Sommaire

Michel Azim, Agnès Cabrol †, Aude Dobrakowski, Luc Gabolde
Les mystères d’un sphinx ................................................................. 1-11

Mansour Boraik
The Sphinx Avenue Excavations. Second Report .................................................. 13-32

Mansour Boraik
A Roman Bath at Karnak Temples. A Preliminary Report .................................. 33-46

Mansour Boraik, Salah el-Masekh, Anne-Marie Guimier-Sorbets, Bérangère Redon
Ptolemaic Baths in front of Karnak Temples. Recent Discoveries (Season 2009-2010) ................. 47-77

Mansour Boraik, Mohamed Naguib
Ceramic Material from the Ptolemaic Baths Excavations in front of Karnak Temples .................... 79-191

Peter Brand, Jean Revez, Janusz Karkowski, Emmanuel Laroze, Cédric Gobeil
Karnak Hypostyle Hall Project, Report on the 2011 Field Season for the University of Memphis & the Université du Québec à Montréal ....................................................... 193-229

Jean-François Carlotti, Philippe Martinez
Nouvelles observations architecturales et épigraphiques sur la grande salle hypostyle du temple d’Amon-Rê à Karnak .............................................................. 231-277

Silvana Cincotti
« Les fouilles dans le Musée » : la collection égyptienne de Turin et le Fonds Rifaud .............................. 279-285

Romain David
La céramique d’un habitat du Ve siècle à Karnak ...................................................................... 287-297
Catherine Defernez
Remarques à propos de quelques vases Bès découverts à Karnak.................................................................299-331

Didier Devauchelle, Ghislaine Widmer
Un hiereus en écriture démotique à Karnak ........................................................................................................333-336

Amr Gaber
Aspects of the Deification of King Sety I ..............................................................................................................337-382

Luc Gabolde
Remarques sur le chemisage des obélisques de la Ouadjyt et sa datation ..........................................................383-399

Jérémy Hourdin
À propos de la chapelle d’Osiris-Padedankh de Chapenoupet II. Un apport à sa reconstitution épigraphique et architecturale ..................................................................................................................401-423

Charlie Labarta
Une stèle de Ramsès II au magasin Cheikh Labib à Karnak ..................................................................................425-436

Nadia Licitra
La réfection de l’enceinte du temple d’Amon sous le règne de Ramsès III : une nouvelle stèle découverte à Karnak ........................................................................................................................................437-445

David Lorand
Une « Chapelle des Ancêtres » à Karnak sous Sésostris Ier ? ........................................................................447-466

Christophe Thiers
Membra disiecta ptolemaica (II) ............................................................................................................................467-491

Christophe Thiers, Pierre Zignani
Le domaine de Ptah à Karnak. Premières données de terrain ..............................................................................493-513

English Summaries ........................................................................................................................................495-520
THE KARNAK HYPOSTYLE HALL PROJECT worked at Karnak from May 17, 2011 through June 28, 2011. Our expedition is a joint effort of the University of Memphis, USA and the Université du Québec à Montréal, Canada. Our epigraphic work this season concentrated on recording reliefs and inscriptions on the 127 columns which remain standing in the Hypostyle Hall and on abacus blocks from these columns and of abacus fragments in the block yards. In addition, we also continued our earlier work to document inscribed blocks from the upper levels of the walls which have fallen and now lie in the northern and southern block yards.

1. Documentation of the abacus blocks

Of the original 134 abaci that rested on the capitals of columns inside the Hypostyle Hall, more than 17 are no longer in situ. Of these displaced abaci, Georges Legrain never re-erected about half of them after the 1899 earthquake caused 11 columns in the northern section of the Hall to collapse. Several columns in the southwestern quadrant of the Hall are missing their upper portions, including their abaci which now lie among other stone fragments on mastabas located in the southern block yard. Others, although replaced in their original position at the top of the columns by Legrain, are in such poor condition that they are held together with modern cement (fig. 1).
We systematically photographed all four sides of each abacus block *in situ* and the preserved faces of the blocks and fragments in the block yards. Most of these photos were taken with a high resolution digital camera from the ground by our photographer using a telephoto lens. Dr. Janusz Karkowski also photographed more than 20 abaci from our scaffolding in addition to the preserved faces of several abacus blocks in the block yards.

During the 1950s, the American Egyptologist Ricardo A. Caminos made hand copies of the inscriptions on nearly all of the *in situ* abaci in the Hypostyle Hall, except for column 134. These documents had lain for over half a century among the papers of Harold H. Nelson in the archives of the Oriental Institute of the University of Chicago when we rediscovered them in 2009 (fig. 2). Caminos' copies record the basic orthography of the cartouches and accurately reconstruct most of the palimpsest traces to be found on these abaci. His copies are not without defects. They are not true facsimiles and do not reflect the exact paleography of the signs. To avoid the monotonous task of recording each of the more than 400 individual cartouches on the *in situ* abaci, Caminos often resorted to the expedient of recording one example each of the nomen and prenomen cartouches on two of the four facets of a given abacus and labeled the remaining two as “same.” While it is true that in most cases the orthography of the two remaining facets is essentially similar, the hieroglyphs are often in the reverse orientation compared to the two sides he did copy. At other times, Caminos reversed the orientation of signs in the cartouches he drew from their actual appearance.

It was necessary to check Caminos' hand copies thoroughly for accuracy, a task we imagined would be relatively straightforward. During our collation, however, we discovered numerous epigraphically significant phenomena that Caminos had overlooked as well as minor errors in his records. Our collation noted the paleography, surviving traces of paint, iconoclasm, plaster, and other epigraphic data associated with the inscriptions. Among the most complex and historically significant features of these abaci cartouches were undoubtedly the palimpsests. As we discuss in more detail below, these included Ramesses II's reworking of his own early raised relief cartouches in sunk relief along the main axes in the southern wing and his usurpation of his father Sety I's cartouches on the first row of columns (abaci 74-80) north of the central nave.

Teams of two or three epigraphists collated the abaci inscriptions from the ground viewing them through binoculars. In the case of some of the more complex palimpsests, we were also able to inspect the abaci from atop our scaffolding. Dr. Karkowski also photographed and measured a representative sample of 22 abaci facets from atop the scaffolding and he used these to make scaled, orthogonal images (figs. 3-6). We are using these scaled photographs to make facsimile drawings of these facets with Adobe Illustrator software (figs. 7-8).

2. **Theodolite measurements of the abaci, clerestory and walls**

Since photography of all four facets of each of the 117 standing abaci from our scaffolding was impractical, we decided to employ a method developed by the CFEETK to produce orthostatically corrected photographs based on survey points taken with a theodolite and processed through the software program *Redresseur* developed by Yves Egel (ENSG/IGN). Dr. Cédric Gobeil measured points on most of the abaci in the Hypostyle Hall by this method using a Leica TCRP 1202+ R400 Total Station laser theodolite kindly lent to us by the Franco-Egyptian center. In collaboration with our colleagues at the Center who use this technique, Dr. Gobeil was able to test this method for rectifying photographs taken from the ground to make them appear orthogonal as if they had been taken directly in front of the abacus. If we are able to employ this technique on a widespread basis, it will be unnecessary to photograph the abaci from our scaffolding in the future.
As a first step, we took points on each abacus with the Total Station theodolite. Our goal was not to establish the exact position of each abacus within the general topographic system of the Great Hypostyle Hall, therefore, we did not have to place the Total Station on specific benchmark positions established in previous surveys. Instead, we were able to set the theodolite wherever we had the best possible view of the abaci – that is to say locations offering the smallest vertical angle in the device’s view of the abaci. To achieve this, we decided to use the Total Station from the top of the walls surrounding the Hypostyle Hall (the North and South walls and atop the Second and Third Pylons) and by setting it between two rows of columns. In this way, we were able to treat a large number of abaci from each spot.

Once we set the theodolite in place, we had to pinpoint six precise points on each abacus face using specific points on the hieroglyphic signs as landmarks. Here, precision was key to the success of this operation; therefore, we had to choose signs that had at least one sharp angle, like one corner of the mn sign (𓉈) or of the iri sign (𓉉). To maintain a high level of precision, we worked with Caminos’ drawings of the abaci on which we marked all the points we measured with the Total Station. After we recorded these points, the second step of the process was to upload all these data points and sort them in a computer at the CFEETK using Covadis software. The Covadis program is able to render both two-dimensional (2D) and three-dimensional (3D) virtual models that show the real distances between all the points.

We assigned each point a unique number that marked its location on each abacus facet. For example, we gave the first point taken on the west face of the abacus atop column 134 the number 134w1, the second point 134w2, etc. Next, we manually placed all of these calculated and named points on their corresponding location on each of our non-orthogonal photographs with the help of the software program Redresseur. The Caminos drawings were very useful for placing each named point in the exact position on the photograph that we had taken on the abacus with the Total Station. To ensure the highest degree of accuracy, we enlarged the images using the zoom feature of the Redresseur software in order to place the points on the image precisely. Once we had marked all six named points on the original picture, the Redresseur software was able to link these named points with the same ones we had previously calculated with Covadis and thereby to straighten the picture, giving it the appearance of an orthogonal image (figs. 9-10).

