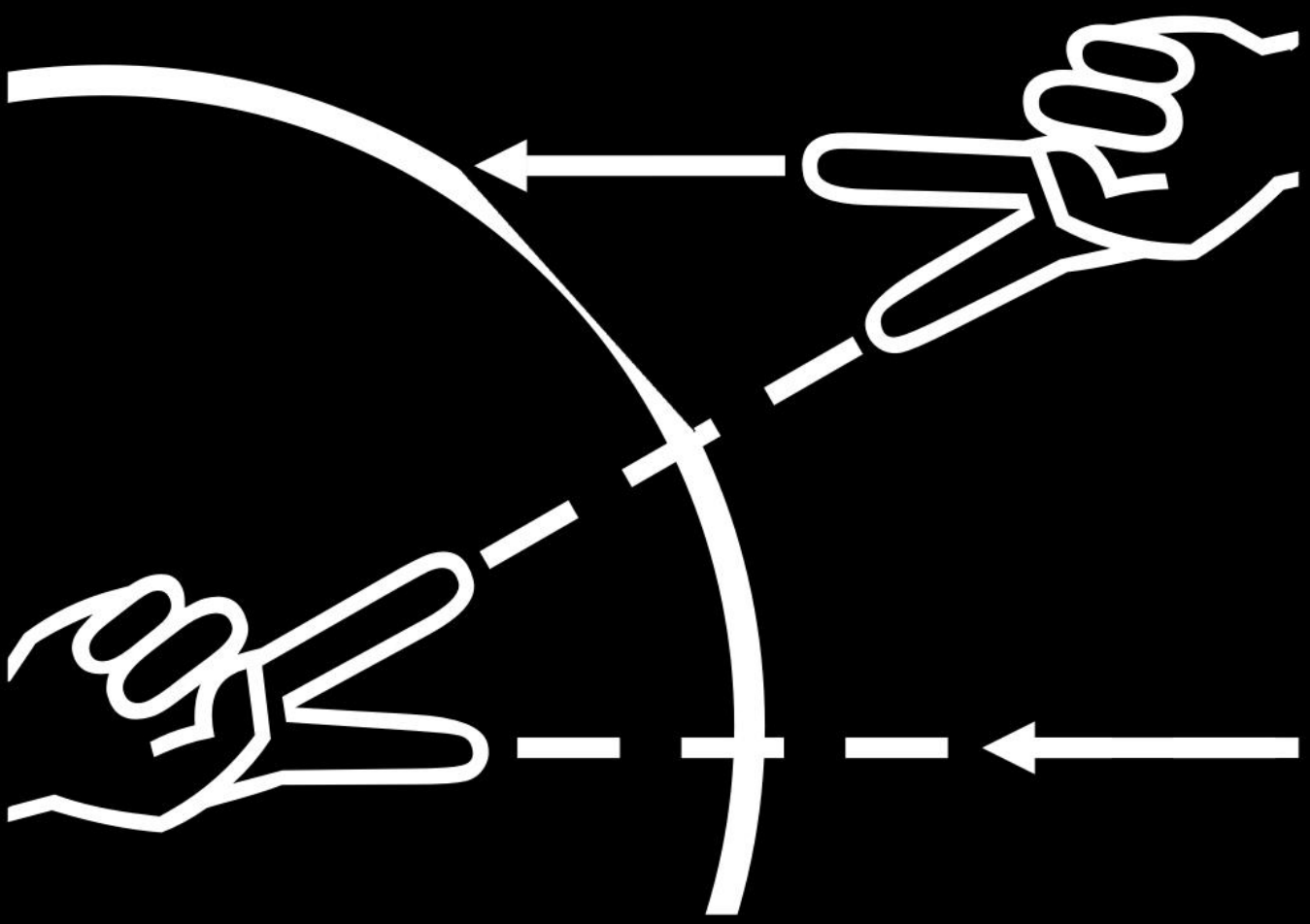
Eratosthenes



January 2016

4 continents
6 countries
17 schools

Participated to the 25 january measurements.

ARGENTINA

Anisacate

GREECE

Pastida, Petroupoli, Aigio, Ioannina, Piraeus, Chania
Ano Komi, Krokos, Athens Ilion, Athens Agion Anargyron

FRANCE

Lafrancaise

ROMANIA

Busteni, Margineni

TUNISIA

Ben Arous, Sfax

MALAYSIA

Kuantan

Aigio, Greece

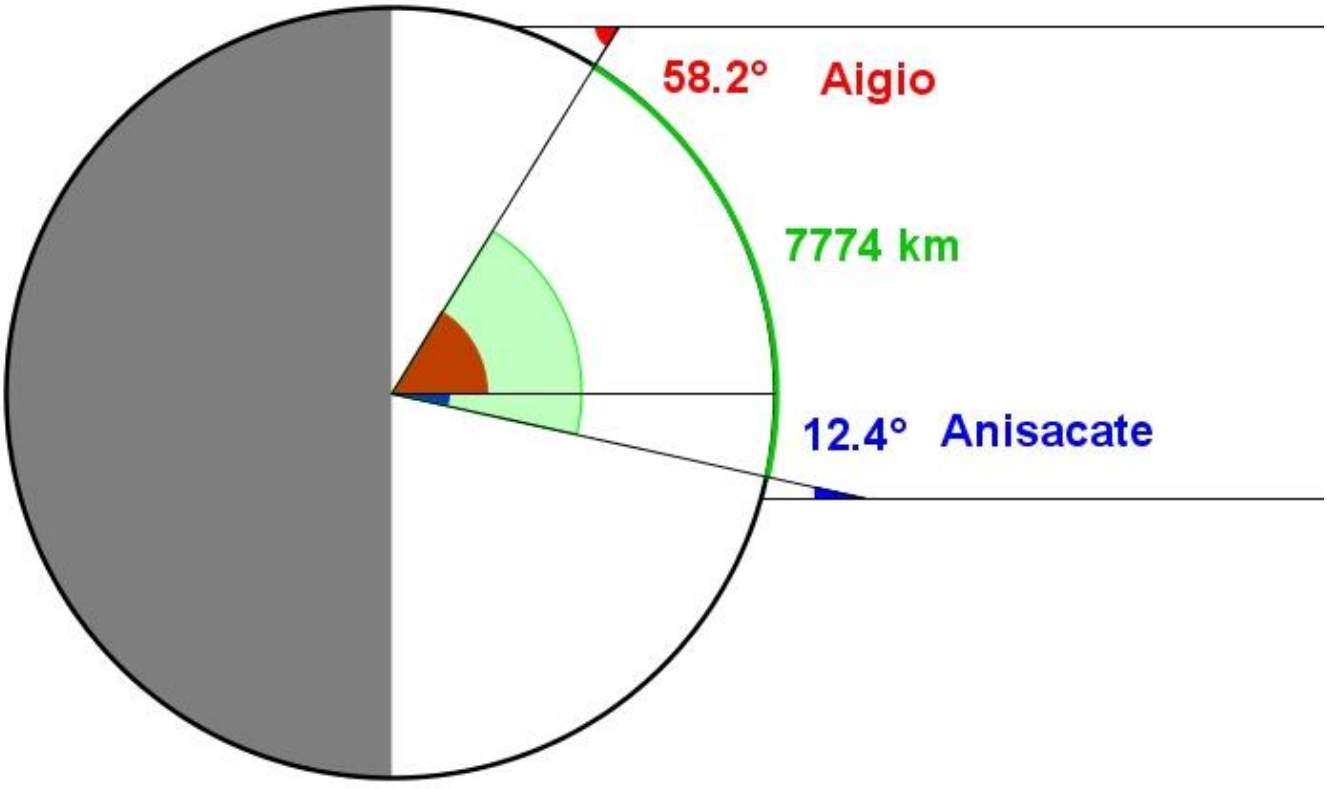
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079

Date	Gnomon	Shadow	Angle
21 January	50 cm	80.6 cm	58.2°

21 January 2016 (Aigio-GREECE 38.25)

22 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7774\ \text{km}}{58.2° + 12.4°} = 39641\ \text{km}$$

