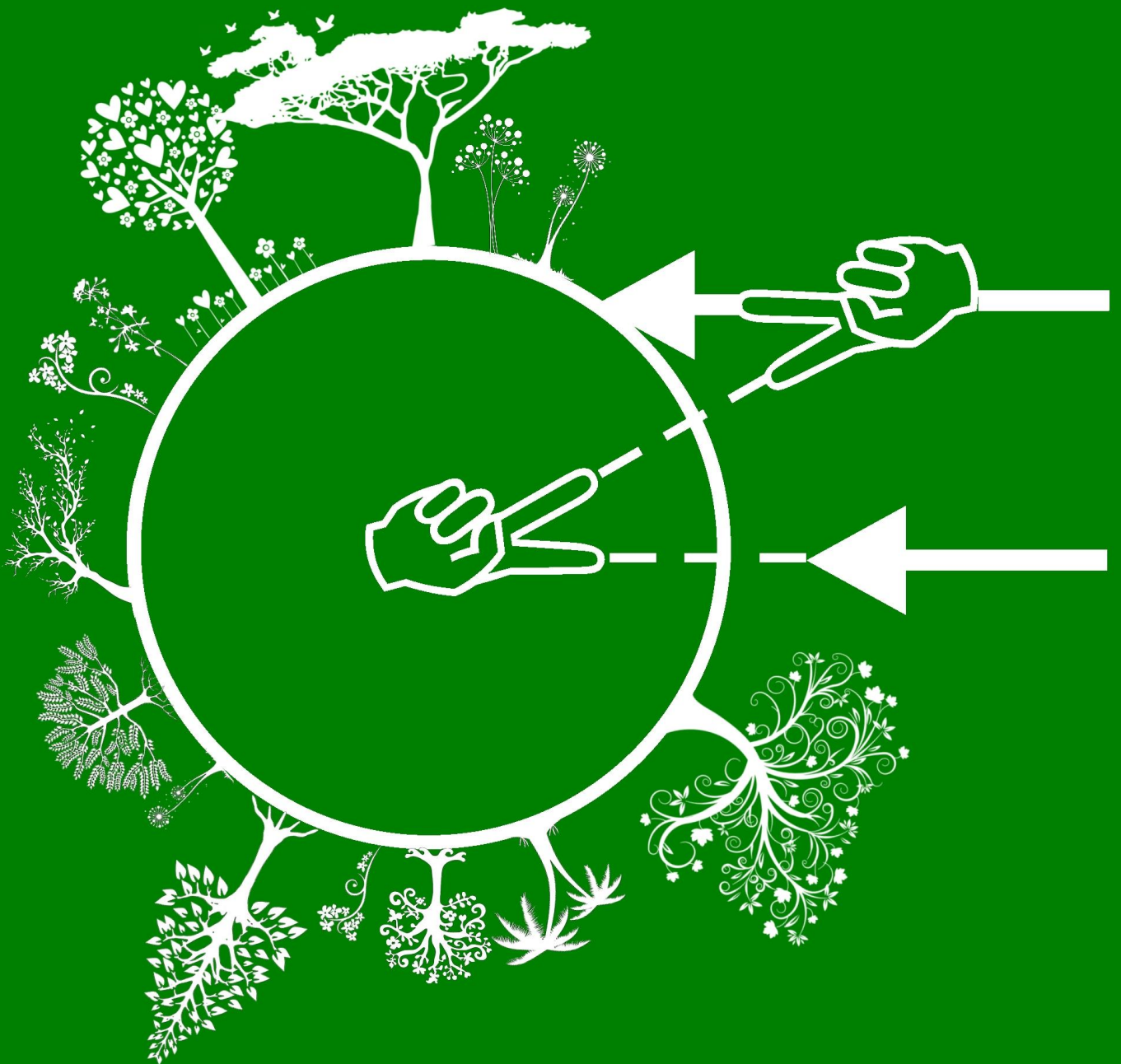


Eratostrhenes



march 2016


Asia

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Shenzhen	China	荔園小學南校區	22.549	114.092
	Kuantan	Malaysia	SMK St Thomas	3.817	103.333
	HôChiMinhCity	Vietnam	Ngoi Sao High School	10.749	106.614
	HôChiMinhCity	Vietnam	Phú Nhuận High School	10.809	106.676
	HôChiMinhCity	Vietnam	Trần Khai Nguyên High School	10.759	106.669
	Yamunanagar	India	C V Raman Science Club	30.117	77.250
	Yamunanagar	India	Holy Mother Public School	30.145	77.268
	Yamunanagar	India	Govt. Senior Secondary School Alahar	30.033	77.200
	Kaohsiung	Taiwan	鳳西國中 FXM	22.621	120.354

Shenzhen, China

March 2016

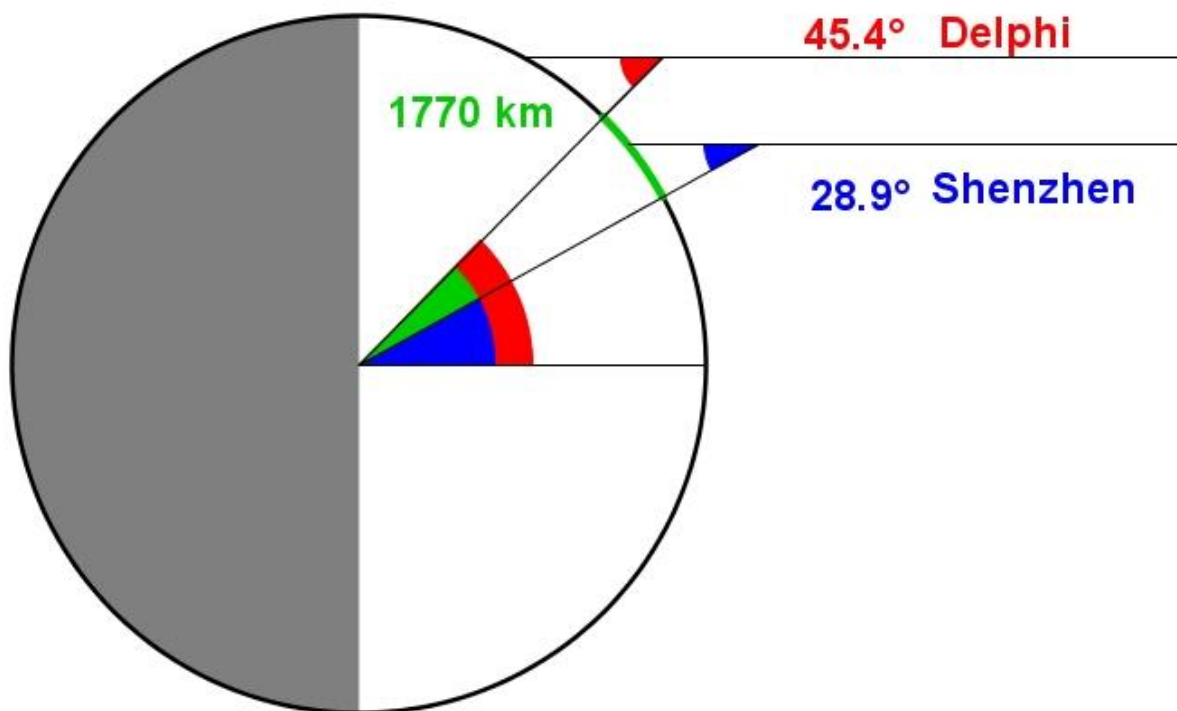


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Shenzhen	China	荔園小學南校區	22.549	114.092

Date	Gnomon	Shadow	Angle
05 March	50 cm	27.6 cm	28.9°

05 March 2016 (Delphi-GREECE) Latitude: 38.482°

05 March 2016 (Shenzhen-CHINA) Latitude: 22.549°




$$\text{circumference} = \frac{360^\circ \times 1770 \text{ km}}{45.4^\circ - 28.9^\circ} = 38618 \text{ km}$$



Kuantan, Malaysia

March 2016

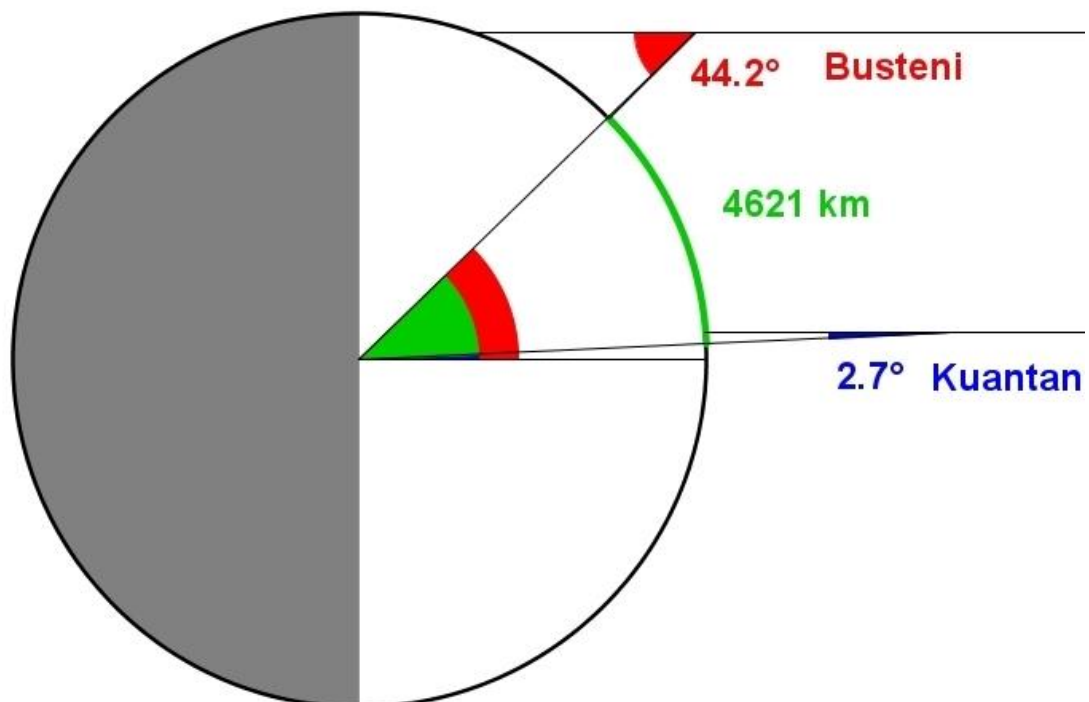


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kuantan	Malaysia	SMK St Thomas	3.817	103.333

