

SUDAN & NUBIA

The Sudan Archaeological Research Society



Bulletin No. 19

2015





SUDAN & NUBIA

The Sudan Archaeological Research Society



Bulletin No. 19

2015

Contents

Kirwan Memorial Lecture

- Meroitic royal chronology: the conflict with Rome and its aftermath 2
Janice W. Yellin

Reports

- Middle Stone Age and Early Holocene Archaeology in Central Sudan: The Wadi Muqadam Geoarchaeological Survey 16
Rob Hosfield, Kevin White and Nick Drake
- Newly Discovered Middle Kingdom Forts in Lower Nubia 30
James A. Harrell and Robert E. Mittelstaedt
- The Pharaonic town on Sai Island and its role in the urban landscape of New Kingdom Kush 40
Julia Budka
- In a Royal Cemetery of Kush: Archaeological Investigations at El-Kurru, Northern Sudan, 2014-15 54
- Introduction 54
Geoff Emberling, Rachael J. Dann and Abbas Sidahmed Mohamed-Ali
- Cultural Heritage at El-Kurru 54
Abbas Sidahmed Mohamed-Ali
- Documentation and Conservation of the Painted Tombs: Progress Report 57
VII and XRF Analysis of the Painted tombs
Rikke Therkildsen
- Visualizing the Painted Tombs 58
Sarah M. Duffy
- Excavation of Pyramid Ku. 1 60
Geoff Emberling
- The Pyramid Chapel Decorations of Ku. 1 63
Janice W. Yellin
- A Mortuary Temple at El-Kurru 65
Geoff Emberling
- Meroitic Graffiti in the Mortuary Temple 67
Sebastian Anstis
- Some Remarks on Stonemasons' Marks in the Mortuary Temple 68
Tim Karberg
- Conclusions and Prospects 69
Geoff Emberling, Rachael J. Dann and Abbas Sidahmed Mohamed-Ali
- The Qatar-Sudan Archaeological Project – Excavations and other activities at Kawa in the 2014-15 season 71
Derek A. Welsby

- The Meroitic Palace and Royal City 80
Marc Maillot
- The Qatar-Sudan Archaeological Project at Dangeil Satyrs, Rulers, Archers and Pyramids: A Miscellany from Dangeil 2014-15 88
Julie R. Anderson, Mahmoud Suliman Bashir and Ribab Khidir elRasheed
- Dangeil: Excavations on Kom K, 2014-15 95
Sébastien Maillot
- The Meroitic Cemetery at Berber. Recent Fieldwork and Discussion on Internal Chronology 97
Mahmoud Suliman Bashir and Romain David
- The Qatar-Sudan Archaeological Project – Archaeology and acoustics of rock gongs in the ASU BONE concession above the Fourth Nile Cataract, Sudan: a preliminary report 106
Cornelia Kleinitz, Rupert Till and Brenda J. Baker
- The Qatar-Sudan Archaeological Project – The Meroitic Town of Hamadab and the Palaeo-Environment of the Meroe Region 115
Pawel Wolf
- The 2015 Season of Excavations at Kurgus 132
Andrew Ginns
- Plant Macro-remains Recovered from El-Hamra Christian Complex Excavation in El-Ga'ab Depression, Sudan 143
Ikram Madani, Yabia F. Tahir and Hamad M. Hamdeen
- QSAP Dam-Debba Archaeological Survey Project (DDASP). Preliminary Results of the second season 149
Fawzi Hassan Bakhiet
- Archaeology at Selima Oasis, Northern Sudan – recent research 161
Friederike Jesse, Coralie Gradel and Franck Derrien
- Results from the re-investigation of Henry Wellcome's 1911-14 excavations at Jebel Moya 170
Michael Brass

Miscellaneous

- Obituary 181
Denver Fred Wendorf, Jr. (1924-2015)
Romuald Schild

Front cover: QSAP Dam-Debba Archaeological Survey Project. Site DS7, Ganati: the re-erected columns in the church (photo: Fawzi Hassan Bakhiet).

Sudan & Nubia is a peer-reviewed journal



Kirwan Memorial Lecture

Meroitic royal chronology: the conflict with Rome and its aftermath

Janice W. Yellin

Introduction

The Meroitic state was flourishing at the end of the 1st century BC to the first half of the 1st century AD.¹ Royal burials under large pyramids, although plundered, have yielded Graeco-Roman objects that speak of wide contacts with the Mediterranean world. New features in royal pyramid architecture and chapel decoration as well as the resumption of royal burials at Jebel Barkal speak of cultural and political changes² under Meroitic kings and queens. These rulers were politically, militarily and economically active in Nubia and might have established a Kushite province with its center at Faras (Török 2014). Their Nubian policies included military skirmishes with the newly established Roman rulers of Egypt that culminated in open conflict with the Roman Governor, Petronius, in 24/25 BC and in the Treaty of Samos with Augustus in 21/20 BC (Eide *et al.* 1998, nos 190, 204 and 205).

There is uncertainty regarding the specifics of Meroe's history during this period. The names of King Teriteqas,³ Queen Amanirenas, Queen Amanishakheto, Queen Nawidemak and Akinidad, the *pqr* who served all but Queen Nawidemak, are given on contemporary Meroitic monuments and in inscriptions.⁴ There are royal pyramids at Meroe (Figure 1), (Beg. N. 13, Beg. N. 20, Beg. N. 6, Beg. N. 21 and Beg. N. 2), the capital, and at Jebel Barkal (Figure 2), (Bar. 2, Bar. 4, Bar. 5 and Bar. 65) an important administrative and religious center

¹ Dates and spellings of royal names are taken from Rilly (2010, 187-188).

² Based on what appears to be the Meroitic practice of establishing and maintaining family burial grounds, the resumption of royal and elite pyramids at Jebel Barkal as well as continuation of burials at Meroe in the same period suggest periodic changes in ruling families (Yellin 2009, 11-15).

³ The paleography of Teriteqas's inscriptions are identified by Rilly (2004) as belonging to the late 1st century BC (transitional B2) – the period of the conflicts with Petronius.

⁴ I.e. the Meroitic inscriptions from Dakke (Leclant *et al.* 2000a, REM 0092) and Hamadab Stele (Leclant *et al.* 2000c, REM 1003) among others. However, Rilly (2004) raises some doubts as to whether Aromeyose can be read as Rome in Amanirenas's inscription on the Hamadab Stele and thus as to whether this inscription can be used to identify her as the queen who fought with Rome.

⁵ Other Barkal pyramids in the north cemetery, such as Bar. 1 and Bar. 3, are not royal based on the iconography used for their chapel decorations.

where royal burials resumed after a hiatus and which, based on their architecture and decorations, belong in this time period. Of these, only two have securely attributed owners, Queen Amanishakheto (Beg. N. 6) and Queen Nawidemak (Bar. 6), both dated to the first half of the 1st century AD. Bar. 5, which is not royal, is included in this study because there are elements of its chapel reliefs that are similar to contemporary royal ones. To better understand the history of this interesting epoch, the iconography of these chapels will be interrogated to hypothesize a sounder relative sequence for these pyramids and more plausible attributions of ownership.

Because there are so few secure dates associated with Meroitic royal monuments, the sequence and dating of Meroe's kings' list have been developed by associating a ruler with monuments, often the unattributed royal pyramids at Meroe and Jebel Barkal.⁶ The foundational relative sequence for Meroitic rulers was proposed in 1923 by Reisner (1923) based on his typology of the royal pyramids' architecture, the desirability of their locations in their cemeteries and the dating of objects found with them. Over the succeeding decades his sequence has seen relatively few suggested revisions, but there have been frequent reassignments of unattributed pyramids to rulers whose names, but not burial places, are known.⁷ The various attempts to create a sounder Meroitic royal chronology, while sometimes upending previous attributions and dating of rulers, have also affirmed that some of them withstand scrutiny and so continue to be plausible. Conversely when a chronological suggestion fails to hold, this 'failure' is still useful because it redirects attention to where greater plausibility lies. In the absence of data that allows for certainty, the relative sequence and attributions presented here, of necessity seek to discover where this occurs.

Iconography of chapel decorations as a tool for attributing and sequencing their pyramids: Our understanding of Meroitic chronology, and thus to some extent its history, rests to a degree on the typologies of its architecture (i.e. Reisner 1923; Hinkel 1984), paleography (Hintze 1959; Rilly 2001; 2004) and visual iconography (i.e. Wenig 1964; 1971; 2015; Yellin 1995; 2009; 2014a). These place specific classes of monuments and objects in a relative sequence based on shared characteristics that disappear or change over time. Typologies are most useful when some of their objects can be dated. Using typologies for dating is not without its challenges. Most notably when, for whatever reason, one or more of the objects or inscriptions being used does not follow the pattern or trajectory identified as the basis for the typology's chronological arc. This challenge can be mitigated by comparing results from different types of typological studies. When such a comparison is conducted (in concert with whatever

⁶ For a fuller discussion of this situation see Yellin 2014a, 76-77.

⁷ I.e. Dunham 1957; Eide *et al.* 1994; 1996; 1998; Hofmann 1971; 1978; Török 1997, 200-206; Welsby 1996, 207-209; Wenig 1971; Zibelius-Chen 2006, 207-209. Most recently, by re-thinking the criteria for using the forms of Meroitic cursive letters as a dating criterion, Rilly (2004) has created a potentially more reliable dating method by identifying paleographical changes over time and in specific geographical areas.

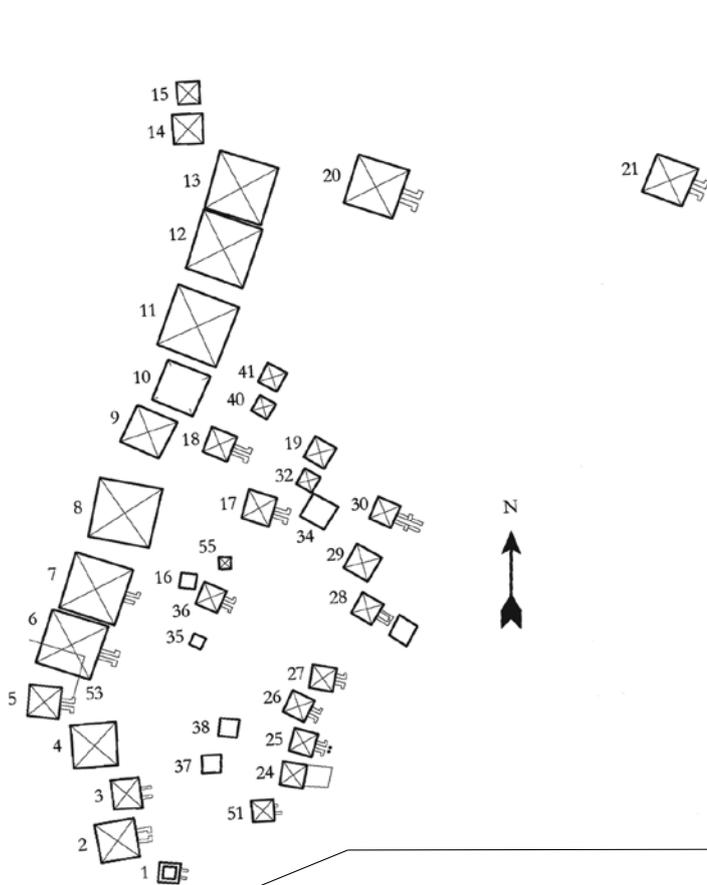


Figure 1. Plan, The Northern Royal Cemetery at Meroe
(after Fisher et al. 2012, fig. 166).

