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Jean-Claude GOYON et Christine CARDIN

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Jean-Claude GOYON et Christine CARDIN



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THE DEVELOPMENT OF ART IN THE EASTERN AND GIS CEMETERIES AT GIZA DURING THE FOURTH DYNASTY: ICONOGRAPHY AND STYLE

LAUREL FLENTYE

A comparative study of the decorative programs in the Eastern and GIS cemeteries at Giza in coordination with the architectural expansion reveals how iconography, style, and technical features impact the development of art during the Fourth Dynasty of the Old Kingdom Period. The Eastern and GIS cemeteries are located adjacent to Khufu's pyramid, but the period of construction and decoration of the selected group of mastabas and rock-cut chapel extends from the reign of Khufu through the early Fifth Dynasty, ca. 2551 to 2438 B.C.¹ Through an analysis of the iconography, style, and technical features in the mastabas and rock-cut chapel, patterns of similarity and difference are created. Although certain elements of the decorative programs are unchanging and essential to the offering cult, such as images of the tomb owner and offering bearers, the introduction of new subject matter suggests that the artistic repertoire is developing in conjunction with changes in ideology. The architectural expansion of the Eastern and GIS cemeteries over time also implies that different groups of artisans were involved in their decoration. How style and carving techniques are affected by these different groups may express overall developments occurring throughout the Giza Necropolis, presumably as a result of the exchange of ideas between the artisans of the royal pyramid complexes and the surrounding cemeteries. Through a study of the royal reliefs excavated at Giza, blocks reused in the pyramid complex of Amenembat I at Lisht, and royal statuary, an iconographical, stylistic, and technical framework can be established with the decoration in the mastabas and rock-cut chapels in the Eastern and GIS cemeteries revealing how the art is developing during the reigns of Khufu, Khafra, and Menkaura.

I. THE EASTERN CEMETERY: ARCHITECTURAL EXPANSION

A study of the development of art in the Eastern Cemetery, located east of Khufu's pyramid, during the Fourth Dynasty is based upon five different phases of architectural

¹ These dates are based on the chronology used by the Metropolitan Museum of Art. See J.P. Allen, «Dynastic and Regnal Dates,» in Dorothea Arnold *et al.*, Egyptian Art in the Age of the Pyramids (New York, 1999), p. xx.

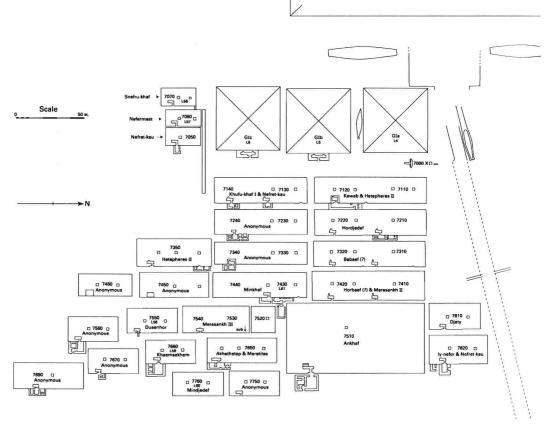


Fig. 1. Plan of the Eastern Cemetery (G7000) (Drawing by Barbara Harper after Reisner, *Giza* I, general plan).

expansion using the archaeological evidence, including graffiti and inscriptions (Fig. 1). The Eastern Cemetery was excavated by George Andrew Reisner of the Harvard University and Museum of Fine Arts, Boston Expedition to Giza between 1925 and the late 1930s.² Phases one and two include the conversion of the twelve original cores into eight twin-mastabas,³ whose owners probably were the sons and daughters of

² G.A. Reisner, *A History of the Giza Necropolis*, I (Cambridge, MA, 1942), p. 25; P. Der Manuelian, Giza Archives Project Director, Museum of Fine Arts, Boston, personal communication.

³ The tomb owners of the eight twin-mastabas are: Kawab and Hetepheres II (G7110/7120), Khufu-khaf I and Nefret-kau (G7130/7140), Hordjedef and wife (G7210/7220), Anonymous (G7230/7240), Babaef (?) and wife (G7310/7320), Anonymous (G7330/7340), Horbaef (?) and Meresankh II (G7410/7420), and Minkhaf (G7430/7440).

Khufu.⁴ However, Jánosi has suggested that Kawab (G7120) may be a «(half-)brother, cousin, or nephew» of Khufu.⁵ The large-scale mastaba of Ankhaf (G7510) is also included within phases one and two based upon the architectural and inscriptional evidence,⁶ although Reisner dated it following the construction of the eight-twin mastabas during the reign of Khafra.⁷ Phase three includes two mastabas in the «en échelon» section: Akhethetep and Meretites (G7650) and G7530/7540 assigned to Hetepheres II.⁸ Meretites and Hetepheres II may be daughters of Khufu suggesting that this area could have been reserved for daughters of the king.⁹ Phase four includes eight nummulitic mastabas in the «en échelon» section, the area South of queen's pyramid GI-c, and North of Ankhaf's mastaba (G7510) in addition to mastaba G7050 assigned to Nefretkau, which is of fine quality limestone.¹⁰ Reisner and Smith dated these eight nummulitic mastabas from mid-Khafra through Menkaura.¹¹ The mastabas of Duaenhor (G7550), Khaemsekhem (G7660), Mindjedef (G7760), and possibly Djaty (G7810) probably belong to younger sons of Khufu based on their titles with *n jt.f*¹² as opposed

