

GIZA PYRAMIDS MEASUREMENTS - IDENTICAL TO THREE PLANETS

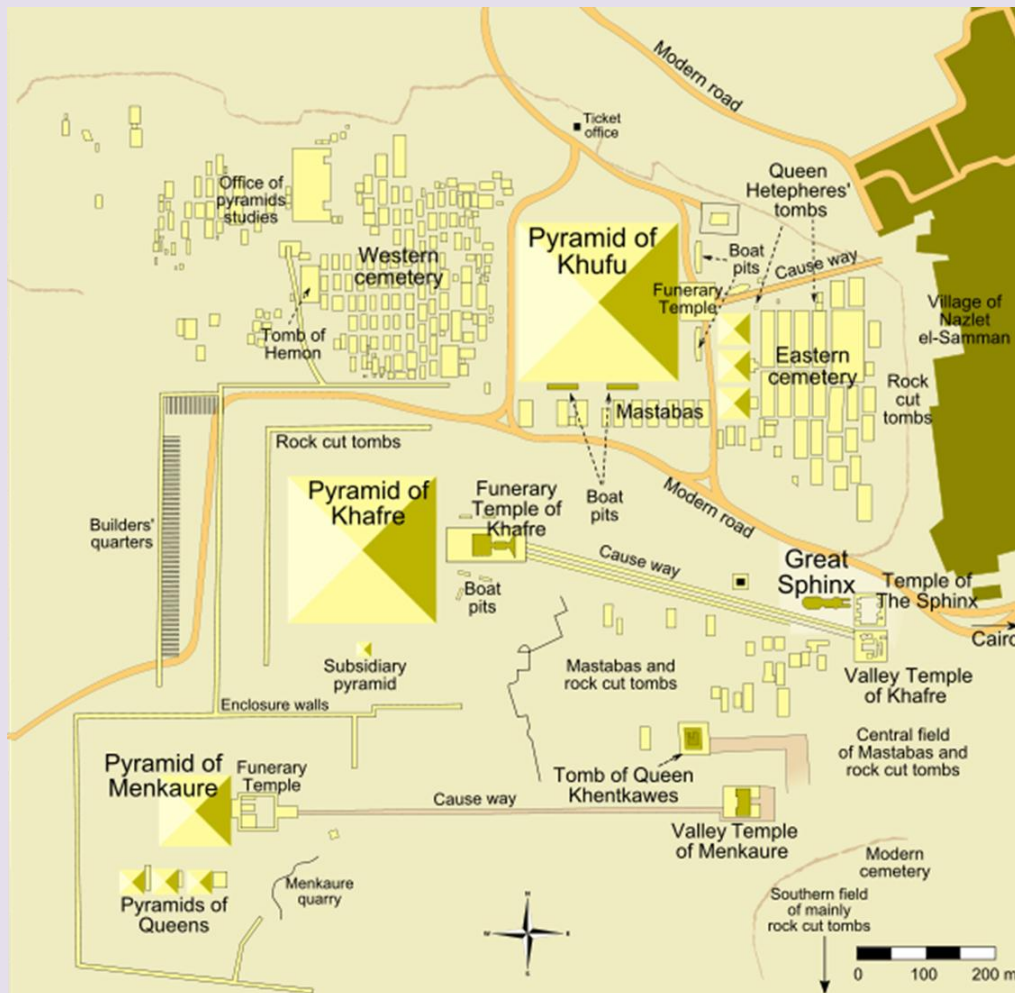
INTRODUCTION

This paper displays the amazing correlation between the layout of the three main Giza pyramids and the planets: Venus, Earth, and Mars.

We find three ways in which pyramid measurements correspond to the planets:
(1) Distance to the Sun; (2) Volume; (3) Meaning of the Bible Numbers¹.

GIZA COMPLEX MAP²

The three pyramids: Great Pyramid (Khufu), 2nd (Khafre), and 3rd (Menkaure).