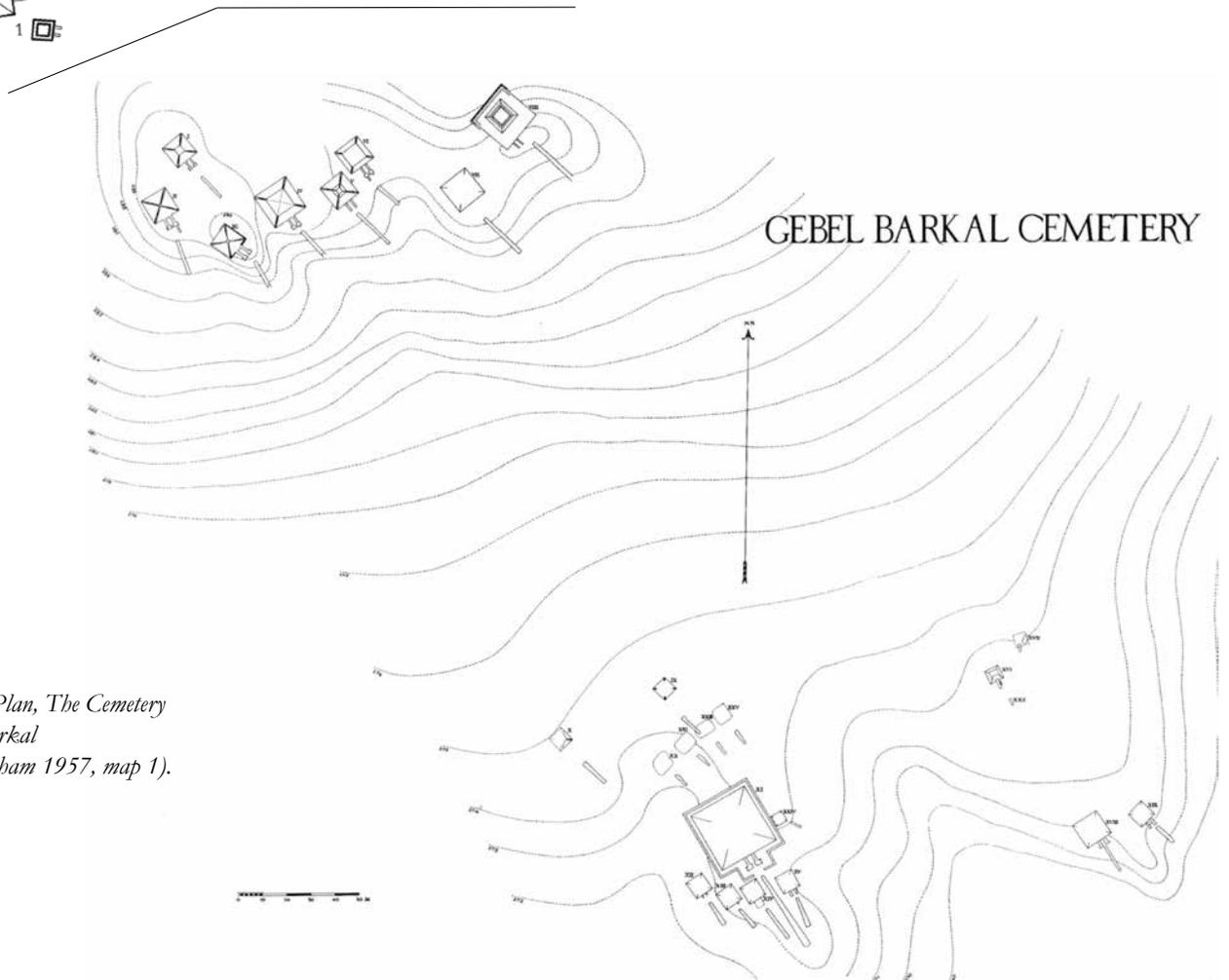


Figure 2. Plan, The Cemetery
at Jebel Barkal
(after Dunham 1957, map 1).



other evidence from texts, objects, etc. is available) and if the results are congruent, then although certainty may be elusive, it can be argued that a hypothesis has a degree of plausibility.⁸

The first typology for the iconography of pyramid chapel decorations was created by Wenig. Based on significant patterns of shared similarities (compare Figures 3a and b for two

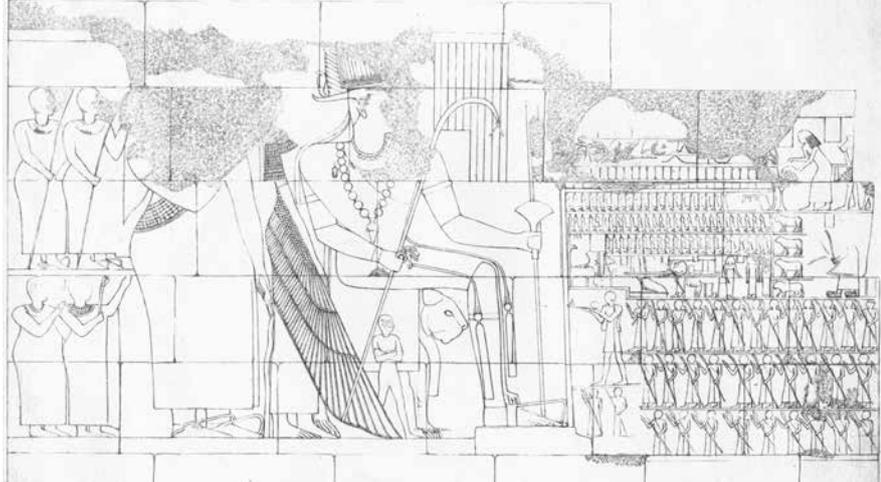


Figure 3a. Beg. N. 13, north wall, Naqyrinsan (?) (after Chapman and Dunham 1952, pl. 11A).

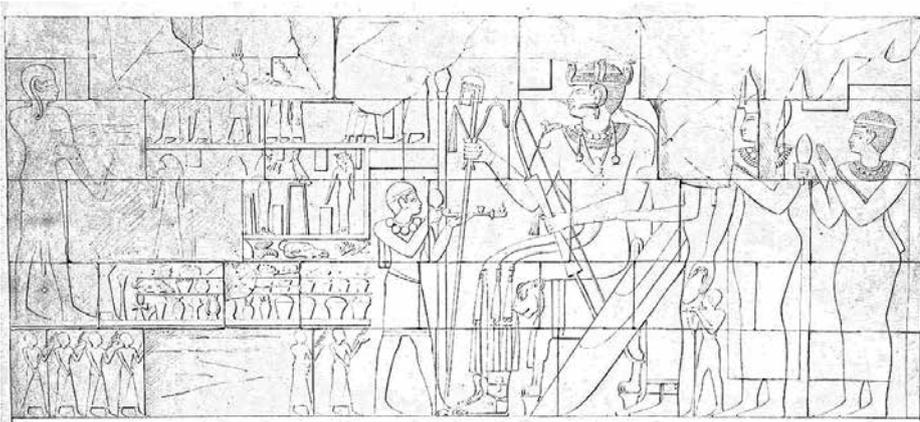


Figure 3b. Beg. N. 20, south wall, Teriteqas (?) (after Chapman and Dunham 1952, pl. 12B).

examples) he divided the royal chapels at Meroe and Barkal into three large chronologically sequential groups (Wenig 1971; 2015). This typology can be refined by noting smaller consistent changes or variations in content and iconography to create subgroups of chronologically and culturally related pyramids. Identifying trends in the way they are used can suggest their chronological order because for the most part these changes are not arbitrary. For example differences in the representations of family members who stand around the

⁸ As a control for the findings, Rilly's (2004) paleographic sequencing and dating for this group of rulers were referenced only after the completion of this research. In each case, although he used very different data and methods, our conclusions were the same. As will be noted throughout the study, our findings were also congruent with Reisner's pyramid typology and sequence and in most instances, the hypotheses Rilly and Reisner offered for them fit the iconographical data well. The sequence for the pyramids based on their iconography is the same as the one offered by Reisner 1923; Hofmann 1978; Török 1997; Rilly 2004.

enthroned ruler reflect specific realities in the legitimization and succession of rulers within that family.

Not only do all the pyramids dating to this period belong to Wenig's group B,⁹ but because they all share a distinctive iconographical feature not seen in any other chapel, they form a subgroup, group B-II, allowing a relative sequence to be created by tracking trends whose trajectories are established by the ways specific visual features are depicted in later chapels (Table 1).

Group B-II chapels: Beg. N. 13, Beg. N. 20, Bar. 5, Bar. 4, Beg. N. 6, Bar. 6, Beg. N. 21, Bar. 2 and Beg. N. 2

This subgroup is distinguished from earlier group B chapels by a key diagnostic feature which is a distinctive figure of the crown prince who is offering the ruler fumigation and who *always* has five specific elements (Figure 4). He is:

- 1) large and is more prominently placed in the center of the wall.
- 2) holding a round object (sorghum?).
- 3) standing partially under the royal baldachin (indicating his status).
- 4) wearing a large bead necklace and has two short cords falling from his shoulder.
- 5) never separated from the ruler by an offering table that would create distance between them.

All chapels before or after this group demonstrate significant differences when representing the fumigation ritual as can be seen for example when comparing Beg. N. 2 (Figure 5a),

the last chapel in group B-II, with Beg. N. 17 (Figure 5b), one of the first chapels in group C.

There are changes in the organization and sizes of specific motifs on group B-II's north and south walls¹⁰ demonstrating predictable patterns over time that continue in group C chapels (compare B-II chapels organized chronologically in Figures 6a-i). The patterns that form the basis for sequencing the B-II pyramids are:

- 1) an increase in the size of the diagnostic feature of the crown prince as well as in the size and number of family members standing behind him until he is the same height as the seated ruler (figure in red box).

⁹ As identified by Wenig in his doctoral thesis (2015, 22-28), Group B is comprised of Beg. N. 6 - N. 14, Beg. N. 20, Beg. N. 21 and Bar. 4-6 (Yellin 1990, 363-365).

¹⁰ Only lateral north and south walls were studied because many of the west walls are damaged or undocumented.



Figure 4. Beg. N. 20, south wall, detail, Teriteqas (?) (after Chapman and Dunham 1952, pl. 12B); the five elements of the diagnostic figure of the crown prince offering incense.

2) an increase in the size of the funerary procession of court members until it ultimately fills the eastern half of the chapels' walls (figure in blue box), along with the inclusion of family members behind the crown prince (figure(s) in green box).

3) a concomitant diminution in the number and size of offering and mortuary text-derived ritual scenes that continues until their almost total disappearance in later group C chapels.

The degree of prominence of these motifs relative to other B-II chapels suggests each one's place in a relative sequence.

Beg. N. 13, King Naqyrinsan (?)

