PYRAMID SCIENCE

ON ALMOST EVERY CONTINENT EXIST
PYRAMIDS AND PYRAMIDS-LIKE MONUMENTS

At their fields, specialists investigate them:
geologically, archaeologically and architecturally

At the academy, specialists research their:
terms, properties, concepts and local scenarios

THESE SUBJECTS ARE THE FUNDAMENTALS OF

THE PYRAMID STATUS

TERMS

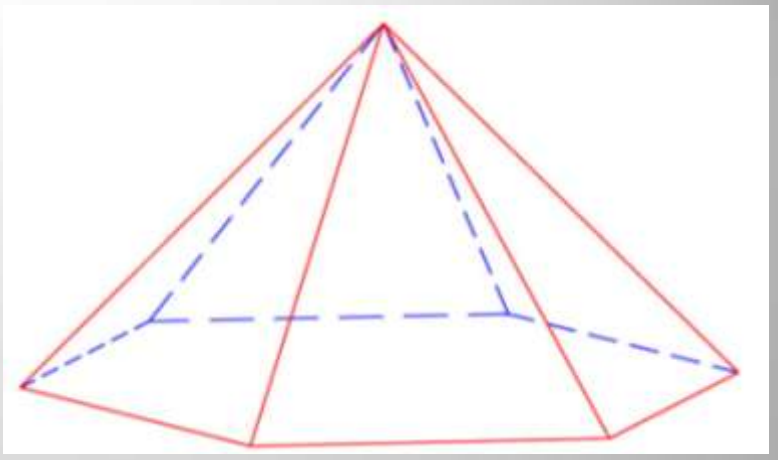
- Geometrical
- Linguistic
- Components
- Local - Descriptive

GEOMETRICAL

Πνραμίς

Pyramis

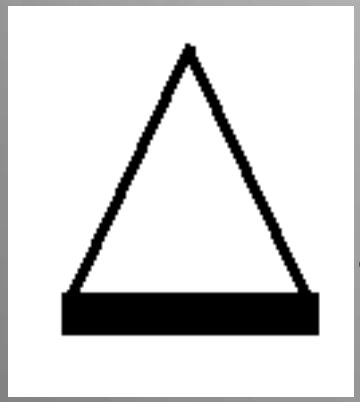
Pyramid



These words in Greek, Latin and modern languages

Mean: a polygonal base and sloping sides meeting at an apex

In other words a geometrical shape



In the Ancient Egyptian Writing the hieroglyph is "MR"
a 2 dimensional form of the classical shape of a pyramid

LINGUISTIC

IN OTHER LANGUAGES

the geometrical meaning in some languages is absent

In Arabic:
the word is *haram* هرم it means "*very old* " from" لسان العرب"

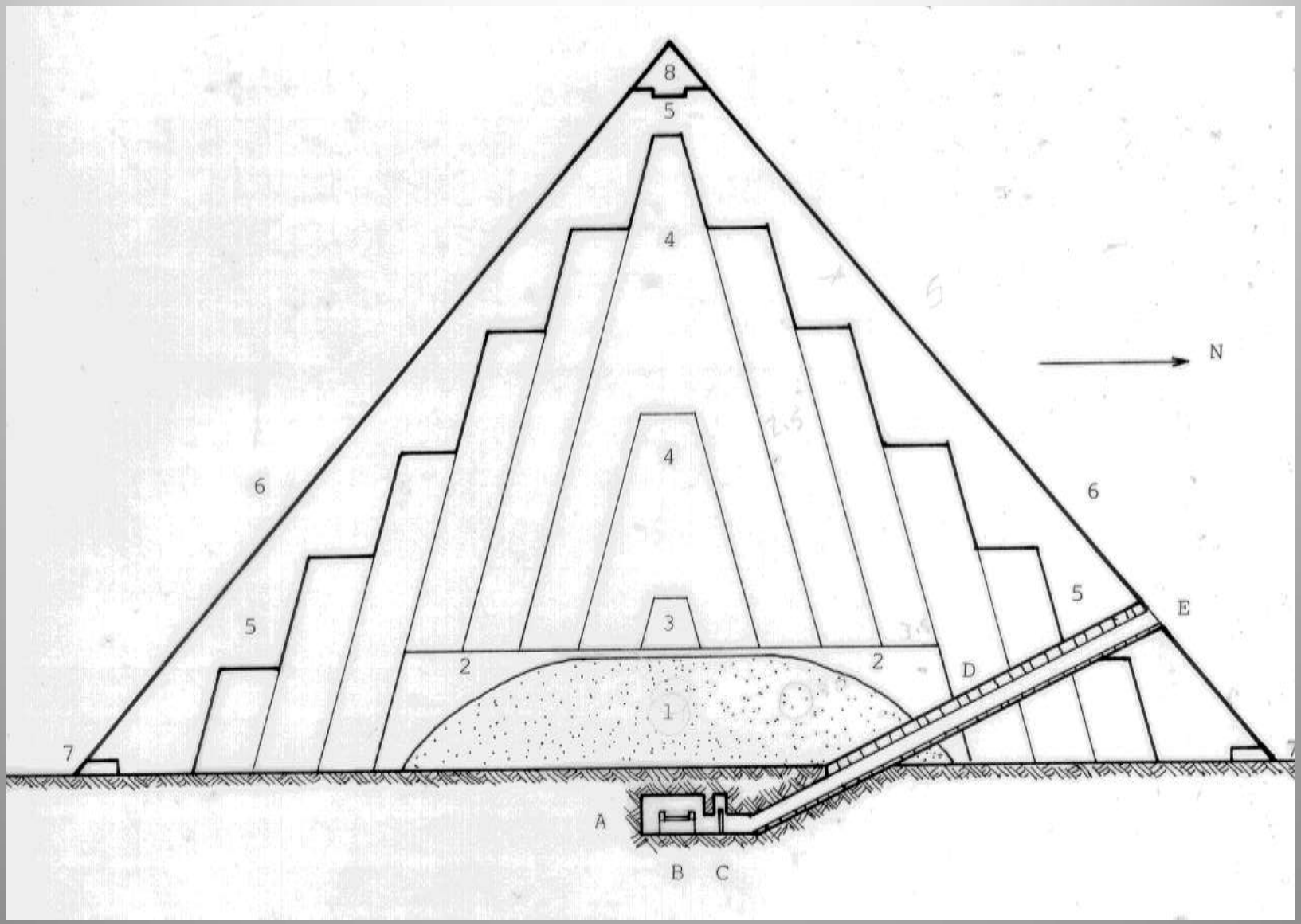
In Mexico:
"*las piramides*" which is Latin; they are are called "*huaca*" also meaning temple

In Chinese:

Jin' zi ta (jīnzìtǎ) , means "*a tower with golden symbols*"

Jiao zhui, means *"prism"* which could be geometrical, but the literal translation is "a horn for drilling the ground"