Anisacate, Argentina

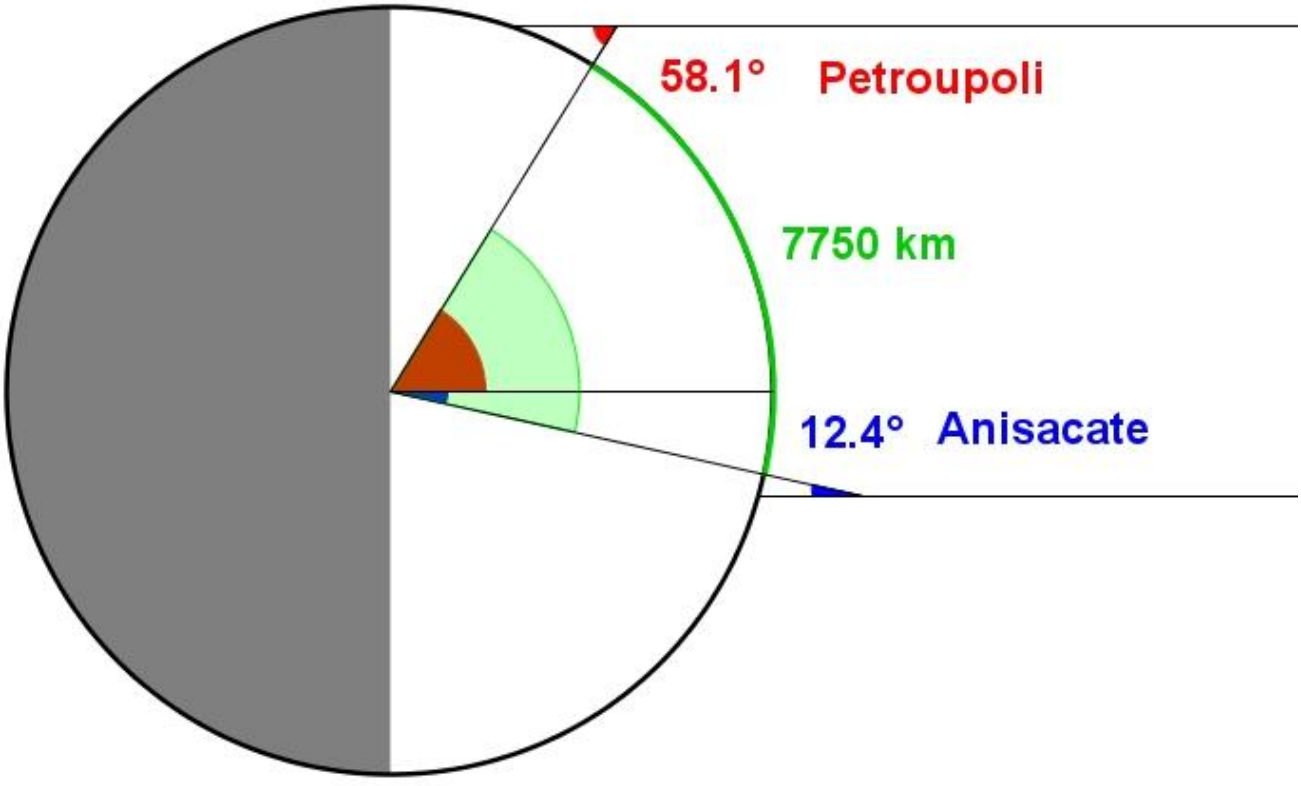
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400

Date	Gnomon	Shadow	Angle
11 January	100 cm	-17.5 cm	-9.9°
19 January	100 cm	-20 cm	-11.3°
22 January	100 cm	-22 cm	-12.4°

21 January 2016 (Petroupoli-GREECE 38.04)

22 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{58.1° + 12.4°} = 39574\ \text{km}$$

Ano Komi, Greece

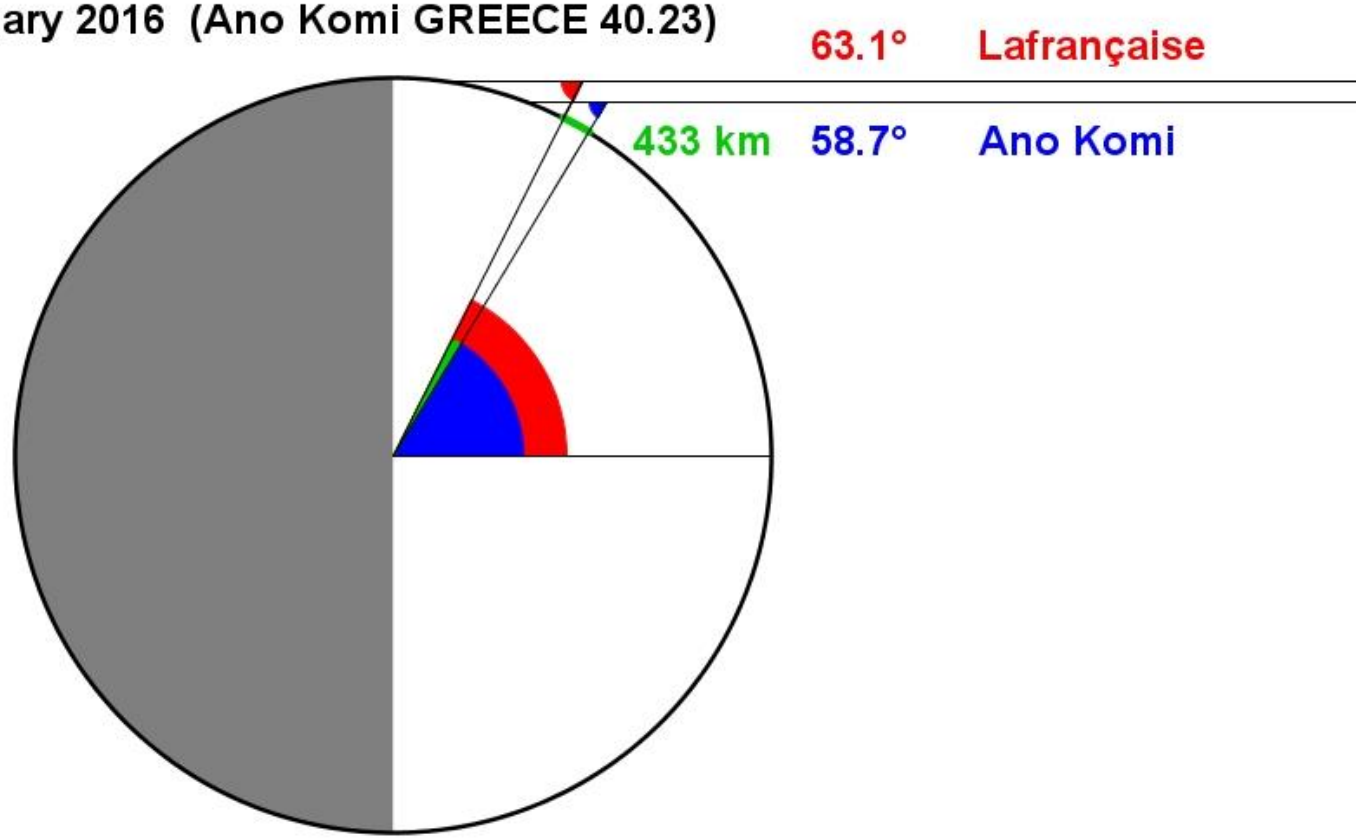
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ano Komi	Greece	Ano Komi Kozanis	40.226	21.831

Date	Gnomon	Shadow	Angle
25 January	100 cm	164.5 cm	58.7°

25 January 2016 (Lafrançaise-FRANCE 44.13)

25 January 2016 (Ano Komi GREECE 40.23)



$$\text{circumference} = \frac{360° \times 433\ \text{km}}{63.1° - 58.7°} = 35427\ \text{km}$$

Athens-A, Greece

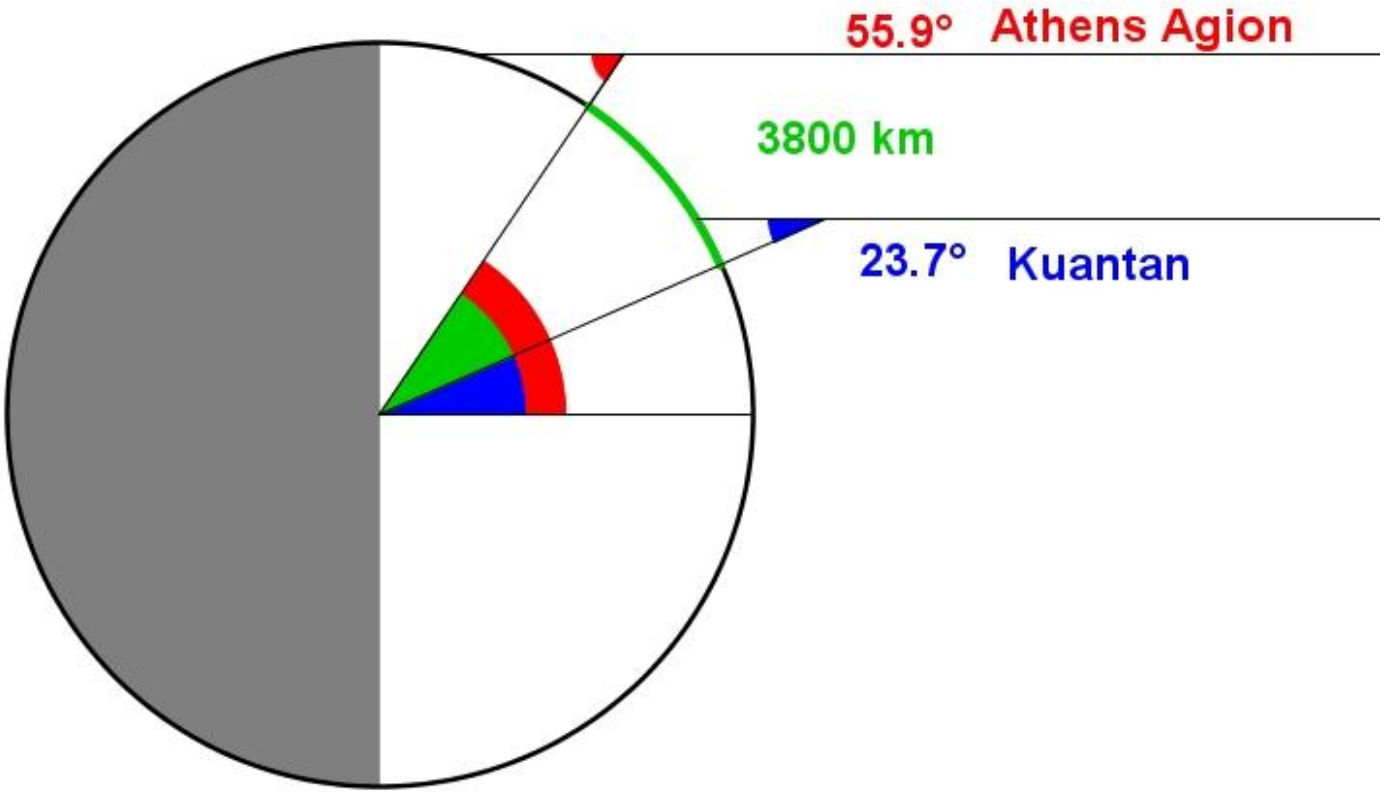
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Experimental College Agion Anargyron	38.027	23.726