Fragments of an offering table with Naqyrinsan's name in a cartouche were found in Beg. N. 13 (Reisner 1923, 44; Dunham 1957, 75; Eide *et al.* 1996, no. 159). This is the first chapel to have the diagnostic figure of the crown prince (Figure 4). Due to its early date, as would be expected, the figure is quite small and no other family members stand behind him. The complex ritual and mortuary text scenes in the chapel are in keeping with previous group B chapels. The introduction of the crown prince offering incense on the north wall, as well as the bow and arrows held by the king, reflect changes in royal ideology that will be more prominently expressed in the reliefs of Beg. N. 20. The transitional nature of these chapel decorations indicate that the religious and ideological changes expressed by new iconography in group B-II chapels did not result from a major cultural or political rupture.

Beg. N. 20, attributed to King Teriteqas (?)

Evidence for attribution: The attribution of King Teriteqas to Beg. N. 20 is important since Teriteqas is thought to be the first of the Meroitic rulers to fight the Romans. Textual evidence indicates that Teriteqas is succeeded by his wife Queen Amanirenas (Bar. 4 (?), see below) and then by Queen Amanishakheto (Beg. N. 6). Paleography of Teriteqas' inscriptions appear to date to the late 1st century BC.¹¹ All three were active in the Triaconstaschoenus at the end of the 1st century BC.

¹¹ I.e. the stele at Hamadab (Leclant *et al.* 2000c, REM 1003), late 1st century BC (Rilly 2004).



Figure 5a. Beg. N. 2, north wall, Amanakhabale (after Chapman and Dunham 1952, pl. 15A).



Figure 5b. Beg. N. 17, north wall, Amanitenmomide (after Chapman and Dunham 1952, pl. 21b); changes in the iconography of the crown prince between the last chapel in group B-II and an early group C chapel include the addition of an offering table between the prince and king and a change in the object held with the incense burner.

Beg. N. 20 is rarely considered for Teriteqas. It has erroneously been dated several decades too early because of a Horus name carved on its pylon (see discussion below) which has possibly been misdated and as a result Beg. N. 20 is often ascribed to Taneyidamai (second half of the 1st century BC). However Beg. N. 20 demonstrates connections to the newly resumed pyramid burials in Barkal's north cemetery, particularly through its introduction of the type X.D superstructure and two chamber substructure that date it to the late 1st century BC, too late to belong to Taneyidamani. Paleographical similarities in inscriptions from Beg. N. 11 and Taneyidamani suggest that his burial place should be in close chronological relationship to Beg. N. 11 (Rilly 2004). Since Beg. N. 12 is next in the sequence (Reisner 1923, 44), it, rather than Beg. N. 20, is the likely burial place of King Taneyidamani (Yellin 2014a, 81-82).

D) The Horus name and dating of Beg. N. 20 to the time of

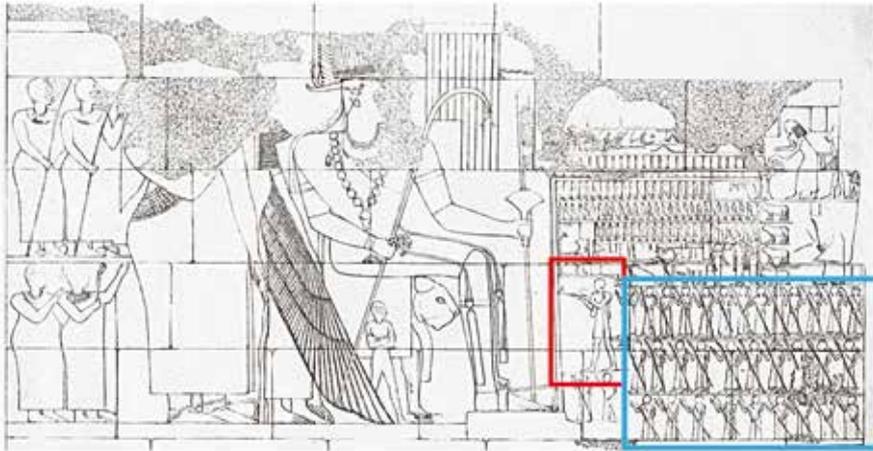


Figure 6a. Beg. N. 13,
north wall, Naqyrinsan
(?) (after Chapman and
Dunham 1952,
pl. 11A).

Figure 6b. Beg. N. 20, south
wall, Teritegas (?)
(after Chapman and
Dunham 1952, pl. 12B).

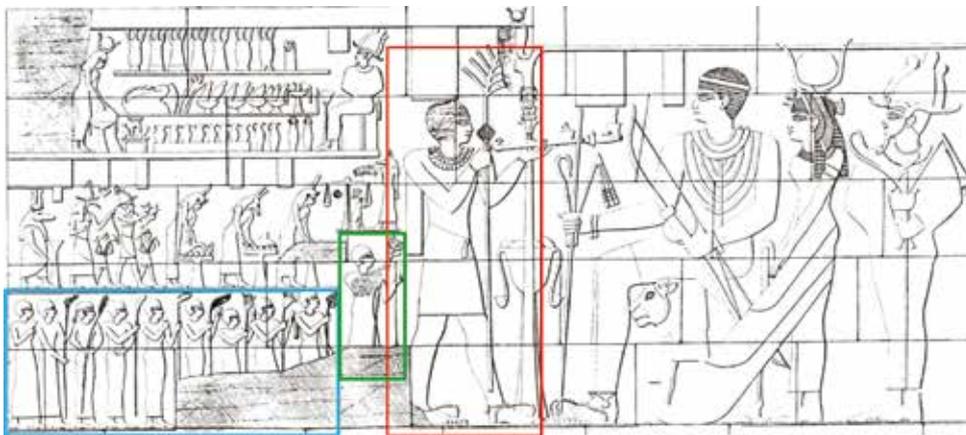
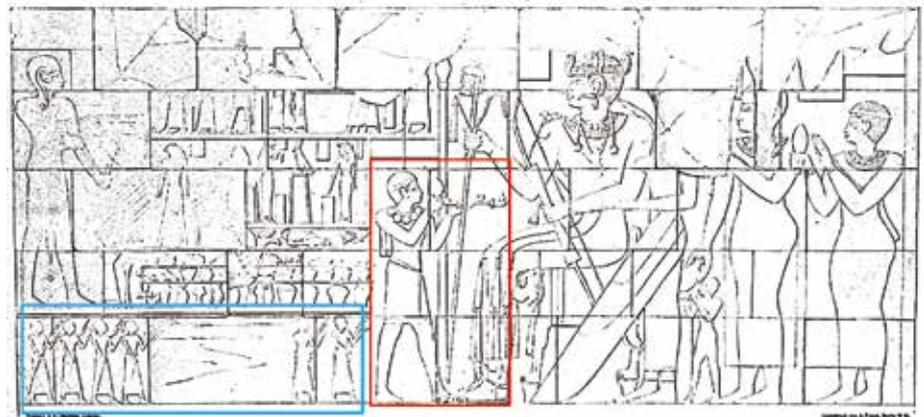
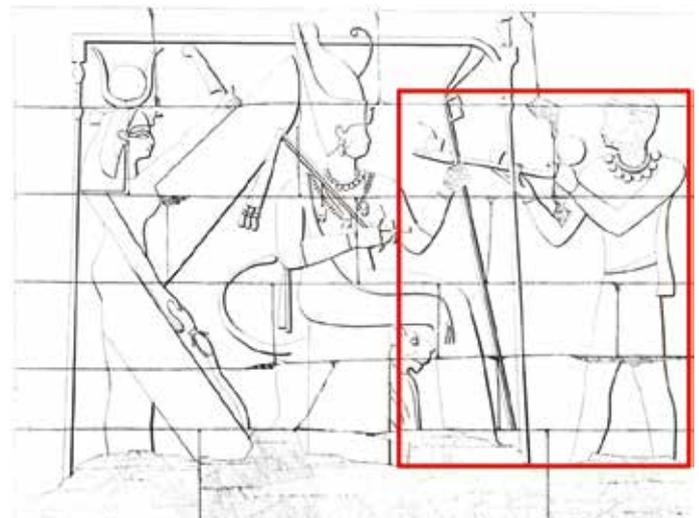


Figure 6c. Bar. 5, south wall,
Akinidad (?) (after Lepsius
1849-59 V, pl. 20).

Figure 6d. Bar. 4, north wall,
Queen Amanirenas (?)
(after Chapman and Dunham
1952, pl. 13C).



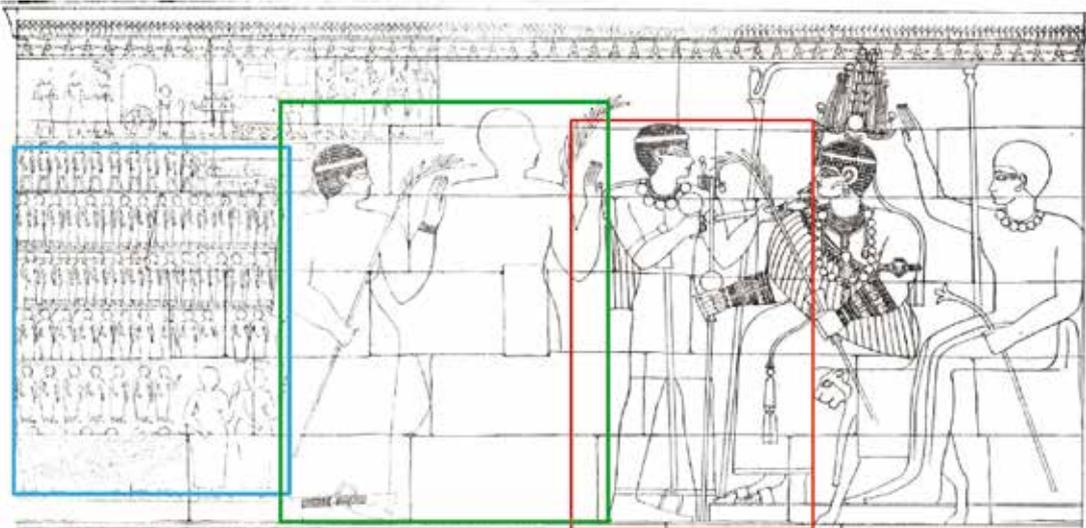


Figure 6e. Beg. N. 6, south wall, Queen Amanishakheto (after Chapman and Dunham 1952, pl.16B).

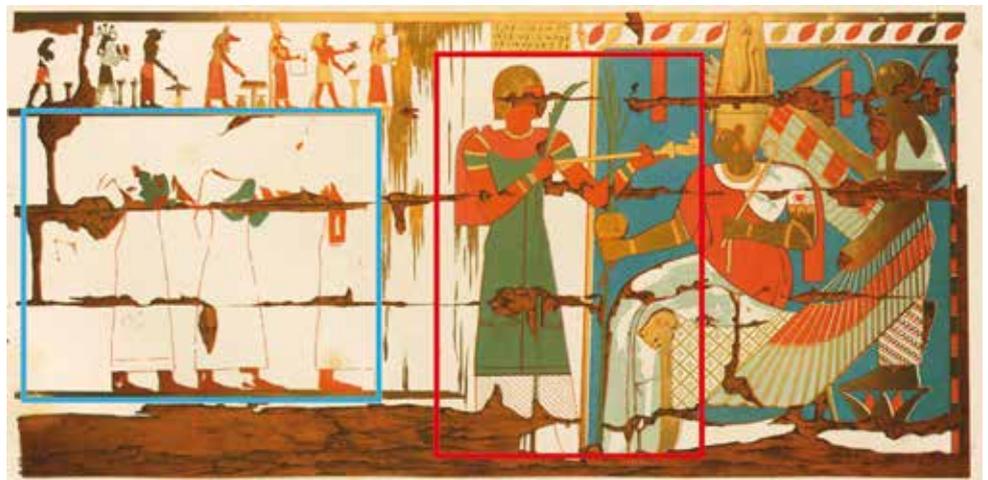


Figure 6f. Bar. 6, south wall, Queen Navidemak (after Lepsius 1849-1859 V, pl. 19b).