COMPONENTS



LOCAL - DESCRIPTIVE


RED PYRAMID


USERKAF


BLACK PYRAMID

PROPERTIES

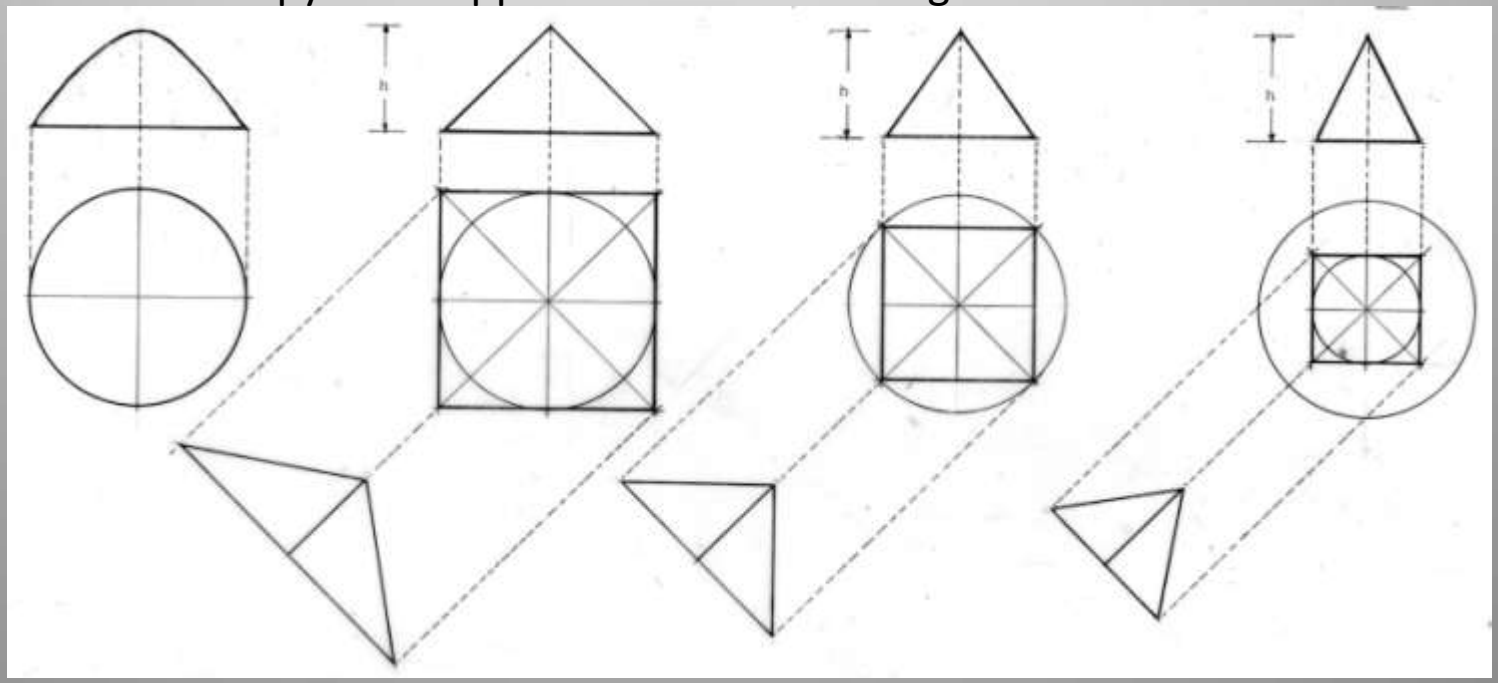
PYRAMIDS FROM TUMULI
CLASSICAL LIMITS OF PYRAMIDS
BEYOND LIMITS BUT ACCEPTED AS PYRAMIDS
PYRAMID-LIKE MONUMENTS
TOWERS AND MOUNDS

PROPERTIES, PYRAMIDS fromTUMULI

CLASSICAL SCOPE: BASE, HEIGHT, AND THE EXCESSIVE

The pyramid base contains the circle of the mound (Red pyramid)
The circle of the mound contains the pyramid base (Khafra pyramid)
In these cases the height of a pyramid is determined by the angle of repose of the mound
A relationship between the base length or diagonal and the height = < ½ side or diagonal
But will exceeded in height, with smaller pyramids the diagonal = > height
More narrowing of the base and increasing of the height, a pyramid becomes a TOWER
Diminishing corners with a circular base, a pyramid becomes a MOUND

The pyramid appears narrow along the axis

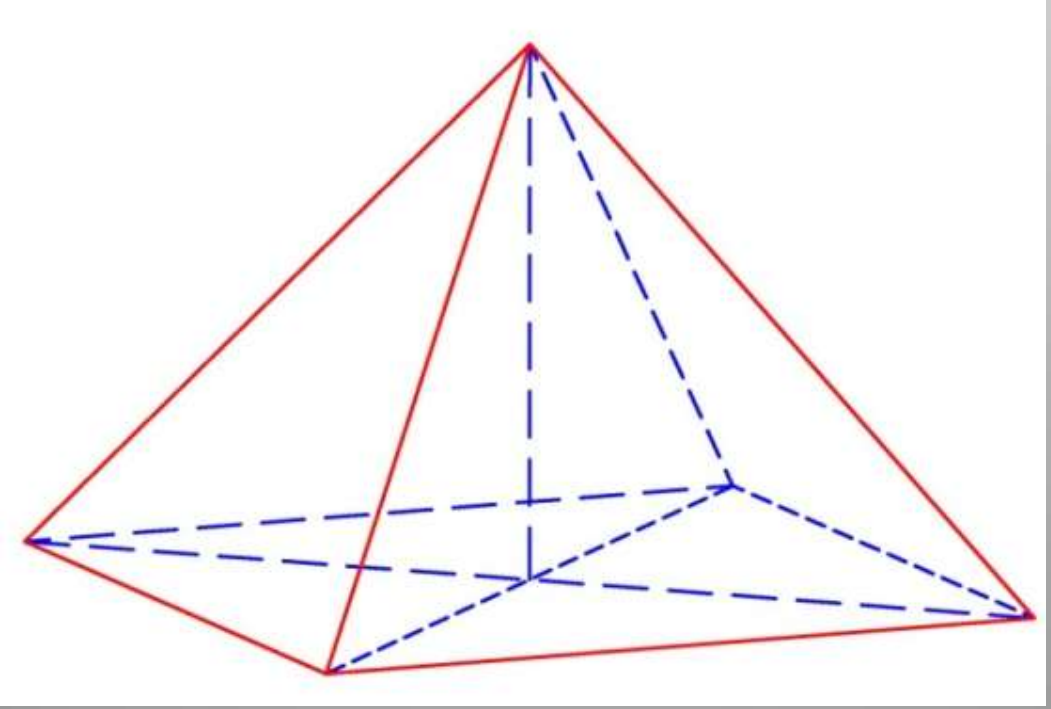


The pyramid appears broad along the diagonal

PROPERTIES CLASSICAL

THE CLASSICAL SHAPE OF A PYRAMID IS MADE UP OF 11 STRAIGHT LINES:

4 straight lines at the **base**, **equal in length**
4 straight lines at the **corners**, **equal in length**
2 straight lines, **diagonals** **of the base, equal in length**
1 straight line from the **center of the base to the apex**



PERFECTION

- Level base
- Plane sides
- Sharp corners
- Pin point apex

The pyramidions of Amenemhat III and Khendjer
at the apex of their pyramids their perfection extended all the way to the base

PROPERTIES CLASSICAL

ANCIENT AND MODERN, HEIGHT BY THE ANGLE OF REPOSE

(Height = < ½ the side or diagonal of the base)

Khufu

Khafra

Unknown Soldier and Sadat

Memphis Tennessee

Louvre

PROPERTIES CLASSICAL

THE HEIGHT EXCEEDS THE ANGLE OF REPOSE

(height = < base diagonal)

Dier el Medina

19th Dynasty BC 1300

Rome

1st centaury BC

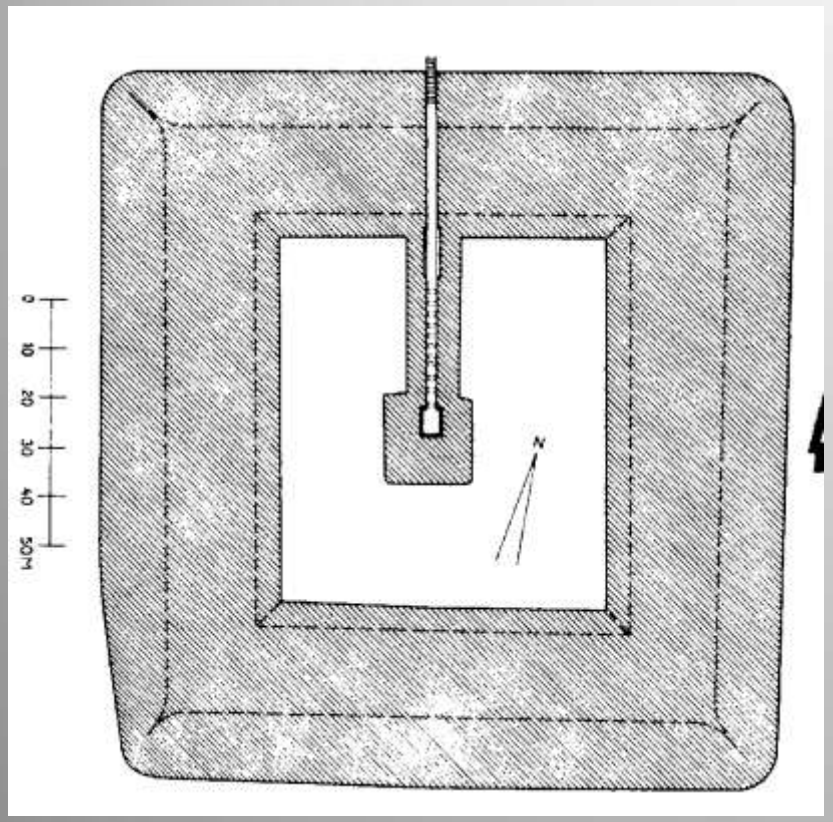
Richmond Virginia

Memorial of the civil war

ACCEPTED EXCESSION

Sharp corners
Square base
Straight corners

Rounded corners but short of being mounds



The truncated pyramid of king Khuwi at Dara

BEYOND LIMITS BUT ACCEPTABLE

The pyramid of the magician at Uxmal

BEYOND LIMITS BUT ACCEPTABLE

The base is rectangular not square

Step pyramid at Saqqara

Geological pyramid hill Visočica

Temple of inscriptions at Palenque

BEYOND LIMITS BUT ACCEPTABLE

The corner lines are broken up into steps

Pyramid of the niches at El Tajín

Phase E2 at Meidum

BEYOND LIMITS BUT ACCEPTABLE

Step Pyramids

The corner lines are showing a double slope

The Bent Pyramid at Dahshur

PYRAMID-LIKE MONUMENTS

Ziggurats of Mesopotamia

PYRAMID-LIKE MONUMENTS

BEYOND LIMITS IN SHAPE **The base is circular – no corners – no flat sides:** Mound, Tumuli, Stupas and Barrows