We also applied the same method (with six points taken) to scenes carved on the tall piers of the clerestory windows located above the central nave of the Hypostyle Hall, and on inscriptions on the very tall and narrow pilasters on the vestibule of the Third Pylon inside the Hall. These pilaster texts were so long and tall that we had to take three pictures of each and stitch them together using Photoshop. We were able to measure all these points from the top of the southern wall of the Hall as well as from the ground. These two other architectural elements were not too difficult to measure since they are flat; therefore, we only had to straighten the pictures using the same process we used for the abaci.

2 H.H. Nelson, Key Plans, OIP 56, 1941, pl. 4, figs 1-4; PM II2, p. 50.
3 Located at H.H. Nelson, op. cit., pl. 4, figs. 8b and 12b; loc., KB 172 and 355. Both pilaster facets are decorated with the names and titles of Sety I (KB 172) or Ramesses II (KB 355). They were not recorded in Nelson and W.J. Murnane, The Great Hypostyle Hall at Karnak I.1, The Wall Reliefs, OIP 106, 1981, hereafter GHHK I.1. These pilasters will appear in a forthcoming volume of translation and commentary to GHHK I.1.
3. Epigraphic findings on the abaci decoration

3.1. Palimpsests

Although they appear simple at first glance, the relief decoration on the abaci proved to be highly complex. Each abacus block in the Hypostyle is roughly square in plan with each of its four lateral sides having long rectangular panels decorated with large horizontal cartouches of Sety I or Ramesses II. In every case, both the nomen and prenomen cartouches of Sety I and Ramesses II have the epithet mr-Ḫmн, “beloved of Amun” written ḫr-w or ḫr-m (figs. 3-8). In addition to the invariable epithet mr-Ḫmн, Sety I appended a second epithet to his “standard” prenomen Mn-Mȝ’t-Rʿ, placed at the flat, tail-end of the cartouche (fig. 10). Most commonly this is ḥqȝ-Rʿ “image of Re”; ḫw-tr-Rʿ “heir of Re”; or lri-n-Rʿ “whom Re created.” Rarely, others appear including ḥqȝ-West “ruler of Thebes”; ḫqȝ-Ỉwnt “ruler of Heliopolis”; or stp-n-Rʿ “whom Re chose” (fig. 11).

Ramesses II used the same system of epithets in his earliest abacus inscriptions which were carved in raised relief along the two main axes in the southern part of the Hypostyle Hall during his first year as king (fig. 12). In this period, Ramesses II decorated the abaci in the first row of smaller columns south of the central nave (columns 67-73) and those along the north-south axis of the south wing (columns 16-17, 25-26, 43-44, 52-53, 61-62). These early cartouches have his nomen written invariably as Rʿ-ms-sw-mr-Ḫmн. His prenomen Wsr-Mȝ’t-Rʿ has one of the following epithets: ḥltr-Rʿ, ḫw’t-Rʿ, lrl-n-Rʿ or very rarely stp-n-Rʿ. This pattern of epithets is clearly derived from Sety I’s examples.

Twenty six abacus blocks in the Hall contain palimpsest cartouches on each of their four facets. In every case, the final inscription has the cartouches of Ramesses II carved in sunk relief using the longer form of his prenomen Wsr-Mȝ’t-Rʿ-stp-n-Rʿ which he adopted sometime during his second regnal year. However, both the original raised reliefs in these palimpsests and the final form of Ramesses II’s nomen cartouche varies from case to case.

3.2. Ramesses II’s conversion of his own raised relief abaci decoration

By the end of his first regnal year, Ramesses II began to carve his inscriptions in sunk relief and he soon adopted the definitive long prenomen Wsr-Mȝ’t-Rʿ-stp-n-Rʿ (fig. 5). He then erased his own early raised reliefs on abaci in the south wing and recarved all of them in sunk relief with his final prenomen replacing the earlier variants and with his nomen written Rʿ-ms-s instead of Rʿ-ms-sw (figs. 12, 13 and 14).

4 This pattern of converting bas relief decoration into sunk relief is well known from the wall reliefs on the south half of the west wall and the half of the south wall of the Great Hypostyle Hall. See K.C. Seele, The Coregency of Ramesses II with Seti I and the Date of the Great Hypostyle Hall at Karnak, SAOC 19, 1940, p. 50-60; W.J. Murnane, “The Earlier Reign of Ramesses II and His Coregency with Sety I”, JNES 34, 1975, p. 170-180; P.J. Brand, W.J. Murnane, The Great Hypostyle Hall at Karnak I.2, The Wall Reliefs: Translation and Commentary, forthcoming.

5 The nomen forms Rʿ-ms-s and Rʿ-ms-sw vary frequently throughout Egypt in the first year or so of Ramesses II’s reign. Beginning with the adoption of the long nomen, Ramesses II seems to have mostly used the nomen form Rʿ-ms-s in the southern part of Upper Egypt and Nubia from Thebes southwards until regnal year 21 when he began to use Rʿ-ms-sw. Rʿ-ms-sw was the dominant form in Lower Egypt, while Abydos seems to have been a “border zone” where both forms often co-exist freely. This basic pattern was first identified by K.A. Kitchen, “Aspects of Ramesside Egypt”, in Acts of the 1st International Congress of Egyptology, 1979, p. 383-389. A. Spalinger has documented the phenomenon: “Early Writings of Ramesses II’s Name”, CdE 83, 2008, p. 75-89; id., “Ramesses II at Luxor: Mental Gymnastics”, Orientalia 79, 2010, p. 425-79.

In Thebes, however, this pattern is not universal, and it is possible to find examples of both nomen orthographies co-existing in reliefs created after the adoption of the long prenomen but prior to year 21 in the Ramesside forecourt of Luxor Temple both on the south half of the east interior wall (PM II’, 202 [26] II; H.H. Nelson, Key Plans, pl. XXI G, 95) and on the façade of the Triple Shrine (PM II’, 209 Portico; H.H. Nelson, op. cit., pl. XXI B, 1-9), also discussed in R.E. Felegi, Features of the Early Relief Decoration of Ramesses II at the Karnak Hypostyle Hall and the Ramesside Forecourt at Luxor Temple (M.A. thesis, University of Memphis, 2011), p. 51-54.
3.3. Ramesses II’s usurpations of Sety I’s Abaci

A second group of palimpsests occurs on the first row of abaci north of the central axis (cols. 74-80) (figs. 5, 7). Sety I originally decorated these abaci with his cartouches, but Ramesses II later erased his father’s names and replaced them with his own in sunk relief. We discovered that Ramesses II did this in the later years of his reign, sometime after his 21st regnal year when his nomen had once again become Rʿ-ms-sw-mr-ỉmn in Upper Egypt. The sculptors who did this were hasty in their work. Typically, they had shaved back Sety I’s bas-relief incompletely and etched Ramesses II’s names in a crude fashion quite distinct from his more elegant sunk relief elsewhere in the Hypostyle Hall. Attesting to this haste, on the north face of abacus 80 they recarved Ramesses II’s prenomen incompletely (fig. 15). We suspect that these usurpations of Sety I’s cartouches on this row of columns was part of his larger program to annex all the cartouches in decoration along the main processional axis of the Second Pylon and central nave of the Great Hypostyle Hall in preparation for one of his jubilee festivals.7

3.4. Orientation of cartouches

Each facet of the abaci contains a single cartouche with the nomen or prenomen of Sety I or Ramesses II, together with the epithet mr-ỉmn written either 𓀧 or 𓀧. Of great significance is the orientation of this theophoric epithet naming Amun inside the cartouche, which is systematically written in the opposite direction from the remaining signs of the pharaoh’s name, both for the nomen and prenomen cartouches (fig. 16). In almost all cases, the name of Amun faces towards the outer limits of the temple. So in the southern wing of the building, mr-ỉmn faces towards the South (on the East and West facets) or West (on the North and South facets). In the northern half of the Hall, the orientation is reversed, with the epithet facing North (on the East and West facets) and West (on the north and south facets). This implies that the prenomen and nomen of the king face in the opposite direction, viz.: towards the inner limits of the temple, that is to say North and East in the southern half of the Hall; but South and East in the northern half. Such orthographies mimic wall scenes in which pharaoh and deity confront each other during the ritual. Generally, wall scenes were carefully oriented in the same manner so that the king stood as if entering the temple from the outside and looked inwards to the sanctuary where the god dwelled forever looking out. Moreover, as Spieser has shown, the royal names, especially cartouches, could represent the royal presence by themselves in absence of his anthropomorphic image.8

On a few abaci, discrepancies are noticeable in terms of the orientation of cartouches (fig. 17). In the southern part of the Hall, on abaci 18N, 19N, 19S and 28S, the two elements of the cartouches are reversed so that in these four isolated cases, the phrase mr-ỉmn faces towards the inner part of the temple to the East, instead

At Luxor, the Rʿ-ms-sw spelling is also found in the dedicatory texts on the south face of the pylon’s east tower: M. Abd El-Razik, “The Dedicatory and Building Texts of Ramesses II in Luxor Temple I: The Texts”, JEA 60, 1974, § 3, 9, 10, 13A, 14A-B, 15A-B, 17B. The Rʿ-ms-sw spelling, used along with the long prenomen, can also be found on the architraves of the Hall of Litanies in the Ramesseum, J.-Cl. Goyon, H. El-Achirie, Le Ramesseum, VI, La salle des litanies (R), CEDAE, 1974, pls. VIII, XIXa-b, XXIa-b; and the abacus blocks see ibid., pls. XXIXa-b, XIIIb,b, XXIVb,d, XXVb,d, XXVIb,d. The Rʿ-ms-sw spelling can also be found in some texts of the architraves in the Karnak Hypostyle Hall, in usurped texts accompanied by the long prenomen: V. Rondot, La grande salle hypostyle de Karnak: Les architraves, Paris, 1997, No. 7 (pl. 7), NE 42, and text seemingly carved after Year 2: ibid., No. 10 (pl. 5), No. 53 Sud (pl. 42), No. 69 (pl. 36).


of the West (fig. 18). Are these exceptions to the rule the results of mistakes made by the artists? If this be the case, considering the high number of inscribed abaci facets originally in place – amounting to more than 500 cartouches – the resulting percentage of mistakes would total less than 1%. It is hoped that further study will reveal whether this localized cluster of exceptional abaci are simply a fortuitous error or part of a deliberate plan.