Date	Gnomon	Shadow	Angle
28 January	49 cm	73.3 cm	56.2°

27 january 2016 (Athens Agion-GREECE) Latitude: 38.03°

27 january 2016 (Kuantan-MALAYSIA) Latitude: 3.83°



$$\text{circumference} = \frac{360° \times 3800\ \text{km}}{55.9° - 23.7°} = 42484\ \text{km}$$

Athens-I, Greece

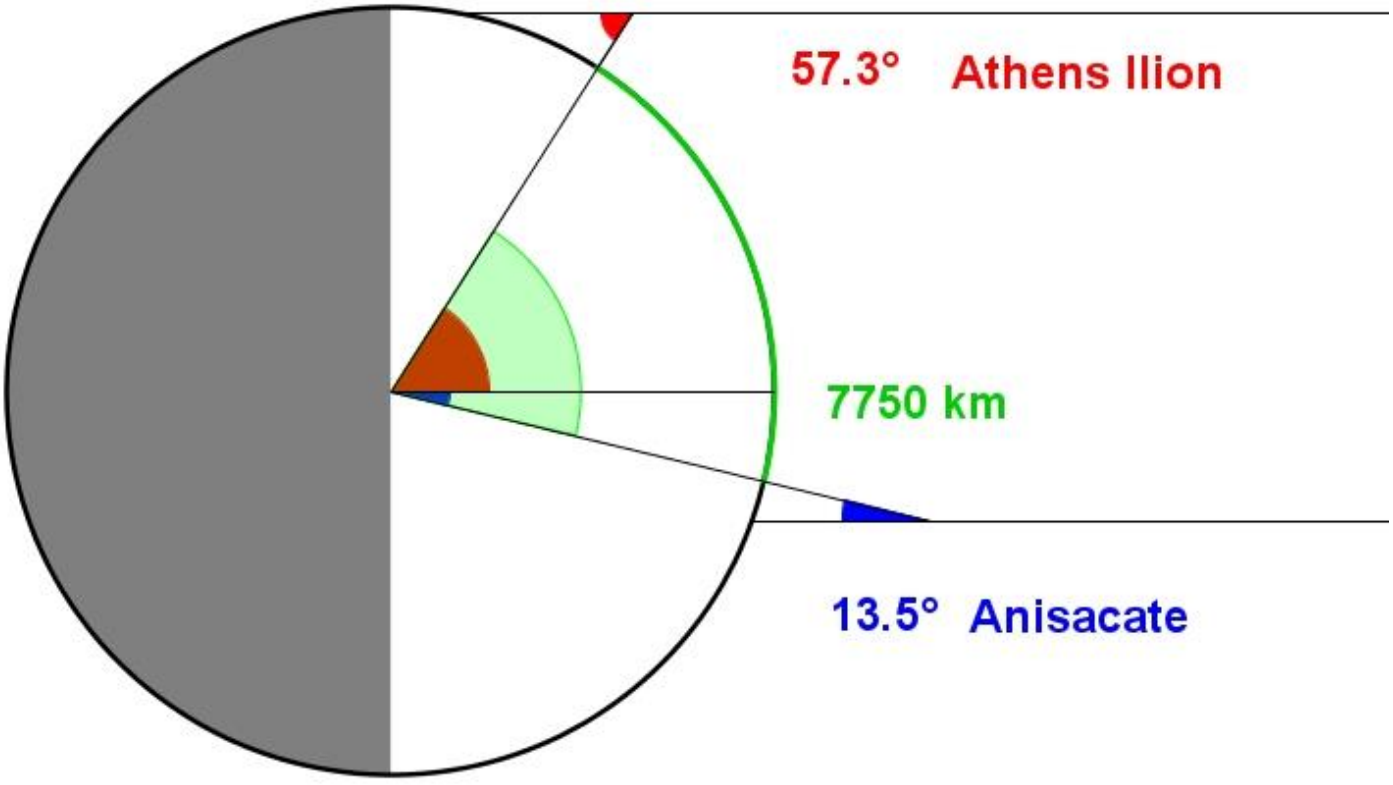
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	3rd Junior High School of Ilion	38.037	23.712

Date	Gnomon	Shadow	Angle
25 January	100 cm	158 cm	57.7°
27 January	100 cm	156 cm	57.3°

27 january 2016 (Athens Ilion-GREECE) Latitude: 38.04 °

27 january 2016 (Anisacate-ARGENTINA) Latitude: -31.72 °



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{57.3° + 13.5°} = 39407\ \text{km}$$

Ben Arous, Tunisia

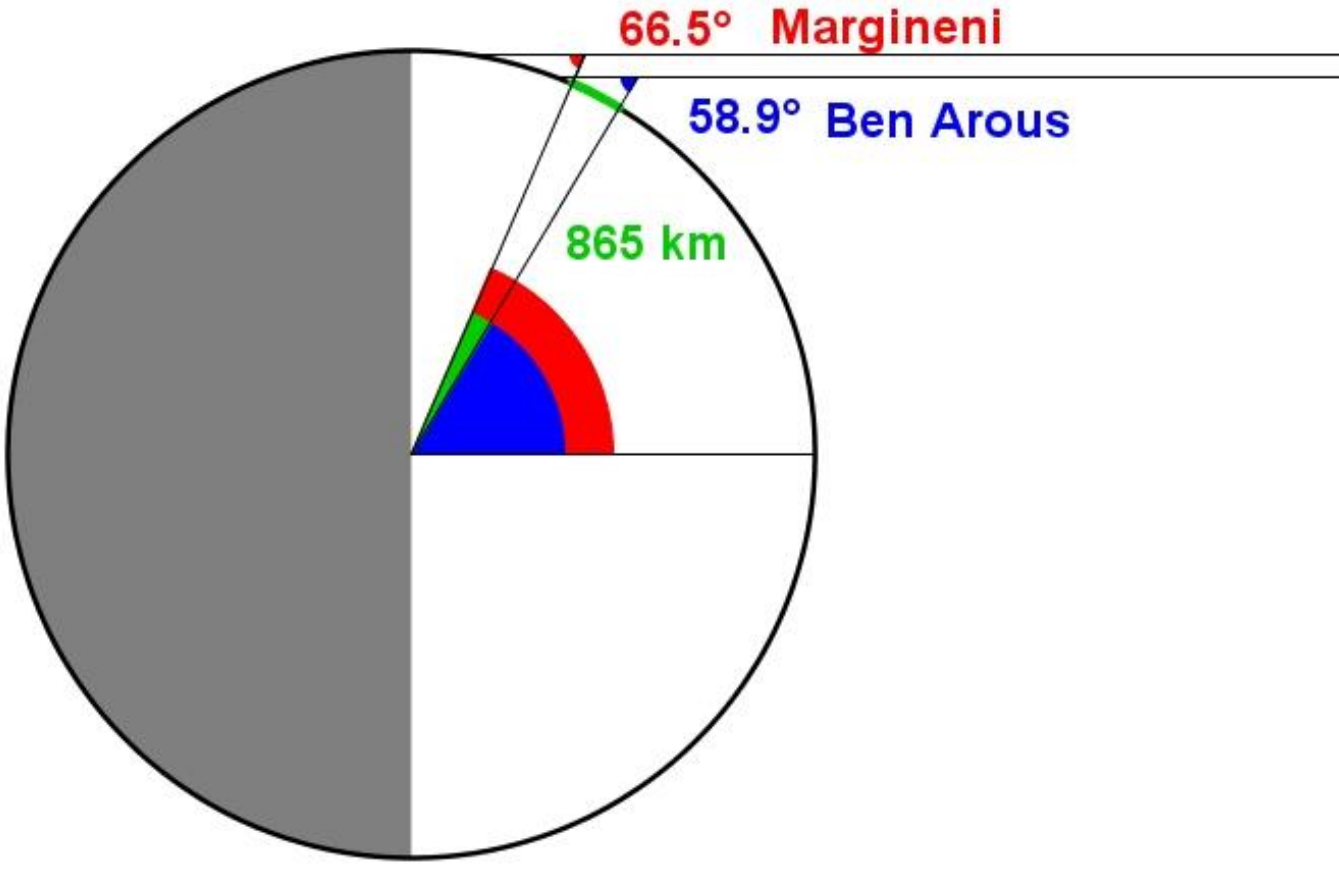
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ben Arous	Tunisia	College Ben Arous	36.750	10.222