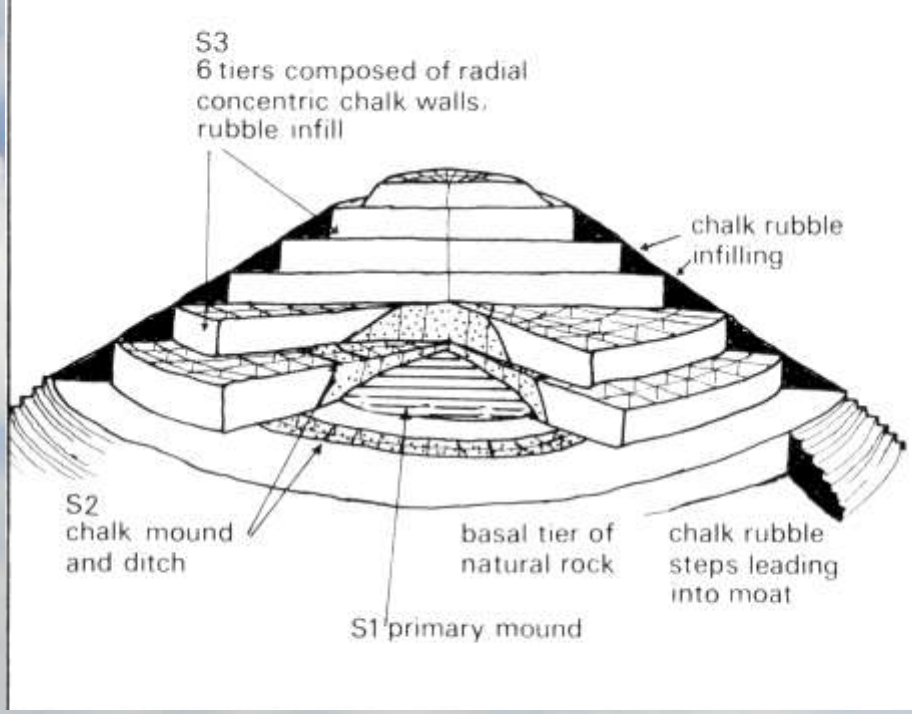
Tumulus *Grossmugl* in Austria

Stupa *Mankiala* in India

PYRAMID-LIKE MONUMENTS

Silbury Hill
Erroneously:
THE WHITE PYRAMD

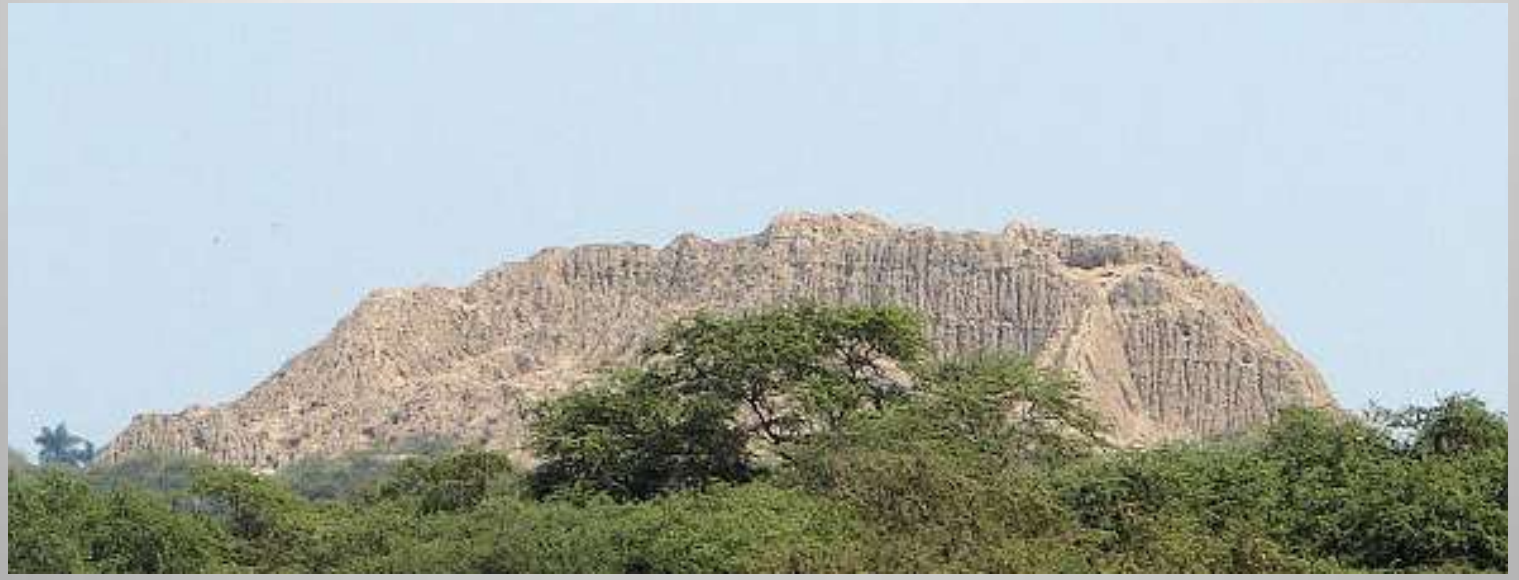
By John Cowie



After Lionel Sims UEL

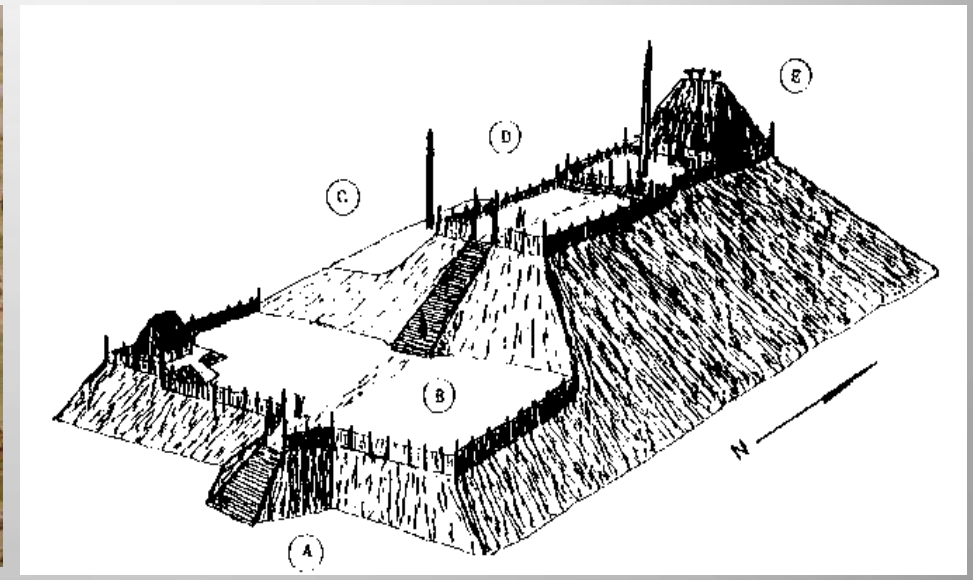
PYRAMID-LIKE MONUMENTS

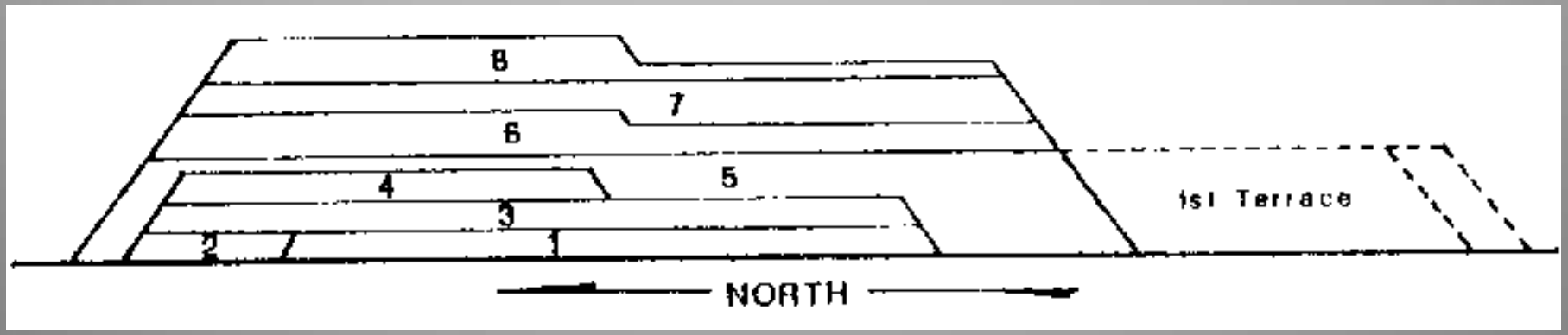
Tucume structures of the valley of Lambayeque Peru



PYRAMID-LIKE MONUMENTS

Cahokia mounds A.D. 1200





EVERYWHERE CONICAL HILLS

Napoli, Mount Pendolo

Nubia

Baharia Oases western desert

NEITHER NOR

IS THIS A PYRAMID?