Date	Gnomon	Shadow	Angle
04 March	55 cm	7.6 cm	7.9°
17 March	77.5 cm	7.0 cm	5.2°
18 March	31.5 cm	2.9 cm	5.3°
19 March	77.5 cm	5.5 cm	4.1°
20 March	77.5 cm	5.3 cm	3.9°
23 March	34.5 cm	1.6 cm	2.7°
29 March	95.0 cm	0.4 cm	0.2°

23 March 2016 (Busteni-ROMANIA) Latitude 45.416

23 March 2016 (Kuantan- MALAYSIA) Latitude 3.827




$$\text{circumference} = \frac{360^\circ \times 4621 \text{ km}}{44.2^\circ - 2.7^\circ} = 40086 \text{ km}$$



Hồ Chí Minh City NS, Vietnam

March 2016

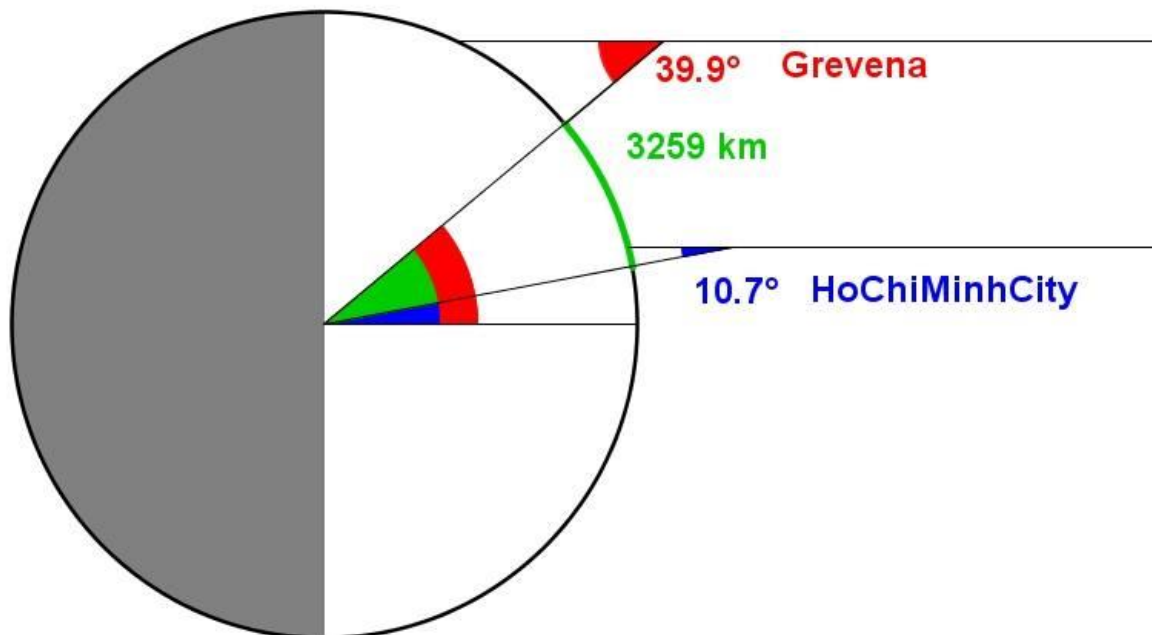


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	HồChíMinhCity	Vietnam	Ngoi Sao High School	10.749	106.614

Date	Gnomon	Shadow	Angle
21 March	49 cm	9.3 cm	10.7°

21 March 2016 (Grevena-GREECE) Latitude: 40.086°

21 March 2016 (HoChiMinhCity-VIETNAM) Latitude: 10.749°



$$\text{circumference} = \frac{360^\circ \times 3259 \text{ km}}{39.9^\circ - 10.7^\circ} = 40179 \text{ km}$$



Hồ Chí Minh City PN, Vietnam

March 2016

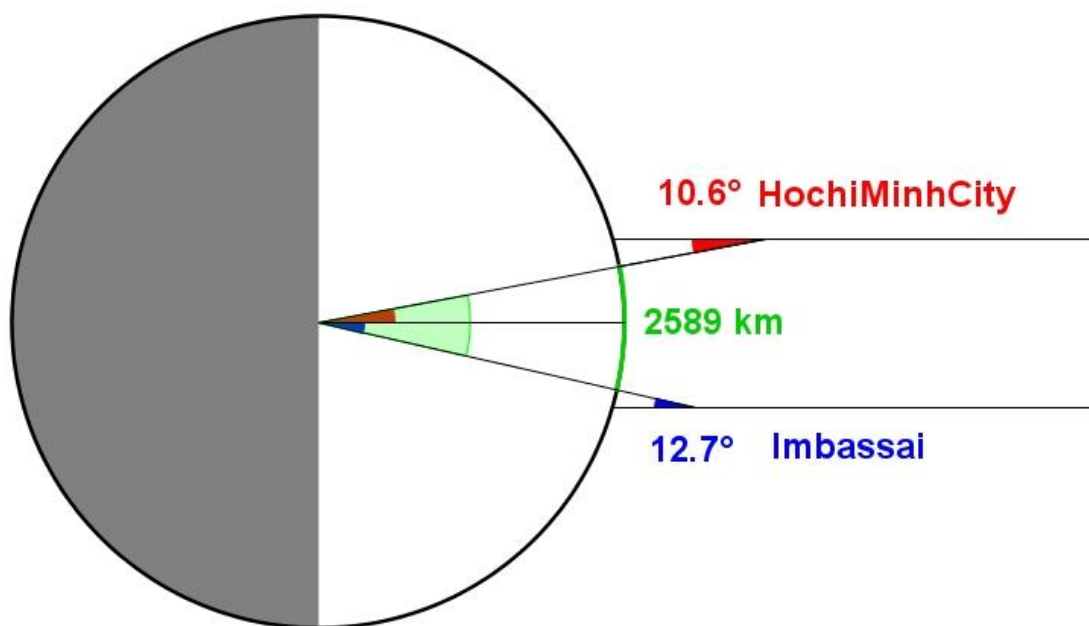


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	HồChiMinhCity	Vietnam	Phú Nhuận High School	10.809	106.676

Date	Gnomon	Shadow	Angle
20 March	69.5 cm	13 cm	10.6°

20 March 2016 (HochiMinhCity-VIETNAM) Latitude: 10.809

20 March 2016 (Imbassai-BRASIL) Latitude: -12.491



$$\text{circumference} = \frac{360^\circ \times 2589 \text{ km}}{10.6^\circ + 12.7^\circ} = 40002 \text{ km}$$



Hồ Chí Minh City TKN, Vietnam

March 2016

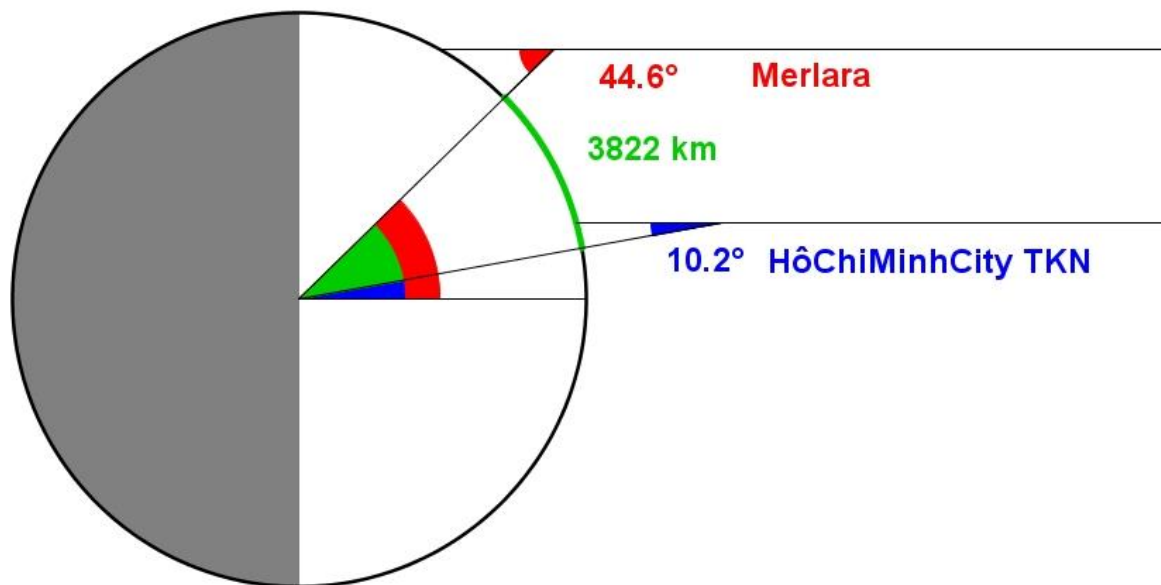


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	HồChíMinhCity	Vietnam	Trần Khai Nguyên High School	10.759	106.669