¹ www.biblenumbersforlife.com

² [http://en.wikipedia.org/wiki/File:Giza_pyramid_complex_\(map\).svg](http://en.wikipedia.org/wiki/File:Giza_pyramid_complex_(map).svg)

THE DISTANCE TO THE SUN OF THE THREE PLANETS

Consider the distance of the three planets from the Sun (semi-major axis):³

- Venus 108.2 million km (72.33% of Earth's distance)
- Earth 149.6 million km
- Mars 227.9 million km (152.37% of Earth's distance)

The location, marked on the map below as a red sphere, we will call the 'Sun Point'. It is located 96.1 RC South and 779.0 RC West of the center of the Great Pyramid. From this point the distance to the centers of the three pyramids are:

- Venus D2 567.83 Royal Cubits (72.35% of D1)
- Earth D1 784.87 Royal Cubits
- Mars D3 1195.76 Royal Cubits (152.35% of D1)



³ Source of planet data is www.solarsystem.nasa.gov/planets/

We see immediately that the distances of the three pyramids to the 'Sun Point' on the Giza complex are in exactly⁴ the same proportion as the distances of the real planets to the center of the solar system. We conclude that each pyramid on the Giza complex that is symbolic of a planet in the solar system:

- Great Pyramid (Khufu) is symbolic of the Earth
- 2nd Pyramid (Khafre) is symbolic of Venus
- 3rd Pyramid (Menkaure) is symbolic of Mars

The accuracy of the fit of the distance data: Venus (+/-0.02%), Mars (+/-0.02%).

THE VOLUME OF THE PLANETS

Consider the volume of the three planets:⁵

- Venus 928.42 billion cubic km (85.71% of Earth's volume)
- Earth 1,083.21 billion cubic km
- Mars 163.11 billion cubic km (15.06% of Earth's volume)

Compare this to the volume of the three pyramids:⁶

- 2nd Pyramid 15.417 million cubic Royal Cubits (85.54% of G.P.)
- Great Pyramid 18.023 million cubic Royal Cubits
- 3rd Pyramid 1.706 million cubic Royal Cubits (9.46% of G.P.)

The volume of the 2nd Pyramid relative to the Great Pyramid (85.54%) is very close to the volume of Venus relative to the Earth (85.71%). The accuracy is +/- 0.17%.

The volume of the 3rd Pyramid relative to the Great Pyramid (9.46%) does not line up with the volume of the planet Mars relative to the Earth (15.06%), not nearly as close as the fit with the 2nd Pyramid.

We need to take another look at the 3rd pyramid to explain the difference.

⁴ Error is +/- 0.02%: Venus (72.347% -72.332%=.02%), Mars (152.35%-152.37%=0.02%)

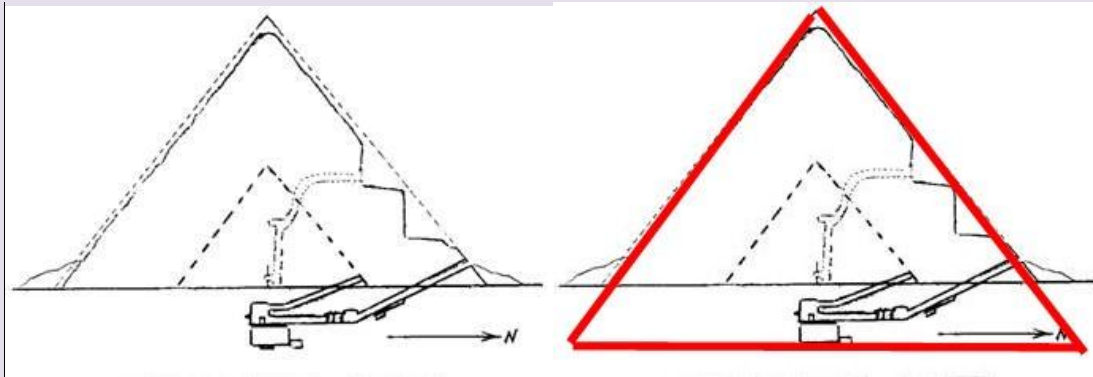
⁵ Source of planet data is www.solarsystem.nasa.gov/planets/

⁶ Full presentation of pyramid data and calculations in the Appendix

The burial chambers in the Great Pyramid and the 2nd Pyramid are all above the ground, but in the 3rd Pyramid, the burial chamber is beneath the ground. What happens if we continue the dimensions of the 3rd Pyramid down into the ground in such a way that the slope and shape of the pyramid is preserved, but its base is at the floor level of its burial chamber? A drawing is provided below to show this:

3rd Pyramid (As Is)

3rd Pyramid (Extended Under Ground)



When we recalculate the volume of the 3rd Pyramid using the underground portion as described above, here is the table of comparisons to the planets:

The volume of the three planets:⁸

- Venus 928.42 billion cubic km (85.71% of Earth's volume)
- Earth 1,083.21 billion cubic km
- Mars 163.11 billion cubic km (15.06% of Earth's volume)

The volume of the three pyramids (3rd Pyramid including underground portion):⁹

- 2nd Pyramid 15.417 million cubic Royal Cubits (85.54% of G.P.)
- Great Pyramid 18.023 million cubic Royal Cubits
- 3rd Pyramid 2.715 million cubic Royal Cubits (15.06% of G.P.)

There is now a good match between the volume of the 3rd Pyramid (15.06%) relative to the Great Pyramid and the volume of Mars (15.06%) relative to the Earth. We will offer spiritual reasons why this makes sense in the next section.

⁷ Source of diagram: <http://guardians.net/egypt/pyramids/Menkaure/MenkaurePyramid.htm>

⁸ Source of planet data is www.solarsystem.nasa.gov/planets/

⁹ Full presentation of pyramid data and calculations are provided in the Appendix

CONFIRMATION – USING BIBLE NUMBERS

The planets have a spiritual meaning based on their astronomical dimensions: mass, volume, surface area, surface gravity, eccentricity of orbit, tilt, rotation, and inclination to the ecliptic. We interpreted the astronomical numbers for each celestial object in the solar system using the spiritual meaning of Bible numbers¹⁰ and arrived at the following conclusions:

- | | |
|-----------------|--|
| 1. The Sun | 1 st Witness of God: Holy Spirit |
| 2. Mercury | 2 nd Witness of God: The Law |
| 3. <u>Venus</u> | 3 rd Witness of God: <u>The Prophets</u> |
| 4. <u>Earth</u> | 4 th Witness of God: <u>Measure of All Things</u> |
| 5. Moon | Satan's Woman (False Worship) |
| 6. <u>Mars</u> | <u>Bloodshed</u> (Fighting) |
| 7. Ceres | Destruction (Annihilation) |
| 8. Jupiter | 5 th Witness of God: Messiah |
| 9. Saturn | 6 th Witness of God: Glorious Church |

The measurements of the Giza pyramids confirm these interpretations:

- The distance from the point we call the 'Sun' on the Giza complex pavement to the center of the 2nd Pyramid (**VENUS**) is 568 Royal Cubits. The number 568 = 71 x 8. The spiritual meaning of 568 is therefore "Prophecy" (71) of the "Holy Man" (8). This matches our independent analysis of the planet Venus as having the spiritual meaning "The Prophets". Note: The number 8 "Holy Man" is identified with Jesus Christ, who is the only person who ever lived without sin.
- The distance from the point we call the 'Sun' on the Giza complex pavement to the center of the 3rd Pyramid (**MARS**) is 1,196 Royal Cubits. The number 1,196 = 7 x 9 x 19. The spiritual meaning of 1,196 is therefore "The End" (7) of the "Spirit" (9) of "Faith" (19). The number 7 x 9 = 63. The spiritual meaning of 63 is "God's Wrath". By "Faith" (19) we see the

¹⁰ See www.biblenumbersforlife.com/7-0-stars/

“Wrath of God” (63) is coming. Who does it come upon? It comes upon those who refuse to worship God alone. Unwillingness to submit to God results in conflict between man and God, and bloodshed between men and each other. The Bible says **“What causes fights and quarrels among you? Don’t they come from your desires that battle within you? You want something but you can’t get it. You kill and covet, but you cannot have what you want. You quarrel and fight.”** (James 4:1-2)

- The distance from the point we call the ‘Sun’ on the Giza complex pavement to the center of the Great Pyramid (**EARTH**) is 785 Royal Cubits. The number 785 = 5 x 157. The spiritual meaning of 785 is therefore “Grace” (5) to “The Chosen People” (157) or it can be translated “Life” (5) of the “The Chosen People” (157). The Earth is the place in the Universe where God created man, man sinned, and God took for himself a people out of sinful mankind, his chosen people, for himself. The Earth and the chosen people will undergo great trauma. In spite of all the failings of the chosen people, God will show his grace to them. In the end there will be a millennium of peaceful life on Earth under the authority of the Messiah reigning from Jerusalem.

