

# THE KARNAK HYPOSTYLE HALL PROJECT: (1992-2002)

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## 1. HISTORY AND PROGRAM OF THE KARNAK HYPOSTYLE HALL PROJECT

### 1.1 Introduction

Although the Great Hypostyle Hall in the Temple of Amen-Re at Karnak is well known to everyone who visits Luxor, it is still poorly documented.<sup>1</sup> Extensive general discussions in the earlier literature<sup>2</sup> remain, for all their virtues, incomplete, and the same can be said for a number of useful essays that have focused either on specific features within the Hall<sup>3</sup> or on broad questions of its decoration.<sup>4</sup> Indeed, the lack of basic documentation has been at the heart of more than a few controversies that only drive home how fragile our understanding of this building really is.<sup>5</sup>

### 1.2 Origins of the Hypostyle Hall Project

The first systematic attempt to record the Great Hypostyle Hall began during the late 1930s with Harold Hayden Nelson. As the founding Field Director of the Epigraphic Survey of the University of Chicago's Oriental Institute in Luxor ('Chicago House'), Nelson was acutely aware of the gap that still separates excavation from proper publication. Perhaps his most enduring contribution to the ongoing process of recording the monuments at Thebes is a system he developed to identify discrete scenes and elements of decoration, assigning them numbers so that they could be referred to easily.<sup>6</sup> In time, even though the Epigraphic Survey under Nelson was fully occupied with recording the mortuary temple of Ramesses III at Medinet Habu, the Great Hypostyle Hall at Karnak gnawed at Nelson's professional conscience to such an extent that he undertook to record it himself in his spare time. Drawings of most of the scenes on the interior walls were ready by the early 1950s, along with a manuscript (now lost) of translations – but the book was not accepted for publication at Chicago. Part of the problem, undoubtedly, was that Nelson had felt obliged to execute the drawings himself, in a manner vastly simpler and on a much smaller scale than the facsimile copies that were being produced by the Epigraphic Survey at the time.

<sup>1</sup> We extend our most cordial thanks to all members of the Supreme Council of Antiquities for granting us the privilege of working in Karnak Temple and for helping make our seasons between 1992 and 2002 in the Hypostyle Hall a success: particularly former and current Directors and Secretaries General of the SCA: Ibrahim Bakr, Abd el-Halim Nur el-Din, Aly Hassan, Gaballa A. Gaballa and the current Secretary General, Zahi Hawass. Thanks also go to the Directors General for Upper Egypt, Muttawe Balboush, Mohammed el-Saghir and all the other members of the SCA Permanent Committee; and Sabry Abd el-Aziz Khater. Thanks also go to the Co-Directors of the Centre Franco-Égyptien, Mohammed Nasr, Abd el-Hamid Marouf and Mahmoud Ahmed Bakhyt; and all our Inspectors at Karnak, including Badri Mohammed Abd el-Sattar, as well as to the other Karnak inspectors and members of the SCA staffs, for their friendly and effective cooperation with our mission.

<sup>2</sup> E.g., in Georges Legrain, *Les temples de Karnak* (Brussels, 1929), 159-259; Paul Barguet, *Le temple d'Amon-Rê à Karnak*, *RAPH* 21 (1962), 59-78.

<sup>3</sup> L.-A. Christophe, *Les divinités des colonnes de la grande salle hypostyle à Karnak*, *BiEtud* 21 (1955).

<sup>4</sup> K. C. Seele, *The Coregency of Ramses II with Sety I and the Date of the Great Hypostyle Hall at Karnak*, *SAOC* 19 (1940).

<sup>5</sup> E.g., W. J. Murnane, 'The Earlier Reign of Ramesses II and his Coregency with Sety I', *JNES* 34 (1975), 153-190; Murnane, 'The Earlier Reign of Ramesses II: Two Addenda', *GM* 19 (1976), 39-40; and cf. Peter J. Brand, *The Monuments of Seti I: Epigraphic, Historical and Art Historical Analysis*, *ProbiAg* 16 (2000).

<sup>6</sup> H. H. Nelson, *Key Plans showing the Locations of Theban Temple Decorations*, *OIP* 56 (1941).

The material thus remained unpublished when Nelson died in 1954,<sup>7</sup> and it continued to languish in the Research Archives of the Oriental Institute until William J. Murnane sought it out in the mid-1970s. By then, since it was clear that no scholarly organization would soon undertake to record the Great Hypostyle Hall properly, the case for issuing Nelson's drawings as a stopgap service to the profession seemed compelling. These, after being checked in the field for substantive accuracy, were finally issued at the beginning of the 1980s,<sup>8</sup> while further work was undertaken to complete the project he had begun. A proposal by Vincent Rondot to record the architraves was accepted,<sup>9</sup> and this writer began to document not only the 'stereotyped' decoration on the columns (i.e., everything but the scenes) but also the many blocks that had tumbled from the tops of the building's walls and were kept, in haphazard fashion, on the grounds of the Temple of Amen. By the mid-1980s, however, the press of other work,<sup>10</sup> followed by the transfer of Murnane's professional life from Egypt to the U.S.A., forced the project's suspension until 1990, when it was started afresh under the sponsorship of The University of Memphis, in cooperation with the Franco-Egyptian Center at Karnak. Since then the documentation of the Great Hypostyle Hall at Karnak has been proceeding as follows, with results to be published in the following tentative sequence:

Nelson's drawing of the reliefs on the inner walls of the Hall, already published, will be supplemented with a detailed commentary on the scenes themselves.<sup>11</sup> This discussion will cover the style(s) of carving, alterations, physical condition, traces of paint, and similar epigraphic commentary, along with translations of the texts and a provisional analysis of the decorative program of the Hall as seen on its standing walls.<sup>12</sup> Moreover, in order to illustrate stylistic and palaeographic details that cannot be seen from Nelson's drawings, this volume will be extensively illustrated with photographs drawn from the archives of the Chicago Epigraphic Survey and the Franco-Egyptian Center at Karnak.

### 1.3 Program of Epigraphic Work

The passages and doorways on the north,<sup>13</sup> south and west sides, and at the southeast corner of the Hall, since they are mostly excluded from earlier publications, are to have a volume of their own (A, C, E, F and H). Field work on these walls is essentially finished, and the drawings only await final inking before they will be ready for publication (see below 4.1).

The architraves undertaken during the early 1980s as a personal project by Rondot, formerly of the Franco-Egyptian Center, are now published.<sup>14</sup>

Murnane has recorded the 'stereotyped' inscriptions on the shafts of the columns and the original bases that survive (Figs 12 A-B and 65). Preparation of the manuscript, which will include a description of the color that remains on the columns, is in progress (see below 4.4).

<sup>7</sup> The writer (Murnane) is indebted to the late George R. Hughes, Charles Francis Nims and Ricardo A. Caminos, as well as to Edward F. Wente, for the reminiscences on which the preceding remarks are based.

<sup>8</sup> Nelson, *The Great Hypostyle Hall in the Temple of Amun at Karnak*, 1/1, *The Wall Reliefs*, edited by W. J. Murnane, OIP 106 (1981). Hereafter Nelson; *The Great Hypostyle Hall*, 1.1.

<sup>9</sup> Vincent Rondot, *La Grande Salle Hypostyle de Karnak: Les Architraves* (Paris, 1997).

<sup>10</sup> Cf. W. J. Murnane and C. C. Van Siclen III, *The Boundary Stelae of Akhenaten* (London, 1993).

<sup>11</sup> W. J. Murnane and P. J. Brand, *The Great Hypostyle Hall in the Temple of Amun at Karnak*, Vol. 1, Part 2, *The Wall Reliefs: Translations and Commentary*, forthcoming.

<sup>12</sup> For the latter see, for now, Ali El-Sharkawi, *Der Amun-Tempel von Karnak. Die Funktion der Großen Säulenhalle, erschlossen aus der Analyse der Dekoration ihrer Innenwände* (Berlin, 1997); and Hosam Refai, *Untersuchungen zum Bildprogramm der Säulenhalle in den thebanischen Tempeln des Neuen Reiches*, Ph. D. Dissertation, University of Helwan (Cairo, 1998). Thanks go to Cynthia Sheikholeslami for calling our attention to this last work.

<sup>13</sup> Here only the eastern thickness remains unpublished, for the inner doorjambs are included in Nelson's publication (n. 7 above) and the outer doorway is published by the Chicago Epigraphic Survey, *Reliefs and Inscriptions at Karnak IV, The Battle Reliefs of King Sety I at Karnak*, OIP 107 (1986).

<sup>14</sup> Rondot, *Les Architraves*.

The war scenes of Seti I on the north exterior wall have been recorded by the Chicago Epigraphic Survey (Fig. 6).<sup>15</sup> This expedition is currently engaged in recording the complementary war scenes of Ramesses II on the south outer wall (see below 4.2).

Blocks fallen from the tops of the standing walls of the Great Hypostyle Hall are stored throughout Amen's precinct at Karnak. Murnane made initial use of this material while working on the Chicago Epigraphic Survey's publication of Seti I's war reliefs and was able to reconstruct the overall outlines of the decoration on the missing upper reaches of the Hall's north outer wall. By the time he left Egypt in the mid-1980s, he had also noted the positions of over one hundred blocks from the Hall's interior. A number of these fragments have already been reassembled into a scene that must have stood originally in the fourth register of the west wall's southern wing (Fig. 2).<sup>16</sup> There is every reason to think, therefore, that similar results could be obtained with blocks from other, more seriously damaged walls of the building.<sup>17</sup> In recent years many of the fragments have been moved onto waterproof platforms as well, where they are safe from further deterioration that results from being in direct contact with the ground and its salt-inducing moisture (Fig. 3).<sup>18</sup> The Supreme Council of Antiquities and the Franco-Egyptian Center have recently agreed to clear the last important sector where blocks from the Hall are to be found, on the hill that lies east of the path which leads from the Hall's northern doorway to the Temple of Ptah.

The University of Memphis began working on these, as well as other fragments that lie around the site, in the spring of 2000 and 2002 (Fig. 4). The scenes that emerge from the joining of these fragments will be drawn and collated,<sup>19</sup> but the photographed assemblages of the blocks will also be integrated into photographic composites of the Hall's inner walls that the Franco-Egyptian Center is now preparing. This reintegration will serve as a guide to future restorers, when and if it is decided to put these reassembled scenes back onto the walls of the Great Hypostyle Hall (see below 2.7 and 4.3).

The scenes on the columns are still to be recorded in detail (including those that are now lying in fragments north of the Hall, two of which have been reconstituted, on paper, by Murnane). Most columns have only one scene, executed originally by Seti I (in the northern half) or Ramesses II (southern half), but columns adjoining the central aisle each have two such scenes. Ramesses IV later filled the empty spaces on all of the columns except those in the Hall's south-western quarter, generally adding two scenes per column.<sup>20</sup> Most of these 346 scenes survive (excepting those on the badly damaged columns at the southeast corner of the Hall's northern half), and although most of them are not executed on the large scale found on the colossal open-papyrus columns in the central aisle (Cols 1-12), the prospect of recording them all poses a daunting logistical challenge. Advances in computer-aided techniques for handling such images, along with financial issues, will have to be considered before a final decision is made on the manner in which the columns will be recorded (see below 4.4).

<sup>15</sup> Epigraphic Survey, *The Battle Reliefs of King Sety I*.

<sup>16</sup> This is because it was first carved in raised relief that was subsequently recarved as incised 'sunk' relief, a transformation that occurs only on the western half of the south wall (where this composition cannot fit) and on the northern two-thirds of the west wall's south wing (where there is ample room for it): see Murnane, 'Reconstructing Scenes from the Great Hypostyle Hall in the Temple of Amun at Karnak', in A. Niwinsky (ed.), *Essays in honour of Jadwiga Lipinska, Warsaw Egyptological Studies I* (Warsaw, 1997), 107-117.

<sup>17</sup> Nelson (*The Great Hypostyle Hall*, I.1, pls. 81-86) had already restored the top of the Hall's south interior wall from a number of such fragments, which are now stored on platforms at the southwest corner of the precinct of Amen, north of the Temple of Khonsu. Janusz Karkowski has also reconstructed the decorative scheme of scenes

on the now missing lintel over the north gateway from a handful of blocks.

<sup>18</sup> For which see C. Traunecker, 'Aperçu sur les dégradations des grès dans les temples de Karnak', *CahKarn* 5 (1970-72): 119-130; Traunecker, 'Observations faites au IXe pylône: dégradations internes et humidités', *CahKarn* 8 (1982-85), 355-367.

<sup>19</sup> The expedition uses a variation of the Chicago Epigraphic Survey's method of recording carved reliefs (see below 3.0). For the 'Chicago House Method', see L. Bell, B. Fishman and W. J. Murnane, 'The Epigraphic Survey (Chicago House)', *NARCE* 118 (1982), 3-23 and *NARCE* 119 (1982), 5-13. The Hypostyle Hall Project's methodology is discussed in detail below.

<sup>20</sup> See, in general, Christophe, *Divinités*, 2.

Finally, due to the rapid deterioration of some of the interior wall scenes – scattered throughout the building – a program of 'salvage epigraphy' was undertaken in 2001 to record those scenes in the most immediate jeopardy due to decay (Fig. 5). This represents only the first step in the process of eventually re-recording all of the interior wall scenes published by Nelson. Given the amount of unrecorded material in the Hall, this cannot be the first priority, except for the most endangered reliefs. Neither can the drawings of Nelson, however, stand as the definitive publication of the interior wall scenes, even when augmented by the forthcoming volume of translations and epigraphic commentary. For this reason, we have begun to redraw selected wall scenes that are in danger of immediate deterioration as part of our 'salvage epigraphy' program (see below 2.8-2.9.1).

The laborious program of recording described above will lead, undoubtedly, to an accumulation of valuable details on the history of the Great Hypostyle Hall. Ideally, however, and especially when enhanced by the addition of the fragments from the tops of the standing walls, it should also lead to a 'grammar' of decorative and religious themes inside the Hall. These findings might then be applied to other, more incomplete buildings of the New Kingdom. The system used in decorating the Great Hypostyle Hall may thus shed light on the mentality that underlies this and other great religious buildings that survive from ancient Egypt.

## 2. SUMMARY OF FIELD SEASONS BETWEEN 1992 AND 2002

What follows is a brief description of our fieldwork in the twelve years since the Karnak Great Hypostyle Hall Project of The University of Memphis began. We will confine ourselves here largely to a description of the field work and some of our preliminary findings. More detailed interpretations and epigraphic/historical findings are given in a later section of the present report.

### 2.1 1992 Field Season

The Hypostyle Hall Project's first two field seasons of May-June, 1992, were devoted to photography of reliefs to be recorded in facsimile during the coming year.<sup>21</sup> Reliefs in the eastern passageway through the Second Pylon<sup>22</sup> were photographed with the aid of a six story scaffolding generously lent to us by Chicago House (Fig. 1A).<sup>23</sup> Another early focus of our work was the battle reliefs of Ramesses II on the south exterior wall (Fig. 1B), and a handful of miscellaneous ritual tableaux from the north, south and south-east gateways (Fig. 1 E-F).<sup>24</sup> Edward Bleiberg also mapped the locations of previously identified fragments belonging to the Hall scattered in the block yard south of the temple proper.

### 2.2 1993 Field Season

Our third summer field season at Karnak lasted from May 16 until June 19, 1993. The project staff<sup>25</sup> worked on three distinct phases of the program:

(1) The photographer completed the recording of surfaces left undocumented at the end of the 1992 season --- i.e., reliefs on the southeast exterior corner of the Hall,<sup>26</sup> the exterior

<sup>21</sup> Team members for these years were William J. Murnane (field director); Edward L. Bleiberg, Lorelei H. Corcoran and Roberta Shaw (epigraphers); and Betty Leigh Hutcheson (photographer).

<sup>22</sup> PM II<sup>2</sup>, 42-43 (148) g-h.

<sup>23</sup> We would like to thank Peter F. Dorman, then Director of the Epigraphic Survey, for making the Chicago House scaffolding available to us during the 1990, 1992, 1993 and 1994 seasons.

<sup>24</sup> All of these were photographed by Betty Leigh Hutcheson under the supervision of Egyptologists William Murnane and Edward Bleiberg.

<sup>25</sup> This year's team consisted of Edward L. Bleiberg and Lorelei H. Corcoran (epigraphers), Betty Leigh Hutcheson (photographer) and William J. Murnane (field director).

<sup>26</sup> PM II<sup>2</sup>, 59 (175).

jamb and thickness of the south gateway,<sup>27</sup> and the thickness of the north doorway.<sup>28</sup> Additional photographs of scenes from the western passage into the Hall (at the east end of the Second Pylon) were also taken.

(2) Fourteen block fragments which can be joined to form substantial parts of scenes from inside the Hall and which had been identified by the field director in the early 1980s, were re-located and traced, and these tracings photographed. These were later reconstituted on paper, giving further impetus to the location and joining of additional fragments which continued during later seasons.<sup>29</sup>

(3) Fifteen photographic enlargements of scenes within the western passage of the Second Pylon at the entrance into the Hypostyle Hall were penciled in and given a preliminary collation (Fig. 7). Work on the remaining three scenes in the passage (bottom registers, both sides)<sup>30</sup> was deferred until the 1994 season, when drawings were made on new enlargements at a larger scale in order to do greater justice to the complex decoration found in these portions of the reliefs. Happily, enough had been done already to verify Murnane's initial hypothesis regarding these reliefs, which was that in their present form they are Ptolemaic re-editions of nearly identical scenes carved during the Nineteenth Dynasty. Not only did we find substantial traces of the earlier reliefs, which confirmed their basic similarity to the present Ptolemaic scenes, but a surprising amount of original Ramesside decoration was found to have been reworked, with varying degrees of thoroughness, or even incorporated in its original form, when these walls were recarved in the first part of the second century BC, more than a thousand years after they were first inscribed (Fig. 8).

Moreover, we were also able to confirm that the sunk relief cartouches of Ramesses II, for all their 'Ptolemaic' appearance, were indeed based on that king's original usurpation of the raised relief cartouches of one of his immediate predecessors in these scenes (Fig. 9). Even when the signs in these cartouches had been retouched by the Ptolemies' sculptors--- so that their paleography was in line with contemporary taste--- evidence of Ramesses II's original carving still survived in many places. Even better, distinct traces remained of the original raised relief hieroglyphs which Ramesses II had shaved down when he usurped these cartouches --- and these belong, not to his father, Seti I (as scholars had long assumed)<sup>31</sup> but to Ramesses I, his grandfather (Fig. 10).<sup>32</sup> The implications of this data for the building history of the Great Hypostyle Hall at Karnak would be further explored during subsequent seasons and are discussed below.

### 2.3 1994 Field Season

The Karnak Hypostyle Hall Project worked at Karnak from late May until the end of June, 1994.<sup>33</sup> Initial tracings of the remaining reliefs in the Second Pylon passageway were completed and first collation of drawings made in the previous season was continued. Elsewhere in the Hypostyle Hall, initial drawings were also made of selected reliefs from the north gateway<sup>34</sup> and the thickness of the south-east gateway (Fig. 11).<sup>35</sup> The narrow confines of the south-east passage made accurate photography impossible, and so direct one-to-one scale tracings on clear plastic were made instead. These tracings were later

<sup>27</sup> PM II<sup>2</sup>, 49-50 (164), 57-58 (171-174).

<sup>28</sup> PM II<sup>2</sup>, 49 (162) c.

<sup>29</sup> Murnane in Niwinski (ed.), *Essays in honour of Prof. Dr. Jadwiga Lipinska*, 107-117.