- ⁴ For the owners of the eight twin-mastabas, see Reisner, *Giza* I, p. 27, 72, 205-207 (8-17); G.A. Reisner and W.S. Smith, *A History of the Giza Necropolis*, II, *The Tomb of Hetep-heres the Mother of Cheops* (Cambridge, MA, 1955), p. 5-8, 10-11.
- ⁵ Rather than the highest ranking sons closest to the queens' pyramids, Jánosi suggests that Kawab's relationship to the king may be of the same generation. See P. Jánosi, *Giza in der 4. Dynastie: Die Baugeschichte und Belegung einer Nekropole des Alten Reiches.* I. *Die Mastabas der Kernfriedhöfe und die Felsgräber*, *DÖAW* 30 (Vienna, 2005), p. 102-103.
- ⁶ Ankhaf's mastaba aligns with queens' pyramids GI-a and GI-b on the north and south. The offering chapel consists of two false doors, an early chapel type. For the plan of the chapel, see Reisner, *Giza* I, p. 46, 213, figs. 8, 122. For an earlier dating of Ankhaf's mastaba (G7510) to Khufu's reign, see N. Strudwick, *The Administration of Egypt in the Old Kingdom: The Highest Titles and their Holders* (London, Boston, Henley and Melbourne, 1985), p. 41-43, 77-78 (34); Jánosi, *Giza in der 4. Dynastie*, 89, 109-111, figs. 5a, b. Ankhaf's titles include: z3 [nswt] n ht.f smsw, and he may be a son of Snefru. For Ankhaf's titles and his relationship to Khufu, see Strudwick, *Administration*, p. 77-78 (34); M. Baud, Famille royale et pouvoir sous l'Ancien Empire égyptien 2, BdE 126/2 (Cairo, 1999), p. 424-425 (35). Jánosi does argue that he may be of the same generation as the king, such as «(half-)brother, or another relative.» See Jánosi, *Giza in der 4. Dynastie*, p. 111.
 - ⁷ For Reisner's dating of Ankhaf's mastaba (G7510), see Reisner, *Giza* I, p. 28, 148, 212 (4), 308 (d.1b).
 ⁸ *Ibid.*, p. 28, 207 (18), 212 (5).
- ⁹ Meretites' titles include: *hmt ntr Hwfw* and *z3t nswt nt ht.f.* For Meretites' titles, see Baud, *Famille royale* 2, p. 469-470 (86). Hetepheres' titles include: *z3t nswt bjtj Hwfw* and *z3t nswt nt ht.f.* For Hetepheres II's titles in the rock-cut chapel of her daughter (G7530sub), Meresankh III, see D. Dunham and W. K. Simpson, *The Mastaba of Queen Mersyankh III: G7530-7540*, Giza Mastabas 1 (Boston, 1974), p. 10, 13-14, 21, pls. IIIa, IV, VIIc, XV, figs. 4, 7, 14; Baud, *Famille royale* 2, p. 527-528 (163).
- ¹⁰ The eight nummulitic mastabas belong to: Duaenhor (G7550), Khaemsekhem (G7660), Anonymous (G7750), Mindjedef (G7760), Nefermaat (G7060), Snefru-khaf (G7070), Djaty (G7810), and Iy-nefer and Nefret-kau (G7820). See Reisner, *Giza* I, p. 208-209 (27-34). For mastaba G7050 assigned to Nefret-kau, see Reisner, *Giza* I, p. 60, 73, 207 (21), 308 (d.1e).
- ¹¹ Reisner dated the eight nummulitic mastabas from mid-Khafra through mid-Menkaura, see Reisner, Giza I, p. 28, 308-309. Smith dated them from late Khafra to Menkaura, see W.S. Smith, A History of Egyptian Sculpture and Painting in the Old Kingdom (Boston and London, 1946; reprint, New York, 1978), p. 164.
- ¹² For the use of *n jt f* in their titles, see H. Junker, *Gîza II. Die Mastabas der beginnenden V. Dynastie auf dem Westfriedhof* (Vienna and Leipzig, 1934), p. 33-34; K. Baer, *Rank and Title in the Old Kingdom:*

to Reisner's theory that they are actually grandsons of the king.¹³ Mastabas G7050 assigned to Nefret-kau, Nefermaat (G7060), and Snefru-khaf (G7070) may also form a family unit as mother, son, and grandson based upon the inscriptional evidence.¹⁴ However, the assignment of mastaba G7050 to Nefret-kau, who may be a daughter of Snefru based on the inscriptions in the mastabas of Nefermaat (G7060) and Snefru-khaf (G7070), is problematic since her burial should be near that king rather than at Giza.¹⁵ The fifth phase of expansion includes mastabas South of the eight-twin mastabas and the «en échelon» section¹⁶ in addition to the rock-cut chapel of Meresankh III (G7530sub), who is considered to be a granddaughter of Khufu through inscriptional evidence. Reisner dated mastaba G7350 and Anonymous mastaba (G7450) after year 13 of Khafra;¹⁷ while, he placed the Anonymous mastabas (G7560, 7670, and 7690) from Menkaura through the end of Neferirkara's reign.¹⁸

II. THE GIS CEMETERY: ARCHITECTURAL EXPANSION

A study of the mastabas in the GIS Cemetery, South of Khufu's pyramid, provides additional information for the development of art during the late Fourth and early Fifth Dynasties (Fig. 2). The GIS Cemetery was excavated by Hermann Junker of the Austrian Expedition to Giza between 1927 and 1929. Another mastaba, GXS, was excavated by Zahi Hawass South of the satellite pyramid of Khufu (GI-d). The construction of the GIS Cemetery may date from the end of Khufu's reign through Menkaura based upon the archaeological and inscriptional evidence. However, the

The Structure of the Egyptian Administration in the Fifth and Sixth Dynasties (Chicago, 1960), p. 78 (175), 154-155 (579); Strudwick, Administration, p. 165; Baud, Famille royale 2, p. 457 (71), 590-591 (236), 607-608 (249).