Date	Gnomon	Shadow	Angle
21 March	67.8 cm	12.2 cm	10.2°

21 March 2016 (Merlara-ITALY) Latitude: 45.163°

21 March 2016 (HồChíMinhCity TKN -VIETNAM) Latitude: 10.758°



$$\text{circumference} = \frac{360^\circ \times 3822 \text{ km}}{44.6^\circ - 10.2^\circ} = 39998 \text{ km}$$



Yamunanagar Alahar, India

March 2016

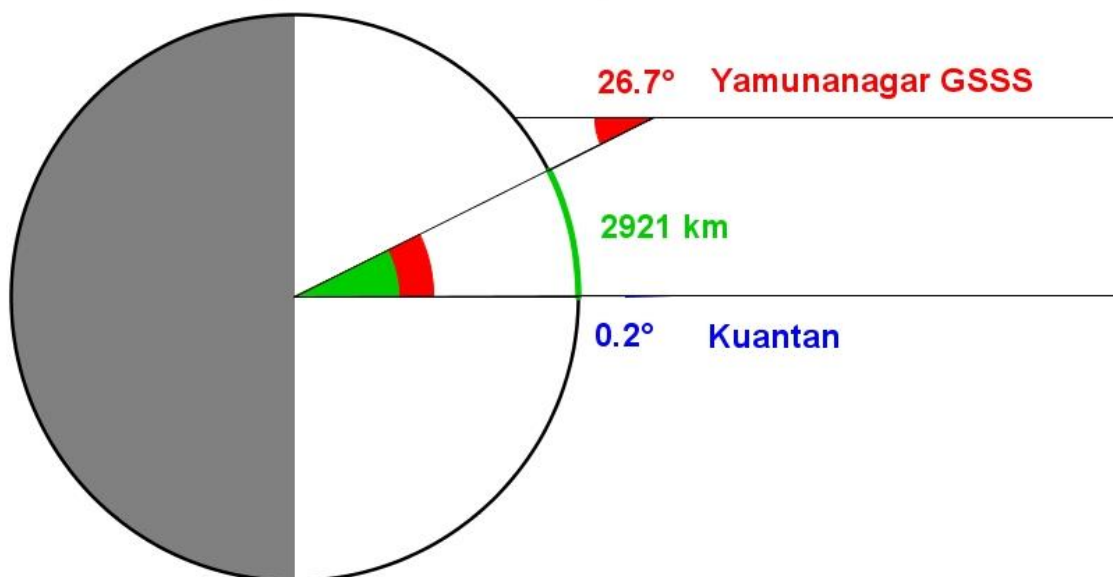


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Yamunanagar	India	Govt. Senior Secondary School Alahar	30.033	77.200

Date	Gnomon	Shadow	Angle
29 March	59.0 cm	29.7 cm	26.7°

29 March 2016 (Yamunanagar GSSS -INDIA) Latitude: 30.12°

29 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827°



$$\text{circumference} = \frac{360^\circ \times 2921 \text{ km}}{26.7^\circ - 0.2^\circ} = 39682 \text{ km}$$



Yamunanagar cv Raman, India

March 2016

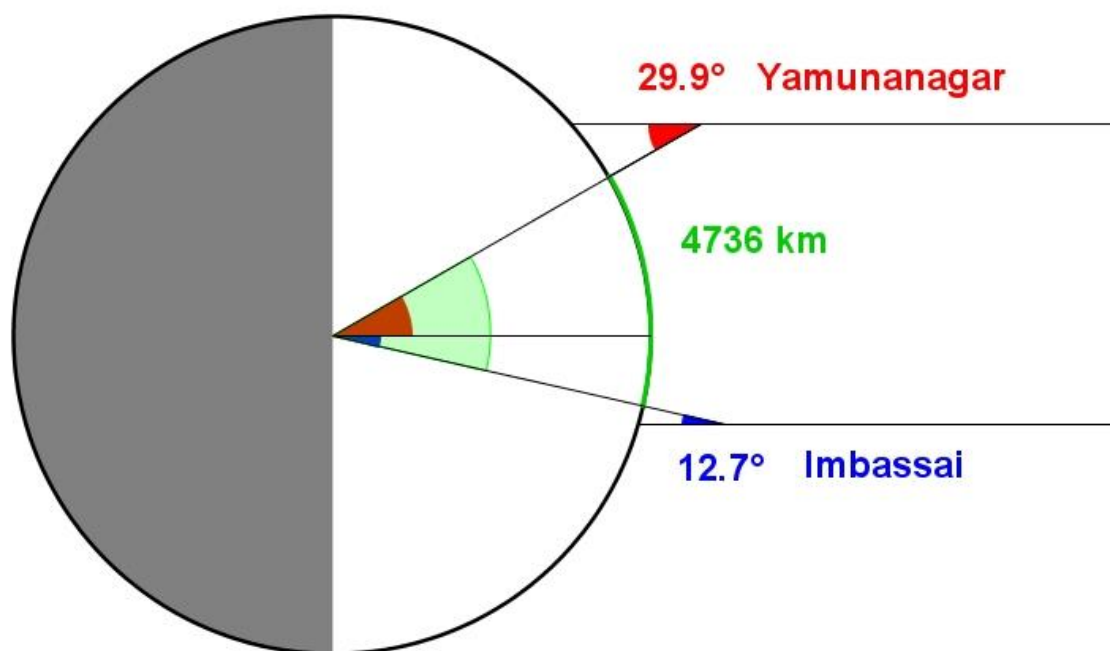


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Yamunanagar	India	C V Raman Science Club	30.117	77.250

Date	Gnomon	Shadow	Angle
20 March	24 cm	13.8 cm	29.9°

20 March 2016 (Yamunanagar-INDIA) Latitude: 30.133

20 March 2016 (Imbassai-BRASIL) Latitude: -12.491



$$\text{circumference} = \frac{360^\circ \times 4736 \text{ km}}{29.9^\circ + 12.7^\circ} = 40023 \text{ km}$$



Yamunanagar hmps, India

March 2016

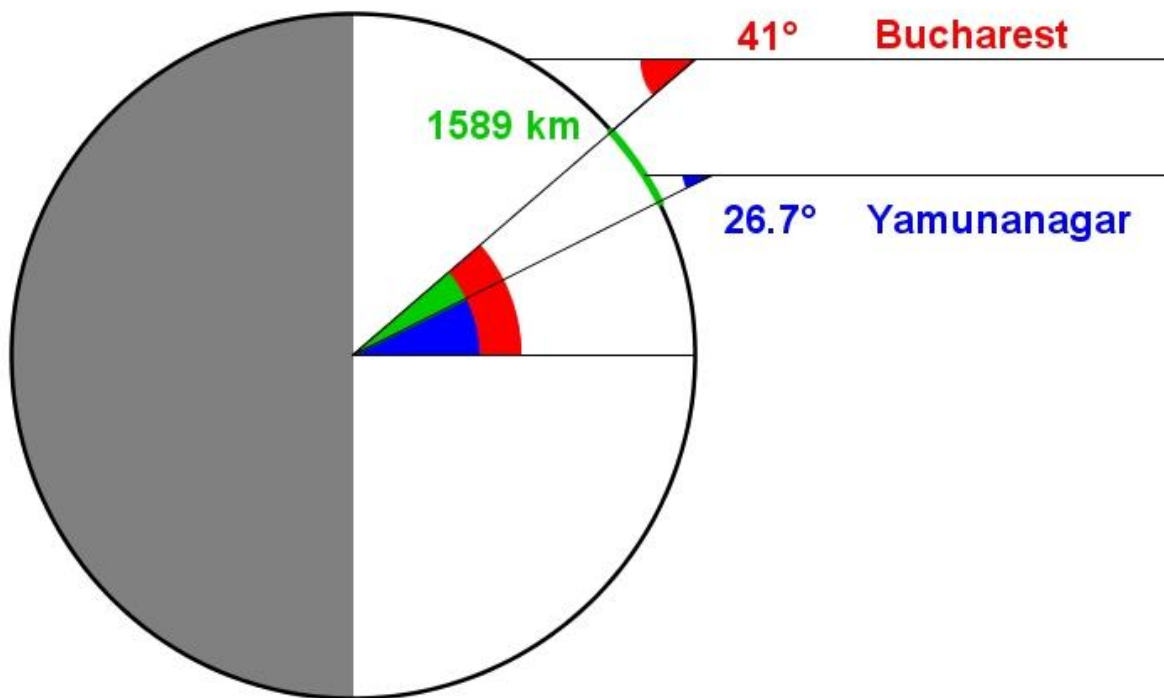


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Yamunanagar	India	Holy Mother Public School	30.145	77.268

Date	Gnomon	Shadow	Angle
28 March	38 cm	19.1 cm	26.7°

28 March 2016 (Bucharest-ROMANIA) Latitude: 44.443°

28 March 2016 (Yamunanagar-INDIA) Latitude: 30.145°




$$\text{circumference} = \frac{360^\circ \times 1589 \text{ km}}{41^\circ - 26.7^\circ} = 40003 \text{ km}$$



