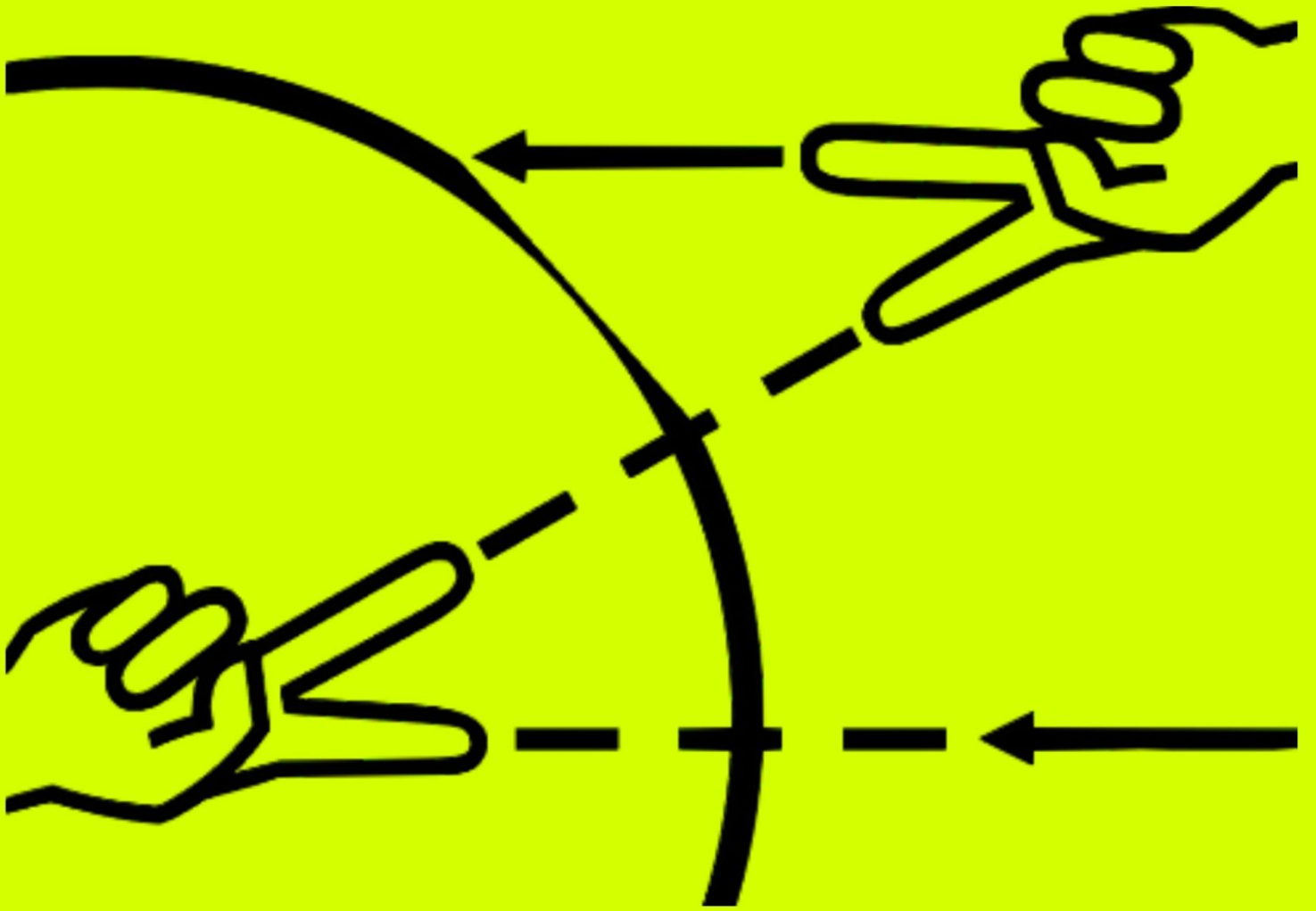


Eratosthenes



April 2017

4 Continents

10 Countries

28 Schools

72 Measures

ARGENTINA (1)

Anisacate

BRAZIL (3)

Piranguinho, Rio de Janeiro (2)

CROATIA (1)

Brštanovo

COLOMBIA (4)

Guarne, Medellín (3)

FRANCE (1)

Lafrançaise

GREECE (11)

Aigio, Dimini, Ilion, Ioannina, Larissa,
Neochori, Petroupoli, Piraeus, Rhodes,
Tsaritsani, Volos

ITALY (2)

Marina di Carrara, Merlara

PAKISTAN (1)

Bahawalpur

ROMANIA (3)

Busteni, Mărgineni, Râmnicu Vâlcea

TUNISIA (1)


Sfax

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400
	Bahawalpur	Pakistan	Saint Peter's High School	29.389	71.666
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535
	Dimini	Greece	2nd Junior High School of Korydallos	39.355	22.835
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449
	Ilion	Greece	11th Junior High School of Ilion	38.033	23.697
	Ioannina	Greece	Experimental College	39.666	20.845
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237
	Larissa	Greece	Diachronic museum of Larissa, 4 JHS Petroupoli	39.618	22.394
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031
	Medellín	Colombia	Colegiatura de Antioquia	6.209	-75.546
	Medellín	Colombia	I.E. el Corazón	6.247	-75.629
	Medellín	Colombia	I.E. Javiera Londoño	6.249	-75.560
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.166	11.433
	Neochori	Greece	CERN 2nd JHS of Korydallos	39.305	23.218
	Petroupoli	Greece	4o Junior High School	38.036	23.674
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535
	Râmnicu Vâlcea	Romania	S.G. Nr4 Gradinita Dumbrava Minuata	45.093	24.358
	Rhodes	Greece	2o Experimental Primary School of Rhodes	36.449	28.221
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317
	Rio de Janeiro	Brazil	Escola Municipal Bento Ribeiro, Méier	-22.904	-43.280
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780
	Tsaritsani	Greece	eco group of 4th JHS Petroupoli	39.880	22.229
	Volos	Greece	Athanasakeio Archaiological museum	39.352	22.961

Aigio, Greece

April 2017

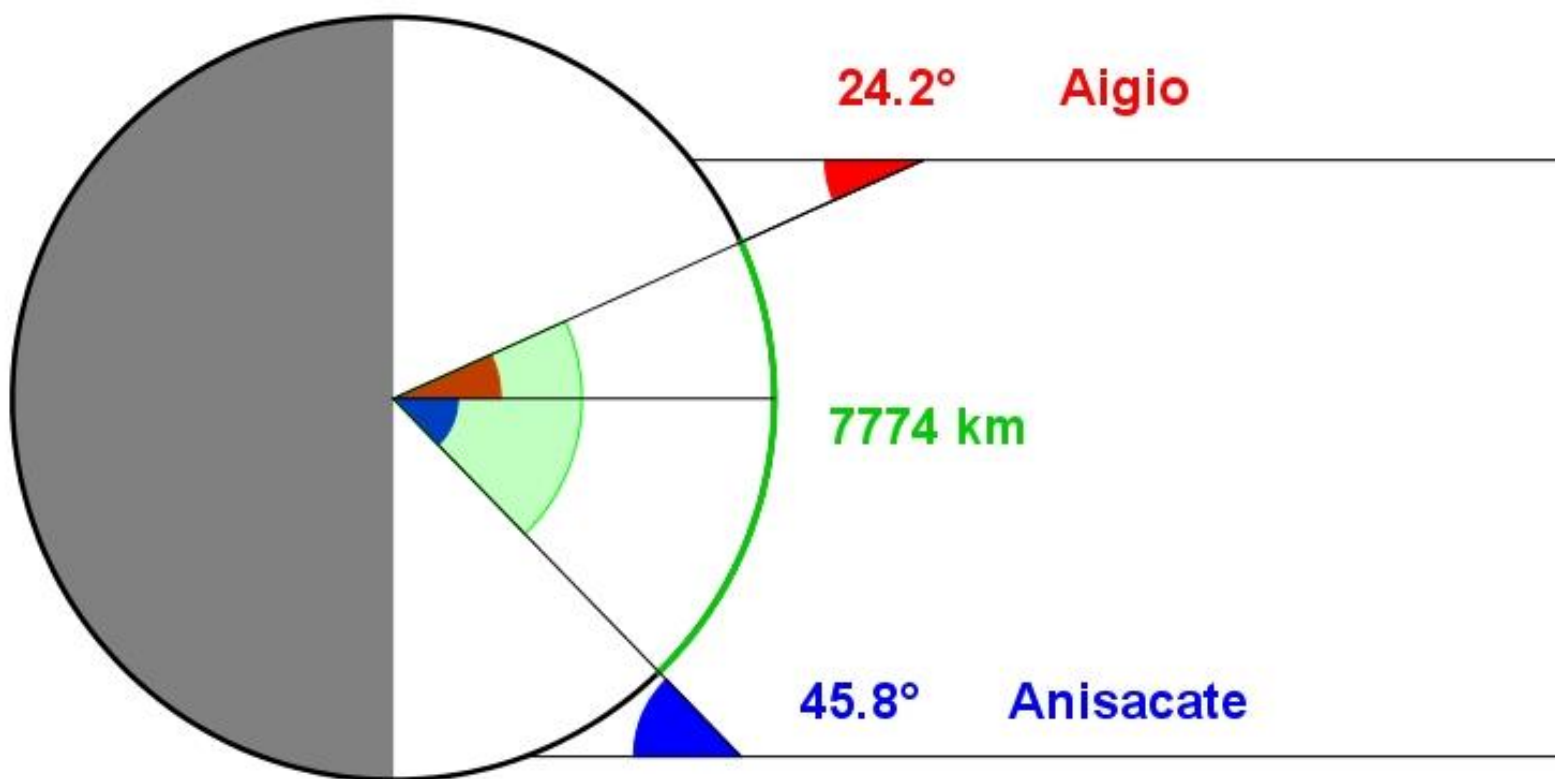


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079

Date	Gnomon	Shadow	Angle
04 April	50 cm	31.6 cm	32.3 °
25 April	50 cm	23 cm	24.7 °
28 April	50 cm	22.5 cm	24.2 °

28 April 2017 (Aigio-GREECE) Latitude: 38.252 °

28 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7774 \text{ km}}{24.2^\circ + 45.8^\circ} = 39981 \text{ km}$$



Anisacate, Argentina

April 2017

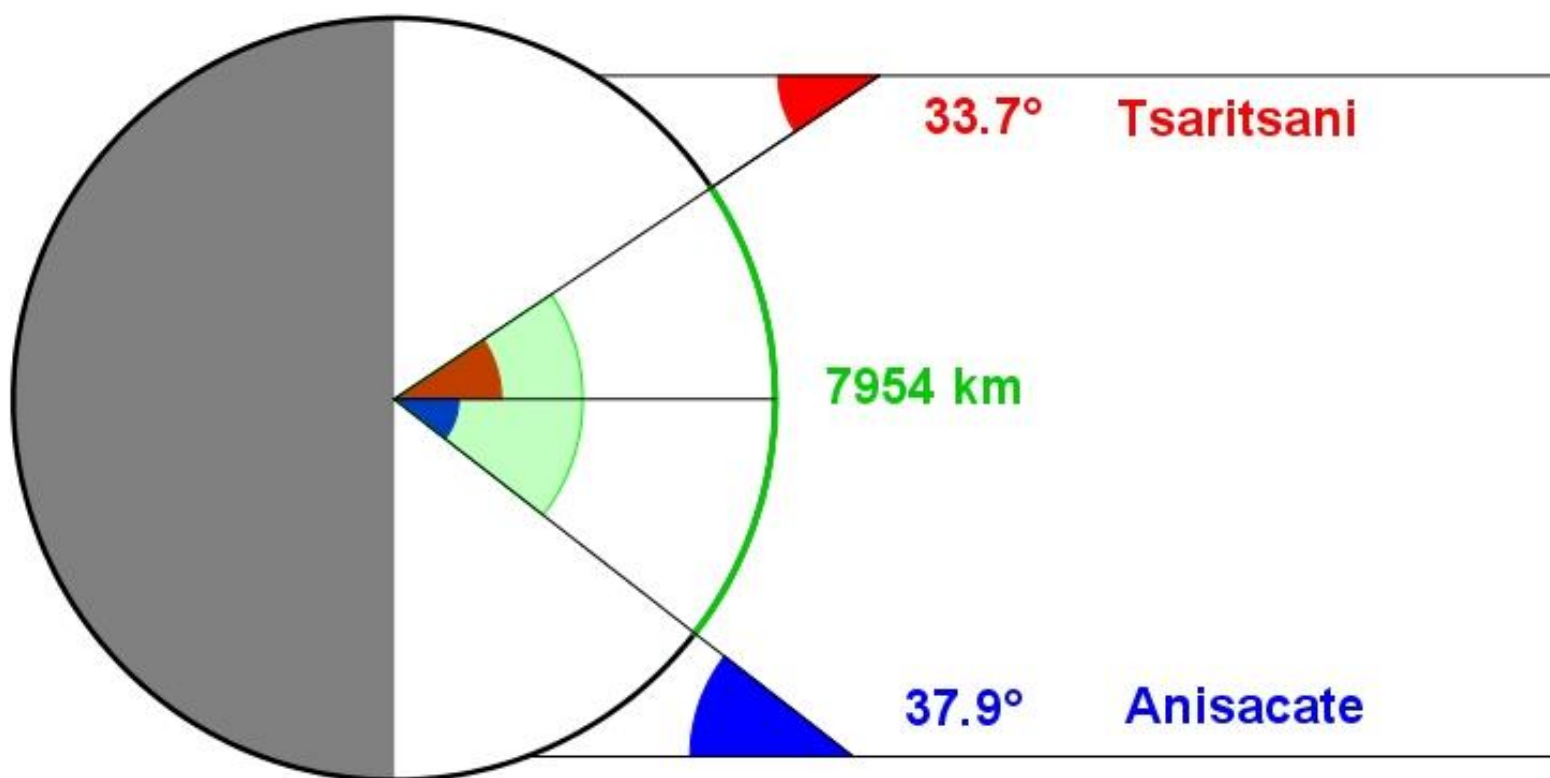


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400

Date	Gnomon	Shadow	Angle
05 April	100 cm	-77.8 cm	-37.9 °
06 April	100 cm	-78.8 cm	-38.2 °
07 April	100 cm	-80 cm	-38.7 °
10 April	100 cm	-83.2 cm	-39.8 °
11 April	100 cm	-84.2 cm	-40.1 °
20 April	100 cm	-93.5 cm	-43.1 °
26 April	100 cm	-100.5 cm	-45.1 °
27 April	100 cm	-101.5 cm	-45.4 °
28 April	100 cm	-102.7 cm	-45.8 °

05 April 2017 (Tsaritsani-ROMANIA) Latitude: 39.88 °

05 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7954 \text{ km}}{33.7^\circ + 37.9^\circ} = 39992 \text{ km}$$



Bahawalpur SPHS, Pakistan

April 2017

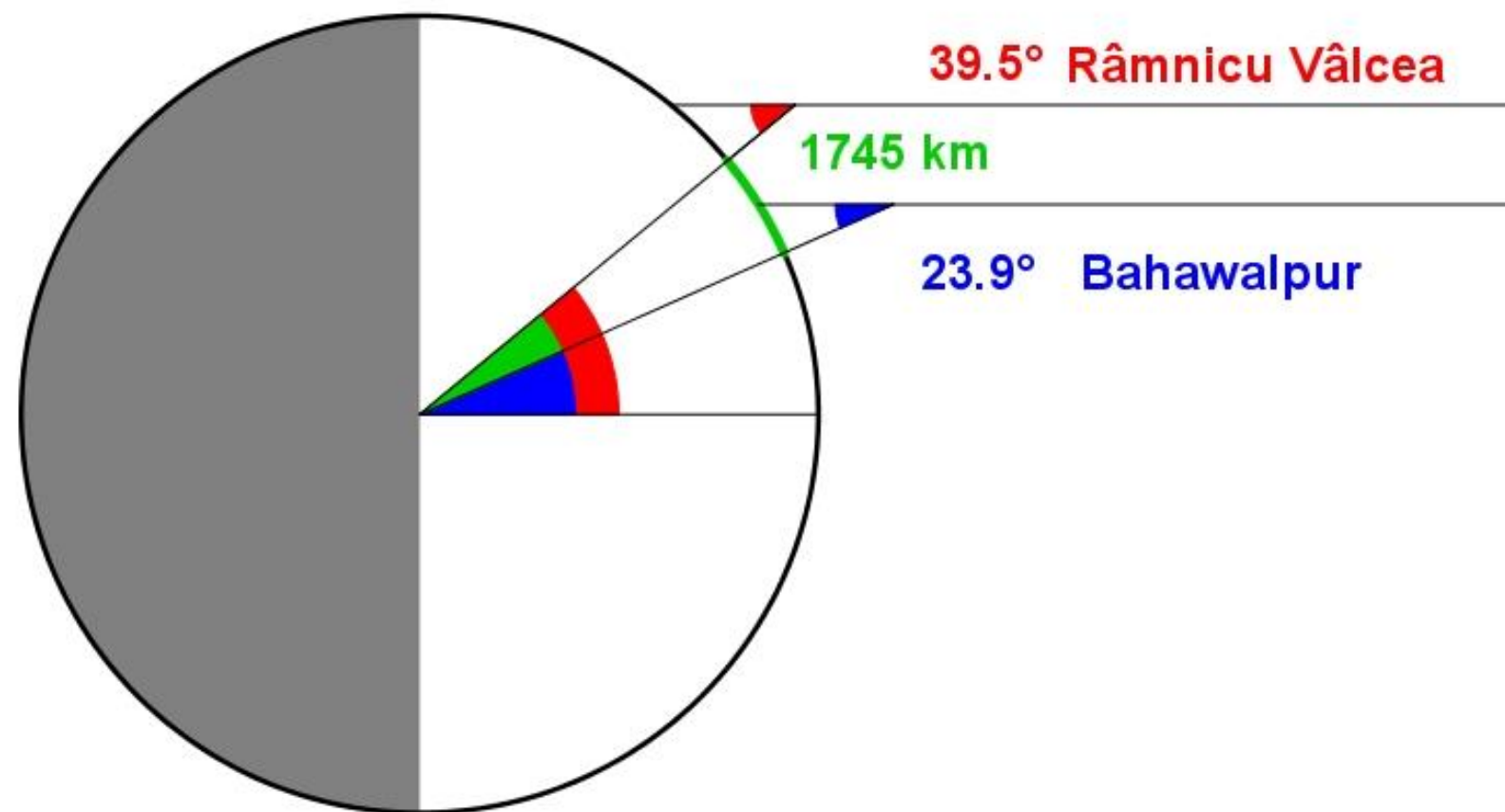


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Bahawalpur	Pakistan	Saint Peter's High School	29.389	71.666