Date	Gnomon	Shadow	Angle
20 January	5 cm	8.3 cm	58.9°

20 January 2016 (Margineni-ROMANIA 44.53)

20 January 2016 (Ben Arous TUNISIA 36.75)



$$\text{circumference} = \frac{360° \times 865\ \text{km}}{66.5° - 58.9°} = 40974\ \text{km}$$

Busteni, Romania

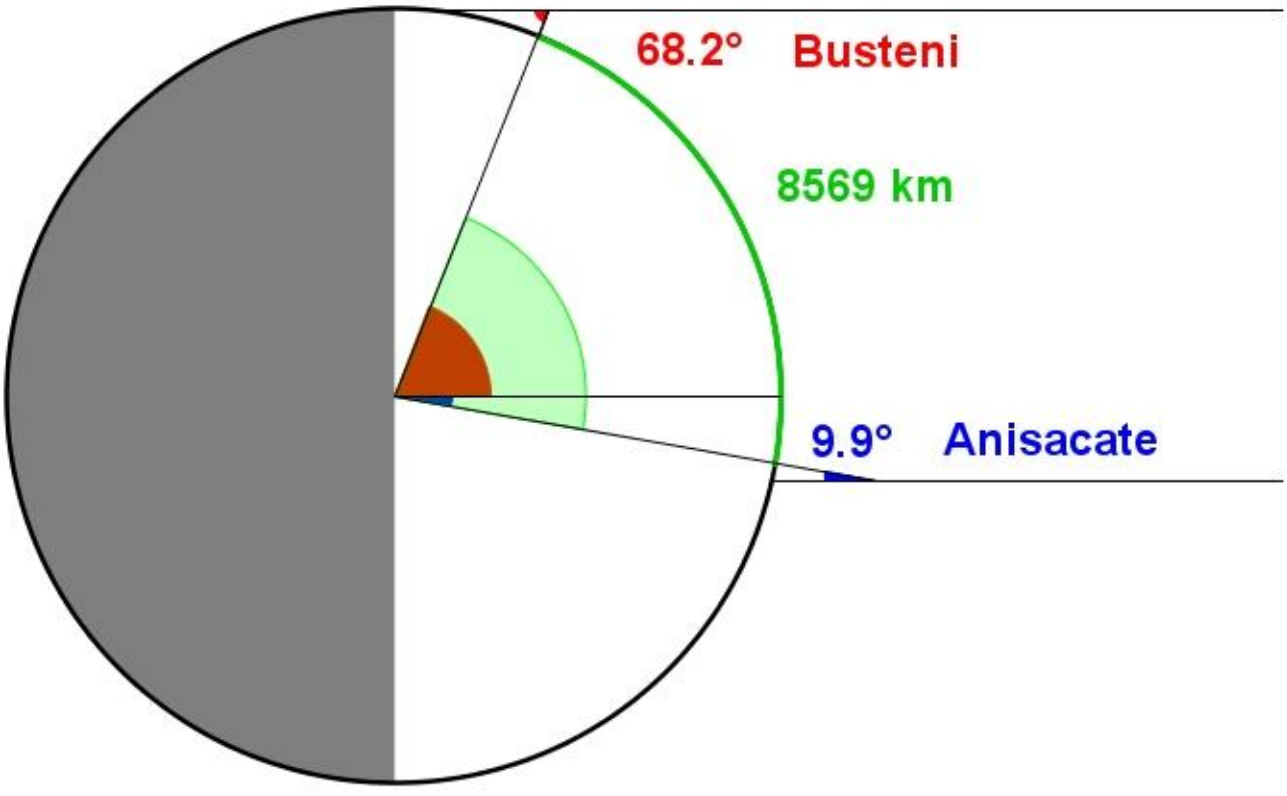
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535

Date	Gnomon	Shadow	Angle
11 January	40 cm	100 cm	68.2°

14 January 2016 (Busteni-ROMANIA 45.42)

11 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 8569\ \text{km}}{68.2° + 9.9°} = 39499\ \text{km}$$

Chania, Greece

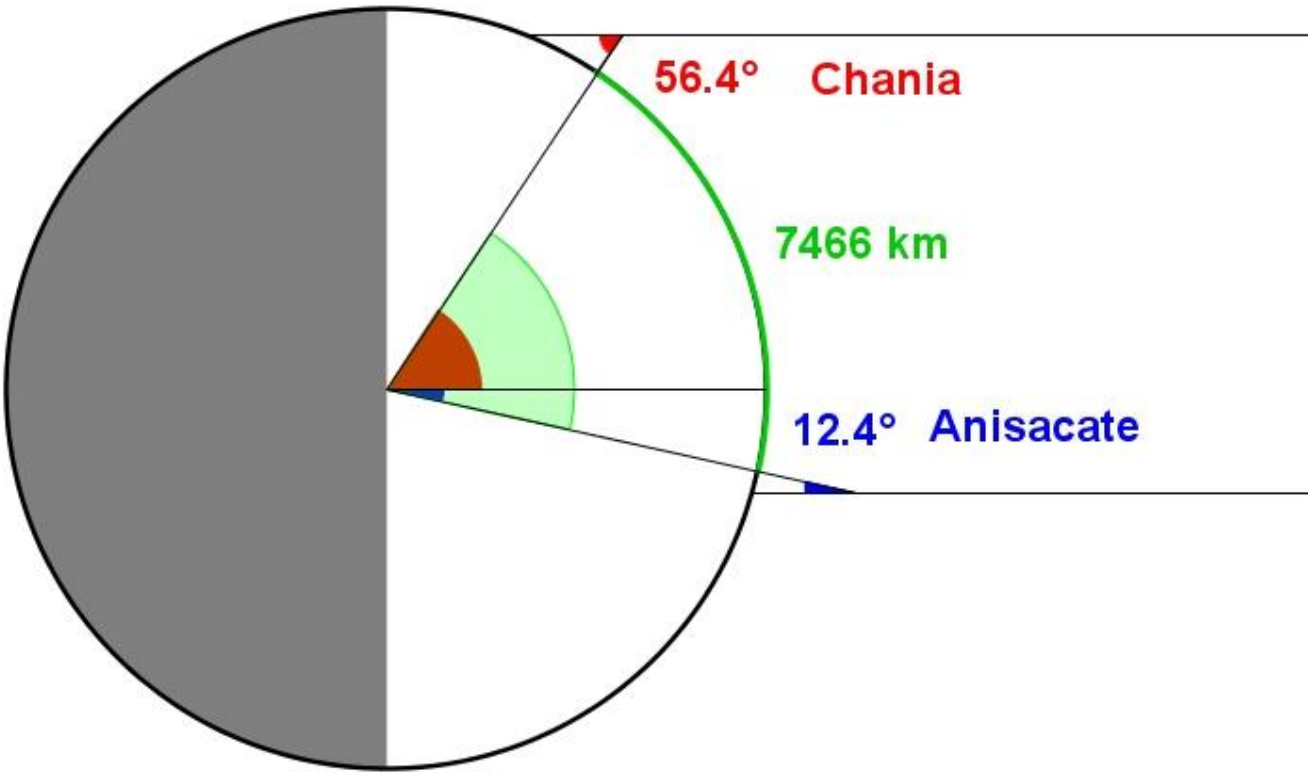
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Chania	Greece	Primary School DDMN	35.485	24.082

Date	Gnomon	Shadow	Angle
22 January	121 cm	-17.5 cm	56.4°

22 January 2016 (Chania-GREECE 35.49)

22 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7466\ \text{km}}{56.4° + 12.4°} = 39066\ \text{km}$$