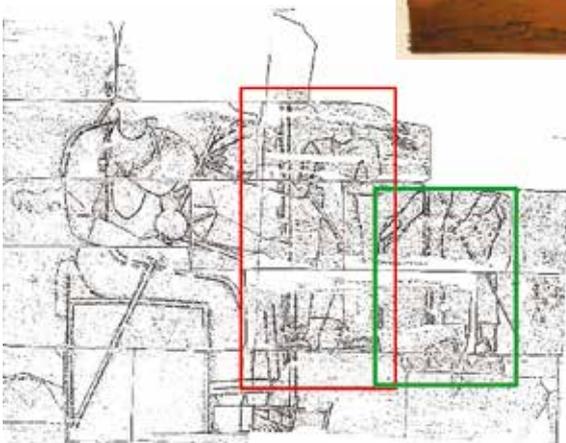
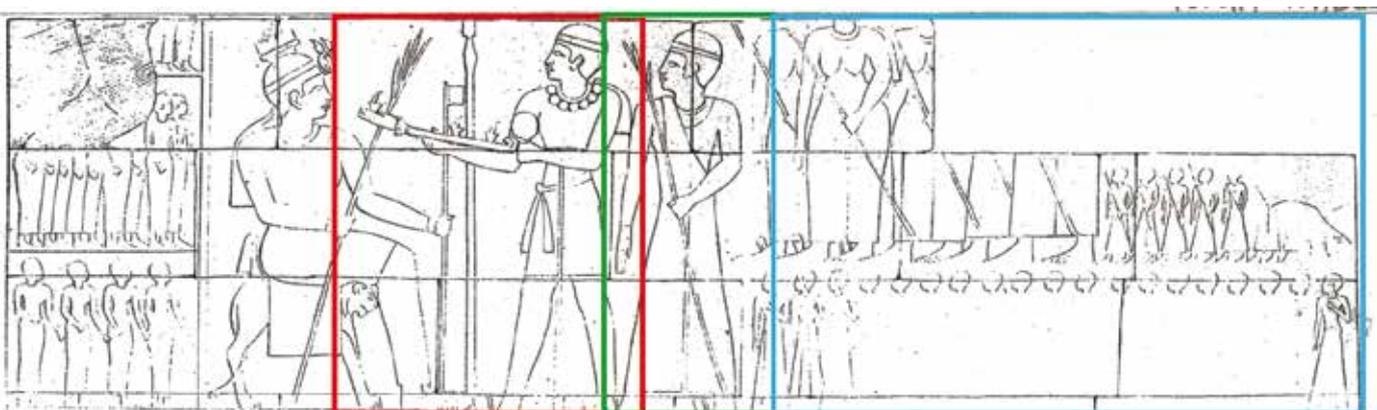


Figure 6g. Beg. N. 21, north wall, Unknown Queen (after drawing in Hinkel and Yellin forthcoming).

Figure 6b. Bar. 2, north wall, Unknown King (after Lepsius 1913, pl. 49).



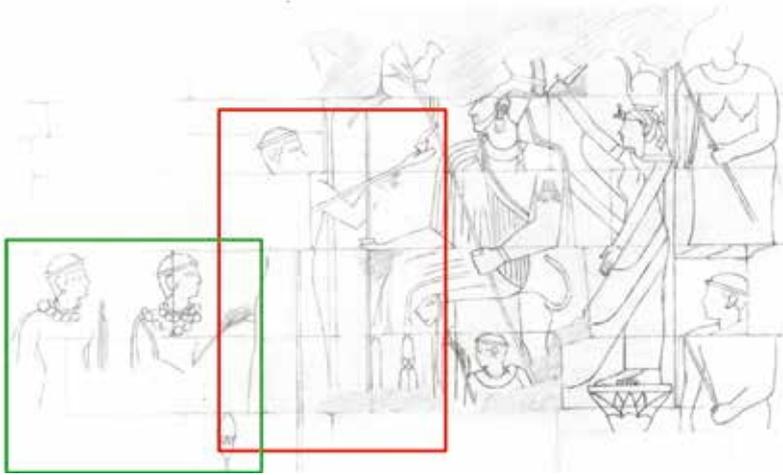


Figure 6i. Beg. N. 2, south wall *Amanakbabale* (?) (after Chapman and Dunham 1952, pl. 15A); showing the growing importance of the crown prince, family members behind him and the funeral procession with the concomitant diminution of offering and mortuary text images.

Teriteqas: The Horus name, *k3 nht* carved on the pylon (Figure 7) has been used to date Beg. N. 20 to an earlier period. It was used by Ptolemy XII Neos Dionysos (80-58, 55-51 BC, in new numbering Ptolemy XI) who was active in the Dodescaschoneos (Eide *et al.* 1996, no. 160 no. 172; Zibelius-Chen 2006, 298) during Taneyidamani's reign, but it was also used by later Ptolemaic rulers including Ptolemy XV (Caesarian) Philopator Philmetor (44/36-30 BC, in new numbering Ptolemy XIV)¹² making its use current during the time of Teriteqas. Beyond Ptolemy XII's activities in Nubia, nothing definitively attaches the epithet to Taneyidamani's time.

II) New features in royal representation: New iconographical features also indicate that Beg. N. 20 should date from the late 1st century AD onwards along with the other group B-II chapels. Teriteqas (?) (Figures 7 and 12), Queen Amanishakheto (Figure 10) and Queen Nawidemak (Figure 13) wear a tasseled double cord and double mantle. Teriteqas (?) and Amanishakheto also have archaistic rams' horns curving around their ears (Figures 6b and e) and are represented as Onuris on their pylons. If Beg. N. 20 dates to the time of Taneyidamani, these unusual shared features (Figures 7 and 10) would have appeared approximately a century apart.

III) Connections to elite and royal burials at Jebel Barkal: Burials at Jebel Barkal resumed at approximately the same time that Meroitic rulers became more politically and economically active in Lower Nubia. Beg. N. 20 introduces new features that also appear for the first time in Barkal pyramids.¹³ It has the first

¹² Török in Eide *et al.* 1996, no. 160. This Horus name is not rare having been used by earlier Kushite kings including King Arnekhamani (second half of the 3rd century BC), and as an epithet, *k3 nht* continues to be used for gods in Ptolemaic and Roman period Egyptian temples such as Dendera.

¹³ Reisner (1923, 44) placed Beg. N. 20 alone in his group e because it introduced a two chamber substructure that is followed by all future royal burials. Bar. 5, which is not royal, is the only pyramid which does not have this type of substructure.

Type X.D superstructure¹⁴ which is shared by Barkal pyramids in group B-II (Bar. 4 and Bar. 6) whereas Beg. N. 13's type X.C pyramid is only found in the Northern Cemetery at Meroe. The use of gold rings as foundation deposits, while not new in the Northern Cemetery at Meroe, appears for the first time in Bar. 5; they are thereafter used exclusively in all group B-II and other Barkal pyramids (Reisner 1923, 57).¹⁵

IV. Beg. N. 20 introduces new features to create the ideology of a warrior king: For the first time bronze cow bells were found in a Meroitic royal burial having been left at or near the sealed entrance to Beg. N. 20's substructure.¹⁶ As discussed by Lenoble (1994), the bells reflect the actual or symbolic sacrifice of cows, horses, donkeys and camels at the time of burial as a bellicose, triumphal expression of royal power.

The pylon publicly presents the ruler as a fearsome warrior king. The Horus name, *k3 nht*, carved on it and translated as 'mighty bull' references qualities of power and force. His triumphal persona is further expressed by his depiction. He is spearing his enemies (Figure 7) instead of striking them with a club as traditionally shown on Meroitic tomb and temple pylons (Figure 8). By using this pose the king associates himself with the Nubian warrior god Onuris¹⁷ (Figure 9), who is typically shown spearing captives, to express a source of royal power with bellicose undertones.

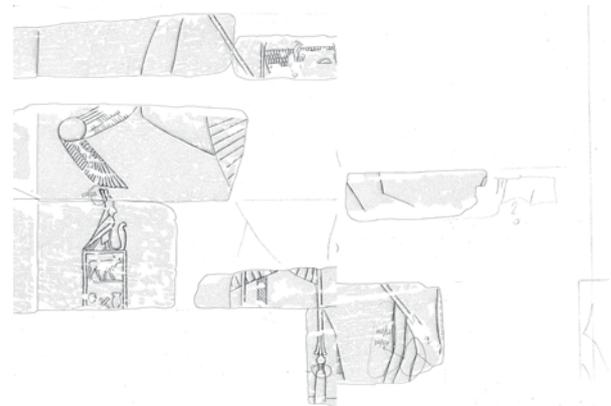


Figure 7. Beg. N. 20, pylon, north side, Teriteqas (?) (after drawing in Hinkel and Yellin forthcoming); posed spearing captured enemies, wearing double tasseled cord with two sashes.

¹⁴ One of only two Type X superstructure variants found at both Meroe and Barkal (Hinkel 1984, 318).

¹⁵ Objects found in association with Beg. N. 20, and indeed all burials, are in need of full study in the light of current research. In the interim, Török's study (1984, 123) of imported finds places some objects within the appropriate time frame for Teriteqas: glass bowl fragments 21-1-92a (late Ptolemaic to Early Roman), 21-12-190 (late 1st century BC – AD mid-1st century) and an Eastern Sigillata A bowl 21-2-119 (late 1st century BC). However the dating of a bronze drinking cup handle, 21-12-123 (early 1st century AD), if accurate, pushes the outer chronological limit for Teriteqas's reign. It is not certain if these objects were found *in situ*.

¹⁶ Excavation numbers are 21-12-114-117 (Dunham 1957, 78, fig. 50, pl. LIV; Näser 1996, 155-62).

¹⁷ Later linked with Arensnuphis (Török 2001, 151).



Figure 8. Beg. N. 1, pylon, north side, Tarenkenival (after Lepsius 1849-59 V, pl. 49); typical pose of the ruler clubbing captured enemies.

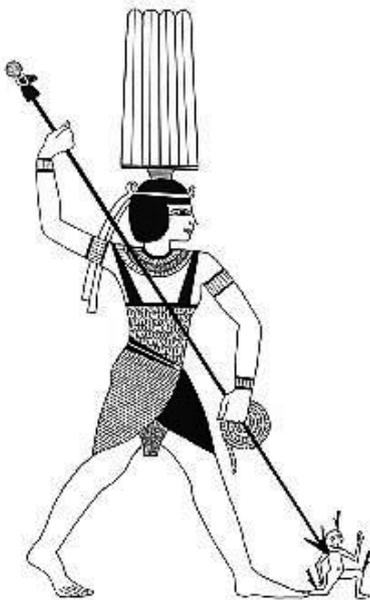


Figure 9. The Nubian god, Onuris, (accessed <http://members.chello.nl/~k.versteegen/egypti1.jpg>).