Date	Gnomon	Shadow	Angle
03 April	90 cm	39.9 cm	23.9 °

03 April 2017 (Râmnicu Vâlcea-ROMANIA) Latitude: 45.093°

03 April 2017 (Bahawalpur-PAKISTAN) Latitude: 29.389°



$$\text{circumference} = \frac{360^\circ \times 1745 \text{ km}}{39.5^\circ - 23.9^\circ} = 40269 \text{ km}$$



Brštanovo, Croatia

April 2017

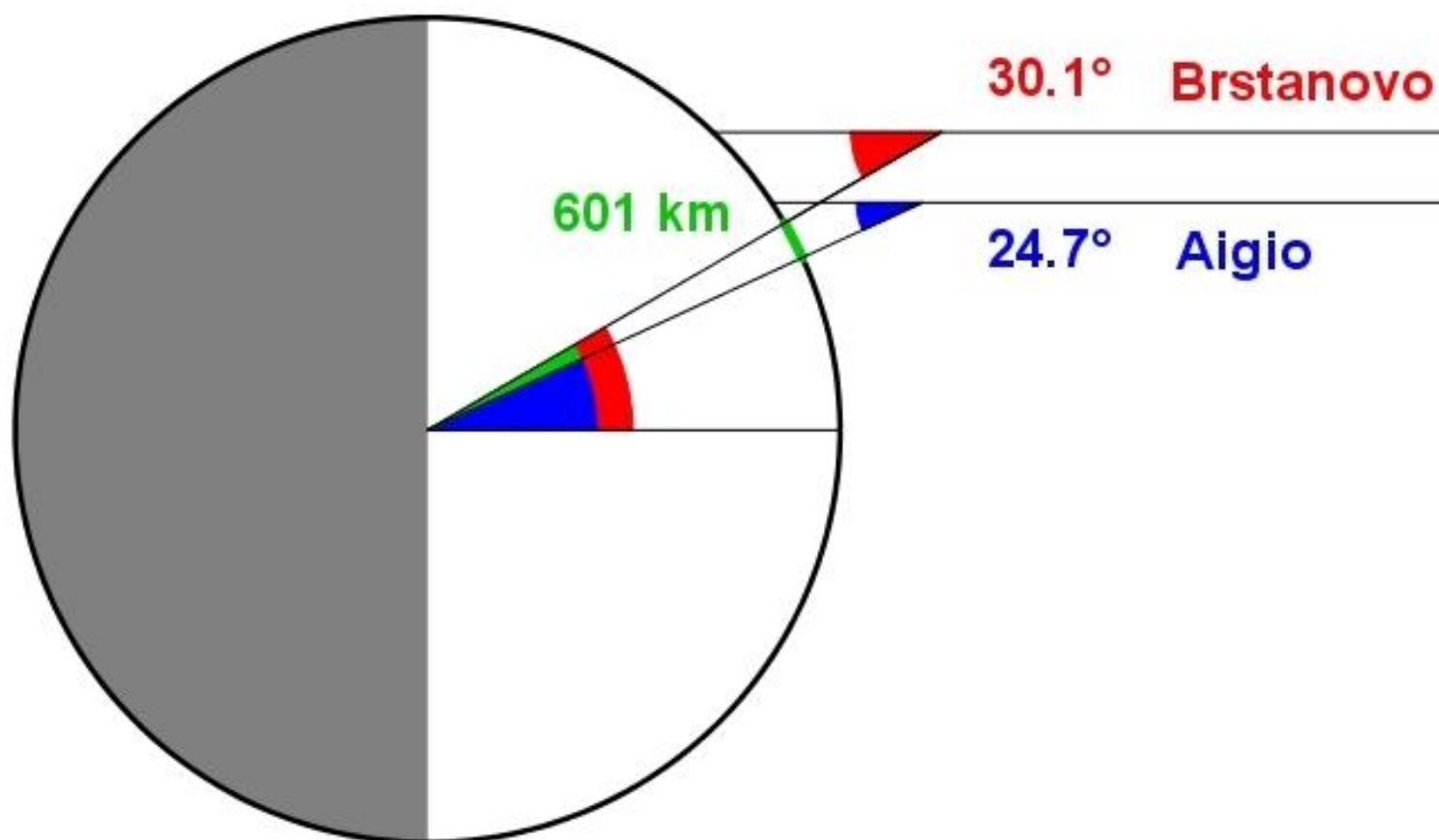


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415

Date	Gnomon	Shadow	Angle
12 April	100 cm	69 cm	34.6 °
25 April	100 cm	58 cm	30.1 °
26 April	100 cm	57 cm	29.7 °

25 April 2017 (Brstanovo-CROATIA) Latitude: 43.658

25 April 2017 (Aigio-GREECE) Latitude: 38.252




$$\text{circumference} = \frac{360^\circ \times 601 \text{ km}}{30.1^\circ - 24.7^\circ} = 40067 \text{ km}$$



Busteni, Romania

April 2017

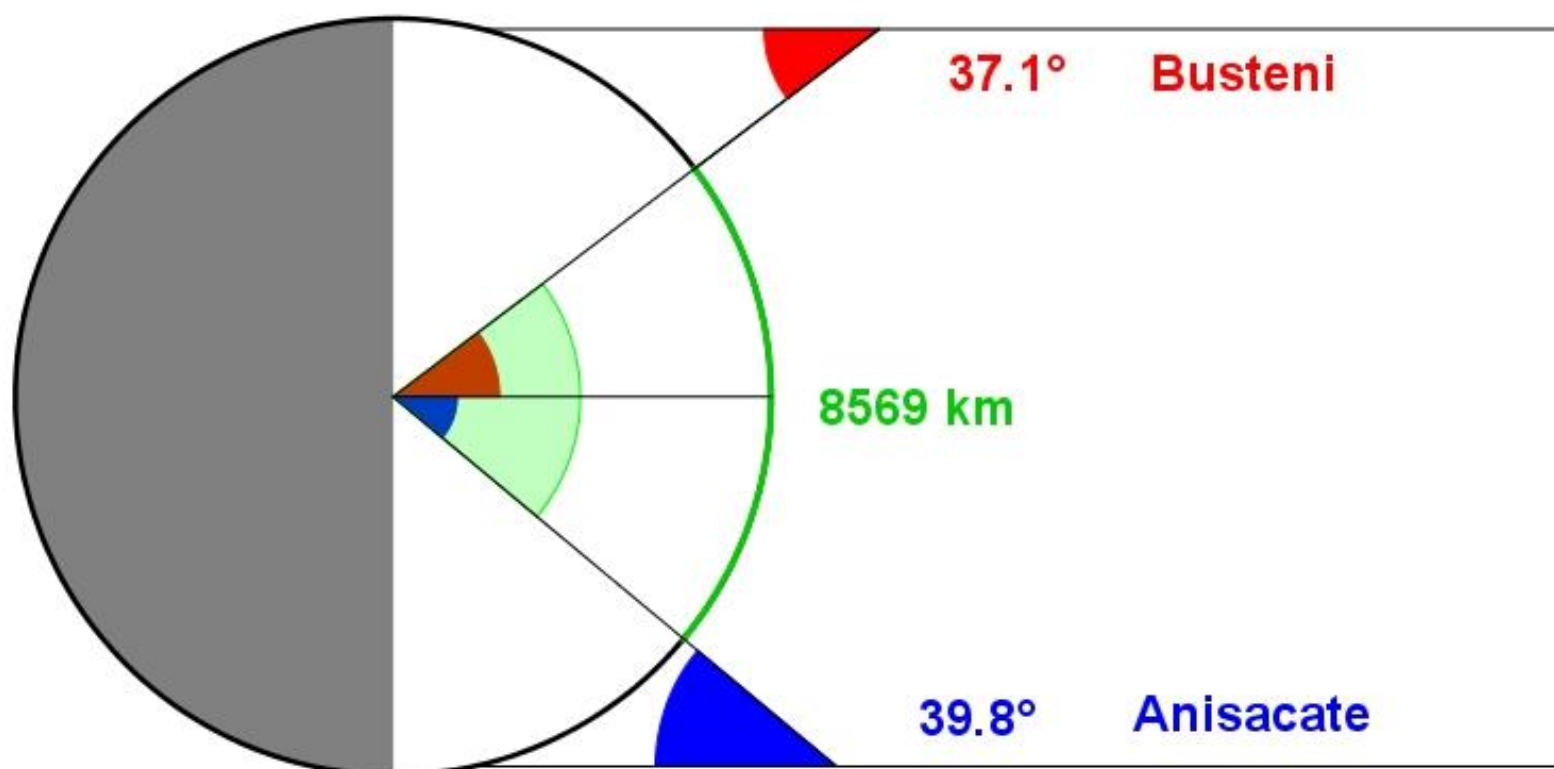


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535

Date	Gnomon	Shadow	Angle
03 April	21 cm	17.5 cm	39.8 °
05 April	111 cm	90 cm	39 °
10 April	79.3 cm	60 cm	37.1 °
11 April	100 cm	74.5 cm	36.7 °
12 April	95 cm	70 cm	36.4 °
13 April	96.3 cm	70 cm	36 °

10 April 2017 (Busteni-ROMANIA) Latitude: 45.416 °

10 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8569 \text{ km}}{37.1^\circ + 39.8^\circ} = 40115 \text{ km}$$



Dimini, Greece

April 2017

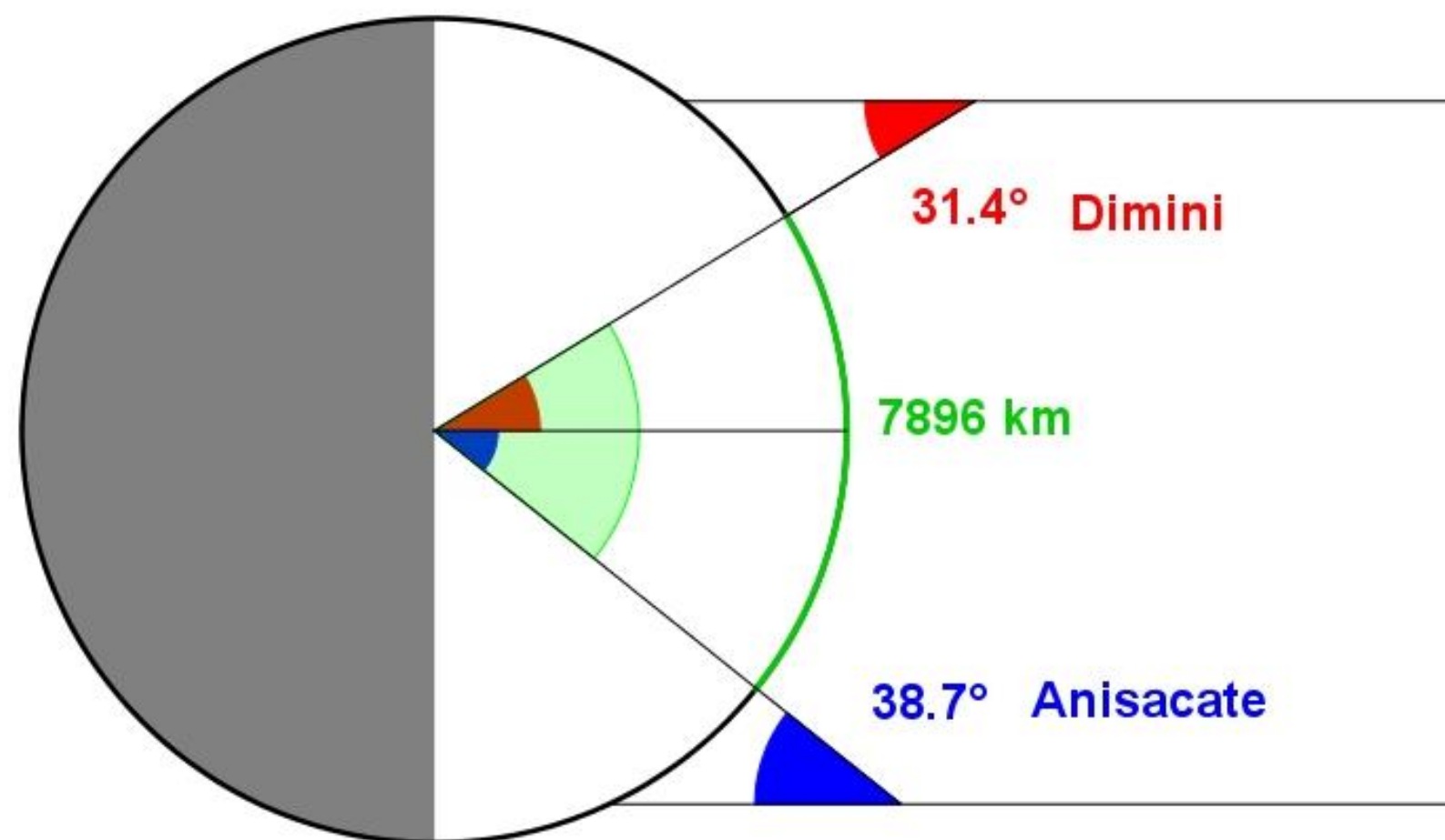


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Dimini	Greece	2nd Junior High School of Korydallos	39.355	22.835

Date	Gnomon	Shadow	Angle
08 April	100 cm	61 cm	31.4 °

08 April 2017 (Dimini-GREECE) Latitude: 39.355 °

07 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7896 \text{ km}}{31.4^\circ + 38.7^\circ} = 40550 \text{ km}$$



Guarne, Colombia

April 2017

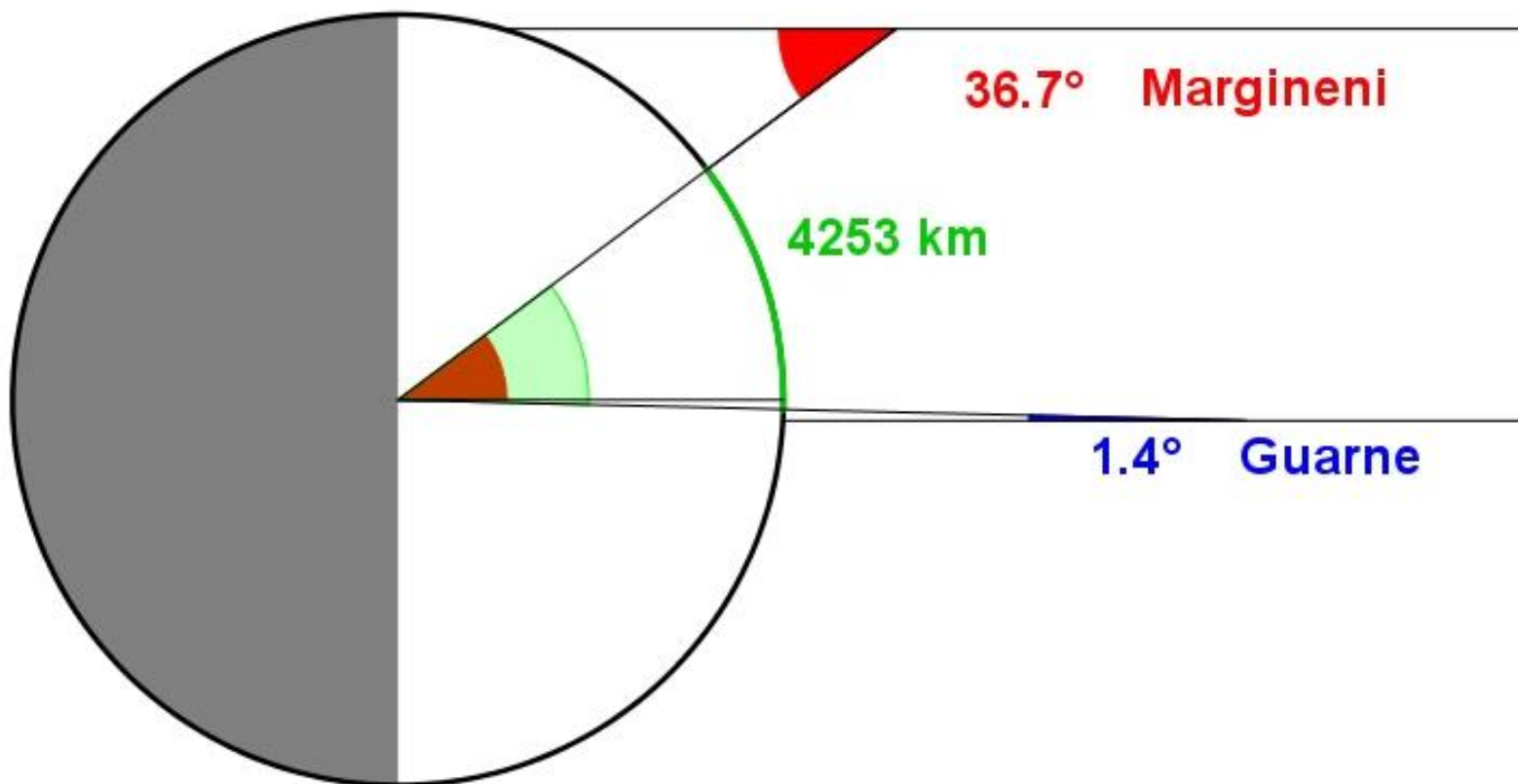


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449

Date	Gnomon	Shadow	Angle
01 April	67.4 cm	2.5 cm	2.1 °
02 April	67.4 cm	2.3 cm	2.0 °
04 April	67.4 cm	1.0 cm	0.9 °
12 April	67.4 cm	-1.7 cm	-1.4 °
13 April	67.4 cm	-3.4 cm	-2,8 °
25 April	67.4 cm	-7.6 cm	-6.4 °
27 April	67.4 cm	-8.1 cm	-6.9 °
28 April	67.4 cm	-8.8 cm	-7.4 °