<sup>30</sup> PM II<sup>2</sup>, 42-43 (148) g-h. These lowermost registers both have scenes of the sacred bark of Amen-Re in a shrine followed by a figure of the king entering the temple. They are found at Nelson, *Key Plans*, KB 9-10 and 18-19.

<sup>31</sup> Seele, *Coregency*, 50-53; Murnane, *JNES* 34 (1975), 153-190

<sup>32</sup> Murnane, 'Egyptian Monuments and Historical Memory', *KMT* (1994), 15-24; Murnane, 'Ramesses I and the Building of the Great Hypostyle Hall at Karnak Revisited', *VarAeg* 9 (1995), 63-68.

<sup>33</sup> Our staff included William Murnane, Roberta Shaw and graduate students Peter Brand and Jennifer Palmer.

<sup>34</sup> PM II<sup>2</sup>, 49 (162) b-c.

<sup>35</sup> PM II<sup>2</sup>, 50 (165) b-c.

photographed and the photos used to make collation blueprints. At the same time, William Murnane's ongoing examination and recording of the stereotyped decoration on the columns inside the Hall and the search for 'new' fragments from its upper registers in the block yards around Karnak continued apace. Of particular significance was his effort to disentangle the three versions of the cartouches of Ramesses IV/VI on the bases of the twelve great columns of the central nave, and some of the best preserved examples were traced on plastic sheets (Fig. 12). The curved surfaces of the column drums, which also narrow slightly at a curve at their bases, made our normal method of drawings based on photographs impossible.

#### 2.4 1995 Field Season

1995 was the Hypostyle Hall Project's first long season, extending from late January through early May.<sup>36</sup>

During the 1995 season, the second major phase of the project was begun when initial drawings of the battle reliefs of Ramesses II on the south exterior wall of the Hypostyle Hall were traced on photographic enlargements (Fig. 13).<sup>37</sup> These included the ritual scenes on the exterior jambs and outer thicknesses of the south portal.<sup>38</sup> The process of first collation of the Second Pylon reliefs was now largely completed--- save only for final 'spot checks' in the 1997 and 1999 seasons--- along with drawings from the north and south-east gateways. Murnane had earlier identified a ritual scene of Ramesses II from loose blocks lying in the south block yard at Karnak. The original provenance of this tableau, which depicts Ramesses in the presence of Horus, Seth and two goddesses, was determined to have been the top of the southern half of the west wall adjoining a huge scene of Ramesses II. Drawings of the individual blocks were now fully collated and a drawing of the reconstructed scene was made on paper from these corrections.<sup>39</sup>

In 1995, William Murnane made some final refinements in his record of the stereotyped decoration of the columns, which he had begun in the 1970s and had augmented during practically every season of the Hypostyle Hall Project since 1992. The work in 1995 concentrated on completing the record of reworked cartouches at the bottoms of the columns, which occurs on three-quarters of the columns inside the Hall, where Ramesses IV had added a cartouche frieze on the 'leaves' carved around the bases. In many cases these names were altered, in the first place by Ramesses IV himself (who modified the spelling to make the divine figures larger) and later by Ramesses VI, who usurped them. The manner in which these alterations were done was checked this season in greater detail than before and copious notes taken, so that this data could be included in the final publication of the column decoration.

#### 2.5 1997 Field Season

Our 1997 field season, which lasted from mid-May through late June, was devoted exclusively to collation work.<sup>40</sup> Final checks of corrected drawings of the Second Pylon and south-east passageway reliefs were completed, as well as a number of discrepancies

<sup>36</sup> The staff this season consisted of William J. Murnane, University of Memphis (field director) and Lorelei Corcoran, University of Memphis (Egyptologist-epigrapher); Peter Brand (egyptologist-epigrapher-artist); and Jennifer Palmer (egyptologist-epigrapher).

<sup>37</sup> PM II<sup>2</sup>, 57-58 (171-173).

<sup>38</sup> PM II<sup>2</sup>, 49-50 (164) c. e-g.

<sup>39</sup> The preliminary drawing is given in Murnane in Niwinski (ed.), *Essays in honour of Prof. Dr. Jadwiga Lipinska*, 109, (fig. 1).

<sup>40</sup> The 1997 team was our largest to date, consisting of 8 members: William J. Murnane, University of Memphis (field director) and Lorelei Corcoran, University of Memphis (egyptologist-epigrapher); Peter Brand, (egyptologist-epigrapher-artist), a doctoral candidate at the University of Toronto; and three Egyptology students from The University of Memphis, Renata Czerkawski, Kara Sullivan, and Pamela Wilson.

and uncertainties which arose as the original drawings were corrected against the collation sheets and photographs of the reliefs in question that had been made between field seasons in 1994-1996 by the artist and reviewed by the Project Director. Such minor conflicts and questions, are inevitable despite the best efforts of the epigraphers in the field, justifying the epigrapher's adage that 'many sets of hands and eyes checking many times ensures the most accurate and objective facsimile of reliefs humanly possible'.

Initial collation of scenes on the exterior and thicknesses of the south gateway also commenced in 1997. Although the decorative scheme of the portal is seemingly banal, consisting wholly of 'generic' offering scenes and bandeaux texts, it did present us with a number of epigraphic challenges and even a few historical findings (Fig. 1 H). Much of the relief is in poor condition, like the rest of the south wall, having suffered considerable wind erosion and exfoliation of the surface (Figs 14-15). In addition, the faces and most of the limbs of the king and gods on the upper register and lintel of the south gate were hacked out by vandals in the Middle Ages. Sadly, almost all of the faces of the gods on the middle register of the jambs of the south gate is missing along with several patch stones on which they were inscribed. Remaining traces, e.g., the chin of a goddess on the east jamb, indicate that this register was not defaced. Superstitious defacement of reliefs is quite common at Karnak, and we had already encountered it in the eastern passageway of the Second Pylon where we found that it was often possible to recover substantial traces of the profile and other details of hacked out heads. Exfoliation of the already hacked surfaces made this task all the more difficult on the south gate, however, and as a result we were generally only able to recover partial outlines.

An unexpected result of our collation of the south gateway was the discovery that reliefs on the middle register of the jambs and door reveals were originally inscribed for Seti I, although the rest were carved for Ramesses II (Fig. 16). The south gate had first been inscribed in raised relief in the name of Ramesses II, who later converted this decoration to sunk relief as he did with other raised relief in the southern part of the Hypostyle Hall.<sup>41</sup> Apparently he made a small *homage* to his deceased father by having a fraction of the gateway reliefs carved in Seti's name, but his filial piety extended through his conversion of the raised relief to sunk. Later in his reign, however, he replaced these sunk relief cartouches of Seti I with his own. The same phenomenon has long been known from two reliefs on the bottom jambs of the *interior* face of this same gateway, where Seti I appears not as the officiant, however, but as a deified king and secondary recipient of his son's offerings to Amen-Re.<sup>42</sup> A closer parallel to the 'new' reliefs on the middle register of the exterior of the south gate is found in similar scenes on the jambs of the west gate of the Hypostyle Hall, where the four registers alternate the cartouches of Seti I and Ramesses I throughout the eight scenes (Fig. 17).<sup>43</sup>

## 2.6 1999 Field Season

In the spring of 1995 the expedition made preliminary copies of Ramesses II's battle scenes on the south exterior wall, including the southern doorway of the Great Hypostyle Hall.<sup>44</sup> The doorway scenes were collated during a short field season in 1997, but it was only during the May-June 1999 field season<sup>45</sup> that some of the war scenes themselves

<sup>41</sup> For discussions of this, see Seele, *Coregency*, 90-99; Murnane, *JNES* 34 (1975), 179.

<sup>42</sup> Nelson, *The great Hypostyle Hall*, I.1, pls 57 and 61.

<sup>43</sup> See Murnane, *VarAeg* 9 (1995), 63-68. The scenes on the west gateway that named Ramesses I are found in Nelson, *The great Hypostyle Hall*, I.1, pls 1, 3, 131 and 133.

<sup>44</sup> PM II<sup>2</sup>, 49-50 (164) c, e-g and 57-58 (171)-(174). The scenes on the inside of the doorway and its eastern thickness are published in Nelson, *Key Plans*, pls 54-61, 87.

<sup>45</sup> The expedition staff this season consisted of William Murnane of the University of Memphis (project director) and Peter Brand of the University of Toronto (Senior Epigrapher and Artist).

were given their first collation; the focus of our work was on the scenes that lie east of the doorway, which had been documented in hand copies but never in line drawings.<sup>46</sup> After a two year absence, this season brought home to us more than ever before the alarmingly rapid rate of decay that is overtaking the monuments. Even high up on the walls, we found yellow stains left by dissolved sandstone which had cascaded down the side of the south exterior wall with rainwater during a violent thunderstorm. The amount of precipitation in Upper Egypt has increased dramatically in the past decade with disastrous consequences for the standing monuments.

As our collation of the battle scenes on the east side of the south gateway continued, we found additional traces of the Battle of Kadesh palimpsest which had been overlooked by earlier scholars (Figs 18-19). These were often so faint that they were only detectible under the closest scrutiny at the wall. The erosions and exfoliation of the surfaces, coupled with the tendency of the ancient sculptors to rely on plaster to smooth poorly dressed stone, made our work all the more difficult. Large areas of intermittent 'quarry hacking' and voids left by missing patching blocks also robbed us of much of the decorative scheme.

## 2.7 2000 Field Season

The Institute of Egyptian Art and Archaeology at the University of Memphis worked at Karnak from the middle of January until mid-May in 2000. Once again, this project was authorized by Egypt's Supreme Council of Antiquities and functioned with the cooperation of the Centre Franco-Egyptien pour l'Etude des Temples de Karnak.<sup>47</sup> Since it had an unusually long working season in 2000, the project was able to focus on a number of different areas.

### 2.7.1 Epigraphy (1): Reliefs of Ramesses II and Others on the Outer Walls

The project began its work by recording the three surviving registers of scenes, never before copied in their entirety, on the eastern face at the southeast corner of the Hall.<sup>48</sup> This decoration, it must be admitted, consists for the most part of utterly stereotyped offering scenes (Fig. 1 H). True, these do continue, to some extent, the martial themes that prevail around the corner: in counterpoint with the long scene devoted to the presentation of prisoners to the Theban Triad located above the 'Battle of Kadesh' Poem on the south wall,<sup>49</sup> we find – in the middle register of the east face – Ramesses II presenting captives and spoil to Amen, Mut and Khonsu (Fig. 20). Above and below, however, are the most conventional of offering scenes – but while those at the top of the wall are both incomplete and rather crudely carved, the scene in the lowest register, adjoining the doorway, has an unexpected interest. To begin with, it does not belong to Ramesses II at all, but dates to the reign of his remote descendant, Ramesses IX (Fig. 64).<sup>50</sup> The scene was thus a 'filler', almost certainly carved at the same time that Ramesses IX built and decorated the adjacent gate at the north end of the court.<sup>51</sup> That this space had been left unfilled by the great Ramesses II is not without interest – for a similar 'blank' was also left on the cross-wall that extends from the south wall of the

<sup>46</sup> These scenes were not included with the other scenes from the south exterior wall drawn by W. Wreszinski, *Atlas zur altägyptischen Kulturgeschichte* II, (Leipzig, 1923-28). The texts were recorded by G. A. Gaballa, 'Minor War Scenes of Ramesses II at Karnak', *JEA* 55 (1969), 82-88.

<sup>47</sup> Apart from William Murnane (as field director) the expedition staff this season consisted of Peter Brand and Janusz Karkowski (Egyptologists), Richard Jaeschke (conservator), Jane Hill and

Tammy Hillburn (Egyptological assistants).

<sup>48</sup> PM II<sup>2</sup>, 59 (175).

<sup>49</sup> PM II<sup>2</sup>, 58 (174) I.2, II.2.

<sup>50</sup> PM II<sup>2</sup>, 59 (175) III. This scene is misidentified as 'Ramesses II receiving *menat* (?) from Amen'. This should be corrected to 'Ramesses IX receiving life from Amen'.

<sup>51</sup> Amin A. M. A. Amer, *The Gateway of Ramesses IX in the Temple of Amun at Karnak* (Warminster, 1999).

Great Hypostyle Hall,<sup>52</sup> when Ramesses II erased his original wall reliefs for the battle of Kadesh, leaving only the bandeau text at the top of the wall (see below 4.2).

After finishing their work at the outer southeast corner of the Hall, the epigraphers turned their attention to the war scenes of Ramesses II on the outer southern wall, west of the cross-wall that constitutes the west side of the transverse axis at Karnak Temple (Figs 18-19, 21-24).<sup>53</sup> These scenes, covering three registers at either side of the central doorway, are more completely preserved than Seti I's battle reliefs on the northern outer wall;<sup>54</sup> missing are only the bulk of the small offering scenes that occupied the upper register, along with all of the other material (bandeaux, torus moldings and cornices) at the very top of the wall. Otherwise, though, Seti's war monuments offer a poor analogy to this one. For one thing, the three registers on the west side are much longer than those on the east, which are cut off by the southern cross-wall; Seti's reliefs, by contrast, occupy the full length of the northern wall on both sides of the central doorway. Moreover, while each register of Seti I's war monument is devoted to a separate campaign, the arrangement of Ramesses II's battle scenes is more cryptic.<sup>55</sup> To begin with, none of them is dated, and each register lacks the regularity that is observed in Seti's sequences (in which the battles are invariably followed by the triumphal return to Egypt and presentation of the spoils at Karnak). In Ramesses' monument, by contrast, such an arrangement occurs in only one register; and while it might arguably appear under an abbreviated form in another, as well as in the three abbreviated eastern registers, it is entirely absent in the upper register on the western side.<sup>56</sup> Most scenes show the king attacking one or more fortresses, either on foot or in his chariot – but, owing to the irregular arrangement, Ramesses II's scenes cannot be arranged as surely as can those of his father. Eventually, it may be possible to identify the locale of each battle by means of the names inscribed on the individual forts; but this will not be possible until all of these texts receive their final collation, and can next be equated with toponyms from Syria-Palestine.

The expedition had begun collating its preliminary drawings of these scenes, made in 1995, during its short season in the spring of 1999, and it was hoped that the balance of this material could be checked during the spring of 2000. This expectation proved over-ambitious: only a fraction of the remaining scenes were finished during the 2000 season, leaving the rest for the 2002 and beyond. Moreover, since the fall of 1994, when a series of torrential storms and flash floods struck the Luxor area, the progression of damage to monumental reliefs in the Luxor area has accelerated at an alarming rate. By 1999, when first collation of the battle scenes on the south wall began, recent decay of lowermost portions of the important topographical lists was sadly apparent.<sup>57</sup> This damage continued to progress on the south exterior wall. The prime objective of the 2000 season was, therefore, to collate the most endangered reliefs on the south exterior wall. These were confined to the lowermost register. Our scaffolding, which usually rises to six stories, was dismantled and converted to three smaller two story scaffolds. These were spread out along the bottom of the south wall in order to collate all of the most endangered reliefs, which was accomplished by the beginning of April.

<sup>52</sup> PM II<sup>2</sup>, 132-133 (490-494).

<sup>53</sup> PM II<sup>2</sup>, 49-50 (164)c, e-g and 57-58 (171-174), excluding I.2 and II.2.

<sup>54</sup> Published by the Chicago Epigraphic Survey, *Reliefs and Inscriptions at Karnak IV, The Battle Reliefs of King Sety I at Karnak*, OIP 107 (1986).

<sup>55</sup> S. C. Heinz, *Die Feldzugsdarstellungen des Neuen Reiches: Eine Bildanalyse*, (Vienna, 2001), 44-47.

<sup>56</sup> See the handy diagram in fig. 8a of Gaballa, *Narrative in Egyptian Art* (Mainz, 1976).

<sup>57</sup> See Murnane, *KMT* 12, (2001): 59; Brand, *EgArch* 19 (2001), 11-13.

Although this 'salvage epigraphy' took us beyond the reliefs adjacent to the central doorway where traces of the erased Battle of Kadesh narrative are found, we were able at least to do some work on the palimpsest inscriptions we uncovered in 1995, as some of these are found on the lowermost register. Some of these palimpsests had already been noted, over ninety years ago, when it was first observed that the present battle scenes had been superimposed onto an erased version of the Battle of Kadesh.<sup>58</sup> While the pictorial elements of that original version are clearly visible (Figs 18-19, 21-22), the texts that went with them have previously received more cursory treatment: earlier copies, based as they were on photographs alone, had noted only the most deeply cut of the hieroglyphs,<sup>59</sup> and even in the late 1970s it could be asserted that the 'total length of these original lines is uncertain'.<sup>60</sup> Both the dimensions of this composition and its identity became clear, however, as soon as it was closely examined for the first time in 1995: it is the so-called 'Bulletin' of the Battle of Kadesh, and the six fragmentary columns extant come from the second half of the text (Fig. 23). Despite its deplorable condition, enough is preserved of this version to show that it is somewhat different from the copies found at other localities,<sup>61</sup> and it is already possible to fill some lacunae in passages left fragmentary in those copies. A fuller examination must wait until a later season – but even so, what has been noted to date is most promising, not only for an improved copy of the text itself, but in helping us toward a better understanding of how such 'rhetorical history' was composed and modified at the various locations where it was 'published' on temple walls.

### 2.7.2 Epigraphy (2): Fragments

In the mid-1980s, W. J. Murnane noted, among the stone fragments that lay scattered around the grounds of the temple of Amen, numerous blocks that seemed likely to have come from the Great Hypostyle Hall. In general, blocks in sunk relief had been deposited to the south of the main temple, while others in raised relief – clearly from the northern part of the building's interior (Figs. 3, 25-28) – had been stored to the north. H. H. Nelson had already reassembled a number of fragments and restored them to the upper register on the east side of the south wall, inside the Hall.<sup>62</sup> Out of the fragments Murnane found, another scene could be pieced together and even located, at the top of the south wing of the Hall's western interior wall.<sup>63</sup>

More serious work with these fragments had to wait, however, until the spring of 2000, when the Project was joined by Janusz Karkowski (Fig. 4). Conditions at Karnak, as well, were now more favorable for this sort of work, since most fragments had been moved onto waterproof brick platforms, and it was now easier to examine these blocks than before, when they were chaotically disposed about the grounds. A fresh survey of the 'block yards' around the temple of Amen turned up numerous new fragments – some of them identifiable as coming from specific localities inside the Hall. Some elements of the 'lost' walls (i.e. the lintel belonging to the inside of the doorway at the north end of the wall) are already coming together (Fig. 28). Most of the more obvious 'joins' have already been done, though, and it will take much more study of both the standing walls and the fragments before much further progress is made.

<sup>58</sup> J. H. Breasted, *The Battle of Kadesh* (Chicago, 1903).

<sup>59</sup> C. Kuentz, 'La Bataille de Qadech', *MIFAO* 55 (1928), pl. xxvi.

<sup>60</sup> K. A. Kitchen, *Ramesseid Inscriptions II* (Oxford, 1979), 158.

<sup>61</sup> A. J. Spalinger, 'Remarks on the Kadesh Inscriptions of

Ramesses II: the Bulletin', in Hans Goedicke (ed.), *Perspectives on the Battle of Kadesh* (Baltimore, 1985).

<sup>62</sup> Nelson, *The great Hypostyle Hall*, 1.1, pls. 81-86.

<sup>63</sup> Murnane in Niwinski (ed.), *Essays in honour of Jadwiga Lipinska*, 107-118.