Normally, each abacus block contains two *prenomen* and two *nomen* cartouches of the king engraved alternately on each facet of the block. In some cases however, there are further anomalies. For instance, on the abaci of columns 76 and 79, we find three *nomen* cartouches and just one *prenomen*. Adjacent to the former, column 75 does have the expected two *prenomen* and two *nomen*, on its four sides, but each type of cartouche appears on the “wrong” facet when compared to others nearby.

### 3.5. Paleography

A paleographical survey of the signs on the abaci revealed interesting details. For instance, it is quite obvious that more attention was paid, aesthetically speaking, to engraving the cartouches that were more clearly visible from the main axes of the Hall, than those that were concealed from viewers in the main aisles. A good case in point are abaci that face East in the two rows of columns in the southern half of the Hall that were furthest away from the secondary North-South axis. In many cases, such as on abacus 29E, the quality of workmanship leaves much to be desired.

Another feature worth mentioning is the way the size and shape of signs inside a cartouche may be determined by the size of the abacus. For example, on abacus 126N, all the vertical signs look particularly narrow and attenuated since they had to be squeezed into a shorter cartouche ring.

It is also interesting to note that some particular signs can show a great variety of shapes. Thus, examples of (Gardiner Sign List F44) display many subtle variants: the amount of meat on either side of the bone or the length and shape of the bone itself (especially its bulbous tips) can vary quite significantly from one example to the next (fig. 19). One almost has the feeling that there was not yet a canonized version of this hieroglyph. Even signs that are quite standardized like (Gardiner sign list Y5) display a fairly wide range of variants from one abacus to the next, even when they are used within the same pattern of the arrangement of signs. Thus the number of game pieces resting on top of (Gardiner sign list U7) varies from as few as five to as many as ten, with apparently greater variability under Sety I than Ramesses II (fig. 20). Other signs, like (Gardiner sign list N36) seem to display various stages of completeness (fig. 21). Finally, some identical signs sharing common morphological features are concentrated in specific areas of the Hall. For instance, on abaci 126E, 127E and 128E, the (Gardiner sign list U7) is uncharacteristically short, especially in comparison with the example on abacus 93N.

### 4. Documentation of the Column Scenes

One of the main goals of this season’s epigraphic work was to begin recording the ritual scenes present on the 127 standing columns in the Great Hypostyle Hall. During the 1950s, Harold H. Nelson created sketches of this decoration, but his drawings are highly schematic and preliminary and are not true facsimiles (figs. 22-23). He drew them as freehand sketches on graph paper without the aid of a photographic base that he had previously employed when he drew scenes on the interior walls of the Hall. The curvature of the column surfaces makes orthogonal photography impractical and Nelson’s Chicago House method impossible. He copied these column scenes in the years immediately before his death in 1954, by which time he appears to have completed drawings of all the 122 closed bud column scenes, but he never recorded those on the twelve great columns of the central nave. Thereafter, his sketches lay forgotten among his papers in the archives of the Oriental Institute in Chicago.
until we rediscovered them in 2009. Nelson’s objective was mainly to provide hand copies of the texts and some basic iconographic data from the scenes including the king’s ritual act along with his crowns and regalia and those of each deity present in the scene. Many details of the reliefs are wholly absent or at best highly abbreviated, including any offering table as well as the lower bodies and usually the garments of both the king and the gods. Any falcon or vulture that frequently appears above pharaoh’s head – where noted schematically in the drawings – is not rendered in any detail. Nelson’s sketches also omit much epigraphic data such as iconoclastic hacking, quarry damage, recutting, plaster and paint, or graffiti.

Despite their limitations, Nelson’s drawings are a remarkable achievement and stand as the only comprehensive attempt to record the huge body of over 350 separate column scenes in the Great Hypostyle Hall systematically. An objective during this season was to collate Nelson’s drawings against the originals both to check the accuracy of his copies and to document the epigraphic and iconographic data that he overlooked.

Our epigraphic method consisted of editing and annotating blueprints copies of Nelson’s drawings against the original scenes using a system of collation modeled on the Chicago House method. On these sheets we recorded the iconographic characteristics of the pharaoh and deities, along with the presence of paint, iconoclasm and recutting. Given the daunting scale of our task, these efforts were preliminary, but we were able to collate several dozen column scenes. Besides notes and drawings, the expedition also made detailed photographs of the column scenes which will further aid our research. We also made initial hand copies of all the caption texts from the 36 scenes on the twelve great columns of the central nave.

A further goal was to clarify our understanding of a number of chronological and epigraphic features of the column decoration. Amongst our findings, we verified the fact that all of the scenes showing Ramesses II present on the 12 great columns of the central aisle and the scenes on the small columns lying on the south half of the secondary North-South axis (columns 16-17, 25-26, 34-35, 43-44, 52-53, 61-62, 70-71) had originally been carved in the earliest part of his reign in raised relief but were later converted to sunk relief after he had adopted the long form of his prenomen cartouche. It is likely, too, that Sety I had created the painted drafts for these column scenes but his artists had not yet carved them in relief before his death.

The expedition also made detailed notes and sketches of palimpsests scenes found on columns 74-80, the first row of smaller columns north of the nave. Sety I had decorated these columns in bas relief, but Ramesses II later recarved them in sunk relief and re-inscribed the cartouches in his own name. Generally, Ramesses simply transformed Sety’s raised decoration into sunk relief by cutting over the earlier designs. It is likely that Ramesses II’s usurpations date no earlier than his 21st regnal year, and were probably effected on the occasion of one of his jubilees, since his nomen is always spelled Rʿ-ms-sw. Hallmarks of this work are Ramesses’ unusually large cartouches. In rescaling them, his sculptors were forced to make considerable alterations to

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9 The only other systematic publication of the column data are the indices compiled by L.-A. Christophe in his Temple d’Amon à Karnak. Les divinités des colonnes de la Grande Salle Hypostyle et leurs épithètes, Cairo, 1955. Christophe cataloged the names and epithets of the deities in all of the scenes as well as the so-called label texts, a caption appearing in most scenes which describes the king’s ritual act. He did not record the other caption texts accompanying the figures or the iconographic attributes of the scenes. Some data on the columns can also be found, although in much more abridged fashion, in: A. El-Sharkawy, Der Amun-Tempel von Karnak. Die Funktion der Großen Säulenhalle, erschlossen aus der Analyse der Dekoration ihrer Innenwände, Wissenschaftliche Schriftenreihe Ägyptologie, 1. 1997; H. Refai, Untersuchungen zum Bildprogramm der großen Säulensäle in den thebanischen Tempeln des Neuen Reiches, BeitrÄg 18, 2000, p. 77-150.
Sety I’s decorative scheme. Often, this led to the suppression of entire columns of raised relief texts. In at least one case, an ointment jar statuette the king offers to Amun was modified from a kneeling king to a crouching sphinx to accommodate the larger cartouches (figs. 24-25).

5. System of Decoration and Orientation of Scenes

The decoration of the Hypostyle Hall columns was begun during the reign of Sety I. Before his death, he had inscribed all of the columns in the North wing located on either side of the secondary North-South axis. Each of these columns received an offering scene oriented towards this axis (fig. 26). These are columns 81-134, except for col. 89, 98, 130, 131 and 133 that are no longer in situ. In the case of the columns of row 74-80, Sety added a second scene oriented towards the central East-West axis. He did the same with the southern face of columns 74-80 which were later usurped by Ramesses II, as well as with the eastern face of col. 77 and the western face of col. 78. In each of the scenes that Sety I carved in raised relief, the king offers to gods, usually Amun-Re or another male accompanied by a consort goddess, or less often a second male deity.12 On the great columns and in the South wing, Ramesses II went on to engrave similar scenes that also typically feature Amun-Re or another male deity usually followed by a goddess. In at least one case (column 13), however, the deified Sety I himself stands behind Amun-Re.

In their initial decorative state, the columns had only one or two scenes as in similar closed-bud papyrus columns in contemporary monuments like Sety I’s Gurnah temple, the Ramesseum and Ramesses II’s peristyle forecourt at Luxor Temple (figs. 27-28). Otherwise, the midsections of the Great Hypostyle Hall’s columns were devoid of further decoration until Ramesses IV inserted additional scenes – usually two per column where space was available – on the surfaces of the columns facing toward the exterior of the temple and counter to the orientation of the two main axes of the Hall (fig. 26). Ramesses IV never completed this project so there is a cluster of columns in the South-West quadrant of the Hall and two more shafts in the South-East corner lacking his additional scenes. Ramesses IV proved to be more creative than his predecessors in the layout and iconographic design of his scenes. Thus, the number of gods represented varies from just one to as many as four. Occasionally a secondary deity stands behind the king, a feature never seen under Sety I and Ramesses II.

