

A TRIBUTE TO EXCELLENCE

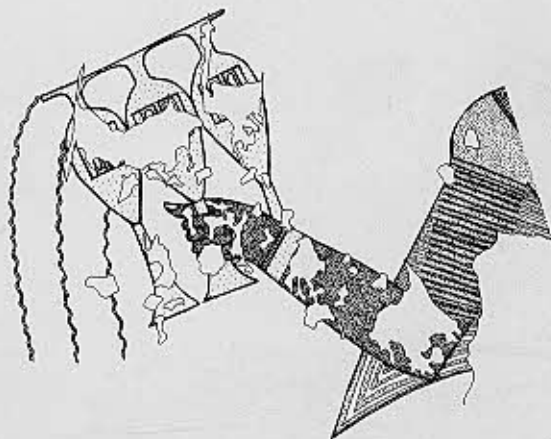
STUDIES OFFERED IN HONOR OF

ERNŐ GAÁL

ULRICH LUFT

LÁSZLÓ TÖRÖK

Edited by Tamás A. Bács



Pyramids on Lepsius, De Morgan and Later Maps

NABIL SWELIM

Cairo

Above all, professors Ernő Gaal and Ulrich Luft are among the best of my friends. We have unforgettable memories with our wives Alice, Éva and the late Doreen. With professor László Török I am honoured to contribute to their *Festschrift*.

Hopefully this study will be a useful tool for pyramid research. One will be able to go directly to the reference map bypassing a bulk of map catalogues, which are not always available.

On the plans of Lepsius

In the monumental work of Lepsius, *Denkmaeler aus Agypten und Athiopien* Vols. 1, are a series of situation plans. On them, pyramids are and given numbers in roman figures and other monuments in Arabic numerals or are unnumbered. The description comes in the text Vol. 1–2. The table presented here gives the information recorded in this work.

PLATE #	PLAN	SITE	TEXT REF.	LEPSIUS #
11	All the plan	Abu Rawash	Vol I, 21–14	I–III
14	All the plan	Giza	Vol I, 26–29	IV–XII
31	Upper part	Giza	Vol I, 121–122	100
32	Upper inset	Zawyet El Aryan	Vol I, 128–129	XIII–XIV
32	Remaining plan	Abu Sir	Vol I, 129–138	XV–XXVIII
33	Right side	North Saqqara	Vol I, 188–196	XXIX–XXXV
33	Left side	South Saqqara	Vol I, 196–198	XXXVI–XXXIX
34	Right side	South Saqqara	Vol I, 198–202	XL–XLVI
34	Left side	North Dahshur	Vol I, 205	XLVII–XLVIII
35	All the plan	Dahshur	Vol I 206–209	XLIX–LVIII
43	Upper part	East Dahshur	Vol I, 209	LIX

43	Lower part	El Lisht	Vol I, 212-216	LX-LXIV
44	Upper part	Meidum	Vol II, 1	LXV
44	Lower part	El Lahun	Vol II, 7-8	LXVI
46-47	All 46; Middle 47	Hawara	Vol II, 24-28	LXVII
51	Upper part	Biyahimu	Vol II, 34-35	Unnumbered

Pyramids corresponding to Lepsius numbers

An update of the identification of the pyramids numbered by Lepsius, are presented in the following table:

I	THE BRICK PYRAMID AT ABU RAWASH.
II	THE PYRAMID OF DJEDEFRA AT ABU RAWASH.
III	THE SUBSIDIARY PYRAMID OF DJEDEFRA AT ABU RAWASH.
IV	THE GREAT PYRAMID OF GIZA.
V	THE NORTH PYRAMID OF A QUEEN? AT GIZA.
VI	THE MIDDLE PYRAMID OF A QUEEN? AT GIZA.
VII	THE SOUTH PYRAMID OF A QUEEN? AT GIZA.
VIII	THE SECOND PYRAMID AT GIZA.
IX	THE THIRD PYRAMID AT GIZA.
X	THE WEST STEP PYRAMID OF A QUEEN AT GIZA.
XI	THE MIDDLE STEP PYRAMID OF A QUEEN AT GIZA.
XII	THE EAST PYRAMID OF A QUEEN AT GIZA.
XIII	THE UNFINISHED PYRAMID AT ZAWYET EL ARYAN NORTH.
XIV	THE LAYER PYRAMID AT ZAWYET EL ARYAN SOUTH.
XVIII	THE PYRAMID OF SAHURA AT ABU SIR.
XX	THE PYRAMID OF NEUSERA AT ABU SIR.
XXI	THE PYRAMID OF NEFERIRKARA AT ABU SIR.
XXIV	THE NORTH SMALL PYRAMID AT ABU SIR OF A QUEEN?
XXV	THE SOUTH SMALL PYRAMID AT ABU SIR OF A QUEEN?
XXVI	THE UNFINISHED PYRAMID OF RANEFEREF AT ABU SIR.
XXIX	THE PYR. OF USERKARA? UNDER A VILLAGE, AT SAQQARA.
XXX	THE PYRAMID OF TETI AT SAQQARA.
XXXI	THE PYRAMID OF USERKAF AT SAQQARA.
XXXII	THE STEP PYRAMID AT SAQQARA.
XXXV	THE PYRAMID OF UNAS AT SAQQARA.
XXXVI	THE PYRAMID OF PEPI I AT SAQQARA.
XXXVII	THE PYRAMID OF DJEDKARA-ISISI AT SAQQARA.
XXXVIII	THE PYRAMID OF A QUEEN OF DJEDKARA AT SAQQARA.
XXXIX	THE PYRAMID OF MERENRA AT SAQQARA.
XL	THE PYRAMID OF KAKARA IBI AT SAQQARA.
XLI	THE PYRAMID OF PEPI II AT SAQQARA.
XLII	THE PYRAMID OF QUEEN OUDJEBTEN AT SAQQARA.
XLIV	THE PYRAMID OF KHINDJER AT SAQQARA.
XLV	DEMOLISHED PYRAMID WEST OF KHINDJER AT SAQQARA
XLVI	UNFINISHED PYRAMID, OF JEQUIER AT SAQQARA.

XLVII	THE PYRAMID OF SENUSERT III AT SAQQARA.
XLIX	THE RED PYRAMID AT DAHSHUR NORTH.
L	THE PYR OF MENKAUHOR? AT DAHSHUR N.
LI	THE WHITE PYRAMID.
LIV	THE BRICK PYR OF AMENEMHAT? AT DAHSHUR N.
LVI	THE BENT PYRAMID AT DAHSHUR SOUTH.
LVII	SUBSIDIARY OF THE BENT PYRAMID AT DAHSHUR S.
LVIII	THE BLACK, PYRAMID AT DAHSHUR S.
LIX	THE NORTH PYRAMID OF MAZGHUNA ¹
LX	THE PYRAMID OF AMENEMHAT I AT LISHT.
LXI	THE PYRAMID OF SENUSERT I AT LISHT.
LXV	THE PYRAMID OF MEIDUM.
LXVI	THE PYRAMID AT EL LAHUN.
LXVII	THE PYRAMID AT HAWARA.

Lepsius numbers mistaken for pyramids

At the time of Lepsius 20 monuments out of 67 were mistakenly given pyramid numbers. They are listed in the following table according to the present identification:

<i>Number</i>	<i>IDENTIFICATION</i>
XV	THE BENBEN OF THE SUN TEMPLE OF NEUSERRE. <i>PM III</i> ² 1 315, 360
XVI	UNEXCAVATED OBJECT. <i>PM III</i> 1, 319, 360
XVII	THE SUN TEMPLE OF USERKAF. <i>PM III</i> 1 340, 360
XIX	THE MASTABA OF PTAHSEHSES AT ABU SIR.
XXII	UNEXCAVATED MASTABA ACCORDING TO VERNER IN A PERSONAL LETTER
XXIII	UNEXCAVATED MASTABA ACCORDING TO VERNER IN A PERSONAL LETTER
XXVII	A COMPLEX OF LATE PERIOD SHAFTS. <i>ZÄS</i> 109, 163
XXVIII	A SAND HILL WITH REMAINS OF MUD BRICK STRUCTURES. <i>ZÄS</i> 108, 75
XXXIII	THE HOUSE OF THE NORTH IN THE COMPLEX OF NETJERYKHET. <i>PM III</i> 2, 413
XXXIV	THE HOUSE OF THE SOUTH IN THE COMPLEX OF NETJERYKHET. <i>op.cit.</i> , 412
XLIII	MASTABE FAROUN, THE TOMB OF SHEPSESKAF.
XLVIII	THE EASTERNMOST OF THE SOUTH MASTABAS IN THE PYRAMID COMPLEX OF SENUSERT III AT DAHSHUR. <i>op.cit.</i> 885
LII	NORTH STRUCTURE, FLANKING THE BEGINNING OF THE CAUSEWAY OF THE PYRAMID COMPLEX OF AMENEMHAT II AT DAHSHUR.

¹ *MDAIK* 54, 330

- LIII SOUTH STRUCTURE, FLANKING THE BEGINNING OF THE CAUSEWAY OF THE PYRAMID COMPLEX OF AMENEMHAT II AT DAHSHUR.
- LV THE TOMB OF SIESI, AT DAHSHUR. *op.cit.*, 898
- LXII THE 'GRAND MASTABS DU NORD' AT LISHT. *op.cit.* IV, 84
- LXIII THE TOMB OF SENUSERTANKH AT LISHT.
- LXIV THE MASTABA WEST OF SENUSERTANKH OF HEPY.
- 100 THE SARCOPHAGUS SHAPE (?) TOMB OF KHENTKAUS, AT GIZA.
- Biyahimu TWO PEDESTALS OF AMENEMHAT III AT EL FAYUM.

On the maps of De Morgan

On his *Carte de la Necropole Memphite*, J. De Morgan recorded some of the pyramids by identifying them on location. His *Plan Synoptique* includes 11 parts published separately in his plates. Pyramids are identified. But there are however, two pyramids, which, as far as I know, do not exist on plate 11; there are also the houses of the north and south at the Step Pyramid Complex on plate 10 which he thought were pyramids.

Pyramids on pl. 1

The Bent pyramid of Snofru at Dahshur south.
The subsidiary (?) pyramid of Snofru at Dahshur south.

Pyramids on pl. 2

The White pyramid of Amenemhat II at Dahshur north.
The Black (brick) pyramid of Amenemhat III at Dahshur south.

Pyramids on pl. 3

The Red pyramid of Snofru at Dahshur north.

Pyramids on pl. 4

The brick pyramid of Senusert III at Dahshur north.

Pyramids on pl. 5

The pyramid of Pepi II, at Saqqara south is only showing the west part.

Pyramids on pl. 6

The pyramid of Pepi II at Saqqara south.
The pyramid of queen Udjebten at Saqqara south.
The brick pyramid of Khindjer at Saqqara south.
The unfinished brick pyramid at Saqqara south (Lepsius XLVI).
The demolished brick pyramid at Saqqara south (Lepsius XLIV).
Mastabet Faroun, the tomb of Shepseskaf at Saqqara south.

No pyramids on pl. 7

The south part of Gisir el Modir

Pyramids on pl. 8

The pyramid of Djedkara at Saqqara south.

The pyramid of a queen of Djedkara at Saqqara south.

The pyramid of Pepi I at Saqqara south.

The pyramid of Merenra at Saqqara south

A square topographic feature south of Merenra, which is not identified.

Blocks flanking the beginning of the causeway of Djedkara.

No pyramids on plate 9

The north part of Gisir el Modir,

The southwest corner of the second enclosure is shown.

The Serapeum.

Pyramids on plate 10

The step pyramid (layer pyramid) of Netjerykhet at middle Saqqara.

The pyramid of Userkaf at middle Saqqara.

The pyramid of Unas at middle Saqqara.

The pyramid of Teti at middle Saqqara.

The pyramid of Userkara (?) under the village at middle Saqqara.

Pyramids on pl. 11²

The pyramid of Sahura at Abu Sir.

The pyramid of Neferirkara at Abu Sir.

