28 27 E	LSA	243
313 Liphofung-pCW	745	29 44 S	28 27 E	LSA	249
314 Muela	746	29 44 S	28 27 E	LSA	243

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation	
315 Niloana Tsoana	788	29	10 S	27	49 E	LSA	243
316 Sehonghong-a	749	29	46 S	28	47 E	LSA	
317 Sehonghong-b	778	29	46 S	28	47 E	LSA	
318 Sehonghong-c	779	29	46 S	28	47 E	LSA	
319 Sehonghong-d	780	29	46 S	28	47 E	LSA	
320 Sehonghong-e	781	29	46 S	28	47 E	LSA	
321 Tioutle-CWI	782	29	28 S	27	46 E	LSA	
322 Tioutle-O	783	29	28 S	27	46 E	LSA	
323 Tioutle-pCW	747	29	28 S	27	46 E	LSA	
324 Tioutle-R	784	29	28 S	27	46 E	LSA	
Libya							
325 Et Tera	364	32	10 N	20	18 E	LP	176
326 Hauah Fteah- Historic	354	32	50 N	22	5 E	Hi	176
327 Hauah Fteah-Iberomaurusian	351	32	50 N	22	5 E	IB	176
328 Hauah Fteah-Libyo-capsian	352	32	50 N	22	5 E	Libyco-capsian	176
329 Hauah Fteah-Neolithic	353	32	50 N	22	5 E	N	176
330 In Aghelachem-RT,SF	270	25	14,1 N	10	19,35 E	LSA	2
331 In Aghelachem-T1	269	24	14,1 N	10	19,35 E	LSA	2
332 Murzuq	882	24	40 N	13	0 E	LSA	223
333 Ti-n-Thora East	140	25	8 N	10	27 E	LSA	43, 106, 113
334 Ti-n-Thora North	139	25	8 N	10	27 E	LSA	43, 106, 113
335 Ti-n-Thora Two Caves	141	25	8 N	10	27 E		106, 113
336 Uan Afuda-US1-3	264	24	52,12 N	10	30,32 E	LSA	68
337 Uan Afuda-US4-7	263	24	52,12 N	10	30,32 E	LSA	68
338 Uan Muhuggiag (LA)	262	24	50,53 N	10	30,78 E	LSA	68
339 Uan Muhuggiag (LP)	261	24	50,53 N	10	30,78 E	LSA	68, 95
340 Uan Muhuggiag (MP)	260	24	50,53 N	10	30,78 E	LSA	68, 95
341 Uan Tabu-11	266	24	51,58 N	10	31,7 E	LSA	68
342 Uan Tabu-14-20	265	24	51,58 N	10	31,7 E	LSA	68
343 Uan Telocat (EP)	257	24	46,12 N	10	36,07 E	LSA	68, 95
344 Uan Telocat (LP)	259	24	46,12 N	10	36,07 E	LSA	68, 94
345 Uan Telocat (MP)	258	24	46,12 N	10	36,07 E	LSA	68, 95
346 Wadi Tannezzuft-00/195	268	25	30,23 N	10	22,28 E	LSA	2

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N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
Mozambique					
441 Manekweni-1	656	22 10 S	34 30 E	LIA	12
442 Manekweni-2-ABC	659	22 10 S	34 30 E	LIA	12
443 Manekweni-3	660	22 10 S	34 30 E	LIA	12
444 Manekweni-4	661	22 10 S	34 30 E	LIA	12
445 Manekweni-5	662	22 10 S	34 30 E	LIA	12
Namibia					
446 Aar I and II	535	26 43 S	16 31 E	LSA	282
447 Apollo 11-a	540	27 45 S	17 6 E	LSA	282
448 Apollo 11-b	541	27 45 S	17 6 E	LSA	282
449 Apollo 11-c	542	27 45 S	17 6 E	Early LSA	282
450 Brandberg-BBC	97	21 9 S	14 32 E	* IA	303
451 Brandberg-late LSA	96	21 9 S	14 32 E	* Late LSA	303
452 Brandberg-LSA	95	21 9 S	14 32 E	* LSA	303
453 Brandberg-MSA	94	21 9 S	14 32 E	* MSA	303
454 Fackelträger	544	22 30 S	15 32 E	* LSA	282
455 Geduld-LIA	843	20 17 S	15 50 E		278
456 Geduld-LSA	844	20 17 S	15 50 E		278
457 Haalenberg	543	26 40 S	15 32 E	LSA	282
458 Namtib	536	26 2 S	16 15 E	LSA	282
459 Nos	538	25 30 S	15 30 E	LSA	282
460 Oshigambo Peninsula	727	18 42,633 S	16 3,098 E	LPI	142
461 Pokkenbank	534	27 13 S	16 31 E	LSA	282
462 Steenbras Bay	539	26 40 S	15 9 E	LSA	282
463 Tiras	537	26 13 S	16 34 E	LSA	282
Niger					
464 Adrar Bous	388	20 18 N	8 57 E	LSA	41, 264
465 Adrar Bous 10	363	20 19,83 N	9 2 E	LSA	265
466 Adrar Bous-K	869	20 18 N	8 57 E	LSA	125, 276
467 Adrar Bous-T	870	20 18 N	8 57 E	LSA	125, 276
468 Arlit-a	885	18 44 N	7 43 E	LSA	108
469 Arlit-b	884	18 44 N	7 43 E	LSA	108
470 Awzerkat-1	419	17 14 N	5 32 E	LSA	82

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
409 Tegdaoust-c	380	17	25	N 10	W	Hi 26
410 Tegdaoust-d	381	17	25	N 10	W	Hi 26
411 Tichitt - Akjinjeir phase	452	18	28	N 9	W	LSA 216
412 Tichitt - Arriane phase	453	18	28	N 9	W	LSA 216
413 Tichitt - Chebka phase	454	18	25	N 9	W	LSA 216
414 Tichitt - Goungou phase	457	18	20	N 9	W	LSA 216
415 Tichitt - Khimiya phase	458	18	21	N 9	W	LSA 216
416 Tichitt - Naguez phase	455	18	25	N 9	W	LSA 216
417 Tichitt - Nkhal phase	456	18	25	N 9	W	LSA 216
418 Tintan	372	20	46	N 16	W	LSA 27
Morocco						
419 Bou Saria A	436	35	31	N 5	W	IA 220
420 Bou Saria B	437	35	31	N 5	W	Proto-campaniforme (recent Neolithic) 220
421 Bou Saria C-D	438	35	31	N 5	W	Cardial 220
422 El Harhoura 1	802	33	54,14	N 6	W	LSA 5
423 El Harhoura 2	868	33	54,14	N 6	W	LSA 217
424 El Mnassa	867	33	55,67	N 6	W	early N 217
425 Ghar-Khal I	439	35	52,607	N 5	W	Early N, Cardial 220
426 Ghar-Khal IIb-V	441	35	52,607	N 5	W	Ancient N 220
427 Ghar-Khal II-IIIa	440	35	52,607	N 5	W	Recent N 220
428 Ghar-Khal-Ib	865	35	52,607	N 5	W	Ib 29
429 Kaf-taht-el-Ghar-A	429	35	31	N 5	W	P 220
430 Kaf-taht-el-Ghar-B	430	35	31	N 5	W	P 220
431 Kaf-taht-el-Ghar-C	431	35	31	N 5	W	Campaniforme 220
432 Kaf-taht-el-Ghar-D	432	35	31	N 5	W	Recent N 220
433 Kaf-taht-el-Ghar-E	433	35	31	N 5	W	Cardial 2 220
434 Kaf-taht-el-Ghar-F	434	35	31	N 5	W	Cardial 1 220
435 Kaf-taht-el-Ghar-G	435	35	31	N 5	W	Late N 220
436 Khef el Hammar	708	35	20,62	N 5	W	Ib 13
437 Khef-el-Baroud	442	33	55	N 7	W	Campaniforme? 220
438 Khef-el-Baroud-aven	443	33	55	N 7	W	bronze 220
439 Rouazi necropolis	366	33	51	N 7	W	N 72
440 Taforalt	866	34	48,63	N 2	W	Ib 29