Under Sety I, the orientation of the scenes is almost uniformly systematic. With the exception of column scenes 102A and 119A, the king always faces towards the South, i.e., towards the interior of the Hall, while the gods look towards the North. In the case of column 96, Sety’s relief is engraved on the eastern side of the column, which is a mistake, however this is probably the result of an error by Legrain when he re-erected this column after it collapsed during the earthquake of 1899.14 Ramesses II followed his father’s example by depicting his figure always facing towards the interior of Karnak temple, i.e., towards the north in the South wing, while on the twelve great columns he faces either towards the main axis or to the East.

Once again, Ramesses IV’s column scenes differ from those of his Nineteenth Dynasty predecessors. Ramesses IV’s image generally looks towards the West in the eastern half of the South wing of the Hall; the opposite being true on columns 72 and 73. Interestingly enough, it is near this part of the Hall (more precisely

13 See L.-A. Christophe, op. cit., pl. XXVIII.
14 Ibid., p. 4-5, n. 2.
on columns 62 and 64) that Ramesses IV had two scenes engraved, instead of one, even though Ramesses II had already carved two scenes on these columns. Is this, perhaps, where Ramesses IV had begun decorating the columns? These exceptions might then be understood as part of his attempt to devise a system of decoration for parts of columns that were never originally intended to receive such additional scenes. On the other hand, Ramesses IV did not inscribe the northern half of the Hall in any systematic way either. Whereas scenes in parts of the western section of the North wing are oriented according to the same logic as in the South, other rows of columns to the East do not show the same mode of orientation.

6. Iconoclasm

As is frequently the case with almost all Egyptian monuments that were occupied by people during Coptic and later times, evidence for iconoclastic hacking of representations of living beings (whether human or animal) can be found amid the decoration of the columns (fig. 29). Such defacement is detectable on the main royal and divine figures engraved in the scenes and on hieroglyphic signs in the caption texts. Areas inside the Hypostyle Hall where iconoclasm on the columns is concentrated can be divided up in two categories: the sections of the Hall close to the Second Pylon where late occupation (once the temple had been abandoned) is manifest and the sections of the Hall located near the two main axes.

6.1. Evidence of iconoclasm on the royal and divine figures inside the scenes

In most cases, iconoclasm takes the form of hacking to the royal and divine figures. Sometimes, the iconoclasts attacked only the faces. Various patterns of chisel blows are observable: the whole face may be hacked, the job having been done so meticulously that the outer contours of the profile and headdress remain clearly visible although interior details are obliterated (fig. 30). In other cases, the chisel men extended the zone of hacking to the negative space around the head in an indiscriminate fashion (fig. 31). In one instance, even Amun-Re’s double-feathered crown was chiseled. Most examples show that the nose, eyes, mouth, ears and neck have been

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17 Generally speaking, the temple of Karnak seems to have gone essentially through some architectural changes during Christian times rather than outright destruction as was for instance the case in the temple of Khnum at Elephantine (F. Arnold, “Götterdämmerung in Ägypten”, Antike Welt 36/6, 2005, p. 39-46) or elsewhere in Egypt. Cf. P. Grossmann, “Modalitäten der Zerstörung und Christianisierung pharaonischer Tempelanlagen”, in J. Hahn, S. Emmel, U. Gotter (eds.), op. cit., p. 315-316.

specifically targeted, in various combinations, presumably to render the images magically blind, deaf and dumb. In one case where the ear was not visible beneath the king’s wig, the iconoclast deliberately cut out the section of the wig under which the ear would have lain.

In many instances, iconoclasts also targeted the limbs of pharaoh and the gods, again to render them magically harmless. Arms, legs and especially feet may be discretely cut away, very often with a high degree of precision. Hacking can sometimes be found on the articulations of limbs only (wrist, ankle, and elbow joints) so as to make the royal or divine figure powerless to act or move. Finally, on very rare occasions, the small figure in the representation of pharaoh’s offering Maat was also hacked out.

6.2. Evidence of iconoclasm in the hieroglyphic texts

This is particularly obvious in the case of engraved inside the prenomens of Sety I, Ramesses II and Ramesses IV, as well as the anthropomorphic or zoomorphic hieroglyphic signs referring to the gods Re (𓊣) and Amun (𓊵) that are frequently used in the cartouches and epithets of the royal titulary. Whether represented seated on a throne or squatting on the ground, these gods are very often defaced in some way, both in the small cartouches identifying the king above his effigy inside a scene or in the series of large horizontal or vertical cartouches of Ramesses IV that embellish the upper shafts and capitals of the columns (fig. 32). Iconoclasts could go to great efforts to achieve their aims, as shown by mutilated cartouches located in positions very high above ground level, as on some abaci and architraves. In the case of the god Seth, the glyph representing him in the spelling of the name of Sety was also frequently removed, although there is some ambiguity as to whether this defacement happened in the Late Period when other images of the god were effaced inside the Hall or if the damage is post-pharaonic19. Chisel marks in such cases, however, do not seem to differ from those used on other hieroglyphs, which would rule out (at first glance at least) the Late Period damnatio memoriae, when Seth had become a symbol of foreign domination over Egypt. The iconoclasts also destroyed in whole or in part anthropomorphic or zoomorphic representations of figures used in hieroglyphic signs. Bird hieroglyphs, in particular, were frequently targeted by the image breakers (fig. 33); the same can be said of the determinative in the word nsw. In the case of the birds, mutilation is limited to their heads and feet.

7. The use of Orthophotography as a Means to “unroll” Columns

The aim of this part of the project is to produce an exhaustive and accurate orthophotographic documentation of all the columns in order to support epigraphic study as well as architectural analysis. Photographic unrolling of the decoration and frontal views oriented towards the four main directions are envisioned for each column (fig. 34).

The complete set of topographic and photogrammetric data required to produce such images was collected during two field campaigns in 2007 and 2008.20 The complete 3D model is currently ready while the photogrammetric data, collected during the second mission, is still being processed. With more than 4,400 photographic images, this undertaking was tremendous. Optimized tools and procedures are regularly drawn up in order to take into account the repetitive context of the columns, thanks to the collaboration of Yves Egels (ENSG/IGN)

and the support of the team at the Department of Imagery and Remote Sensing of that same institution. Each column has been photographed from 32 different positions – 40 for the tallest columns along the central axis – according to a protocol which guarantees a regular and optimal recovery of the pictures. This process, called aerotriangulation, consists of connecting identical points shown on different photos, in order to determine the orientation and precise location of the cameras in space. Some tasks, such as setting target points are done manually while others have been carried out semi-automatically, as is the case with the matching of common reference points on each image.

While computation is rather fast, extra time is sometimes needed to detect “errors” and correct them. The parameters of 85 columns have already been calculated and validated, making it thus possible to generate their complete unrolling. Because Egyptian column shafts have a curved outline, it was decided to unroll the perpendicular projection of their image on a cylinder model. The orthophotography thus produced gives a complete overview of all the scenes, texts and decorative motifs engraved on an entire column, but the scale of representation is not always consistent. For example, the upper and lower parts of the shafts are represented with the same scale in spite of the difference in their circumference.

Once the photogrammetric parameters have been defined, any point of view of the object can be chosen, in perspective as well as in orthogonal mode. Longitudinal sections across the Hall which are particularly helpful for architectural and masonry analysis will be drawn. Architectural breaks or continuities on columns can then be highlighted, providing new information on either techniques of construction or the chronology of the building phases of the Hall. Are columns regularly arranged? How many rows of drums does each column consist of? Is there any matching of the courses’ level from one column to the next? Fig. 35, for instance, which represents the northern elevation of columns 57 to 53, shows some interesting features. One notices, for example, that each column (drums and capital included) has an equal number of twelve courses which are respectively located at a fairly consistent height across all five of them. This coincidence is not surprising since the ground level was gradually raised in order to set up the blocks.

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21 Raphaële Heno is in charge of this department: http://www.ensg.eu/Imagerie-aerienne-et-spatiale-photogrammetrie-et-teledection.
The regularity of the masonry is also striking; drums are systematically made of two half cylinder-shaped blocks joined together, that are rotated by a quarter turn at every course. Such observations suggest that the columns were raised in a same constructive phase,\textsuperscript{24} despite variable spans.\textsuperscript{25} Further analysis carried out \textit{in situ} on other rows of columns inside the Hall will make it possible to put forward more definite conclusions.

Finally, among the greatest difficulties of photogrammetric recording, illumination was the most difficult feature to manage. It was in fact impossible to obtain homogenous lighting on cylindrical surfaces: some areas are directly under sunlight while others oriented to the north are always in the shade. These radiometric issues would have been solved by night shooting, associated with proper lighting; such process was unfortunately too complex and costly to be considered at the time. A compromise was to take all the pictures in the shade, even though such solution was unfavorable for recording some details. In spite of precautions taken while shooting the images, strong differences in contrast and color still remain on the pictures. These require radiometric corrections on the photographic assemblage of each column, as the treatment of a column in fig. 36 shows. A semi-automation processing system is being considered to solve this problem.