Using a large format camera, Karkowski compiled a photographic dossier on all the loose blocks that could be photographed at or near a right angle. Many blocks lying on the hill to the northeast of the Hypostyle Hall itself lay very close together making photography impractical or impossible. Where possible, these were traced on clear plastic film. Still others will have to await consolidation and movement to waterproof platforms.

#### 2.7.4 Conservation of Loose Blocks and Block Fragments

While most of the stone fragments from the Hypostyle Hall have already been moved onto waterproof platforms, and are thus out of danger from further deterioration owing to the infiltration of moisture from the ground, one significant area remains untouched: this is what we have come to call 'Ptah Hill', the rise that lies northeast of the Hall and to the east of the path that leads from the main temple of Amen to the temple of Ptah. This ancient mound was a convenient dumping-ground for blocks that Georges Legrain dragged out of the Hall, after substantial portions of it collapsed in the 1890s. None of this material had been touched since his day (Figs. 29 and 31). The area remains covered by a confusing welter of architrave fragments, column drums, abaci and blocks from the walls of the Hall – many of these deteriorating, as they are split by the persistent action of the plant life around them (Fig. 30) or through contact with the moist ground.

Although the Supreme Council of Antiquities has designated the blocks on 'Ptah Hill' as urgent candidates for moving, logistical problems at Karnak prevented dozens of these blocks from being shifted. Thus it seemed advisable to bring out a conservator, in order to assess the condition of these blocks and perform such emergency conservation as seemed necessary before they can be moved to a safer and more permanent resting place. This was done in February-March, 2000, by Richard Jaeschke.

Conservation work began on the blocks belonging to the interior walls for the Hypostyle Hall in Karnak on Saturday, February 26, 2000, and concluded Sunday, March 26, 2000. The first operation was to identify the blocks concerned. These lay, mixed at random with other blocks from different architectural locations, on 'Ptah hill' between the Hypostyle Hall and the Ptah temple at the ancient mud brick boundary wall (Fig. 29). A few others were found to be on or near the *mastabas* just outside the Hypostyle Hall (Fig. 3).

When the blocks were first identified, a small area on each was coated with a viscous solution of Paraloid B72 acrylic resin (a copolymer of ethyl methacrylate and methyl acrylate) in acetone. As each block was individually identified, its number was marked on the acrylic resin patch using a permanent, lightfast, black marker pen and coated with a further layer of the acrylic resin. This resin protects the surface of the stone from being stained by the ink of the number and resists abrasion and other damage that could remove or obliterate the number. When the number needs to be removed in the future it can be cleaned off using swabs of acetone to dissolve the resin, without leaving any mark or stain on the stone.

Initially, 70 blocks were marked, then identified and a number assigned. Further blocks were discovered and identified later. Some blocks which had been given the initial resin patch were later found not to be relevant so a small 'X' was marked on the resin instead of a number, to show that the block had been examined and did not belong to the group being studied. Once each block had been numbered it was photographed (when possible) and recorded. A sketch map was produced showing the location of each numbered block. Each block was assessed and a priority assigned for its treatment according to its condition and

situation. Each block was photographed before and after treatment and records kept of its condition and treatment.

### 2.7.5 Clearing the blocks

The first process was clearing, starting from the north side of the block area, to remove debris from the bases of the blocks and to reveal them. Some blocks had been stacked on top of each other or had fallen against lower ones. All the blocks were inspected and those needing clearing to reveal the decorated surface (Figs 31 and 33) were dug out using a small trowel and hand tools, taking great care not to mark the surface of the stone. Grass was removed where it obscured the surface or was touching, growing next to or into the structure of the blocks (Fig. 32). Most decorated surfaces were given preliminary brushing with a soft brush to remove dirt and loose dust was blown off with a photographic puffer/blower tool. This revealed the surface for examination and photography by Dr. Karkowski.

Loose flakes which were found near a block or which became detached during the removal of soil and plants were lifted and left on top of the block to dry (Figs 31 and 33). The surface of any breaks was cleared and allowed to dry. Where possible, the break surfaces on fragments and on blocks were cleaned with an artist's soft brush and a puffer-blower. Many blocks were so deteriorated that even this delicate treatment would have caused further loss of the surface.

Priority was given to the decorated front surface of the blocks. Most of the blocks concerned were carved in the time of Seti I in raised relief and in many cases traces of the paint were also preserved (Fig. 27). The blocks that were lying with the decorated face upwards were less in need of immediate treatment, although many showed considerable structural splitting and often great displacement of large fragments (Fig. 34). The best remedy for this condition would have been to lift them from the irregular ground surface and place them on clean, firm *mastabas* where they could be realigned. It was not possible to achieve this during the spring 2000 season, but it is recommended that the blocks be relocated as soon as is feasible.

The blocks whose decorated surface was close to or actually under the ground required immediate treatment. The first concern was to clear away the dirt from around the decorated surface. While this was being carried out, it became clear that the grass and thorn bushes were contributing significantly to the immediate deterioration of the blocks. It remains a priority to remove these blocks from the salty, moist ground where the plants can grow around them. Although the halfa grass (*Desmostachya bipinnata*) and camel thorn (*Alhagi graecorum*)<sup>64</sup> had been killed with a herbicide some time previously, the dead plant stems that remained were still causing considerable problems for the blocks. In the morning, the presence of extra moisture in the air may have caused the stems to expand, acting as a wedge which displaced fragments. When detached and displaced fragments were removed, it was frequently found that the space between the fragment and the block was filled with a dense mass of plant material, which was often wet to the touch.

A phenomenon was noted which might be related to this. Several blocks were found to have a hard concentration of salts and dirt on the surface (Figs 35-36). When this was removed mechanically from the surface of block 175 a sample of the dry salt crust was kept in a small plastic bag which was sealed with a plastic zip-lock storage bag and left in the sun while work progressed. A few hours later it was noted that the salt had deliquesced in the heat, turning into a liquid. In the cool of the evening it had solidified into a crystalline

<sup>64</sup> L. Boulos and M. N. el-Hadidi, *The Weed Flora of Egypt* (Cairo, 1984), 86, 115.

substance. Further samples were kept and the phenomenon noted more carefully. On this occasion, the salt sample was sealed at 7.40 am. By 8.20 am. the sample had begun to soften and the inner surface of the bag was clouded with condensation. By 10.05 am. the contents were almost completely liquefied and remained so for the rest of the day.

### 2.7.6 Consolidating fragile stone

As each block was cleared, any loose fragments found in association with it were separated and removed for treatment. It was found that consolidation with a 5% solution (weight/volume) of Paraloid B72 in acetone would give almost immediate strength to the crumbling sandstone. The Paraloid solution was applied by allowing it to flow gently onto the surface from the nozzle of a polythene wash-bottle until the area was sufficiently saturated. This allowed a continuous stream of consolidant to diffuse into the fragile area. Both the detached fragment and the very fragile area on the main block from which the fragment came were consolidated this way. Great care was taken to make sure that the fragile areas were sufficiently supported during the consolidation, since they are at their most vulnerable while the consolidant is still in solution. Wherever possible, the consolidation was carried out during the cooler part of the day to slow down the rate of evaporation of the solvent. When treatment had to be carried out in hot conditions, especially where the surface was in direct sunlight, a sheet of Mylar foil coated plastic was laid over the block to keep the treated area as cool as possible. This significantly slowed the rate of evaporation of the solvent and increased the penetration and diffusion of the consolidant, even in the hottest part of the day. Fragile areas on blocks that were no longer buried but which displayed deterioration were treated in a similar manner with the Paraloid B72 solution being injected into the cracks and fissures in the crumbling strata.

It was found that the action of salt crystallization that weakens the stone particularly at or below the ground level was greatly enhanced by the growth of grass and other plants. These not only attract and hold moisture in the immediate area but also physically break up the stone. On many occasions it was found that a grass stem had grown into a small crack and had acted as a wedge to split the stone (Fig. 30). It was found in areas of severe salt disintegration of the sandstone that the grass had grown in the fragile stone as it would in a compact soil. Damage from the grass was found to be rapid and dramatic. If a previously consolidated area which was threatening to separate from the block detached within a day or so of application it was invariably found that there was significant grass intrusion directly behind the treated fragment.

In a few cases a salt and dirt crust was found over the surface of a block (Figs 35-36). This was removed using a combination of an aqueous cleaning solution and mechanical means. The solution consisted of a mixture of equal parts of clean tap water and acetone with 0.5% Synperonic (a non-ionic detergent) and a few crystals of sodium hexametaphosphate (a de-calcifying agent). The acetone was added to increase the rate of evaporation and so reduce the penetration of the water into the stone. Only a small amount of distilled water was available. The tap water was tested with a conductivity meter and was found to have the same or a slightly lower level of impurities as the distilled water so it was judged safe to use in this case. The mechanical removal of the salt and dirt crust was effected with a specially shaped round-bladed knife and a scalpel. The surface of the stone was then brushed with a soft brush to remove any remaining loose salt fragments and to prevent any semi-soluble salt crystallization forming on the surface as the stone dried (Figs 37-38).

### 2.7.7 Testing and use of Wacker Silane

Thirty liters of Wacker silicic acid ester (hydrophobic form, used without catalyst) were available on site. Tests were made to compare the effect of this compound with the acrylic resin consolidant. The solution was applied in the same manner as the Paraloid B72 solution, using a wash bottle to gently pipette the solution onto the surface. On a block 30cm x 20cm x 20cm 450-500 ml of Wacker silane was applied. The treated area was covered with Mylar reflective film for 2.5 hours during the hotter part of the day, but the area was still very fragile after treatment.

The effects were less dramatic than those obtained using Paraloid B72. The Wacker silane did not provide significant cohesive effect after the first application had hardened. A reasonable amount of structural strength was attained in a fragment 3 or 4 days after one application. This might be satisfactory for consolidation of some fragile sandstone, but in this case the condition of the blocks and the need for an almost immediate improvement in strength, adhesive and cohesive effects meant that the effect of the Paraloid was preferred. This was particularly important on the break surfaces of the main blocks near the ground, which were often in vertical or overhanging areas. The extreme fragility and imminent threat of collapse of the stone material required the use of a consolidant with very rapid bond strength. The Paraloid B72 resin exhibited tackiness and a cohesive effect, binding the deteriorated stone, within seconds of application. As the consolidant hardened subsequently it also demonstrated greater strength than the Wacker silane.

### 2.7.8 Safety Issues

Care was taken with regard to three main hazards:

- 1) Physical damage to the blocks and to the conservator through lifting and maneuvering of the heavy blocks, especially in awkward situations.
- 2) Dust from the blocks and the surrounding area. When cleaning the surface a particle filter mask was used.
- 3) Solvent from the consolidation treatment and the cleaning solution. When using solvents, an organic vapor mask was used.

### 2.7.9 Small Fragments

Small fragments which were in accessible areas and which formed a good join with the block were reattached using a viscous solution of Paraloid B48 acrylic resin (a copolymer of ethyl methacrylate and methyl acrylate) in acetone as adhesive. Due to the great displacement of many of the separated fragments and the disruption of many areas of the blocks it was not possible to re-attach all the fragments until the blocks can be moved to a better location. The remaining fragments were therefore retained separately, safely packed in clearly labeled cloth bags. The 50cm x 80cm bags locally produced to the conservator's specifications, of unbleached muslin with a simple drawstring closure of strong cord, probably polypropylene. The bags were identified by marking with permanent lightfast insoluble marker pen on the front. Each bag was labeled 'Karnak 2000' with the block number in a rectangle and the number of fragments placed in the bag. A record photo was taken of each group of fragments with their bag as a reference label before the pieces were bagged. The 20 carefully labeled bags were placed in a locked storage magazine near the Akhmenu Court in Karnak temple under the supervision of our assigned inspector from the SCA Two red quartzite statue fragments were also discovered and were put in a bag in the same store.

## 2.8 2001 Field Season

Tragically, the Karnak Hypostyle Hall Project's founding Director, William J. Murnane, died unexpectedly in November, 2000. As a result, Peter Brand took over his posts as director of the project and as a professor of Egyptology and Ancient History at The University of Memphis. Despite the loss of professor Murnane, our work at Karnak continues. The project worked at Karnak from mid-January through early April. The sole member of the expedition was Brand.

As a result of the shocking acceleration of the salt damage in the Hypostyle Hall, Professor Murnane had decided, shortly before his death, to launch an additional season of salvage epigraphy in early 2001 focusing on the most endangered reliefs on the lowermost register of reliefs inside the Hall (Figs 5 A-C and 39). This program of 'salvage epigraphy' had already begun during his last season in 2000, when we had specifically focused our collation efforts on the south exterior wall along the bottom register which was decaying more rapidly than any other part of that wall.<sup>65</sup> Inside the Hall, our prime concern was various ritual tableaux scattered along the bottom registers of the interior walls, especially the south half of the west wall (= the bottom of the east face of the Second Pylon's south tower).<sup>66</sup> Next in order of priority are badly salted reliefs of Seti I at the north-east corner (= against north-west end of the Third Pylon Facade), all being on the bottom register (Figs. 40-41).<sup>67</sup>

By the end of the 2000 season, preliminary drawings of the most endangered and unstable reliefs along the south half of the west wall had been completed for all but three of them (Figs 42-43). The work was also one of the first major tests of new modifications which we had recently made to our epigraphic methodology, building on the 'Chicago House method'.<sup>68</sup> We replaced our traditional 40.6 x 50.8 cm photographic enlargements with larger 61 x 51 cm ones. This allowed us to better capture the often intricate details of the fine relief carvings on the interior walls and to ensure better accuracy of the preliminary drawings, thereby making collation easier and faster. The larger scenes were also printed on two or more enlargements, with the especially wide barque procession scenes spread out over four or more photographic enlargements with some overlap. Rather than directly pencil the enlargements, we now made the initial drawings on semi-transparent Mylar plastic film (calque). Due to the ongoing damage that these reliefs have suffered in the several decades since they were first recorded by Nelson, we opted to use archival photographs graciously provided to us by 'Chicago House' which also gave us the use of its senior photographer, *gratis* in order to custom print these to our specifications.<sup>69</sup>

In some cases where the reliefs showed little or no decay since the 'Chicago House' photographs were taken in the 1930s, we used the same sized photographic enlargements made by the photographic department of the Franco-Egyptian Center at Karnak from a comprehensive photographic survey of the Hypostyle Hall undertaken by its chief photographer Antoine Chéné.<sup>70</sup>

<sup>65</sup> Murnane, 'A Forest of Columns: The Karnak Great Hypostyle Hall Project', *KMT* 12. 3 (2001), 50-59, Brand, 'Rescue Epigraphy in the Karnak Hypostyle Hall at Karnak', *EgArch* 19 (2001), 11-13.

<sup>66</sup> Nelson, *The great Hypostyle Hall*, I.1, pls 32-40.

<sup>67</sup> Nelson, *The great Hypostyle Hall*, 1, pl. 226.

<sup>68</sup> The new method was successfully used for the first time when we recorded scenes on the south-east corner of the Hall in 2000.

<sup>69</sup> Here we must again personally thank the current Director of the Epigraphic Survey, W. Raymond Johnson for his practical support and personal encouragement of our project and for the countless large and small services that both he and former Director Peter

Dorman have provided us, including use of their facilities and the loan of various pieces of equipment during every one of our seasons, including aluminum scaffolding, ladders, mirrors, storage magazines, photographic archives and services and the permission to hire some of their workmen during their 'summer vacation' in those seasons when we worked in May and June. To the whole staff of Chicago House, too, we extend a fond 'thank you' for their hospitality.

<sup>70</sup> Many thanks go to the Director and staff of the Franco-Egyptian Centre at Karnak, especially to Nicolas Grimal, François Larché, Luc Gabolde and Antoine Chéné for their collegial assistance and advice.

No major discoveries were made in recording these reliefs, as they had been carefully examined by various scholars investigating the chronology of the Karnak Hypostyle Hall and the hypothetical coregency of Seti I and Ramesses II.<sup>71</sup> Careful observation and recording of these reliefs anew, did turn up many fine technical details not captured in Nelson's drawings, such as the survival of plaster and traces of paint and recutting of relief.

## 2.9 2002 Field Season

The Karnak Hypostyle Hall Project of The University of Memphis worked at Karnak from May 26 to June 29, 2002.<sup>72</sup> The main objective of the season was to continue collation of war scenes of Ramesses II on the south exterior wall of the Hypostyle Hall in order to produce facsimile drawings of these reliefs. Initial drawings of these reliefs were first made in 1995.<sup>73</sup> We had begun collation of the drawings in 1999 under the project's late director, William J. Murnane. In 2000, we concentrated on the lowest register of the south wall because the scenes along the base of the wall, especially the historically important list of foreign place names, were rapidly decaying despite several conservation treatments of the reliefs in recent years aimed at preserving them.

By 2002, some of the name rings of the topographical lists from the great triumphal scenes flanking the south gateway had become illegible (Fig. 44). At the end of the 2002 season, we had completed collation of approximately 70% of the scenes on the south wall including the palimpsest of the Battle of Kadesh which was inscribed by Ramesses II on the south wall before he suppressed the Kadesh reliefs and replaced them with scenes of his other wars in Syria (Figs 6 and 19). The most interesting and difficult challenge has been to recover traces of the suppressed 'Bulletin' of the Battle of Kadesh narrative. This is inscribed in several columns of texts immediately to the west of the south gate of the Hypostyle Hall. This erased version of the 'Bulletin' is especially interesting since it includes the later portions of the text which are badly damaged in other known versions. Superimposed over the 'Bulletin' is a large triumphal scene of the king smiting foreign enemies in the presence of the god Amen-Re (Figs 18 and 21) and above this part of a war scene at the top of the wall and immediately adjacent to the south gate. More specifically, traces of the 'Bulletin' are found superimposed over part of a rhetorical speech of the god Amen, in several name rings from the topographical list (Fig. 23), and also over a representation of an enemy fortress in the battle scene above the triumph scene (Fig. 45). Most difficult to disentangle were the areas where columns of texts from the 'Bulletin' lay under the vertical columns of text from the triumphal scene and under the name of a fortress in the battle scene at the top of the wall. In these areas, the scale of the two sets of hieroglyphs makes it possible to separate the two sets of texts. Many of the hieroglyphs from the 'Bulletin' often retain traces of plaster used to suppress them (Fig. 45). Although only traces of the erased text survive, we have been able to recover some interesting information. The best preserved section comes from the end of the 'Bulletin'. It contains some variations from the other exemplars of this text. For example, in other versions, the king is compared to the god Atum, but in the Karnak text, the same passage compares him to Amen. It is hoped that closer examination of the traces of the palimpsest we recorded this season will allow us to make further restorations of the text of the 'Bulletin'.

<sup>71</sup> For the most recent discussion of the coregency, see Brand, *The Monuments of Seti I*, 312-332. The conclusions reached here strongly suggest that Ramesses II was only crown prince until Seti I died and that reliefs depicting him as king, even where Seti I's name and image are present, were made only after the elder king's death.

<sup>72</sup> The expedition staff for this season's work included four

epigraphists: Peter Brand (director) of The University of Memphis, Janusz Karkowski (senior epigrapher) of the Polish Institute, Suzanne Onstine (epigrapher) from the University of Arizona and Jean Revez (epigrapher) of the Université de Montreal. The staff artist was Lyla Pinch Brock.

<sup>73</sup> PM II<sup>2</sup>, 57-58 (171-173). See above 2.4.