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation	
377 Jenné-Jeno - phase III	86	13	53	N	4	32 W IA	190, 293
378 Jenné-Jeno - phase IV	87	13	53	N	4	32 W IA	190, 293
379 Karkarichinkat KN05	864	16	52	N	0	12 E LSA	91
380 Karkarichinkat N-S	475	16	52	N	0	12 E LSA	271, 272
381 Kobadi	228	15	21,5	N	5	29 W LSA	155
382 Kolima Sud-I	233	15	23	N	5	19 W IA	1700-1300 cal BC (Phase I)
383 Kolima Sud-II	234	15	23	N	5	19 W N	1300-500 cal BC (Phase II)
384 Koroukorokalé-I	215	12	24	N	8	14 W IA	Date : transitiond II-I (after 1020+-105 bp)
385 Koroukorokalé-III	213	12	24	N	8	14 W LSA	Preceramic LSA, transition III-II (before 5185 +-95 BP)
386 Mansa Musa	691	16	16	N	0	3 W IA	149
387 Tessalit	226	20	0	N	0	20 W LSA	154, 307
388 Tiabel Goudiodié	232	15	3	N	5	15 W IA	189, 195
389 Tongo Maaré Diabel	231	15	1	N	2	57 W IA	189
390 Windé Koroji I,III	277	15	8	N	2	56 W LSA	191
391 Windé Koroji SO	276	15	8	N	2	56 W LSA	191
392 Zampia-Tumulus 7	278	15	7	N	2	57 W LSA	191
Mauritania							
393 Berouâga	365	21	14,45	N	16	27,02 W LSA	157
394 Chami-A2	373	20	7	N	16	6 W	27
395 Dhar Tichitt- highest beach	447	18	28	N	9	30 W LSA	215
396 Dhar Tichitt- latest phase	451	18	28	N	9	30 W LSA	215
397 Dhar Tichitt- lowest beach	449	18	28	N	9	30 W LSA	215
398 Dhar Tichitt- middle beach	448	18	28	N	9	30 W LSA	215
399 Dhar Tichitt- post beach	450	18	28	N	9	30 W LSA	215
400 Dhar Tichitt Site 38	446	18	25	N	9	14 W LSA	143, 145
401 Dhar Tichitt Site 46	445	18	24	N	9	15 W LSA	143, 144
402 DN4-BKH-S5	227	16	45	N	7	15 W LSA	225
403 Draa Malichigdane	503	20	0	N	13	35 W LSA	40
404 Ile de Tidra	500	19	47	N	16	24 W LSA	328
405 Khatt Lemaiteg	361	19	12	N	14	45 W LSA	14
406 Khneivissa	229	17	45	N	7	28 W LSA	4
407 Tegdaoust-a	378	17	25	N	10	25 W	26
408 Tegdaoust-b	379	17	25	N	10	25 W	26

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
347 Wadi Tannezzuft-96/129	267	25 22,1 N	10 18,75 E	LSA	Late pastoral	2
Madagascar						
348 Fompona	422	21 15,46 S	48 20,75 E	E		89
349 Madagascar	423	19 40 S	46 30 E *	E *		89
Malawi						
350 Chikumba	588	15 55 S	35 10 E *	E *	EIA	331
351 Malowa-1	872	15 49 S	35 13 E	E	LIA	158
352 Malowa-2	873	15 49 S	35 13 E	E	LIA	158
353 Malowa-3	874	15 49 S	35 13 E	E	IA	158
354 Malowa-4	875	15 49 S	35 13 E	E	IA	158
355 Malowa-5	876	15 49 S	35 13 E	E	LSA	158
356 Matope Court-EIA	586	15 22 S	34 56 E	E	EIA	331
357 Matope Court-IA	584	15 22 S	34 56 E	E	IA	331
358 Matope Court-LIA	585	15 22 S	34 56 E	E	LIA	331
359 Namichimba	587	15 20 S	35 10 E *	E *	IA	331
Mali						
360 Akumbu-AK3	235	15 4 N	5 35 W	W	IA	194, 285
361 Akumbu-EIA	236	15 4 N	5 35 W	W	IA	194, 285
362 Akumbu-MIA	237	15 4 N	5 35 W	W	IA	194, 285
363 Asselar	473	19 0 N	0 10 E	E	LSA	273
364 Dia-Shoma Horizon I	218	14 21 N	4 58 W	W	IA	16
365 Dia-Shoma Horizon II	219	14 21 N	4 58 W	W	IA	16
366 Dia-Shoma Horizon III+IV	220	14 21 N	4 58 W	W	IA	16
367 Dia-Shoma Horizon V	221	14 21 N	4 58 W	W	IA	16
368 Erg Ine Sakane	225	20 55 N	0 32 W	W	LSA	154, 307
369 Est-Hassi el Abiod	224	18 27,5 N	2 28 W	W	LSA	154, 307
370 Fantannyégéné I	255	13 45 N	9 14 W	W	N	47
371 Gao Ancien	217	16 16 N	0 3 W	W	IA	196
372 Gao Saney	216	16 16 N	0 3 W	W	IA	196
373 Hamdallahi	382	14 19 N	4 6 W	W	IA	57, 320
374 Hassi el-Abiod	223	19 7 N	3 55 W	W	LSA	154, 307
375 In Begaouaen	474	18 0 N	1 0 E *	E *	LSA	273
376 Jenné-Jeno - phase I/II	85	13 53 N	4 32 W	W	IA	190, 293

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
471 Chin Tafidet	285	17 26	6 15	E LSA	90, 224
472 Gawane	421	16 30	5 46	E LSA	82
473 Gobero-K	725	16 55,88	9 30,13	E LSA	270
474 Gobero-T	726	16 55,88	9 30,13	E LSA	270
475 In Aridal 1	411	17 42,5	4 21	E LSA	82
476 Madaouéla	655	18 40	7 35	E LSA	55
477 Mentés 1	401	16 59	4 18	E LSA	82
478 Mentés 13	408	17 1	4 19	E LSA	82
479 Mentés 20	409	16 58	4 19	E LSA	82
480 Mentés 21	410	16 57	4 21	E LSA	82
481 Mentés 4	403	16 59	4 18	E LSA	82
482 Mentés 5	406	16 59	4 18	E LSA	82
483 Mentés 6	404	17 1	4 19	E LSA	82
484 Mentés 7	407	17 1	4 19	E LSA	82
485 Mentés 7b	405	17 1	4 19	E	82
486 Mentés nord	402	16 58	4 18	E LSA	82
487 Takene Bawat 1	412	17 33	4 38	E LSA	82
488 Takene Bawat 2	413	17 33	4 43	E LSA	82
489 Takene Bawat 5	414	17 34	4 42	E LSA	82
490 Takene Bawat 6	415	17 35	4 45	E LSA	82
491 Tarada-C	400	15 58	4 52	E LSA	82
492 Tarada-T	399	15 58	4 52	E LSA	82
493 Tasara-1	420	16 48	5 40	E LSA	82
494 Tin Kotkon	416	17 32	5 20	E LSA	82
495 Tin Ouaffadene	362	20 10,67	9 11,5	E LSA	265
496 TMY1	417	17 34	5 26	E LSA	82
497 TMY3	418	17 36	5 24	E LSA	82
Nigeria					
498 Bukarkurari-I	327	11 45	13 25	E LSA	183
499 Bukarkurari-II	328	11 45	13 25	E LSA	183
500 Daima	886	12 12	14 27	E LSA	108
501 Dorota	333	11 57	13 9	E EIA	183
502 Elkido North	332	12 3	13 14	E EIA	183