ANGLES OF PYRAMIDS RELATIVE TO THE ‘SUN’ AND THE GREAT PYRAMID

In sacred geometry the numerical values of angles also have spiritual meanings.

- (1) **VENUS** “The Prophets”¹¹. The triangle formed between the point on the Giza pavement we call the ‘Sun’, the Great Pyramid (Earth), and the 2nd Pyramid (Venus) has an angle of **45** degrees at the Great Pyramid vertex. The spiritual number **45** means **“Preserved and Protected”**. This spiritual number points to the remarkable historical fact of the preservation of the prophetic message of God down through the ages.¹² From the books of Moses written approximately 3400 years ago to the books of John the Apostle written approximately 1900 years ago, all the words of God have

¹¹ “The Prophets” refer to the books of the prophets, not the prophets themselves.

¹² The prophets often suffered grim and untimely deaths, but their words, the words of God, have survived.

survived to this day. The discovery of parchments in the Qumran caves provided copies of Isaiah that match almost to the letter the copies extant today.

(2) **MARS “Bloodshed”**. The triangle formed between the point on the Giza pavement we call the ‘Sun’, the Great Pyramid (Earth), and the 2nd Pyramid (Venus) has an angle of **23** degrees at the Great Pyramid vertex. The spiritual number **23** means “**Death**”. Has the dear reader made the connection yet that Mars is the red planet, the color of blood? All the spiritual numbers of Mars tell the same story, including even the angles of the 3rd pyramid relative to the Earth and the ‘Sun’ location on the Giza pavement. All God’s truth agrees, and he ordained the physical size and location of the planets in the sky and the pyramids on the ground at Giza in such a way that they would speak of deep spiritual mysteries. Our God is an awesome God!

MYSTERY OF THE 3RD PYRAMID – BURIED 1/3 UNDER GROUND

We noted earlier in this paper that when the shape of the 3rd Pyramid was extended underground to the depth of the floor of the burial chamber, the volume became 15.1% of the volume of the Great Pyramid. This is perfect match to the volume of Mars as a percent of the volume of the Earth.

According to Bible numbers, the spiritual meaning of Mars is “BLOODSHED” and “FIGHTING”. Did God put the burial chamber in the 3rd Pyramid underground to emphasize a point? Consider what the Word of God says in the Book of Ezekiel:

“From within the grave the mighty leaders will say of Egypt and her allies ‘They have come down and they will lie with the uncircumcised, with those killed by the sword.’ ...Their graves are in the depths of the pit and her army lies around her grave. All who had spread terror in the land of the living are slain, fallen by the sword.” (Eze. 32:21-23)

Jesus said of Satan “**he was a murderer from the beginning.**” (John 8:44). When people and nations take matters into their own hands and use force to get their

way, are they not walking in the footsteps of the Devil? When they terrorize others with their murderous power how can they escape God's judgment? This appears to be the message of Mars and the 3rd Pyramid of Giza.

What is significant is this is provided to us figuratively in a pyramid of Egypt. Egypt for the greater part of ancient history was a world power and a warring nation of great might. To put a monument with a prophetic warning against violence in Egypt is most apt.

APPENDIX - CALCULATIONS

PYRAMID MEASUREMENTS

Egyptologists are forever in the debt of the fastidious measurements of the Giza pyramid complex made by Dr. Flinders Petrie in the early 1880's. Dr. Petrie measured the pyramids internally, externally, and in relation to each other. To be certain multiple measurements were taken and with different instruments, e.g. tape and rod. As a result these measurements have only a small error. The measurement of the location of the pyramids to each other was conducted by setting reference points outside the area, measuring to those points then using triangulation to calculate distances. Further details are provided below.