Of the six surviving decorated pylons at Meroe, only Queen Amanishakheto (Beg. N. 6), who ruled one generation after Teriteqas, also uses this image (Figure 10).

The king's regalia includes two loosely laid double tasseled cords that fall down his torso (Figures 7 and 12) that may also be related to imagery associated with Onuris.

Significantly, Teriteqas' stele from Meroe City Temple M 600 (Garstang *et al.* 1911, pls XIX and LXVIII; Leclant *et al.* 2000b, REM 0412) proves that Teriteqas wore these double tasseled cords (Plate 1).¹⁸ Queens Amanishakheto (Beg. N. 6) (Figure 6e) and Nawidemak (Bar. 6) (Figure 13) also wore



Plate 1. Stele of Teriteqas, Meroe temple M 600 (after Garstang *et al.* 1911, pl. XIX).

double cords with wide double sashes under them and the double sash is also carved on Beg. N. 20's pylon. These associations with Onuris amplify the pylons' triumphal imagery. Finally Teriteqas (?), Akinidad (?) and Amanishakheto hold bows and arrows (compare Figures 11a-c).¹⁹

Evidence for sequencing

Beg. N. 20 has the first chapel with fully developed group B-II iconography. Based on its location, it is a close successor to Beg. N. 13. When compared to Beg. N. 13 and earlier group B chapels, its crown prince, who exhibits all five basic features, is far more prominent than earlier officiants who are offering incense, yet he is not as large as in later B-II chapels. In contrast, Beg. N. 13's officiant may not be a crown prince since that might be the smaller figure standing before, but not within the royal baldachin. (Figures 3a and b). The continued

¹⁸ Half of the double sash worn under the cords on Beg. N. 20 and Beg. N. 6 can also be seen on the stele, but it is damaged exactly where the second half of the sash would have been carved.

¹⁹ Török notes that '... bows and arrows [are] not as frequent as one would expect [in royal depictions]' (Török 1990, 168).

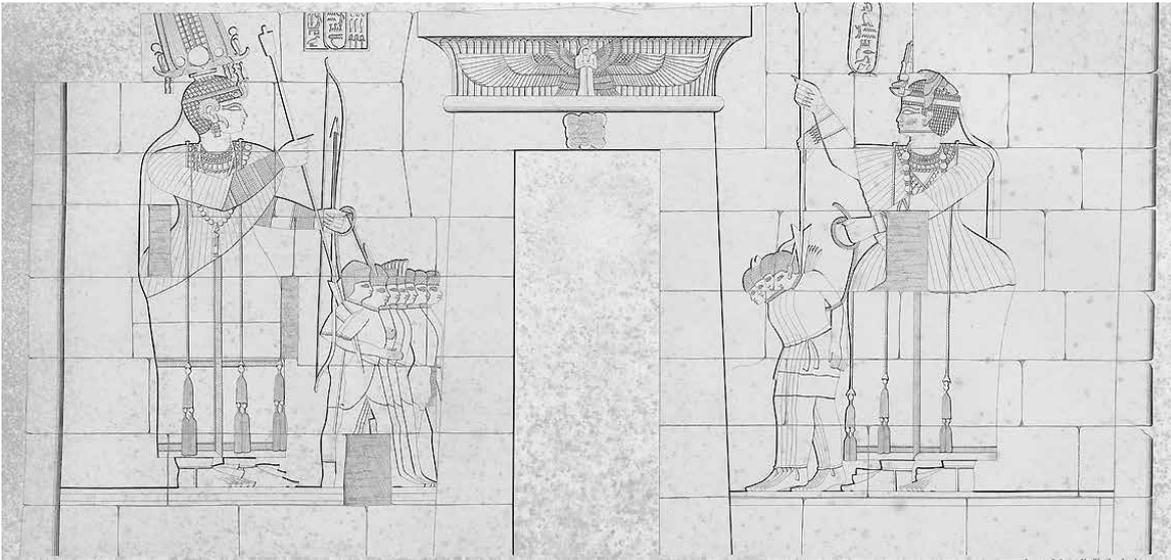


Figure 10. Beg. N. 6, Pylon, Queen Amanishakheto (after Lepsius 1849-1859, V, pl. 40); posed spearing captured enemies while holding bow and arrows, wearing double tasseled cord with two sashes.

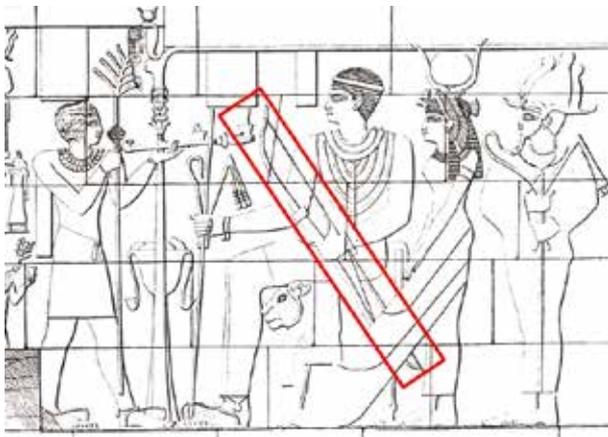


Figure 11a. Beg. N. 20, south wall, detail, Teritegas (?) (after Chapman and Dunham 1952, pl. 12B).

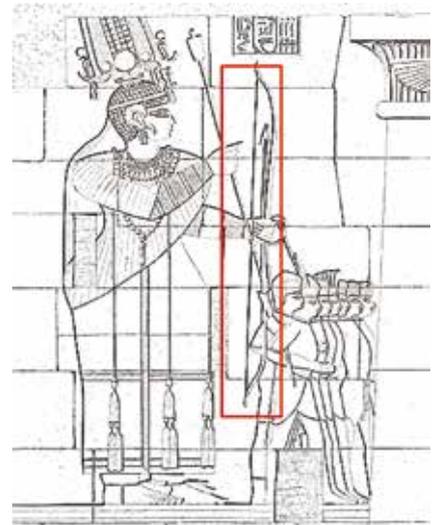


Figure 11c. Beg. N. 6, pylon, south side, detail. Queen Amanishakheto (after Lepsius 1849-1859, V, pl. 40).

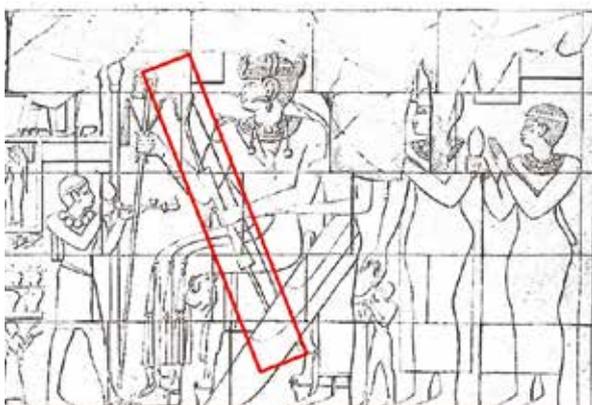


Figure 11b. Bar. 5, south wall, detail, Akinidad (?) (after Lepsius 1849-59 V, pl. 20).

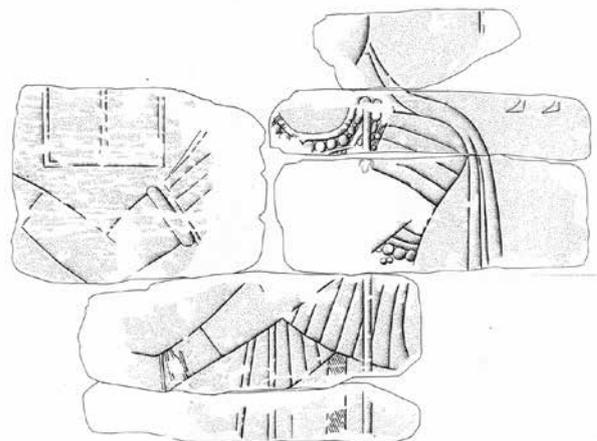


Figure 12. Beg. N. 20, pylon, north side, Teritegas (?) (after drawing in Hinkel and Yellin forthcoming); posed spearing captured enemies, wearing double tasseled cord with two sashes.

importance of offerings and scenes from Egyptian mortuary texts in combination with the minor role given members of the funerary procession (small figures on the lowest register) reflect Beg. N. 20's early place in the sequence.

Summary

Beg. N. 20 is the second burial in this subgroup and the first to prominently display the crown prince. The iconog-



Figure 13. Gold statuette of Queen Nawidemak (after drawing Török 1990, fig. 37).

raphy shared with Queens Amanishakheto (Beg. N. 6) and Nawidemak (Bar. 6) in addition to the architectural features and foundation deposits it has in common with the Barkal B-II pyramids support a late 1st century BC for Beg. N. 20. Innovations in the chapel reliefs indicate that the cultural changes signaled by Beg. N. 13's reliefs have taken hold. The crown prince now plays a central role in his predecessor's burial and family members (and their role in the selection and legitimation of the ruler) are more prominent. A royal ideology emphasizing the warrior/bellicose aspects of the ruler is created through the use of old (the Horus name) and new (Onuris) forms. The decision to create new forms of familial and triumphal imagery for Teriteqas (?) speaks to this chapel's decoration as a particularly deliberate and innovative expression of royal ideology.

The evidence supporting Beg. N. 20's attribution to Teriteqas includes; regalia shared with Teriteqas's stele, Amanishakheto's chapel and Nawidemak's statue, iconographical connections to other B-II chapels such as the weaponry (Beg. N. 6, Bar. 5) and ram's horns wrapped around the rulers' ears (Beg. N. 6). Finally the triumphal warrior aspects of its owner represented by the bronze bells, Horus name and pylon iconography are in keeping with the burial of a king whose expansionist policies in the Lower Nubia led his kingdom into military conflict with the Roman Empire.

*Bar. 5, attributed to Akinidad (?)*²⁰

Evidence for attribution

The iconography of Bar. 5 demonstrates that the owner enjoyed very high status and his name appeared in a cartouche (Leclant *et al.* 2000a, REM 0092), which may explain why Bar. 5 was 'allowed' to have the male offering fumigation who has

four of the five elements of the diagnostic figure used only in royal chapels (Figure 6c). The missing element is the large bead necklace of the crown prince, which is to be expected since its owner was not a king. The absence of the large beads in this circumstance is further proof that they are part of a crown prince's regalia as noted by Rondot (2011, 432-433). Appropriately, no matriarchs, princes and other family members gather around the owner because there is no need to reflect circumstances surrounding a ruler's legitimation and succession; instead Isis and Osiris take their place. Because the tomb owner is holding weapons, he is often identified as the *pqr* Akinidad who fought the Romans alongside Teriteqas and who served Teriteqas's successors (Queens Amanirenas and Amanishakheto) as their *pqr* and *peseto* (governor of Lower Nubia). The depiction of weaponry in Beg. N. 20's and Bar. 5's chapels reflect military aspects shared by both owners. This and other similarities between Bar. 5 and Beg. N. 20 suggest a connection between the owners like that of Akinidad and King Teriteqas.

Evidence for sequencing

The chapel's decoration and iconography are most similar to Beg. N. 20 supporting their chronological (and perhaps familial) proximity (compare Figures 6b and c). Based on its architecture, Bar. 5 is '... practically contemporaneous with Beg. N. XX' (Reisner 1923, 60).