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N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
503 Gajiganna A	316	12	13	E	Gajiganna lib	30, 183
504 Gajiganna B1-lower	317	12	13	E	Gajiganna lib	30, 183
505 Gajiganna B2	318	12	13	E	Gajiganna lib	30, 183
506 Gajiganna C	315	12	13	E	Gajiganna lib	183
507 Galaga	334	12	13	E	Bama Deltaic Complex, mid 9th to recent	183
508 Gilgila-Ila	322	12	13	E	Gajiganna lib	183
509 Gilgila-IIb	323	12	13	E	Gajiganna lib	183
510 Gilgila-IIc	324	12	13	E	Gajiganna lib	183
511 Kariari	330	11	37	E	Gajiganna II	183
512 Kelumeri	329	11	39	E	Gajiganna later phase	183
513 Kursakata	91	12	4	E	LSA	130
514 Kursakata-IA	336	12	14	E	IA	183
515 Kursakata-LSA	335	12	14	E	LSA	183
516 Labe Kanuri	331	12	13	E	EIA	183
517 Labe NA 97/24	320	12	13	E	Gajiganna I	183
518 Mege I	337	12	14	E	Daima I	183
519 Mege II	338	12	14	E	Daima II	183
520 Mege III	339	12	14	E	Daima III	183
521 Mege IV	340	12	14	E	Recent	183
522 NA 93/10	325	12	13	E	Gajiganna lib	183
523 NA 93/36	321	12	13	E	Gajiganna lib	183
524 NA 93/42	319	12	13	E	Gajiganna Group	183
525 Ngala I	341	12	14	E	IA	183
526 Ngala II	342	12	14	E	IA	183
527 Ngala IIIa	343	12	14	E	IA	183
528 Ngala IIIb	344	12	14	E	IA	183
529 Ngala IV	345	12	14	E	IA	183
530 Zilum	326	12	21	E	Gajiganna III	183
Rhodesia						
531 Chamabvefva	813	30	4,75	S	20	147
532 Harleigh Farm-1	840	18	25	S	32	261
533 Harleigh Farm-2	841	18	25	S	32	261
534 Mabveni	812	20	22	S	30	146

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation			
Rwanda									
535 Akameru-Cyinkomane	114	1	29	S	36	E	291		
536 Muganza	113	1	31	S	29	42	E	291	
537 Ryamurari	115	2	0	S	30	0	E *	291	
Senegal									
538 Cubalel-Ia	238	16	16	N	14	0	W	IA	193
539 Cubalel-Ib	239	16	16	N	14	0	W	IA	193
540 Cubalel-II	240	16	16	N	14	0	W	IA	193
541 Cubalel-III	241	16	16	N	14	0	W	IA	193
542 Ndiamon-Badat	279	13	53.85	N	16	43.49	W	IA	11, 295
543 Ogo region	675	15	33	N	13	17	W	Hi	56
544 Sintiou-Bara	271	15	42	N	13	23	W	P	283
545 Siouré-Ia	248	16	27	N	14	9	W	IA	193
546 Siouré-Ib	249	16	27	N	14	9	W	IA	193
547 Siouré-II	250	16	27	N	14	9	W	IA	193
548 Siouré-IV, V	252	16	27	N	14	9	W	IA	193
549 Tulel-Fobo	83	13	38	N	15	39	W	P	302
550 Walaldé-W1/1-19	153	16	30	N	14	13	W	IA	77
551 Walaldé-W1/20-25	154	16	30	N	14	13	W	IA	77
552 Walaldé-W2	155	16	30	N	14	13	W	IA	77
Sinai									
553 Abu Gedar	697	28	26	N	33	42	E		64
554 El'Awag	698	28	22	N	33	55	E		64
South Africa									
555 /Ai Tomas	613	28	17	S	17	4	E	LSA	140
556 2627 CD7	833	26	47,73	S	22	22,12	E	IA	184
557 Badfontein Valley-2530 AD 10	803	25	20	S	30	20	E	IA, Hi	66
558 Blombos Cave	595	34	23	S	21	14	E		140, 141
559 Blydefontein I-II	621	30	50	S	25	30	E	LSA	169
560 Blydefontein III-IV	622	30	50	S	25	30	E	LSA	169
561 Blydefontein V	624	30	50	S	25	30	E	LSA	169
562 Blydefontein VI-VII	623	30	50	S	25	30	E	LSA	169
563 Boomplass Cave-a	525	33	22	S	22	11	E	LSA	76, 167

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation		
564 Boomplass Cave-b	524	33	22 S	22	11 E	LSA	Albany Tradition	76, 167
565 Boomplass Cave-c	523	33	22 S	22	11 E	LSA	Wilton Tradition	76, 167
566 Boomplass Cave-d	299	33	22 S	22	11 E	LSA	Herder Unit	167
567 Border Cave	528	27	14 S	32	0 E	IA		166
568 Buffelskloof RS-a	601	33	30,66 S	21	52 E	MSA	Albany	168, 218
569 Buffelskloof RS-b	602	33	30,66 S	21	52 E	LSA	Wilton	168, 218
570 Buffelskloof RS-c	603	33	30,66 S	21	52 E	LSA	Wilton	168, 218
571 Buffelskloof RS-d	604	33	30,66 S	21	52 E	LSA	Wilton	168, 218
572 Buffelskloof RS-e	605	33	30,66 S	21	52 E	LSA	Wilton	168, 218
573 Burchell's Shelter	634	28	48 S	23	43 E	LSA		169
574 Bushman Rock Shelter-LSA	569	25	0,5 S	30	38 E	LSA		238
575 Bushman Rock Shelter-MSA	568	24	35 S	30	38 E	MSA		238
576 Byeneskranskop Cave 1a	519	34	35 S	19	28 E	LSA	Prewilton	170
577 Byeneskranskop Cave 1b	520	34	35 S	19	28 E	LSA	Prewilton	170
578 Byeneskranskop Cave 1c	521	34	35 S	19	28 E	LSA	Prewilton	170
579 Byeneskranskop Cave 1d	522	34	35 S	19	28 E	LSA	Wilton	170
580 Collingham Shelter	790	29	27 S	29	47 E	LSA	pCW	243
581 Colwinton Shelter-CW	791	31	7,75 S	27	44,37 E	LSA	Classic Wilton	243
582 Colwinton Shelter-pCW	792	31	7,75 S	27	44,37 E	LSA	pCW	243
583 Connies Limpet Bar	517	32	18 S	18	20 E	LSA		173
584 De Hoop	764	29	14 S	27	44 E	LSA	pre-ceramic, Post-classic Wilton	350
585 Deelpa	576	29	11 S	25	45 E	Natural site		269
586 Die Kelders	615	34	32 S	19	22 E	LSA		10, 140
587 Dikbosch 1	642	28	39 S	28	54 E	LSA		76, 169
588 Dikbosch 2	633	28	39 S	28	54 E	LSA		169
589 Doornfontein	628	28	12,33 S	23	2 E	LSA		15, 169
590 Drie Susters	849	33	6,06 S	18	0,05 E	IA		277
591 Drie Susters Main	850	33	6,05 S	18	0,06 E	IA		277
592 Driebos	854	33	6,03 S	19	3 E	IA		277
593 Eiland Salt Works-a	597	23	40 S	30	40 E	EIA	Matola Phase	244
594 Eiland Salt Works-b	598	23	40 S	30	40 E	EIA	Eiland Phase	244
595 Eland's Bay Cave-AI	505	32	18 S	18	20 E	LSA	Albany	173
596 Eland's Bay Cave-RI	504	32	18 S	18	20 E	LSA	Robberg	173