Ioannina, Greece

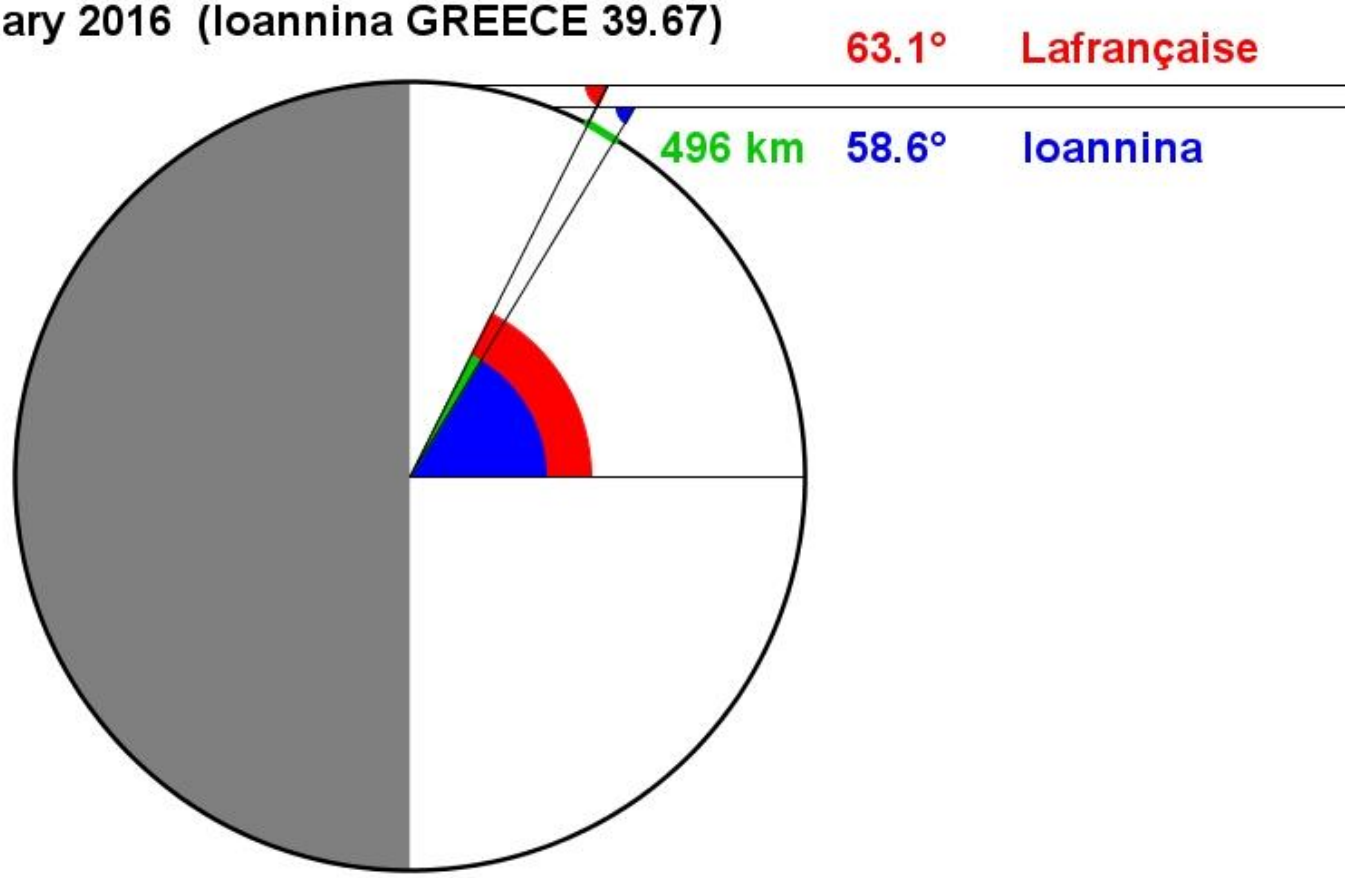
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ioannina	Greece	Experimental College	39.666	20.845

Date	Gnomon	Shadow	Angle
25 January	100 cm	164 cm	58.6°
26 January	100 cm	162.5 cm	58.4°

25 January 2016 (Lafrançaise-FRANCE 44.13)

25 January 2016 (Ioannina GREECE 39.67)



$$\text{circumference} = \frac{360° \times 496\ \text{km}}{63.1° - 58.6°} = 39680\ \text{km}$$

Krokos, Greece

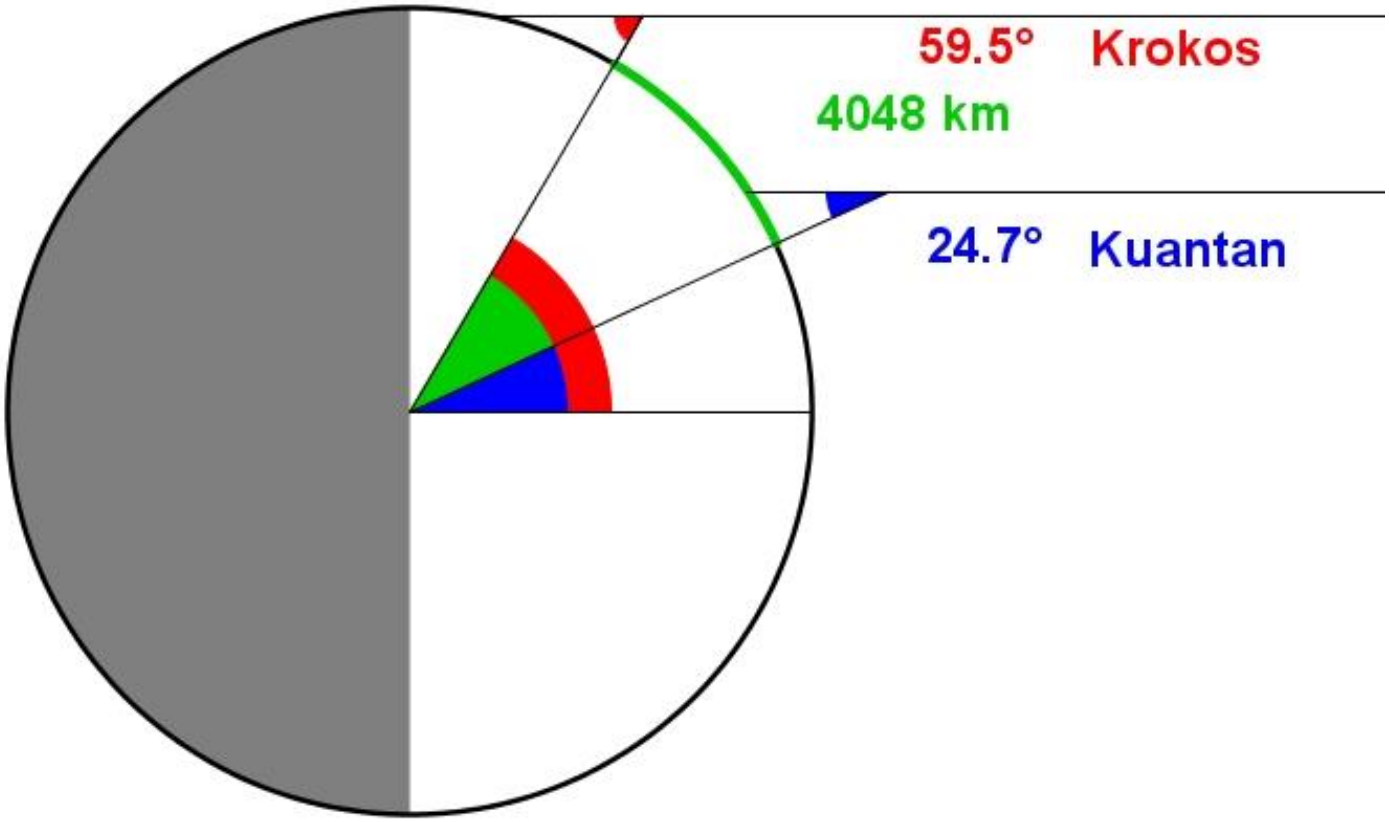
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Krokos	Greece	Junior High School of Krokos	40.265	21.815

Date	Gnomon	Shadow	Angle
28 January	100 cm	170 cm	59.5°

28 january 2016 (Krokos-GREECE) Latitude: 40.27°

28 january 2016 (Kuantan-MALAYSIA) Latitude: 3.83°



$$\text{circumference} = \frac{360° \times 4048\ \text{km}}{59.5° - 24.7°} = 41876\ \text{km}$$