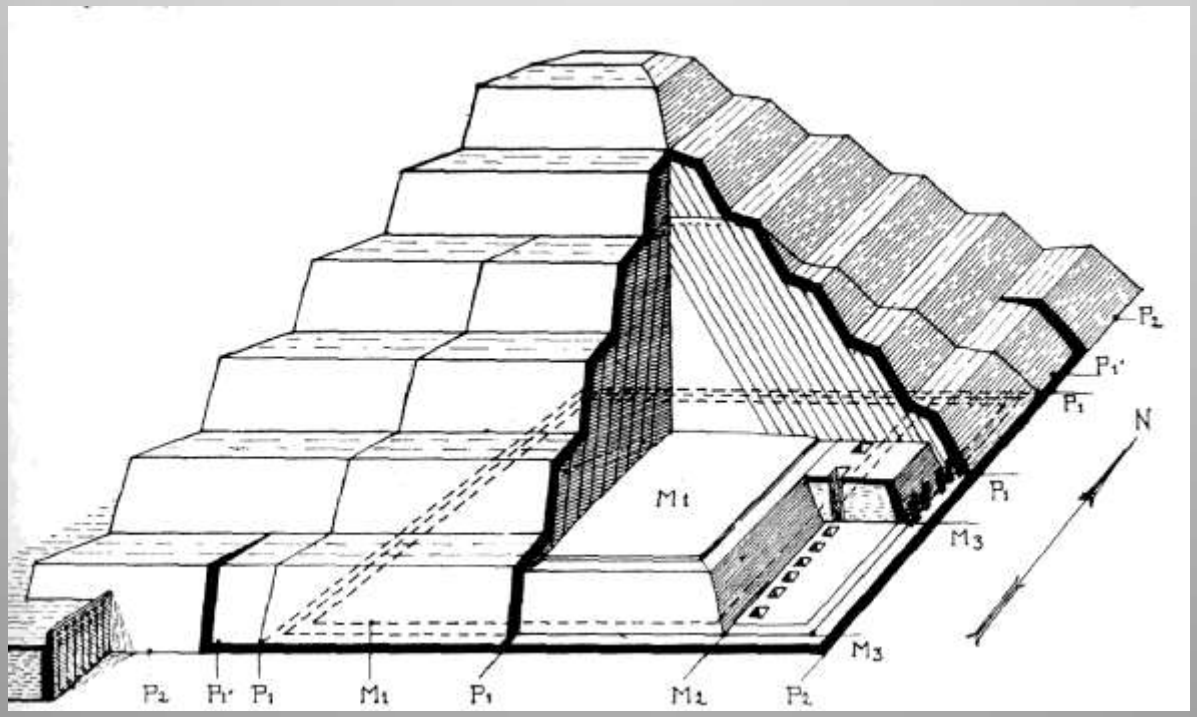
No this is a TOWER
in San Francisco

No COMMENT
In Phoenix Arizona

HISTORICAL
ARCHTECTURAL
RELIGIOUS

HISTORICAL

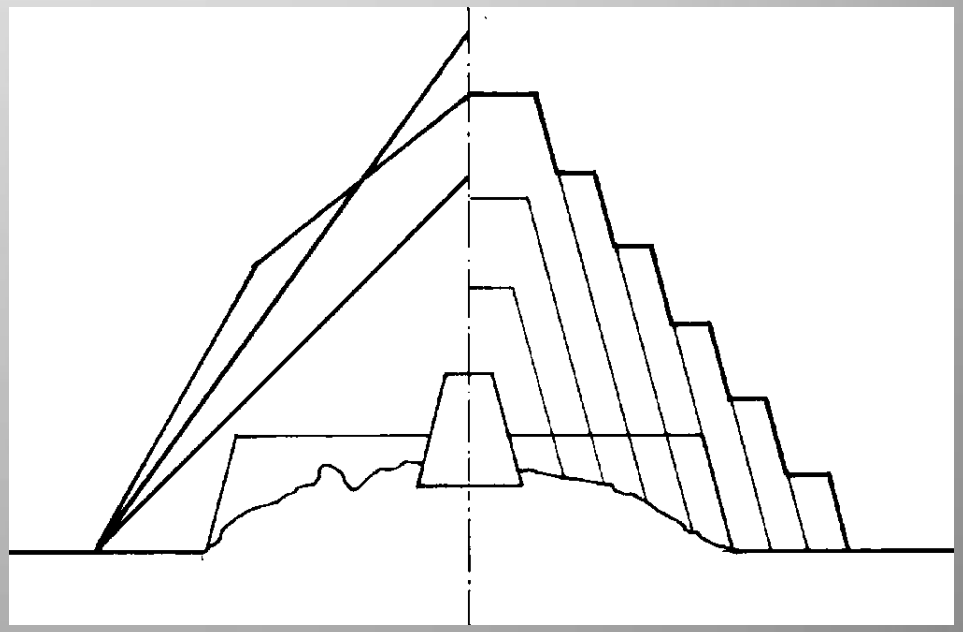
SQUARE TO RECTANGULAR MASTABA; 4 TO 6 STEP PYRAMID; ACTIVE SERVICE, NEGLECT, DESTRUCTION, DISCOVERY and RESTORATION



The Step pyramid at Saqqara (after J-Ph. Laue 1962)