LENGTH OF THE ROYAL CUBIT

For the purpose of all pyramid dimensions, the Royal Cubit (RC) is taken to be 20.6066 Pyramid Inches (P").¹³ A Pyramid Inch is equal to 1.0011 British Inches¹⁴. The Royal Cubit is not a whole number because its calibration is based on the square root of π and the number of days in a year, which has a trailing decimal.¹⁵ The assumption chosen for the length of a Royal Cubit is critical to determining Pyramid dimensions for purposes of interpreting spiritual numbers. We gain confidence in this definition because we see so many of the internal dimensions of the Great Pyramid are whole numbers using this length of the Royal Cubit. For further detail regarding measurements of the Great Pyramid and their prophetic significance for all its internal chambers, please see our papers on the website www.biblenumbersforlife.com.

¹³ Multiplying 20.6066 by 1.0011 this equals 20.6293 British Inches (B") which compares well to Sir Isaac Newton's figure of 20.63 B", and Professor Petrie's estimate of 20.634 B".

¹⁴ According to the New Imperial Standard of 1855. In 1959 the British inch was recalibrated to match 2.54 cm.

¹⁵ Specifically, there were 365.242822 days for the duration of a Winter Solstice in 2560 BC. Rounding this to 365.243 and multiplying by 100 we get 36,524.3 Pyramid Inches in the base perimeter of the Great Pyramid, or 9,131.075 P" per base side. Dividing this number by 443.113627 we get the Royal Cubit equals 20.6066 P". The number 443.113267 is the length of the short side of the triangle of with hypotenuse 1000 which has acute angle equal to the rate of rise in the Ascending Chamber (26°18'9.73"). 443.113267 is equal to 250 x Square Root of π . See "The Great Pyramid of Giza" by Eckhart R. Schmitz. www.thegreatpyramidofgiza.ca

PETRIE'S RAW DATA – PYRAMID LOCATIONS AND OUTER DIMENSIONS¹⁶

The table below has the raw data from Petrie which is measured in “Units”¹⁷. This is then translated into British Inches by Petrie’s own ratio which is given as 196.750 Unit / British Inch with an error estimate of +/- 0.001 Unit¹⁸. The conversion from British Inches to Royal Cubits is 20.6293 per our definition (discussion above).

TABLE ONE - PETRIE COORDINATES OF PYRAMID CASINGS									
	Petrie's Measure (Units) Offsite Reference		Petrie's Measure (Units) NE Corner GP = 0.0		Petrie's (British Inch) NE Corner GP = 0.0		Royal Cubits NE Corner GP = 0.0		
	North	East	North	East	North	East	North	East	
GREAT PYRAM									
NE Corner	1,884,059	1,385,077	-	-	-	-	-	-	-
SE Corner	3,668,016	1,421,027	1,783,957	35,950	9,067.13	182.72	439.53	8.86	
SW Corner	3,632,052	3,205,019	1,747,993	1,819,942	8,884.34	9,250.02	430.67	448.40	
NW Corner	1,848,077	3,169,066	- 35,982	1,783,989	- 182.88	9,067.29	- 8.87	439.54	
Center	2,758,051	2,295,047	873,992	909,970	4,442.14	4,625.01	215.33	224.20	
2ND PYRAMID									
NE Corner	4,630,077	4,089,065	2,746,018	2,703,988	13,956.89	13,743.27	676.57	666.21	
SE Corner	6,297,095	4,121,066	4,413,036	2,735,989	22,429.66	13,905.92	1,087.29	674.10	
SW Corner	6,265,059	5,789,018	4,381,000	4,403,941	22,266.84	22,383.44	1,079.40	1,085.05	
NW Corner	4,598,035	5,756,019	2,713,976	4,370,942	13,794.03	22,215.72	668.67	1,076.92	
Center	5,448,017	4,939,017	3,563,958	3,553,940	18,114.14	18,063.23	878.09	875.62	
3RD PYRAMID									
NE Corner	7,998,021	6,437,075	6,113,962	5,051,998	31,074.78	25,677.25	1,506.36	1,244.72	
SE Corner	8,814,032	6,457,092	6,929,973	5,072,015	35,222.23	25,778.98	1,707.41	1,249.65	
SW Corner	8,793,098	7,275,072	6,909,039	5,889,995	35,115.83	29,936.44	1,702.26	1,451.18	
NW Corner	7,976,098	7,255,056	6,092,039	5,869,979	30,963.35	29,834.71	1,500.96	1,446.25	
Center	8,395,877	6,856,074	6,511,818	5,470,997	33,096.91	27,806.85	1,604.39	1,347.95	