Kuantan, Malaysia

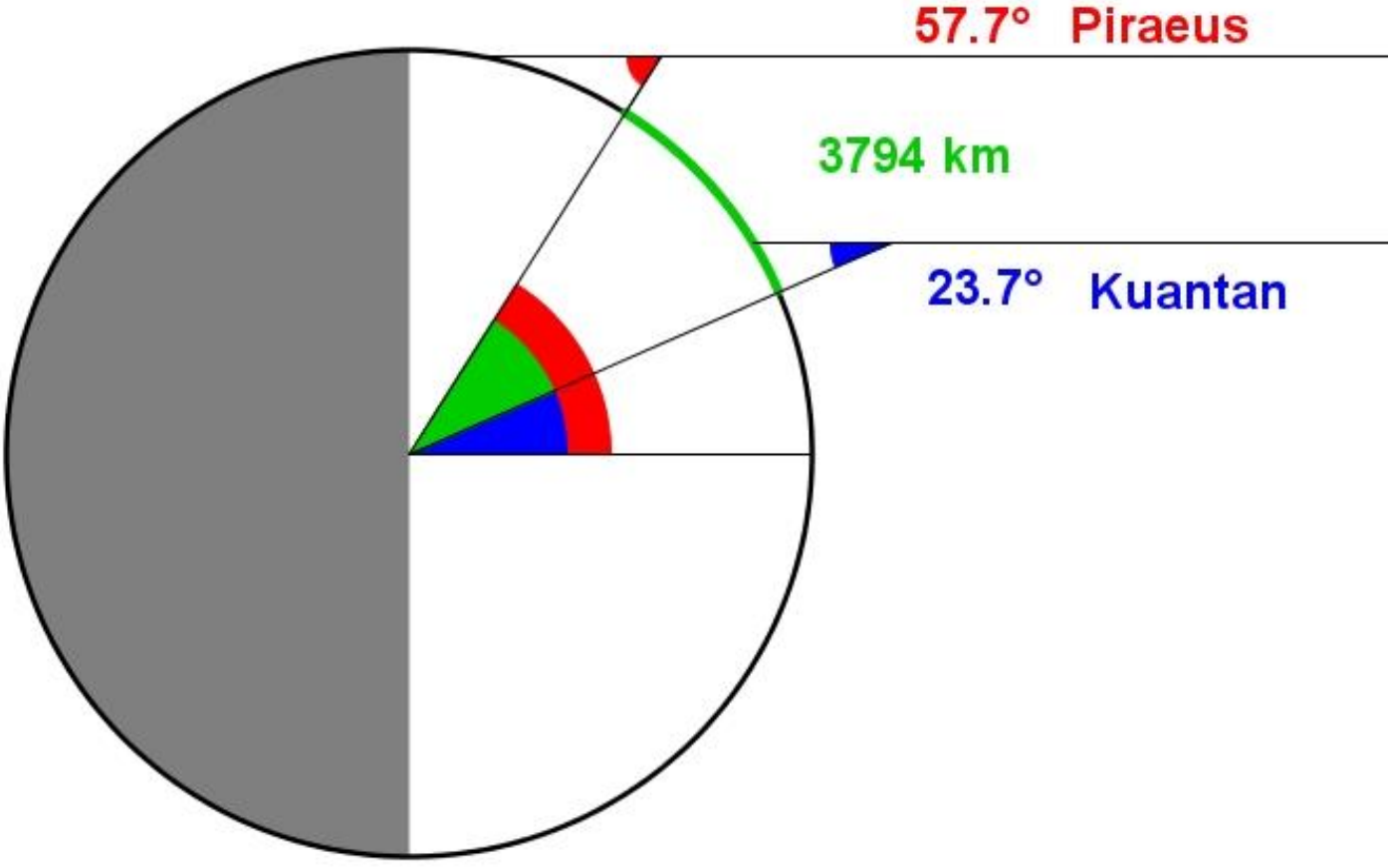
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kuantan	Malaysia	SMK St Thomas	3.817	103.333

Date	Gnomon	Shadow	Angle
27 January	59 cm	25.9 cm	23.7°
28 January	59 cm	27.1 cm	24.7°

27 january 2016 (Piraeus-GREECE) Latitude: 37.98°

27 january 2016 (Kuantan-MALAYSIA) Latitude: 3.83°



$$\text{circumference} = \frac{360° \times 3794\ \text{km}}{57.7° - 23.7°} = 40172\ \text{km}$$

Lafrançaise, France

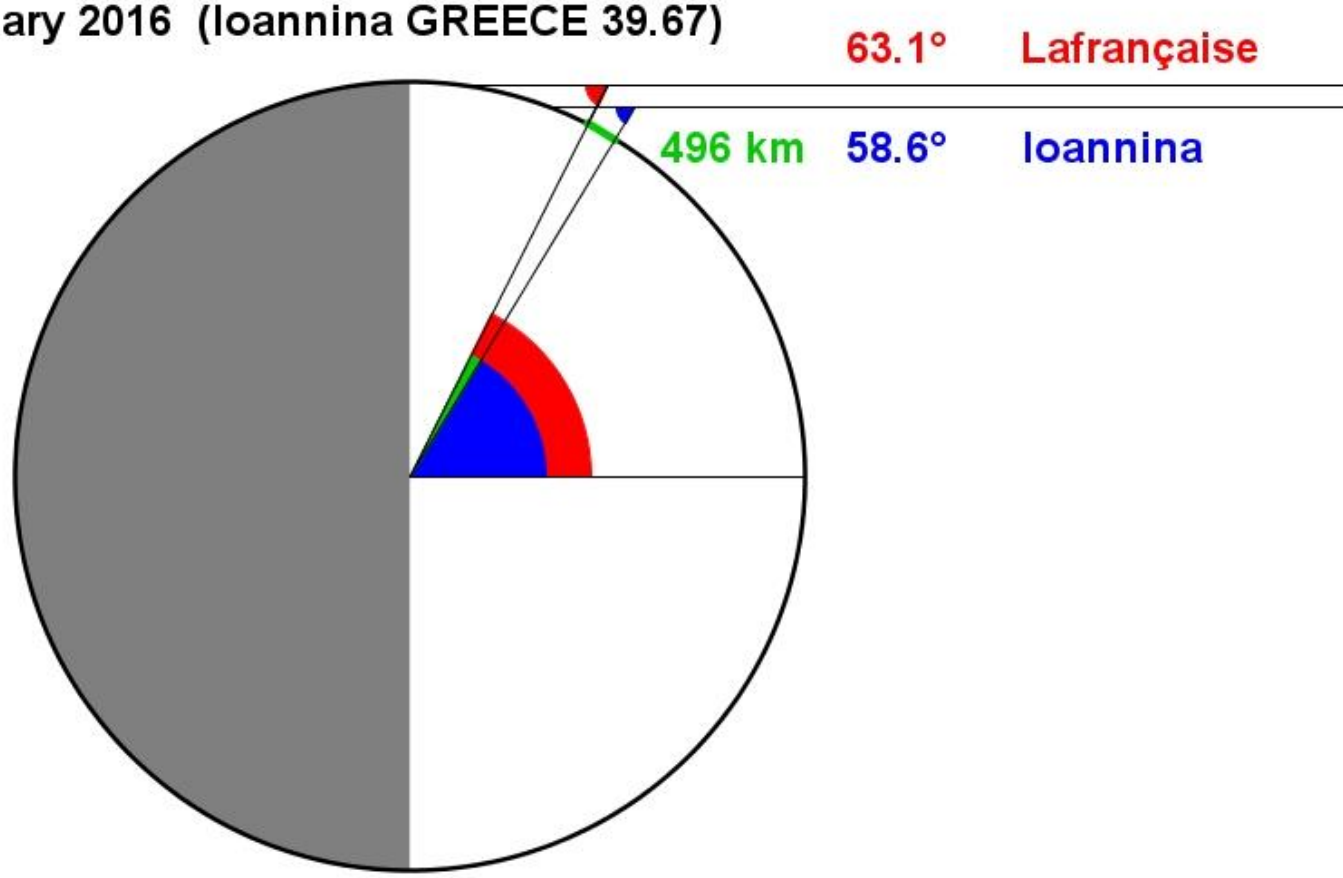
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237

Date	Gnomon	Shadow	Angle
25 January	100 cm	197 cm	63.1°

25 January 2016 (Lafrançaise-FRANCE 44.13)

25 January 2016 (Ioannina GREECE 39.67)



$$\text{circumference} = \frac{360° \times 496\ \text{km}}{63.1° - 58.6°} = 39680\ \text{km}$$