Bar. 4, attributed to Queen Amanirenas (?)

Attribution and sequencing

Both Bar. 4 and Beg. N. 21 (Figures 6d and g) have been suggested as burial places for Teriteqas's wife and successor, Queen Amanirenas. Both share the diagnostic feature of the crown prince and the general decorative programme of this group. The use of the image of the queen sitting on a block throne to attribute Beg. N. 21 to Amanirenas is questionable (see Beg. N. 21 below). In Bar. 4 family members are given less importance than in Beg. N. 21 suggesting it is closer in date to Beg. N. 20 than Beg. N. 21. The profile rather than later frontal depiction of females' breasts as in Beg. N. 21 (see Beg. N. 6 for a discussion of this feature) is also an indicator that this chapel is earlier than Beg. N. 21. If Bar. 4 is Amanirenas's burial then Teriteqas's burial at Meroe in Beg. N. 20, while she was buried at Jebel Barkal, could reflect a preference for being buried in one's family cemetery.

Beg. N. 6, Queen Amanishakheto

Attribution and Sequencing

Beg. N. 6 is attributed to Queen Amanishakheto. Because inscriptions indicate that Akinidad served Amanirenas and Amanishakheto as well as Teriteqas (Eide *et al.* 1996, no. 179), it is unlikely that Akinidad would have lived long enough to serve another ruler whose reign intervened between these two queens. Therefore it is likely that Amanishakheto's reign followed directly after that of Amanirenas.

While Amanishakheto's chapel reliefs include the diagnostic figure of the crown prince, stylistic and iconographical

²⁰ For a fuller discussion, see Yellin 2014a, 84-85.



changes, most notably the depiction of females with fully frontal (as opposed to profile) breasts (Figures 14a-d) and the near total replacement of offering and mortuary book rituals on the eastern sections of the north and south walls by the funerary procession, foreshadow characteristics of later group C chapels. It is the absence of these features in Bar. 5 and Bar. 4 that places them before Beg. N. 6 in the relative sequence. The triumphal aspect of Amanishakheto's imagery (weaponry, Onuris-pose on pylon) has been noted in the discussion of Beg. N. 20.

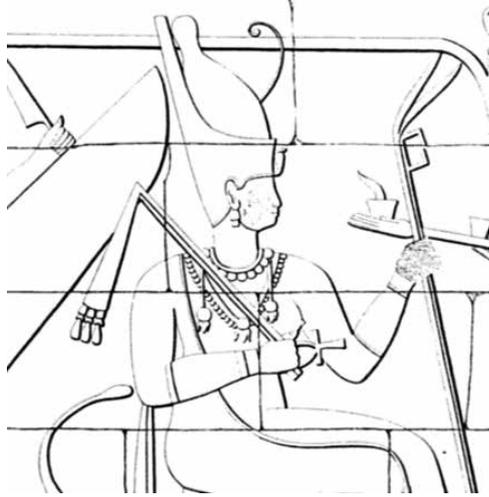


Figure 14a. Bar. 4, north wall, Queen Amanirenas (?) (after Chapman and Dunham 1952, pl. 13C).



Figure 14b. Beg. N. 6, south wall, Queen Amanishakheto (after Chapman and Dunham 1952, pl. 16B).

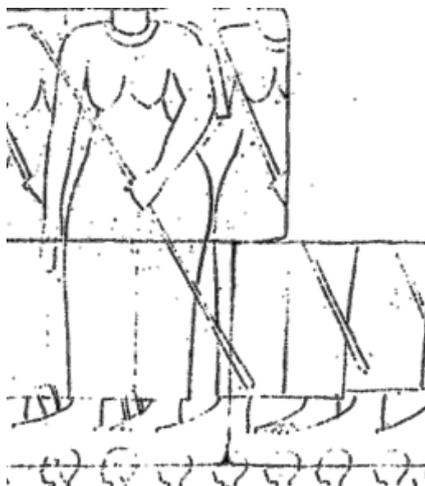


Figure 14c. Bar. 2, north wall, unknown king (after Lepsius 1913, pl. 49).

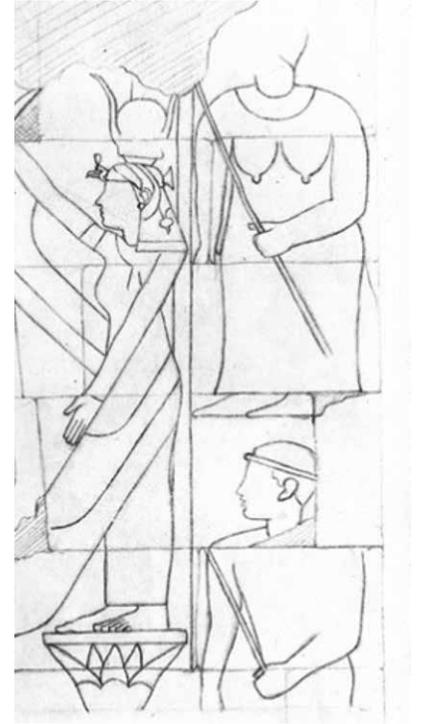


Figure 14d. Beg. N. 2, south wall, Amanakhabale (?) (after Chapman and Dunham 1952, pl. 15A).

Bar. 6, Queen Nawidemak

The presence of the crown prince in Bar. 6 (Figure 6f) confirms Queen Nawidemak's place in group B-II and the writing of her name in the chapel affirms her ownership. The trend of emphasizing the funerary procession at the expense of individual offering rituals and Egyptian mortuary text scenes continues and the rendering of female breasts frontally indicates that Bar. 6 and Beg. N. 6 (Figure 14b) were closer in date to each other than Bar. 6 was to Bar. 4 (Figure 14a), Bar. 5 or Beg. N. 20. Since Akinidad served Teriteqas, Amanirenas and Amanishakheto, it is unlikely that he could have served an intervening fourth ruler. This chapel would have come after Beg. N. 6.

Beg. N. 21, Unknown Queen

The depiction of the queen sitting on a block rather than a lion throne on the chapel's north wall (Figure 6g), has catalyzed much discussion (Zach 1995; 1999, 690-693). A block throne is typically reserved for gods, so identifying the royal figure sitting on a block throne in the contemporary phase of Meroe Temple M 250 (Figure 15) as Amanirenas (Hofmann and Tomandl 1986, 188; Zach 1999) has been significant in attributing this chapel to her. However the surface of the wall in Temple M 250 is damaged and it is far from certain that the figure seated on the block throne is female. Dominicus and Hinkel rebut the earlier arguments for it being female (Hinkel 2001, 258-259, 144-145). Dominicus believes the figure is male. However Hinkel still argues for a female based on the long garment the seated figure in Temple M 250 wears, rightly stating that only females wear long garments in the pyramid chapels; however this is true only for the pyramid chapel reliefs. The prince in the Cairo Museum's sculpture of a queen and prince (CG 864, Wenig 1978, No. 135, 212-

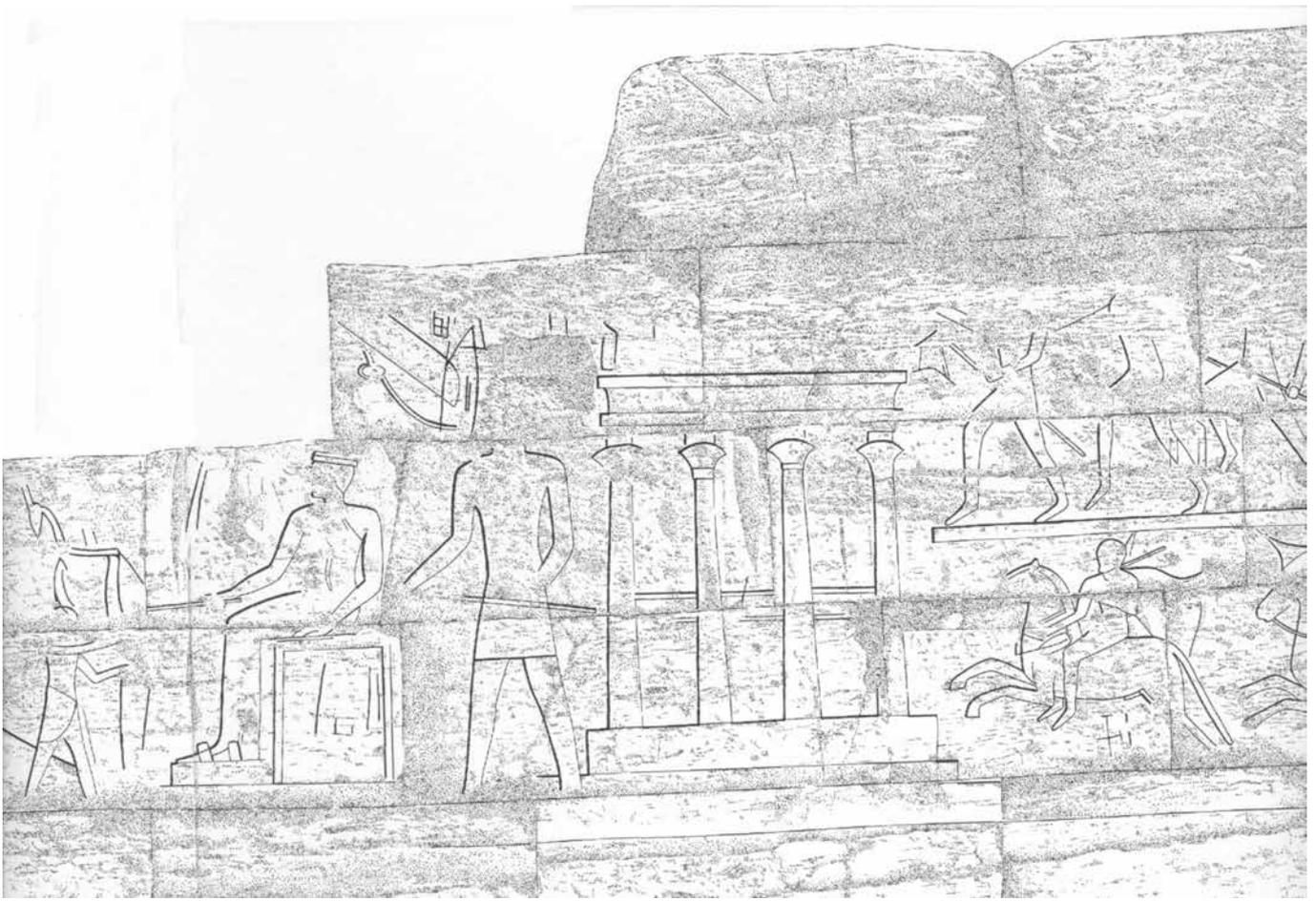


Figure 15. Seated ruler, Meroe Temple M 250, west wall, detail (after Hinkel 2001, fig. C 5).

214) (Plate 2) is not only wearing a long robe, it ties over his right shoulder just like the one worn by the figure in Temple M 250. This statue, sometimes identified as being of Queen Shanakdakhete and her heir, might be of Queen Amanirenas and the *pqr* Akinidad. With the gender of the enthroned figure in Temple M 250 in doubt, the strongest argument for assigning Beg. N. 21 to Amanirenas is also in doubt.

