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Front cover: Village on the Island of Dirbi in the SARS concession above the Fourth Nile Cataract (photo: D. A. Welsby).
The 4th Season of the SARS Anglo-German Expedition to the Fourth Nile Cataract

Pawel Wolf and Ulrike Nowotnick

General results

In the last season of our mission to the Fourth Nile Cataract, efforts were directed towards the central part of the SARS concession. Fieldwork focused on three islands, Umm Mereigit, Umm Balla and Midaimir, as well as on a 3km long stretch of the left bank west of Hadiab village (Plate 1). The three islands are separated from the left bank by seasonal channels which in some places still retain water into November/December. The landscape of the islands does not differ very much from the mainland – gneiss outcrops, wadis of varying size and silted alluvial plains near the river bank. These plains and channels make the islands suitable for farming, as soon as the water level drops after the inundation. The local Shaigiyas still cultivate some of these locations using seasonal dwellings during sowing and harvesting. Some of these places have been used for several generations and have thus been documented by our team (e.g. sites 3-N-85, 88, 207). However, the picture must have changed considerably since the Medieval period. Medieval and Kerma occupation remains (sites 3-N-120, 121, 124, 126, 140, 147-149, 204), box-grave cemeteries (like sites 3-N-129 and 205) and many crevice graves amongst the rocky outcrops indicate that a chain of small hamlets must have existed along the river banks of the islands during pre-Islamic periods. Notably, most of the few rock-art sites with Medieval period markings and camel representations, as well as several rock-gongs, were concentrated within the outcrops adjacent to these sites (see Kleinitz, this volume).

We conducted surface clearings at one of the Medieval occupation sites (3-N-140) and two occupation areas with Kerma pottery (sites 3-N-196 and 3-N-217). In addition, we tested several graves at the Kerma cemeteries 3-N-340 and 3-N-271 (see below). We completed the fieldwork with trial excavations of specific occupation features such as stone pavements at sites 3-N-333 and 3-N-351, a detailed rock-art survey (see Kleinitz, this volume), a survey recording the distribution of linear stone structures – dams (see Welsby, this volume), stone lines and dry-stone walls, as well as tethering stones. A rather unexpected find during the survey was the discovery of the most complex gravel feature in the concession. It had been made by the children of Gamra village (Plate 16).

A number of Neolithic occupation sites and workplaces were located on the seasonal islands, as well as on the adja-

Plate 1. Map of the surveyed area (labelled sites are referred to in the text).
Cemeteries of the Kerma tradition are fairly abundant in the surveyed area, both on the islands and on the left bank. Frequently we found different types of tomb monuments at the same location, ranging from ring tumuli and tumuli clusters, to dome graves and crevice graves among rock boulders. Their absolute dating often remains uncertain. Almost all of these cemeteries were looted, some evidently very recently; hence, we dated these cemeteries on the basis of scattered potsherds. Most of them may originate from the Kerma Moyen period. These cemeteries, with tumuli of type FT04, were usually located on hilltops and outcrop ridges. Their superstructures, usually not exceeding 15 in number, might also represent the ruins of destroyed dome graves, or vaulted chambers of types FD01-04. The most impressive burial place of this kind was site 3-N-340 at el-Aterein, with more than 90 graves, situated on top and on the slopes of a 20m high basalt plateau (see below).

Most of the rock art in the area, representing mainly cattle, is spatially related to these Kerma tradition cemeteries indicating a possible date for most of those rock engravings within that period—a suggestion which is supported by the cultic significance of cattle within Bronze Age cultures, particularly in the Kerma horizon.

Many more cemeteries in the area consist of New Kingdom period to Napatan clusters of semi-dome and crevice graves atop outcrop ridges and upon their slopes. Using natural rocks to form a part of the grave substructure, they display a variety of forms such as crevices, semi-domes, alcoves, or rock nests. Occasionally, tumuli of type FT04 were erected on top of the same mound. Local handmade Kerma wares and wheel-made variants of similar types, as well as Napatan amphorae fragments lying among scatters of human bone, suggest continuous use of these burial grounds into the New Kingdom/Napatan periods. Medieval potsherds indicate a reuse of such localities for pottery deposits (cf. Wolf and Nowotnick 2006, 30f; Nowotnick and Tsakos, forthcoming). Larger Kerma tradition cemeteries with 30-70 graves are rare within the surveyed region. They are situated on and around prominent outcrops as at site 3-N-110, Jebel Umm Balla and sites 3-N-372/373 near Hadiab village. They are often spatially associated with rock-art panels (see Kleinitz, this volume).

Another type of Kerma tradition graves is represented by cluster cemeteries. Between 10 and 20 stone tumuli are densely clustered together, on slightly elevated gravel terraces. All of these tombs had been heavily looted, revealing masses of Kerma Classique pottery, imported Egyptian wares, and fragments of ostrich eggshell and of polished stone bracelets. Our test excavations at cemetery 3-N-271 confirmed that these graves date to the Kerma Classique, or later periods (see below).