- ¹³ For Reisner's reconstruction of the family relationships among the tomb owners of the nummulitic mastabas, see Reisner, *Giza* I, p. 208-209 (27-30, 33-34).
- ¹⁴ G. Reisner, ZÄS 64 (1929), p. 97-99, pls. II, III; *Ibid.*, p. 28, 207 (21), 209 (31-32); Baud, *Famille royale* 2, p. 490-491 (118), 501-502 (131), 571 (211).
 - ¹⁵ I am grateful to Peter Jánosi for his comments regarding mastaba G7050.
- ¹⁶ Phase five includes: mastaba G7350 assigned to Hetepheres II, Anonymous mastabas (G7450, G7460, G7560, G7670, and G7690).
 - 17 Reisner, Giza I, p. 73.
 - ¹⁸ G.A. Reisner, *Giza* II (unpub.), App. B, 116 (12).
- ¹⁹ H. Junker, AnzAWW 65 (1929), p. 148-152, pl. Ib; Reisner, Giza I, p. 25; P. Jánosi, Österreich vor den Pyramiden: Die Grabungen Hermann Junkers im Auftrag der Österreichischen Akademie der Wissenschaften in Wien bei der Groβen Pyramide in Giza, SÖAW 648 (Vienna, 1997), p. 68, plan 3; P. Der Manuelian, «Excavating the Old Kingdom: The Giza Necropolis and Other Mastaba Fields» in Egyptian Art in the Age of the Pyramids (New York, 1999), p. 146; Jánosi, Giza in der 4. Dynastie, p. 255.
- ²⁰ For the plan of GXS, see Z. Hawass, «The Discovery of the Satellite Pyramid of Khufu (GI-d)» in P. Der Manuelian (ed), *Studies in Honor of William Kelly Simpson* 1 (Boston, 1996), p. 380, fig. 1. Also, see Jánosi, *Giza in der 4. Dynastie*, p. 254, 263-264, fig. 56.
- ²¹ The construction sequence in the GIS Cemetery depends upon the removal of the ramp on the south side of Khufu's pyramid, which lead from the quarry further South. In addition, graffiti on mastaba GVIS

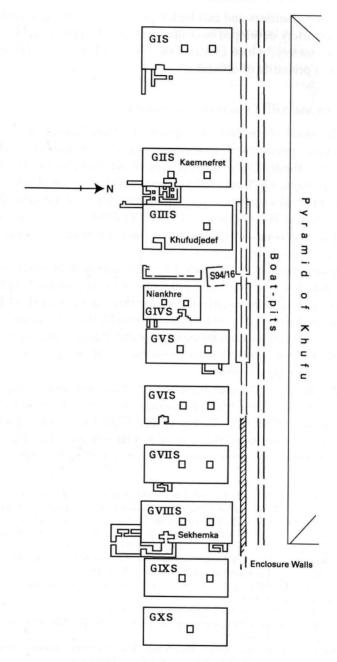


Fig. 2. Plan of the GIS Cemetery (Drawing by Barbara Harper after *PM* III², plan 19 (1)).

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addition of offering chambers and cult buildings to the row of ten mastabas demonstrates that the cemetery developed over time and into the Fifth Dynasty. In contrast to the Eastern Cemetery, which contains the burials of the royal family, the GIS Cemetery consists primarily of officials.²²

III. THE EASTERN AND GIS CEMETERIES: ICONOGRAPHY

A comparative study of the decorative programs in the Eastern and GIS cemeteries based upon these architectural phases creates patterns of similarity and difference in the iconography. Through these patterns, specific iconography can be identified for each phase of expansion, which may reflect changes in ideology. In phase two, there are similar patterns in the decoration of the entrance thicknesses and false door panels. In the chapels of Kawab (G7120) and Khufu-khaf I (G7140), the entrance thicknesses are reconstructed or decorated with images of Anubis within an offering formula. This iconography is used later by Kawab's daughter, Meresankh III, in the decoration of her entrance thicknesses of phase five illustrating the possible influence of family relationships upon the decorative programs. Another pattern of similarity is the decoration of the panels on either side of the false doors in the chapels of Khufu-khaf I (G7140), Hordjedef (G7220), and Horbaef (?) (G7420)²⁶ with images of offering stands and bowls. Yet, even within this similarity are stylistic differences as the high, bold relief of Khufu-khaf I's offering stands contrasts with the low relief in Hordjedef suggesting different groups of artisans.

In phase three, images of women become more prevalent. In the chapel of Akhethetep and Meretites (G7650), Meretites' image, including the Relief of Meretites now in the Museum of Fine Arts, Boston (MFA 37.2620),²⁷ is more prominent due to the assignment of the northern false door of two false doors to her. Her children are also more conspicuous in the decoration,²⁸ which may reflect the increased emphasis

give dates and the name of Menkaura. For a discussion of the graffiti, see H. Junker, AnzAWW 66 (1930), 81-82 (1); H. Junker, Gîza X. Der Friedhof südlich der Cheopspyramide: Westteil (Vienna, 1951), p. 75, 77-78 (9, 10), fig. 35 (9, 10); A.M. Roth, Egyptian Phyles in the Old Kingdom: The Evolution of a System of Social Organization, SAOC 48 (Chicago, 1991), p. 13-15, 130-132, fig. 2.2; A. Spalinger, SAK 21 (1994), p. 289 (3, 6); Jánosi, Giza in der 4. Dynastie, p. 257-258, 442, Tab. C5.

²² However, Junker believed that Khufudjedef (GIIIS) may be of higher status due to his title, z3 nswt, and the type of construction of his mastaba. See Junker, Gîza X, p. 45.

²³ W.K. Simpson, *The Mastabas of Kawab, Khafkhufu I and II*, Giza Mastabas 3 (Boston, 1978), p. 2, 10, pls. Va, XVa, b, figs. 5, 10A, 24, 25.

²⁴ Dunham and Simpson, Mersyankh III, p. 4, 8-9, pl. IIc, d, figs. 3a, b.

²⁵ For Khufu-khaf I's chapel (G7140), see Simpson, Kawab, p. 16, pls. XX, XXIa, fig. 32.

