Tumulus archaeology at Sabaloka East, Central Sudan. Excavation of Site SP29 (el-Kiniasat)

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An overview of tumuli at Sabaloka East

The tumulus is a prominent feature in Sudanese archaeology; it has been recorded in many regions of north and central Sudan, distributed along the Nile and in the desert (Adams 1977, 128-129, 156-157, 197-198, 256-257, 395-397, 424-427; for further examples see Ahmed 1984; Babiker 1984; Edwards 1998). Many tumuli date to the late Meroitic and post-Meroitic periods, while others are earlier, dating to the A-group, C-group and Kerma periods. Sabaloka East is located between two areas of abundant tumuli – the Khartoum province and the Middle Nile region.

Previous research at Sabaloka East documented a large number of tumuli close to the gorge and along the wadis between the 6th Cataract and the Shendi Reach (Hintze 1959; Ahmed 1984, Babiker 1984; Geus 1984; Suková and Varadzin 2012; Nassr 2016a). Many Late Meroitic, post-Meroitic and Christian cemeteries were recorded during a

survey along the Khartoum-Atbara highway (Edwards 1998). Other surveys have reported many tumuli in Rawian, Jebel Garri and Hajar Al 'Asal (El-Sanjak 1978; Khalid 2013). These records, along with the results of a National Corporation for Antiquities and Museums (NCAM) rescue campaign begun in 2012 to the south of Sabaloka, created an impetus to initiate archaeological fieldwork focused on tumuli in Sabaloka East where the survey had documented 68 archaeological sites, including 28 tumuli sites (Figure 1).

Tumuli in the southern part of the area were identified by Khidir Ahmed between the 6th Cataract and Al-Basabeir village bordering Wad Ban Naga, during a reconnaissance for the project (Nassr 2016a). Six seasons were undertaken by the author between 2013-2018 in the area from the 6th Cataract to the north of Hajar Al 'Asal. The general methodology the project followed included exploration of the area from south to north by systematic survey; using GIS mapping, oral history and test excavations. Tumuli sites were recorded during the survey and two were tested by excavation, sites SP04 and SP29.

As demonstrated in Table 1, three main tumulus types were identified based upon the construction of their superstructures in the Sabaloka East area:

A) A large oval mound made from black sandstone. These are found on the floors of flat gullies and rocky areas, and included sites such as SP24, SP30, SP31, and SP34. The diameter of this tumulus type was between 1.7-2m, and

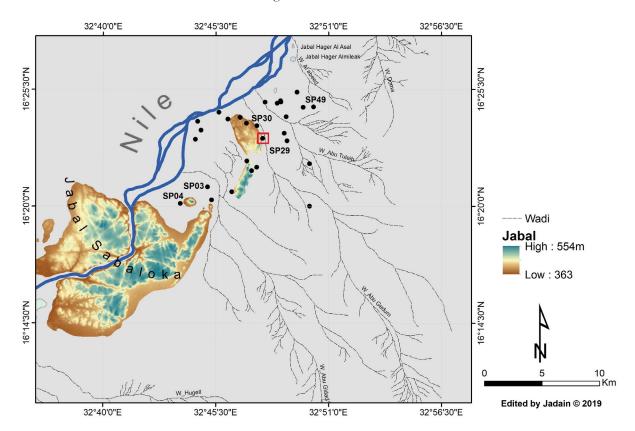


Figure 1. Archaeological tumuli sites at Sabaloka East (drawing: Jadain 2018).



in height between 1.3-2m. This type of tumulus has been well documented in central Sudan at el-Hobagi and Gabati (Lenoble 1994, *passim*; Edwards 1998, *passim*).