Petrie’s measurements are taken relative to an offsite reference point. We will use the North East corner of the Great Pyramid as the reference point of our calculations. In graphical terminology, the North East corner of the Great Pyramid will be the (0,0) coordinates in the X-Y plane. In order to make the North East corner of the Great Pyramid into the (0,0) coordinate, all locations must subtract 1,884,059 Units from their North location and 1,385,077 Units from their East location. The result is provided in the second column of Table One above. The third column is the translation of the second column into British Inches.

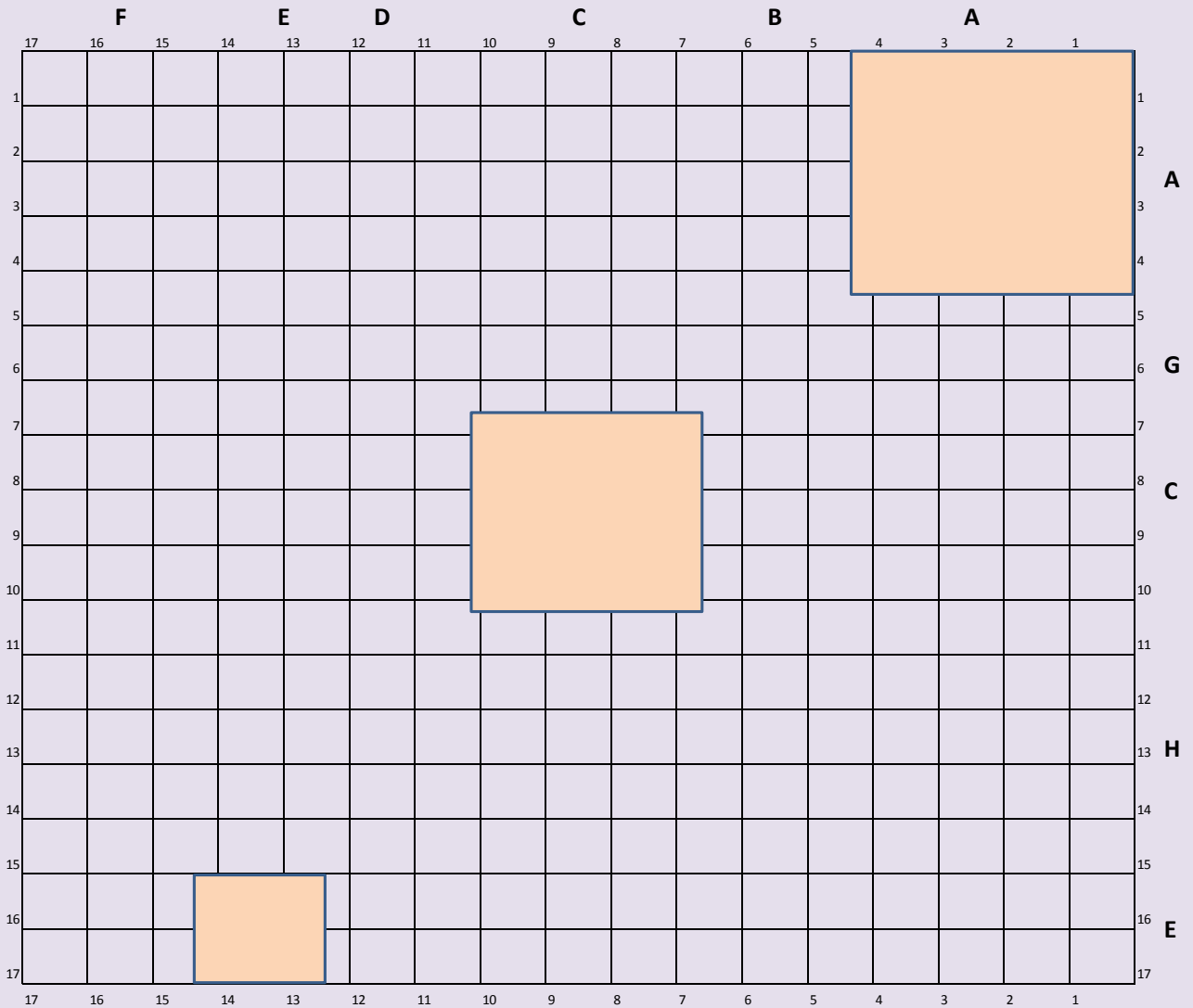
¹⁶ Taken out of Petrie’s book, transcripts provided by: <http://www.ronaldbirdsall.com/gizeh/petrie/c5.html>