²⁶ Reisner, Giza I, p. 341-342 (d26-28).

²⁷ See Smith, HESPOK, p. 160-161, pl. 41a; W.S. Smith, Ancient Egypt as represented in The Museum of Fine Arts (Boston, 1952), p. 34, 36, fig. 15 for the Relief of Meretites.

²⁸ For the two children represented on the relief in the Calouste Gulbenkian Museum, Lisbon, see Smith, *HESPOK*, p. 160-161, pl. 41b; M.H.T. Lopes, «Relief Block from the Tomb of Princess Merit-ites and

upon the sun-god²⁹ as family images become more frequent in royal statuary during Djedefra's reign.³⁰ The emphasis upon family portraits in relief continues into phase four as opposed to Stadelmann's theory that there are actually fewer family representations in royal statuary during Khafra and Menkaura.³¹ The female offering bearers on the north wall in mastaba G7530/7540 of phase three may be oriented towards an image of a female tomb owner similar to the iconography in the rock-cut chapel of Meresankh III (G7530sub) below.³²

Phase four of the Eastern Cemetery exhibits several patterns of similarity in the iconography suggesting that it was a dynamic period of development and artistic change. The entrance thicknesses of the mastabas of Duaenhor (G7550), Khaemsekhem (G7660), Mindjedef (G7760), and Djaty (G7810) show the tomb owner and his wife seated and facing to the East, usually with an offering table in front.³³ On the interior of the offering chamber, as opposed to phases two and three which typically show the tomb owner on the northern end of the east wall facing South,³⁴ phase four mastabas usually have the tomb owner on the southern end oriented to the North in a «viewing» scene.³⁵ One of the themes of these «viewing» scenes is agriculture. Images of sheep and/or goats on the east walls in the mastabas of Duaenhor (G7550) and Djaty (G7810)³⁶ in probable scenes of sowing contribute to the development of this theme. This subject matter also appears in the decoration of the rock-cut chapel of Meresankh III (G7530sub) of phase five demonstrating the importance of these «fields» to the afterlife of the tomb owner.³⁷ Finally, the use of «palace façade»

Akhti-hetep» in Katharine Baetjer and James David Draper (eds), "Only the Best:" Masterpieces of the Calouste Gulbenkian Museum, Lisbon (New York, 1999), p. 24 (6).

²⁹ A.M. Roth, *JARCE* 30 (1993), p. 54.

- ³⁰ M. Baud, «Études sur la statuaire de Rêdjedef. I. Rapport préliminaire sur la collection de l'IFAO» in *L'art de l'Ancien Empire égyptien* (Paris, 1999), p. 48, 60, fig. 8a, b; R. Stadelmann, «Représentations de la famille royale dans l'Ancien Empire» in *L'art de l'Ancien Empire égyptien* (Paris, 1999), p. 175, 188, fig. 8a, b.
 - 31 Stadelmann in L'art de l'Ancien Empire égyptien, p. 175-176.

³² For the north wall in mastaba G7530/7540, see Dunham and Simpson, *Mersyankh* III, p. 3, pl. XIIIa; Simpson, *Kawab*, fig. 72.

- ³³ For the mastabas of Khaemsekhem (G7660) and Mindjedef (G7760), see Reisner, *Giza* I, p. 318 (16, 25), 319 (2a). For Mindjedef's mastaba (G7760), see LD I, Text, 84-85 (60); LD II, pl. 33a; H. Junker, *Gîza III. Die Mastabas der vorgeschrittenen V. Dynastie auf dem Westfriedhof* (Vienna and Leipzig, 1938), p. 45 (38).
- ³⁴ In Khufu-khaf I's offering chamber (G7140) of phase two, the tomb owner is shown seated on the northern end of the east wall oriented to the South. See Simpson, *Kawab*, p. 13, pl. XVIII, fig. 30. In Akhethetep and Meretites' offering chamber (G7650) of phase three, the tomb owner and his wife are shown standing and facing to the South on the east wall with several of their children.
- ³⁵ The mastabas of phase four that depict the tomb owner on the southern end oriented to the North include: Duaenhor (G7550), Khaemsekhem (G7660), and Djaty (G7810). Nefermaat is shown with his wife on the southern end of the east wall in G7060.
 - ³⁶ For the east wall in Djaty's mastaba (G7810), see Reisner, Giza I, p. 322 n. 1.
 - ³⁷ Dunham and Simpson, Mersyankh III, p. 4, 11, pl. IV, fig. 4.

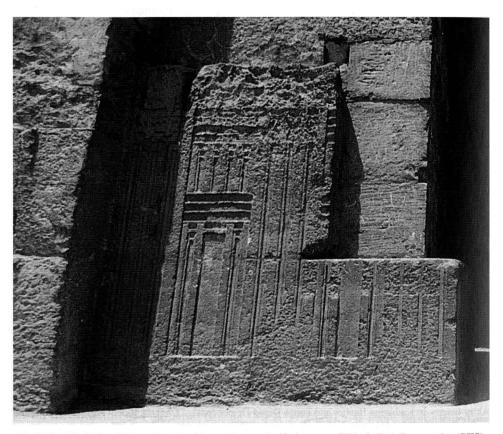


Fig. 3. Detail of the «Palace Façade» Decoration on the Embrasure of Khufudjedef's mastaba (GIIS), GIS Cemetery (Photograph published with the permission of Dr. Zahi Hawass, Secretary-General, Supreme Council of Antiquities, Egypt).

decoration on the west walls of phase four mastabas³⁸ reflects overall changes occurring throughout the Giza Necropolis as it is also a feature of the rock-cut chapels of the sons of Khafra in the Central Field.³⁹ In Nefermaat's mastaba (G7060), the addition of «palace façade» decoration to the west wall alters its design with images of

³⁸ These mastabas include: Mindjedef (G7760), mastaba G7050 assigned to Nefret-kau, Nefermaat (G7060), Snefru-khaf (G7070), and Djaty (G7810). See Reisner, *Giza* I, p. 381-382 (e2-4, f1-2); H. Altenmüller, «Der Grabherr des Alten Reiches in seinem Palast des Jenseits: Bemerkungen zur sog. Prunkscheintür des Alten Reiches» in C. Berger and B. Mathieu (eds), *Études sur l'Ancien Empire et la nécropole de Saqqâra dédiées à Jean-Philippe Lauer* 1, *OrMonsp* 9 (Montpellier, 1997), p. 12-13 (1.4.5, 1.4.6).