Several factors indicate that Beg. N. 21 is several generations later than Teriteqas's reign. The regalia of Beg. N. 21's queen is similar to Queen Nawidemak's since they have mantles draped over one shoulder below which hangs a small sack-like shape that may actually be extra fabric from the top of her garment folding over and draping down (compare Figures 6f and g).²¹ The large female standing behind the crown prince is typical in later chapels (i.e. Beg. N. 6 and Beg. N. 2). Beg. N. 21 also has a later position in Reisner's typological sequence since it was built in a poorer location than Beg. N. 6 and Beg. N. 2 indicating to him that it was later that those pyramids (Reisner 1923, 44-46). These factors combined with the iconography make it unlikely that the owner of Beg. N. 21 lived in the time of Teriteqas. If Rilly's proposed dating of Queen Shanakdakhete's reign to this period is correct,

²¹ Similar to the draping fabric on the prince standing behind the queen in Beg. N. 11 (Török 1990, fig. 33) and perhaps on the gold statue of Nawidemak (Figure 13).



Plate 2. Statue of Queen and Prince, Cairo Museum CG 864 (photo: J. W. Yellin).



she might be buried in this pyramid (Rilly in Wildung and Kroeper 2006, 183-184; Yellin 2014b, 80-81).

Bar. 2, Unknown King

Bar. 2, the burial most often attributed to Teriteqas, is stylistically too late to be his. Its chapel iconography is very close to Beg. N. 2, the last chapel in this proposed relative sequence. The rendering of females' breasts frontally, the total dominance of the funerary procession and the inclusion of a large family member behind the large crown prince reflect later developments seen in Beg. N. 2 (Figure 6i) and later group C chapels such as Beg. N. 17 (Figure 5b) that are not found in the earlier Beg. N. 20 (Figure 3b) and so Bar. 2 cannot belong to an early ruler in the sequence.

*Beg. N. 2, Attributed to Amanakhabale (?)*²²

Beg. N. 2 is the last pyramid in group B-II (Figure 6i). As with Beg. N. 6, new features appear alongside pre-existing ones demonstrating cultural change with continuity. There are new components in the king's regalia similar to those found in Beg. N. 17 an early group C chapel (compare Figures 5a and b). The prominence of family members on the north and south walls is a marker for its late place in the sequence. The queen (?) behind the king is generously proportioned with fully frontal breasts while the winged Isis in front of her has traditional Egyptian proportions with profile breasts. This is a wonderful example of the conscious choice Meroitic artists made to naturalistically represent Kushite women as opposed to canonically render Egyptian goddesses. The winged Isis standing on a lotus behind the king is a feature previously known from Bar. 6.

Beg. N. 22, King Natakamani and Beg. N. 1 Queen Amanitore

The chapels decorated in type B-II iconography end with Beg. N. 2. The diagnostic feature of the crown prince does not appear in these two chapels. The decorations of Beg. N. 1 are unique and closest in general approach to those of her son, the crown prince Arikhankhorer (Beg. N. 5), while those of Beg. N. 22 introduce new elements found in a number of later group C chapels.²³

Summary

Similarities in the iconography of all group B-II pyramid chapels indicate that the resumption of Meroitic royal burials in a hitherto unused area at Jebel Barkal does not represent a political rupture or even a definitive shift in the political and religious center of the Kushite state. Rather it appears that Meroitic rulers and elites shared the preference seen in the Southern Cemetery at Meroe (Yellin 2009, 11-15) for burial amongst their ancestors and family members. Two compet-

²² The attribution of Beg. N. 2, its place in the relative sequence and its owner's relationship to Queen Nawidemak as first posited by Dunham (1957, 103) is the result of circular reasoning.

²³ The decoration and iconography of Beg. N. 2 and later group C chapels will be the subject of a future study.

ing branches of the royal family may have created an alliance through royal marriages whose participants were buried in their clans' cemeteries at Meroe and Jebel Barkal, a decision based on deeply held traditional beliefs that offered the added benefit of serving as a visible statement of that family's role in ruling the Meroitic state.

Individual pyramids in group B-II have been dated to the mid-late 1st century BC – mid-1st century AD with varying degrees of certainty. The typology of their iconography adds additional support for dating all of them to this period, while the unique, shared diagnostic feature of the crown prince offering incense confirms their chronological proximity. The progressive importance given to the representation of family members behind the crown prince and to the funeral procession at the expense of other ritual scenes suggests their relative sequencing. The attributions of Teriteqas to Beg. N. 20 and his queen and successor Amanirenas to Bar. 4 who are followed by Amanishakheto in Beg. N. 6 are perhaps more challenging to accept than attributions that provide continuity in the use of the royal cemeteries. However, these attributions are based on the typology of the chapels' iconography that coincidentally, but happily, agreed with Reisner's chronology. The typology he developed to create his burial sequence is not without its flaws, but much of what he proposed in 1923 has stood the test of time remarkably well. The correspondences to Reisner's groupings and sequence suggest that these sequential changes in cemeteries are plausible.

The correspondences between Reisner's typological sequence of the group B-II pyramids, Rilly's typological sequence of relevant paleography and the typological sequence of their chapel decorations and iconography, given the current state of the evidence, plausibly support the following hypothetical sequence and attributions for Meroitic rulers during the period of conflict with Rome and its aftermath.

Table 1. Sequence and Attributions of group B-II pyramid chapels.

Beg. N. 13	Naqyrinsan?	1 st half 1 st century BC*
Beg. N. 20	Teriteqas?	end 1 st century BC*
Bar. 5	The <i>pqr</i> Akinidad	end 1 st century BC
Bar. 4	Amanirenas??	end 1 st century BC*
Beg. N. 6	Amanishakheto	1 st half 1 st century AD*
Bar. 6	Nawidemak	1 st half 1 st century AD*
Beg. N. 21	Unknown queen	1 st half 1 st century AD*
Bar. 2	Unknown king	1 st half 1 st century AD*
Beg. N. 2	Amanakhabale?	1 st half 1 st century AD*

*dating (Rilly 2004)

Bibliography

- Chapman, S. and D. Dunham 1952. *Decorated Chapels of the Meroitic Pyramids at Meroe and Barkal*. The Royal Cemeteries of Kush III. Boston.
- Dunham, D. 1957. *Royal Tombs at Meroe and Barkal*. The Royal Cemeteries of Kush IV. Boston.
- Eide, T., T. Hägg, R. H. Pierce and L. Török (eds) 1994. *Fontes Historiae Nubiorum. Textual Sources for the History of the Middle Nile Region between*

- the Eighth Century BC and the Sixth Century AD. Vol. I: From the Eighth to the Mid-Fifth Century BC.* Bergen.
- Eide, T., T. Hägg, R. H. Pierce and L. Török (eds) 1996. *Fontes Historiae Nubiorum. Textual Sources for the History of the Middle Nile Region between the Eighth Century BC and the Sixth Century AD. Vol. II: From the Mid-Fifth to the First Century BC.* Bergen.
- Eide, T., T. Hägg, R. H. Pierce and L. Török (eds) 1998. *Fontes Historiae Nubiorum. Textual Sources for the History of the Middle Nile Region between the Eighth Century BC and the Sixth Century AD. Vol. III: From the First to Sixth Century AD.* Bergen.
- Fisher, M., P. Lacovara, S. Ikram and S. D'Auria (eds) 2012. *Ancient Nubia. African Kingdoms on the Nile.* Cairo.
- Garstang, J., A. H. Sayce and F. L. Griffith 1911. *Meroe: The City of the Ethiopians.* Oxford.
- Hinkel, F. W. 1984. 'Die meroitischen Pyramiden: Formen, Kriterien und Bauweisen', *Meroitica* 7, 310-331.
- Hinkel, F. W. 2001. *Der Tempelkomplex Meroe 250.* The Archaeological Map of the Sudan. Supplement 1.1, 2a, 2b. Berlin.
- Hintze, F. 1959. *Studien zur meroitischen Chronologie und zu den Opfertafeln aus den Pyramiden von Meroe.* Berlin.
- Hofmann, I. 1971. *Studien zum meroitischen Königtum.* Monographies Reine Élisabeth 2. Brussels.
- Hofmann, I. 1978. *Beiträge zur meroitische Chronologie.* Bonn.
- Hofmann, I. and H. Tomandl 1986. 'Unbekanntes Meroe', *Beiträge zur Sudanforschung* 1.
- Leclant, J., A. Heyler, C. Berger el-Naggar, C. Carrier and C. Rilly 2000a. *Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées. REM 0001 à 0387.* Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées I. Paris.
- Leclant, J., A. Heyler, C. Berger el-Naggar, C. Carrier and C. Rilly 2000b. *Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées. REM 0401 à 0851.* Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées. II. Paris.
- Leclant, J., A. Heyler, C. Berger el-Naggar, C. Carrier and C. Rilly 2000c. *Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées. REM 1001 à 1278.* Répertoire d'Épigraphie Méroïtique. Corpus des inscriptions publiées. III. Paris.
- Lenoble, P. 1994. 'Le sacrifice funéraire de bovinés de Meroé à Qustul et Ballana', in *Hommages Leclant.* Bibliothèque d'Étude 106/1-4.2. Cairo, 269-283.
- Lepsius, C. R. 1849-59. *Denkmaeler aus Aegypten und Aethiopien: nach den Zeichnungen der von Seiner Majestät dem Könige von Preussen Friedrich Wilhelm IV. nach diesen Ländern gesendeten und in den Jahren 1842-1845 ausgeführten wissenschaftlichen Expedition auf Befehl Seiner Majestät herausgegeben und erläutert von C. R. Lepsius.* Leipzig.
- Lepsius, C. R. 1913. *Denkmaeler aus Aegypten und Aethiopien. Ergänzungsband.* Leipzig.
- Näser, C. 1996. 'Decorated Bronze Bells and Their Significance for Royal Burials', *Cahiers de Recherches de l'Institut de Papyrologie et d'Égyptologie de Lille* 17, 155-162.
- Reisner, G. A. 1923. 'The Meroitic Kingdom of Ethiopia: A Chronological Outline', *Journal of Egyptian Archaeology* 9, 34-77; 154-160.
- Rilly, C. 2001. 'Approche comparative de la paléographie et de la chronologie royale de Méroé', *Meroitic Newsletter. Bulletin d'informations méroïtiques* 28, 71-89.
- Rilly, C. 2004. 'Meroitic Paleography as a Tool for Chronology: Prospects and Limits', *Arkamani. Sudan Electronic Journal of Archaeology and Anthropology*
<http://archive.is/D7Qj1>
- Rilly, C. 2010. *Le méroïtique et sa famille linguistique.* Coll. Afrique et Langue 14, Paris.
- Rondot, V. 2011. 'L'empereur et le petit prince. Les deux colosses d'Argo. Iconographie, symbolique et datation', in V. Rondot, F. Alpi and F. Villeneuve (eds), *La pioche et la plume. Autour du Soudan, du Liban et de la Jordanie. Hommages Archéologiques à Patrice Lenoble.* Paris, 414-440.
- Török, L. 1984. 'Kush and the External World', *Meroitica* 10, 49-216.
- Török, L. 1990. 'The Costume of the Ruler of Meroe. Remarks on its Origin and Significance', *Archéologie du Nil Moyen* 4, 151-202.
- Török, L. 1997. *The Kingdom of Kush: Handbook of the Napatan-Meroitic Civilization.* Handbuch der Orientalistik: The Near and Middle East 31, Leiden.
- Török, L. 2001. *The Image of the Ordered World in Ancient Nubian Art: The Construction of the Kushite Mind, 800 BC-300 AD.* Probleme der Ägyptologie 18, Leiden.
- Török, L. 2014. 'The Periods of Kushite History', Communication. The 13th International Conference for Nubian Studies, Neuchâtel Switzerland.
- Welsby, D. A. 1996. *The Kingdoms of Kush: The Napatan and Meroitic Empires.* London.
- Wenig, S. 1964. *Untersuchungen zur Ikonographie der Darstellungen der meroitischen Königsfamilie und zu Fragen der Chronologie des Reiches von Meroe.* Doctoral Thesis, Humboldt-Universität zu Berlin. Berlin.
- Wenig, S. 1971. 'Bericht über archäologische Arbeiten an den Pyramidenkapellen der Nordfriedhofes von Begrawiya (Meroe)', *Wissenschaftlichen Zeitschrift der Humboldt-Universität zu Berlin, Ges.-Sbrachw.* R. XX, 3, 267-273.
- Wenig, S. 1978. *Africa in Antiquity II. The Catalogue. I & II.* Brooklyn.
- Wenig, S. 2015. *Untersuchungen zur Ikonographie der Darstellungen der meroitischen Königsfamilie und zu Fragen der Chronologie des Reiches von Meroe.* IBAES XVII. Berlin/London.
- Wildung, D. and K. Kroeper 2006. *NAGA Royal City of Ancient Sudan.* Berlin.
- Yellin, J. W. 1990. 'The Decorated Pyramid Chapels of Meroe and Meroitic Funerary Religion', *Meroitica* 12, 362-374.
- Yellin, J. W. 1995. 'Meroitic Funerary Religion', in W. Haase and H. Temporini (eds), *Aufstieg und Niedergang der römische Welt. Part II. Principate.* 18.5, Paris, 2869-2892.
- Yellin, J. W. 2009. 'La transition entre le Napatéen tardif et l'Époque méroïtique d'après les recherches sur la nécropole royale sud de Méroé', *Bulletin de la Société Française d'Égyptologie* 174, 8-28.
- Yellin, J. W. 2014a. 'The Chronology and Attribution of Royal Pyramids at Meroe and Gebel Barkal: BEG N 8, BEG N 12, BAR 5 and BAR 2', *Journal of Ancient Egyptian Interconnections* 16, 76-88.
- Yellin, J. W. 2014b. 'The Kushite Nature of Early Meroitic Mortuary Religion: A Pragmatic Approach to Osirian Beliefs', in A. Lohwasser and P. Wolf (eds), *Ein Forscherleben zwischen den Welten. Zum 80. Geburtstag von Steffen Wenig.* Berlin, 395-404.
- Zach, M. 1995. 'Beobachtungen zu einem Meroitischen Löwenthrontyp', *Aegyptus Antiqua* 9, 22-26.
- Zach, M. 1999. 'Vergöttliche meroitische Herrscher', *Meroitica* 15, 683-699.
- Zibelius-Chen, K. 2006. 'The Chronology of the Nubian Kingdoms from Dyn. 25 to the End of the Kingdom of Meroe', in E. Hornung, R. Krauss and D. A. Warburton (eds), *Ancient Egyptian Chronology. Handbook of Oriental Studies. Section 1, The Near and Middle East* 83. Leiden.