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
597 Eland's Bay Cave-Wia	506	32 18 S	20 18 E	LSA	173
598 Eland's Bay Cave-Wib	507	32 18 S	20 18 E	LSA	173
599 Eland's Bay Cave-Wic	508	32 18 S	20 18 E	LSA	173
600 Eland's Bay Cave-Wid	509	32 18 S	20 18 E	LSA	173
601 Eland's Bay Open-a	514	32 18 S	20 18 E	LSA	173
602 Eland's Bay Open-b	515	32 18 S	20 18 E	LSA	173
603 Emambeni	827	26 45 S	35 31 E	LSA	171
604 Equus Cave 1A	795	27 37 S	37 24 E	LSA	175
605 Ficus A	647	24 10 S	29 13 E	EIA	254
606 Ficus B	648	24 10 S	29 13 E	EIA	254
607 Ficus C	649	24 10 S	29 13 E	LIA	254
608 Forest Hall	860	33 54 S	22 20 E		356
609 Glentyre	810	34 0 S	22 42 E	LIA	88
610 Green Elliott Shelter I-III	625	30 55 S	25 45 E	LSA	169
611 Green Elliott Shelter IV-VI	626	30 55 S	25 45 E	LSA	169
612 Haaskraal Shelter	594	31 34 S	24 13 E	IA	97
613 Hail Stone Midden	516	32 18 S	20 18 E	LSA	173
614 Hapi Pan	567	22 25 S	31 20 E	LIA	240
615 Happy Rest	596	23 30 S	31 50 E	IA	339
616 Heuningneskrans-I/O	821	34 36 S	30 39 E	LSA	171
617 Heuningneskrans-R	820	34 36 S	30 39 E	LSA	171
618 Hill X	734	24 1 S	31 9 E	Hi	250
619 HKLP Ia	829	26 1 S	30 48 E	LSA	177
620 HKLP Ib	830	26 1 S	30 48 E	LSA/IA	177
621 HKLP Va	831	26 0 S	30 46 E	LSA	177
622 HKLP Vb	832	26 0 S	30 46 E	LSA/IA	177
623 Icon	582	22 25 S	29 15 E	IA	332
624 Jubilee Shelter-O	857	25 42 S	27 55 E	LSA	286
625 Jubilee Shelter-PW	855	25 42 S	27 55 E	LSA	286
626 Jubilee Shelter-W	856	25 42 S	27 55 E	LSA	286
627 Kasteelberg A	616	32 48 S	17 56 E	LSA	140, 172, 174
628 Kasteelberg B	617	32 48 S	17 56 E	LSA	172, 174
629 Kekane	652	24 10 S	29 E	LIA	254

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
630 Klasies River Mouth-1D/III	531	34 5 S	24 22 E	*	LSA	165
631 Klasies River Mouth-1I	529	34 5 S	24 22 E	*	LSA	165
632 Klasies River Mouth-1II	530	34 5 S	24 22 E	*	LSA	165
633 Klasies River Mouth-5II	532	34 5 S	24 22 E	*	LSA	165
634 Klein Kliphuis	839	32 7 S	18 51 E		LSA	7, 317
635 Klingbeil 2530 AB 1	808	25 5,9 S	30 29,8 E		EIA	86
636 Klipspring	599	25 8 S	30 44 E	*	EIA	244
637 Kreeftebaai	852	33 8,06 S	17 59,08 E		IA	277
638 Langsdraai	600	25 6 S	30 42 E	*	EIA	244
639 Large Rock Shelter	806	33 19,5 S	26 8,5 E		LSA	75
640 Le2	564	23 45 S	31 30 E		LIA	240, 252
641 Le6	550	23 50 S	31 40 E		EIA	239, 240
642 Le7a	547	23 50 S	31 40 E		EIA	239
643 Le7b	551	23 50 S	31 40 E		EIA	239
644 Leliehoek	763	29 12 S	27 26 E		LSA	85
645 Limerock 1	631	28 33 S	24 8 E		LSA	169
646 Limerock 2	632	28 33 S	24 8 E		LSA	169
647 Lydenburg Heads site	809	25 6,33 S	30 29,66 E		EIA	87
648 Ma38	545	23 43 S	31 21 E		EIA	239
649 Ma4	555	23 5 S	31 30 E		EIA	239
650 Magogo-1	578	28 27 S	30 47 E		EIA	335
651 Magogo-2	579	28 27 S	30 47 E		EIA	335
652 Magogo-3	580	28 27 S	30 47 E		EIA	335
653 Malwula	828	26 15 S	26 45 E		LSA	171
654 Mamba 1	583	28 56 S	31 2 E		EIA	337
655 Mapotini Hill	732	23 57 S	31 5 E		Hi	250
656 Mapungubwe-Hill	612	22 25 S	29 15 E		EIA	336
657 Mapungubwe-K2/TS3	527	22 25 S	29 15 E		IA	336
658 Mapungubwe-ST	611	22 25 S	29 15 E		EIA	333, 336
659 Marupale Hill	738	24 31 S	6 E		Hi	250
660 Mauermanshoek	765	28 51 S	27 14 E		LSA	350
661 Mgoduyanuka	572	28 43 S	29 23 E		LIA	246
662 Mhlopheni	581	28 28 S	30 47 E		EIA	335

CHAPTER 3 - SITE DATA : GEOGRAPHY, ARCHAEOLOGICAL CONTEXT

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
663 Mhlwazini Cave	789	29	29	E LSA	243
664 Mo8	546	23	31	E EIA	239
665 Msuluzi Confluence	646	28	30	E EIA	254
666 Muhululu Hill	736	24	1	E Hi	250
667 Ndondondwane	577	28	50	E EIA	340
668 Nelson Bay Cave- PW	753	34	6	E LSA	163
669 Nelson Bay Cave- R	752	34	6	E LSA	163
670 Nelson Bay Cave- W	754	34	6	E LSA	163
671 Oakhurst	811	34	0	E LIA	88
672 OFD1	635	29	22	E * LSA	169
673 Ol20	552	24	31	E EIA	239
674 Ondini	859	28	15	E LIA	352
675 Onink	826	26	45	E LSA	171
676 Oudepost I	805	33,08	18,02	E Hi	71
677 Pa8.1	556	22	29	E EIA	239
678 Pancho's Kitchen Midden 1-2	817	32	20,22	E	151
679 Pancho's Kitchen Midden 3-4	818	32	20,22	E	151
680 Pancho's Kitchen Midden 6-7	819	32	20,22	E LSA	151
681 Paternoster1-2	836	32	48	E LSA	262
682 Paternoster3-4	837	32	48	E	262
683 Paternoster5-6	838	32	48	E	262
684 Ph1	566	23	45	E LIA	240
685 Ph6	560	23	30	E LIA	240
686 Ph9	553	23	47	E EIA	239
687 Pjene Hill	737	24	1	E Hi	250
688 Pont-Drift-LKA	609	22	13,867	E EIA	247, 333, 336
689 Pont-Drift-Zhizo	608	22	13,867	E EIA	247, 333, 336
690 Powerhouse Cave	629	27	37	E LSA	169
691 Pr34	558	25	5	E LSA	240
692 QwaQwa Museum	606	28	29	E LIA	32
693 Randjies	359	23	20	E LIA	242
694 Ravenscraig Shelter-pCW	794	30	0	E LSA	243
695 Ravenscraig Shelter-R	793	30	0	E LSA	243