12 April 2017 (Margineni-ROMANIA) Latitude: 44.553 °

12 April 2017 (Guarne-COLOMBIA) Latitude: 6.274 °



$$\text{circumference} = \frac{360^\circ \times 4253 \text{ km}}{36.7^\circ + 1.4^\circ} = 40186 \text{ km}$$



Ilion, Greece

April 2017

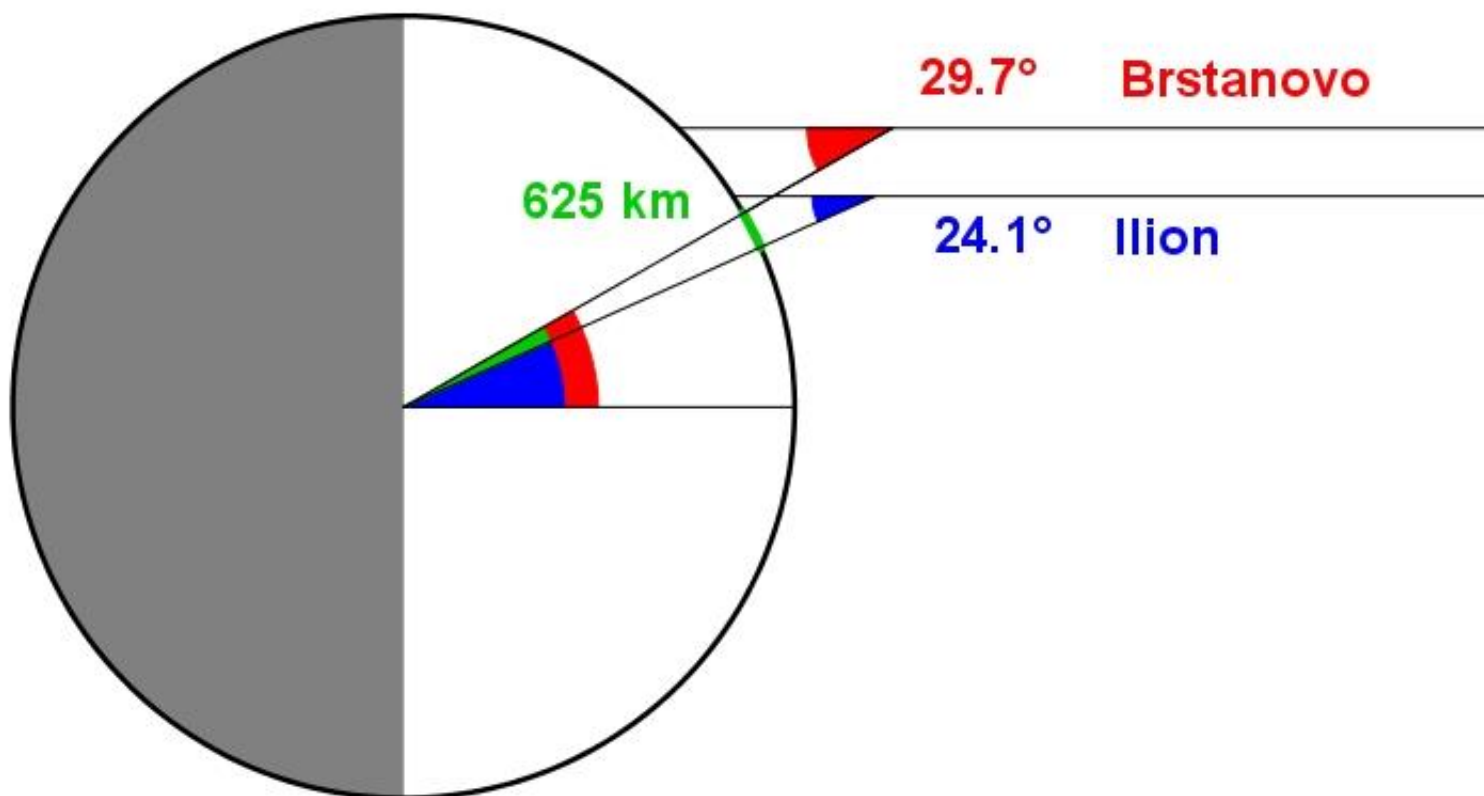


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ilion	Greece	11th Junior High School of Ilion	38.033	23.697

Date	Gnomon	Shadow	Angle
26 April	30.4 cm	13.6 cm	24.1 °

26 April 2017 (Brstanovo-CROATIA) Latitude: 43.658

26 April 2017 (Ilion-GREECE) Latitude: 38.033




$$\text{circumference} = \frac{360^\circ \times 625 \text{ km}}{29.7^\circ - 24.1^\circ} = 40179 \text{ km}$$



Ioannina, Greece

March 2017

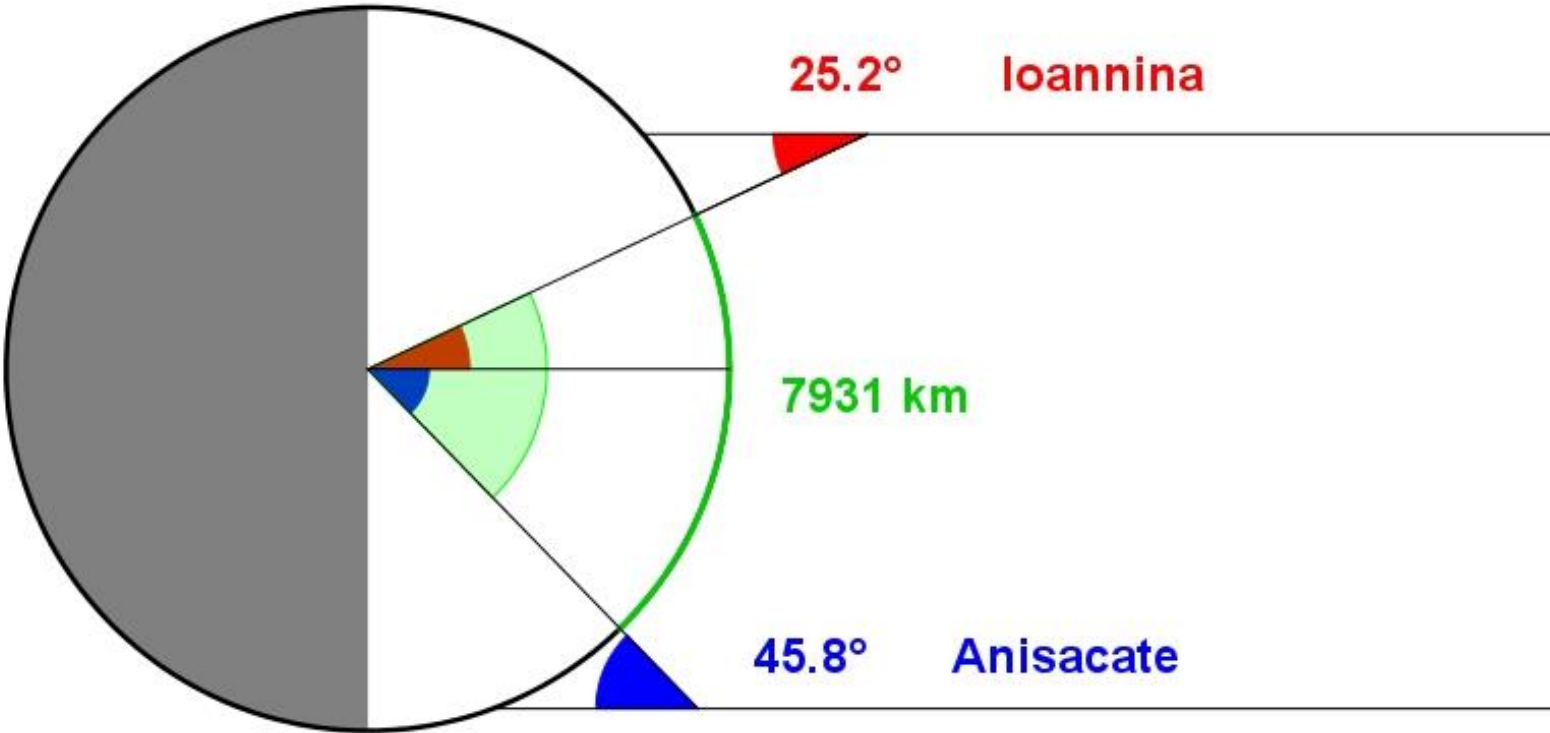


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ioannina	Greece	Experimental College	39.666	20.845

Date	Gnomon	Shadow	Angle
28 April	100 cm	47 cm	25.2 °

28 April 2017 (Ioannina-GREECE) Latitude: 39.667 °

28 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7931 \text{ km}}{25.2^\circ + 45.8^\circ} = 40214 \text{ km}$$



Lafrançaise, France

April 2017

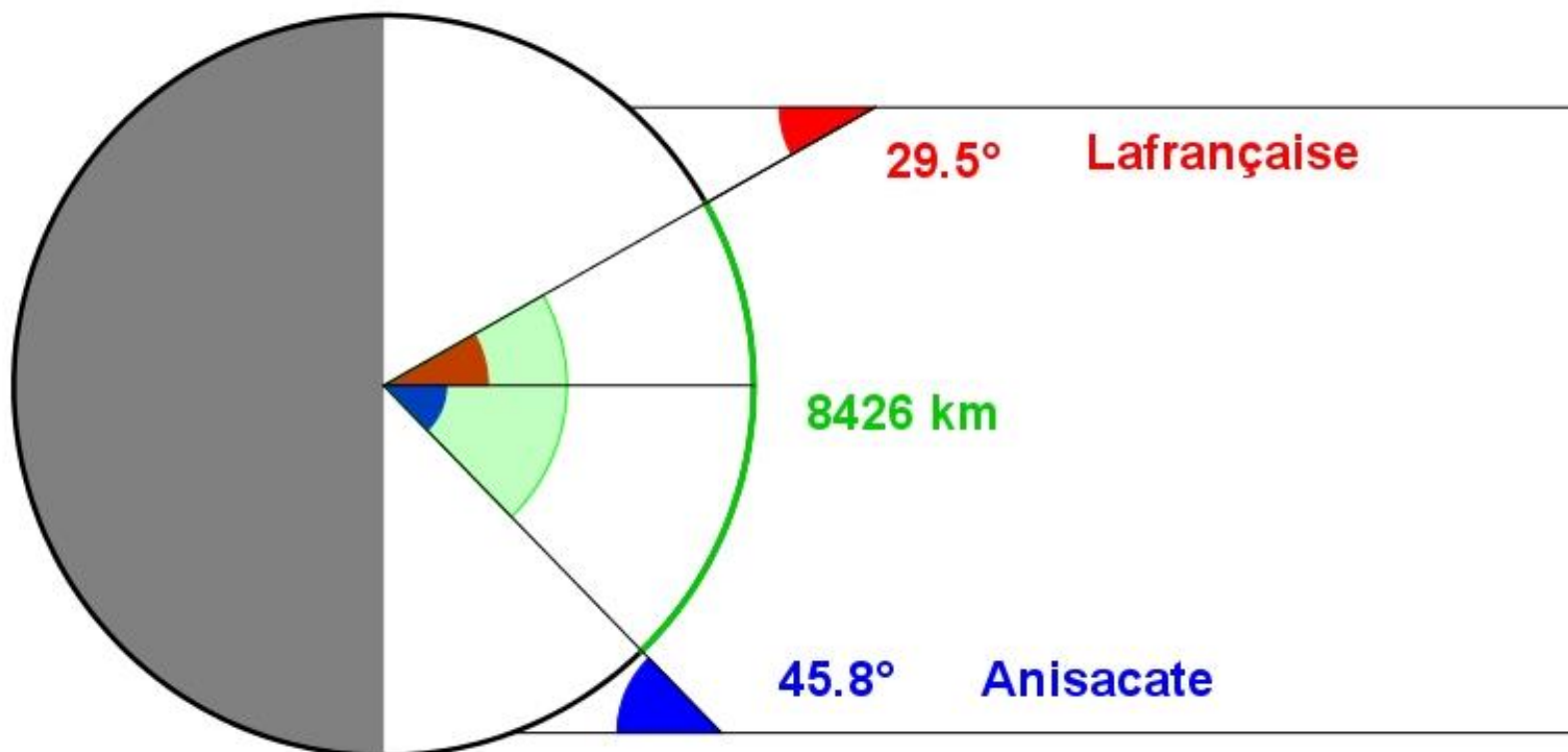


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237

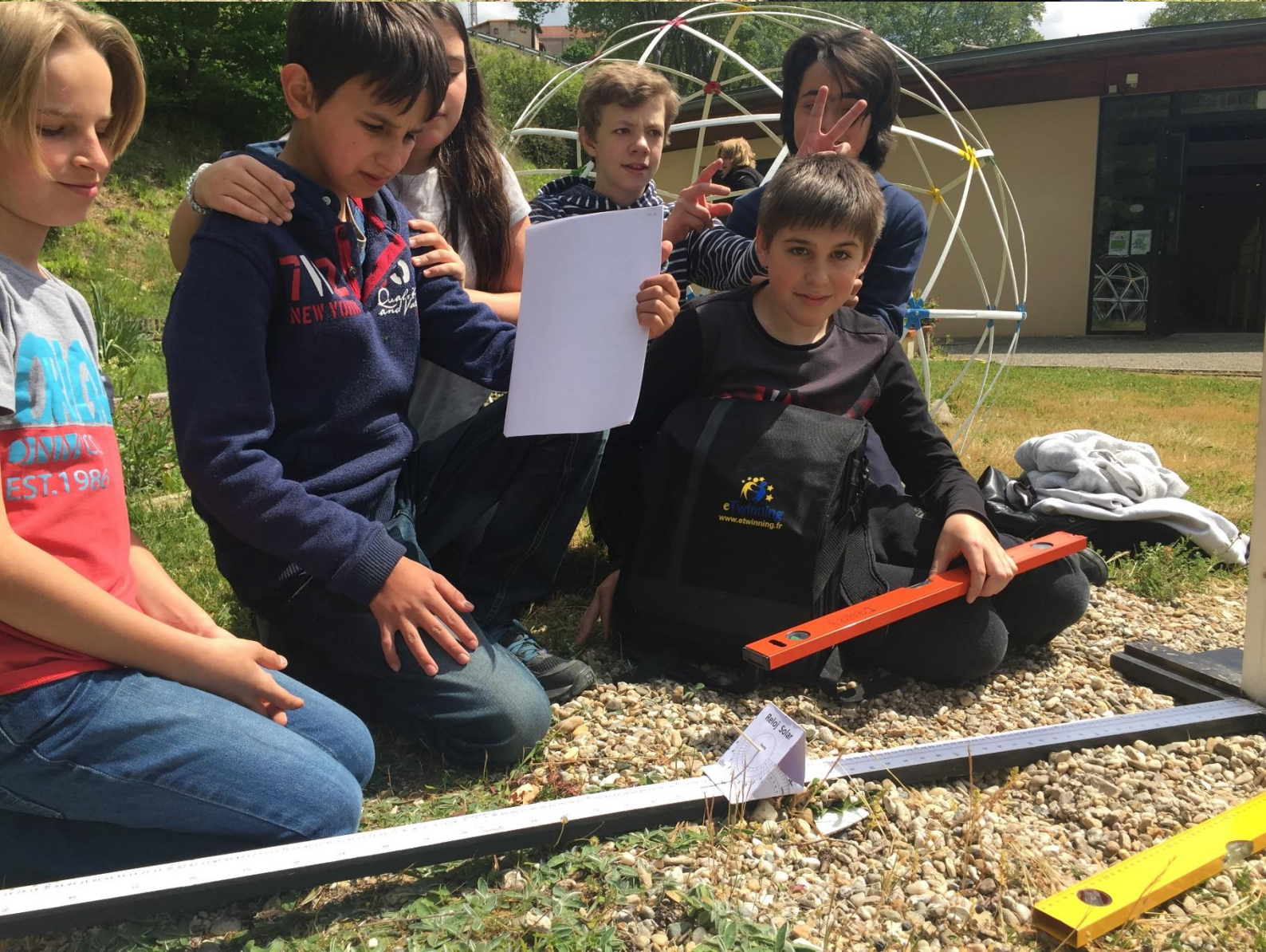
Date	Gnomon	Shadow	Angle
18 April	100 cm	65 cm	33 °
21 April	100 cm	63 cm	32.2 °
24 April	100 cm	61 cm	31.4 °
25 April	100 cm	59 cm	30.5 °
28 April	100 cm	56.5 cm	29.5 °