The pyramid of Nyusera at Abu Sir.

The pyramid of Neferefre at Abu Sir.

The small north pyramid at Abu Sir.

The small south pyramid at Abu Sir.

The sun temple of Userkaf at Abu Sir

The sun temple of Nyusera at Abu Gurab

2 There is a misidentified pyramid south east of Ptahshepses, numbered XXVIII by Lepsius, see

A list of pyramid sites

<i>SITE</i>	<i>PYRAMID</i>	<i>PYR-LIKE</i>	<i>TOTALS</i>
FAQUS?	2 ³	—	2
BENHA?	1	—	1
ABU RAWASH	3	1	4
GIZA	13	2	15
ZAWYET EL ARYAN	2	—	2
ABU GURAB	—	1	1
ABU SIR	11	1	12
SAQQARA	39	1	40
DAISHUR	13	—	13
HELWAN	—	1	1
MAZGHUNA	2	—	2
LISHT	12	—	12
MEIDUM	2	—	2
SEILA	1	—	1
BIYAHIMU	—	2	2
EL LAHUN	2	—	2
HAWARA	2	—	2
ZAWYET EL AMWAT	1	—	1
ARAB EL AMAYEM	—	1	1
ABYDOS	1	—	1
NAG AHMED KHALIFA	1	—	1
EL ZAWAYDA	1	4	5
ED DAIR EL BAHARI	—	1	1
NAG EL MIAMARIYA	1	—	1
KOM EL AHMAR	—	1	1
EL GHIMIMIYA	1	—	1
ELEPHANTINE	1	—	1
UNKNOWN SITES	6	4	10
<i>TOTALS</i>	<i>118</i>	<i>20</i>	<i>138</i>

On the Survey of Egypt maps

The following maps of the Survey of Egypt are of the scale of 1:25 000 and 1:100 000 consequently only sites appear. The monuments themselves do not appear with any detail and some are not mentioned on the map. The importance of these maps however is in presenting the sites and their geographical and topographical relationship to one another and to the neighbouring villages. For locating the site of a monument, which is isolated, these maps will be very helpful.

3 Assumed pyramids by evidence of pyramidions found in that site.

The site of Facus

Is on the map of Egypt (1: 100 000) ISMAILIYA sheet 30/30 & 31/40.

The site of Abu Rawash, Athribis

Is on the map of Egypt (1: 100 000) CAIRO sheet 30/31 & 00/00.

The site of Giza to Lisht, Wadi Garawi

Is on the map of Egypt (1: 100 000) HELWAN sheet 29/30 & 30/00.

The site of Biyahimu, Hawara, El Lahun

Is on the map of Egypt (1: 100 000) FAIUM sheet 29/30 & 00/20.

The site of Seila, Meidum

Is on the map of Egypt (1: 25 000) EL RODA sheet 74/615 of 1971.

Is on the map of Egypt (1: 100 000) BANI SWEIF sheet 29,00/31,00 of 1956.

The site of Zawyet el Maiyteen

Is on the map of Egypt (1: 25 000) EL MINYA portions of sheets 59/585 and 59/600 of 1953

Is on the map of Egypt (1: 100 000) EL MINYA sheet 150, of 1956.

The site of Arab El Amayem, Dara

Is on the map of Egypt (1: 100 000) MANFALUT portions of sheets 48/54 and 48/60 of 1932.

The site of Abydos and Nag Ahmed Khalifa

Is on the map of Egypt (1: 25 000) ABU SHUSHA portion of sheets 38/705 and 38/690 of 1982.

Is on the map of Egypt (1: 100 000) NAG HAMMADI portions of sheets 36/66 & 36/72 of 1938.

The site of Nagada or El Zawayda

Is on the map of Egypt (1: 25 000) QIFT portions of sheets 36/780 and 36/795 of 1954.

Is on the map of Egypt (1: 100 000) QENA sheet 36/72 & 36/78.

Deir El Bahari

Is on the map of Egypt (1: 100 000) LUXOR sheet 32/72 & 32/78.