¹⁷ What the Unit measures is unknown to this author, perhaps it is a surveyor term.

¹⁸ Absolutely amazing accuracy. Our confidence is buoyed by this degree of accuracy in pyramid measurement.

The North West corner and the South East corner of the Great Pyramid don't make sense. We don't know why, but the other two corners permit us to measure the North and East sides. Since by all accounts the Great Pyramid is most perfectly square, those are the only measurements we need.

From the raw data above we can now translate into the dimensions of the pyramids and the gaps between them. The graph below shows the layout. Scale is 100 Royal Cubits per square.



	Code	Parts	Sum		Code	Side	Sum
North Side	A	439.54	439.54	East Side	A	439.54	439.54
	B	226.67	666.21		G	237.03	676.57
	C	410.78	1,076.99		C	410.78	1,087.35
	D	167.73	1,244.72		H	419.02	1,506.37
	E	201.35	1,446.07		E	201.35	1,707.72
	F	261.65	1,707.72				
	Royal Cubits	1,707.7		Royal Cubits	1,707.7		

The underlying calculation for the dimensions above:

	British Inches	Royal Cubits	
Great Pyramid			
North Side	9,067.29	439.54	NW-NE (East)
East Side	9,067.13	439.53	SE-NE (North)
South Side			
West Side			
Average	9,067.20	439.54	"A"
Gap: North Side	4,676.07	226.67	"B"
Gap: East Side	4,889.69	237.03	"G"
2nd PYRAMID			
North Side	8,472.45	410.71	NW-NE (East)
East Side	8,472.77	410.72	SE-NE (North)
South Side	8,477.52	410.95	SW-SE (East)
West Side	8,472.81	410.72	SW-NW (North)
Average	8,473.89	410.78	"C"
Gap: North Side	3,460.09	167.73	"D"
Gap: East Side	8,644.00	419.02	"H"
3rd PYRAMID			
North Side	4,157.46	201.53	NW-NE (East)
East Side	4,147.45	201.05	SE-NE (North)
South Side	4,157.46	201.53	SW-SE (East)
West Side	4,152.48	201.29	SW-NW (North)
Avg	4,153.71	201.35	"E"
Avg N&S	4,157.50	201.53	
Avg E&W	4,149.97	201.17	

The 3rd Pyramid is the most irregular: slightly wider (201.53 RC) than it is tall (201.17 RC). The difference of 0.5 royal cubits it is not considered to be material.

THE CENTER OF THE PYRAMIDS

The center of the pyramids using the (North Side, East Side) co-ordinate system and setting the NE corner of the Great Pyramid at (0,0):

- Great Pyramid (219.8, 219.8)
- 2nd Pyramid (871.6, 882.0)
- 3rd Pyramid (1,345.4, 1,607.04)

The center of the pyramids using the (North Side, East Side) co-ordinate system and setting the center of the Great Pyramid = (0,0)

- Great Pyramid (0,0)
- 2nd Pyramid (651.8, 662.2)
- 3rd Pyramid (1,125.6, 1,387.3)

The location of the 'Sun Point' is (315.9, 998.8) using the NE corner of the Great Pyramid as (0,0) and it is (96.1, 779.0) using the center of the Great Pyramid as (0,0).

The distance from the 'Sun Point' to the centers of the three pyramids may be deduced using Pythagorus' Theorem: the distance to the 'Sun Point' is the long side of the right angle triangle with sides (Planet – Sun [North Side], Planet – Sun [East Side]).