28 April 2017 (Lafrançaise-FRANCE) Latitude: 44.127 °

28 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8426 \text{ km}}{29.5^\circ + 45.8^\circ} = 40284 \text{ km}$$



Larissa, Greece

April 2017

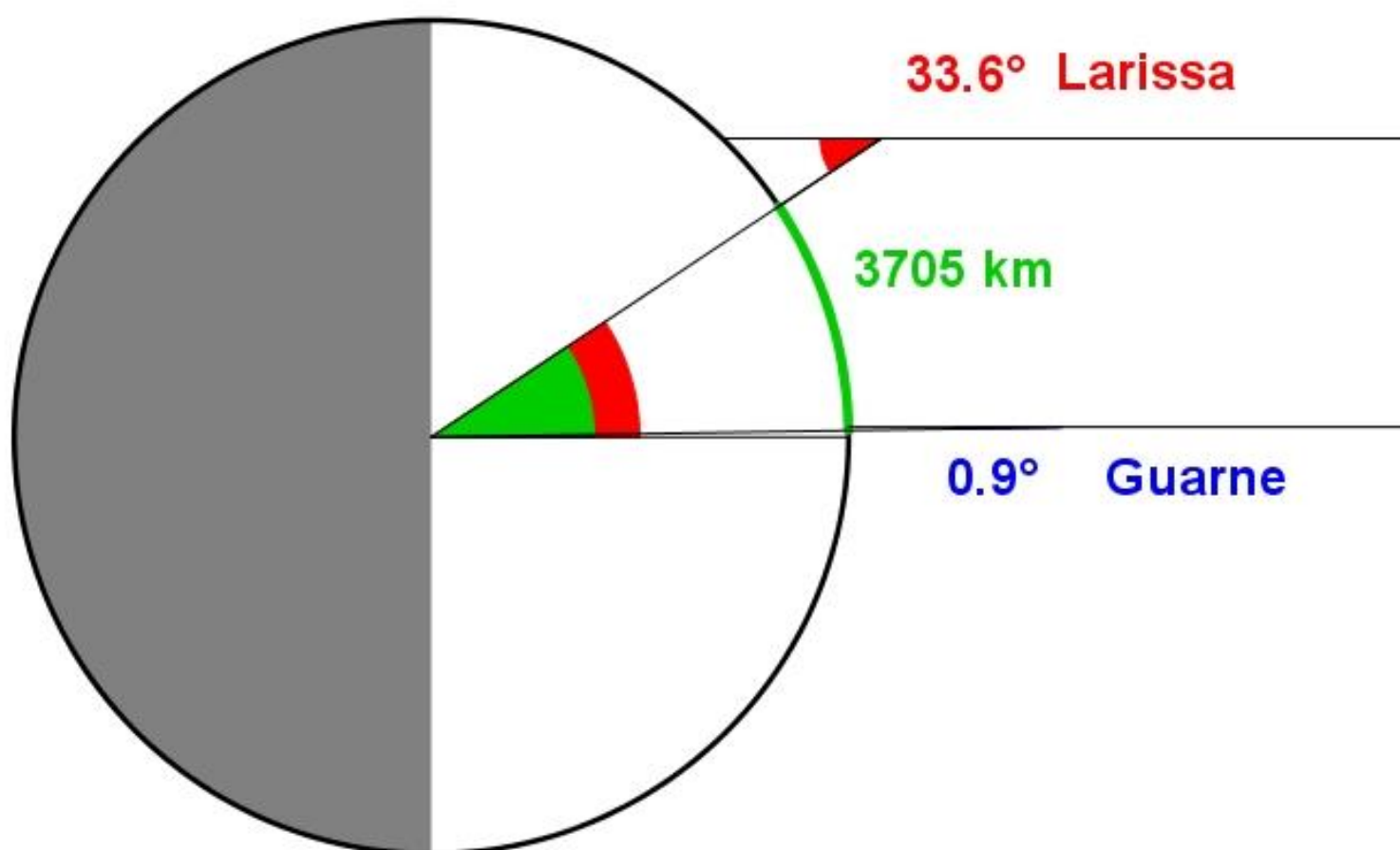


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Larissa	Greece	Diachronic museum of Larissa, 4 JHS Petroupoli	39.618	22.394

Date	Gnomon	Shadow	Angle
04 April	31.5 cm	20.9 cm	33.6 °

04 April 2017 (Larissa-GREECE) Latitude: 39.618°

04 April 2017 (Guarne-COLOMBIA) Latitude: 6.274°



$$\text{circumference} = \frac{360^\circ \times 3705 \text{ km}}{33.6^\circ - 0.9^\circ} = 40789 \text{ km}$$



Mărgineni, Romania

April 2017

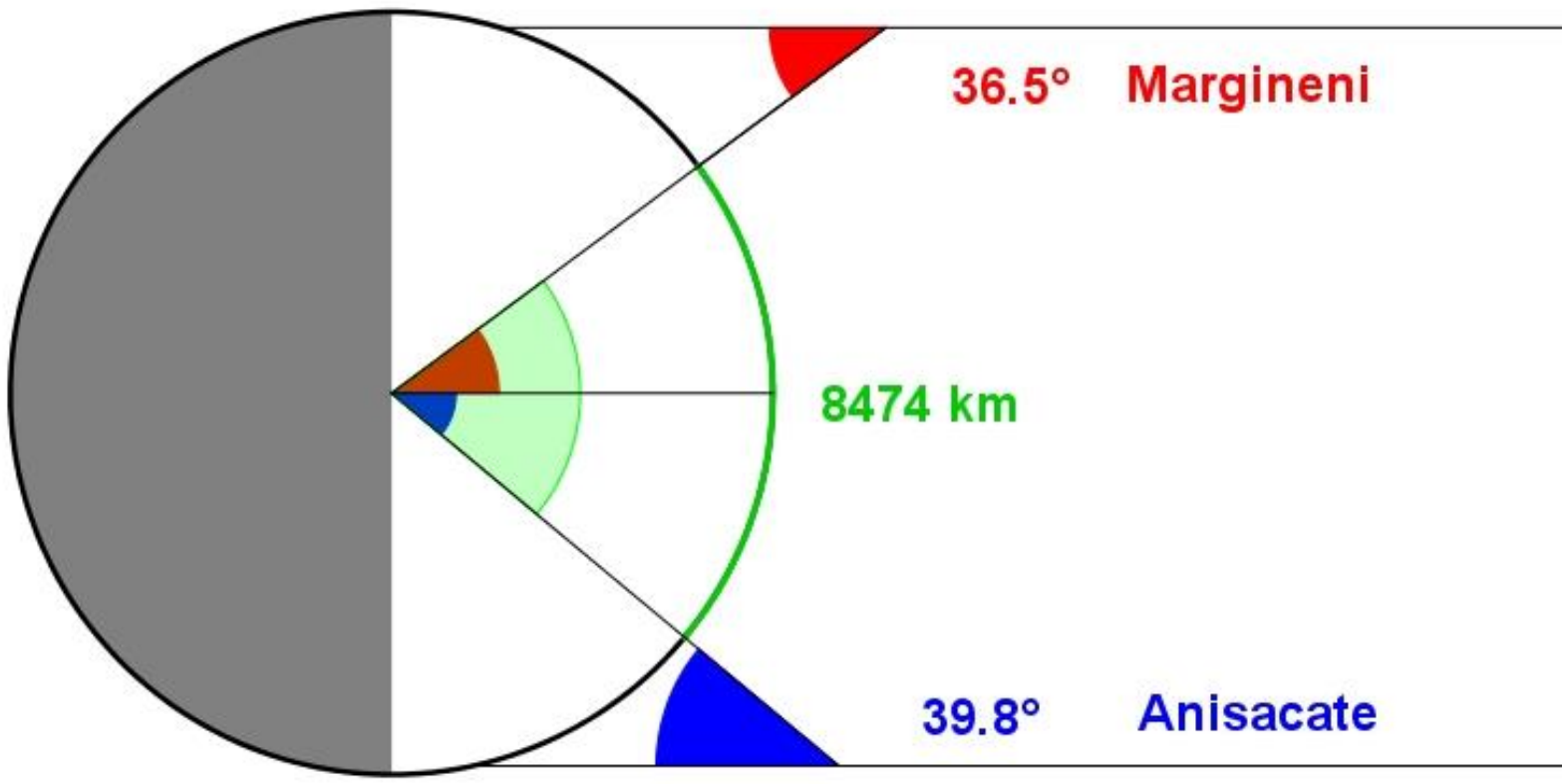


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554

Date	Gnomon	Shadow	Angle
03 April	100 cm	84 cm	40 °
04 April	100 cm	80.5 cm	38.8 °
05 April	100 cm	80 cm	38.7 °
06 April	100 cm	78 cm	38 °
10 April	100 cm	74 cm	36.5 °
11 April	100 cm	74.5 cm	36.1 °
12 April	90 cm	67 cm	36.7 °
13 April	85 cm	63 cm	36.5 °
14 April	100 cm	72.5 cm	35.9 °

10 April 2017 (Margineni-ROMANIA) Latitude: 44.553 °

10 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8474 \text{ km}}{36.5^\circ + 39.8^\circ} = 39982 \text{ km}$$



Marina di Carrara, Italy

April 2017

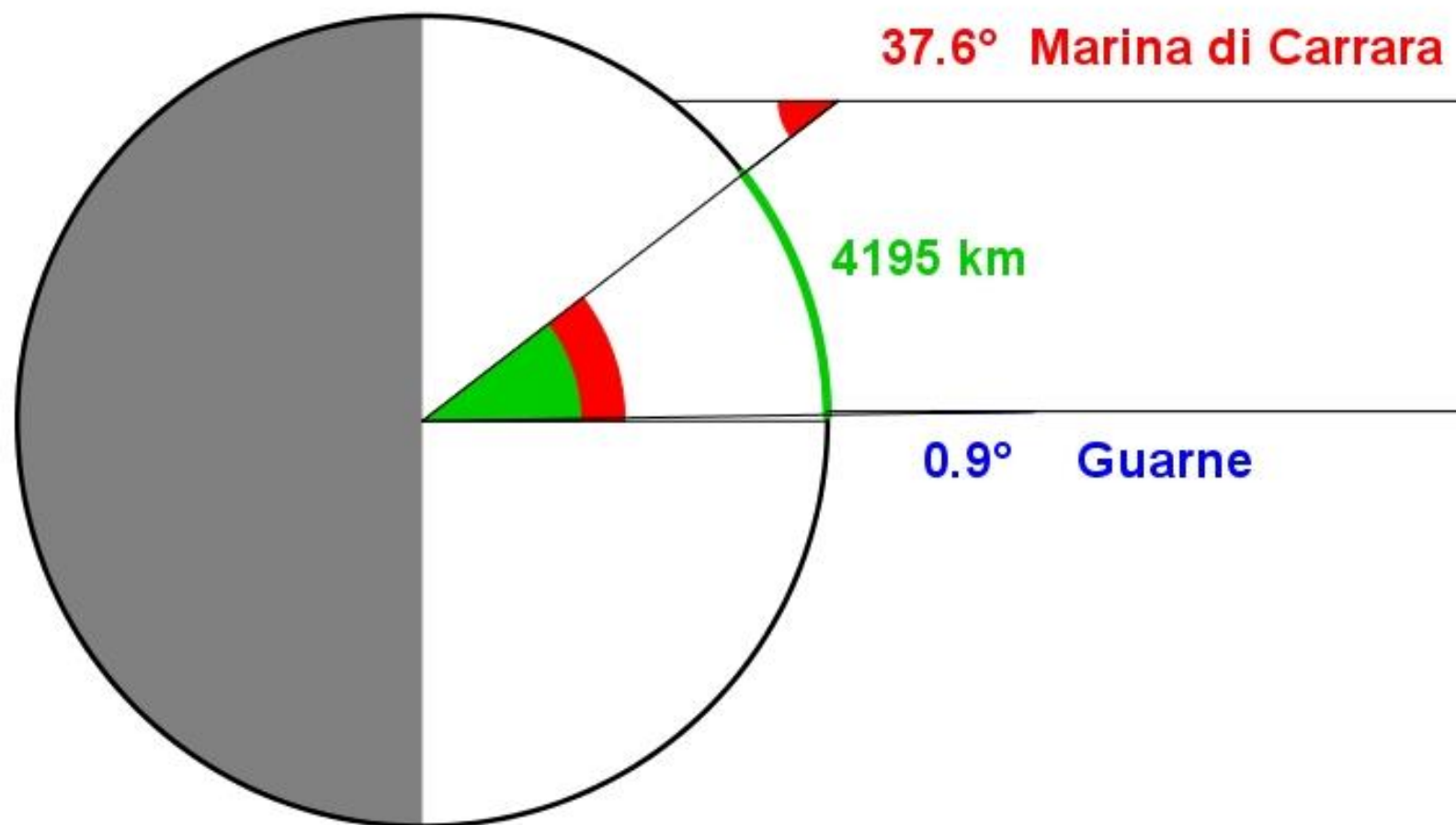


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031

Date	Gnomon	Shadow	Angle
04 April	10 cm	7.7 cm	37.6 °

04 April 2017 (Marina di Carrara-ITALY) Latitude: 44.033°

04 April 2017 (Guarne-COLOMBIA) Latitude: 6.274°



$$\text{circumference} = \frac{360^\circ \times 4195 \text{ km}}{37.6^\circ - 0.9^\circ} = 41150 \text{ km}$$



Medellín CA, Colombia

April 2017

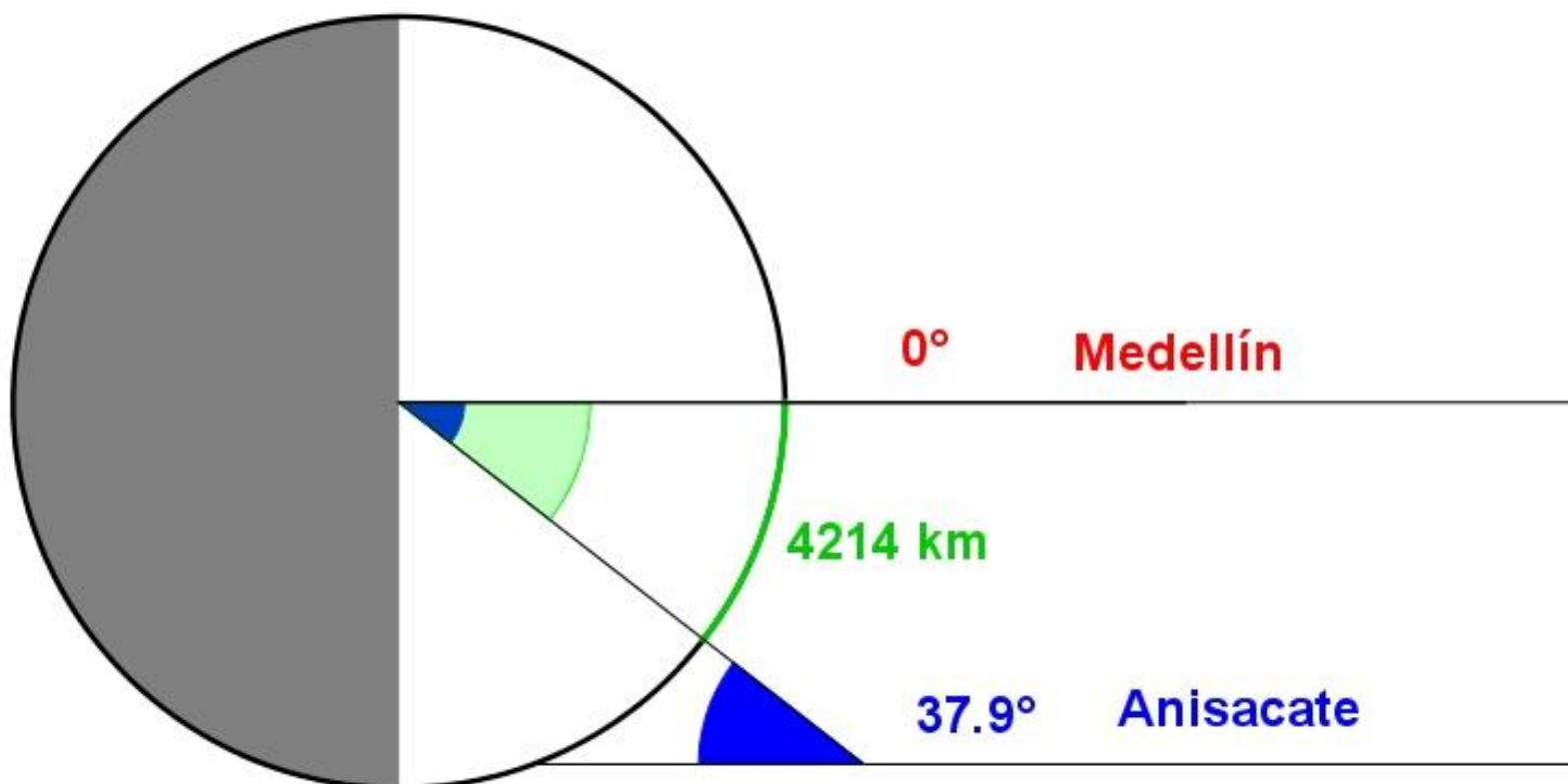


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Medellín	Colombia	Colegiatura de Antioquia	6.209	-75.546