In close proximity to the Kerma burial grounds we located a relatively large number of occupation sites of that period. Remarkable amounts of worn Kerma potsherds were scattered over large areas on gravel terraces, or on the alluvial plains, sometimes protected by low outcrop ridges—places suitable for hamlets and small settlements. A few irregular stone settings were the only visible structures on the surface. However, the test excavations at two of these places were less satisfactory. At both sites 3-N-196 and 3-N-217 our surface cleaning of up to several hundred square metres did not reveal distinct archaeological features, such as post-holes, stone-settings, or fire places. Most likely, the occupation horizons have been utterly eroded over the past millennia, leaving only numerous finely decorated and coarse potsherds, lithic tools and debitage, grinding stones, burned animal bones and ostrich eggshell fragments.

Unambiguous Meroitic and post-Meroitic remains are fairly scarce in the surveyed region. Despite this infrequency, a large tumuli field of 65 FT05 and FT06 superstructures is situated at el-Aterein (site 3-N-160). This cemetery is typically situated on a wide alluvial plain, probably a former branch of the Nile, showing the preference for softer grounds which facilitated excavation of deeper substructures. Low dry-stone walls extend from some of the tumuli in various directions occasionally linking some of them—a feature also known from other post-Meroitic cemeteries at the Fourth Cataract.

Another major site type in the area is Medieval settlements. Located in flat gravel plains close to the river bank or adjacent to wadis and kheeran, these sites display various kinds of stone constructions, low stone walls or circles, semicircular structures against boulder outcrops, or irregular settings. The surface between these possible hut remains is littered with worn Medieval pottery, including domestic wares and cooking pots, with a few fine-ware fragments, spindle whorls, grinding bases and hammer stones. To gain a better understanding of such settlements, we chose one of them for surface cleaning. It revealed partially preserved Medieval compounds with jaluqe-houses (see site 3-N-140 below). Several box-grave cemeteries are situated on similar spots nearby.

### Medieval occupation at site 3-N-140, Umm Mereigít

The Medieval settlement site 3-N-140 is one of several occupation places along the river bank of Umm Mereigít.

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4 The type designations within this report refer to the MDASP type series, which will be published by Borowski and Welshy in the proceedings of the conference: *Archaeology of the Fourth Nile Cataract – Merowe Dam Archaeological Salvage Project*, Cologne, 13–14 July 2006.

5 Types FD03-FD04 and FR01-FR02.

6 This is confirmed by C14-dating undertaken by the Gdańsk mission (H. Paner, pers. comm. 2006).

7 Cf. site 3-O-1 (Welshy 2003a, 19f and fig. 2.17; 2003b, 28f) and site 4-M-53 (Welshy 2005, 5).
We chose the site for test excavations because its surface features seemed better preserved and were less covered by sand and silt than similar occupation areas elsewhere. The central part of the site appeared to contain remains of dwellings in a small rural hamlet (Plate 2). Box-grave cemetery 3-N-129, with about 50 graves, might have belonged to this community. The farming areas must have been the alluvial plains to the north and the south of the settlement. They are situated on a lower level and are still used for agriculture by the local Shaigiya. The northern part of the site was unfortunately destroyed by recent farming. Several threshing floors (taqat) are situated within the outcrops in the vicinity. They are now used by the locals, but may have been used during the Medieval period. There is hardly any rock art close by, but a couple of rock gongs may be found within the outcrops immediately to the east of the settlement (C. Kleinitz, pers. comm. 2007). Close to the south-westernmost surface features of the hamlet, a wide pebble bank revealed several large pits which seemed to have been dug recently. Our workmen informed us that the locals dig there for gold, which, if true, would certainly have been the case in former periods as well.

We cleared several areas, 750m² in total, focusing on areas with visible surface remains of stone alignments. Remarkably, almost none of these surface structures resembled the archaeological contexts below ground. Instead, our clearings revealed the remains of five house compounds. The jalus walls were about 300-400mm thick and were reinforced by stone slabs and small boulders in several places, but without foundations (Colour plates XIX and XX). We did not find any substantial post-hole settings.

Preliminary conclusions, based on the surface cleaning, suggest that the settlement grew irregularly. It consisted of houses comparable to those of other rural settlements of the Medieval period at the Fourth Cataract. Houses and compounds follow a rectangular pattern. The general layout of the living units resembles the traditional bipartite unit of an anteroom and a chamber (Plate 3). The relatively thin walls were obviously not strong enough to hold a second storey.