Kaohsiung FXM, Taiwan

March 2016

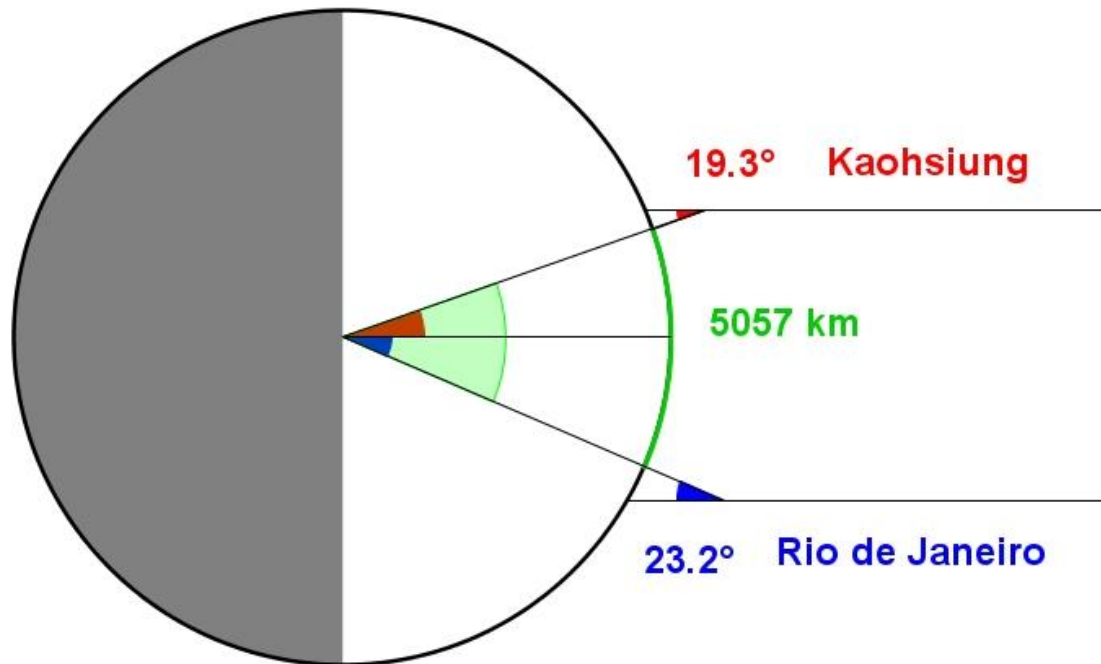


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kaohsiung	Taiwan	鳳西國中 FXM	22.621	120.354

Date	Gnomon	Shadow	Angle
20 March	200 cm	70 cm	19.3°

20 March 2016 (Kaohsiung-TAIWAN) Latitude: 22.621




20 March 2016 (Rio de Janeiro-BRAZIL) Latitude: -22.895



$$\text{circumference} = \frac{360^\circ \times 5057 \text{ km}}{19.3^\circ + 23.2^\circ} = 42836 \text{ km}$$



America

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400
	Imbassai	Brazil	Fundación Caminos de Anisacate	-12.491	-37.955
	Maricá	Brazil	Escola Municipal Carlos Magno	-22.919	-42.819
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317
	Rio de Janeiro	Brazil	VOE Vila Olímpica do Encantado	-22.894	-43.300
	Rio de Janeiro	Brazil	Prefeitura	-22.911	-43.206
	Rio de Janeiro	Brazil	Campo do Santana	-22.907	-43.189
	Rio de Janeiro	Brazil	Museu do Amanhã	-22.895	-43.182
	Rio de Janeiro	Brazil	Theatro Municipal	-22.909	-43.179
	Paysandú	Uruguay	Liceo N° 1 de Paysandú	-32.316	-58.093

Anisacate, Argentina

March 2016

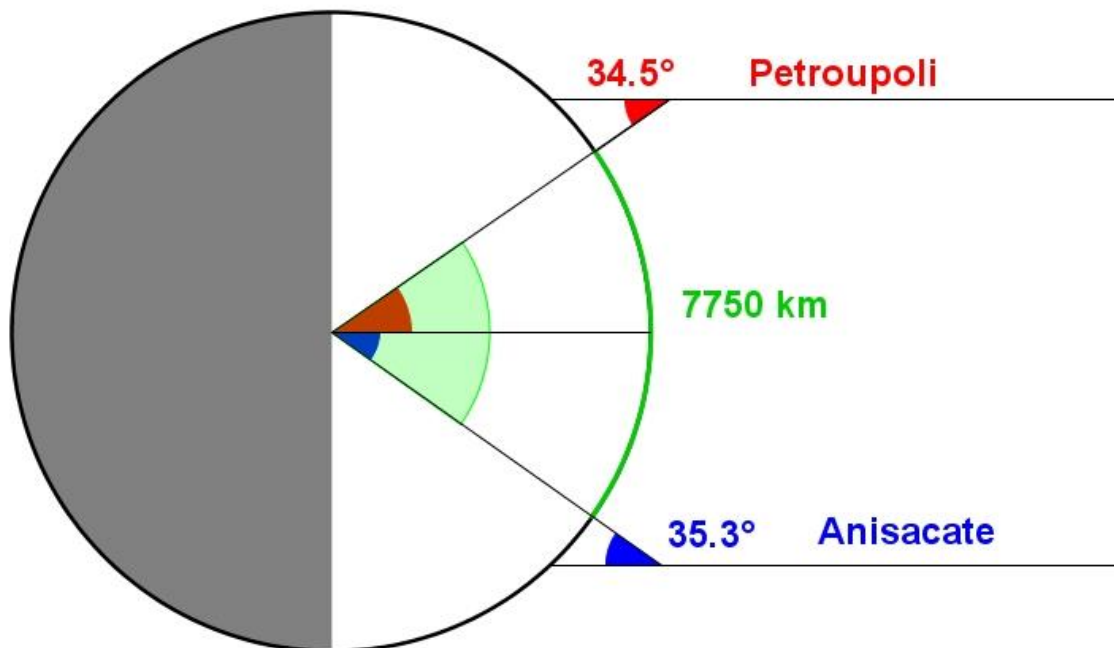


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Anisacate	Argentina	Fundación Caminos de Anisacate	-31.717	-64.400

Date	Gnomon	Shadow	Angle
03 March	100 cm	-47.4 cm	-25.4°
09 March	100 cm	-52.5 cm	-27.7°
11 March	100 cm	-55.0 cm	-28.8°
14 March	100 cm	-57.4 cm	-29.9°
28 March	100 cm	-70.8 cm	-35.3°
29 March	100 cm	-71.8 cm	-35.7°
31 March	100 cm	-73.7 cm	-36.4°

28 March 2016 (Petroupoli-GREECE) Latitude: 38.036

28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 7750 \text{ km}}{34.5^\circ + 35.3^\circ} = 39971 \text{ km}$$



Imbassai, Brazil

March 2016

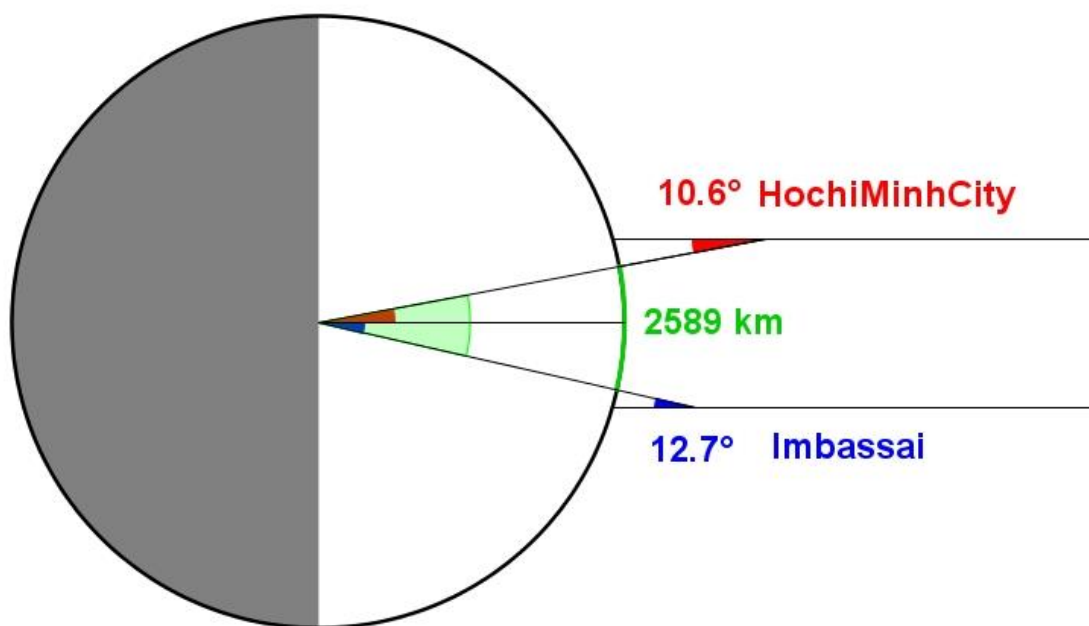


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Imbassai	Brazil	Fundación Caminos de Anisacate	-12.491	-37.955

Date	Gnomon	Shadow	Angle
17 March	80 cm	-19.0 cm	-13.4°
18 March	80 cm	-17.6 cm	-12.4°
19 March	80 cm	-18.7 cm	-13.2°
20 March	80 cm	-18.0 cm	-12.7°
21 March	80 cm	-19.0 cm	-13.4°

20 March 2016 (HochiMinhCity-VIETNAM) Latitude: 10.809

20 March 2016 (Imbassai-BRASIL) Latitude: -12.491




$$\text{circumference} = \frac{360^\circ \times 2589 \text{ km}}{10.6^\circ + 12.7^\circ} = 40002 \text{ km}$$