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N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
696 Rhenosterkloof	651	24	27	E LIA	254
697 Riversmead Shelter I-II	618	30	25	E LSA	169
698 Riversmead Shelter III-IV	619	30	25	E LSA	169
699 Riversmead Shelter VI-IX	620	30	25	E LSA	169
700 Rooiels	842	34	18	E	274
701 Rooikrans-CW	785	29	27	E LIA	243
702 Rooikrans-pCW	650	29	27	E LIA	243
703 Roosfontein	814	28	49	E LSA	162
704 Rose Cottage Cave-A-Mn	751	29	27	E LSA	243, 249
705 Rose Cottage Cave-DB2	759	29	27	E LSA	350
706 Rose Cottage Cave-OIC	760	29	27	E LSA	243
707 Rose Cottage Cave-WI	761	29	27	E LSA	243
708 Schroda	607	22	25	E EIA	336
709 Sebatini Hill	730	23	31	E Hi	250
710 Selongwe Hill	735	23	31	E Hi	250
711 Serotwe Hill	731	24	31	E Hi	250
712 SH14a	554	23	31	E EIA	239
713 SH16	559	23	31	E LIA	240
714 Sh27	565	23	31	E LIA	240
715 Shankare Hill-a	728	23	31	E Hi	250
716 Shankare Hill-b	729	23	31	E Hi	250
717 SK17	549	24	31	E EIA	239
718 Sk4	557	25	31	E LSA	240
719 Smitswinkelbaai Cave	459	34	18	E	198
720 Sonkoanini Hill	733	24	31	E Hi	250
721 Spoegrivier-a	614	30	17	E LSA	8, 140, 329
722 Spoegrivier-b	755	30	17	E LSA	140, 329
723 Spoegrivier-c	756	30	17	E LSA	140, 329
724 Spring Cave	518	32	18	E LSA	173
725 Steenbokfontein-1	589	32	18	E LSA	9, 152
726 Steenbokfontein-2	590	32	18	E LSA	9, 152
727 Steenbokfontein-3	591	32	18	E LSA	9, 152
728 Steenbokfontein-4a	592	32	18	E LSA	9, 152

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
729 Steenbokfontein-4b	593	32 10 S	18 20 E	E	LSA	9, 152
730 Tandjesberg	762	29 5 S	28 24 E	E	LSA	350
731 Ti3	562	24 5 S	31 35 E	E	LIA	240
732 Ti6	563	24 5 S	31 35 E	E	LIA	240
733 Tienfontein 2	639	30 10 S	27 0 E	E *	LSA	169
734 Tienfontein 4A	640	30 10 S	27 0 E	E *	LSA	169
735 Tortoise cave-a	510	32 18 S	18 20 E	E	LSA	173
736 Tortoise cave-b	511	32 18 S	18 20 E	E	LSA	173
737 Tortoise cave-c	512	32 18 S	18 20 E	E	LSA	173
738 Tortoise cave-d	513	32 18 S	18 20 E	E	LSA	173
739 Tsh1	548	24 54 S	31 40 E	E	EIA	239
740 Twyfelpoort	766	28 37 S	27 34 E	E	LSA	350
741 Umgungundlovu	360	28 32,1 S	31 31,1 E	E	LIA	242, 251
742 Ventershoek	627	29 45 S	27 0 E	E *	LSA	169
743 Vlaeberg	851	33 6,08 S	18 0,06 E	E	IA	277
744 Voëlvlei	853	33 24 S	19 4,06 E	E	IA	277
745 Westbury Rock Shelter	801	28 45 S	27 40 E	E	LSA	245, 284
746 Wildebeestfontein	653	26 27 S	29 9 E	E	LIA	254
747 Witklip-1	845	32 55,06 S	17 59,06 E	E	IA	277
748 Witklip-2	846	32 55,06 S	17 59,06 E	E	IA	277
749 Witklip-3	847	32 55,06 S	17 59,06 E	E	IA	277
750 Witklip-4	848	32 55,06 S	17 59,06 E	E	LSA	277
751 Wosi-early EIA	573	28 54,417 S	31 1,833 E	E	EIA	318, 338
752 Wosi-middle-late EIA	574	28 54,417 S	31 1,833 E	E	EIA	318, 338
753 Wosi-terminal EIA	575	28 54,417 S	31 1,833 E	E	EIA	318, 338
Sudan						
754 Abu Darbein	195	17 42 N	34 2 E	E	LSA	232, 234
755 Abu Hugar	134	13 1 N	33 58 E	E	MSA	104
756 Abu Tabari 02/1	800	17 42 N	28 38 E	E *	LSA	255
757 Aneibis	197	17 57 N	34 0 E	E	LSA	232, 234
758 Awlad el Imam	77	15 54,1 N	32 35,7 E	E	LSA	39
759 Berber	274	18 1 N	33 59 E	E	IA	179
760 Buhen	690	21 44 N	31 11 E	E	Hi	65

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
761 Debbat Bangdit	128	11	35 N	32 46 E LSA	115
762 Debbat El Eheima	127	11	45 N	32 46 E LSA	115
763 Djarabona 84/13	799	17	14 N	26 29 E * LSA	255
764 El Damer	196	17	36 N	33 58 E LSA	232, 234
765 El Kadada	138	16	45 N	33 33 E LSA	107
766 El Kenger Middle/East	273	15	57 N	32 39 E LSA	38
767 El Mahalab	673	15	30 N	32 40 E LSA	51
768 El Nofalab	393	15	54 N	32 32 E LSA	84
769 El Qala 'a	81	15	58 N	32 35,5 E LSA	39
770 El Temeyim	80	15	55,3 N	32 36 E LSA	39
771 El Zakiab	391	15	46 N	32 35 E LSA	84
772 Erg of Ennedi	798	18	10 N	25 25 E	221
773 Esh Shaheinab	181	16	2 N	32 33 E LSA	84, 226
774 Gash Delta-AA	682	15	57 N	36 5 E LSA	119
775 Gash Delta-K	683	15	57 N	36 5 E * LSA	119
776 Gebel Tageru	796	17	2 N	27 7 E	221
777 Geili	131	16	1 N	32 34 E LSA	102, 109
778 Gism el-Arba	669	19	26 N	30 32 E LSA	52
779 Guli	680	13	34 N	32 34 E LSA	1
780 Jebel et Tomat	684	13	45 N	32 32 E *	62, 128
781 Jebel Umm Marrahi	76	15	59 N	32 32 E LSA	112
782 Kabbashi	82	15	53,9 N	32 35,8 E LSA	39
783 Kadero	146	15	44 N	32 35 E LSA	105
784 Kadruka	272	19	26,25 N	30 32,75 E N	46
785 Kerma	254	19	38 N	25 E LSA	48
786 Khabbashi Haitah	78	15	53,7 N	32 36 E LSA	39
787 Khartoum Hospital	180	15	35 N	32 31 E LSA	226
788 Khasm el Girba - Kassala	99	15	9,4 N	36 8,5 E LSA	228, 292
789 Khasm el Girba - KG14	98	14	59,5 N	35 58 E LSA	228, 292
790 Khasm el Girba - KG15-16	27	15	0 N	35 58 E LP	203, 228, 292
791 Khasm el Girba - KG68	28	14	59,5 N	35 58 E LSA	203, 228, 292
792 Lake Sidigh Complex	797	16	55 N	26 46 E	221
793 Laqiya area - 82/29	47	20	14 N	27 30 E LSA	314