Unfortunately, only the layout of two compounds was completely preserved. Compound 1600 consisted of two large courtyards accessible from the south west and a rectangular room set into the north-western courtyard (Plate 4, Colour plate XIX). Within compound 1000, smaller compartments are grouped around a central courtyard which was built against a large gneiss outcrop (Plate 5, Colour plate XIX). The entrance was from the south west, leading into a forecourt and

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8 According to Adams, jalus was used as building material in the north not before the 17th century AD (Adams 1994, 233 and n. 4, 246; see also Fitzenreiter 1999, 154). However, in the town at Kerma jalus was utilized since the Kerma period for fortifications and similar constructions.
9 Cf. settlement 3-Q-62 near Turkab (Wolf and Nowotnick 2005a, 192 and fig. 11).
then into the large central courtyard. A terrace facing the river was constructed to the west of the outcrop and reinforced by large boulders up to 2m in length (Plate 6). Two semi-circular stone-settings with jalous-walls abut the south-western face of the outcrop - probably a kind of seribat for small livestock, since one of them was filled with dark brown dung. A cooking place consisting of large broken doka-sherds set in a circle, 900mm in diameter, was found directly next to the outcrop within the larger compartment to its north west (Plate 7).11

Some of the rooms contained a brown dung-like material. By comparison with recent habitations, these might have been stables for small livestock, since no separate seribat have been found.12 Fireplaces, consisting of ash and burned clay and sometimes charcoal, were preserved in several rooms.

Larger pottery fragments were associated with some of these cooking places. In general, we found a small number of jars, bowls, plates and dokas of mostly common forms, dating the settlement into the early to classic Christian periods (c. AD 600-850) (D. Baginska, pers. comm. 2007). Several complete pots were in situ, set into the floor level of the courtyards next to the house walls (Plate 8). Other artefacts were grinders and a notably large number of hammer stones.

Kerma Cemetery 3-N-340

Site 3-N-340, certainly the largest and most impressive Kerma cemetery recorded within the western part of the SARS concession, is situated at El-Aterein, half a kilometre to the south of Umm Midaimir Island. The surrounding territory is characterised by wide wadis and alluvial plains, only rarely separated by smaller gneiss outcrops. In the midst of this rather gentle terrain, a high basalt ridge extends for about 400m in a north-easterly direction (Plate 1). Its central plateau of c. 100 x 15m is delimited by small natural outcrops and boulders. Being 20m high, it must have represented an impressive landmark throughout all periods of
human occupation in that region (Colour plate XXI). Even today, our local workmen told bizarre stories about ghosts and strange phenomena occurring in the vicinity of that place. A Neolithic site occupies the southernmost part of the ridge, possibly a hilltop hunting station.

The highest plateau shows almost no traces of building activities and was evidently cleared of larger stones and boulders. However, the adjoining outcrops and gentle slopes are covered by a prominent burial ground of no less than 90 tumuli and some crevice graves. Kerma pottery is scattered among the graves of site 3-N-340, indicating that most of them have been looted. Different areas of the cemetery display different types of tumulus superstructures – probably a matter of preservation and of the available building material, rather than of cultural traits. While the upper tumuli are freestanding stone monuments 1m in height (type FC01), the graves on the gravel slopes are covered by flat gravel tumuli with a stone kerb (FT01a-c).

The main platform - deliberately left free to form an open space which is delimited by stone tumuli - obviously represents an extraordinary layout of yet unknown significance. Its cultic atmosphere is furthermore supported by numerous rock-art depictions. Mainly cattle, but also anthropomorphic representations, dogs, antelopes, and camel motifs are found among other forms. The pictures are engraved into the outcrops and on smaller boulders used for the erection of the tumuli. The basalt ridge, having smooth rock faces, is especially suited for rock art. In addition to the usual pecked engravings, fine-line incisions representing cattle and other motifs were found by C. Kleinitz at several spots – a rock-art style hitherto unknown in the Fourth Cataract region (see Kleinitz, this volume).

We tested three tumuli at site 3-N-340 to establish a more precise date for the rock engravings. Unfortunately, all of these graves were completely destroyed and looted. Thus, the Kerma potsherds scattered within the cemetery remain the only means of dating. One of the tested graves, tumulus 17, had several rock engravings of bovines on the bedrock beneath it. Its superstructure, a tumulus of type FT04 or FD01, was comprehensively destroyed by robbers, who had redeposited most of the stones into the former grave after its looting. The burial chamber, a crevice covered by up to 1.5m long basalt slabs, did not contain any artefacts except for a few bone fragments within wind-blown sand (Plate 9). Most important, however, was that the bovines engraved on the bedrock had most likely been covered by the original tumulus’ superstructure, providing a terminus ante quem for the rock engravings. The Kerma date of the cemetery, based on the form of the grave structures and the surface pottery, indicates that the rock pictures must be from that period, or earlier (see Kleinitz, this volume).