³⁹ I am grateful to Peter Jánosi for his comments regarding the development of «palace façade» decoration at Giza.

the tomb owner and/or his wife oriented inwards on either side replacing registers with estates and offering bearers.⁴⁰ In the GIS Cemetery, the decoration of the embrasure of Khufudjedef's mastaba (GIIIS) with «palace façade» decoration shows how such motifs were assimilated by other cemeteries at Giza⁴¹ (Fig. 3).

Finally, a distinct feature of the iconography in phases four and five is the increased scale of children of the tomb owner. On a relief assigned to mastaba G7350, which is now in the Egyptian Museum, Cairo (JE 54939), the younger female's scale is probably related to her status as suggested by the inscription above, hmt nswt mr. The increased scale of sons in phases four and five is made possible due to the absence of the wife on certain sections of the chapel that were originally reserved for her image. The replacement of the wife by the tomb owner's son must be related to his increased importance within the offering cult.

IV. THE EASTERN CEMETERY: STYLE

A comparative study of style and technical features of the relief decoration in the Eastern and GIS cemeteries reveals the diverse character of the development of art during the Fourth Dynasty. In his analysis, Junker identified a «Gîza-Stil» based on its «monumental and austere» style;⁴⁴ while, Reisner characterized two different styles or schools, Sculptors A and B, using the stylistic features of the statuary of Khafra and Menkaura.⁴⁵ Based upon the five phases of expansion in the Eastern Cemetery, the style of the reliefs differs due to many influences including the type of limestone, fine quality versus nummulitic.

The mastabas in phase two, the eight twin-mastabas and the mastaba of Ankhaf (G7510), are carved primarily in low relief from fine quality limestone.⁴⁶ This low

⁴¹ Reisner, Giza I, p. 381 (c2); Junker, Gîza X, p. 47, 51, 52, figs. 23, 24, pls. IIIc, IVa.

⁴³ «Relief der Königin Hetep-heres II» in *Nofret-Die Schöne: Die Frau im Alten Ägypten* (Cairo and Mainz, 1984), p. 60 (23); P. Jánosi, ZÄS 123 (1996), p. 56, fig. 5.

⁴⁵ Sculptor A worked in a more severe style; while, Sculptor B was more realistic in his approach emphasizing a softer appearance. See G.A. Reisner, *Mycerinus: The Temples of The Third Pyramid at Giza* (Cambridge, MA, 1931), p. 127-129; Smith, *HESPOK*, p. 35-36 for a discussion of these two styles.

⁴⁶ However, relief fragments with hieroglyphs from Babaef (?) and wife (G7310/7320) and Horbaef (?) and Meresankh II (G7410/7420) are carved in a low to medium style.

⁴⁰ For the west wall in Nefermaat's mastaba (G7060), see LD I, Text, 82-83 (57); LD II, pl. 17a; Junker, *Gîza* III, p. 45 (36).

⁴² This development occurs in the mastabas of Snefru-khaf (G7070), Djaty (G7810), G7350 assigned to Hetepheres II, and possibly Anonymous (G7750) and Iy-nefer and Nefret-kau (G7820), and the rock-cut chapel of Meresankh III (G7530sub).

⁴⁴ For the «Gîza-Stil», see H. Junker, ZÄS 63 (1928), 1-14; H. Junker, Gîza I. Die Mastabas der IV. Dynastie auf dem Westfriedhof (Vienna and Leipzig, 1929), p. 74-81, figs. 6, 7; R. Stadelmann, «Der Strenge Stil der frühen Vierten Dynastie» in Rainer Stadelmann et al., Kunst des Alten Reiches, SDAIK 28 (Mainz am Rhein, 1995), p. 155; Jánosi, Giza in der 4. Dynastie, 79-84. For a recent discussion of Stadelmann's assessment of the «Gîza-Stil», see P. Der Manuelian, Slab Stelae of the Giza Necropolis, Publications of the Pennsylvania-Yale Expedition to Egypt 7 (New Haven and Philadelphia, 2003), p. 138.

relief style was classified by William Stevenson Smith based upon the slab-stelae, reliefs from the royal pyramid complexes, including those reused in the pyramid complex of Amenemhat I at Lisht, and queen's pyramid GI-b as well as several mastabas in the Eastern and Western cemeteries at Giza.⁴⁷ However, there are two exceptions among the mastabas of phase two, Kawab (G7110/7120) and Khufu-khaf I (G7130/7140), which actually possess all three types: low, medium, and high relief. The presence of high, bold carving in the chapel of Khufu-khaf I (G7140), particularly the definition of the musculature through a series of ridges and grooves, is similar to the carving of reliefs from Junker's mastaba IIn (G4260) in the Western Cemetery and now in the Pelizaeus-Museum, Hildesheim, which are dated from Khufu through Djedefra⁴⁸ (Fig. 4). Even offering bearers in Khufu-khaf I's chapel (G7140) have the same diagonal groove behind the kneecap that is exhibited on a fragment from mastaba IIn.⁴⁹