N site Site	SITE N	Latitude	Longitude	* Culture, facies, industry, chronology, notes	Citation
794 Laqiya area - 82/31	48	20	14 N	27 30 E LSA	314
795 Laqiya area - 82/lake	49	20	14 N	27 30 E	314
796 Lower Wadi Howar-5	472	17	45 N	29 45 E	222
797 Mahal Teglinos K1-CG	150	15	28 N	36 21 E LSA	117
798 Mahal Teglinos K1-EG	148	15	28 N	36 21 E LSA	117
799 Mahal Teglinos K1-JM	152	15	28 N	36 21 E LSA	117
800 Mahal Teglinos K1-LG	151	15	28 N	36 21 E LSA	117
801 Mahal Teglinos K1-MG	149	15	28 N	36 21 E LSA	117
802 Mahal Teglinos K1-PG	147	15	28 N	36 21 E LSA	117
803 Palaeolake S98/S20-21	192	18	0 N	25 0 E * LSA	233
804 Rahib-80/87	193	17	33 N	26 57 E LSA	233, 255
805 Saggai 1	132	15	55 N	32 36 E LSA	102
806 Sai	275	20	42 N	30 19 E IA	53
807 Sarurab	681	15	56,25 N	32 32,5 E LSA	160, 161
808 Selima Sandsheet - 85/73-2	45	21	5 N	29 20 E LSA	314
809 Selima Sandsheet - 85/80	46	21	5 N	29 20 E LSA	314
810 Shabona	685	14	38 N	32 16 E LSA	62, 128
811 Shaqadudq-S1-A	189	16	20 N	33 20 E LSA	231
812 Shaqadudq-S1-B	188	16	20 N	33 20 E LSA	231
813 Shaqadudq-S21	187	16	15 N	33 20 E LSA	228, 231
814 Sheikh el Amin	674	15	30 N	32 40 E * LSA	51
815 Sheikh Mustafa	672	15	30 N	32 40 E * LSA	51
816 Singa	133	13	9 N	33 56 E MSA	104
817 Soba	676	15	48 N	32 33 E Hi	49
818 Tagra	679	13	56 N	32 22 E LSA	1
819 Um Direiwa	392	15	40 N	32 37 E LSA	84
820 Umm Singid	79	15	58,2 N	32 37,25 E LSA	39
821 Upper Atbara hinterland	191	15	6 N	36 7,7 E LSA	228
822 Upper Atbara Valley	190	14	59,1 N	35 38 E LSA	228
823 Wadi Halfa	284	21	48 N	31 22 E PI	182
824 Wadi Hariq 01/1	282	19	12 N	27 17 E LSA	153, 255
825 Wadi Hariq 01/4	283	19	12 N	27 17 E LSA	153, 255
826 Wadi Hariq 97/5	280	19	12 N	27 17 E LSA	153

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation			
827 Wadi Hariq 97/7	281	19	12	N	27	17	E	LSA	153
828 Wadi Howar - 80/73	50	17	40	N	29	30	E	LSA	314
829 Wadi Howar - 84/1	54	17	40	N	29	30	E	LSA	314
830 Wadi Howar - 84/12-1	52	17	40	N	29	30	E	LSA	314
831 Wadi Howar - 84/13	53	17	40	N	29	30	E	LSA	233, 314
832 Wadi Howar - 84/19	51	17	40	N	29	30	E	LSA	314
833 Wadi Howar S96/5-1	194	17	10	N	26	20	E	LSA	233
834 W-Gebel Rahib	471	17	30	N	26	55	E		222
Tanzania									
835 Mumba	834	3	32	S	35	16	E	LSA	209
Western Sahara									
836 Izriten	376	28	1	N	12	28	W		27
837 Sebkh Amlal	895	23	5	N	13	29	W	LSA	236
838 Sebkh Laasailia	894	26	50	N	13	29	W	LSA	236
839 Sebkh Mahariat	896	22	16	N	16	33	W	LSA	236
840 Site F	374	27	58	N	12	49	W	N	27
841 Site H	375	27	45	N	13	43	W	camel dated from 1180+-120 bp (Ly-1.103) intrusive	27
Zaire									
842 Dimba	107	4	42	S	21	28	E *	LSA	291
843 Ishango-AB	184	0	8,3	S	29	36,2	E	LPI	230
844 Ishango-C	185	0	8,3	S	29	36,2	E	LPI	230
845 Ishango-Z-Post-Em	186	0	8,3	S	29	36,2	E	EHi	230
846 Kakontwe	105	11	0	S	26	43	E *		291
847 Kamilamba	101	7	48	S	27	1	E	IA	257, 288
848 Kiantapo	112	10	4	S	25	47	E	IA	289, 291
849 Kilulu	102	7	50	S	26	59	E	IA	257, 288
850 Malemba-Nkulu-CK	103	8	4	S	26	48	E	IA	257, 288
851 Malemba-Nkulu-KA	108	8	4	S	26	48	E	IA	288, 291
852 Malemba-Nkulu-KB	109	8	4	S	26	48	E	IA	288, 291
853 Mashita Mbanza	110	5	24	S	19	6	E *	IA	291
854 Matupi-I	126	1	13,88	N	29	49,38	E	IA	289
855 Matupi-II	861	1	13,88	N	29	49,38	E	LSA	289
856 Ngovo	106	5	18,5	S	14	55,42	E	LSA	291
Ngovo Group									

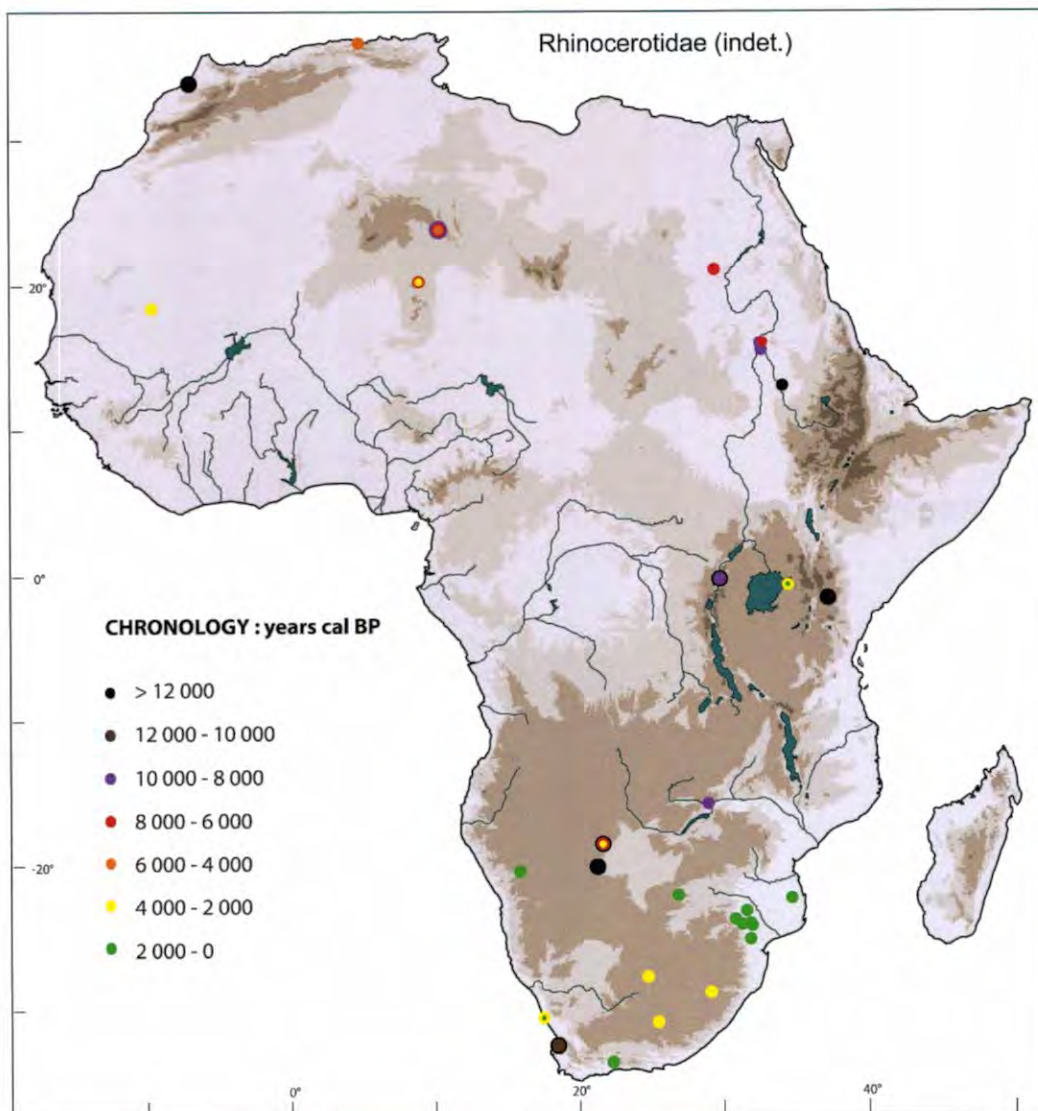
CHAPTER 3 - SITE DATA : GEOGRAPHY, ARCHAEOLOGICAL CONTEXT