8. Recording of loose blocks from the Great Hypostyle Hall at Karnak

The study of loose blocks from the Hypostyle Hall was started by the late Dr. Murnane in the early 1990s. He selected 270 blocks in the open-air stores within the Karnak enclosure and mapped their locations. In 2000 he asked Dr. Janusz Karkowski to start systematic study of the blocks to add important information to the study of wall scenes and to determine whether it was possible to reconstruct individual scenes and establish their emplacement in the walls. This work continued in 2002 with Dr. Brand, who replaced Dr. Murnane after his death in 2000.

Dr. Karkowski’s work added a considerable number of blocks to those identified by Murnane. Some blocks Murnane had listed were eliminated as not belonging to the Hypostyle Hall. Once systematic documentation the blocks started, we decided that whenever possible the decorated faces would be recorded photographically. In cases where blocks lay so closely together that it was difficult to access a particular block for orthogonal photography, it was traced on a transparent film at a 1:1 scale and then the tracing was photographically reproduced.

After 2002 a significant number of blocks were transferred by the French-Egyptian Centre to new mastabas in the north-eastern corner of the Karnak enclosure from a hill between the Great Hypostyle and the Ptah temple, where they has been stored in disorder thereby providing limited access to them. During the process, a few new decorated fragments were discovered that has previously been hidden in the ground. All the blocks were arranged on the mastabas so as to facilitate orthogonal photography.

During the 2011 season, Dr. Karkowski photographed the blocks using a high resolution digital camera and a lens with a focal length of at least 50 mm to avoid spherical distortion. An angular measure was placed at the level of the decorated surface to scale the images. This makes it possible to correct the angular (\textit{i.e.} perspective)
distortion of individual photographs, which under field work conditions are almost never perfectly orthogonal to
the decorated surface. Additional control measurements taken previously and completed during this season permit
the accurate scaling of these photographs. Altogether he recorded 154 decorated blocks coming from the walls.

Our study of the blocks is ongoing, but at this preliminary stage we have established the exact position of
some of the blocks in the walls. The most spectacular example is the restoration of the inner (southern) face of
the lintel above the doorway in the middle of the north wall (figs. 37-38). Another architectural element estab-
lished up to now are two windows in the east wall by its south and north ends, which brought additional light
to the aisles of the Hall most distant from the clerestory windows of the axial processional way (fig. 39). Of the
partly preserved walls the best prospect of restoration are in the case of the uppermost register of the south wall.26

26 Nelson had reconstructed several episodes from the east wing of the south wall. See GHHK I.1, pls. 81-86.
Fig. 1. Abacus 59 south covered in large part with cement.

Fig. 2. Abacus 26, hand copy by Ricardo Caminos.
Fig. 3. Scaled photo of Sety I nomen cartouche on abacus 85 south. Iconoclasts have defaced Seth’s head.

Fig. 4. Unscaled photo of Ramesses II sunk relief nomen cartouche on abacus 15 west.
Fig. 5. Scaled photo of usurped Sety I *prenomen* cartouche on abacus 78 north.

Fig. 6. Scaled photo of Ramesses II palimpsest *prenomen* cartouche on abacus 17 west. Cf. fig. 8.
Fig 7. Drawing of usurped Sety I prenomen cartouche on abacus 78 north.

Fig 8. Drawing of palimpsest Ramesses II prenomen cartouche on abacus 17 west.
Fig. 9. Sety I prenomen cartouche on Abacus 134 west, before rectifying the image with Redresseur software.

Fig. 10. Corrected photo of abacus 134 west.
Fig. 11. Sety I abacus cartouche variants.
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Abacus | Ramesses II Nomen Palimpsest
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17S    |                             

**Fig. 12.** Ramesses II abacus cartouche variants.
Fig. 13. *Original* cartouche of Ramesses II with early $R'\,-\,-ms\,-\,-sw$ spelling (Ab. 13 east).

Fig. 14. *Palimpsest* cartouche of Ramesses II with later $R'\,-\,-ms\,-\,-s$ orthography over *original* cartouche of Ramesses II with early $R'\,-\,-ms\,-\,-sw$ spelling (Ab. 44 east).
Fig. 15. Palimpsest abacus 80 north (partially recarved). Cf. fig. 5 for parallel of a completely recarved cartouche.

Fig. 16. Typical orientation of abacus decoration in the Great Hypostyle Hall. Diagram of the Hypostyle Hall showing orientation of abaci cartouches.
Fig. 17. Diagram showing orientation of abacus cartouches in the Hypostyle Hall.
Fig. 18. Discrepancies in orientation of cartouches (from left to right ab. 17-20 north).

Fig. 19. Composite photo of variants of īwʿ-sign (Gardiner Sign List F 44).

Fig. 20. Composite photo of variants of mn sign (Gardiner Sign List Y 5).

Fig. 21. Composite photo of variants of mr sign (Gardiner Sign List N 36).
Fig. 22. Nelson’s sketch of a scene of Ramesses II on column scene 17 B.

Fig. 23. Nelson’s sketch of a scene of Ramesses IV on column scene 83C.
Fig. 24. Palimpsest relief from column 80A showing bas relief decoration of Sety I recarved as sunk relief by Ramesses II.
Fig. 25. Detail of column scene 80A showing palimpsest.
Fig. 26. Orientation of scenes in the Hypostyle Hall. Red arrows indicate scenes of Sety I, blue are Ramesses II and green represents Ramesses IV. The arrow points indicate the direction the king is facing.
Fig. 27. Undecorated sides of columns in south west quadrant of the Hypostyle Hall.
Fig. 28. Undecorated side of a column in the second hypostyle hall of the Ramesseum.
Fig. 29. Typical example of iconoclasm on a column.

Fig. 30. Iconoclasm with hacking carried out meticulously as to preserve contours of face.
Fig. 31. Iconoclasm with hacking carried out indiscriminately (col. 108Aa).

Fig. 32. Hacking of $m:\mathfrak{t}$ figure and sign on upper part of column shaft.

Fig. 33. Hacking of $\mathfrak{wr}$ birds (Gardiner Sign List G 36) on column 129Aa.
Fig. 34. Unrolled image and four orthogonal views of column 126.

Fig. 35. Orthogonal view of columns 53-57 showing the courses of masonry in each column.
Fig. 36. Unrolled image of column 108 after radiometric corrections.
Fig. 37. Scene from the lintel of the north gateway reconstructed from blocks. Drawing by J. Karkowski.
Fig. 38. Detail of reconstructed lintel.
Fig. 39. Reconstruction of a window in the north half of the east wall. Drawing by J. Karkowski.
ENGLISH SUMMARIES

MICHEL AZIM, AGNÈS CABROL †, AUDE DOBRAKOWSKI, LUC GABOLDE
Publication of two photographs (calotypes) of Fr. de Campigneulles taken in the central part of Karnak, and purchased by the Musée d’Histoire Naturelle of Lille (France). One of them shows a mysterious sphinx, now lost. Study of the latter leads to the hypothesis that it may be a representation of Amun.

MANSOUR BORAIK
The excavations along the ancient road were divided into several sectors including the rams before the gate of Euergetes; these excavations have brought to light significant information concerning the history of east Luxor. This sacred road, built by Nectanebo I, was probably used for the procession from Karnak to Luxor temple during the Opet festival, and was in use until the end of the Roman period. During the Ptolemaic period, many restorations and constructions in both Karnak and Luxor were achieved via the use of this sacred road. Such continuation of work opened up opportunities for economic and cultural development in the city for years to come.

MANSOUR BORAIK
Recent excavation in front of Karnak temple sheds light on Roman life in Luxor through the discovery of a large bath complex. The excavated remains of this thermae cover some 300 m² and include many archaeological features, such as the well-preserved bathing pools. Most of the walls of the superstructure now stand less than a metre high, but some of the fired brick walls of the substructure are 3 metres tall. The thermae were remoulded and redecorated over what appears to be a long period of use, adding to the challenge inherent in understanding the history of the complex. The rooms of the thermae are laid out axial sequence. Much of the complex, including its foundation, was built of fired brick. Key features of the Karnak thermae, moving east to west,
include well-built drains, leading to *loutra* (water plunge pools), an extensive *hipocaustum*, and a *praefurnium*. The presence of two distinct *caldaria* suggests that the Karnak *thermae* had discreet sections for female and male bathers. This hypothesis is supported by the large number of glass bracelets and other feminine jewelry discovered in the drains on the southern side of the complex. Further excavations will reveal the full plan of the *thermae* and test this hypothesis.

Mansour Boraik, Salah el-Masekh, Anne-Marie Guimier-Sorbets, Bérangère Redon

“*Ptolemaic Baths in front of Karnak Temples. Recent Discoveries (Season 2009-2010)*”, p. 47-77.

The article presents new results from the excavations of the Karnak baths during the 2009-2010 seasons. The building was uncovered in 2006 by the SCA during rescue excavations, and a preliminary report was published in 2009. Since then, excavations have continued and led to the discovery of the baths’ heating system. In the first part of the article, this structure is described and interpreted in light of recently uncovered comparanda in Egypt, particularly at Taposiris Magna. We show the ingenuity of the heating devices in such Graeco-Egyptian baths by presenting one of the most ancient and well-preserved systems found in Egypt.

In the second part, the study focuses on the decoration of the baths, in particular on the mosaic floors and wall paintings. After a careful description of the whole decorative programme, which is identified with the “structural style”, we examine the technical aspects of their construction. Finally, we show that their luxury evokes Greek and Macedonian examples, such as the palace of Philip II of Macedon, father of Alexander the Great.