The discrepancy in phase two between mastabas carved in low relief and those in a higher bold style must be a result of the different groups of artisans. In contrast to the bold relief style in Khufu-khaf I's chapel (G7140), Ankhaf's mastaba (G7510) is in low relief characterized by precision carving. The modeling of the facial features on the estates and offering bearers as well as the bodies of the animals accentuates their overall structure. Although the mastaba of Ankhaf (G7510) is generally assigned to Khafra's reign based on its location outside of the eight twin-mastabas, ⁵⁰ the low relief decoration compares stylistically with reliefs from Hemiunu's mastaba (G4000), royal reliefs excavated at Giza, and those reused in the pyramid complex of Amenemhat I at Lisht in addition to fragments from queen's pyramid GI-b. ⁵¹ The assignment of Ankhaf's reliefs to Khufu's reign would coordinate with the theory that the mastaba was constructed in the early phases of the Eastern Cemetery. ⁵²

The mastabas of phase three, Akhethetep and Meretites (G7650) and G7530/7540, represent two different styles of relief in fine quality limestone: low and medium respectively. Reisner dated the mastaba of Akhethetep and Meretites (G7650) to Khafra based upon its construction and location outside of the eight twin-mastabas.⁵³ Although the graffiti associated with Akhethetep and Meretites' mastaba (G7650), year of the 12th occasion and year of the 13th occasion, would place it late in Khafra's

⁴⁷ For the low relief style, see Smith, *HESPOK*, p. 160, 361.

⁴⁸ See Junker, *Gîza* I, p. 188-190, fig. 37 (1, 2, 8), pl. XXXa, b; Smith, *HESPOK*, p. 162; K. Martin, *Reliefs des Alten Reiches* 2, CAA Pelizaeus-Museum Hildesheim 7 (Mainz am Rhein, 1979), p. 9-14 (2382, 2383) for the relief fragments from Junker's mastaba IIn (G4260).

⁴⁹ For the offering bearers in Khufu-khaf I's chapel (G7140), see Simpson, *Kawab*, p. 16, pl. XXb, fig. 32. For the offering bearer (?) in mastaba IIn, see Martin, *Reliefs des Alten Reiches* 2, p. 20-25 (8).

⁵⁰ Reisner, Giza I, p. 28, 73, 84 (f), 212 (4), 308 (d.1b).

⁵¹ This stylistic comparison was already noted by Smith, although he also dated Ankhaf's mastaba (G7510) to Khafra similar to Reisner. See Smith, *HESPOK*, p. 160, 361.

⁵² For the dating of Ankhaf's reliefs to Khufu's reign, see Jánosi, Giza in der 4. Dynastie, p. 111.

⁵³ Reisner, Giza I, p. 28, 73, 84 (f), 212 (5), 308 (d.1c).

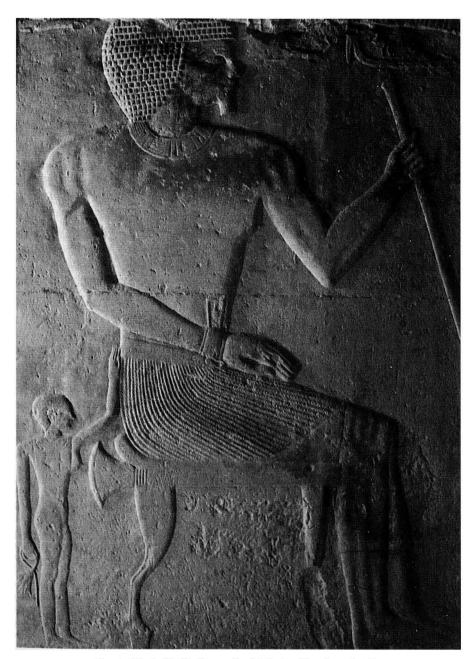


Fig. 4. Khufu-khaf I, East wall of Offering Chamber (G7140) (Photograph published with the permission of Dr. Zahi Hawass, Secretary-General, Supreme Council of Antiquities, Egypt).

reign,54 a date in Khufu is also proposed for the graffiti depending upon a longer reign length for that king.⁵⁵ The relief decoration is low and delicate and has stylistic features characteristic of both Djedefra and Khafra. Meretites' face retains the «bony structure» and sharply outlined lips of the Head of King Djedefra in the Louvre (E 12626).⁵⁶ However, the treatment of her eyebrow as a «ribbon» coupled with the large, open eye more closely resembles images of Khafra.⁵⁷ The carving of minor figures in the chapel of Akhethetep and Meretites (G7650) in low relief with features in higher relief, such as the hand, is stylistically related to the relief discovered by Hölscher and assigned to Khafra's pyramid complex.⁵⁸

By contrast, mastaba G7530/7540 assigned to Hetepheres II is carved in a medium style of relief. Although Reisner dated the mastaba to Khafra based on its construction and location,⁵⁹ its reliefs lack the fine, delicate quality of carving characteristic of the mastaba of Akhethetep and Meretites (G7650).60 In fact, the medium style of relief in mastaba G7530/7540 may actually coordinate with the nummulitic mastabas of phase four rather than phase three. It is even suggested that the decoration in this mastaba might be later than the first half of Khafra's reign, 61 contrary to the graffiti giving year of the 7th occasion, 62 which illustrates the discrepancy between construction and the actual decoration of the chapel.

In phase four, the relief style of the nummulitic mastabas and mastaba G7050 is generally of medium height.⁶³ However, there are exceptions including Anonymous mastaba (G7750), whose entrance thicknesses are carved in a high, bold style; while,

⁵⁵ See Jánosi, Giza in der 4. Dynastie, p. 98 for this possibility. A year 27 in Khufu's reign was discovered near the Dakhla Oasis. See Rudolph Kuperand, Frank Förster, EA 23 (2003), 26 for the year 27.

255 (58). However, Meretites' eyebrow tapers more than on the images of Khafra.

⁵⁹ Reisner, Giza I, p. 28, 73, 84 (f), 207 (18), 308 (d.1d).