N site Site	SITE N	Latitude	Longitude	*	Culture, facies, industry, chronology, notes	Citation
857 Nkile	111	0	21	0	E IA	291
858 Sanga	100	8	10	30	E IA	257, 288
Zambia						
859 Bulila	643	15	40	9	E * EIA	254
860 Leopard's Hill-NI	823	15	36	28	43 E LSA	171
861 Leopard's Hill-NII	824	15	36	28	43 E LSA	171
862 Leopard's Hill-NIII	825	15	36	28	43 E LSA	171
863 Leopard's Hill-PN	822	15	36	28	43 E LSA	171
864 Namakala	570	16	42	24	58 E EIA	237
865 Nanga	571	16	39	25	0 E EIA	237
866 Salumano	644	17	5	23	53 E EIA	254
Zanzibar						
867 Kizimkazi Dimbani	104	6	26	39	28 E IA	298
Zimbabwe						
868 Mtanye	878	21	23	29	15 E IA	148
869 Muozzi	835	18	12	32	48 E	253
870 Redcliff Cave	804	19	1	29	46 E LPI, early LSA	70
871 Ruanga Ruin	815	17	1,58	31	40,7 E LIA	96
872 Simamwe	877	21	28	29	24 E IA	148

RHINOCEROTIDAE

Rhinocerotidae (indet.)

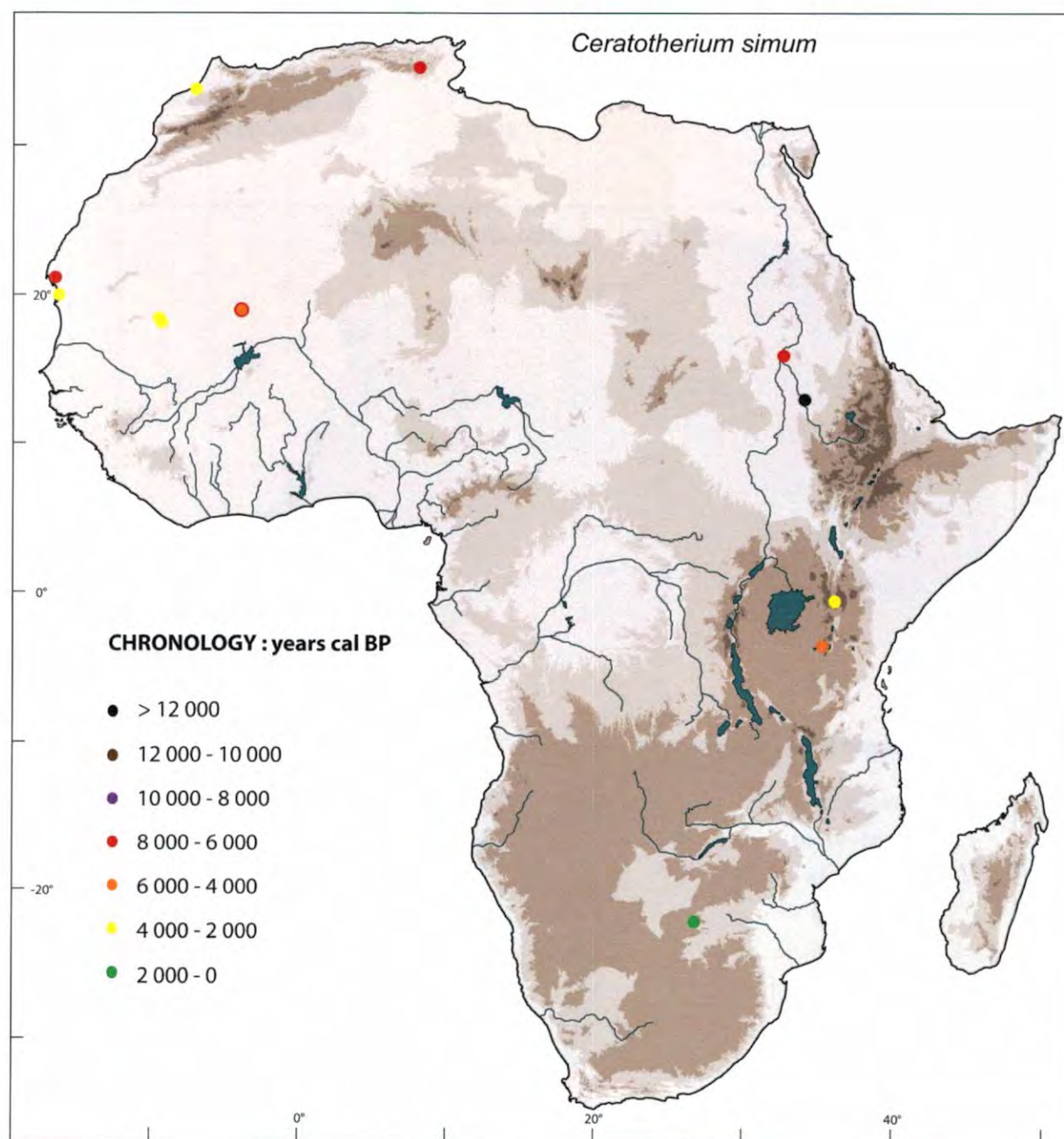
Country	Site N	Site	
Algeria	11	Guedaman Akbou	595 Eland's Bay Cave-AI
	21	Ti-n-Hanakaten	596 Eland's Bay Cave-RI
Botswana	26	Bosutwe-Mapungubwe	641 Le6
	34	Drotsky's Cave-LP	642 Le7a
	49	White Paintings RS-2b-3ab	643 Le7b
Kenya	272	Gogo Falls-I	664 Mo8
	273	Gogo Falls-II-III	673 OI20
	274	Gogo Falls-sq26-29	690 Powerhouse Cave
	279	GvJm 22-LPG	698 Riversmead Shelter III-IV
Mauritania	395	Dhar Tichitt- highest beach	713 SH16
	396	Dhar Tichitt- latest phase	717 SK17
	399	Dhar Tichitt- post beach	720 Sonkoanini Hill
Morocco	422	El Harhoura 1	721 Spoegrivier-a
Mozambique	444	Manekweni-4	773 Esh Shaheinab
	445	Manekweni-5	781 Jebel Umm Marrahi
Namibia	455	Geduld-LIA	787 Khartoum Hopital
Niger	467	Adrar Bous-T	809 Selima Sandsheet - 85/80
South Africa	566	Boomplass Cave-d	816 Singa
	587	Dikbosch 1	843 Ishango-AB
	594	Eiland Salt Works-b	845 Ishango-Z-Post-Em
			861 Leopard's Hill-NII
		Sudan	
		Zaire	
		Zambia	