Mansour Boraik, Mohamed Naguib

“*Ceramic Material from the Ptolemaic Baths Excavations in front of Karnak Temples*”, p. 79-191.

In 2007 the Ministry of State for Antiquities started excavations to the north-west of the first pylon of Karnak temple, within the framework of the refurbishment programme of the sector located between the temple of Karnak and the Nile. The material presented here represents five different historical periods: Late period, Ptolemaic period, Roman period, and Islamic and Ottoman periods. The ceramic material is composed of different fabrics (clays), local and imported, and it was used for diverse purposes: storage, transportation, cooking, tableware, lighting etc. Study of this pottery corpus makes a vital contribution towards dating the site and also helps to model daily life in an area that was very active during the Graeco-Roman period.

Peter Brand, Jean Revez, Janusz Karkowski, Emmanuel Laroze, Cédric Gobeil

“*Karnak Hypostyle Hall Project, Report on the 2011 Field Season for the University of Memphis & the Université du Québec à Montréal*”, p. 193-229.

During a six week field season in May and June of 2011, the Karnak Hypostyle Hall Project began to record inscriptions on the columns and abacus blocks of the building. This consisted of detailed collation of earlier records of the abacus blocks made by Ricardo Caminos in the 1950s and systematic photography of all the abaci facets in situ and of those now lying in the block yards. Many of the abaci have palimpsest inscriptions of erased Sety I or early Ramesses II inscriptions replaced by later Ramesses II reliefs. Orthogonal images of a representative sample of abaci facets were made in the block yards and from our scaffolding. Theodolite measurements of abaci facets and wall reliefs were also taken and a successful experiment was made to make a conventional photograph into an orthogonal one using the software program *Redresseur*. Collation of early
sketches of the column scenes by Harold Nelson yielded a wealth of new epigraphic data, including palimpsest inscriptions on some of the columns. Study of the abaci and column scenes also gave us new insights into the orientation of decoration, chronology of the relief decoration and post-pharaonic iconoclasm. Work also continued to produce “unrolled” and orthogonal images of the columns based on photogrammetric data obtained in 2007 and 2008. We also continued our earlier work to record inscribed blocks that have fallen from the upper levels of the walls that now lie in the northern and southern block yards.

JEAN-FRANÇOIS CARLOTTI, PHILIPPE MARTINEZ


This study attempts to bring a new perspective to the history of the great hypostyle hall in Karnak. Different clues, architectural as well as epigraphic, either new or previously unconsidered, show that the monument as we know it is the result of modifications and alterations spanning many decades and different reigns, beginning with a primary project launched by Amenhotep III. If a projected high colonnade, similar to the one built at Luxor Temple, was never finished, the space thus delineated seems then to have been occupied by a peristyle court surrounded by pillars of *talatat* mainly bearing the name of queen Nefertiti. Tutankhamun, (perhaps Aÿ) and Horemhab then dismantled this structure and reused its foundations to support a new peristyle adorned with columns. It is only during the reigns of the first Ramessid kings that it was transformed again into a fully covered hypostyle hall; this should be understood as a truely Ramessid invention. Although this presents a coherent account of architectural development, a number of important historical questions remain open, especially when the numerous traces of erasure and deliberate damage are taken into account; these situate parts of the structure in the whirlwind of Amarna desecrations. Although this article offers a workable hypothesis that tries to integrate all the available evidence, a central aim is to reopen debate concerning the history of the monument to which other scholars will contribute.

SILVANA CINCOTTI


This article treats statues held in the Museum of Egyptian Antiquities in Turin that were discovered in Egypt by Jean Jacques Rifaud on behalf of the French consul Bernardino Drovetti. Research undertaken in Geneva on the unpublished manuscripts of Rifaud, as part of a PhD on the statues in the Turin museum, has permitted, as a first step, important information regarding the location of the standing statues of the goddess Sekhmet to be brought to light; in his report on the excavation, Rifaud says that he found the standing statues in the temple of Ptah, located north of the sacred precinct of the temple of Amun-Re at Karnak.

ROMAIN DAVID


This article focuses on ceramics coming out of a securely dated Vth century layer from a small dwelling within the enclosure of the Ptah Temple at Karnak. An indicative typology provides information on the main production activities in such contexts.
CATHERINE DEFERNEZ

“Remarques à propos de quelques vases Bès découverts à Karnak”, p. 297-331.

This paper puts forward a few examples of well-preserved Bes-pots that were recently uncovered at Karnak in the upper levels of the debris of the Treasury of Shabaka. Dated to the Ptolemaic period (possibly to its first half), these pieces offer new evidence for this specific class of pottery. Otherwise rarely attested, these Bes vessels, which were manufactured in Nile clay, are not clearly recognizable because of their schematic decoration. This consists of, for example, the marking of eyes by fingerprints and, in some cases, a nose seems to be created by a slight pinching of the outer wall.

Most of the occurrences of this vessel-type identified at Karnak are presented here; these were found in several areas of the Amun-Re temple, as well as North and South Karnak. Some similar vessels were also recently recorded in the Mut Temple. Some closed shapes found at other sites in the Theban area are also included, as well as those discovered in several areas outside Thebes, particularly in the Delta; for example, reports which mention such vessels from several sites in the eastern part of the country are assessed.

Despite the small number of pieces, these Bes-pots are significant, and their analysis shows a major development in this class of pottery. They also provide new data for the classification established in a previous study, which was based on findings from the Persian site of Tell el-Herr.

Didier Devauchelle, Ghislaine Widmer


Publication of a fragmentary sandstone block discovered in 2010 in the excavated material lying over the Ptolemaic baths in front of Karnak temple. The inscription, which could be a dedication, includes mention of the Greek title hiereus transcribed into Demotic for which very few examples are otherwise attested, thus providing new evidence for the cultural mixing in this area at the beginning of the Roman Period.

Amr Gaber


This article investigates a corpus of documents which reflect the different strategies deployed in the deification of Sety I in the Nineteenth Dynasty. Analysis of these different documents, both epigraphic and iconographic, elucidates features of his deification, not only during his lifetime but also his posthumous deification by his son Ramesses II. These documents mainly come from the temples of Seti I at Abydos and Qurna, and the great hypostyle hall at Karnak. A comparative analysis of these documents with those of other deified kings is presented. A group of documents which present the veneration of Sety I are also discussed.

Luc Gabolde


It has been recently and often proposed that the enveloping masonry which surrounds the obelisks of Hatshepsut in the Wadjyt hall, hiding their lower parts, should be dated to her reign, having been erected for religious or architectural reasons. However, close reexamination of these arguments shows that they do not have a convincing basis. The previous attribution of this enveloping masonry to the reign of Thutmose III remains the most likely thesis; it is also the most convincing in respect to the texts dealing with the building activity in this area, and should be definitely preferred.
Jérémie Hourdin

“À propos de la chapelle d’Osiris-Padedankh de Chapenoupet II. Un apport à sa reconstitution épigraphique et architecturale”, p. 401-423.

Publication of new archaeological material found recently on the avenue of Sphinxes, between the temples of Karnak and Luxor. Some of the newly discovered blocks come from an already known Osirian chapel – the chapel of Osiris-Padedânkh (firstly published in Karnak-Nord IV in the 1950s) – and are elements of its doors and walls. Reconstructions of these features are presented, enhancing knowledge of the chapel. This monument was constructed under the pontificate of the god’s wife Shepenwepet II during Tanutamon’s obscure rule. Some other unidentified blocks are also published here to enable analysis and identification.

Charlie Labarta

“Une stèle de Ramsès II au magasin Cheikh Labib à Karnak”, p. 425-436.

This article publishes a fragmentary pink granite stèle of Ramesses II, which had been carved on the rear surface of an offering table of Mentuhotep II. It was found between the IIIrd and IVth pylon at Karnak and is currently held in the Sheikh Labib magazine. The inscription begins with mention of year 37 of Ramesses II, the date of his third jubilee; although a large part of the text is missing, the lower half preserves a speech of Amun, which contributes to the study of the royal eulogy during the XIXth dynasty.

Nadia Licitra


In April 2012, a new stela of Ramesses III was discovered on the site of the Treasury of Shabaka. Its text commemorates the reconstruction of the enclosure wall of the temple of Amun during his reign, giving new information about the location of the northern section of the wall at the beginning of the XXth dynasty.

David Lorand

“Une ‘Chapelle des Ancêtres’ à Karnak sous Sésostris I?’”, p. 447-466.

Senwosret I undertook, during his 45-year reign, a nearly systematic re-building of the main divine temples of ancient Egypt. The cult place of Amun-Re in Karnak was not neglected. Among the various remains of the limestone temple and chapels, several statues dedicated by Senwosret I were excavated at the beginning of the 20th century. Three of them represent royal ancestors from the Old Kingdom and the Late First Intermediate Period. The statue Cairo CG 42004 of king Sahura and the statue of Prince Antef-Aa Cairo CG 42005 were found in Karnak, while a third one, representing king Niuserra, whose provenience is unknown (British Museum EA 870), probably also comes from the temple of Amun-Re. The dedication of former kings’ statues is part of a vivid royal interest in the past at the beginning of the 12th Dynasty in order to define the political ideology of the ruler. The three statues must have been kept in one or several room(s) of the Middle Kingdom temple of Amun-Re, probably in a structure anticipating the “Chapel of Ancestors” erected in the Akh-menu by Thutmose III.
Christophe Thiers

“Membra disiecta ptolemaica (II)”, p. 467-491.