Date	Gnomon	Shadow	Angle
05 April	cm	0 cm	0 °

05 April 2017 (Medellín-COLOMBIA) Latitude: 6.209 °

05 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 4214 \text{ km}}{0^\circ + 37.9^\circ} = 40027 \text{ km}$$



Medellín IEC, Colombia

April 2017

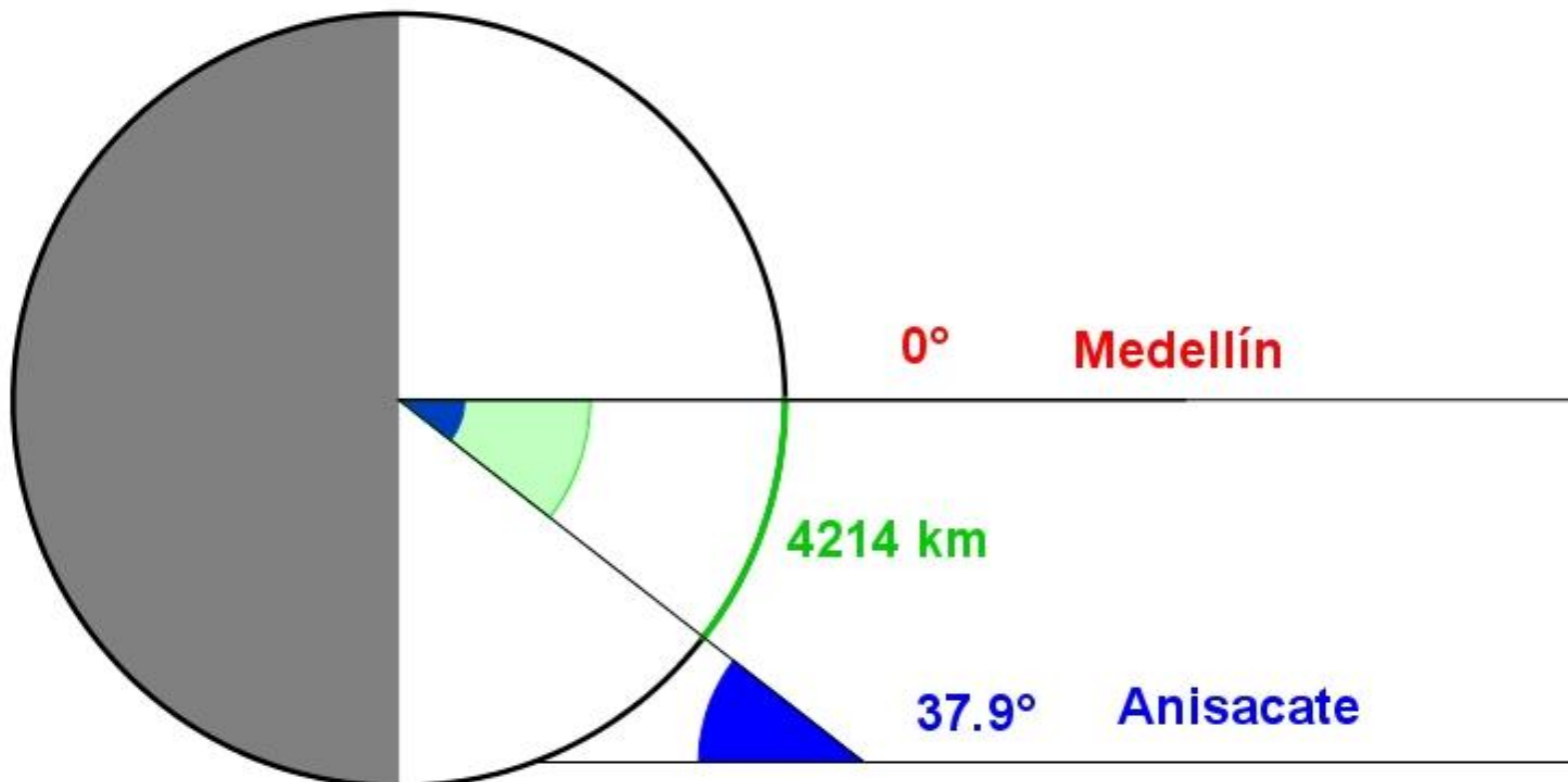


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Medellín	Colombia	I.E. el Corazón	6.247	-75.629

Date	Gnomon	Shadow	Angle
05 April	cm	0 cm	0 °

05 April 2017 (Medellín-COLOMBIA) Latitude: 6.209 °

05 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 4214 \text{ km}}{0^\circ + 37.9^\circ} = 40027 \text{ km}$$



Medellín IEJL, Colombia

April 2017

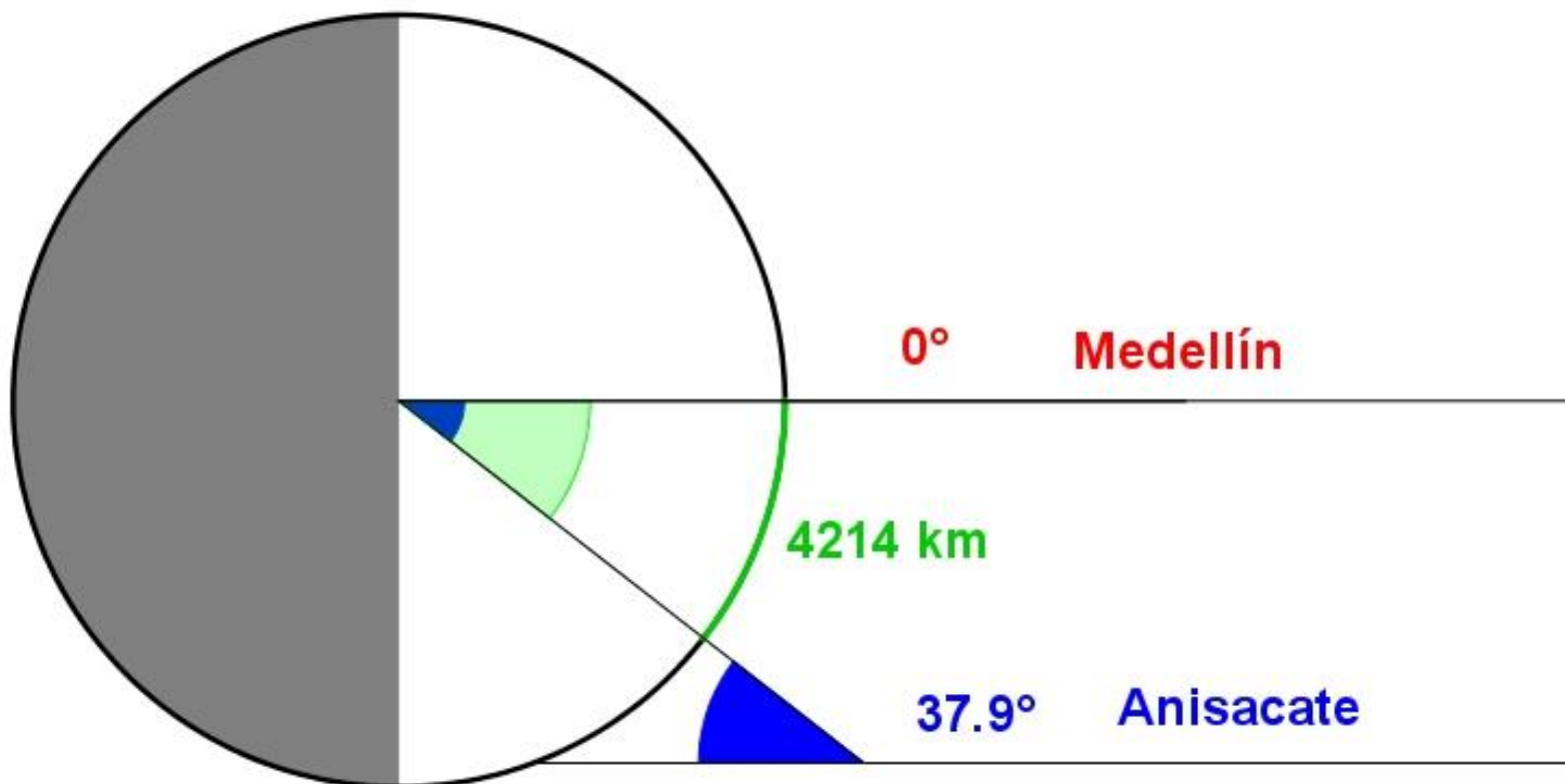


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Medellín	Colombia	I.E. Javiera Londoño	6.249	-75.560

Date	Gnomon	Shadow	Angle
05 April	cm	0 cm	0 °

05 April 2017 (Medellín-COLOMBIA) Latitude: 6.209 °

05 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 4214 \text{ km}}{0^\circ + 37.9^\circ} = 40027 \text{ km}$$



Merlara, Italy

April 2017

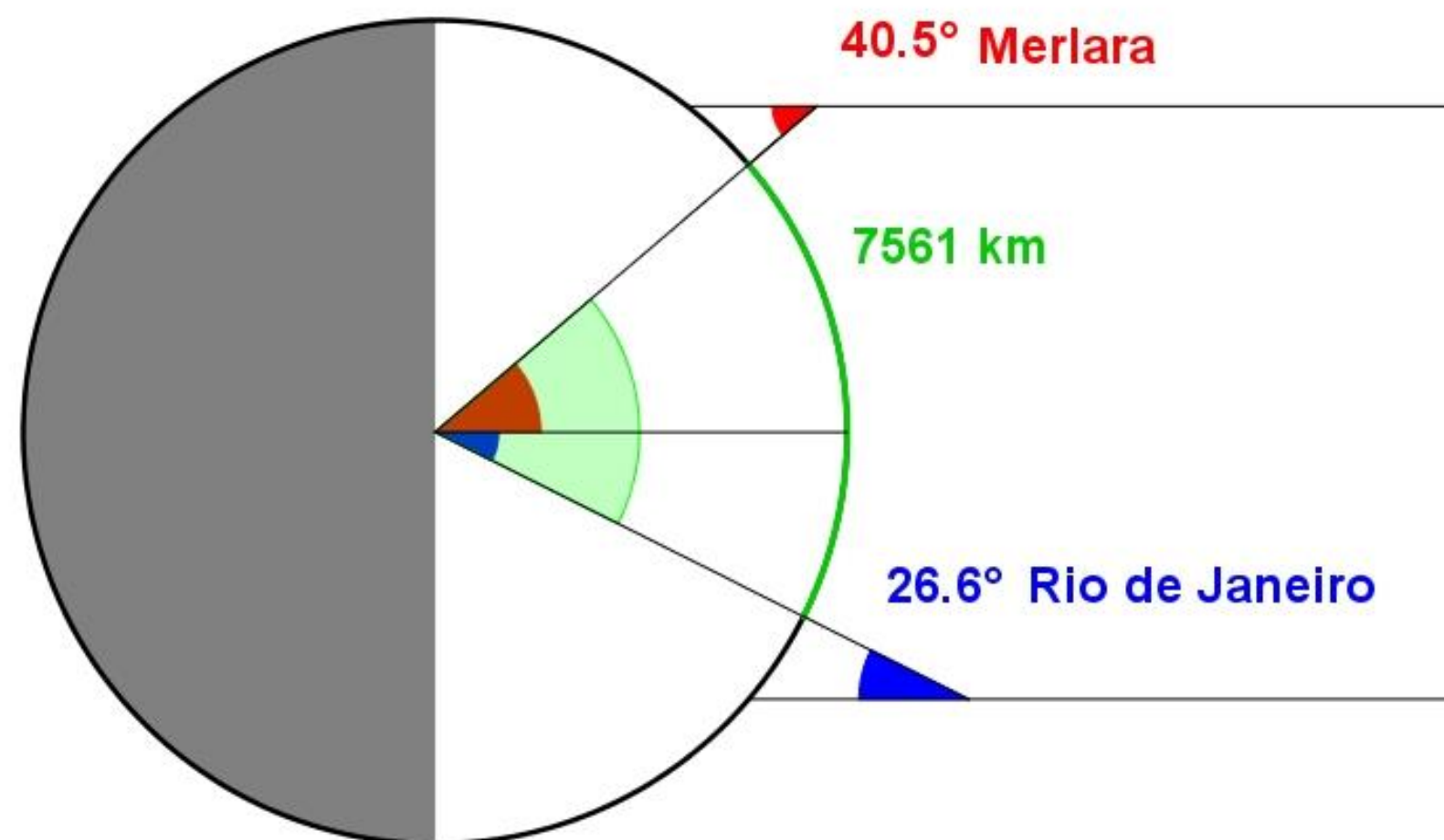


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.166	11.433

Date	Gnomon	Shadow	Angle
04 April	100 cm	85.5 cm	40.5 °

04 April 2017 (Merlara-ITALY) Latitude: 45.166 °

04 April 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °



$$\text{circumference} = \frac{360^\circ \times 7561 \text{ km}}{40.5^\circ + 26.6^\circ} = 40566 \text{ km}$$



Neochori, Greece

April 2017

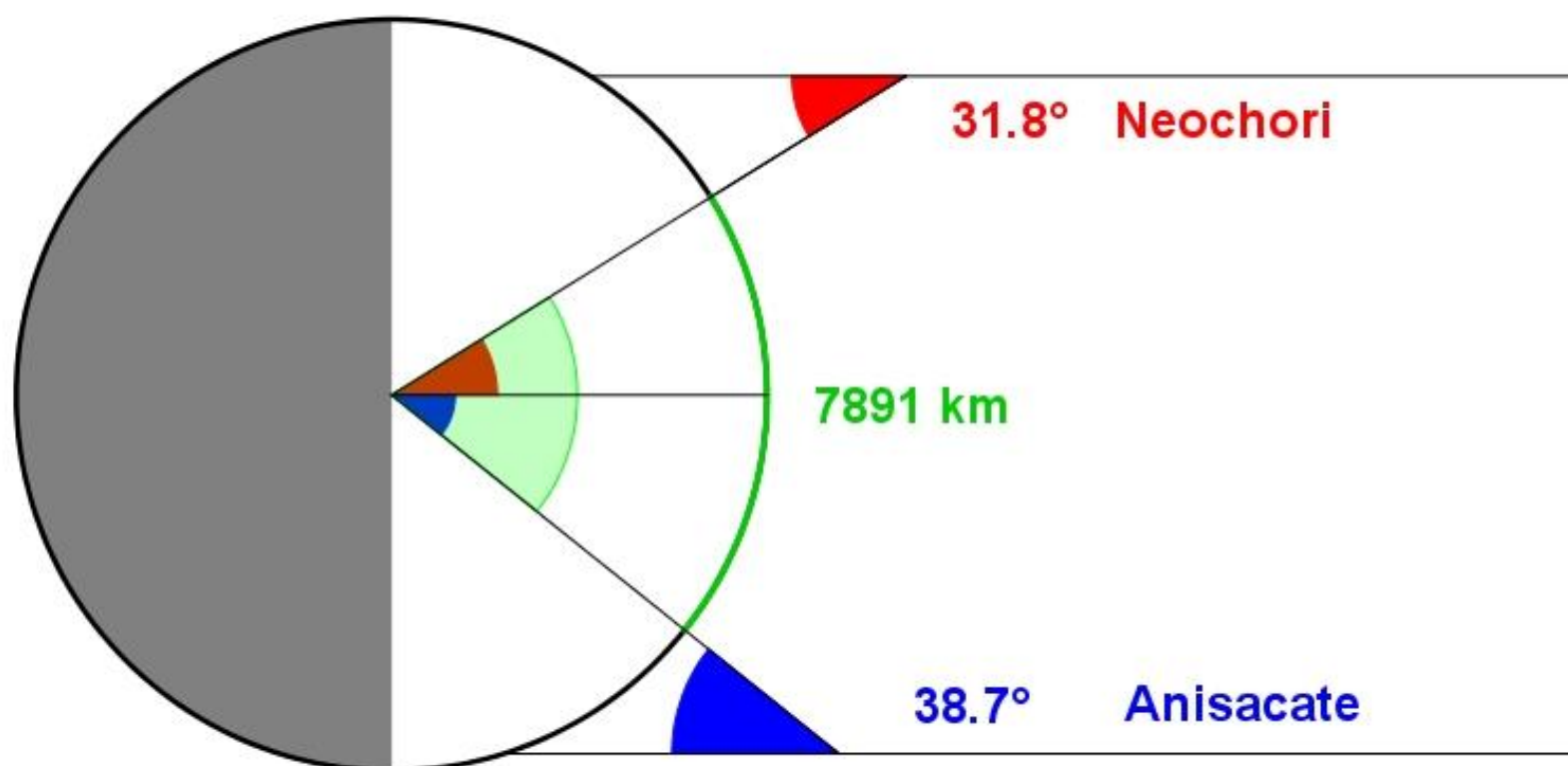


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Neochori	Greece	CERN 2nd JHS of Korydallos	39.305	23.218