Mărgineni, Romania

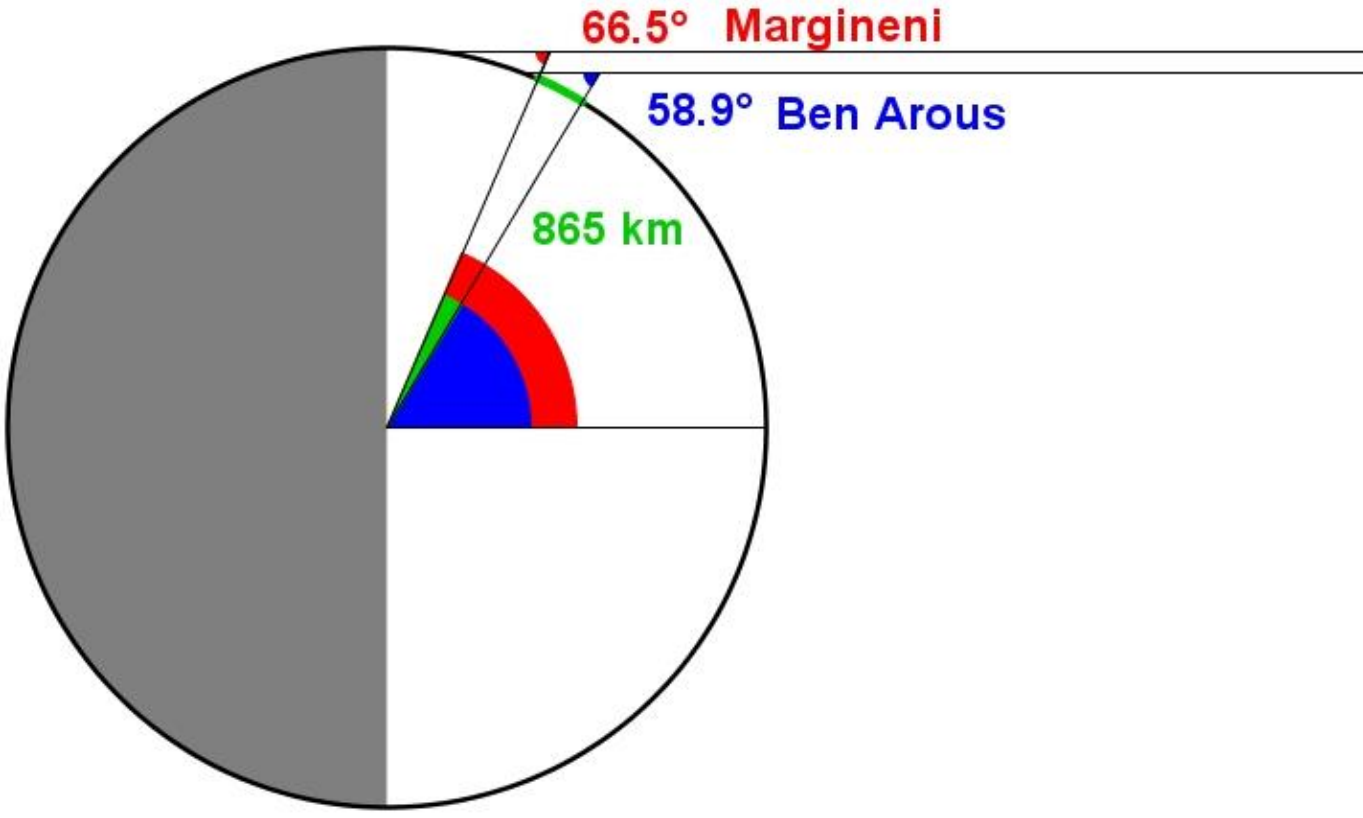
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554

Date	Gnomon	Shadow	Angle
20 January	100 cm	230 cm	66.5°

20 January 2016 (Margineni-ROMANIA 44.53)

20 January 2016 (Ben Arous TUNISIA 36.75)



$$\text{circumference} = \frac{360° \times 865\ \text{km}}{66.5° - 58.9°} = 40974\ \text{km}$$

Pastida, Greece

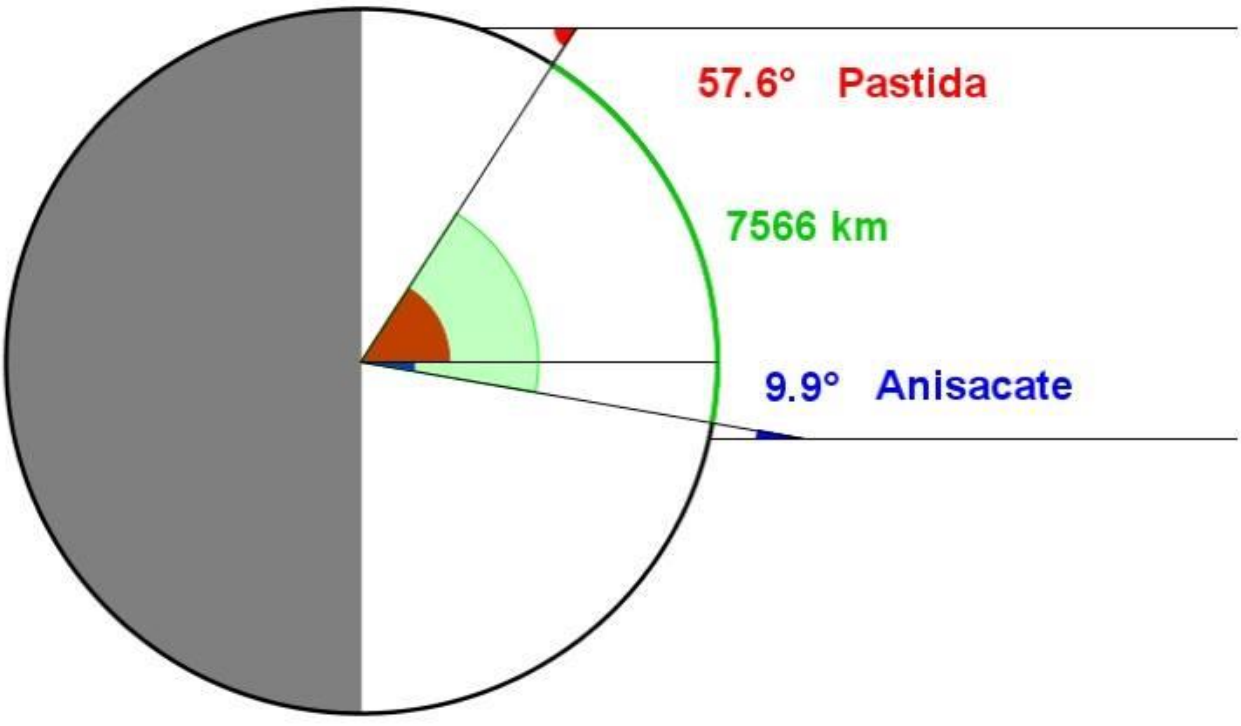
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Pastida	Greece	Primary School of Pastida	36.385	28.138

Date	Gnomon	Shadow	Angle
15 January	34.8 cm	58.8 cm	57.6°

15 January 2016 (Pastida-GREECE 36.39)

11 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7566\ \text{km}}{57.6° + 9.9°} = 40352\ \text{km}$$

Petroupoli, Greece

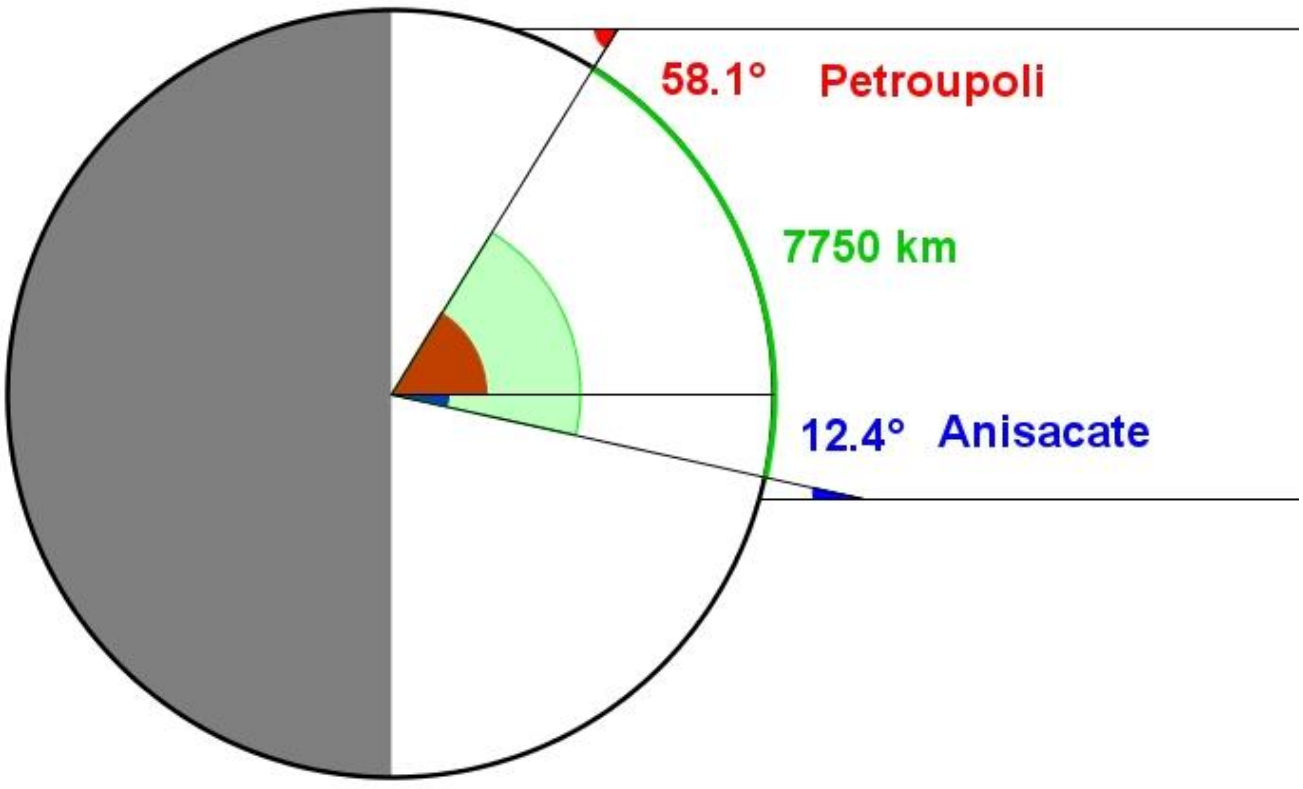
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Petroupoli	Greece	4o Junior High School	38.036	23.674