To date, our collation of the palimpsest of the Battle of Kadesh reliefs and the 'Bulletin' has revealed many more traces than earlier investigators like Breasted, Kuentz and Kitchen had found.<sup>74</sup> The Kadesh reliefs were not completed before Ramesses II decided to replace them with other war scenes. To the west of the central gateway is part of the camp scene showing the pharaoh seated on his throne and hearing from his generals and ministers that the Hittites were nearby. Below this is the scene of the captured Hittite spies being beaten by Egyptian soldiers and a long row of Egyptian soldiers below. There is also an isolated scene of an Egyptian soldier cutting off the hand of a fallen Hittite soldier. Along the base of the entire wall is the river Orontes depicted as a horizontal band with a zig-zag pattern of water inside. Except for this river, all the other traces of the Kadesh palimpsest are close to the central doorway.

### 2.9.1 Salvage Epigraphy Inside the Hypostyle Hall

Since the 1999 season, the Hypostyle Hall Project has made a special effort to do 'salvage epigraphy' by recording reliefs and inscriptions that are most in danger from groundwater and salt damage. In 1999 and 2000, we focused on the battle scenes along the bottom of the south exterior wall which showed rapid deterioration from salt damage despite conservation treatments by the Centre Franco-Égyptien in 1998 and 1999. In 2001, our salvage epigraphy began to record damaged reliefs along the bottom of the west interior wall in the southern part of the Hypostyle Hall, which is the same as the east wall of the south tower of the Second Pylon.<sup>75</sup> These reliefs had begun to decay rapidly in the late 1990s and most of them were recorded in 2001.<sup>76</sup>

In the 2002 season, our artist, Lyla Pinch Brock, continued the process of recording these endangered scenes on the west wall and also others that were beginning to decay on the south wall and another scene near the north-east gateway of the Hypostyle Hall. These drawings were made by tracing with pencil on Mylar on top of archival photographs made by Chicago House in the 1930s from the north-east gateway and the west wall, and some others made by Antoine Chéné in 2000 from the south gateway. The Chicago House photographs were used where there is more damage to the reliefs today than when the photos were originally made. The photographs of Chéné were used when there was no significant decay to the reliefs. The reliefs on the south gateway are still in very good condition, but there is evidence that they are beginning to decay. The reliefs on the west wall have been treated repeatedly in the past four years by conservators from the Centre Franco-Égyptien. The damage to these reliefs has been slowed down but is still progressing. Several scenes on the west, south and east walls were recorded in this manner,<sup>77</sup> along with a scene on the small throne shrine of Ramesses II attached to the Second Pylon at the entrance of the Hypostyle Hall.<sup>78</sup>

### 2.9.2 Identification, Measurement and Recording of Blocks (Janusz Karkowski)

This part of the Great Hypostyle project was started in 2000 when 202 decorated blocks were documented. The departure point for this work was an inventory prepared by William Murnane consisting of sketchy hand drawings and few additional remarks concerning the kind of relief, and their place in the storage area. Whenever possible

<sup>74</sup> Breasted, *The Battle of Kadesh, A Study in the Earliest known Military Strategy*, (Chicago, 1933); J. H. Breasted, *Ancient Records of Egypt*, III, (Chicago, 1906), 129-157; C. Kuentz, *La Bataille de Qadech* (Cairo, 1928-34); *KRI* II, 158.  
<sup>75</sup> Murnane, *KMT* 12 (2001), 59; Brand, *EgArch* 19 (Autumn, 2001),

11-13.

<sup>76</sup> These consist of the scenes published in Nelson, *The great Hypostyle Hall*, I.1, pls 32-37 and 40.

<sup>77</sup> Nelson, *The great Hypostyle Hall*, I.1, pls 38-39, 57, 61 and 226.

<sup>78</sup> *PM* II<sup>2</sup>, 43 (149).

the blocks were photographed, but 75 blocks and fragments had to be traced using plastic film.

Before the 2002 season the photographs were scanned and enhanced using Adobe Photoshop 5.5. They were reduced to a scale of 1:5 and angular distortions corrected. The tracings were photographically reduced to 1:5 scale. On the basis of this scaled documentation the preliminary classification was made:

- 1) Blocks with the original sunken relief in small scale from the topmost register of the eastern wing of the north wall.
- 2) Blocks with the original sunk-relief scenes in larger scale from the third register of the northern wall.
- 3) Blocks with the original low relief reworked into the sunken relief.
- 4) Remaining blocks decorated in sunken relief.
- 5) Blocks with the original low-relief scenes in small scale from the topmost register of the north wall.
- 6) Blocks with the original low relief scenes in larger scale from the third register of the north wall.
- 7) Blocks with the modified low relief scenes in larger scale from the third register of the north wall.
- 8) Blocks decorated in the original low relief with king facing left from the south wall of the east antechamber
- 9) Blocks from the lintel of the northern gate.
- 10) Blocks that may come from two additional windows in the east wall.
- 11) Fragments of pillars of the clerestory windows.

During the 2002 season, the scaling of the photographs of the blocks recorded in 2000 was rechecked. This resulted in some corrections and permitted a more detailed classification of blocks. In addition, all the remaining 73 blocks from the inventory were documented either photographically or by tracing. At the same time, ten more fragments were identified and recorded in the open storage areas at Karnak; these might come from the walls of the Great Hypostyle Hall.

The preliminary results of the research into the blocks has resulted in the discovery of the exact location of a growing number of blocks in particular walls and other architectural elements of the Hypostyle Hall. At the moment, the additional measurements and the analysis of the decoration permit us to restore the sequence of all the scenes in the topmost register of the south wall eastwards from the central doorway, and ascribe to it 25 blocks. The corresponding western wing of the same wall is not in as good a state of preservation, but three blocks could be ascribed to it this season. The identified fragments of the lintel of the doorway in the north wall permit the restoration of its size and of the composition of its decoration. Newly identified fragments and the more accurate measurements of the previously documented blocks from the pillars between the clerestory windows permit the distribution of the blocks to the south or north of the Hall's central axis. There is a chance that they may be ascribed to four specific missing pillars after the documentation is processed and analyzed.

The blocks stored on the hill north of the Hypostyle Hall were only partially analyzed. This is due to their inaccessibility, making the recording and measurements extremely difficult and time consuming. The abundant thorny plants that screen the decorated surfaces worsen the situation. Their examination will be much easier when the blocks are

transferred to the new *mastabas* in the northeast corner of the Great Enclosure, scheduled for completion in the summer or fall of 2002.

The epigraphic corrections of the decoration of the blocks have begun. This is a necessary stage preceding the final drawings to detect all the important details that may not be clear on the photographs or were overlooked during tracings. Full collation of drawings of the blocks by a team of epigraphers is planned for future seasons.

### 3. EPIGRAPHIC METHODOLOGY

As a former member of Chicago House, William Murnane endeavored to produce a record of the Hypostyle Hall reliefs approaching the highest standards of the Epigraphic Survey. With resources much smaller than those of Chicago House, it was obvious that a somewhat scaled down process would be necessary. Initially, the project used a slightly modified version of the 'Chicago House' method. Scenes were traced in pencil on 40.6 x 50.8 cm photographic enlargements by epigraphers. Next the photographic emulsion was chemically bleached out leaving only the pencil drawings. From blue prints of these drawings, collation sheets were made on 21.4 x 43.5 cm sheets of paper to which was affixed a small portion of a blue print copy of the drawing. From these collation sheets teams of epigraphers carefully checked the drawings against the wall, making adjustments to the drawings, detailed notations of the necessary changes, and often sketches of individual hieroglyphs and other detailed elements of the reliefs. The objective was not merely to record the full epigraphic and iconographic details of the reliefs, but also to reproduce faithfully their paleography and artistic style.

From these collation sheets, the original drawings were next fully corrected in pencil by the staff artist and the adjusted drawings were checked against the collation sheets by the project director. The director produced a list of any discrepancies he found to be further corrected by the artist. This back and forth process of consultation was repeated until all questions and/or discrepancies had been settled, and in some more difficult cases, the collation sheets and completed drawings were re-examined at the wall during later seasons. In the last stage of this process, the final edition of the drawings were inked by tracing them on sheets of Mylar, thus preserving the original penciled enlargements.

After the 1997 season, we developed a further modification of our working method. The need to conserve precious field time and financial resources, in particular, inspired a new approach. The size of the photographic enlargements on which the drawings were based was increased to 51 x 61 cm. Now, instead of tracing directly on the enlargements in the field, the initial drawings were produced by an artist in North America by tracing the drawings in pencil on Mylar laid over the photographic enlargement. This new method was advantageous for a number of reasons, cost and convenience included.

Following a successful trial of this process in 1999 on a scene from the north gate, the new method was used to great advantage in collating drawings of reliefs on the south-east corner of the Hypostyle Hall in 2000. The result was a savings of months of field time and production of more accurate drawings. A further advantage of this process arose from the fact that the original photos were never bleached away. It was now possible to check the preliminary drawing on the Mylar (calque) by removing it from the photo or by inserting a sheet of paper between them. This allowed the artist to more easily refine his work and to inspect the drawing for any stray elements which had accidentally been omitted. Such details

were easy to miss when drawings in pencil are made on a black and white photograph.<sup>79</sup> After first collation, the proportional accuracy of the artist's corrections to the drawings could be checked by overlaying the drawings on the photograph. This prevented many subtle inaccuracies from creeping in during the correction process. Finally, during the inking process, overlaying the drawing on the enlargement makes it easier for the artist to render various types of damage — hacking, erosion and incidental damage — more accurately and distinctly, rather than drawing them freehand.

## 4. PRELIMINARY EPIGRAPHIC AND HISTORICAL FINDINGS

### 4.1 Eastern Passageway of the Second Pylon

When this project resumed its work at Karnak in 1991, the only substantial block of scenes on the walls which remained unrecorded within the interior of the Hall was the material inside the passage through the Second Pylon. This structure predates the Hall itself by as much as a quarter-century, for the Second Pylon itself was constructed by Horemheb<sup>80</sup>. The western half of the passage through pylon, including the mountings and 'shadow' recesses for the gigantic double doors of this gateway, was substantially rebuilt during the third century BC and does not concern us here. At the eastern end, however, both side walls<sup>81</sup> are covered with five registers of scenes, surmounted on either side by a frieze of royal cartouches flanked by serpents (Figs 7, 46-52). Making them a priority was not only a matter of tidiness (to bridge the gap between the material inside and outside the building) but of scientific concern, particularly with regard to our understanding the 'prehistory' of the Hall itself.

The king whose name was inscribed inside the cartouches in the friezes at the top of both walls is Ramesses II (Figs 46 and 48), who is also the celebrant in most of the scenes carved below: since such cartouche friezes generally define the identity of the ruler responsible for the structure in question,<sup>82</sup> it would seem that those who carved this passage in antiquity regarded it as Ramesses II's work.<sup>83</sup> In no fewer than three of the episodes below, however, the officiating king is Ptolemy VI (180-145 BC) (Fig. 49). Moreover, since the carving throughout this area exhibits numerous features compatible with the style used in Egyptian temples of the Hellenistic period, it stands to reason that these reliefs were actually executed long after the time of Ramesses II, during the second century BC.

Opinion had been divided as to whether these scenes were originally carved in the Ptolemaic era<sup>84</sup> or only restored at that time based on a Nineteenth Dynasty prototype.<sup>85</sup> In any case, the clash between the apparent date of these poorly documented carvings and their prevailing content (originating about 1100 years earlier) made them prime candidates for recording. Thus, when the expedition resumed its work at Karnak in 1991, we decided to begin by attempting to resolve this question.

Close examination of the reliefs revealed that they were indeed based on an earlier version, which must have been badly damaged when the roof of the passage collapsed in late antiquity.<sup>86</sup> The repairs in this section did not confine themselves, however, to

<sup>79</sup> Sometimes, even after first or second collation, details can be missed. In one case, an *ankh* was found to be missing its 'arms'. An extreme example was the X-shaped strap on the upper body of a figure of Amen-Kamutef which was missed in the original drawing and in subsequent collations and even corrections of the original drawings, only to be discovered later in a photograph and added.

<sup>80</sup> Seele, *Coregency*, 7.

<sup>81</sup> PM II<sup>2</sup>, 42-43 (148) g-h, with references.

<sup>82</sup> K. A. Kitchen, 'A Note on Bandeau Texts in New Kingdom Temples'

in F. Junge (ed.), *Studien zur Sprache und Religion Ägyptens*, I (Göttingen, 1984), 547-553.

<sup>83</sup> A Nineteenth Dynasty date for the carving of these scenes is, in fact, implied by Seele, *Coregency*, 50-52.

<sup>84</sup> Legrain, *Les Temples de Karnak*, 148.

<sup>85</sup> E.g., Bargout, *Karnak*, 58-59; Murnane, *Ancient Egyptian Coregencies*, 181-182.

<sup>86</sup> V. Rondot and J.-C. Golvin, 'Restaurations antiques à l'entrée de la salle hypostyle d'Amon-Rê à Karnak', *MDAIK* 45 (1989), 249-259.

substituting the names of contemporary Ptolemaic rulers in reliefs, as happened on the outer gateway and in the recesses for the door leaves of the Second Pylon.<sup>87</sup> Instead, the Hellenistic restorers made an effort to recreate most of the original scenes at the east end of the passage, diverging from this program only when they inserted Ptolemy VI, the sponsor of this repair, into the compositions. The result is an amalgam, reproducing something of these walls' early appearance (though, admittedly, in the style later current) while integrating into them not only elements of the original carving but also additions that were made at various periods. What these changes were will be clearer following a summary of the decoration of the passage as it currently exists.<sup>88</sup>

#### 4.1.1 North Wall

*Top:* Cartouches of Ramesses II, in raised relief that is manifestly Ptolemaic in style, protected by cobras. The king's praenomen is *Wsr-m3't-R'c stp.n.R'c* (as it is everywhere else on these walls); his nomen is *R'-ms.s mri-Imn*. NB: all elements in these scenes are in raised relief except for the cartouches and *serekhs* containing the names of Ramesses II in the lower registers of these walls. On both the north and south walls, the raised relief cartouches are found in the top friezes and the upper register of scenes.

#### Upper register

*(west)* [King] offers *nw*-jars to standing Amen-Re. The figures are carved in raised relief, as are all others on these walls. Traces of the earlier version are especially strong in this scene, demonstrating that the later Ptolemaic version is essentially a copy of the original design. *(east)* Ramesses II offers flowers to ithyphallic Amen-Re. His names, like the figures, are carved in raised relief, as is his nomen *R'-ms.sw mri-Imn*. This form of the nomen occurs in all the scenes on both walls, although the cartouches in the top friezes are all *R'-ms.s*.

#### Second register

*(west)* Ramesses II (names sunk) is led into the temple by Monthu and the goddess Tjenenet. *(east)* Ramesses II (names sunk) offers a libation to standing Amen-Re.

#### Third register

*(west)* Ramesses II (names sunk) offers flowers to ithyphallic Amen-Re. *(east)* Ramesses II (names sunk) kneels beside the *ished* tree in front of Atum enthroned, while Sefkhet-'abwy stands behind the king and writes on the tree's leaves.

#### Fourth register

*(west)* Ptolemy VI (names raised) is led into the temple by a hawk-headed Khonsu. *(east)* Ramesses II (names sunk), with Mut standing behind him, kneels before enthroned Amen-Re and receives jubilees from him. *(east end)* A solitary figure of Ramesses II (names raised) stands, with his arms hanging at his sides, facing into the Hall.

*Lowest register:*

*(west)* [King offers] to processional barks of the Theban Triad.

<sup>87</sup> PM II<sup>2</sup>, 41-42 (148) a-f, with references

<sup>88</sup> The following account of this section reflects the expedition's

collation of the scenes and supersedes the somewhat inaccurate description in PM II<sup>2</sup>, 42-43 (148) g-h.

(east) A solitary king (very eroded: see below 4.1.2 *lowest register*) stands, facing into the Hall.

#### 4.1.2 South Wall

*Top:* Cartouche frieze with names of Ramesses II, as on the north wall. The paleography is clearly Ptolemaic.

##### Upper register

(west) Ramesses II (names raised) offers *nw*-jars to standing Amen-Re.

(east) Ramesses II (names raised) offers flowers to ithyphallic Amen-Re (Fig. 50).

*Second register:*

(west) Ramesses II (names sunk), followed by a goddess (now lost), is led into the temple by Atum (Fig. 51).

(east) Ramesses II (names sunk) offers four ointment jars on a tray to standing Amen-Re. Many elements of the original carving have survived well enough to be recycled, with virtually no recutting, into the Ptolemaic edition of the scene – notably, almost an entire column of text, in which the signs *di.n.(i) n.k knt nb* are more lightly cut and palaeographically quite different from the Ptolemaic signs around them.

##### Third register

(west) Ptolemy VI (names raised) offers papyrus flowers to ithyphallic Amen-Re.

(east) Ramesses II (names sunk, all else raised), with 'the Lord of the Eight' (Thoth) behind him, kneels beside the *ished* tree before an enthroned Re-Horakhty.

##### Fourth register

(west) Ptolemy VI (names raised) is led into the temple by Khonsu.

(east) Ramesses II (names sunk), with lioness-headed Mut behind him, kneels before an enthroned Amen-Re.

(east end) Ramesses II (names sunk) offers a cup of incense as he faces into the Hall.

*Lowest register:*

(west) [King offers] flowers before the processional barks of the Theban Triad.

(east) Ramesses III (names raised, see below 4.1.3) stands with his left hand upraised, performing a *htp-di-nswt* offering as he faces into the Hall.

#### 4.1.3 Historical Significance of Reliefs from the Western Passage

To all appearances, then, the reliefs are the work of Ramesses II that was damaged and subsequently repaired by Ptolemy VI. Still, although numerous traces of the original version confirm the broad truth of this conclusion (Fig. 8), a few anomalies suggest that the whole truth may be more complicated. The cartouches, for example, are not consistent either in their content or their manner of execution (cf. Figs 9, 48, 52). Leaving aside the obvious insertions of Ptolemy VI's names and figure in three instances (Fig. 49), the remaining names (all belonging to Ramesses II) are carved in raised relief at the very top of the wall (the friezes and uppermost registers; Fig. 48) but in sunk relief below (Fig. 49). Moreover, the nomen in the frieze is the earlier form (*R<sup>c</sup>-ms.s*) used before the king's twenty-first regnal year, after which he wrote his name as *R<sup>c</sup>-ms.sw*,<sup>89</sup> the form used in all the scenes.

<sup>89</sup> K. A. Kitchen, 'Aspects of Ramesside Egypt', in Walter F. Reineke (ed.), *Acts. First International Congress of Egyptology*, Cairo, October 2-10, 1976, SGKAO 14 (Berlin, 1979), 383-389.

If this pattern reflects the original carving inside the passage, that would suggest that the decoration took place in at least two separate stages, which also raises questions about the originality of at least some of Ramesses II's work here. It is unlikely that these highly visible walls would have remained bare of all carving, except for the upper frieze, until after year 21. If they did not, it would be normal for the original names (carved, like all the other elements of these scenes, in raised relief) to be replaced by later ones, inscribed (to save time and effort) in sunk relief. This, after all, is precisely what happened inside the Great Hypostyle Hall itself, wherever Ramesses II usurped his father's cartouches or altered his own (Figs 17 and 61);<sup>90</sup> and it was the very normality of this pattern elsewhere that prompted the expedition to pay special attention to the anomaly of sunken royal names in the raised relief environment of the passage.