El Miamaria; El Ghenimiya

Is on the map of Egypt (1: 25 000) EL SIBAIYA portions of sheets 27/780 and 27/765 of 1987 (El Kula).

Is on the map of Egypt (1: 25 000) IDFU sheet 25/795 of 1957 (El Ghenimiya).

Is on the map of Egypt (1: 100 000) IDFU portions of sheets 24/72 and 24/78 of 1943.

Elephantine

Is on the map of Egypt (1: 25 000) ASWAN parts of sheets 15/795 and 15/810 of 1988.

Is on the map of Egypt (1: 100 000) ASWAN sheet 12/78 of 1940.

On the aerial photography maps 1:5000

These important maps are published by the Ministry of Housing and sold by the Survey of Egypt at Urman, Giza. They are described as:

Ministere De L'Habitat et de la Reconstruction.

Ellipsoide International-Hayford.

Projection UTM Fuseau 36.

Quadrillage Semi-Kilometrique. Equidistance des Courbes, 1 Metre.

Photographies Aeriennes 1:15000 de Avril 1977.

They are very useful for the study of the details of the topography of the archaeological sites and cover all the pyramid sites between Abu Rawash and Mazghuna. Unfortunately the survey does not extend as far as the sites of the pyramids of Lisht, Meidum, El Lahun, and Hawara. Each map represents an area of 2.5 X 3.5 kilometre; the total pyramids area covered by this survey is within a North South axis of a distance of 35.0 km from #14 to #27 and an East West axis of a distance of 17.5 km from # D to # H.⁴

4 Map le Caire N 26 of Sad el Kafara east of the Nile is not considered in the area just mentioned.

Sheets covering pyramid monuments

	D	E	F	G	H	N	
14		*					14
15	*	*					15
16							16
17			*				17
18			*				18
19			*	*			19
21					*		21
22					*		22
23					*		23
24					*		24
25					*		25
26					*	*	26
27					*		27
	D	E	F	G	H	N	

Monuments on Le Caire E 14

El Deir, the square brick massif, Abu Rawash.

Monuments on Le Caire E 15

The brick pyramid at Abu Rawash (Lepsius 1).

Monuments on Le Caire D 15

The pyramid of Djedefra at Abu Rawash.

The subsidiary pyramid of Djedefra at Abu Rawash.

Monuments on Le Caire F 17

The Great Pyramid of Khufu at Giza.

The subsidiary (?) Pyramid SE of Khufu G1d discovered in Oct. 1992.

The north pyramid of a queen (?) of Khufu at Giza.

The middle pyramid of a queen (?) of Khufu at Giza.

The south pyramid of a queen (?) of Khufu at Giza.

The subsidiary pyramid of Khufu, newly discovered.

The abandoned pyramid project, Reisner's G1x at Giza.

The abandoned pyramid project, Petrie's trial passages at Giza.

The abandoned pyramid project (?) Junker's nebenpyramide at Giza.

The pyramid of Khafra at Giza.

The sarcophagus shape (?) tomb of Khentkaus, at Giza.

Monuments on Le Caire F 18

- The subsidiary (?) pyramid of Khafra at Giza.
- The pyramid of Menkaura at Giza.
- The east pyramid. Of a queen (?) south of Menkaura.
- The middle step pyramid. Of a queen south west of Menkaura.
- The west step pyramid. Of a queen west south west of Menkaura.
- Heet el Ghurab.

Monuments on Le Caire F 19

- The unfinished pyramid of Nebkara at Zawyet el Aryan north.

Monuments on Le Caire G 19

- The layer pyramid at Zawyet el Aryan south.

Monuments on Le Caire H 21

- The pyramid of Sahura at Abu Sir.
- The subsidiary pyramid of Sahura at Abu Sir.
- The pyramid of Neferirkara at Abu Sir.
- The pyramid of Shepseskara (?) on aerial photo of Abu Sir.
- The unfinished pyramid of Raneferet at Abu Sir.
- The pyramid of Neusera at Abu Sir.
- The subsidiary pyramid of Neusera at Abu Sir.
- The pyramid of queen Khenkaus at Abu Sir.
- The north small pyramid at Abu Sir.
- The south small pyramid at Abu Sir.
- The benben in the sun temple of Userkaf at Abu Sir.
- The benben in the sun temple of Neusera at Abu Ghurab.