Date	Gnomon	Shadow	Angle
21 January	100 cm	160.5 cm	58.1°

21 January 2016 (Petroupoli-GREECE 38.04)

22 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7750\ \text{km}}{58.1° + 12.4°} = 39574\ \text{km}$$

Piraeus, Greece

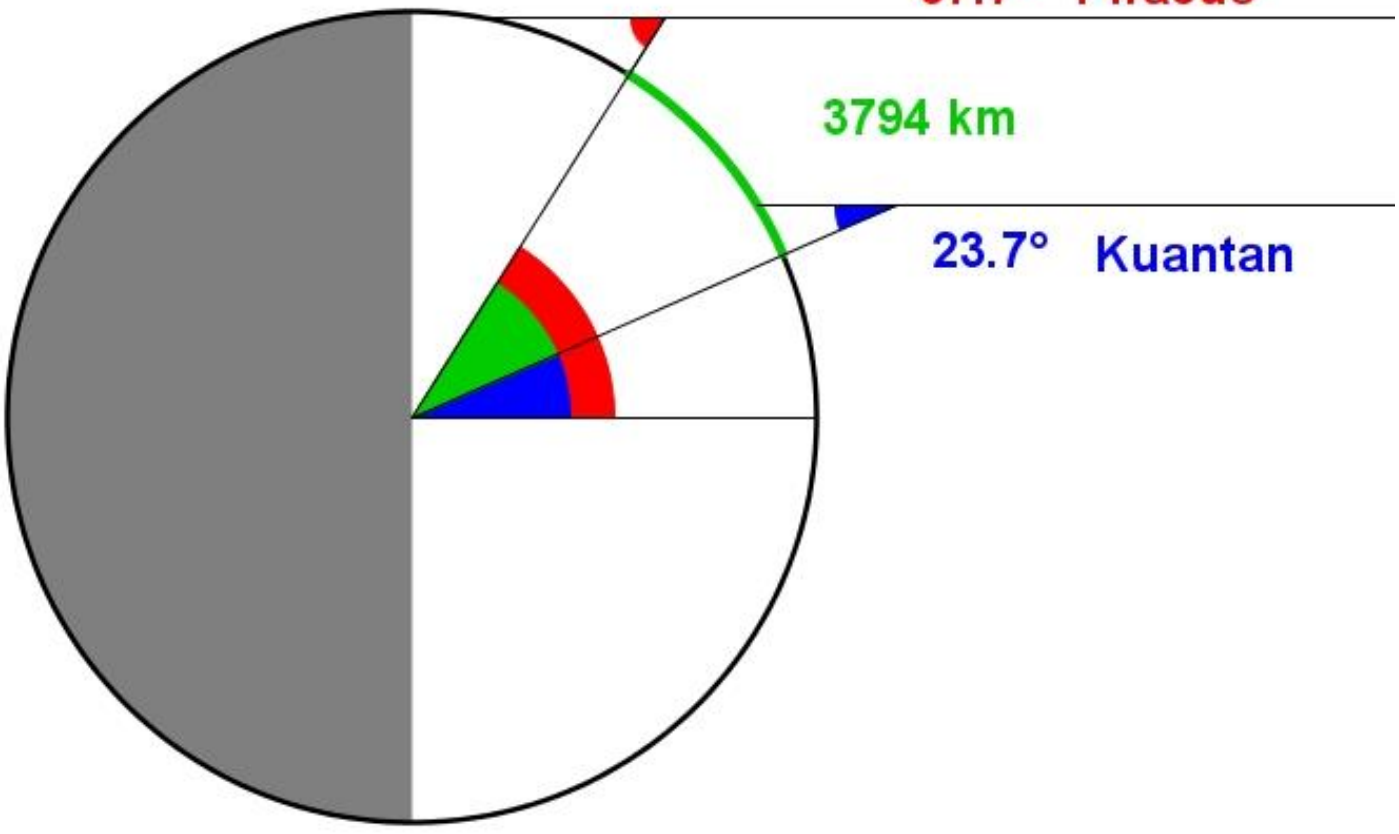
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655

Date	Gnomon	Shadow	Angle
27 January	100 cm	158 cm	57.7°

27 january 2016 (Piraeus-GREECE) Latitude: 37.98°

27 january 2016 (Kuantan-MALAYSIA) Latitude: 3.83°



$$\text{circumference} = \frac{360° \times 3794\ \text{km}}{57.7° - 23.7°} = 40172\ \text{km}$$

Sfax, Tunisia

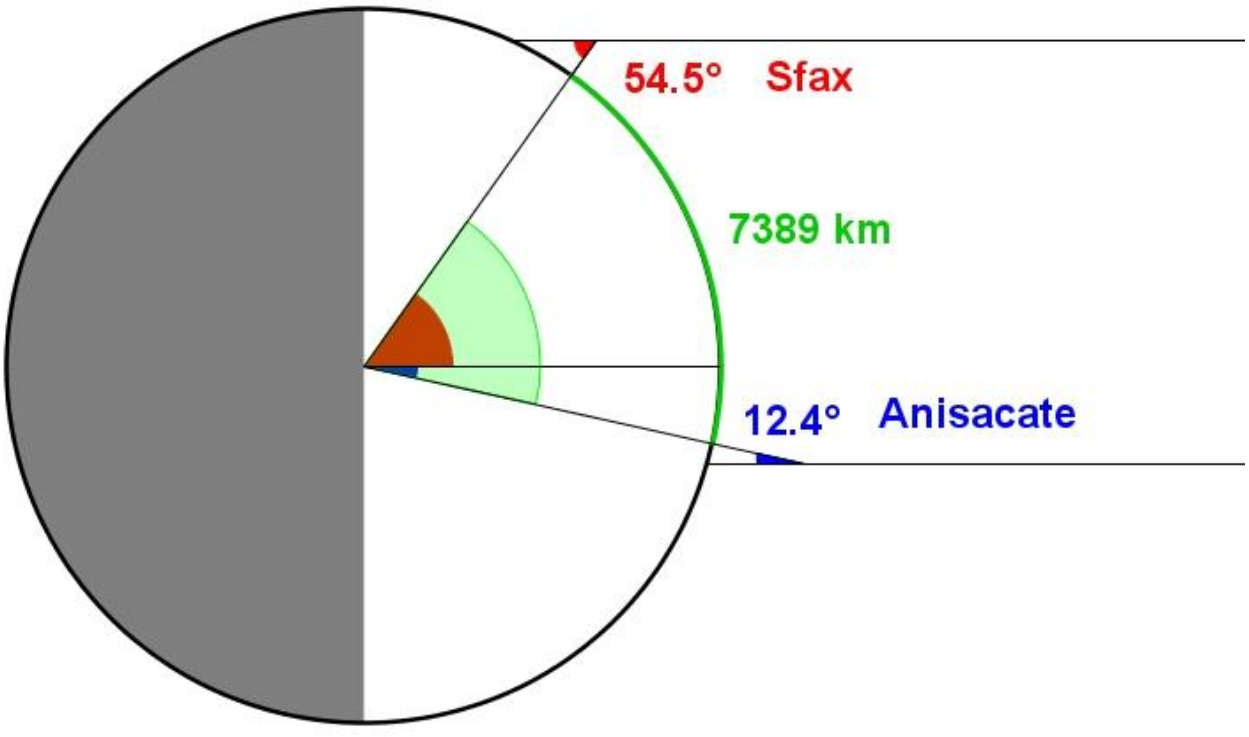
January 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780

Date	Gnomon	Shadow	Angle
23 January	100 cm	140 cm	54.5°

23 January 2016 (Sfax-TUNISIA 34.79)

23 January 2016 (Anisacate-ARGENTINA - 31.72)



$$\text{circumference} = \frac{360° \times 7389\ \text{km}}{54.5° + 12.4°} = 39761\ \text{km}$$