We have already noted that the Ptolemaic restorers tended to recycle patches of the original raised carving where it was preserved well enough for reuse (Fig. 8). Since most of the raised relief in this passage, in its present form, is the work of Ptolemy VI, this wholesale repair could plausibly include Ramesses II's raised relief cartouches at the tops of the walls (which would have suffered most severely from the falling masonry of the roof). They are, moreover, clearly executed with Ptolemaic paleography. It follows, then, that the sunken names below might be part of this original carving, since these incised hieroglyphs (being less exposed to damage from the debris that rained into the passage when the roof collapsed) would be among the likeliest elements to survive of the original text. This expectation proved to be well founded. While many of the sunken signs had been restored (and even given some of the characteristics of Ptolemaic relief)<sup>91</sup> they were fundamentally those with which Ramesses II had replaced the original raised relief names: so many traces of the suppressed names survive that it is beyond doubt that these cartouches belong substantially to the original surface of the relief.

The identity of these scenes' original owner, however, proved surprising. Seti I would have seemed to be the most logical candidate, given not only his initiative in building and decorating the Hall but also his son's efforts to appropriate from him all reliefs along the main axis of the Hall. Invariably, however, the original traces showed, not the names of Seti I, but those of his father, Ramesses I – *Mn-phty-R'* and *R'-ms.sw* (cf. Figs 9-10 and 52). Moreover, since Ramesses I left no original decoration on the walls inside the Hall itself,<sup>92</sup> his work in the passage probably relates to his embellishment of the Second Pylon, which Ramesses I partly usurped from Horemheb. Other work of his in the area is not hard to find: most notably, on a fragment of a large cartouche frieze from then upper reaches of the vestibule in front of the pylon, we see Ramesses II's praenomen carved over that of Ramesses I, who replaces Horemheb (Fig. 54);<sup>93</sup> and Ramesses I's names can also be detected (under Ramesses II's usurpations) on the vestibule's inner walls (Fig. 53).<sup>94</sup> The scenes at the east end of the passage are thus a logical extension of Ramesses I's apparent program of filling gaps his predecessor had left in the decor of the Second Pylon. It is clear that during or after Ramesses II's year 21, he usurped the entire main east-west axis of the western part of Karnak temple from the facade of the Second Pylon vestibule through the

<sup>90</sup> See Seele, *Coregency*, *passim*, for a broad survey of this phenomenon, which has been most recently discussed by Rondot, *Architraves*, 151-153.

<sup>91</sup> For example, seated divinities are given the rounded rumps that are typical for them in Ptolemaic times.

<sup>92</sup> As noted most recently in Murnane, *VarAeg* 9, 63-68, Seti I carved the scenes in which Ramesses I officiates on the north wing of the west wall; and he is also responsible for the eastern doorway of the passage (PM II<sup>2</sup>, 43 [148] i-j) which he 'shares' with his father,

as a memorial. Further evidence that the reliefs depicting Ramesses are posthumous is also found in Brand, *The Monuments of Seti I*, 206-208.

<sup>93</sup> References in PM II<sup>2</sup>, 41. For another instance, in a cartouche *in situ* on the facade of the south wing of the vestibule to the Second Pylon, see Seele, *Coregency*, 8 (fig. 2).

<sup>94</sup> See Seele, *Coregency*, 38-39, confirmed through personal observation by William Murnane and Peter Brand.

Hypostyle Hall to the facade of the Third Pylon vestibule.<sup>95</sup> Ramesses IV would later do much the same on many of the columns inside the Great Hypostyle Hall.

One further anomaly concerns not the 'prehistory' of the Great Hypostyle Hall, but the later phases of its use as a cult building. At the eastern end of the passage the batter of the pylon's east wall creates a slant in the profile of each of the passage's walls which becomes more pronounced as it nears the bottom. As a result, in the two lowest registers the triangular space at the east end that cannot be absorbed within the basically rectangular composition of the eastern scene, and so it was filled by the figure of a standing king. On both sides of the fourth register this king is Ramesses II – manifestly Ptolemaic in style but still consistent with the overall pattern of the decoration. Symmetry is broken, however, in the lowest register, where the kings bear no resemblance either to those above or to one another. On the south side, where the relief is at least tolerably well preserved, we see Ramesses III, wearing the Double Crown as he makes an offering gesture (Fig. 47).

The king on the north side survives less well (only the upper part of the figure remains, and the area where his cartouches would be is badly eroded) but he wears a closely-fitting skullcap with streamers issuing from the back and, on his brow, what turned out on close inspection to be a double uraeus – a costume typical for the Nubian pharaohs of the Twenty-fifth Dynasty (Fig. 55).<sup>96</sup> Fortunately, too, one of the cartouches above the king's head, though badly eroded, proved not to be past recovery and it was possible to read part of his name, '[Taha]rqa'. Still, even with the facts reasonably well established, how is one to explain this curiously asymmetrical arrangement? Since Ramesses II is clearly identified in these reliefs as chief of the Great Hypostyle Hall's builders, it is logical to show him officiating in his own building. What relevance do the two later kings have to this Hall, however, and how were they represented here (if at all) before the Ptolemaic recarving of the passage? At present, there is no clear answer to this last question. By comparing the wall surfaces where these figures are with adjoining areas that appear to be at (or close to) the original level of the relief, it can be established that some sort of figure stood in these spaces when the scenes were first laid out. Whether this was Ramesses I, Seti I (or anyone else) cannot be determined; and it is equally difficult to tell whether Ramesses III and Taharqa superimposed themselves on figures that were carved originally during the Nineteenth Dynasty, or whether bringing them together here was Ptolemy VI's inspiration. The question of relevance, though, is somewhat easier to resolve, at least in a speculative way. Ramesses III left a number of large-scale marginal inscriptions in the vicinity of the Great Hypostyle Hall i.e., on the facade of the Second Pylon and the south wall of this very passage,<sup>97</sup> as well as on the Hall's northern and southern gateways,<sup>98</sup> and the back of the Third Pylon.<sup>99</sup> Moreover, his mortuary temple was still standing (even if it was not being used in its original way) on the west bank.<sup>100</sup> Just as conspicuously, Taharqa built the colossal 'kiosk' through which visitors in late antiquity had to pass on their way into the Hall.<sup>101</sup> In the Ptolemaic restorers' eyes, then, both rulers might be regarded as noted builders in a continuum of kings that began with Ramesses 'the Great' – a name to conjure with in late antiquity<sup>102</sup> – and ended, for all practical purposes, with Ptolemy VI.

<sup>95</sup> Presumably he also usurped the now lost decoration in the passageway of the Third Pylon. He also expropriated the north-south axis of the Hall.

<sup>96</sup> E. R. Russmann, *The Representation of the King in the XXVth Dynasty*, *MRE* 3 (1974), 25-44 ('Costume').

<sup>97</sup> Neither one documented in *PM* II<sup>2</sup>.

<sup>98</sup> *PM* II<sup>2</sup>, 49 (162) c, III (north) = Chicago Epigraphic Survey, *Battle Reliefs of King Sety I*, pls. 19 right, 20 (marginal texts on doorway) and pl. 37 (cartouche frieze added at the base of a scene that was enclosed

within a kiosk during Ramesses III's reign). At the southern gateway, however, Ramesses III's additions are previously undocumented.

<sup>99</sup> *PM* II<sup>2</sup>, 60-61 (182-183).

<sup>100</sup> See U. Hölscher, *The Excavation of Medinet Habu V, Post-Ramesseid Remains* (Chicago, 1954).

<sup>101</sup> *PM* II<sup>2</sup>, 24-25 (14-24).

<sup>102</sup> See Kitchen, *Pharaoh Triumphant: The Life and Times of Ramesses II* (Warminster, 1982), 226-231.

## 4.2 War Scenes and other Reliefs of Ramesses II on the South Exterior Walls

These reliefs, carved on the Hypostyle Hall's south exterior wall, had never been copied before in their entirety. Walter Wreszinski photographed and made drawings of the battle scenes which lie west of the doorway,<sup>103</sup> but those on the east side were known only from hand-copies.<sup>104</sup> The doorway itself was entirely unpublished, while the greater part of the triumphal scenes which lie to either side were available only in nineteenth century copies.<sup>105</sup> These earlier copies were collated and integrated into hand-copy edition published by K. A. Kitchen,<sup>106</sup> which up to now has been the most authoritative source of knowledge on this material which we possess: indeed, it will remain of permanent value as a synopsis of previous editions, and for its treatment of those passages which were copied earlier but have since disappeared. Unfortunately, the methodology used for this edition (checking the old copies against photographs made in the field and making new copies in the same way) is insufficient to guarantee total accuracy: our preliminary collation of these copies revealed all too many defective or incomplete readings which we were subsequently able to improve on closer examination of the original. Any hand-copy edition must ignore, moreover, the pictorial element which is so important a key to understanding the records of the past. For all these reasons the facsimile copies undertaken by the expedition have proved worthwhile.

In addition to the substantial improvements to earlier copies which we obtained from our drawings and collations of these scenes, our results go beyond the accumulation of fresh detail (Figs 22-24). It has long been recognized that the present battle scenes are a palimpsest, carved over an erased version of the Battle of Kadesh. The outlines of one major section (under the western triumph scene) had been established,<sup>107</sup> but virtually nothing had been made of the numerous traces of text --- ultimately in seven columns --- which attracted our attention at the right side of this scene: while the existence of traces had been noted by Charles Kuentz, in his masterly edition of the Kadesh texts, his reliance on photographs instead of on-the-spot collation led, once again, not merely to an understatement of the evidence but to a fundamental misunderstanding of it; Kuentz had not been able to identify to which of the several Kadesh compositions this text belonged.<sup>108</sup> We can now say with certainty that it is a copy of the 'Bulletin'<sup>109</sup> --- one which, compared with earlier known versions, clarifies the text at a number of points and which, moreover, was edited to fit both the space on the south wall (note the omissions of repetitive passages) and its specifically Theban context (with strategic expansions in eulogies of divinities to lay special emphasis on Amen). Such an eccentric copy must have been completely laid out, at least, even if it was never carved in its entirety.<sup>110</sup> Since most traces seem to appear at either side of the doorway, it would appear that the carving proceeded from the gateway to the east and west (south wall). A similar movement from the north gate of the Hypostyle Hall along both halves of the north interior wall has been detected.<sup>111</sup> Beyond the wall space in

<sup>103</sup> Wreszinski, *Atlas* II, 54-56a.

<sup>104</sup> G. A. Gaballa, 'Minor War Scenes of Ramesses II at Karnak', *JEA* 55 (1969), 82-88.

<sup>105</sup> Drawings of both triumph scenes were published by Lepsius, *Denkmäler* III 144-145. The topographical lists were also published by J. Simons, *Egyptian Topographical Lists* (Leiden, 1937), nos XXIII and XXIV.

<sup>106</sup> *KRI* II, 152-164.

<sup>107</sup> As noted by Breasted in *The Battle of Kadesh* (Chicago, 1903), pl. vii. For a partial reconstruction of the earlier reliefs, see R. A. Schwaller de Lubicz, *The Temples of Karnak*, (Rochester, VT, 1999), 592, (fig. 51).

<sup>108</sup> Only a few signs, chiefly the ends of the possessive pronouns pꜣ.y.i / tꜣ.y.i / nꜣ.y.i, are noted in the drawing of the original scene (C. Kuentz,

*La Bataille de Qadech*, *MIFAO* 55 (1928), pl. 26, which understandably left the author baffled (*La Bataille*, 47).

<sup>109</sup> Corresponding to the text in *KRI* II 116-124 (§§ 65-110).

<sup>110</sup> In the 1970s, A. J. Spalinger and W. J. Murnane surveyed the Kadesh traces, especially on the west side (from the ground only) and concluded that the original composition was never carved in its entirety. We would still hold to this conclusion after a closer examination of the entire surface of the wall, which is too even to have been shaved back radically at the west end where the original traces disappear. But the careful spacing of the new 'Bulletin' text, along with the random traces which still appear toward the center/east of the wall, indicate that substantial parts of the composition must have been present, at least in paint.

<sup>111</sup> Brand, *The Monuments of Seti I*, 201.

the vicinity of the south gateway, however, little of the Kadesh narrative was carved except for the bandeau-like representation of the Orontes river which stretches along most of the base of the south exterior wall of the Hall and even wraps around the corner to the northern part of the west wall of the *Cour de la cachette* (Fig. 22). Located at the base of the wall, this river bandeau did not require scaffolding to reach and was thus carved first.<sup>112</sup>

Apart from the tablet of the Hittite treaty (which was subsequently carved in the middle of that wall), the titulary bandeau at the top of the wall was the only element of Ramesses II that remained here. It might be assumed the war scenes that replaced the Kadesh reliefs to either side of the treaty also belonged to Ramesses II,<sup>113</sup> before they were usurped by Seti II (whose names now occupy the cartouches), but this appears to be impossible. In the first place, a close examination of these cartouches reveals clear traces of Seti II's father, Merneptah, as the underlying version (Fig. 56).<sup>114</sup> The same scholar who first discovered these traces has also proposed traces of an intermediate version, belonging to Amenmesse – but while it is most likely that the latter vandalized Merneptah's cartouches here, as in many other places, we have found no convincing evidence that Amenmesse's names were ever carved here. More to the point, it is unlikely that Merneptah's names were preceded in these cartouches by those of Ramesses II; the recutting is simply not deep enough to make a double usurpation (i.e. Ramesses II: Merneptah: Seti II) probable.<sup>115</sup> Ramesses II's bandeau text thus must have been sufficient to 'claim' these erased, blank surfaces for this king throughout the remainder of his reign, until the present war scenes were added by Merneptah. The space that was left blank at the southeast corner of the Hall, beside a doorway and beneath scenes decorated by Ramesses II, is a convincing analogy, indicating the way large expanses on temple walls could be 'claimed' by individual rulers with a minimum of decoration.

### 4.3 Loose Blocks and Fragments from the Great Hypostyle Hall

A preliminary survey of fragments from the tops of walls scattered around the precinct of Amen, made early in the 1980s, turned up over 120 blocks. A number of previously unnoted blocks were found in 1991 when these results were checked. Even more blocks were identified in later seasons, 73 in 2002 alone, bringing the speculative total to over 3000. Recording these blocks will make it possible to study them, with the ultimate goal of joining them into scenes and integrating them into the decoration which remains *in situ* on the walls of the Great Hypostyle Hall.

Conserving and moving these fragments to cement risers built for them began in 2000. Funds for doing all this were granted by the National Endowment for the Humanities. To illustrate the results which are expected from this part of the project, the expedition team has reconstituted and collated a wall scene that can be placed more or less exactly in only one area, on the south wing of the west wall, where there is comparatively little material of commensurate size missing.<sup>116</sup> Janusz Karkowski, working with these fragments in 2000

112 A similar phenomenon has been observed by John Baines in the unfinished portions of the southern annex of Seti I's temple at Abydos, where Ramesses II only partially carved painted cartoons left by his father. J. Baines, *et al.*, 'Techniques of Decoration in the Hall of Barques in the Temple of Sethos I at Abydos', *JEA* 75 (1989), 24-28.

113 Thus, for example, D.B. Redford, 'The Ashkelon Relief at Karnak and the Israel Stela', *IEJ* 36 (1986), 188-200.

114 F. J. Yurco, 'Merneptah's Canaanite Campaign', *JARCE* 23 (1986), 189-215.

115 The improbability of a version prior to Merneptah's was established

by Murnane in the spring of 1995 and discussed at the Seventh International Congress of Egyptologists in Cambridge (UK) later that summer. More recently, in March, 2000, the cartouches were re-examined by him in the company of Peter Brand and Sameh Iskander, and the sequence of Merneptah followed by Seti II was reconfirmed. A forthcoming study by Brand will examine in detail various epigraphic and art historical features of the war scenes on the south exterior wall of the Hypostyle Hall and the west exterior wall of the Cour de la Cachette.

116 Murnane in Niwinski (ed.), *Essays in honour of Jadwiga Lipinska*, 107-117.

and 2002, has also reconstructed the decorative scheme of the north gateway's interior lintel. It is hoped that these demonstrations will persuade funding agencies that conservation and analysis of this material is urgently needed so that sections of the building which are not *in situ* may be integrated back into it, first on paper as a necessary preliminary to rebuilding the parts of the Hall which are now missing, if that is what is ultimately desired.

#### 4.4 Columns and Architraves

During its visit to Karnak in May, 1999, the Supreme Council of Antiquities' Permanent Committee called attention to the bases of the columns inside the Great Hypostyle Hall. At present these are a distressing sight, not only due of the discordant ways in which they have been restored in different parts of the Hall, but because the few original bases that do survive are in such poor condition. Most bases are covered by modern restorations – either in cement (which predominates in the northern half of the Hall) or masonry (southern half), leaving relatively few of the original bases visible.<sup>117</sup> All of the remaining texts on these bases are secondary additions, and nothing survives of any original decoration by either Seti I or Ramesses II (if it ever existed). Two bases in the Hall's northern half (Columns 75, 79) preserve traces of a titulary inscribed by Ramesses IV. King Herihor carved a restoration text on bases of the papyrus bundle columns in the southern half of the Hall, and one of these bases also bears Ramesses IV's names.

Even less survives in the central aisle: a fragment of text ('[King X, beloved of] Amen-Re, Lord of the Thrones of the Two Lands') is preserved on the southwest side of the base to Column 6, but the style of these crudely cut hieroglyphs suggests a late (perhaps Roman?) date for this text. All these inscriptions were recorded by this expedition as part of its program of documenting the other stereotyped decorations on the columns: collation was done at night,<sup>118</sup> so that total control over lighting might make it possible to verify as much as possible of these badly eroded texts. Sometimes it is the bases themselves that are most informative in shedding light on the Great Hypostyle Hall's history. For example, the sides of surviving bases that adjoin the central aisle on the Hall's north-south axis were cut back, presumably to widen this processional way, during the first century of the Hall's existence: this could have been done at any time down to (and including) the reign of Ramesses IV,<sup>119</sup> since his cartouches were carved onto a surface that had been reduced in this fashion. Deterioration also seems to have set in while the Hall still functioned as a cult building: whether due to the weight of the columns and the roof (combined, perhaps, with the effects of salinization)<sup>120</sup> and/or to settling that was hastened by the inadequate foundations used in building the Hall, all too many of the bases have been virtually pulverized, and in a few cases it seems clear that repairs were done in antiquity: the top of the base of Column 42, for example, was patched with small blocks of stone (Fig. 59); and at Columns 13, 33 and 52, the weakened stone of the original surface seems to have been carefully cut away, in preparation for a similar repair. While it is difficult to date this restoration of the column bases, it may coincide with another repair that took place during the temple's later history i.e., the shoring up of the lower part of the south wall with new stone (Fig. 57):<sup>121</sup> the original

<sup>117</sup> In the Hall's southern half, for example, original bases can be seen only at Columns 13, 22, 31-33, 40, 42, 49, 51-52, 58, 60, 62-65. More of the original bases survive in the northern half, but these are in poorer condition and only infrequently are their inscriptions preserved.

<sup>118</sup> By Murnane along with Edward L. Bleiberg, in the early summer of 1992, with the kind cooperation of Sayed el-Hegazy (then Chief Inspector for Karnak).

<sup>119</sup> See for now A. M. Roth, 'Some New Texts of Herihor and Ramesses IV in the Great Hypostyle Hall at Karnak', *JNES* 42 (1983), 43-53.

<sup>120</sup> See Brand, 'Repairs Ancient and Modern in the Great Hypostyle Hall at Karnak', *NARCE* 180, (2001), 1 and 3-6.