Maricá, Brazil

March 2016

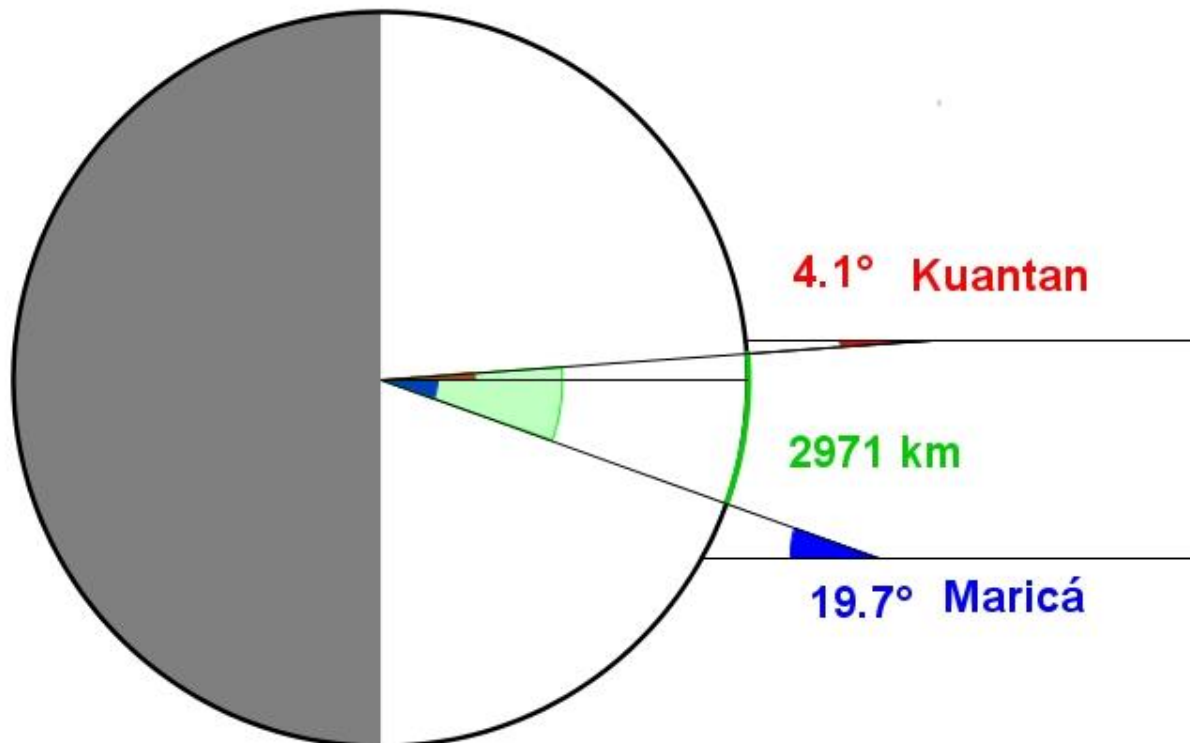


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Maricá	Brazil	Escola Municipal Carlos Magno	-22.919	-42.819

Date	Gnomon	Shadow	Angle
19 March	56 cm	-20 cm	-16.7°

19 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827 °

19 March 2016 (Maricá -BRAZIL) Latitude: -22.919 °




$$\text{circumference} = \frac{360^\circ \times 2971 \text{ km}}{4.1^\circ + 19.7^\circ} = 44939 \text{ km}$$



Rio de Janeiro Santana, Brazil

March 2016

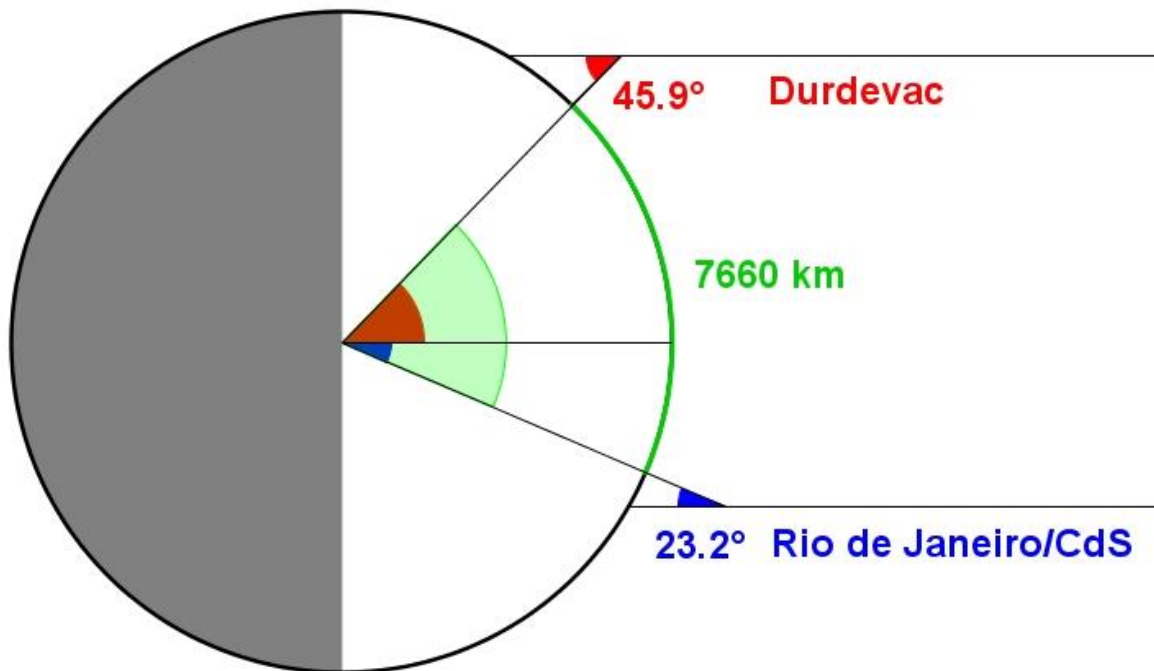


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Campo do Santana	-22.907	-43.189

Date	Gnomon	Shadow	Angle
18 March	56 cm	-24 cm	-23.2°

18 March 2016 (Durdevac-CROATIA 46.038)

18 March 2016 (Rio de Janeiro/CdS-BRASIL -22.907)



$$\text{circumference} = \frac{360^\circ \times 7660 \text{ km}}{45.9^\circ + 23.2^\circ} = 39907 \text{ km}$$



Rio de Janeiro CENOM, Brazil

March 2016

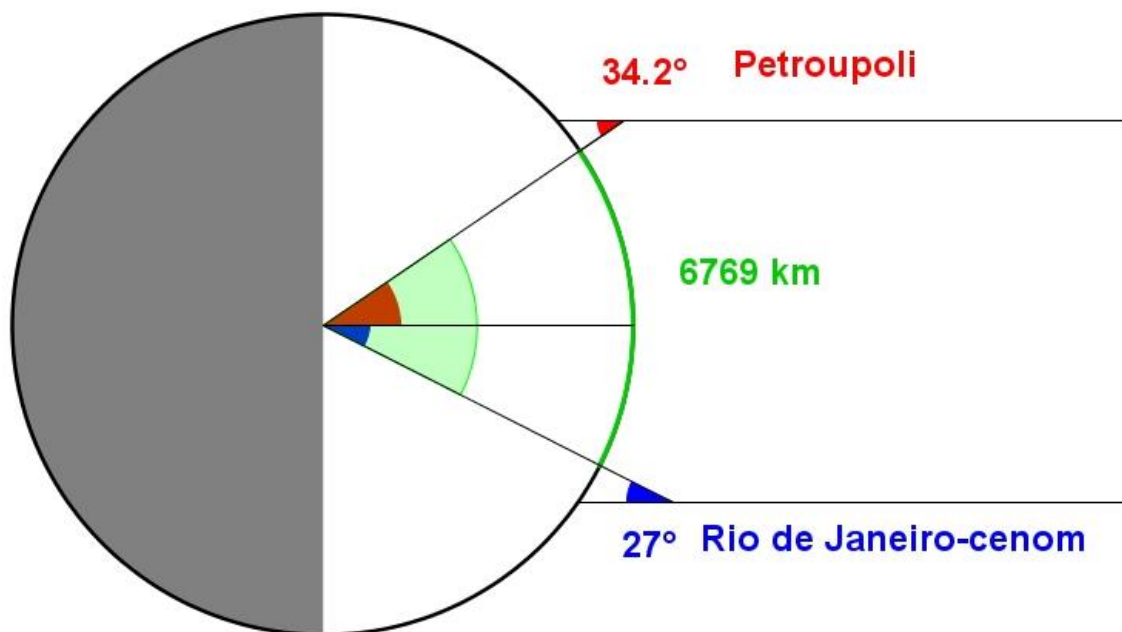


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317

Date	Gnomon	Shadow	Angle
10 March	50 cm	-20 cm	-21.8°
28 March	32.5 cm	-17 cm	-27.6°
29 March	100 cm	-51 cm	-27.0°

29 March 2016 (Petroupoli-GREECE) Latitude: 38.036

29 March 2016 (Rio de Janeiro-cenom-BRASIL) Latitude: -22.89




$$\text{circumference} = \frac{360^\circ \times 6769 \text{ km}}{34.2^\circ + 27^\circ} = 39818 \text{ km}$$