Publication of loose blocks belonging to monuments built at Karnak during the reigns of Ptolemy IV Philopator, Ptolemy VI Philometor and Ptolemy VIII Euergetes.

Christophe Thiers, Pierre Zignani


During 2010-2012, excavations were conducted at the Temple of Ptah at Karnak. The work mainly focused in the southwestern part of the precinct, and inside the chapels and courtyard of the sanctuary. This preliminary report presents the traces of different developments in the environment of the temple during its long use, up to its secondary occupation after the end of the Pharaonic worship.

These preliminary investigations concern:

– the remains prior to construction of the sanctuary of Tuthmosis III (a gate of Senakhtenre Ahmose and massive mud-brick walls beneath the substructure of the temple);
– limestone bearing slabs which were reused as the floor of the chapels and the courtyard;
– limestone blocks of Tuthmosis III and Hatshepsut which were reused in the foundation of the temple;
– Ptolemaic and Kushite gates associated with mud-brick enclosure walls on the main axis and on another southernmost axis;
– the late Roman and secular occupation of the area.
معبد بتاح بالكرنك – المعطيات الأولية عن الموقع

BEGIN TEXT

بعد أعمال الحفائر موسم 2010 - 2012 بمعبد بتاح بالكرنك وتم تركيز العمل بالمنطقة جنوب غرب الموقع، وداخل المقاصير. وكذلك قسم الأقداس، وهذا التقرير المبكر يقدم بقايا تطورات مختلفة بالبيئة المحيطة بالمعبد خلال فترة استخدامه الطويلة وحتى فترة استغلاله الثانية بعد نهاية العبادة الفرعونية، والفحوص الأولي والدراسات الأولى كانت للبيئة الأولية لقصور تسوس الثالث (بواحة سندت ان رع أحم واسوار ضخمة من الطوب اللبن أسفل المباني السفلية للمعبد) البلوكات الحاملة من الحجر الجيري والتي تم إعادة استخدامها في أرضية المقاصير والفناء – بلوكات الحجر الجيري لتحو نس الثانى وحتشولوت والتي أعيد استخدامها في أساس المعبد بوايات العصرين الكوشي والبطلمي والمرتبطة بأسوار الخانق المحيط بالمعبد على المحور الأساسي والمحور الآخر الجنوبي – فترة الاستيطان بالمعبد على المحور الأساسي والمحور الآخر الجنوبي – فترة الأستيطان في العصر الروماني هذه المنطقة.

END TEXT
Charlie Labarta

 لوحة للملك رمسيس الثاني بمحمية الشيخ لبيب بالكرنك

ينشر المقال لجزء من حجر الجرانيت للوحة من عصر رمسيس الثاني والتي تم نقشها فوق سطح مائدة قرابين من عصر منحوتيات النزاع، وقد عثر عليها بين القرن الثاني والرابع بالكرنك ومحفوظة حالياً بمتحف الشيخ لبيب في ليف. وبدأ الالتقاس بالعام 37 من حكم رمسيس الثاني - تاريخ عهده الاليبي الثالث على الرغم من أن جزء كبير من النص مفقود - أما النصف الأسفل فيحمل كلام لأمون والتي تساهم في دراسة الشعائر الملكية خلال عصر الأسرة.

Nadia Licitra

إصلاح سور معبود أمون في عهد الملك رمسيس الثالث: لوحة جديدة مكتشفة بالكرنك

تم الكشف في أبريل عام 2012 عن لوحة من عصر رمسيس الثالث بموقع كنز شباكا، والنص باللوحة يؤرخ لإعادة بناء السور المحيط بمعبد أمون علائ عصره ويعطي معلومات جديدة عن موقع القطاع الشمالي هذا السور.

David Lorand

مقصورة الأجداد بالكرنك من عهد سنوسرت الأول

لقد بدأ سنوسرت الأول خلال حكمة والذى إستمر لأكثر من سنتين في إعادة بناء منظم لمعابد مصر القديمة ولم ينسى بالطبع المكان المقدس لأمون رع بالكرنك ومن بينه العديد من البقايا الحجرية المشيد من الحجر الجيري مثل المعابد والمقصورات. وأربعت العديد من التهابيل والتي قدمها سنوسرت الأول والتي تم إكتشافها في بداية القرن العشرين، وثلاثة من هذه التهابيل تمثل أجداده، وتم اكتشافهما من قبل الحكومة المصرية وتم إعادة بناء السور المحيط بمعبد أمون رع في عصره ويعطي معلومات جديدة عن موقع القطاع الشمالي هذا السور.

Christophe Thiers

Membra disiecta ptolemaica II

هذة المقالة تنشر للبلوكات الواقعة والتى كانت جزء من أثار شيدت بالكرنك خلال عصور بطليموس الرابع (قليوباترا) وبطليموس السادس (فليوباترا) وبطليموس الثامن (بورجيسي).
Didier Devauchelle, Ghislaine Widmer

بالكتابة الديموطيقية بالكرنك *hiereus*

تشير المقالة إلى منطقة من الحجر الرملي تم الكشف عنها في حفائر الحمام البطلمى أمام الكرنك عام 2010م، والقطعة عليها نقش، والذي ربما يكون جزء من تقدمة تحمل لقب إغريقى مترجم إلى الديموطيقية والتي ليس لدينا منها الكثير من الأمثلة الآن، وهي تقدم بمذبب جديد من المزج الثقافي لهذه المنطقة في بداية العصر الروماني.

Amr Gaber

مظاهر تأليه الملك سيتي الأول

المقال يفحص أصل الوثائق التي تعكس الطرق المختلفة التي تم توظيفها لتقديس سيتي الأول من ملوك الدولة الحديثة الأسرة التاسعة عشرة. وتحليل تلك الوثائق المختلفة سواء مرسومة أو مصورة سوف يوضح أن تقدير لم يكن في حياته ولكنه بعد مماته، وبواسطة إبنه رمسيس الثاني وقد جاءت هذه الوثائق أساسا من معبد في أبيدوس والقرنة وصاله الأساطير بمعبد الكرنك - بالإضافة إلى ذلك فهناك تعليق عام ينبه في هذه الوثائق وتقدير تقدير ستيني الأول.

Luc Gabolde

ملاحظات على كساء مسلات صالة واجيت وتأريخه

لقد أضحى حديثاً أن الأحجار المحيطة بمسلات حتشبسوت في صالة «الواجيت» وتحفي أجزائها السفلية ترجع لنفس عصر هذه الملكة وانتما إلى أساس من معبده بابدوس، ولكنه إعادة دراستها يوضح أن هذه الأحجار ليست من عصر حتشبسوت، بل تعود إلى الأحجار المحيطة بمعبد الكرنك، ولكن هناك تعليق عام ينصح في هذه الوثائق وتقدير تقدير ستيني الأول.

Jérémy Hourdin

مقصورة أوزوريس-با جد عنت لشببت الثانية، إضافة لإعادة بناء النقوش والعوارية

هذا المقال ناقش بعض من الدلائل الأثرية تم اكتشافها بحوار أحمد أبو الهول بين معابد الكرنك والأقصر حيث جاءت بعض هذه النقوش المقوسة من مقصورة لأوزوريس معروفة وهي مقصورة «أوزوريس-با جد عنت» والتي تم نشرها عام 1950م، بعض هذه البلوكات كانت أجزاء من أبواب هذا الأثر وقد تم إعادة تكيب هذه القطع بالفاصلة، وفيماشيا مع معلوماتنا عن هذه المقصورة وقد تم إنشاء هذا الأثر خلال عصر الزوجة الإلهية «شميل إم أون» خلال عصر أمون، وأخيرا فهناك بعض النقوش التي نشرها لمزيد من المعرفة.
تعني هذه المقالة تباثيل موجودة بمتحف الأثار المصرية بتورين والتي كانت قد اكتشفت بمصر بواسطة Jean Jacques Rifaud الفرنسي، والتي أجريت بجنيف على المخطوطات الغير منشورة لBernardino Drovetti. في تقريره عن الحفائر أنه عثر على تباثيل الواقفة في متحف تورين، وقد أوضحت معلومات هامة بخصوص موقع التباثيل الواقفة لسخمت. فيقول Rifaud في تقريره:

معبد ناحية الشمال معبد أمون رع بالكرنك.

Romain David
فخار استيطان من القرن الخامس بالكرنك

هذه المقالة تشير إلى الفخار الذي يرجع للقرن الخامس الميلادي في الطبقات التي تعود هذا العصر من منطقة سكانية داخل معبد ناحية بالكرنك. والتصنيف الأول يضيف معلومات عن وجود نشاط صناعي في هذه الطبقات بالموقع.

Catherine Defernez
ملاحظات بخصوص بعض أواني بس المكتشفة بالكرنك

تهدف المقالة إلى دراسة مجموعة من الأواني المحفوظة جيدًا من أواني الإله بس والتي تم الكشف عنها في المستويات العليا بالرديم أعلى حجرة كنوز شباكا، وهي ترجع للعصر البطلمي (أربعة النصف الأول). هذه القطع تمت دليل جديد هذا المستوى من الفخار، ومن ناحية أخرى لم يعثر على الكثير منها، أواني معبد هذه والتي صنعت من طين نيل من الصبب التعرف عليها بسبب أساليب تزخرفها المهم والتي تكون كمثال من تحديد العيون بواسطة طبع الأصبع في بعض الأحيان الألوان، وفي بعض الأحيان الألوان، وكذل ذلك شهب جنوب الكرنك، وقد عثر على بعض تباثيل هذه الأواني في عيد موت.