<sup>121</sup> Cf. J.-C. Golvin and J.-C. Goyon, *Les Bâtisseurs de Karnak* (Paris, 1987), 26 (photograph and caption).

decoration was recopied onto these blocks carelessly, when at all, but in at least one instance the style of the hieroglyphs suggest a date of the Graeco-Roman period (Fig. 58).

As noted above, copying all the scenes on the columns will take some time. The repetitive and/or 'stereotyped' decoration that occupies the greater part of the shafts has already been recorded, however, and while its analysis is a work in progress, some preliminary observations may be made here. First, although the sequence of decoration on the columns is fairly well known, our documentation has made it possible to add two significant details to Ramesses II's program in the Hall. It was already known that Seti I's work on the columns (unlike his carving of the walls) was confined to 'his' northern half of the Hall and barely crossed into the central aisle: the only exceptions are on the clerestory window frames on both sides of the nave (which Seti I had decorated before these surfaces were usurped by Ramesses II)<sup>122</sup> and, above the central two rows of open papyrus columns, on the architraves and abaci (Figs 60-62). Ramesses II later usurped the former, but the latter remained in Seti's name (probably because the broad column capitals, when intact, made them hard to see from the ground).<sup>123</sup> Lower down in the central (east-west) aisle, however, we were able to observe that Ramesses II began decorating the great open papyrus columns at the very beginning of his reign, when he was still using the short form of his praenomen: traces of this earlier name are distinctly visible under the later form which replaced it, *Wsr-mꜣꜥt-Rꜥ stp.n.Rꜥ*. During the same (early) period, Ramesses also began decorating the papyrus bundle columns on the central north-south aisle of the Hall's southern half. Notably, though, he was already using the longer praenomen by the time he was ready to decorate the rest of the columns in the southern half – although on the abaci here we also noticed that he originally spelled his personal name *Rꜥ-ms.sw* (writing it *sw* + quail chick *w*, like his grandfather, Ramesses I).<sup>124</sup> This early spelling of his nomen soon gave way, however, to an abbreviated form, *Rꜥ-ms.s*, which would remain invariable down to the beginning of the reign's third decade. This *Rꜥ-ms.s* form is the one Ramesses II used most on the walls and columns in the Great Hypostyle Hall: it replaced the form with *.sw* on some of the abaci, either in relief or (more frequently) in paint. This change apparently coincides with Ramesses II's recutting of his own names (from earlier forms, carved in raised relief, into later ones, all in sunk relief, on the west and south walls) and with his usurpation of Seti I's names on the central row of architraves and on the walls adjoining this middle aisle, all of which he did as *Rꜥ-ms.s*. Later, however, in or after his twenty-first regnal year, when he had changed the spelling of his nomen back to *Rꜥ-ms.sw* (spelled only with the *sw* biliteral), he would go on to usurp from his father the south-facing architrave (and the soffits) as well as the row of papyrus bundle-columns just north of the central aisle.<sup>125</sup> It was also during this period that he added a single band of large, deeply cut hieroglyphs (consisting of the last two of his 'great names', qualified as 'beloved of' a god or goddess) under the scene on each of the columns. This would complete Ramesses II's plan for the decoration of the columns in the Great Hypostyle Hall: apart from the friezes at the top and bottom, the scenes (generally just one on the papyrus bundle columns) and the text band just mentioned, no other carving was undertaken on the shafts except for the stylized markings that defined the columns as papyrus stalks in stone. As is well known, this layout survives unaltered only in the Hall's southwestern quarter: in all other parts

<sup>122</sup> Brand, *The Monuments of Seti I*, 195-196, 212-213 and plans 2-3.

<sup>123</sup> Brand, *The Monuments of Seti I*, 194-196, 212-216.

<sup>124</sup> This spelling is used only in horizontal cartouches. Contemporary vertical cartouches (on the southern wing of the west wall and the on

the south wall) already use only the *sw*-biliteral, as is the rule later.

<sup>125</sup> See Rondot, *Architraves*, 26-32; and L.-A. Christophe, 'La face sud des architraves surmontant les colonnes 74-80 de la grande salle hypostyle à Karnak', *BIFAO* 60 (1960), 69-82.

of the Hall, Ramesses IV would fill every available space on each column with scenes and decorative friezes of his own.<sup>126</sup>

It is easy to disregard the minor epigraphs that form the bulk of the decoration on the columns as banal and of limited value to understanding the religious significance of the Great Hypostyle Hall. Still, the nature and orientation of such materials can be a source of insight – and to illustrate this proposition we call attention to the large cartouches that were carved over the original papyrus-leaf patterns at the bases of the shafts of columns that lined the main aisles inside the Hall. Christophe was undoubtedly correct when he pointed out that these were originally inscribed by Ramesses IV and usurped by Ramesses VI,<sup>127</sup> but (again) this is not the full story. In 1993, when our expedition traced some of the large cartouches on the great open papyrus columns in the central aisle, we noticed that there were a few too many traces to be accounted for simply by these two royal names which, ostensibly, were the primary and secondary versions here (Fig. 12 A-B). Close examination showed that Ramesses IV had carved his praenomen (*ḥkꜣ-mꜣʿt-rꜥ stp.n.Imn*) twice – first with facing images of Re and Amen at the top of the vertical cartouche, and with the other hieroglyphs arranged below. Subsequently, he suppressed this version (filling the original signs with plaster) and substituted another, dominated by an enormous enthroned figure of Amen (holding a large *ḥkꜣ*-sceptre) below a correspondingly imposing solar disk: the later 'Amen' and 'Re' were next recycled into Ramesses VI's name when he usurped these cartouches. Even with these facts established beyond dispute, however, they leave open the question of why Ramesses IV would go to the trouble of altering his own name in the first place. We may begin to look for an answer by pointing out, first, that the main effect of this change is to aggrandize the figure of Amen; and, second, that this phenomenon occurs only on the columns of the central aisle – the processional avenue that connected Amen's sanctuary, inside the temple, with the outside world. Since it was in this area that Amen's presence was always strongest (whether through proximity to the god's sanctuary or when his statue passed along this way in procession), this unique change would call attention to the special intensity of the god's spiritual aura here. By means of the very hieroglyphs of the king's name, moreover, it would also emphasize that his legitimacy – his right to 'rule' (*ḥkꜣ*) – came from the 'king of the gods' himself. The sense of the change, however, is only tangentially relevant to Ramesses IV himself: its most specific reference is to the area where it occurs – in other words, to this part of a building which, as a whole, revolves around the symbiosis of the king (who is also a god) and the divine 'fathers and mothers' whose service is the most concrete testimonial of his right to govern.<sup>128</sup> Such a suggestive connection between form and function does not appear so consistently in the rest of this sort of stereotyped decoration of the Great Hypostyle Hall. Even so, there are other patterns that need to be examined, and these may yet point to similar manipulations of symbols to convey religious meaning in this and other comparable buildings from ancient Egypt.

<sup>126</sup> The distribution of the original and added decoration on the columns is illustrated in Christophe, *Divinités*, especially on 47 (fig. 2) and 63 (fig. 3), and on pl. xxviii.

<sup>127</sup> E.g., in Christophe, *Divinités* (see previous note) and Barguet,

*Karnak*, 62, 77.

<sup>128</sup> Explored most recently by E. Teeter, *The Presentation of Maat: Ritual and Legitimacy in Ancient Egypt*, SAOC 57 (1997), 82-86, 89-93.

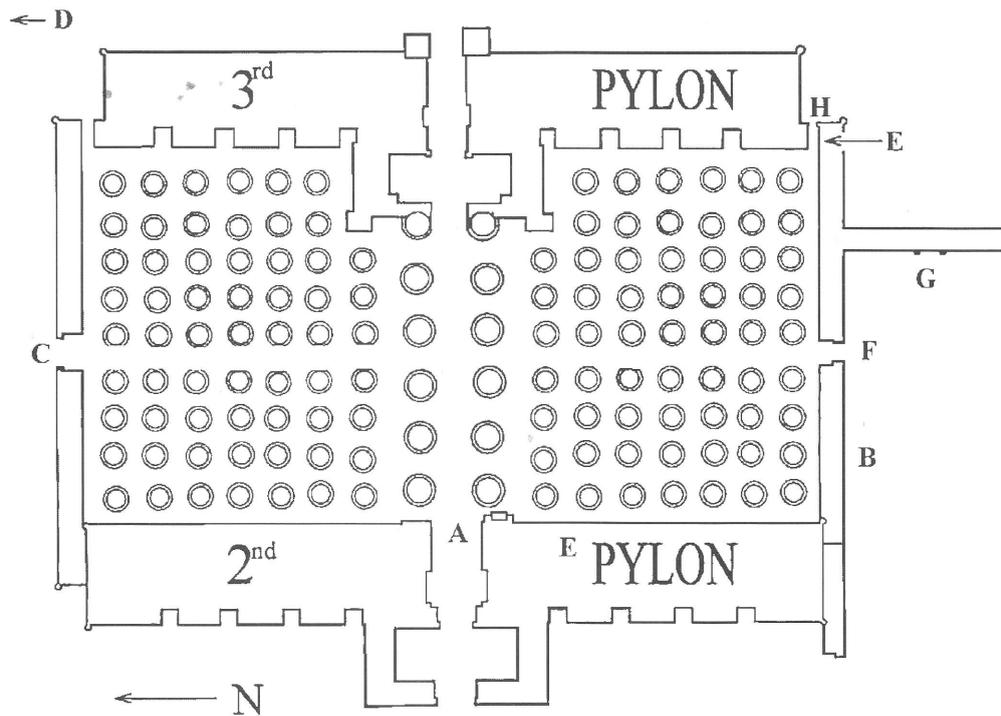


Fig. 1. Plan of Hypostyle Hall. Locations marked with letters indicate areas where the project has worked since 1992.

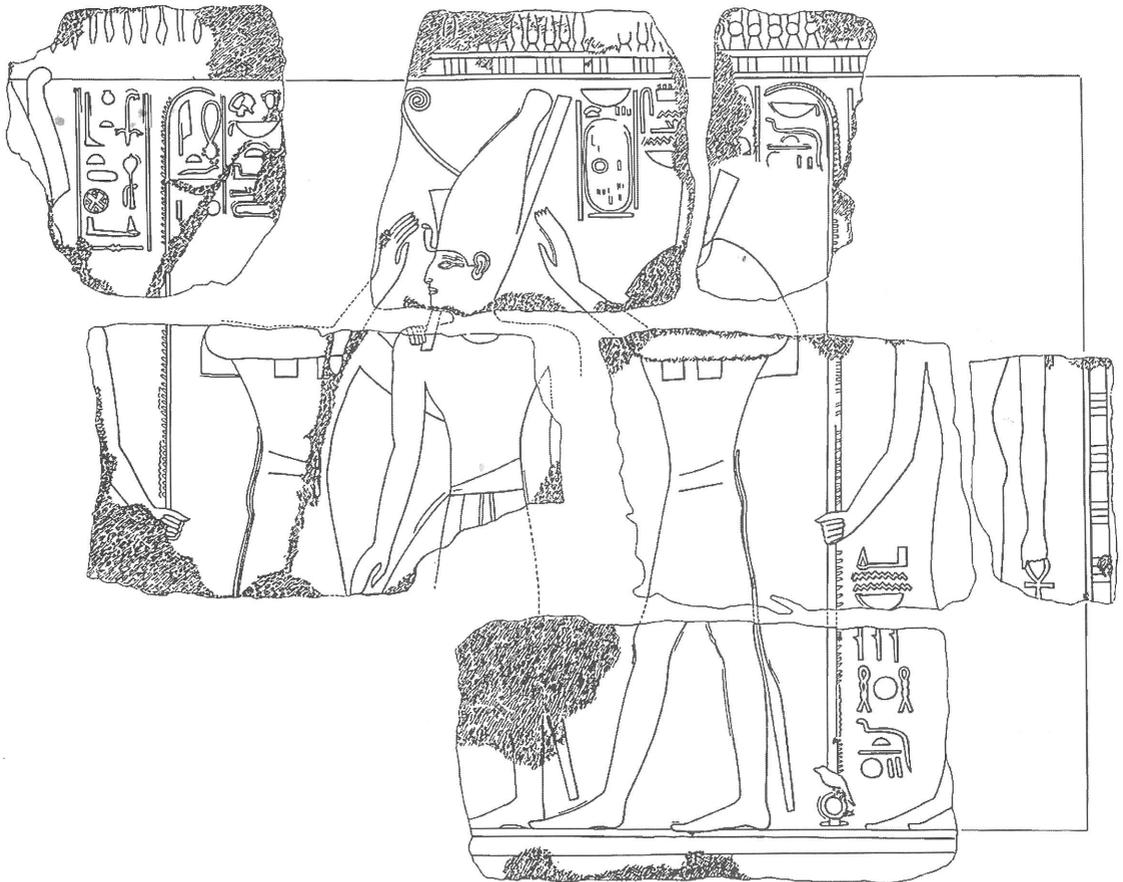


Fig. 2. Scene reconstructed from loose blocks.



Fig. 3. Block from reconstructed scene on waterproof platform.

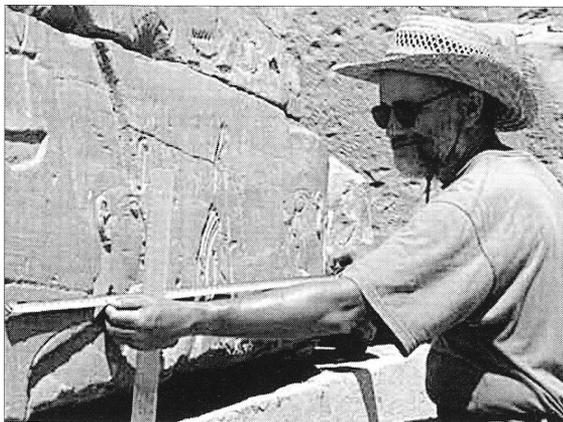


Fig. 4. Janusz Karkowski measuring a block from the south wing of the Hall, 2001 season.

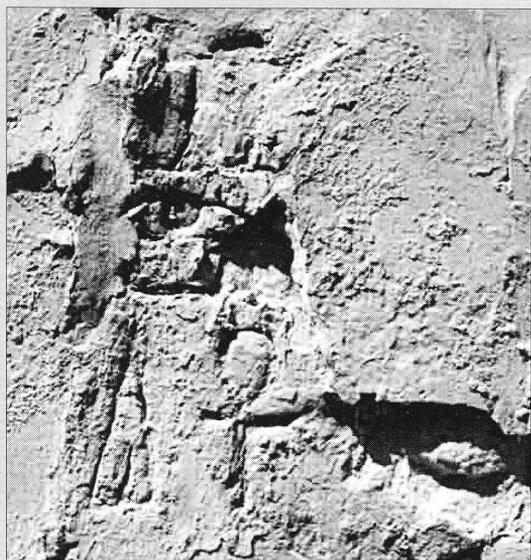


Fig. 5A. Ramesses offering cloth, west wall, south half, bottom register. Note area in front of the king's forward leg as it appeared in 1995.

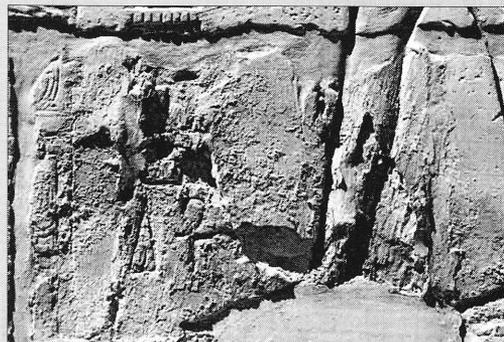


Fig. 5B. Same scene in 2001 after salt infiltration damaged the text in front of the king's leg.

Fig. 5C. Detail of same inscription in 2001.

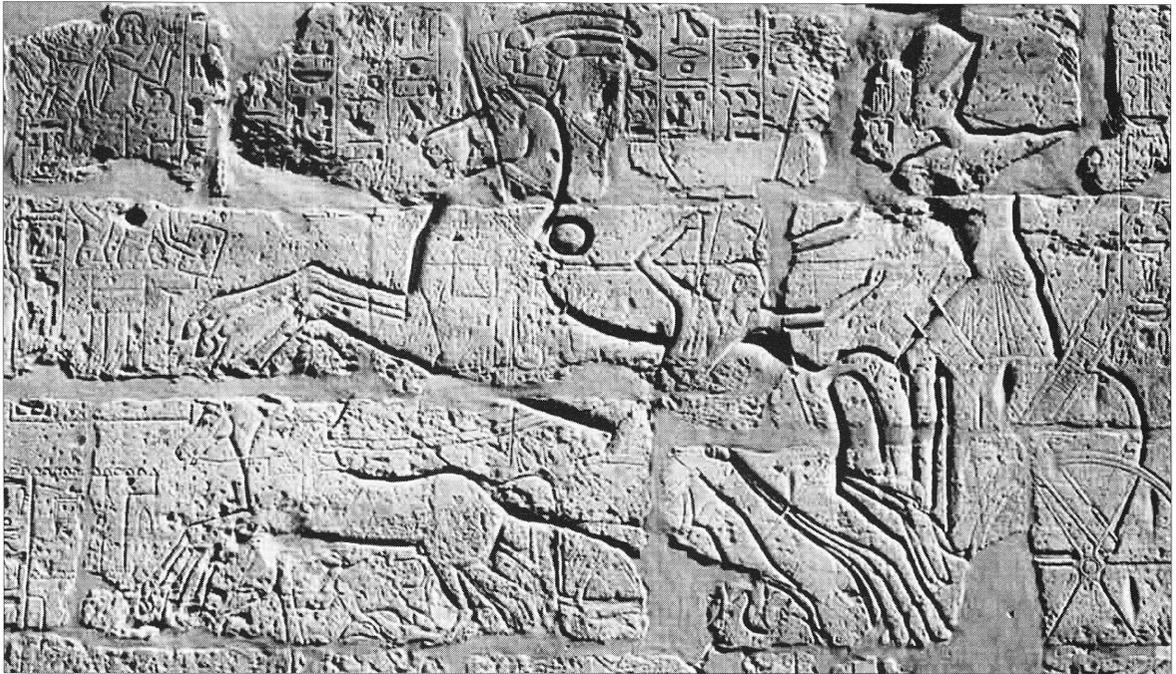


Fig. 6. Battle scene from the south exterior wall.