- B) A flat mound with a ring of stones. These were documented on the foothills of mountains and on the alluvial sediment on the banks of old depressions, and include sites such as SP04, SP14, SP29, SP40, and SP49. The diameter of this type was between 7-17m. Examples of this type of tumulus were tested by excavation, and revealed grave goods typical of late Meroitic cemeteries, such as found at Bauda and el-Kadada (Babiker 1984; Geus 1984, 34-38).
- C) A small circular tumulus formed from a slab of black stone. These were found on the top of mountains and in rocky gullies. The diameter ranged between 5-15m, and in height between 0.3-1m. Some of these tumuli had similarities to forms found in later cemeteries the box or rectangular superstructures built from stone found in Early Makurian and Christian necropoleis in central and northern Sudan (El-Tayeb 2012, 60).

Tumulus excavation at site SP29

Site SP29 was discovered in 2016 (Nassr 2016a). The site is located east of Hajar Al 'Asal in the area known as el-Kiniasat, between the el-Jebialat el-Homor Mountains and the Ab Gaidom depression, on an alluvial mound and sand dunes. The topography of the site was created by a river channel that cut through black sand and stone layers to sandy deposits. Over time, the mound was eroded by flooding and the site covered by sand. At present, the site is visible as a cluster of tumuli buried in a sandy mound on the edge of the mountain and the bank of a seasonal water channel.

Systematic survey was carried out to produce a GIS map of tumuli distribution across the site, and to measure the superstructures. Documentation and mapping show that the site has been affected by human factors, as well as being eroded by water. Ninety-seven tumuli were documented, including oval and circular tumuli, along with some box graves. The distribution map shows the cluster of tumuli in the small necropolis (Figure 2).

The site is a flat alluvial mound built on an extensive flood plain and eroded sand area. Its landscape is primarily flat, with the tumuli superstructures appearing as small mounds on the bank. Two tumuli were excavated in the 2017 season, and three more in the 2018 season. Two revealed intact grave goods of the late Meroitic period, while another had an extended skeleton similar in position to those found in medieval Christian burial traditions (Table 2).

Superstructure and shaft excavation

Many tumuli superstructures at the site have been partly destroyed by plundering, while others have been completely removed. The general shape of the superstructure was formed by single stones arranged in an egg-shaped pattern. In some cases, multiple rings of stones were observed, with one line formed from large stones surrounding the tumulus

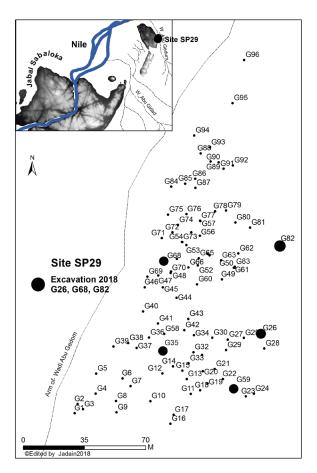


Figure 2. GIS Distribution map of tumuli at the site of SP29 (drawing Jadain 2018).

superstructure, and additional lines formed from small stones, with the intervening space infilled with small quartz pebbles, fragments of stone and sediments. The systematic survey of the site revealed the three types of tumuli superstructure discussed above.

Excavations were carried out to clean the superstructures for documentation, and to allow excavation of selected superstructures to be undertaken. Typically, the superstructure consisted of irregular rocks extending to a depth of 0.3-0.5m. In some cases they covered the centre of the tumulus, where the shaft could be found. At a depth of 0.7-0.9m, the burial shaft could be observed, and was either rectangular in shape, or semi-circular at the top, sloping inward towards the bottom. Usually, the general outline of the grave shaft could be observed through the appearance of yellow sand backfill. In some cases, a stone slab was positioned to support the superstructure, and a stone core placed to support the substructure of the chamber. The superstructure was separated from the shaft by fine sand and stones that had been laid over the descending shaft (Figure 3, Plates 1-3).

The architectural features of these superstructures are also known from late Meroitic necropoleis in the region, with parallels found, for example, at the sites of Bauda (Babiker 1984), Gabati (Edwards 1998), Jebel Umm Marrihi (El-Hassan 2006) and Jebel Sabaloka (Suková *et al.* 2015).





Plates 1-3, Figure 3. Excavation stages of tumulus superstructure at site SP29. A. Unexcavated area. B. Superstructure. C. Burial Shaft. D. Stone blocking. E. Burial niche.