**Kerma Cemetery 3-N-271**

Cemetery 3-N-271 is an example of the so-called ‘cluster cemeteries’ situated about 250m inland opposite Umm Mereigit Island (Plates 1 and 10), an area densely scattered with occupation places and burial grounds of the Kerma and also of the Medieval period. The remains of about nine heavily-disturbed stone tumuli are clustered together on a gravel slope next to three outcrop ridges full of crevice, semi-dome and tumulus graves. The relation of these two burial grounds remains unknown. Both are heavily looted and have a large number of potsherds on the surface: late Kerma types, local wheel-made specimens and imported Egyptian wares.

To the east of the grave cluster, several robber pits revealed human bones of children and adolescents. In the hope of finding less disturbed burials we concentrated our efforts on this part of the cemetery. We discovered another seven graves without obvious superstructures and a number of empty pits of unknown function (Plate 11).

The substructures of these graves were made of rectangular boxes of upright stone slabs. These cist graves were roughly 600 x 400mm in size and generally oriented north-
south. Most of the graves were heavily looted, yielding some pottery fragments and bones of young individuals. Thus the children of the community were buried slightly apart from the main burial ground. Grave F4 still preserved remains of its superstructure - a small circular stone tumulus c. 1m in diameter with the lower stone courses embedded in a mud mortar - covering the burial. The excavation of the small stone cist revealed a small child’s skeleton in contracted position, head towards the north, facing west (Plate 12). The child’s right hand was positioned underneath its head, whereas its left arm remained by the left side. Six small faience pendants in the shape of uraei were aligned around the child’s neck, probably belonging to a necklace (Plate 13). Two rather coarse Kerma bowls were placed inside the grave. A bowl with incised cross-like pattern below its rim was placed directly under the body of the child, whereas a small black-topped red-burnished bowl was placed in the lower right corner on the bottom of the pit. The Egyptian jewellery together with local handmade vessels presents an interesting mixture of traditional elements and northern influences from the Egyptian New Kingdom. To the south of the Third Cataract the persistence of ancient indigenous practices is evident throughout the New Kingdom and later times, thus a post-Kerma date for this cemetery cannot be ruled out.13

Trials excavations at sites 3-N-333, 3-N-336 and 3-N-351

During the 2005/06 season we had tested circular and oval stone ‘pavements’ of c. 1-1.5m in diameter.14 This season, we uncovered a number of similar pavements,

13 Similar cist burials, in a tightly nucleated cemetery, were excavated by the Peruvians further to the east in the SARS concession at site 4-L-100. The cemetery appears to have been in use during the 18th Dynasty (pers. comm. I. Welsby Sjöström).

14 See Wolf and Nowotnick 2006: 30; cf. Welsby 2005, fig. 2 type V; Paner and Borcowski 2005: 104 and fig. 26 no. 2.
sited on a higher gravel plateau south-west of Hadiab village. No obvious settlement sites have been recorded within this archaeologically rather poor area and the pavements also do not show any association with the few burial places in the vicinity. We excavated three pavements at sites 3-N-351 and 3-N-333, as well as two so-called 'Steinplätze' at site 3-N-336 (Plate 1). Among the tested platforms, we recorded two types, both representing circular to oval pavements of roughly 2m in diameter. One type, equivalent to type P01, was made of a single layer of slabs about 200mm in size (3-N-333, F1 and 3-N-351, F1, Plate 14). The other type consisted of fist-sized stones and pebbles and, like type P04, it was surrounded by a kerb of larger slabs (3-N-333, F4, Plate 15). Again, we could not find any archaeological features such as post-holes or pits associated with the pavements - neither pottery, charcoal, nor any other artefacts. The platforms were simply paved on top of the gravelly ground, without any additional building activities like seribat, rakubat etc. The bedrock beneath these pavements did not show any evidence for cooking, or heating (cf. Wolf and Nowotnick 2006, 30). Consequently, their explanation as cooking places is unlikely.

The two 'Steinplätze' at site 3-N-336 are irregular concentrations of quartz and gneiss stones with a diameter of 600-900mm. In contrast to structures of types P01-P04, their outer limits are not regular. Instead, the concentration of stones simply decreases. The stones of one of them were embedded within a thin layer of ash, mixed with a little charcoal, indicating a cooking place, or fireplace of unknown date, since we did not find any associated potsherds or other datable artefacts.

Bibliography


Schiestl, R. 2006. ‘Comments on the two Egyptian jars found at Tomb no. 1 of site 3-Q-94’, Sudan & Nubia 10, 32-33.


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Colour plate XIX. AKSW. Plan of the central part of the Medieval settlement 3-N-140.

Colour plate XX. AKSW. Panorama of settlement 3-N-140 after the surface cleanings.

Colour plate XXI. AKSW. Panorama of site 3-N-340 from the north.