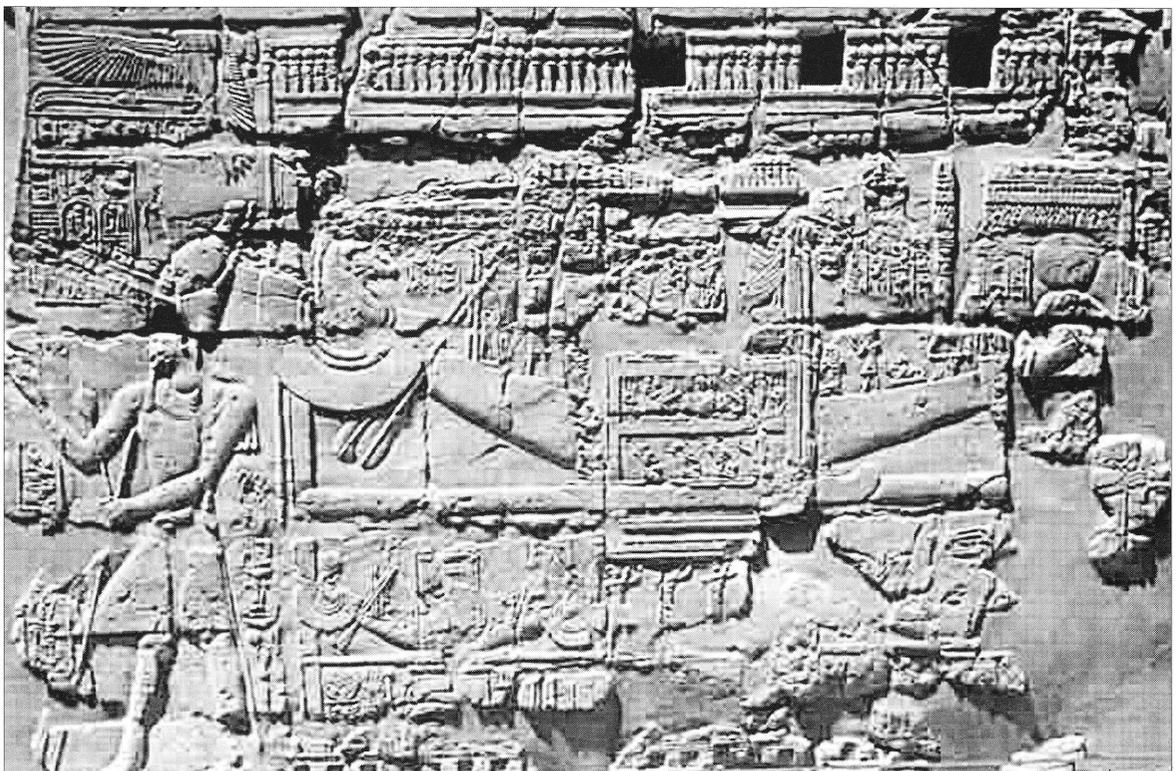


Fig. 7. Barque scene from west passage, south wall, bottom register.



Fig. 8. Ramesside hieroglyphs reworked into Ptolemaic reliefs from the western passageway.

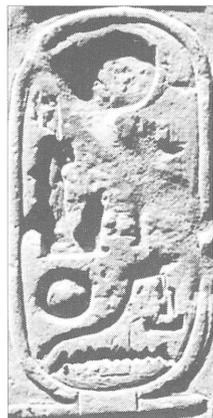


Fig. 9. Cartouche of Ramesses II usurped from Ramesses I in the western passage



Fig. 10. Drawing of the same cartouche.

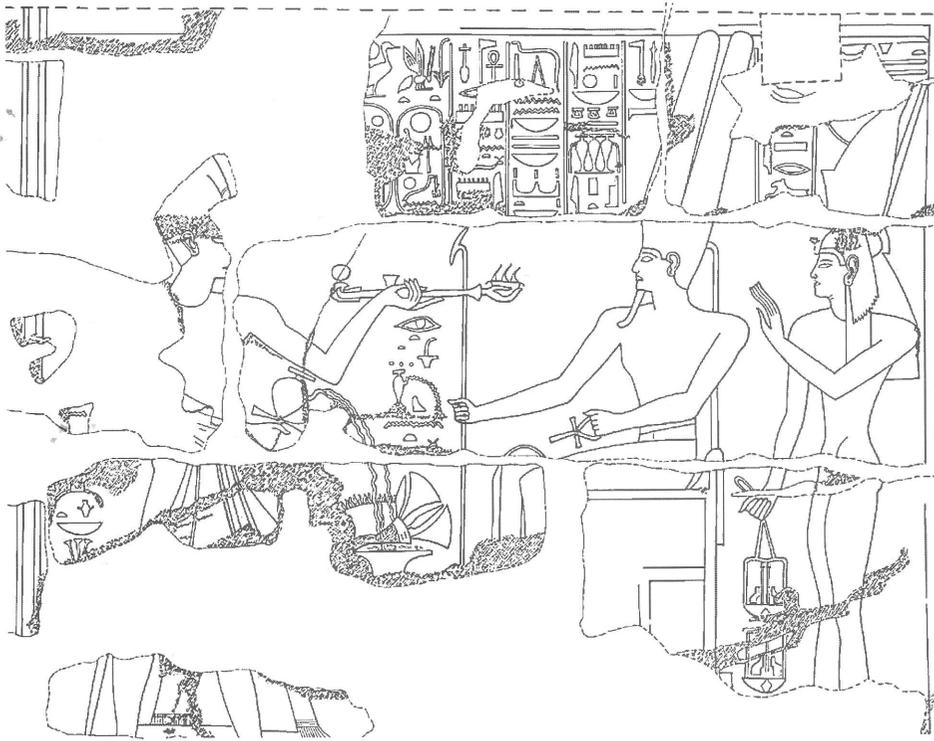


Fig. 11. Ramesses II censures Amen-Re and Mut. Scene from south-east gateway, south wall.



Fig. 12A. Cartouche of Ramesses IV usurped first by himself and subsequently by Ramesses VI, from the base of column 8.

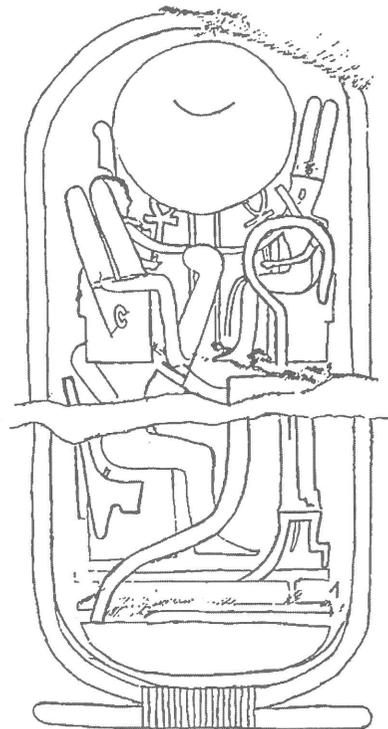


Fig. 12B. Facsimile drawing of the same cartouche.

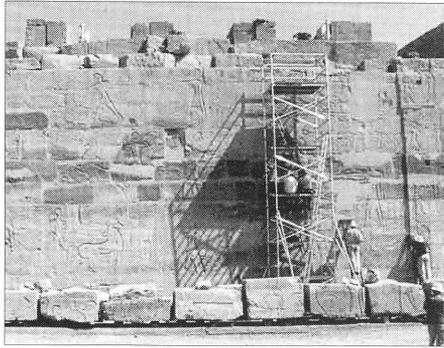


Fig. 13. Scaffolding on south exterior wall, 1995 season.



Fig. 14. Ramesses II offers to Amen-Re and Mut. South gate scene, exterior west jamb, middle. The scene was originally carved by Ramesses in the name of Seti I, but later changed to his own name.

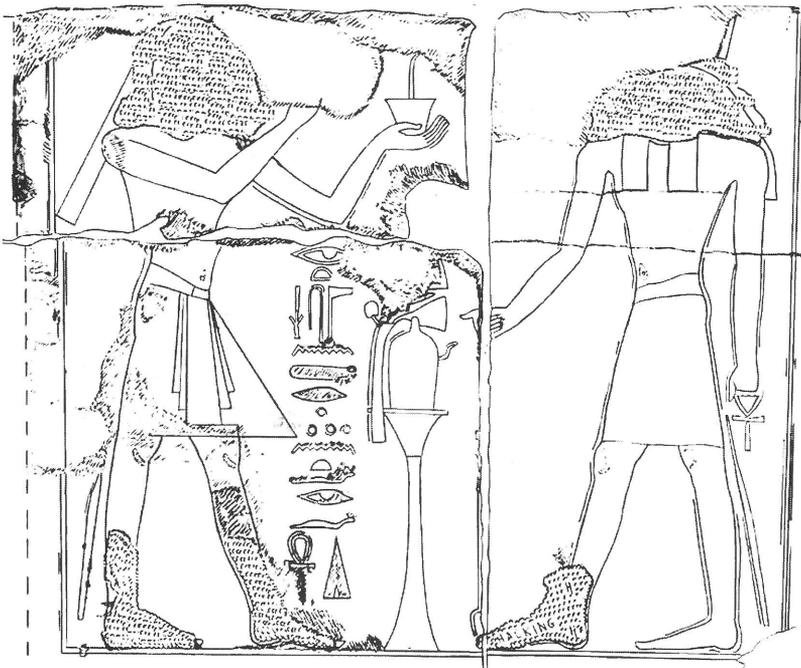


Fig. 15. [King] offers to [deity]. South gate, exterior lintel, west end. Preliminary drawing.

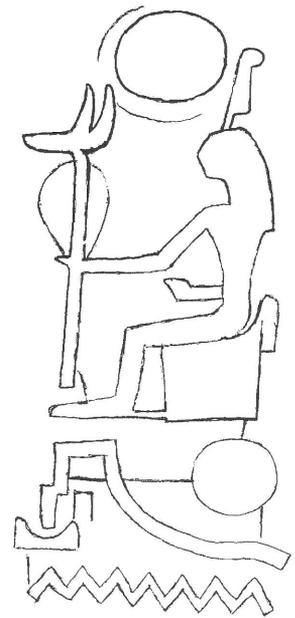


Fig. 16. Drawing of the usurped cartouche from the south gate, middle register. Seti I: Ramesses II.



Fig. 17. Ramesses II (originally Ramesses I) offers *nw*-jars. West gateway, north jamb, top register. The scene

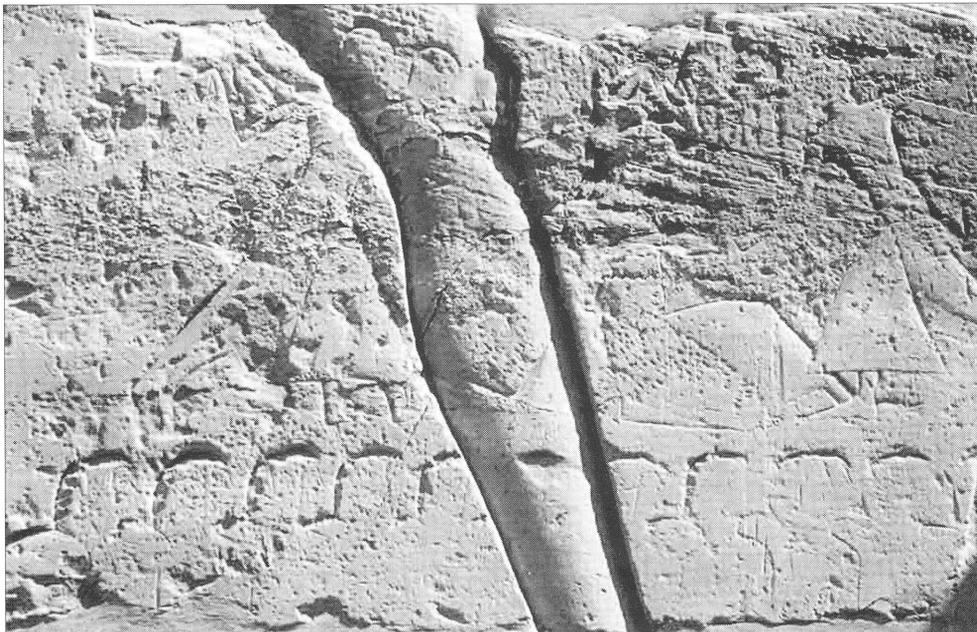


Fig. 18. South exterior wall, large smiting scene, detail of palimpsest. Across the middle of the king's leg, a palimpsest of the Hittite spies from the Kadesh narrative beaten by three Egyptian soldiers. Below are the heads of a row of Egyptian soldiers.



Fig. 19. South exterior wall palimpsest. Ramesses II leads prisoners to Amen with palimpsest of the Orontes river and an Egyptian soldier slaying a Hittite.

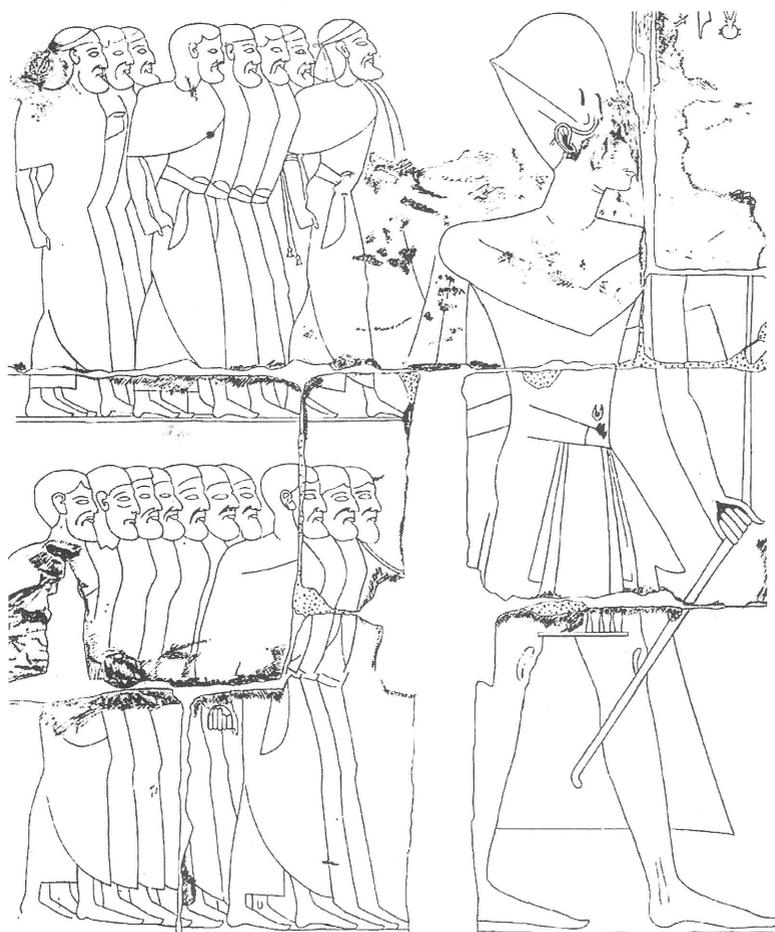


Fig. 20. Ramesses II leading prisoners and presenting spoils to Amen-Re. Southeast gateway, preliminary drawing.



Fig. 21. Smiting scene immediately west of the south gateway with palimpsest of Kadesh narrative.



Fig. 22A. Palimpsest of an Egyptian soldier slaying a Hittite suppressed by the legs of an enthroned Amen-Re.

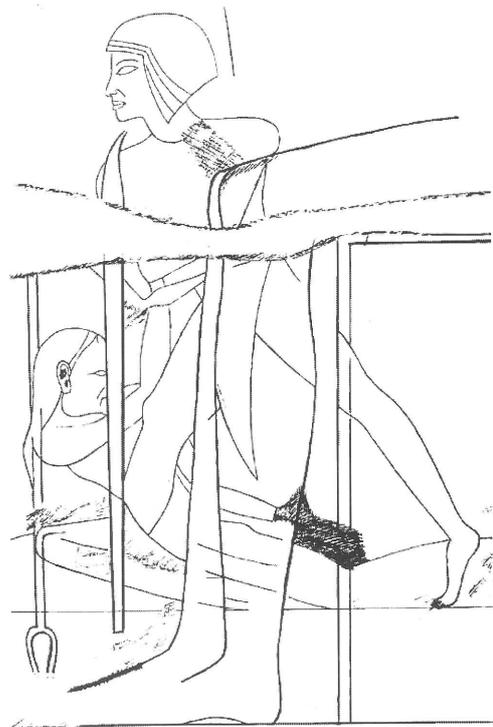


Fig. 22B. Collation sketch of the same palimpsest.

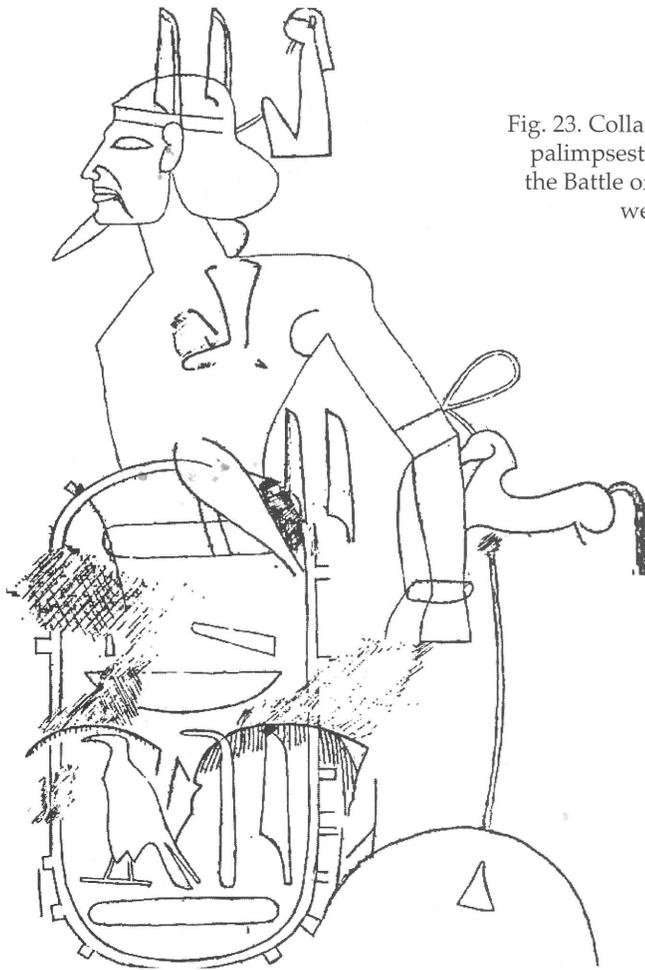


Fig. 23. Collation sketch of a name ring with palimpsest traces of the 'Bulletin' text of the Battle of Kadesh. South exterior wall, western smiting scene.

Fig. 24. Collation sketch of the god Sopdu from the south wall battle scenes with palimpsest of an Egyptian soldier's head from the Battle of Kadesh. South exterior wall, western smiting scene.



Fig. 25. Raised relief block of Seti I originally from the north wall of the Hypostyle Hall.



Fig. 26. Sunk relief block of Ramesses II from the south wing of the Hall.

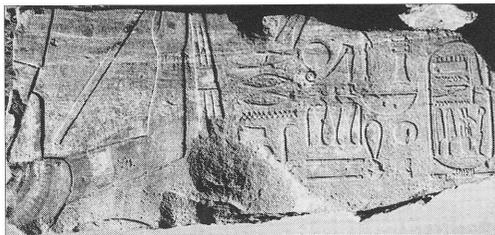


Fig. 27. Raised relief block of Seti I from the north wing with traces of paint.



Fig. 28. Block from the north gateway, interior lintel. Part of a scene showing the king running.



29. Conservator Richard Jaeschke working with Hypostyle Hall blocks on 'Ptah Hill' north of the Hall.

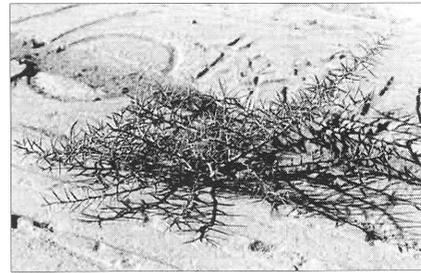


Fig. 30. Split block with camel thorn growing in one of the cracks.



Fig. 31. Removal of earth from a block lying on the ground. The lower part of the block is saturated with moisture and salts. Detached fragments have been conserved separately for re-attachment later.