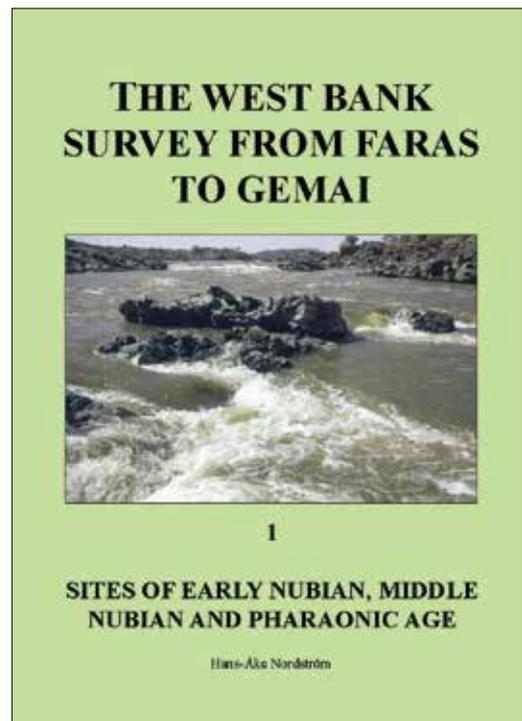
The West Bank Survey from Faras to Gemai 1. Sites of Early Nubian, Middle Nubian and Pharaonic Age

by H.-Å. Nordström
London, 2014

xviii + 178 pages, 29 tables, 33 plates, 74 figures
ISBN 978 1 901169 195

This volume completes the three-volume series devoted to the results of the survey and excavations conducted by the Sudan Antiquities Service between 1960 and 1963 during the UNESCO-sponsored Campaign to Save the Monuments of Nubia. The author reports in detail on the Pharaonic and earlier sites, the excavation of many of which he personally directed. Also heavily involved in the publication of the Scandinavian Joint Expedition's work on the opposite bank, he is ideally placed to provide a synthesis of the evidence for human activity in this part of the Nile Valley, now largely inundated.

Retail price £35. Available to members at the discounted price of £30 (p&p UK £4.90, overseas, Europe £9, Worldwide £15)



Gabati

A Meroitic, Post-Meroitic and Medieval
Cemetery in Central Sudan.

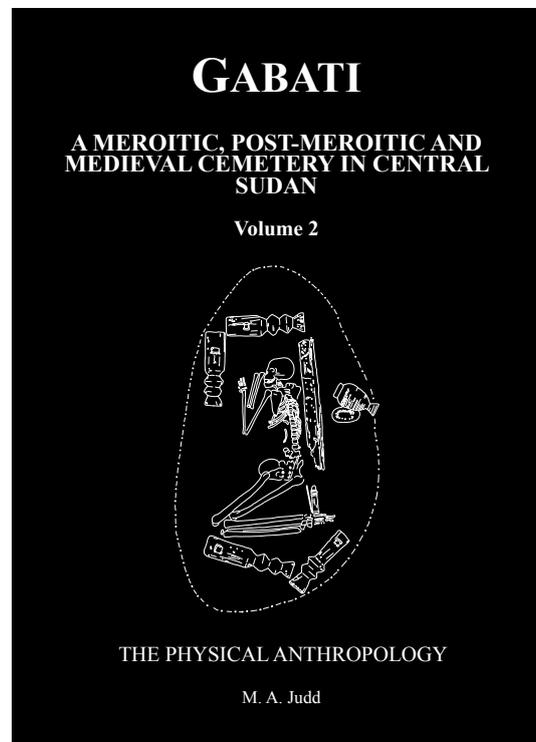
Vol. 2: The Physical Anthropology

by Margaret A. Judd,
with a contribution by David N. Edwards
London 2012

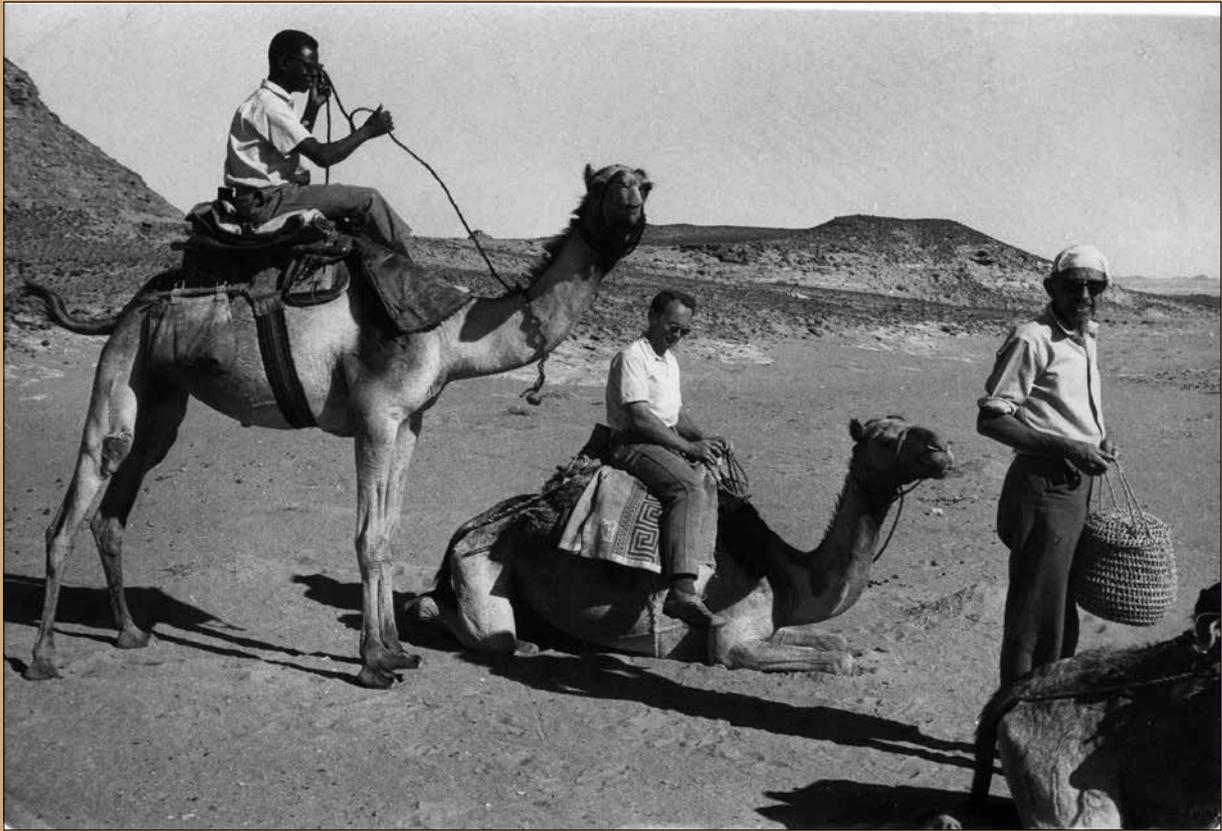
xiii + 208 pages, 110 tables, 15 figures, 66 maps, 73 colour plates
ISBN 978 1 901169 19 7

The cemetery at Gabati, dating from the Meroitic, post-Meroitic and Christian periods was excavated in advance of road construction in 1994-5, the detailed report being published by SARS in 1998. This complementary volume provides an in-depth analysis of the human remains. A final chapter, a contribution from David Edwards, the field director of the project, in conjunction with Judd, assesses the archaeological results in light of continuing research in the region over the last decade and more.

Retail price £33. Available to members at the discount price of £29. (p&p UK £4.90, overseas - Europe £9, rest of world £15)



Please order these books from the Honorary Secretary at the Society's address
or via the website <http://www.sudarchrs.org.uk/resources/publications/>



Members of the University of Ghana Expedition to Sudan. John Alexander (centre), James Anquandah (left), Tony Bonner (right) (photo: SARS Alexander Archive, ALE P003.05).



The Debeira West excavation team 1964 with amongst others, Peter and Margaret Shinnie, John Alexander, John Anquandah and Tony Bonner (photo: SARS Alexander Archive, ALE P003.04).