Date	Gnomon	Shadow	Angle
07 April	100 cm	62 cm	31.8 °

07 April 2017 (Neochori-GREECE) Latitude: 39.305 °

07 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7891 \text{ km}}{31.8^\circ + 38.7^\circ} = 40294 \text{ km}$$



Petroupoli, Greece

April 2017

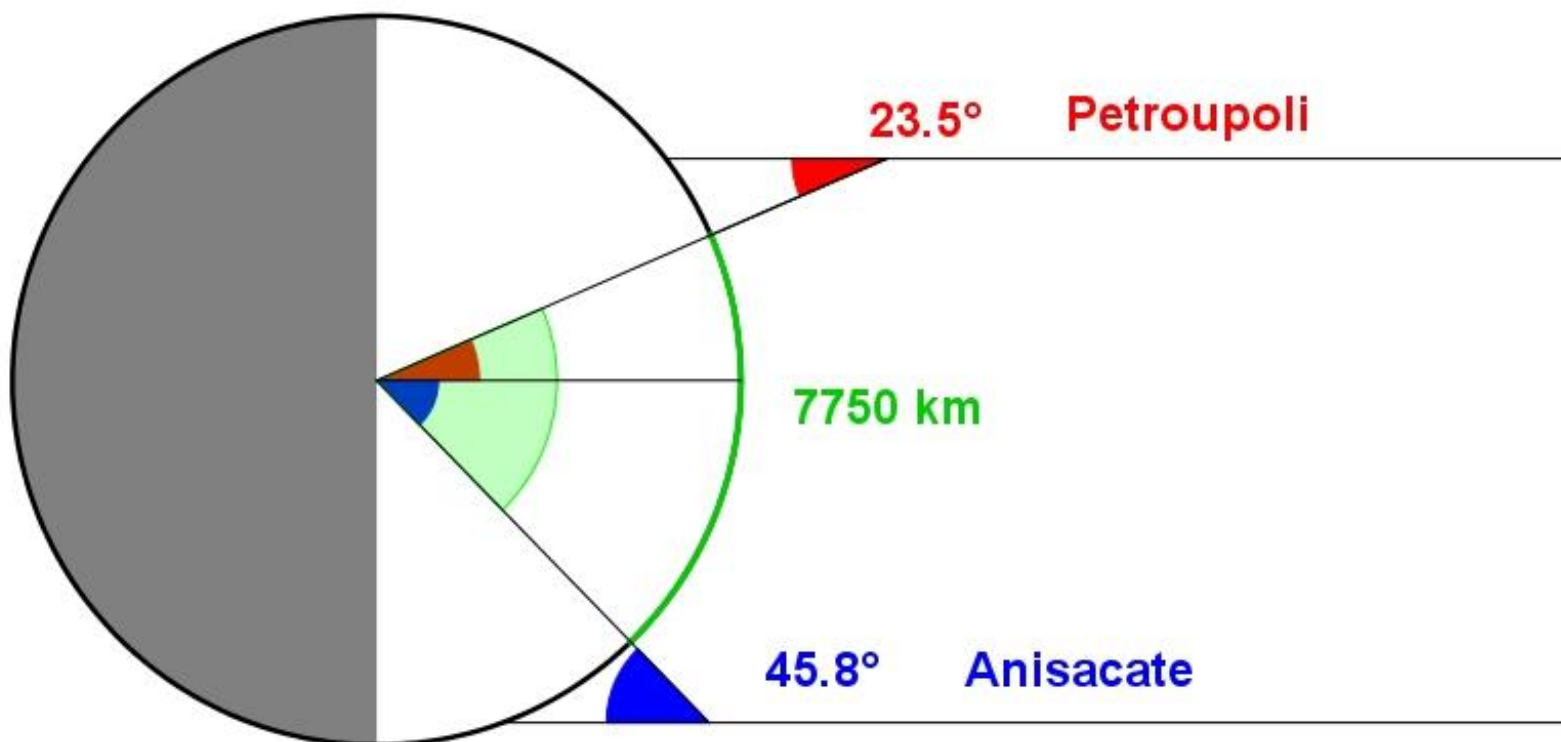


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Petroupoli	Greece	4o Junior High School	38.036	23.674

Date	Gnomon	Shadow	Angle
24 April	52.3 cm	24 cm	24.6 °
28 April	30.4 cm	13.2 cm	23.5 °

28 April 2017 (Petroupoli-GREECE) Latitude: 38.036 °

28 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7750 \text{ km}}{23.5^\circ + 45.8^\circ} = 40260 \text{ km}$$



Piraeus, Greece

April 2017

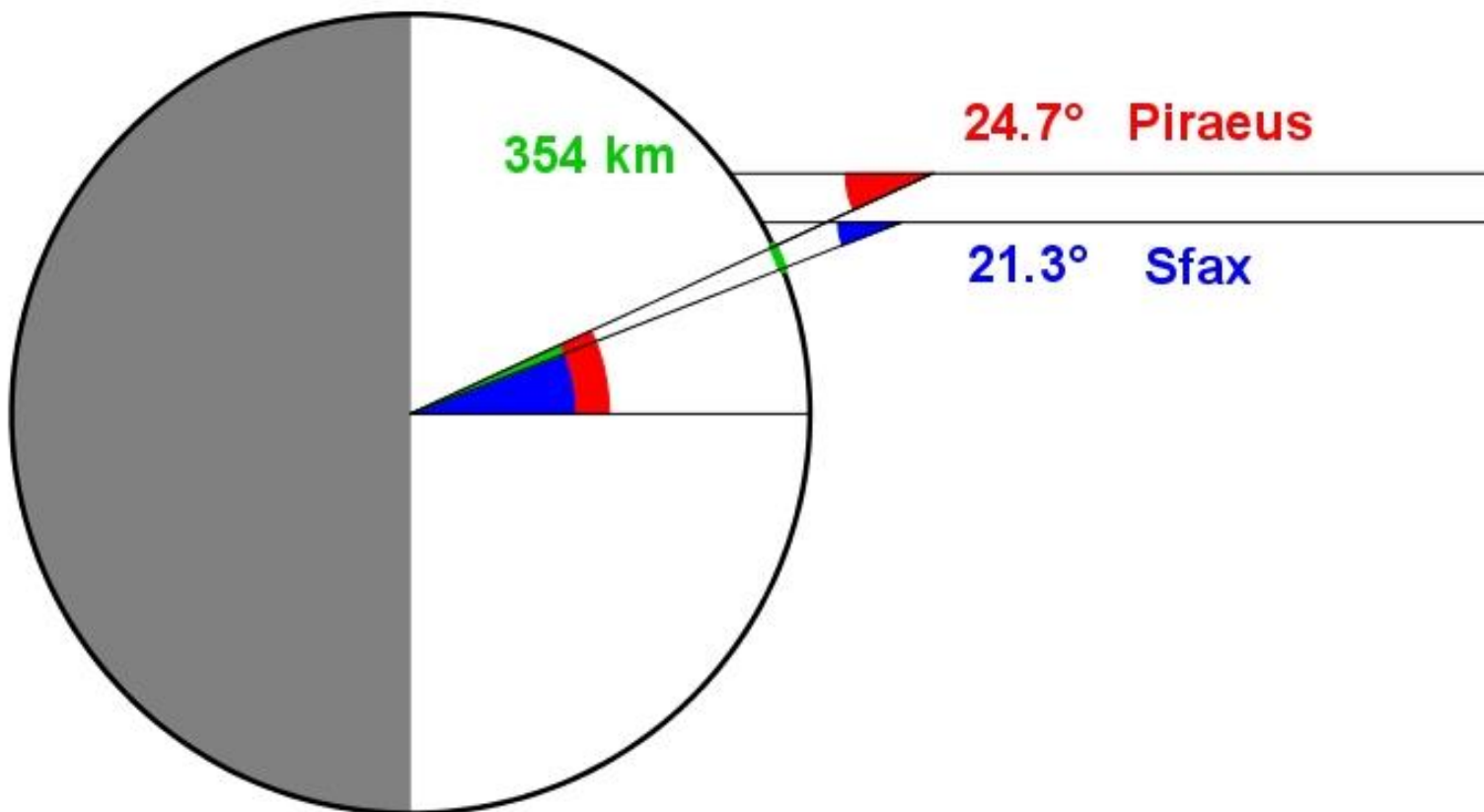


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655

Date	Gnomon	Shadow	Angle
24 April	100 cm	46 cm	24.7 °
25 April	100 cm	46 cm	24.7 °

24 April 2017 (Piraeus-GREECE) Latitude: 37.977

24 April 2017 (Sfax-TUNISIA) Latitude: 34.789

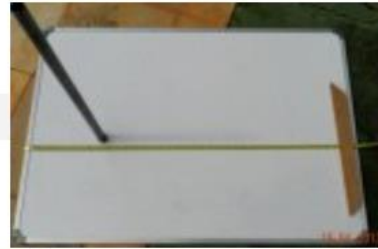


$$\text{circumference} = \frac{360^\circ \times 354 \text{ km}}{24.7^\circ - 21.3^\circ} = 37482 \text{ km}$$