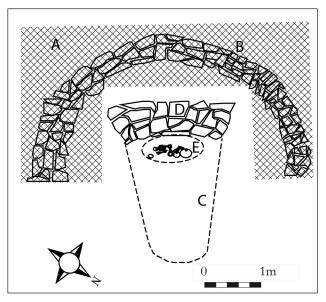
Excavation of the burial niche

Below the superstructure, a rectangular, vertical shaft with solid edges was cut into the compact alluvial sediments beneath the sandy ground and rocks, and at a depth of 1.6-1.8m, the burial niche was situated in the side of the shaft at its base, behind an oval-shaped stone blockage.

In some cases there were plundered rocks on one side of the shaft. In the lower part of these rock layers the niche (burial chamber), formed from compacted clay (mortar), can usually be found. A step separated the shaft from the niche, which in some cases was supported by a layer of stone and mortar. In four tumuli, the skeletons were found in a contracted position, laid on their right side. Overall, the skeletons did not face in a uniform direction. In the box burial, however, the skeleton was found in an extended position and, rather than having a step separating the shaft from the niche supported by stones, this was supported by large wooden beams.

Overall, the grave structures, including the superstructure, and substructures including the rectangular shaft and side niche chambers, show similarities with other tumuli from sites documented in the Sabaloka area (Suková *et al.* 2015; Nassr 2016b), as well as to those in a cemetery at Akad in the ed-Damer area (Abdelrahman 2009).





Grave goods

Grave goods were found at a depth of 0.5-0.7m, situated to the side of the burial chamber. All the burial chambers contained preserved adult skeletons in contracted and semicontracted (flexed) positions, with grave goods arranged around the skeleton. Furniture, pottery vessels and ornaments were found around the body, mainly close to the head and legs or beside the skeleton (Figure 4, Plates 4-6).

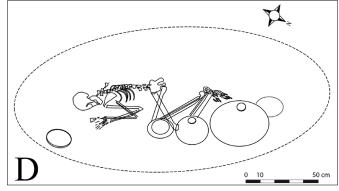
Large handmade jars, red or brown in colour, with long narrow necks, oval bodies and semi-circular bases were the main diagnostic finds in these burials. These characteristic vessels are well known from late Meroitic cemetery traditions in the region (Babiker 1984; Geus 1984, 48-49, figs 78 and 102; Edwards 1998, 53, pls 2 and 4). Other pottery vessels included large red jars with surface treatment such as a simple decoration of bands; brown bottles with a long neck; black basins; and fine red or black bowls. Apart from pottery vessels, different types of small stone beads of various shape and colour were found close to the pelvis and around the skull, arms and legs of the skeletons. An archer's loose in fine granite was found on the right thumb of one skeleton. Small personal ornaments were identified in most of the graves. Other small finds collected on the surface in the vicinity of











Plates 4-6, Figure 4. Burial chambers of the tumuli at site SP29.

the tombs included a stone bracelet, stone kohl stick, iron arrow head, iron cross and small iron ring and appear to range in date from the late Meroitic to the Medieval period (Plates 7-10).

The ceramic traditions and ornamental characteristics are typical of grave goods of the late Meroitic and early post-Meroitic at Bauda, with parallels found in tumuli Bauda 80, and Bauda 109 (Babiker 1984, 29, 72). The finds are also similar to those from other late Meroitic tumuli in the Shendi Reach, such as el-Misiaktab, Shaqalu and Gabati, with particular parallels to tumuli GBT40, GBT41, GBT42 at the site of Gabati (Edwards 1998, 24, 106, 210, 214). Artefacts from tumuli at site SP29 provided sufficient data to reconstruct the various funerary equipment deposited at the site, and indicate Meroitic, post-Meroitic and medieval Christian practices.