Rio de Janeiro Amanhã, Brazil

March 2016

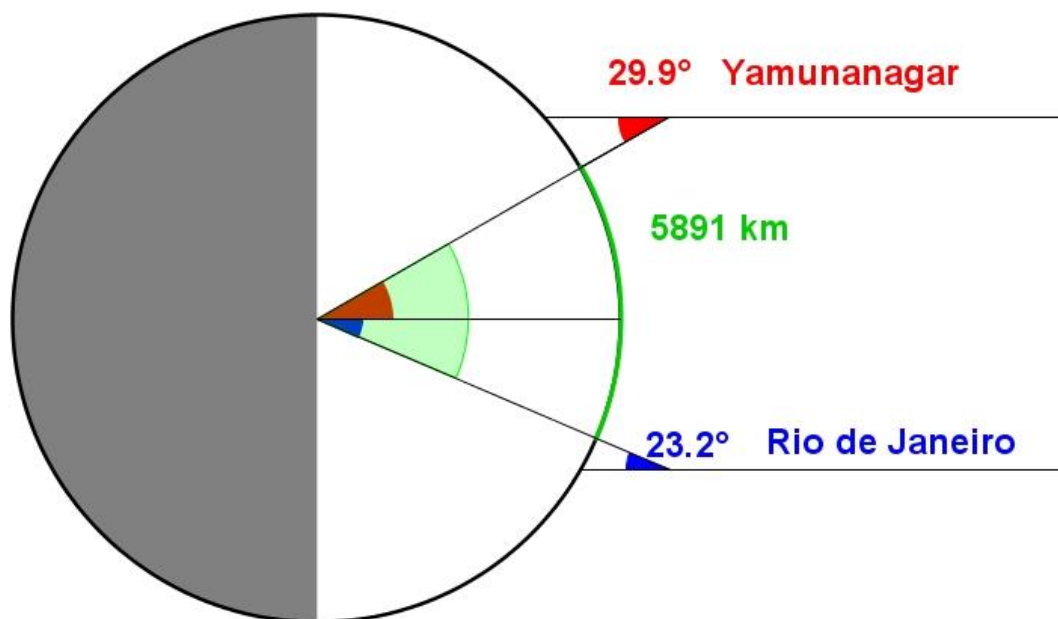


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Museu do Amanhã	-22.895	-43.182

Date	Gnomon	Shadow	Angle
20 March	280 cm	-120 cm	-23.2°

20 March 2016 (Yamunanagar-INDIA) Latitude: 30.133

20 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.895




$$\text{circumference} = \frac{360^\circ \times 5891 \text{ km}}{29.9^\circ + 23.2^\circ} = 39939 \text{ km}$$



Rio de Janeiro Prefeitura, Brazil

March 2016

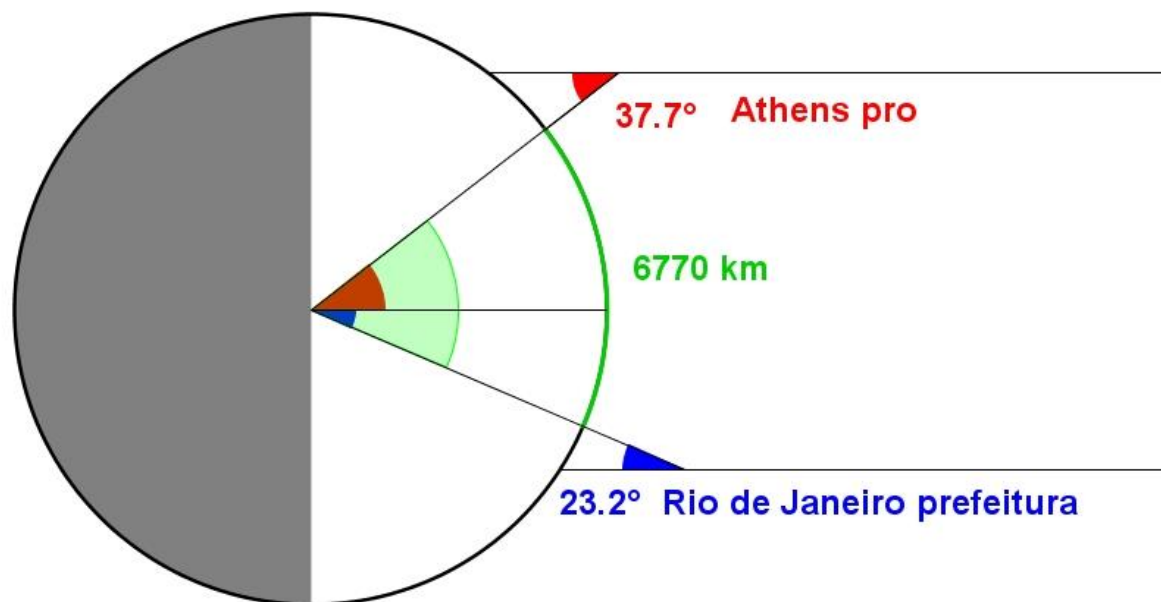


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Prefeitura	-22.911	-43.206

Date	Gnomon	Shadow	Angle
21 March	56 cm	-24 cm	-23.2°

21 March 2016 (Athens pro-GREECE) Latitude: 38.027

21 March 2016 (Rio de Janeiro prefeitura-BRASIL) Latitude: -22.911



$$\text{circumference} = \frac{360^\circ \times 6770 \text{ km}}{37.7^\circ + 23.2^\circ} = 40020 \text{ km}$$



Rio de Janeiro Theatro Municipal, Brazil



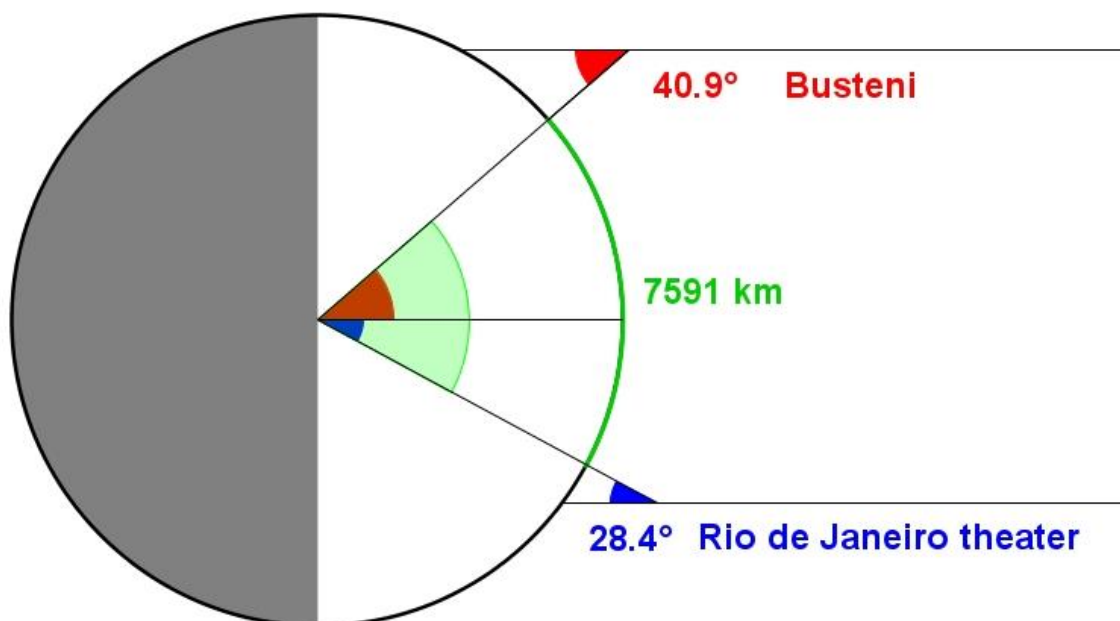
March 2016

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Theatro Municipal	-22.909	-43.179

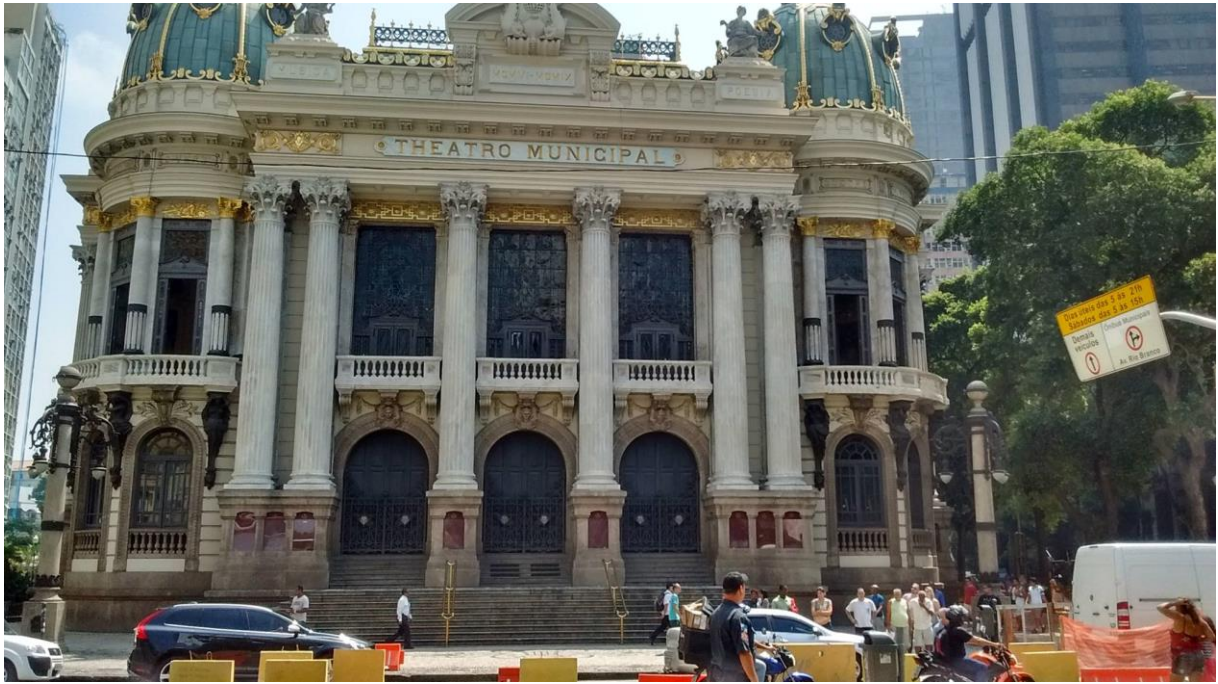
Date	Gnomon	Shadow	Angle
31 March	100 cm	-54.0 cm	-28.4°