⁶⁰ The relief is higher in mastaba G7530/7540. In both mastabas, the edges of the relief are rounded; however, in the mastaba of Akhethetep and Meretites (G7650), they are more angled shaping the relief.

61 I am grateful to Peter Jánosi for his comments regarding mastaba G7530/7540; and, in particular, his theories concerning the use of «palace façade» decoration as traces of niching were found in G7530/ 7540. For this niching, see Reisner, Giza I, p. 381 (e1); Altenmüller, Études Lauer 1, p. 13 (1.4.6).

⁶² For the graffiti, see Smith, JNES 11 (1952), p. 119, 127 (9), fig. 7; Dunham and Simpson, Mersyankh III, 3, fig. Ib, c.

⁶³ Smith, HESPOK, p. 164. In the nummulitic mastabas, the edges of the relief are generally more angled than the relief in the chapels of fine quality limestone, particularly among the eight-twin mastabas.

⁵⁴ For the graffiti, see *ibid.*, p. 73 n. 1; W. S. Smith, *JNES* 11 (1952), p. 119, 127-128 (11), fig. 7; Spalinger, SAK 21 (1994), p. 286-287 (2, 4); J.S. Nolan, «The Original Lunar Calendar and Cattle Counts in Old Kingdom Egypt» in S. Bickel and A. Loprieno (eds), Basel Egyptology Prize 1: Junior Research in Egyptian History, Archaeology, and Philology, AH 17 (Basel, 2003), p. 95, Tab. 1 (54, 56).

⁵⁶ C. Ziegler, «Head of King Djedefre» in Egyptian Art in the Age of the Pyramids (New York, 1999), p. 248-249 (54). However, the ridge defining her mouth is also apparent on a head of Khafra (MFA 21.351). ⁵⁷ C. Ziegler, «Head of King Khafre» in Egyptian Art in the Age of the Pyramids (New York, 1999),

⁵⁸ For the relief assigned to Khafra's pyramid complex, see U. Hölscher, Das Grabdenkmal des Königs Chephren, Sieglin Exp., vol. I, (Leipzig, 1912), p. 110-111, figs. 162, 163. See Do. Arnold, «Group of Archers» in Egyptian Art in the Age of the Pyramids (New York, 1999), p. 264-267 (66), particularly 267 n. 13 for the style of the relief.

the false door, carved from a block of fine quality limestone, is in low relief.⁶⁴ Smith remarked upon the medium style of relief in these nummulitic mastabas⁶⁵ but its earlier appearance in the chapels of Kawab (G7120) and Khufu-khaf I (G7140) of phase two already demonstrates that it was in use among the eight twin-mastabas.

In phase four, there are distinct patterns of similarity in the carving of certain features. A large, open eye is characteristic of this phase occurring in the decoration of the mastabas of Snefru-khaf (G7070), Djaty (G7810), and Iy-nefer and Nefret-kau (G7820). This type of eye is less well-defined as those decorating mastabas in phases two and three, such as Khufu-khaf I (G7140) and Akhethetep and Meretites (G7650). The emphasis upon a large, open eye may derive from the statuary of Khafra and, more particularly, Menkaura, who is shown with «bulging» eyes.⁶⁶

Another characteristic feature of phase four is the broad, almost rectangular treatment of the shoulders. This appears in the mastabas of Khaemsekhem (G7660), Anonymous (G7750), Snefru-khaf (G7070), and Djaty (G7810). In Khaemsekhem's mastaba (G7660), the emphasis upon the shoulder area is enhanced by the short necks of the tomb owner and his wife. The high placement of the shoulder level and the musculature resemble the alabaster seated statue of Menkaura in the Museum of Fine Arts, Boston (MFA 09.204).⁶⁷

Evidence for the interconnections between royal statuary and relief decoration in phase four is apparent in the articulated musculature of the legs. This occurs primarily on images of the tomb owner but also on subsidiary figures as well. The knees have a distinct cavity behind the kneecap;⁶⁸ while, the structure and musculature of the legs are well defined.⁶⁹ This type of modeling is also apparent on statues of Khafra and, more particularly, Menkaura.⁷⁰ Interestingly, this style or treatment of the leg is also a feature of the decoration in the mastaba of Duaenra (G5110) in the Western Cemetery at Giza, which is dated to Menkaura.⁷¹

⁶⁴ Ibid., p. 164.

⁶⁵ Ibid., p. 162, 249.

⁶⁶ For Menkaura's «bulging eyes», see Reisner, *Mycerinus*, p. 127-128; C. Ziegler, «King Menkaure and a Queen» and «Head of Menkaure» in *Egyptian Art in the Age of the Pyramids* (New York, 1999), p. 269-271 (67), 273-274 (69); C. H. Roehrig, «Head of King Menkaure as a Young Man» in *Egyptian Art in the Age of the Pyramids* (New York, 1999), p. 274-276 (70); Do. Arnold, *When the Pyramids were Built: Egyptian Art of the Old Kingdom* (New York, 1999), p. 64, 66-68, frontispiece, figs. 55, 57.

⁶⁷ Smith, HESPOK, p. 35, 36, pl. 13; W.S. Smith, Ancient Egypt as represented in the Museum of Fine Arts, Boston (Boston, 1960), p. 46, 49, fig. 24.

⁶⁸ A cavity behind the kneecap occurs on figures in the mastabas of Anonymous (G7750), Mindjedef (G7760), Snefru-khaf (G7070), Djaty (G7810), and Iy-nefer and Nefret-kau (G7820).

⁶⁹ Modeling of the legs appears in the mastabas of Duaenhor (G7550), Khaemsekhem (G7660), Anonymous (G7750), Nefermaat (G7060), Djaty (G7810), and Iy-nefer and Nefret-kau (G7820).

⁷⁰ For the articulated musculature of Menkaura's statues, see Smith, *HESPOK*, p. 36; Ziegler, in *Egyptian Art in the Age of the Pyramids*, p. 269-271 (67).