ARCHTECTURAL RECONSTRUCTION POSSIBILITIES OF A RUINED PYRAMID

Classical (2 options), bent or stepped



The rock knoll of the Brick pyramid (Lepsius 1) at Abu Rawash

RELIGIOUS

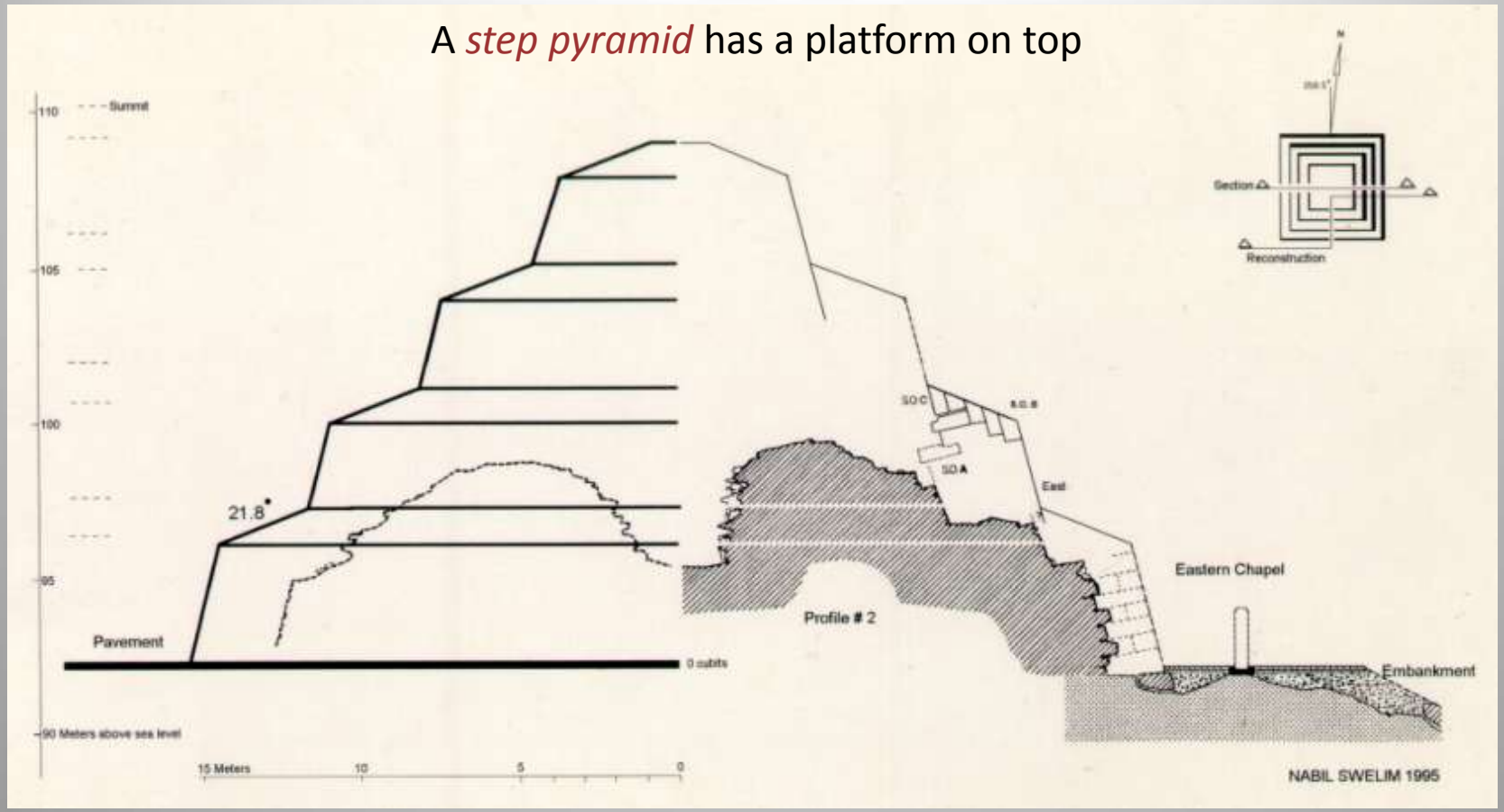
North

THE MSP SEILA OPENS UP A NEW ERA IN PYRAMID ASTRAL CULTS

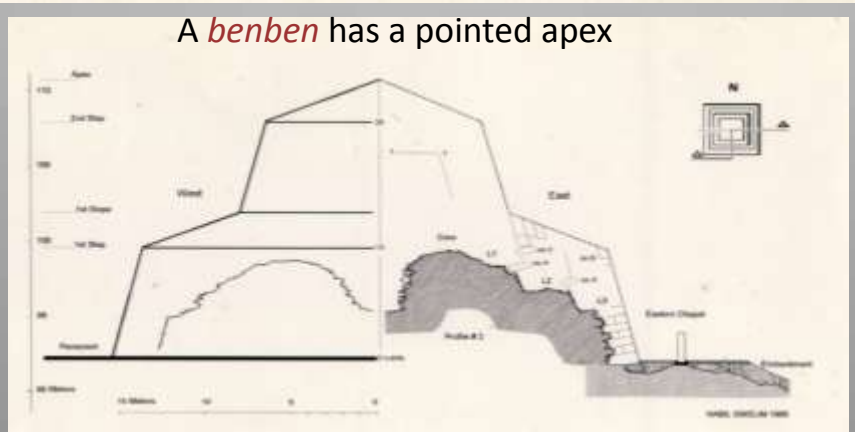
South

RELIGIOUS SHAPES

A *step pyramid* has a platform on top

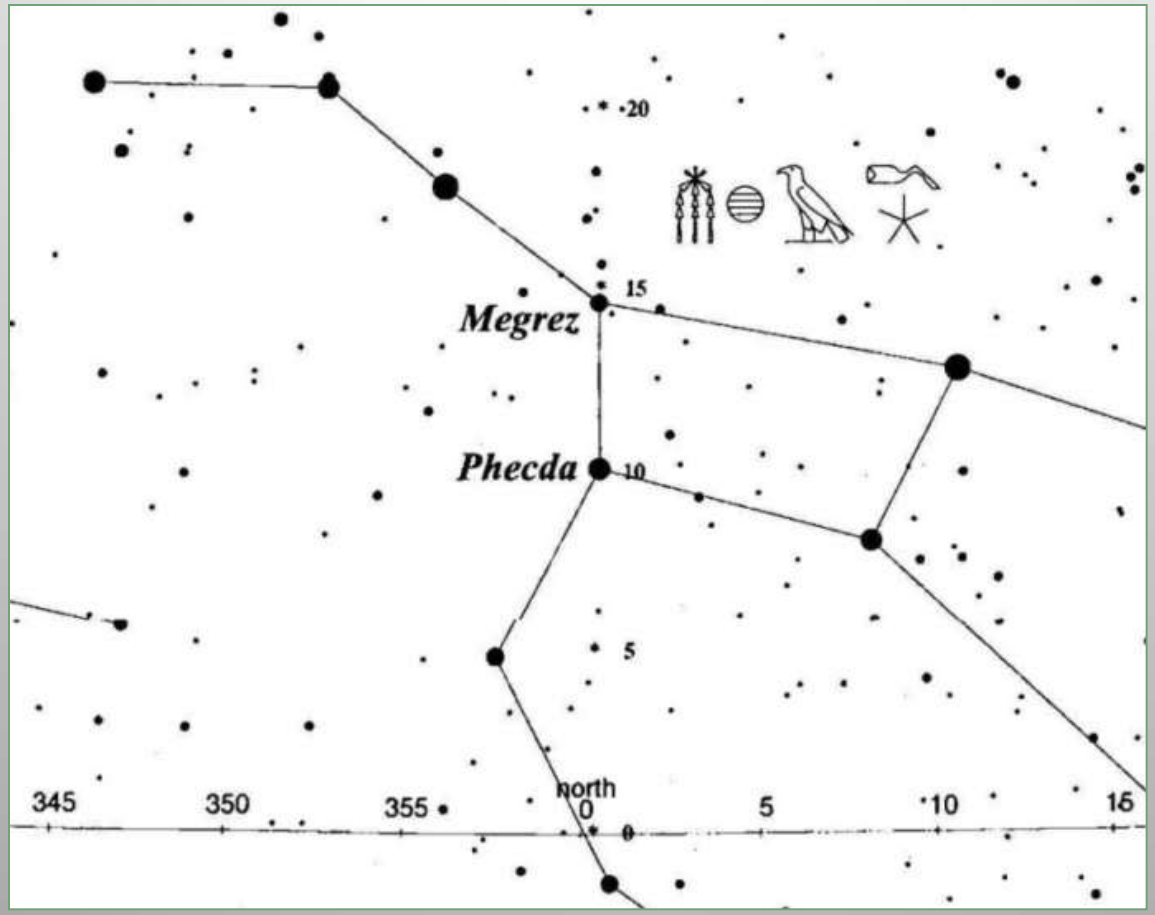


A *benben* has a pointed apex



ASTRAL ORIENTATION

URSA MAJOR

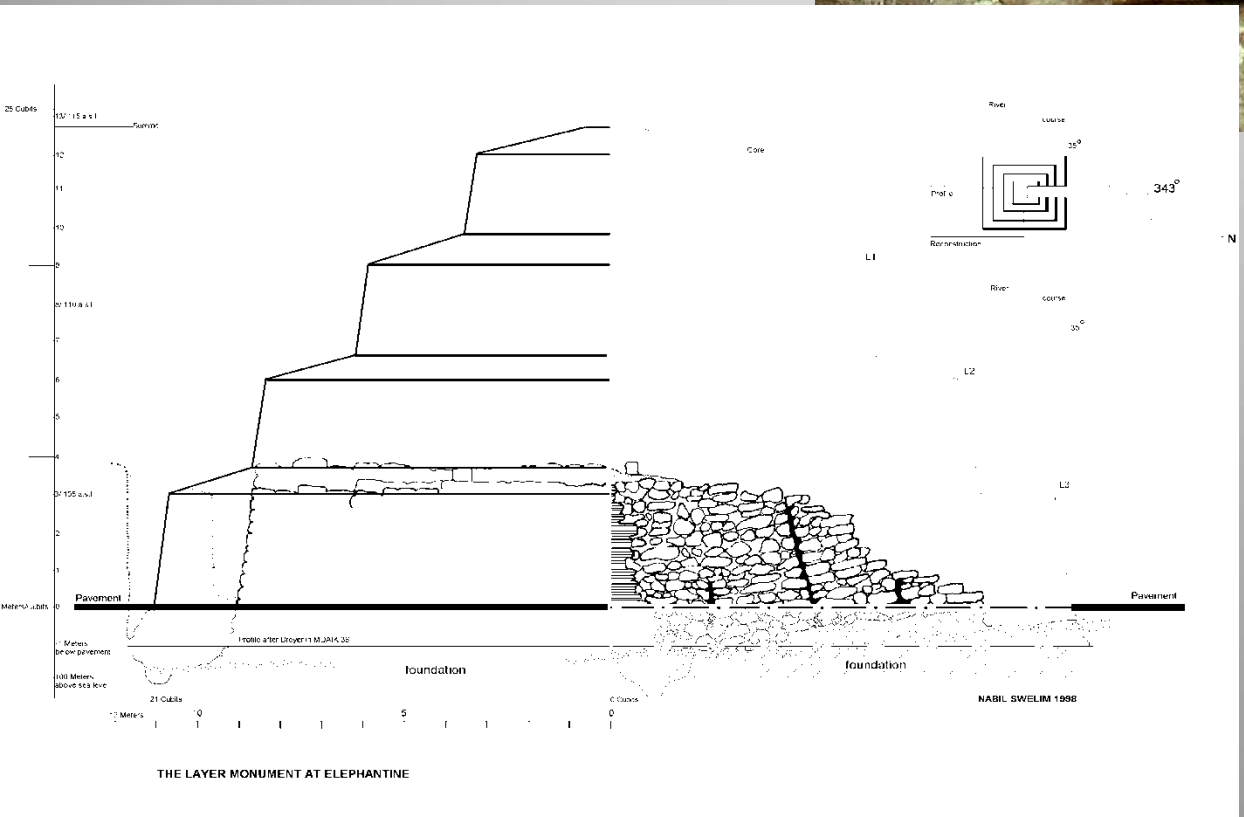


The 2 stele in the eastern chapel may have been aligned with a Simultaneous meridian transit of Phecda and Megrez signalling almost accurately due-north in the case of Seila