31 March 2016 (Busteni-ROMANIA) Latitude: 45.416

31 March 2016 (Rio de Janeiro theater-BRASIL) Latitude: -22.909




$$\text{circumference} = \frac{360^\circ \times 7591 \text{ km}}{40.9^\circ + 28.4^\circ} = 39434 \text{ km}$$



Rio de Janeiro VOE, Brazil

March 2016

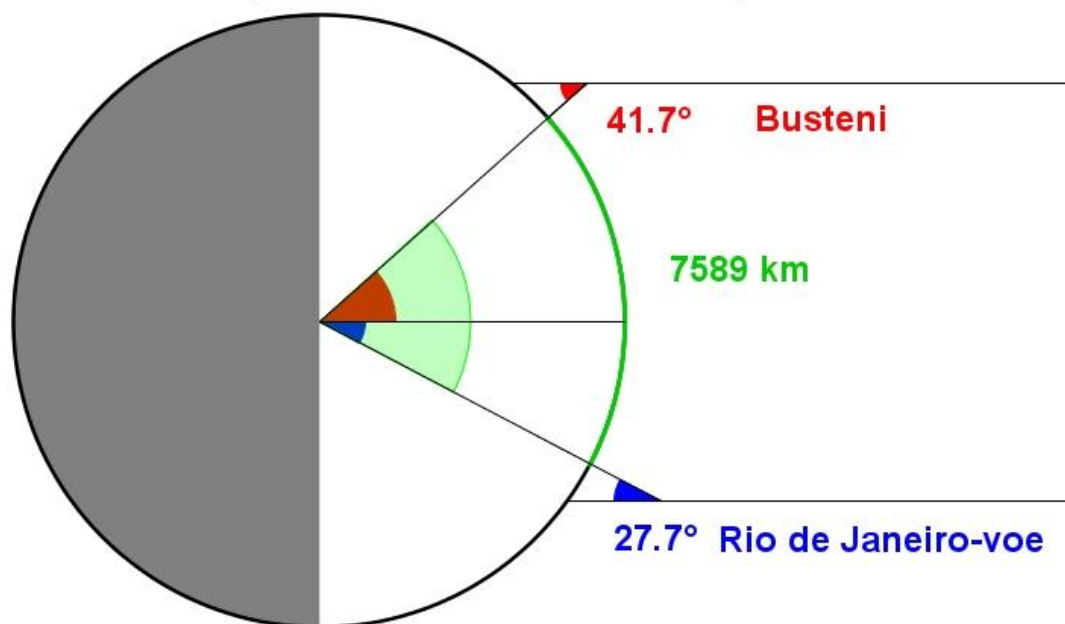


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	VOE Vila Olímpica do Encantado	-22.894	-43.300

Date	Gnomon	Shadow	Angle
12 March	34 cm	-15 cm	-23.8°
29 March	120 cm	-63 cm	-27.7°

29 March 2016 (Busteni-ROMANIA) Latitude: 45.416

29 March 2016 (Rio de Janeiro-voe-BRASIL) Latitude: -22.894



$$\text{circumference} = \frac{360^\circ \times 7589 \text{ km}}{41.7^\circ + 27.7^\circ} = 39367 \text{ km}$$



Paysandú, Uruguay

March 2016

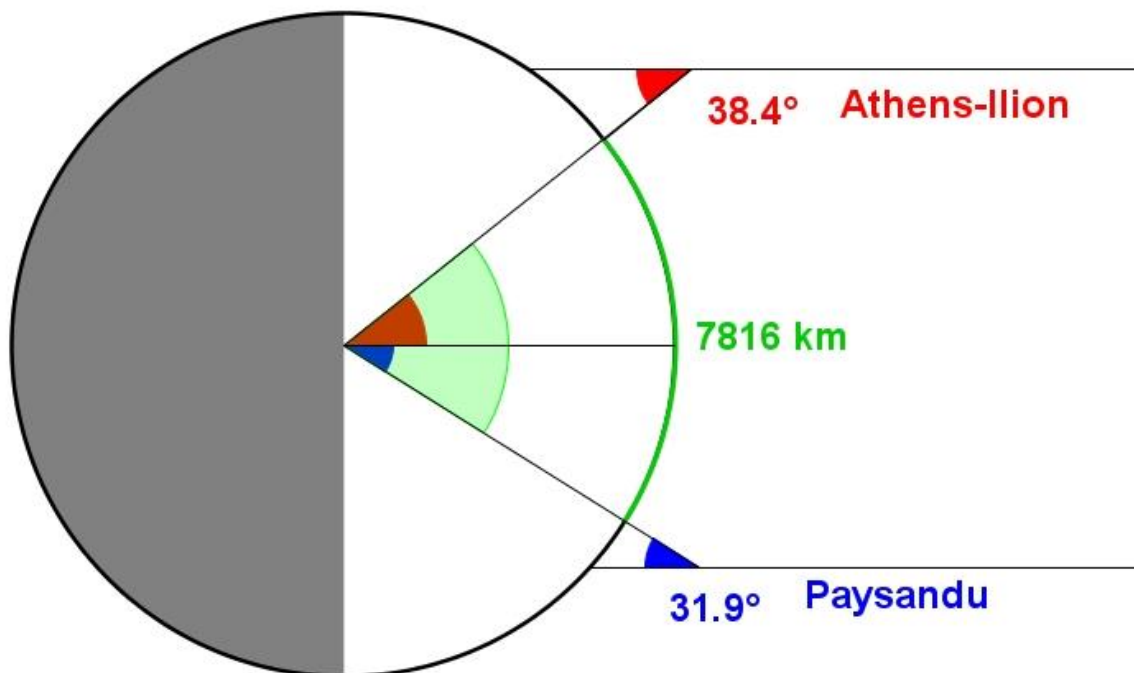


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Paysandú	Uruguay	Liceo N°1 de Paysandú	-32.316	-58.093

Date	Gnomon	Shadow	Angle
21 March	90 cm	-58.5 cm	-31.9°

21 March 2016 (Athens-Ilion-GREECE) Latitude: 38.037

21 March 2016 (Paysandu-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360^\circ \times 7816 \text{ km}}{38.4^\circ + 31.9^\circ} = 40025 \text{ km}$$




Africa

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

Sfax, Tunisia

March 2016

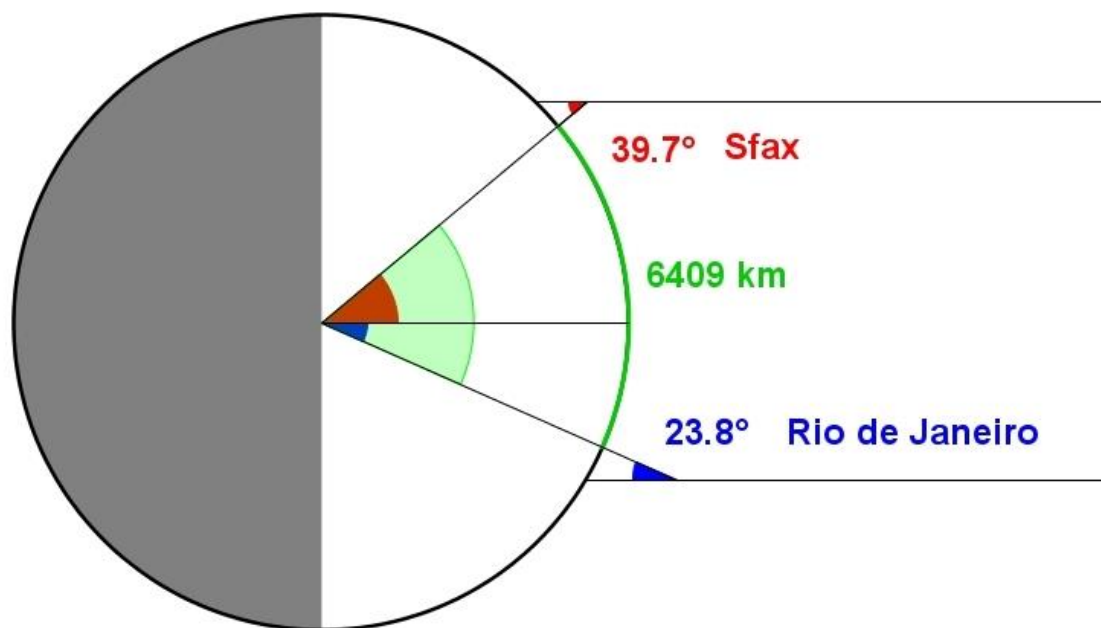


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Sfax	Tunisia	école de Sakiét Eddayer	34.789	10.780

Date	Gnomon	Shadow	Angle
12 March	100 cm	83 cm	39.7°

12 March 2016 (Sfax-TUNISIA) Latitude: 34.789

12 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.894



$$\text{circumference} = \frac{360^\circ \times 6409 \text{ km}}{39.7^\circ + 23.8^\circ} = 36334 \text{ km}$$