Piranguinho, Brazil

April 2017

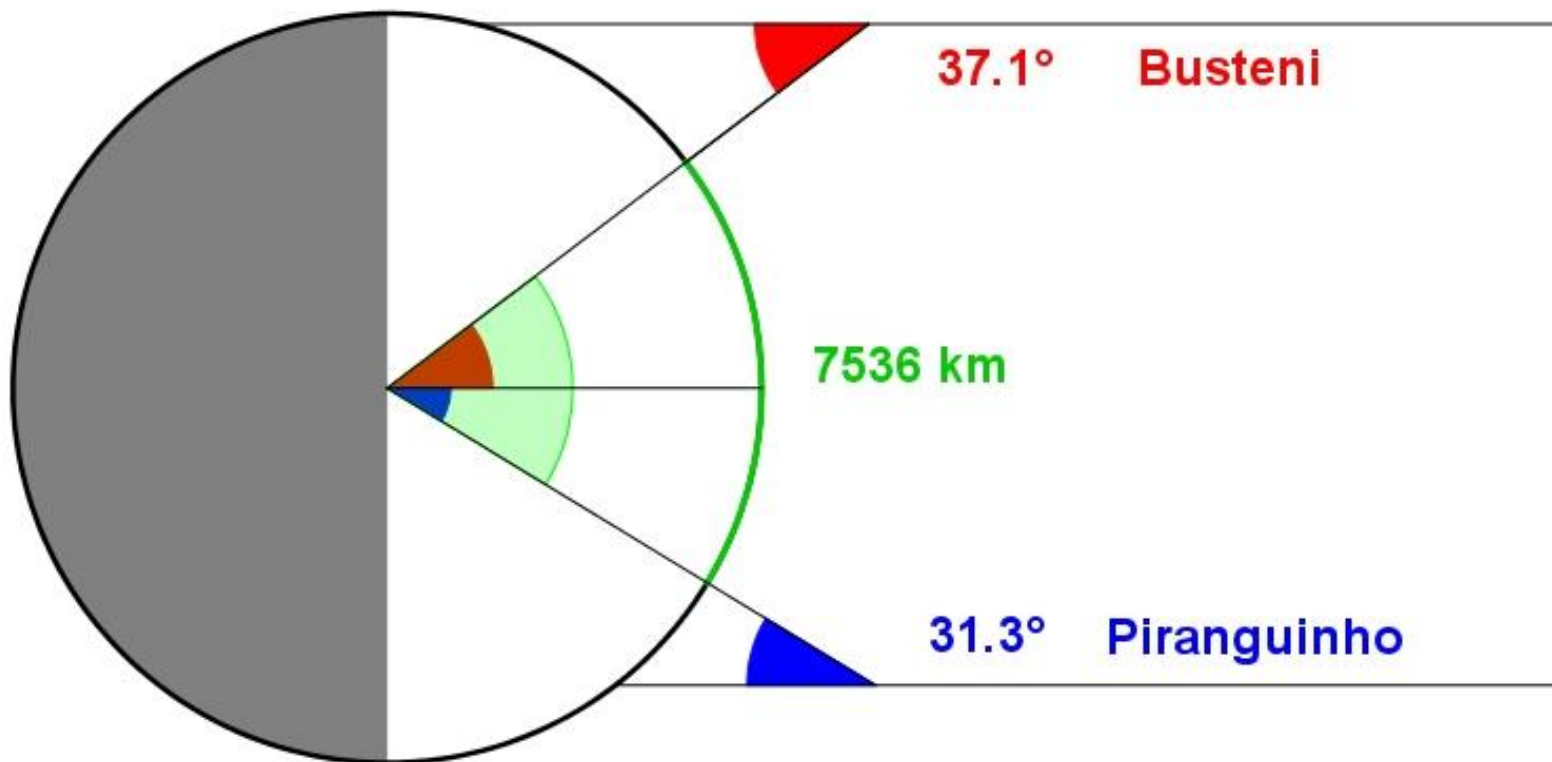


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535

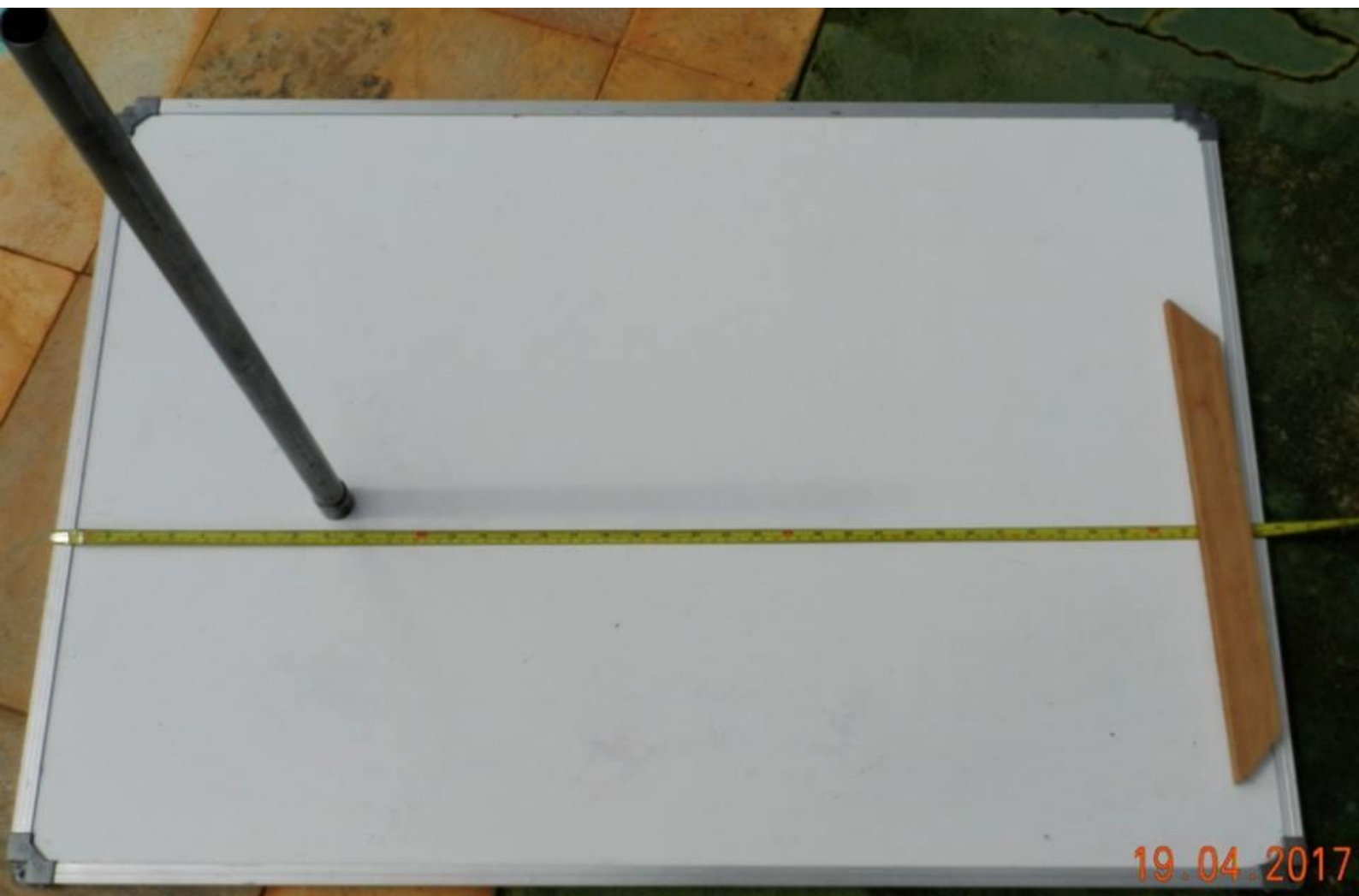
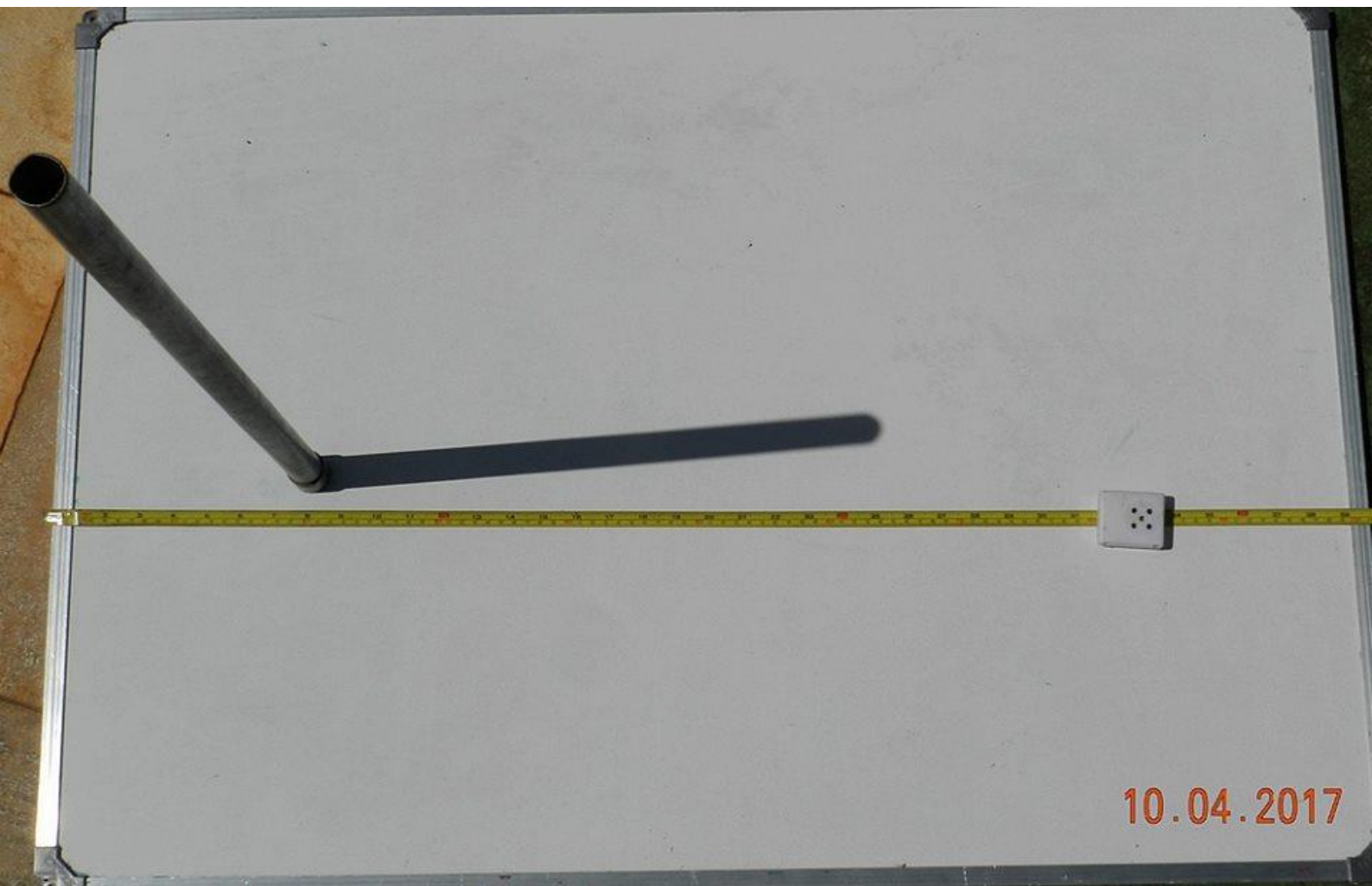
Date	Gnomon	Shadow	Angle
10 April	70 cm	-42.6 cm	-31.3 °
19 April	70 cm	-47.7 cm	-34.3 °

10 April 2017 (Busteni-ROMANIA) Latitude: 45.416 °

10 April 2017 (Piranguinho-BRAZIL) Latitude: -22.411 °



$$\text{circumference} = \frac{360^\circ \times 7536 \text{ km}}{37.1^\circ + 31.3^\circ} = 39663 \text{ km}$$



Râmnicu Vâlcea, Romania

April 2017

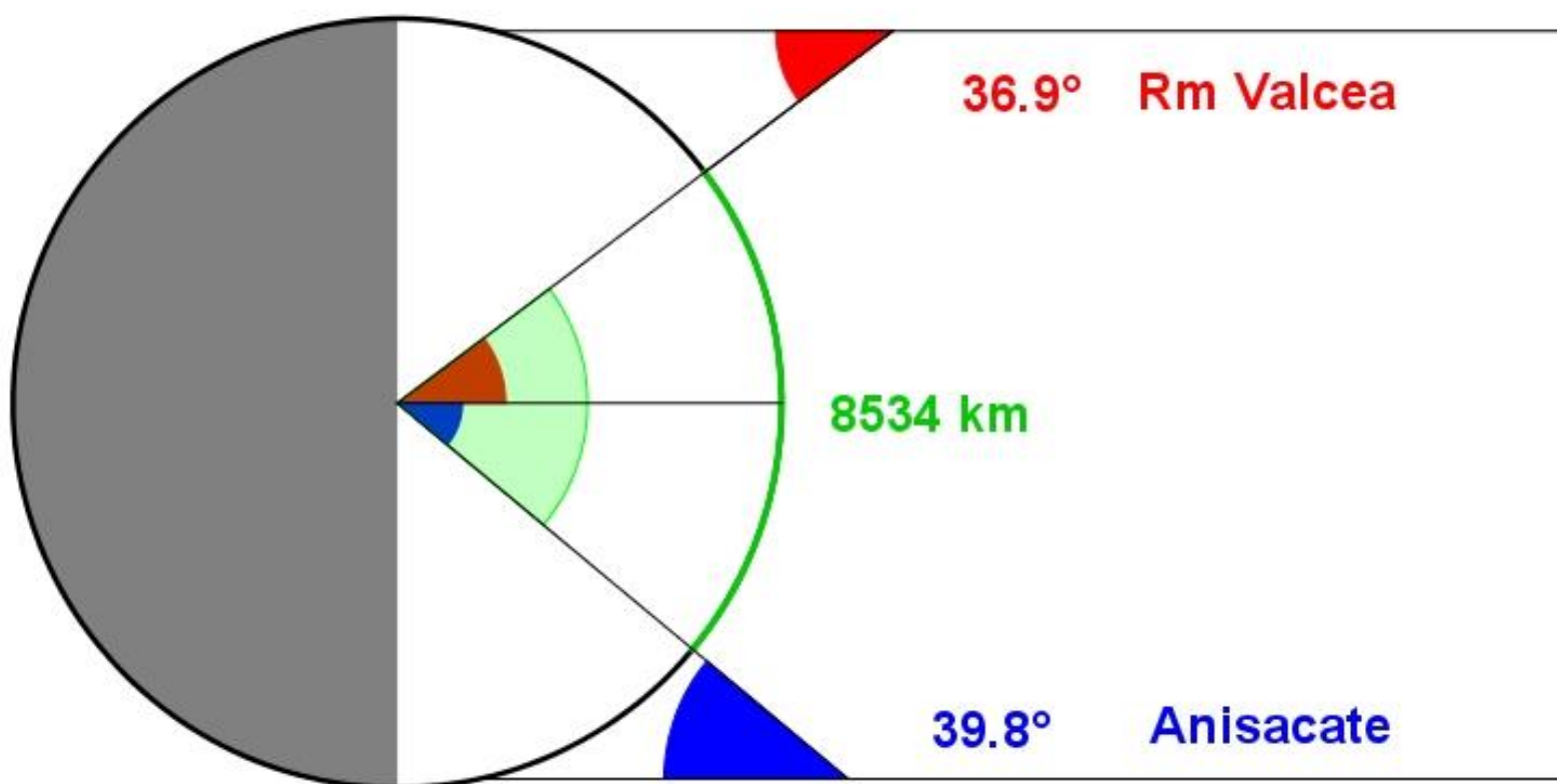


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Râmnicu Vâlcea	Romania	S.G. Nr4 Gradinita Dumbrava Minuata	45.093	24.358

Date	Gnomon	Shadow	Angle
03 April	100 cm	82.5 cm	39.5 °
10 April	100 cm	75 cm	36.9 °
13 April	100 cm	71.8 cm	35.7 °
14 April	28.2 cm	20 cm	35.3 °

10 April 2017 (Rm Valcea-ROMANIA) Latitude: 45.093 °

10 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 8534 \text{ km}}{36.9^\circ + 39.8^\circ} = 40055 \text{ km}$$



Rhodes, Greece

April 2017

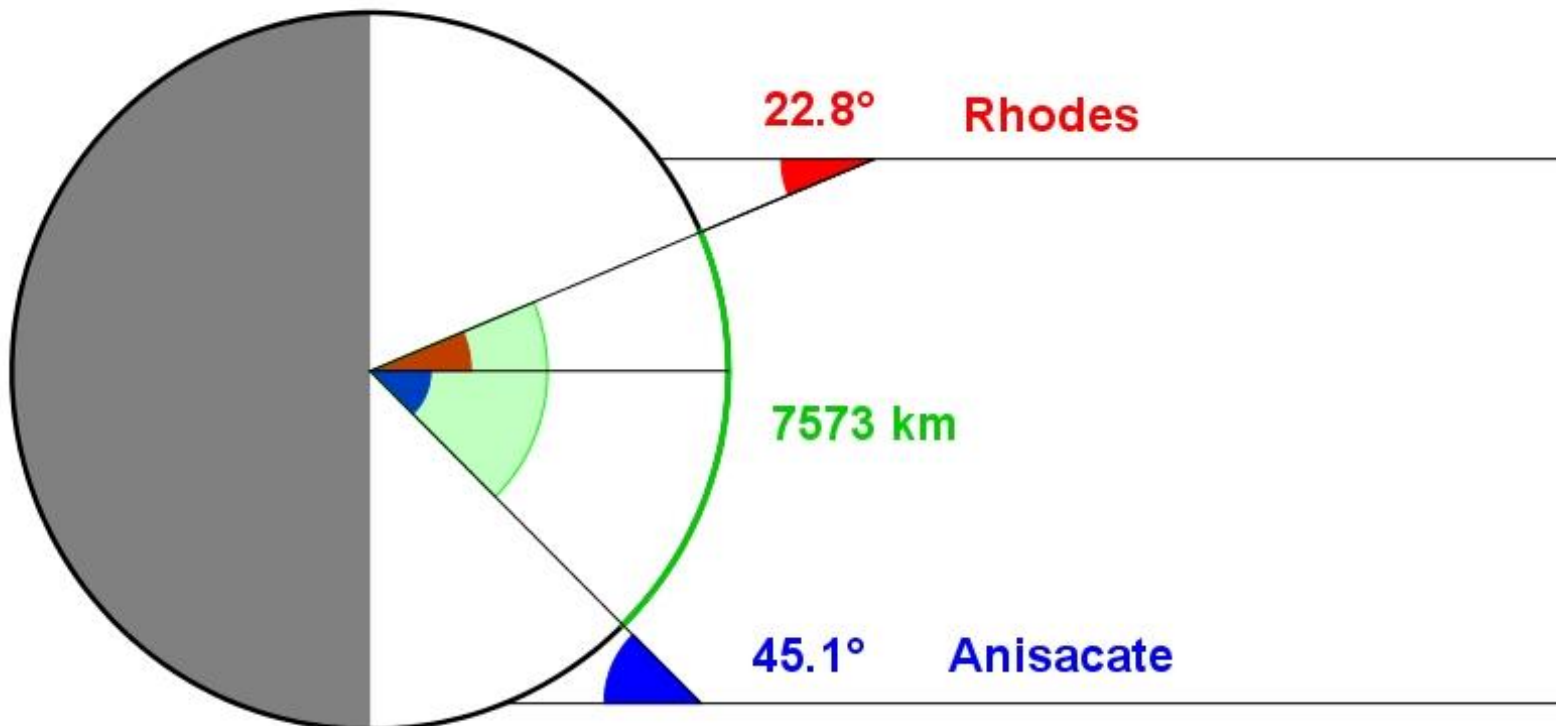


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rhodes	Greece	2o Experimental Primary School of Rhodes	36.449	28.221

Date	Gnomon	Shadow	Angle
26 April	34.8 cm	14.6 cm	22.8 °

26 April 2017 (Rhodes-GREECE) Latitude: 36.449 °

26 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7573 \text{ km}}{22.8^\circ + 45.1^\circ} = 40151 \text{ km}$$



Rio de Janeiro CENOM, Brazil

April 2017

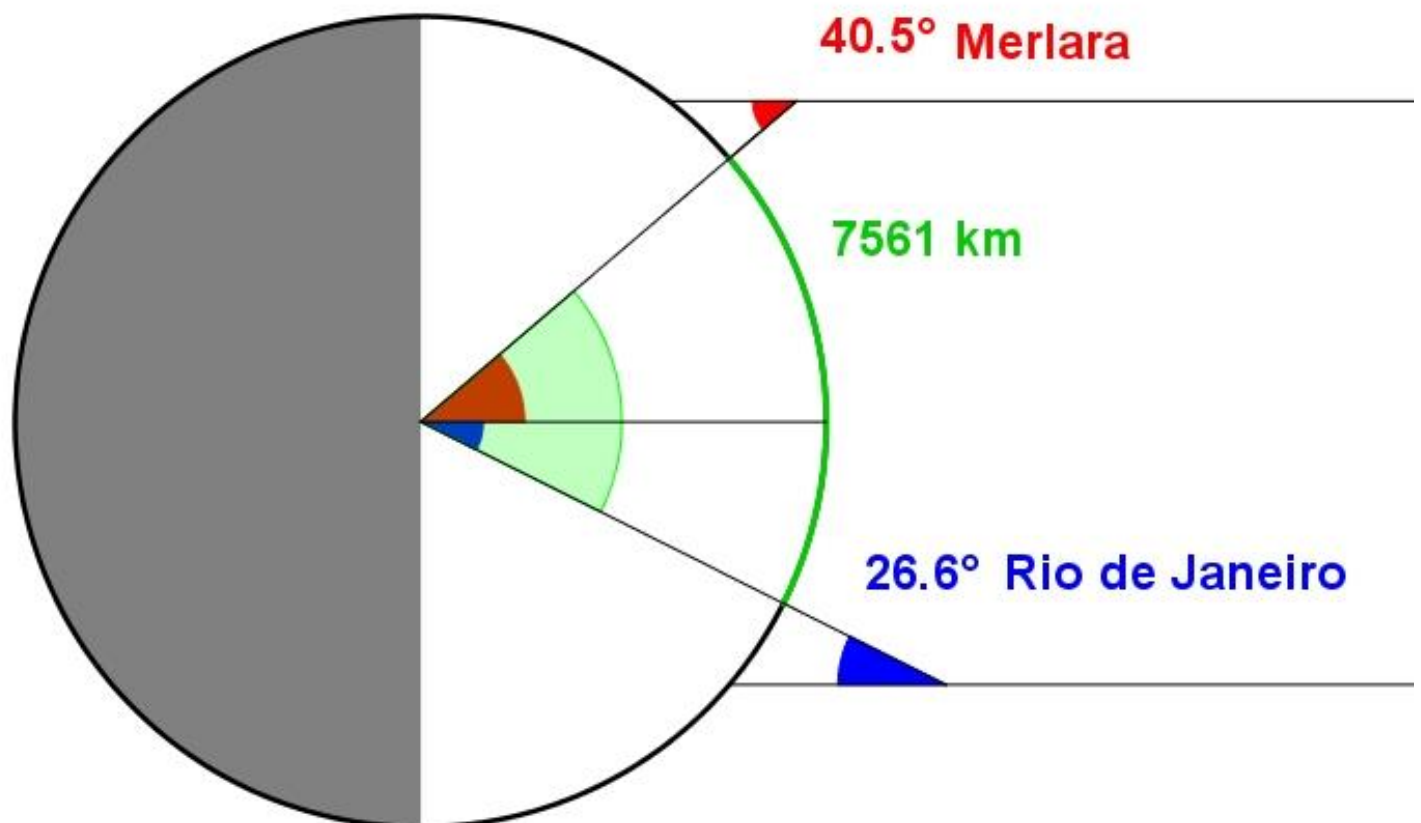


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317

Date	Gnomon	Shadow	Angle
04 April	100 cm	-50 cm	-26.6 °
06 April	100 cm	-51 cm	-27 °
12 April	100 cm	-65 cm	-33 °