Conclusion

The recorded tumuli sites show the importance of the Sabaloka area from the late Meroitic through to the medieval periods. The archaeological survey yielded significant evidence for necropoleis distributed along the mountains and on the banks of wadis in the area. The surveys and excavations at the tumuli sites show many differences in superstructure, position, and shape. Tumuli monuments at most sites can be observed as ring cairns of unworked local black stone, aggregated in clusters or alone. Generally, tumuli were visible

as heaps of stone, sometimes very compacted with clay and sometimes covered with sand. Excavation of the tumuli from site SP29 revealed well-preserved grave goods, while the agglomeration of tumuli within this small area illustrates a dense occupation of late Meroitic communities in the region, shedding further light on late Meroitic, post-Meroitic and Christian occupation south of the Meroitic heartland. The discovery of such tombs and grave goods supports a deeper study of late Meroitic burial customs in the Khartoum province. The area still requires a more systematic survey in its northern part to complete the map of site distribution in the region, and excavation of more tumuli should be conducted as soon as possible, with absolute dating and anthropological analyses of human and paleo-environmental remains conducted if possible. Charcoal for radiocarbon dating and bones sampled for DNA from previous seasons have been sent for analysis. The intact burials from site SP29 further document the tumuli characteristics and distribution, and offer rich scope for future anthropological study.



Plates 7-10. Tumuli grave goods from the site of SP29.

Tables

Site ID	Height	Size	Local Name	Location	Number of	Location of tumuli	Description of tumuli
	above sea	(m)		(Section)	tumuli		
	level (m)						
SP03	383	2 x	El-dankoj 1	Wadi	12	Gentle flat plain	Mound tumuli extending from a large village with a
		1.5		Ab-Jadad			ring of stones filled with sediment.
				depression			
SP04	388	8 x 2	Umm	Sabaloka	217	Foot of mountain	Large oval tumuli extending from the mountaintops
			Marahiek	Gorge			to the flat area with some small tumuli.
SP06	379	6 x 6	El-Gibialat	El-Gibialat	76	Top of mountain	Mound tumuli on mountaintops, clusters and singles
			El-Humor	El-Humor			extending to the foot of the mountain.
			1				



SP08	384	3 x	Eid Wad	Wadi	25	Top of mountain	Small circular tumuli with black stone superstruc-
		2.5	Jamra	Ab-Jadad			ture as a kom.
				depression			
SP09	384	2 x 3	El-Gibialat	El-Gibialat	26	Top of mountain	Mound tumuli extending from the mountaintops.
			El-Humor	El-Humor			
			12				
SP13	363	3 x 2	Hajar	Wadi	44	Rocky mound	Large mound graves at the foot of the rocky mound,
			Bashier	Ab-Jadad			small mound grave at the top.
				depression			
SP14	392	3 x 3	Elidiat	Wadi	32	Rocky mound	High superstructure tumuli of sandstone, scattered
				Ab-Jadad			over a large rocky mound.
				depression			
SP15	391	4 x 4	El-Gibialat	El-Gibialat	35	Top of mountain	Complex superstructure tumuli found at the foot of
			El-Humor	El-Humor			the mountains on the west side, and some circular on
			1				the top.
SP16	392	3 x	El-Gibialat	El-Gibialat	17	Top of mountain	Rocky mound tumuli along the mountaintops.
		3.5	El-Humor	El-Humor			
			2				
SP17	400	3 x 3	El-Gibialat	El-Gibialat	7	Top of mountain	Oval tumuli cluster in the northern part of the
			El-Humor	El-Humor 1			mountain.
			3				
SP21	391	1 x	El-Gibialat	El-Gibialat	8	Foot of mountain	Mound tumuli west of the mountain with stone ring
		1.5	El-Humor	El-Humor			superstructure and oval mound.
			5				
SP22	390	2 x 2	El-Gibialat	El-Gibialat	15	Gentle gulley	Circular tumuli of black stone.
			El-Humor	El-Humor			
			6				
SP23	392	3 x	El-Gibialat	El-Gibialat	13	Gulley	Mound tumuli scattered on the large gulley.
		2.5	El-Humor	El-Humor			
			7				
SP24	385	1 x	El-Maslaha	Hajar	14	Gentle gulley	Mound tumuli with complex stone superstructure.
		1.5		Elasal			
SP28	378	1.5	Jebel Karkar	Hajar	18	Top of Mountain	Mound tumuli extending on mountaintop and into
		x 1		Elasal			the agricultural area.
SP29	389	3 x	El-Kiniasat	Hajar El-	97	Flat alluvial plain	Oval mound tumuli with stone rings on the high
		2.5		Asal			sediment elevation on the bank of the Ab Gaidom
							depression.
SP30	397	4.5 x	Qalaat	Hajar El-	83	Foot of mountain	Large mound tumuli, close to the mountains on the
		3.5	Omer	Asal			rocky area.
SP31	394	2.5	Hilaat El-	Hajar El-	47	Top of mountain	Mound tumuli covered in black stone. Some very
		x 2	Sadab	Asal			large and high.
SP32	376	2 x	Jebel Elba-	Hajar	34	Top of mountain	Mound tumuli at the curved line of the Elgibialat
		1.5	blos	Elasal			Elhomor extension.