Monuments on Le Caire H 22

- The Step Pyramid (layer pyr.) of Netjerykhet at Saqqara.
- The unfinished layer pyramid of Sekhemkhet at Saqqara.
- The pyramid of Userkaf at Saqqara.
- The subsidiary (?) pyramid of Userkaf at Saqqara.
- The pyramid of a queen of Userkaf at Saqqara.
- The pyramid of Unas at Saqqara.
- The subsidiary pyramid of Unas at Saqqara.
- The pyramid of Teti at Saqqara.
- The subsidiary pyramid of Teti at Saqqara.
- The pyramid of queen Khuit at Saqqara.
- The subsidiary pyramid (?) of queen Khuit at Saqqara.
- The pyramid of queen Iput I at Saqqara.
- The subsidiary pyramid (?) of queen Iput I at Saqqara.
- The pyramid of Userkara (?) under the village at Saqqara.

Monuments on Le Caire H 23

- The pyramid of Djedkara at Saqqara.
- The subsidiary pyramid of Djedkara at Saqqara.
- The pyramid of a queen of Djedkara at Saqqara.
- The subsidiary pyramid of a queen of Djedkara at Saqqara.
- The pyramid of Pepi I at Saqqara.
- The subsidiary pyramid of Pepi I at Saqqara.
- The east pyramid of queen Noubounef of Pepi I at Saqqara.
- The middle pyramid of a queen of Pepi I at Saqqara.
- The occidental pyramid of a queen of Pepi I at Saqqara.
- The south pyramid of queen Meritites II of Pepi I at Saqqara.
- The fifth pyramid of a queen of Pepi I at Saqqara.
- The pyramid of Merenra at Saqqara.
- The subsidiary pyramid of Merenra at Saqqara.
- The pyramid of a queen mother; of Userkara (?)
(The causeway and valley temple of the pyramid of Pepi II.)

Monuments on Le Caire H 24⁵

- The pyramid of Pepi II at Saqqara.
- The subsidiary pyramid of Pepi II at Saqqara.
- The pyramid of queen Oudjebten at Saqqara.
- The subsidiary pyramid of queen Oudjebten at Saqqara.
- The pyramid of queen Neith at Saqqara.
- The subsidiary pyramid of queen Neith at Saqqara.
- The pyramid of queen Iput II at Saqqara.
- The subsidiary pyramid of queen Iput II at Saqqara.
- The pyramid of Kakara Ibi at Saqqara.
- The brick pyramid of Senusert III at Dahshur.
- The brick pyramid of Khindjer at Saqqara.
- The brick pyramid of the queen of Khindjer at Saqqara.
- The unfinished brick pyramid (Lepsius XLVI) at Saqqara.
- The demolished brick pyramid (Lepsius XLIV) at Saqqara.
- Mastabet Faroun, the tomb of Shepseskaf at Saqqara.

Monuments on Le Caire H 25

- The Red Pyramid of Snofru at Dahshur north.
- The pyramid of Menkauhor (?) at Dahshur north, (Lepsius I).
- The White Pyramid of Amenemhat II at Dahshur.
- The brick pyramid of Amenemhat (?) (Lepsius LIV).

5 The Baharia Oasis railway line separates south Saqqara from north Dahshur

Monuments on Le Caire H 26

The Bent Pyramid of Snofru at Dahshur south.

The subsidiary (?) pyramid of Snofru at Dahshur south.

The black, (brick) pyramid of Amenemhat III at Dahshur.

The brick pyramid of Ameny-qemau at Dahshur.

The brick pyramid (?) north of Ameny-qemau at Dahshur.

The brick pyramid (?) north west of Ameny-qemau at Dahshur.

Monuments on Le Caire H 27

The stone pyramid of north Mazghuna.

The brick pyramid of south Mazghuna.

Monuments on Le Caire N 26

Sad el Kafara, the dam of Wadi Garawi, at Wadi Abu Milisat, Helwan.