04 April 2017 (Merlara-ITALY) Latitude: 45.166 °

04 April 2017 (Rio de Janeiro-BRAZIL) Latitude: -22.89 °



$$\text{circumference} = \frac{360^\circ \times 7561 \text{ km}}{40.5^\circ + 26.6^\circ} = 40566 \text{ km}$$



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Rio de Janeiro Méier, Brazil

April 2017

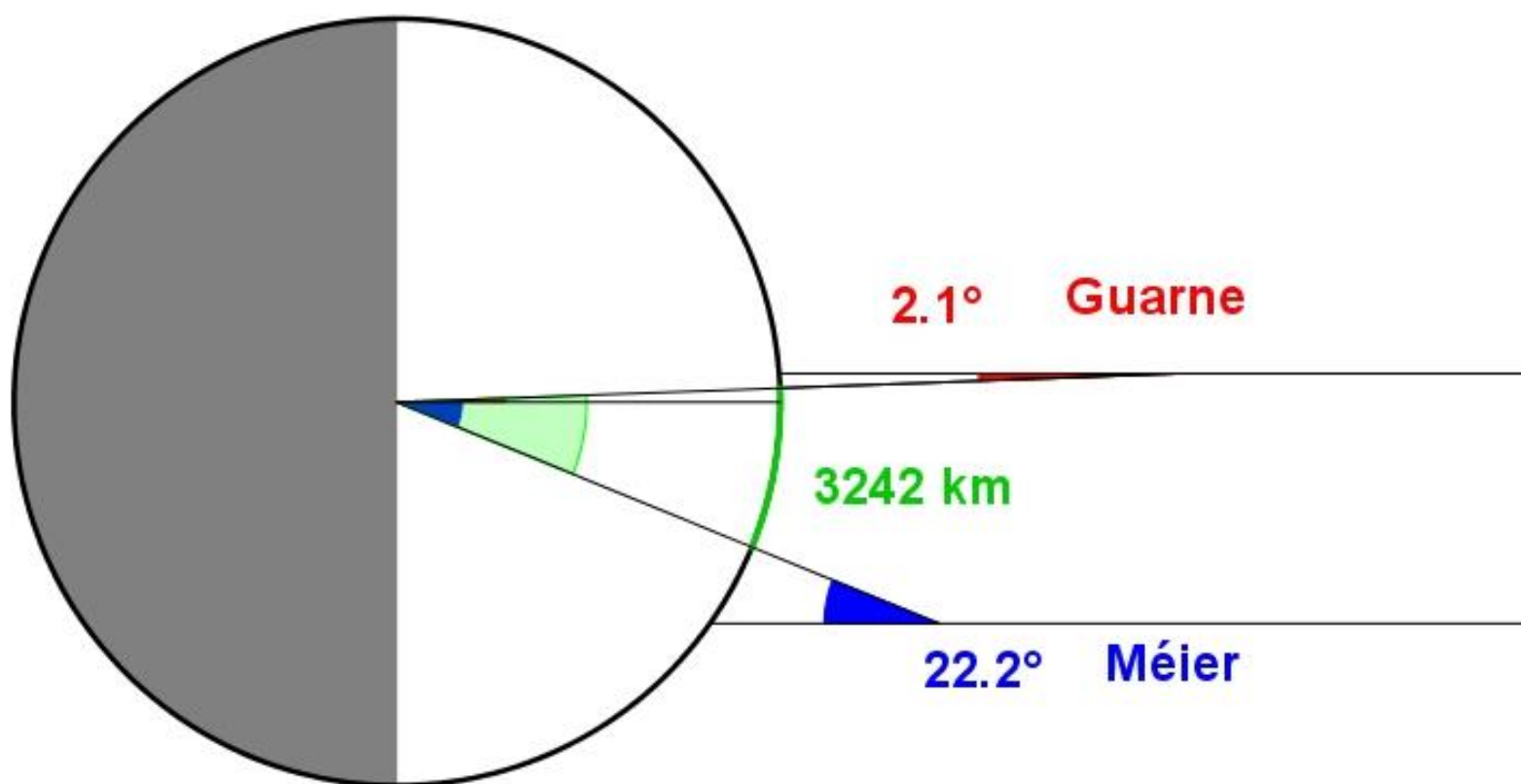


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Escola Municipal Bento Ribeiro, Méier	-22.904	-43.280

Date	Gnomon	Shadow	Angle
01 April	22 cm	-9 cm	-22.2 °

01 April 2017 (Guarne-COLOMBIA) Latitude: 6.274 °

01 April 2017 (Méier-BRAZIL) Latitude: -22.904 °




$$\text{circumference} = \frac{360^\circ \times 3242 \text{ km}}{2.1^\circ + 22.2^\circ} = 48030 \text{ km}$$



Sfax, Tunisia

April 2017

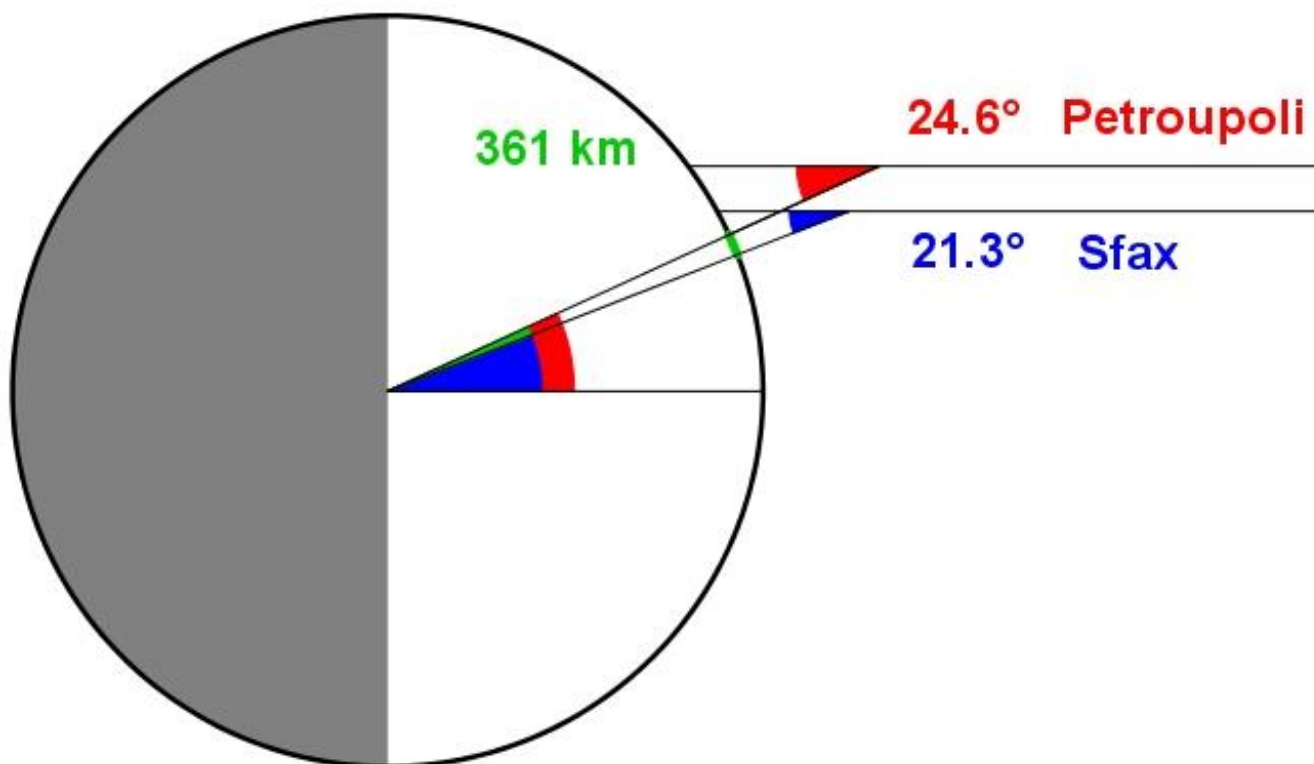


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780

Date	Gnomon	Shadow	Angle
24 April	100 cm	39 cm	21.3 °

24 April 2017 (Petroupoli-GREECE) Latitude: 38.036

24 April 2017 (Sfax-TUNISIA) Latitude: 34.789




$$\text{circumference} = \frac{360^\circ \times 361 \text{ km}}{24.6^\circ - 21.3^\circ} = 39382 \text{ km}$$



Tsaritsani, Greece

April 2017

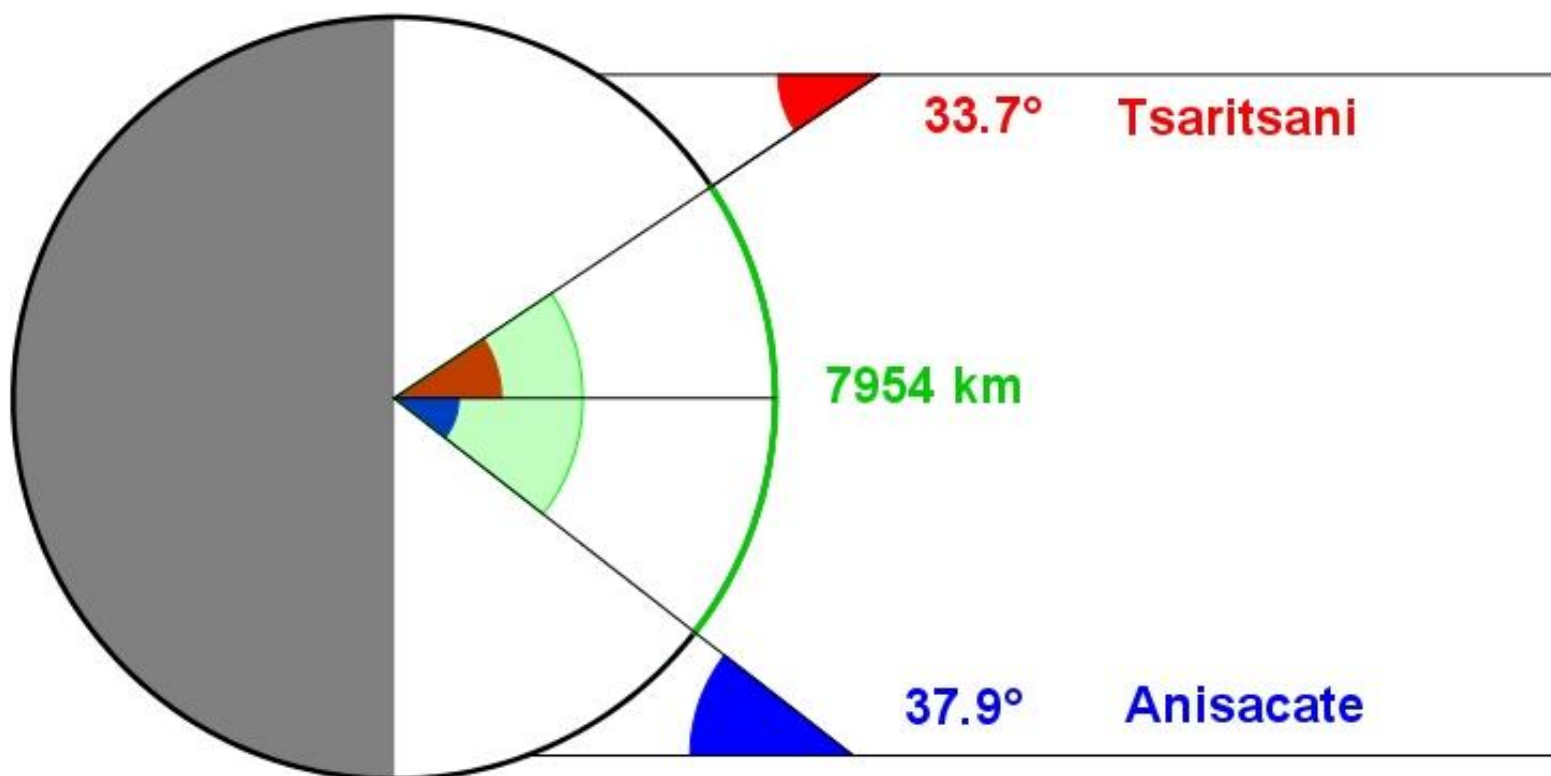


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Tsaritsani	Greece	eco group of 4th JHS Petroupoli	39.880	22.229

Date	Gnomon	Shadow	Angle
05 April	31.5 cm	21 cm	33.7 °

05 April 2017 (Tsaritsani-ROMANIA) Latitude: 39.88 °

05 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °




$$\text{circumference} = \frac{360^\circ \times 7954 \text{ km}}{33.7^\circ + 37.9^\circ} = 39992 \text{ km}$$



Volos, Greece

April 2017

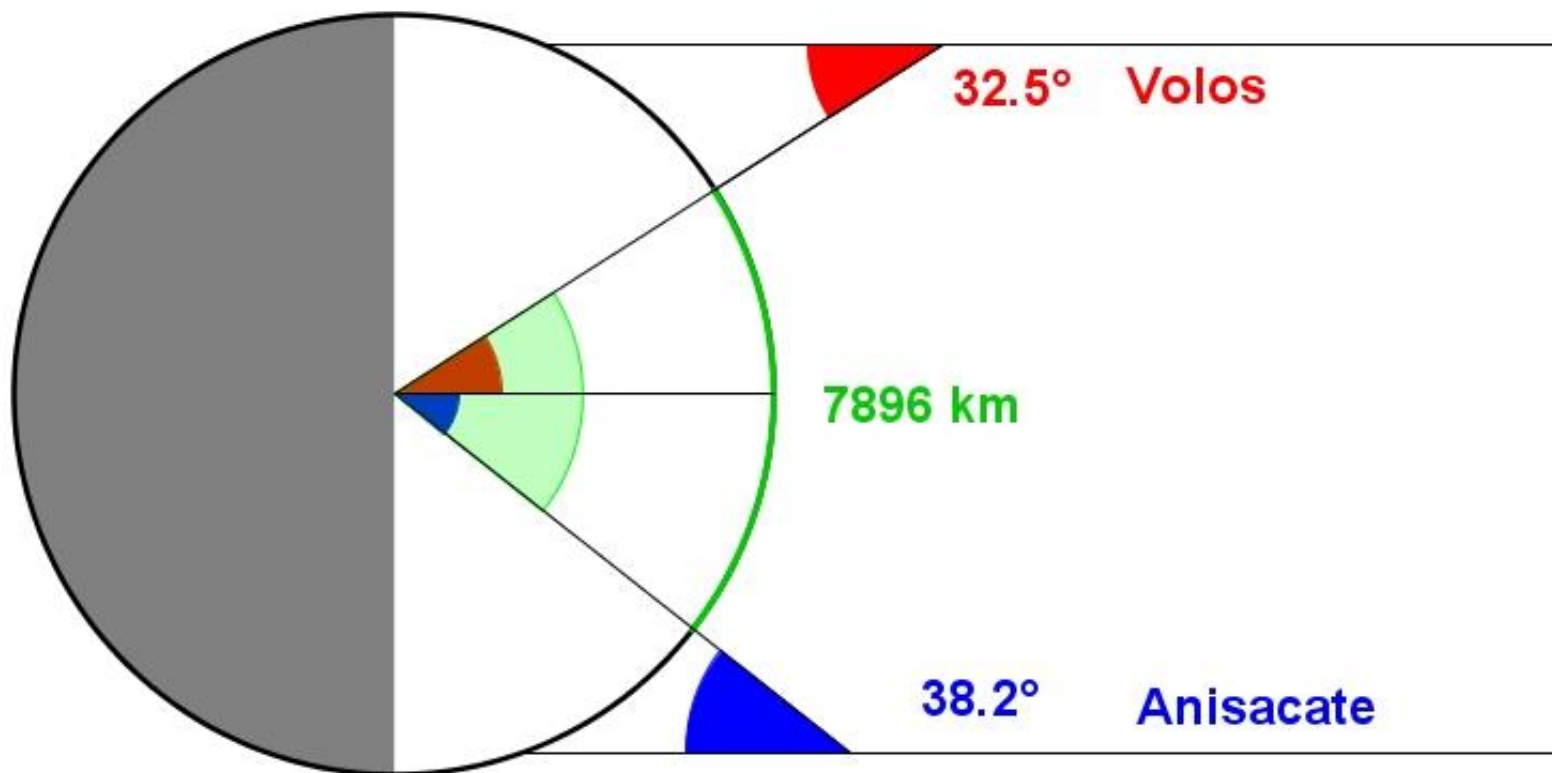


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Volos	Greece	Athanasakeio Archaiological museum	39.352	22.961

Date	Gnomon	Shadow	Angle
06 April	100 cm	63.6 cm	32.5 °

06 April 2017 (Volos-GREECE) Latitude: 39.352 °

06 April 2017 (Anisacate-ARGENTINA) Latitude: -31.717 °



$$\text{circumference} = \frac{360^\circ \times 7896 \text{ km}}{32.5^\circ + 38.2^\circ} = 40206 \text{ km}$$