SP34	389	6 x 3	Qalaat	Hajar Al-	33	Gulley	Mound tumuli with rocky superstructure.
			Homiad 2	Asal			
SP35	400	8 x 2	Qalaat	Hajar Al-	17	Top of mountain	Cluster of mound tumuli with rock superstructures.
			Homiad 3	Asal			
SP36	390	5 x 3	Qalaat	Hajar Al-	47	Foot of rocky	Large tumuli mounds over the rocky mound, some
			Homiad 4	Asal		mound	of them disturbed.
SP39	366	8 x 6	Elkafonja 2	Hajar Al-	9	Gulley	Tumuli mounds over the large rocky area.
				Asal			
SP40	375	5 x 5	Jebel El-	Hajar Al-	6	Top of mountain	Circular tumuli scattered over the mountain.
			Miliak	Asal			
SP45	381	1.5 x	El-Bankari	Hajar Al-	14	Top of mountain	Circular tumuli found over the mountains, most of
		1.5	4	Asal			them robbed.
SP46	400	1.7 x	El-Bankari	Hajar Al-	5	Foot of rocky	Box tumuli found on the rocky mound east of El-
		1.5	5	Asal		mound	Bankari village.
SP47	381	4 x	El-Bankari	Hajar Al-	7	Top of small rocky	Cluster of tumuli on the mountain with some settle-
		3.5	6	Asal		mound	ment remains close to the depression.
SP49	399	2 x	El-Bankari	Hajar Al-	16	Foot of mountain	Large oval tumuli on the mountain with some
		1.5	8	Asal			circular tumuli, different in size and superstructure
							elevation from the surrounding examples.

Table 1. Archaeological sites of tumuli documented in the Sabaloka East from 2013-2018.

Grave No	Diameter	Height	Shaft size	Niche	Depth	Skeleton position	Skeleton	Furniture
and season	m	m	m	size m	m		gender	
G32-2017	9x7.3	0.4	3.16x 8.3	1.6x1.2	2.32	Contracted position	Male	Big red jar, brown bottle with long
						(flexible)	(Adult)	neck, two black basins, fine red jar,
								stone beads and archer's loose from fine
								granite.
G35-2017	5.3x3.7	0.3	2.8×1.2	1.5x	2.5	Typical contracted	Female	Three red jars with long neck, small
				1.15		position	(Adult)	mouth, fine black bowl and beads.
G26-2018	5.8x5.3	0.1	3.65x	1.4x6.3	2.18	Semi-contracted	Male	Three big jars, small black basin and
			2.2			position	(Adult)	bowl with a fine surface.
G68-2018	6x4.8	2.5	2.35x	1.5x5.6	2.38	Semi-contracted	Female	Small differently coloured and shaped
			1.8x0.5			position	(Adult)	beads, nose clip.
G82-2018	2.9x1.3	0.5	2.7x1	2.35x	2.4	Extended position	Male	Large red jar.
							(Adult)	
				3.6				

Table 2. Tumuli excavated from the site of SP29.



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