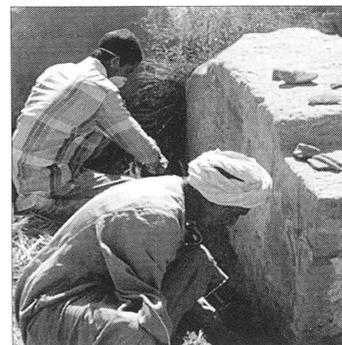


Fig. 32. Egyptian workmen removing vegetation growing among blocks on 'Ptah Hill'.

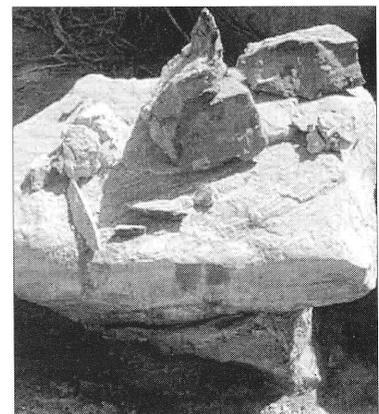


Fig. 33. Detached fragments from a block during conservation.

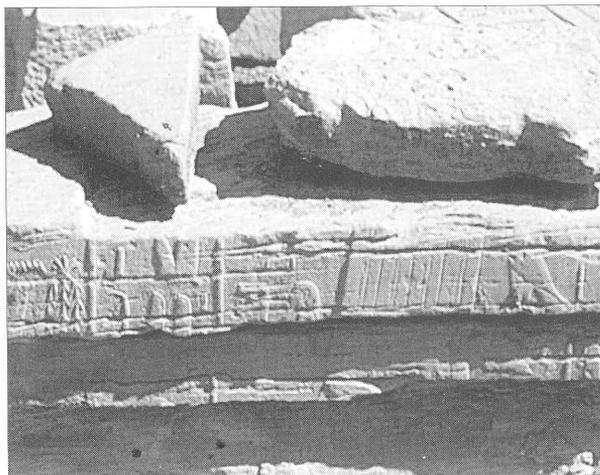


Fig. 34. Block split into several pieces.

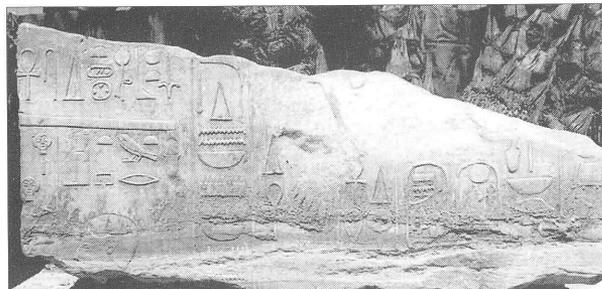


Fig. 35. Block with a heavy concretion of salt before consolidation and cleaning.



Fig. 36. Detail of same block before conservation.



Fig. 37. The same block after conservation and cleaning by Richard Jaeschke, March, 2000.

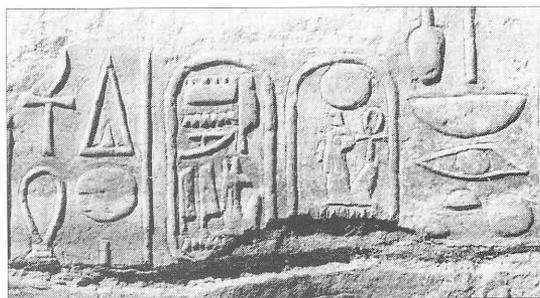


Fig. 38. Detail of the block after conservation and cleaning.

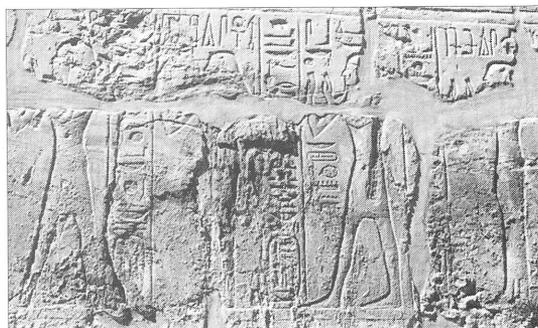


Fig. 39. Members of the Great Ennead from the west interior wall, south half, bottom register. A concretion of insoluble salts covers much of the surface. In other places, the relief is powdering and exfoliating. Photo taken in 2001.

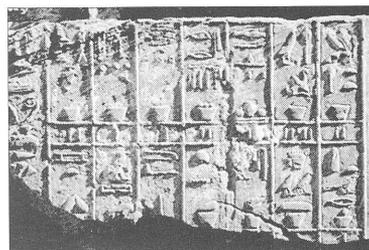


Fig. 40. Offering list from a barque scene of Seti I, west wall, north end, as it appeared in the 1930s. Photo courtesy the Oriental Institute archives, University of Chicago.

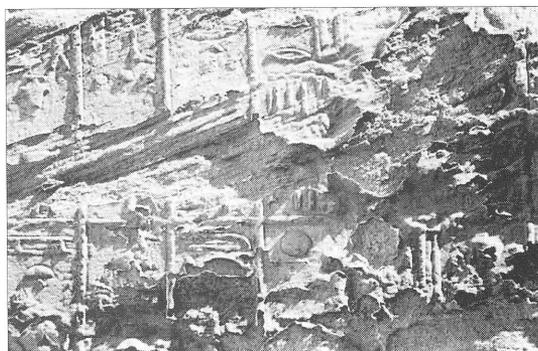


Fig. 41. Detail of the same offering list in 2001. Most of the damage is quite recent.

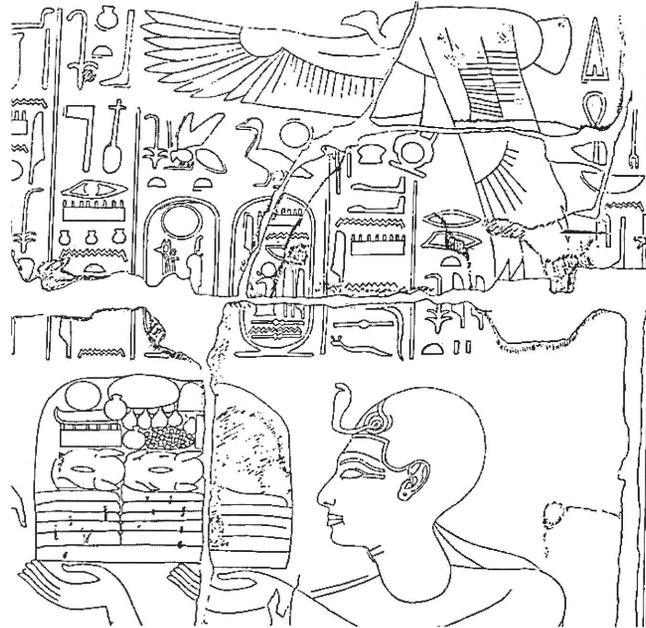


Fig. 42. Ramesses II (usurped from Seti I) offers to Amen-Re.  
Preliminary drawing from west wall, south wing, bottom  
register.



Fig. 43. Ramesses II offers cloth to Amen-Kamutef. Preliminary  
drawing from west wall, south wing, bottom  
register.

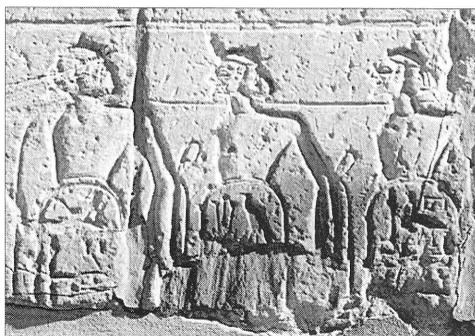


Fig. 44. Decaying name rings, south exterior wall.



Fig. 45. Palimpsest text of the Kadesh 'Bulletin' on the south exterior wall, top register, immediately west of south gateway. Traces of plaster cling to the reed leaf and quail chick hieroglyphs.



Fig. 47. Western passage, relief at the east end of the bottom register of the passage, south wall: Ptolemaic figure of Ramesses III.

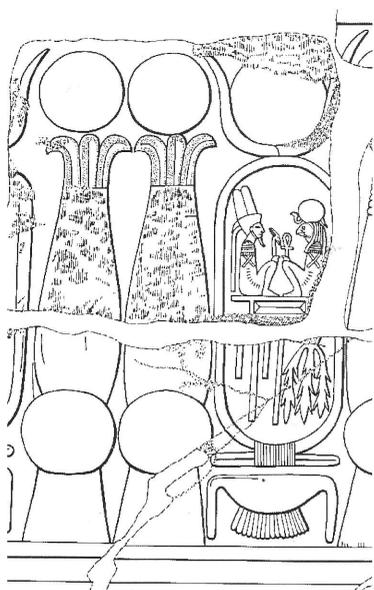


Fig. 46. Part of a cartouche frieze from the top of the western passageway, north wall. Facsimile drawing by Peter J. Brand, inked by Lyla P. Brock.



Fig. 48. Western passage, south wall, upper frieze and first register (both reinscribed for Ramesses II, in raised relief, during the Ptolemaic period).



Fig. 49. Western passage, fourth register (western scene): Ptolemy VI (his figure usurped from its original owner) is led into the temple by Khonsu.



Fig. 52. Sunk relief cartouches of Ramesses II surrounded by raised relief of Ptolemy VI. Western passage, north wall. Traces of a quail chick at the bottom of the nomen and of a larger sun disk surrounding the final one in the prenomen attest to the original presence of Ramesses I's name in raised relief. NB: the interior level of these cartouches is higher than the surrounding Ptolemaic relief, indicating that this surface is original.

Fig. 53. Relief of Horemheb usurped in turn by Ramesses I and Ramesses II. Second Pylon vestibule, south interior wall.

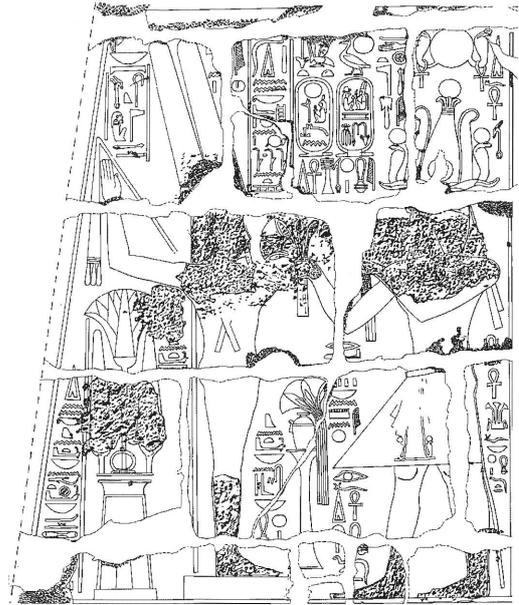


Fig. 50. Ramesses II offers bouquets to ithyphallic Amen-Re. Western passage, south wall, first register. Facsimile drawing by Peter J. Brand, inked by Lyla P. Brock.

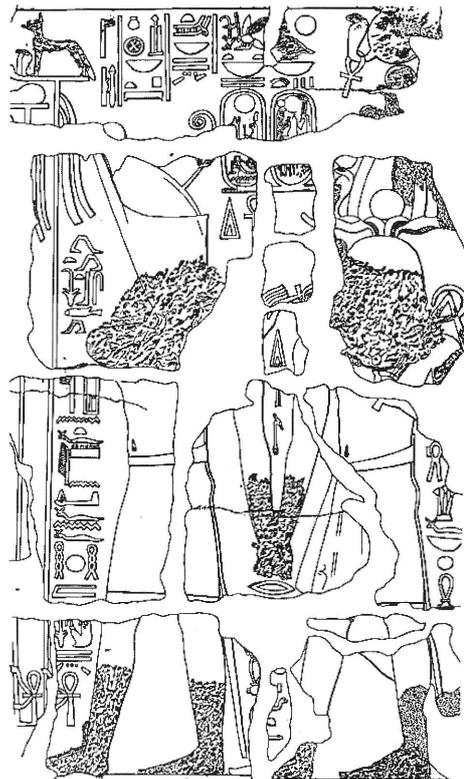


Fig. 51. Ramesses II (usurped from Ramesses I) led by Atum. Western passage, south wall, second register. Facsimile drawing by Peter J. Brand, inked by Lyla P. Brock.



Fig. 54. Block with cartouche of Horemheb usurped by Ramesses I and Ramesses II, originally from the upper facade of the Second Pylon vestibule.



Fig. 56. Cartouches of Merenptah usurped by Seti II from the war reliefs on the west wall of the *Cour de la cachette*.

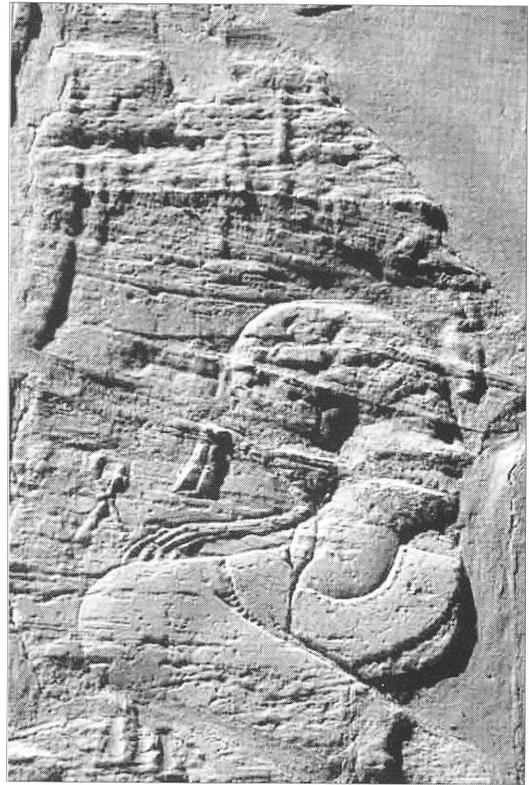


Fig. 55. Western passage, north wall, bottom register, east end: eroded Ptolemaic relief of Taharqa wearing distinctive skull cap with double uraeus and streamers typical of the 25<sup>th</sup> Dynasty kings.



Fig. 57. Repairs made to the base of the south interior wall in the Greco-Roman period. Only the masonry in the lowermost part of the scene has been dressed and some details of the relief restored. Below this, the masons left the stone undressed.

Fig. 58. Ancient repairs made to a scene from the base of the south interior walls in the Greco-Roman period. The prenomen cartouche is original Nineteenth Dynasty relief. Below this, new blocks were inserted and the nomen cartouche, the base of the rnp̄t-staff and the god Thoth's foot were recreated in a decidedly Ptolemaic style.

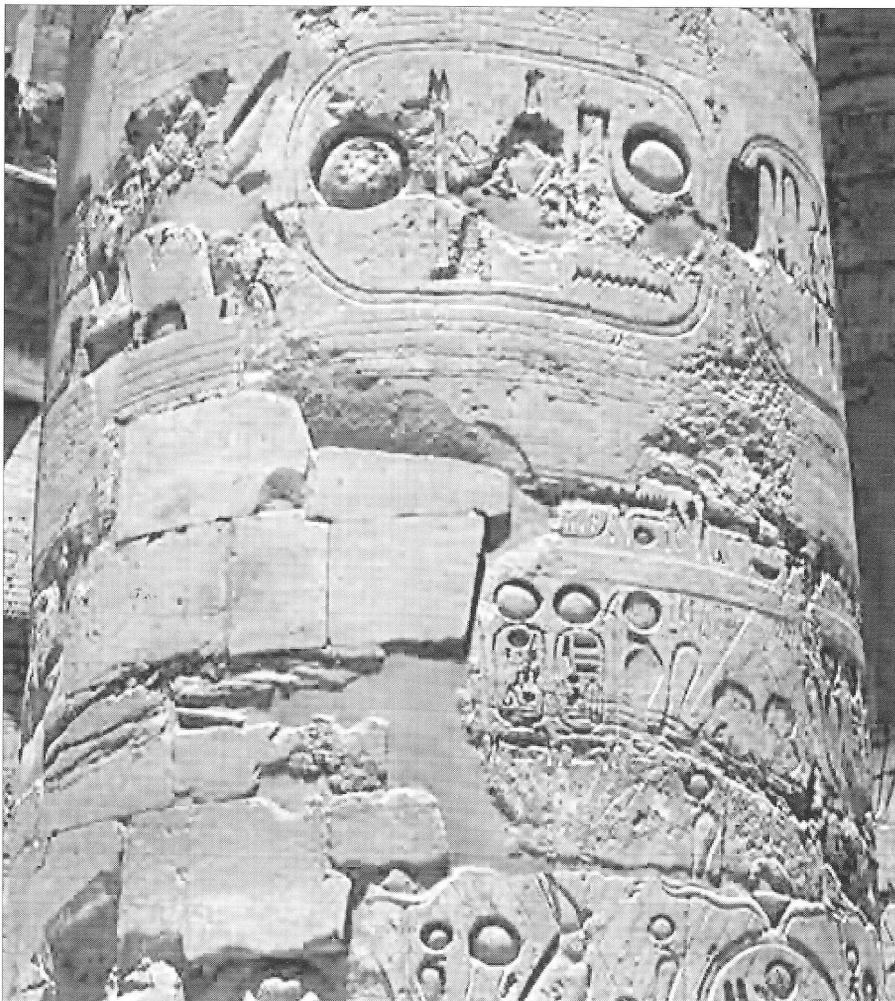


Fig. 59. Ancient repairs to column 42. Weakened stone was replaced with several small blocks, but the original decoration was never recarved.

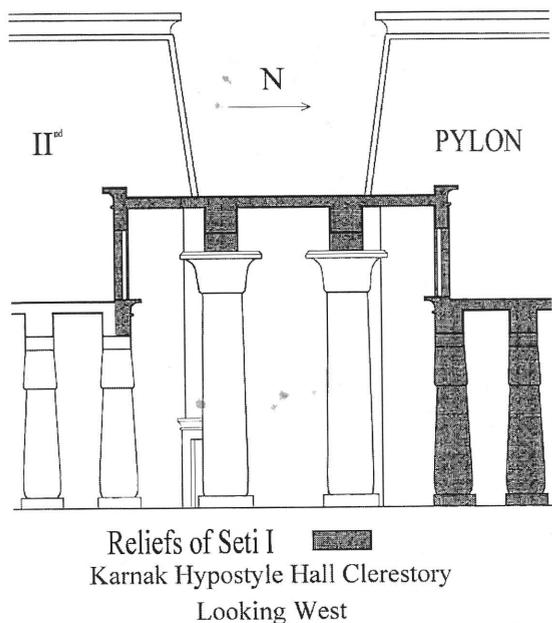


Fig. 60. Elevation showing locations of reliefs of Seti I in the central aisle and clerestory.



Fig. 61. Relief of Seti I usurped by Ramesses II on a pier between the great windows of the clerestory, north aisle.



Fig. 62. Abacus surmounting one of the smaller columns from the northern part of the central aisle. The raised relief cartouche of Seti I has been usurped in sunk relief by Ramesses II, although traces of the original name can still be read. The cartouche ring and frame have all been left in raised relief.



Fig. 63. Cartouche of Ramesses II from the top of the west exterior wall of the *Cour de la cachette*. The cartouche has not been usurped; rather the damage to the relief is 'quarry hacking' due to poor dressing of the stone by the sculptors when this part of the wall was rebuilt when it was joined to the south exterior wall of the Hypostyle Hall. The 'shadow' of the missing torus moulding that ran above the cartouche is carved on the south wall of the Hall itself.



Fig. 64. Ramesses IX receives life from Amen-Re. South-east corner, south end.



Fig. 65. Lower part of a column from the south wing. The column base was completely restored in the 20<sup>th</sup> century.