⁷¹ See Reisner, *Giza* I, p. 218 (31), 311; Smith, *HESPOK*, p. 164, 169, n. 1 for the dating of Duaenra's mastaba (G5110) to Menkaura.

In phase five, the use of different materials⁷² in the chapels affected the carving of the relief decoration and its stylistic features, such as the painted plaster over the rock-cut walls in Meresankh III's chapel (G7530sub). This phase is characterized by both low and medium relief. Stylistically, there is a pronounced modeling of the facial features on both main and subsidiary figures. It is characterized by a cavity underneath the eye, a c-shaped depression behind the nose and at the back of the mouth with subtle musculature. The two females on the relief attributed to mastaba G7350, which is now in the Egyptian Museum, Cairo (JE 54939),⁷³ exhibit this modeling in addition to images of Hetepheres II and Meresankh III in the rock-cut chapel of Meresankh III (G7530sub).⁷⁴ The two females on the relief may also be Hetepheres II and Meresankh III.⁷⁵ In royal statuary, Menkaura is shown with «drooping lower lids»⁷⁶ with a depression below as well as fleshy checks with a pronounced fold adjacent to the nostrils.⁷⁷ In this respect, there is a direct correlation between the style of the relief decoration with its emphasis on the modeling of the facial features and the evidence from royal statuary.

V. GIS CEMETERY: STYLE

The relief decoration in the mastabas of Kaemnefert (GIIS) and Khufudjedef (GIIS) in the GIS Cemetery relates to a discussion of the development of art during the late Fourth and early Fifth Dynasties. These two mastabas are carved in a medium style of relief; however, they are stylistically different from the Eastern Cemetery. ⁷⁸ In Khufudjedef's mastaba (GIIIS), the tomb owner's facial features are

⁷² These materials include: fine quality limestone in the mastabas of G7350 assigned to Hetepheres II, Anonymous (G7450), and Anonymous (G7560); plastered mudbrick in Anonymous mastaba (G7670); and nummulitic limestone in the rock-cut chapel of Meresankh III (G7530sub). Fine quality limestone is also used for the façade and entrance thicknesses of Meresankh III's rock-cut chapel (G7530sub). The chapel of Anonymous mastaba (G7690) is destroyed. For mastaba G7350, see Smith, *HESPOK*, p. 164-165. For Anonymous mastaba (G7450), P. Der Manuelian, personal communication. For the Anonymous mastabas (G7560, G7670, G7690), see Reisner, *Giza* II (unpub.), App. B, 116, 120, 122. For the rock-cut chapel of Meresankh III (G7530sub), see Dunham and Simpson, *Mersyankh* III, p. 1, 8, pls. Ic, IIa, III-XII. XX.

⁷³ «Relief der Königin Hetep-heres II» in *Nofret-Die Schöne*, p. 60 (23).

⁷⁴ The modeling of facial features occurs on Hetepheres II and Meresankh III as well as minor figures on the east wall in the entrance chamber.

⁷⁵ For a discussion of the identity of these two females, see Jánosi, ZÄS 123 (1996), p. 56-57, fig. 5.

 $^{^{76}}$ See Ziegler in Egyptian Art in the Age of the Pyramids, p. 273 (69) for a discussion of the «drooping lower lids.»

⁷⁷ For the fleshy cheeks with folds beside the nostrils, see *ibid.*, p. 273 (69); Do. Arnold, *When the Pyramids were Built*, p. 64, 66-68, frontispiece, figs. 55, 57.

⁷⁸ Smith remarked that Khufudjedef's reliefs are carved in a medium style «tending toward the high, bold style». See Smith, *HESPOK*, p. 164. Also, there is a lack of detailed decoration of Khufudjedef's reliefs.

quite distinct from the figures of phases two through four. There is an emphasis upon a boldly rimmed eye, a strong diagonal for the jawline, and a short chin and neck. Similar features appear in the rock-cut chapel of Meresankh III (G7530sub)⁷⁹ and also on the statue of Kai with inlaid eyes in the Louvre (N 117), which may date to the early Fifth Dynasty.⁸⁰ In this respect, the decoration in Khufudjedef's mastaba (GIIS) may date to the early Fifth Dynasty in conjunction with the process of expansion of the GIS Cemetery into the Fifth Dynasty.

A comparative study of the iconography, style, and technical features in the Eastern and GIS cemeteries during the Fourth Dynasty and into the early Fifth based on the different architectural phases creates many patterns of similarity and difference. These patterns are a result of changes or influences both in ideology as well as developments in artistic and technical features. In this respect, the decorative programs in the mastabas and rock-cut chapels reflect not only an overall evolution in ideas but also the artisans' approach to relief decoration. Through the expansion of these two cemeteries over time, the presence of different groups or individual artisans in addition to the influence of pre-existing mastabas affected the development of art. Developments in other cemeteries, such as «palace façade» decoration in the Central Field, were also assimilated by the artisans in the Eastern and GIS cemeteries illustrating how ideas were created and then adopted throughout the Giza Necropolis. Finally, the stylistic and technical innovations that characterize the royal reliefs and statuary of Khufu, Khafra, and Menkaura are reflected in the decoration of the mastabas and rock-cut chapels. The exchange of ideas and techniques between the artisans of the royal pyramid complexes and those working on the surrounding cemeteries created a dynamic environment in which artistic change was possible. Through this methodology, it is possible to trace the development of art and those factors that influenced its creation during the Fourth Dynasty.

⁷⁹ Kawab and Khemetnu the younger in the entrance chamber and west chamber of G7530sub respectively also have full lips and a short chin similar to Khufudjedef.

⁸⁰ For the statue of Kai, see C. Ziegler, «Kai Seated» in Egyptian Art in the Age of the Pyramids (New York, 1999), p. 362-364 (124).