Ceratotherium simum

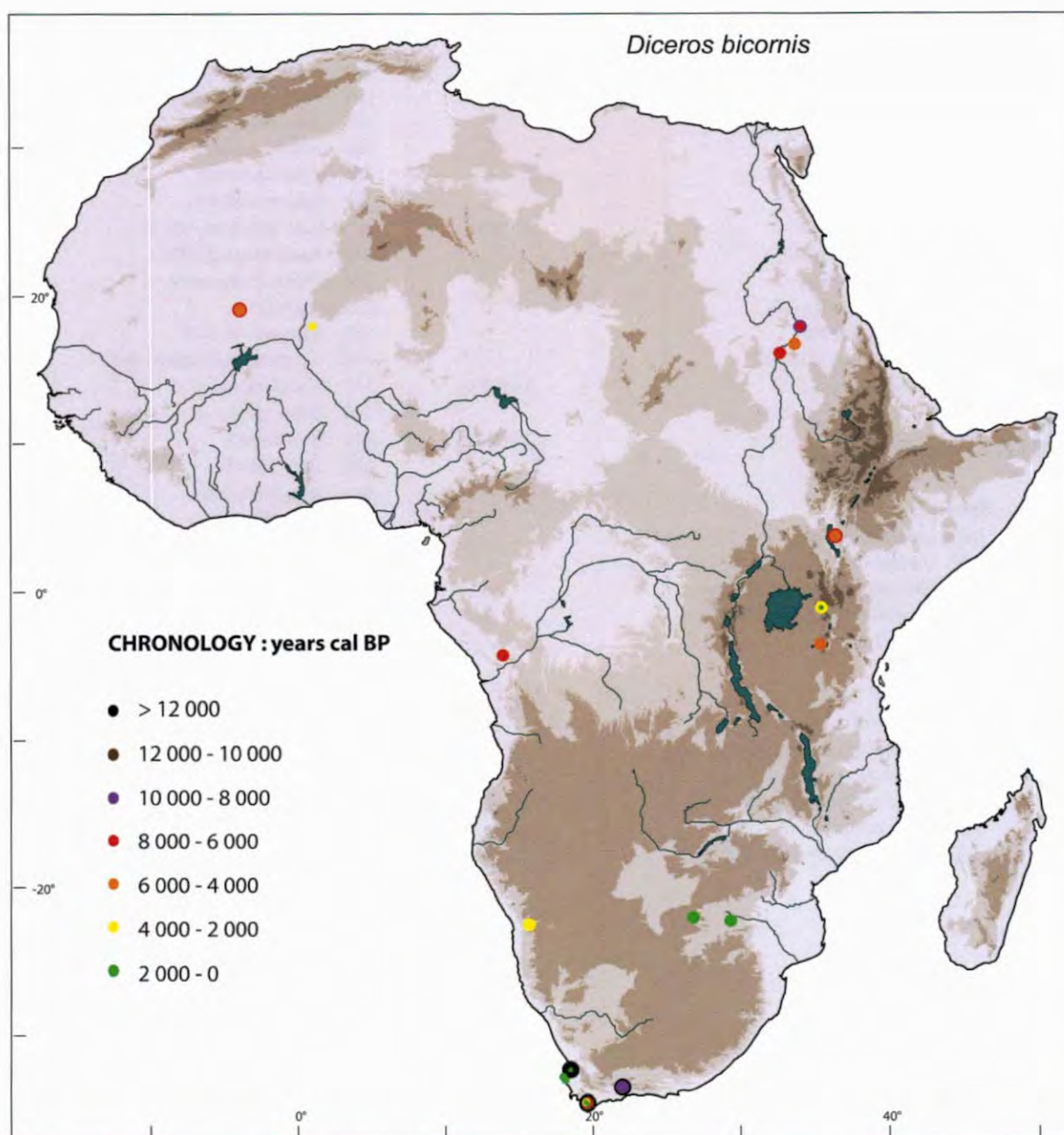
Country	Site N	Site
Algeria	7	Damous el Ahmar
Botswana	26	Bosutwe-Mapungubwe
Kenya	298	Prolonged Drift
Mali	374	Hassi el-Abiod
Mauritania	393	Berouâga
	394	Chami-A2
	397	Dhar Tichitt- lowest beach
	398	Dhar Tichitt- middle beach
	414	Tichitt - Goungou phase
Morocco	438	Kehf-el-Baroud-aven
	439	Rouazi necropolis
Sudan	755	Abu Hugar
	773	Esh Shaheinab
Tanzania	835	Mumba

*cf.



Diceros bicornis

Country	Site N	Site			
Botswana	26	Bosutwe-Mapungubwe			578 Byeneskranskop Cave 1c
Congo	87	Ntadi Yom ba-level B			579 Byeneskranskop Cave 1d
Kenya	267	GaJi1	*?		586 Die Kelders
	270	GaJi2			591 Drie Susters Main
	294	Narosura			596 Eland's Bay Cave-RI
	296	Ngamuriak			627 Kasteelberg A * intr?
Mali	374	Hassi el-Abiod			628 Kasteelberg B
	375	In Begauaen			676 Oudepost I
Namibia	454	Fackelträger			688 Pont-Drift-LKA
South Africa	568	Buffelskloof RS-a	*cf.	Sudan	738 Tortoise cave-d
	569	Buffelskloof RS-b	*?		757 Aneibis
	576	Byeneskranskop Cave 1a			765 El Kadada *cf.
	577	Byeneskranskop Cave 1b		Tanzania	773 Esh Shaheinab
					835 Mumba * ?



ORDER ARTIODACTYLA

SUIDAE

Sus scrofa

Country	Site N	Site		
Algeria	10	Grotte Capeletti	141 El-Tell el Iswid-Predynastic	
	15	Medjez II	142 El-Tell el-Iswid A	
	20	Tamar Hat	143 El-Tell el-Iswid B	
	9	Dra-Mta-el-Ma-el-Abiod	144 El-Zarkeh	
Egypt	103	Al-Ma'abda	154 Hierakonpolis HK6-Naq IC-IIA	
	112	Buto/1-3	155 Hierakonpolis HK6-Naq IIA-B	
	123	Dakhleh Oubasis, Roman	156 Hierakonpolis HK6-Naq III	
	168	Merimde Benisâlame	164 Maadi	
	191	Toukh * S.s. aff.palustris	168 Merimde Benisâlame	
Ethiopia	208	Axum-K	169 Minshat Abu Omar	
Libya	326	Hauah Fteah- Historic	170 Mons Claudianus	
	329	Hauah Fteah-Neolithic	179 Quseir al-Qadim	
Morocco	421	Bou Saria C-D	188 Tell el-Dab'a - b	
	422	El Harhoura 1	196 Tuna el-Gebel	
	423	El Harhoura 2	206 Workmen Village	
	426	Ghar-Khal IIb-V	95 Abu Sha'ar-4C	
	429	Kaf-taht-el-Ghar-A	96 Abu Sha'ar-5C	
	430	Kaf-taht-el-Ghar-B	98 Adaima-burials	
	431	Kaf-taht-el-Ghar-C	99 Adaima-habitat	
	433	Kaf-taht-el-Ghar-E	Ghana	223 Anyinam-Area A-B-C
	434	Kaf-taht-el-Ghar-F		227 Asantamanso-ASV
	435	Kaf-taht-el-Ghar-G		229 Bibease Plantation
437	Kehf-el-Baroud	231 Daboya		
Niger	438	Kehf-el-Baroud-aven	233 Esiease - A-C-D	
	466	Adrar Bous-K	245 Nyanawase/Akwamu Am.	
		Lesotho	313 Liphofung-pCW	

Sus scrofa f. domestica

Country	Site N	Site		
Egypt	100	Adaima-habitat		421 Bou Saria C-D
	102	Al-Ma´abda		425 Ghar-Khal I
	106	Berenike 95/9 Early Roman		426 Ghar-Khal IIb-V
	107	Berenike 95/97Late Roman		427 Ghar-Khal II-IIIa
	112	Buto/1-3		429 Kaf-taht-el-Ghar-A
	113	Buto-6		430 Kaf-taht-el-Ghar-B
	114	Buto-9-12		431 Kaf-taht-el-Ghar-C
	129	El Abadiya 2 North sector		433 Kaf-taht-el-Ghar-E
	130	El Abadiya 2 South sector		437 Kehf-el-Baroud
	133	El Omari	South Africa	438 Kehf-el-Baroud-aven
	135	Elephantine-necropolis		629 Kekane
	137	Elephantine-Satet temple		676 Oudepost I
	140	El-Tell el Iswid-Early Dynastic		738 Tortoise cave-d
			Zaire	857 Nkile

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