بعض الأشكال المغلقة عثر عليها في مواقع مختلفة في منطقة طيبة تشمل أيضاً نايحة مشابهة في أماكن أخرى خارج طيبة خاصة في الدلتا خاصة وإن هناك بعض التقارير تؤكد العثور على مثل هذه الأواني شرق البلاد. وعلى الرغم من العدد القليل من القطع فإن أواني بس تعتبر فريدة ودراستها تتضمن تطور في بعض المستويات من الفخار، وتضيف معلومات جديدة بطرق التصنيف السابقة والتي إعتمدت على بعض الأواني من العصر الفارسي في تلك الخبرة.
الأواني الفخارية من حفائر الحمامات البطلمية أمام معابد الكرنك

باشرة الدولة لمشروع تطوير المنطقة الواقعة بين معبد الكرنك ونهر النيل، والمقالة تقدم فخار من خمسة عصور تاريخية: العصر المتأخر والعصر اليوناني والعصر الروماني والعصور الإسلامية والعثمانية، ويرجع الفخار لأغراض مختلفة مثل التعزيزات والنقل وأواني طبخ المائدة والإشارة وغيرها. إن دراسة الفخار هامة جداً في المساعدة في تاريخ الموقع وتساعد في دراسة الحياة اليومية في المنطقة والتي كانت نشطة خلال العصر اليوناني الروماني.

Peter Brand, Jean Revez, Janusz Karkowski, Emmanuel Laroze, Cédric Gobeil

مشروع صالة الأعمدة بالكرنك - تقرير عن موسم 2010-2011 بجامعة مونتريال

بدء مشروع دراسة الأعمدة بالكرنك في عام 2010، والذي استمر لمدة ستة أسابيع، إن الهدف من المشروع هو تسجيل النقوش على الأعمدة والدعامات التي تعلوها، ولقد قام بها فيرغي وскور في عام 1950. وتم التعقب العلمي لكل النقوش المختلفة في الأعمدة والدعامات، حيث تم التعرف على النقوش من خلال أخر القياسات والأدوات، ولقد أتم المشروع التوثيق بالنبات والتحريات، وأظهرت النقوش الموجودة في الأعمدة معلومات قيمة عن تاريخ نقل النقوش، وذلك من خلال ما قام به هارولد نيلسون، وأعطى فكرة جديدة عن إتجاه الزخرفة وتاريخ نقلها. وتم استخدام الأعمدة لدراسة النقوش، وتم تحقيق معلومات قيمة عن نقل النقوش، وتم استخدام هذه الأعمدة لدراسة النقوش، وتم تحقيق معلومات قيمة عن نقل النقوش.

Jean-François Carlotti, Philippe Martinez

ملاحظات جيدة على العمارة والنقوش بصالة الأعمدة الكبرى بمعبد آمون رع بالكرنك

تهدف الدراسة إلى إعادة إلقاء الضوء على تاريخ صالة الأعمدة الكبرى بالكرنك، حيث توجد العديد من القرائن سواء معمارية أو نقوش غير مدرسة، وتم التحقق من هذه النقوش من خلال بقايا الأثر، حيث تم تحريات النقوش في الأعمدة، ولقد تم استكمال أعمال الدراسة في موسم 2008-2007، حيث تم التحقق من النقوش، وتم تحقيق معلومات قيمة عن نقل النقوش، وتم استخدام هذه الأعمدة لدراسة النقوش، وتم تحقيق معلومات قيمة عن نقل النقوش.
تم إضافة نجع الحساسنة إلى مشروع تطوير ساحة الكرنك بعد تعويض الأهالي عن الأرض التي كانوا يقيمون عليها وإجراء الحفائر في هذه المنطقة تم الكشف عن حمام روماني كبير يشغل مساحة أكثر من ثلاثمائة متر مربع. وتم الكشف عن العديد من القطع الأثرية منها أساور زجاجية وخواتم وأقراط نسائية توضح أن الحمام كان يُستخدم للرجال والنساء كا ثمة على العديد من الأوانى الفخارية المختلفة الأشكال والأحجام والتي توضح طول الفترة الزمنية التي استخدم فيها هذا الحمام.

والكتابة هي تقرير مبدئى عن الحمام الرومانى أمام معابد الكرنك، حيث أن الحفائر مازالت مستمرة والتي ستوضح التنوع المنطقي المعماري الكامل لهذا الحمام الفريد والذي يعكس الحياة الاجتماعية خلال العصر الرومانى في المنطقة الغربية لمعابد الكرنك والتي كانت تشكل أهم مركز ديني سواء للمصريين أو الرومان في ذلك العصر.

Mansour Boraik, Salah el-Masekh, Anne-Marie Guimier-Sorbets, Bérangère Redon

الجبيل، المغราย، نجع الحساسنة – الاكتشافات الحديثة موسم (2009–2010)

الملخصات العربية

Michel Azim, Agnès Cabrol, Aude Dobrakowski, Luc Gabolde

لغز تمثال لأبو الهول

نشر المقالة صورتين تم إنقاذهما بمعرفة فرانسوا شامبيليه في القطاع الأوسط لمعبد الكرنك والصور من مقتنيات متحف التاريخ الطبيعي في مدينة تل بفرنسا (Musée d’Histoire Naturelle of Lille, France) واحد من هذه الصور تمثل تمثال أسطوري لأبو الهول مفقود الآن والدراسة توضح لنظرة أن يكون هذا تمثال لأمون.

Mansour Boraik

حفائر طريق أبو الهول التقرير الثاني

استمرت أعمال حفائر طريق أبو الهول في عدة قطاعات مختلفة، تعليم أهمها القطاع الواقع خلف مكتبة الأقصر العامة، والقطاع الممتد من طريق المطار وحتى نهج أبو عصبة وقد أضافت الحفائر الكثير من المعلومات عن تاريخ طيبة منذ العصور الفرعونية وحتى العصر الحديث، حيث تم الكشف عن العديد من الأنشطة الإنسانية التي كانت على جانبي الطريق خلال العصور اليونانية والرومانية - كما تم الكشف عن إمتداد السد الكبير والذي كشف عنه أمام معبد الكرنك إلى الغرب من طريق الكباش الذي يقع أمام بوابة ورجنوس مما يؤكد أن معابد الكرنك كانت مشيدة فوق مايشبه الجزيرة، وإن حفائر طريق أبو الهول تفتح المجال مستقبلا للبحث إلى النحو الاقتصادي والمالي لمحافظة الأقصر ويبعد المقال إلى الحديث عن أهم الكتشفات على طول هذا الطريق المقدس والذي تم الكشف عن جميع قطاعاته إلا القطاع الأخير والذي يقع أمام مسترال الأقصر والذين يجري به العمل الآن.
Romain David
فخار استيطان من القرن الخامس بالكرنك

Catherine Defernez
ملاحظات بخصوص بعض أواني بس المكتشفة بالكرنك

Didier Devauchelle, Ghislaine Widmer
بالكتابة الديموطيقية بالكرنك hiereus

Amr Gaber
مظاهر تأليه الملك سيتي الأول

Luc Gabolde
ملاحظات على كساء مسلات صالة واجيت وتاريخه

Jérémy Hourdin
مقصوره أوزير – يأ جد عنيخ لشبناوت الثانية، إضافة لإعادة بناء النقوش والعبرة

Charlie Labarta
لوحة للملك بسمسم الثاني بمخزن الشيخ لبيب بالكرنك

Nadia Licitra
إصلاح سور معبد أمون في عهد الملك رمسيس الثالث: لوحة جديدة مكتشفة بالكرنك

David Lorand
مقصوره الأجداد بالكرنك من عهد سنوسرت الأول

Christophe Thiers
Membra disiecta ptolemaica II

Christophe Thiers, Pierre Zignani
معبد بتاح بالكرنك – المعطيات الأولية عن الموقع
المحتويات

Michel Azim, Agnès Cabrol †, Aude Dobrakowski, Luc Gabolde
لغز تمثال لأبو الهول

Mansour Boraik
حفرات طريق أبو الهول – التقرير الثاني

Mansour Boraik
حمام روماني بمعابد الكرنك – تقرير مبدئي

Mansour Boraik, Salah el-Masekh, Anne-Marie Guimier-Sorbets, Bérangère Redon
الحُجَمَات البَطَلْمَيْة أمام معابد الكرنك – الاكتشافات الحديثة موسم (2009 – 2010)

Mansour Boraik, Mohamed Naguib
الأواني الفخارية من حفرات الحجَمَات البَطَلْمَيْة أمام معابد الكرنك

Peter Brand, Jean Revez, Janusz Karkowski, Emmanuel Laroze, Cédric Gobeil
مشروع صالة الأعمدة بالكرنك – تقرير عن موسم 2011 بجامعة مونتريال Quebec وجامعة Memphis

Jean-François Carlotti, Philippe Martinez
ملاحظات جديدة على المعارة والنقش بِصالة الأعمدة الكبرى بمعبد آمون رع بالكرنك

Silvana Cincotti
الحفائر داخل المتحف – المجموعة المصرية بتورين وجماعة ريفود rifaud
مجلة الكوناك
المركز المصري للدراسات لدراسة معايير الكوناك
القاهرة
2013