ASTRAL ORIENTATION

THE MSP AT ELEPHANTINE

Oriented to an important day of **the civil calendar**



THE LAYER MONUMENT AT ELEPHANTINE

~16¼º±¾º is the declination of Sunrise at *Wepet Renpet* ca. 2570±30 B.C.

LOCAL SCENARIOS

MEXICO
CHINA
BOSNIA

LOCAL SCENARIO MEXICO

EXCESSIVE FEATURES WHICH ARE ACCEPTED: MESOAMERICA

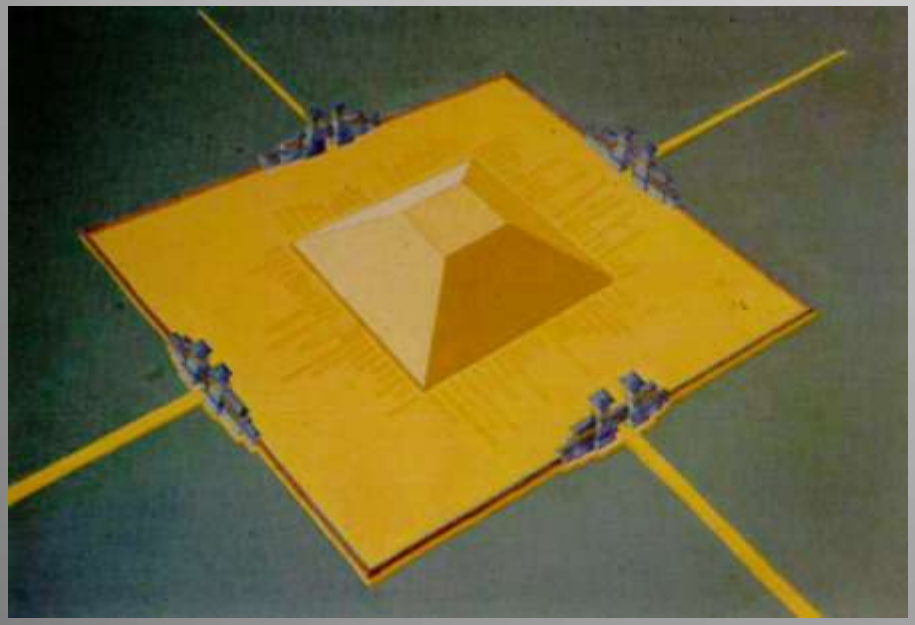
Huaca del Sol at Teotihuacán

Huaca de la Luna

Chichén Itzá in the Yucatan

Tikal in Guatemala

LOCAL SCENARIO CHINA

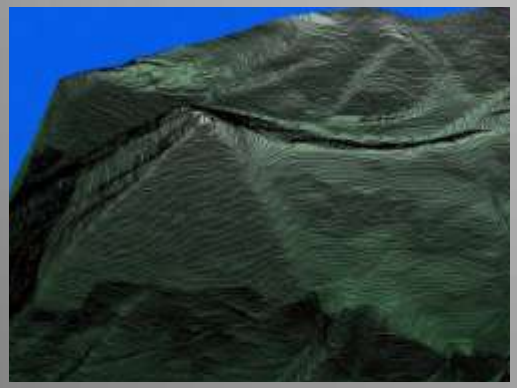


LOCAL SCENARIO BOSNIA

GIANT PYRAMID HILLS

classical shape – geologically built ; with human intervention?

The pyramid hill Visočica north side



N E corner

N W corner

Image by the artist

GREATEST OF ALL

AMAZING! EVEN BY POBOTS

The great pyramid of Khufu was built of limestone blocks of an average volume of one m^3 weighing 2.5 metric tons

2.6 million blocks .

This figure comes from the volume of a pyramid being $base^2$ X height /3, (230^2X148/3)

2,600,000 m^3 .

The Turin Canon tells us that Khufu reigned for

23 years.

Assuming that the pyramid was built every day of the 23 years of his reign, then we have of building

8395 days .

Working hours for humans should be 10 hours a day, then we have 83,950 hours or

5,037,000 minutes.

To install 2,600,000 blocks in 5,037,000 minutes by robots they have to install

ONE BLOCK, EVERY, LESS THAN TWO MINUTES. (1.94 MIN)

By man power the actual procedure was not like this;
it had to be

much faster rate at the start

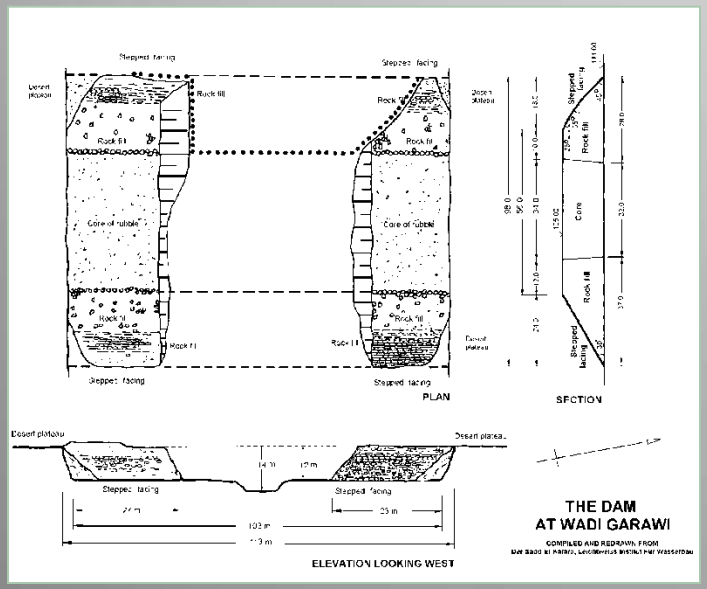
and

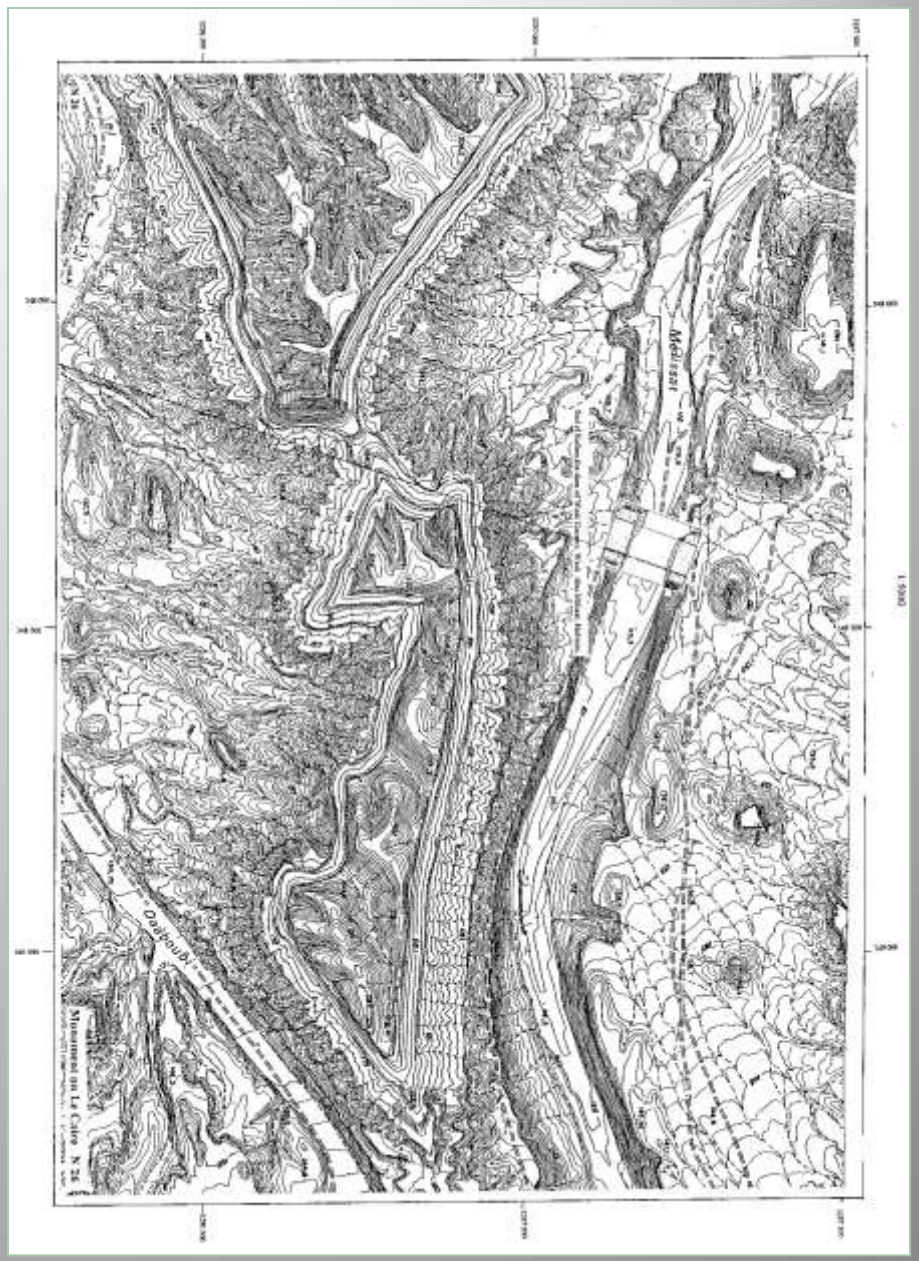
slower towards the finish

ORGANIZED MAN POWER HAD TO KEEP UPTHE INTENCITY REQUIRED

SAFETY OF LOGISTICS
An example at the dam at Wadi Garawi

The dam at Wadi Garawi was built to prevent flash floods





CONCLUSION

This brief browsing of pyramid science:

INVESTIGATING: geology, archaeology and architecture

and

RESEARCHING: terms, properties, concepts and local scenarios

SHOWS THAT:

AROUND THE WORLD THERE ARE HUNDREDS OF

PYRAMIDS AND PYRAMID-LIKE MONUMENTS

They need to be brought to light.