Europe

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079
	Ano Komi	Greece	Ano Komi Kozanis	40.226	21.831
	Athens	Greece	Museum Ancient Greek Technology	38.065	23.716
	Athens	Greece	3rd Junior High School of Ilion	38.037	23.712
	Athens	Greece	Experimental College Agion Anargyron	38.027	23.726
	Chania	Greece	Primary School DDMN	35.485	24.082
	Delphi	Greece	Delphi Ancient Theater	38.482	22.501
	Athens	Greece	Emotions Museum of Childhood	37.966	23.723
	Grevena	Greece	2nd primary of Grevena	40.086	21.424
	Ioannina	Greece	Experimental College	39.666	20.845
	Komotini	Greece	3rd Junior High School Komotini	41.121	25.394
	Paranesti	Greece	Secondary School of Paranesti	41.267	24.499
	Pastida	Greece	Primary School of Pastida	36.385	28.138
	Petroupoli	Greece	4o Junior High School	38.036	23.674
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655
	Pylos	Greece	1st Kindergarten of Pylos	36.911	21.694
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415
	Donji Muć	Croatia	oš kneza Branimira	43.694	16.462
	Dugo Selo	Croatia	Elementary School Josipa Zorica	45.804	16.243
	Đurđevac	Croatia	High school Gimnazija Dr. Ivana Kranjčeva	46.039	25.535
	Neoric	Croatia	OŠ Neorić - Sutina	43.686	16.520
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.163	11.446
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031
	Bucharest	Romania	Iulia Hasdeu National College	44.443	26.127
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535
	Caracal	Romania	GH Magheru School	44.113	24.347
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554

Ano Komi, Greece

March 2016

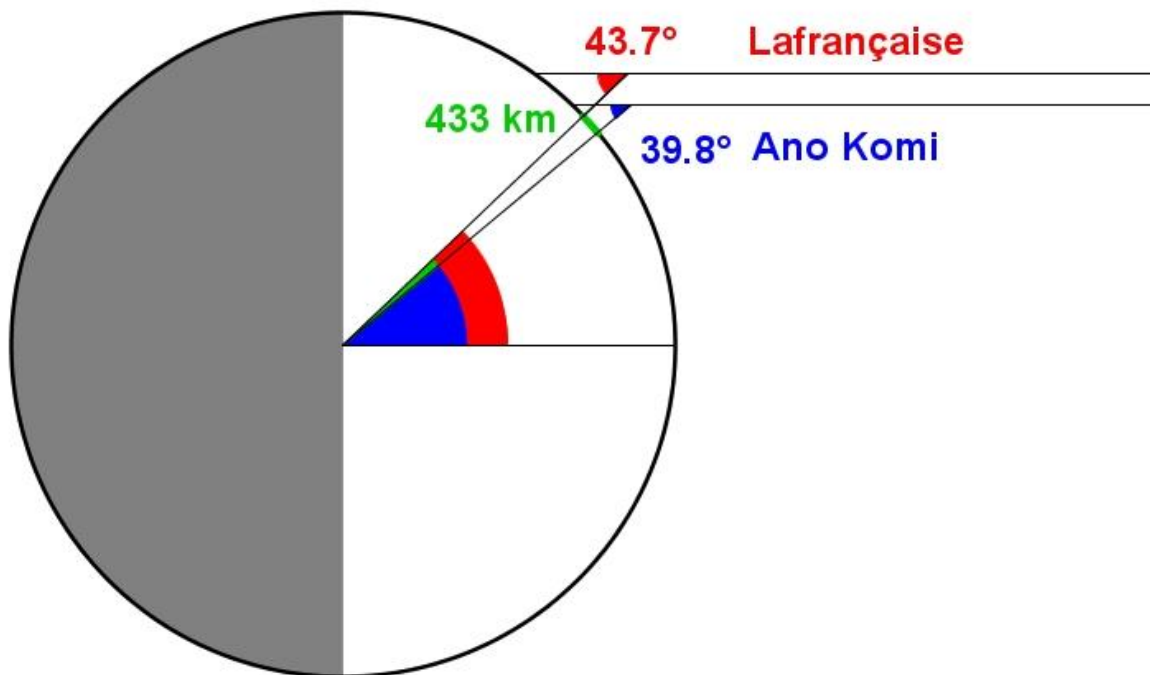


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ano Komi	Greece	Ano Komi Kozanis	40.226	21.831

Date	Gnomon	Shadow	Angle
21 March	100 cm	83.2 cm	39.8°

21 March 2016 (Lafrançaise-FRANCE) Latitude: 44.127°

21 March 2016 (Ano Komi-GREECE) Latitude: 40.226°




$$\text{circumference} = \frac{360^\circ \times 433 \text{ km}}{43.7^\circ - 39.8^\circ} = 39969 \text{ km}$$



Aigio, Greece

March 2016

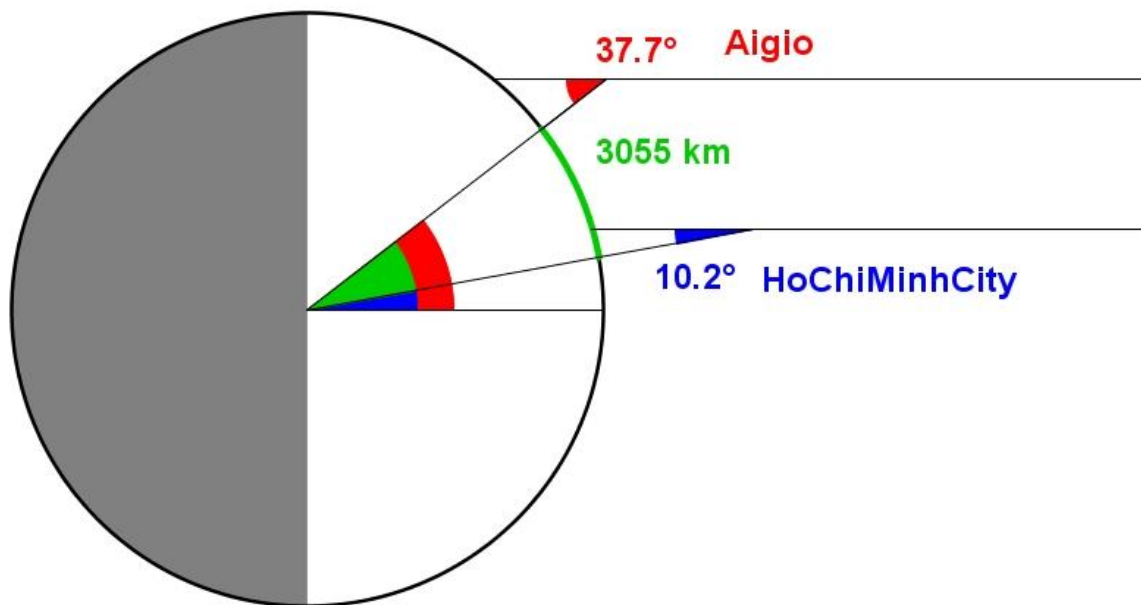


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Aigio	Greece	1st High School of Aigio	38.252	22.079

Date	Gnomon	Shadow	Angle
01 March	50 cm	51 cm	45.6°
03 March	48.5 cm	51 cm	44.7°
10 March	45.1 cm	51 cm	42.1°
21 March	38.7 cm	51 cm	37.7°

21 March 2016 (Aigio-GREECE) Latitude: 38.252°

21 March 2016 (HoChiMinhCity-VIETNAM) Latitude: 10.758°



$$\text{circumference} = \frac{360^\circ \times 3055 \text{ km}}{37.7^\circ - 10.2^\circ} = 39993 \text{ km}$$



Athens-A, Greece

March 2016

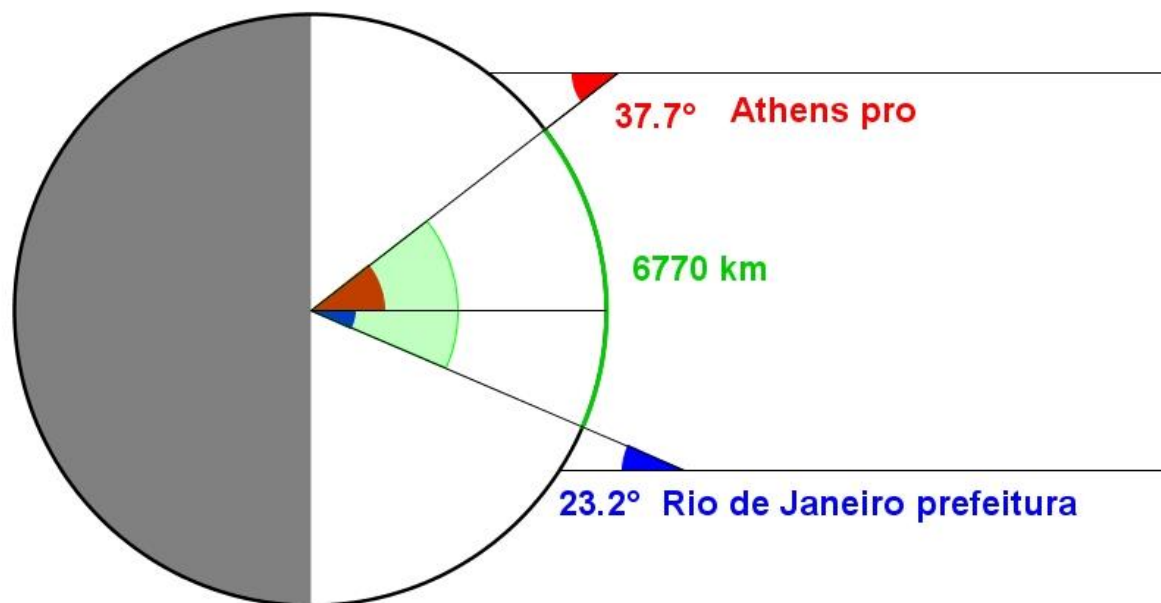


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Experimental College Agion Anargyron	38.027	23.726

Date	Gnomon	Shadow	Angle
18 March	49 cm	38.7 cm	38.3°
21 March	49 cm	37.9 cm	37.7°

21 March 2016 (Athens pro-GREECE) Latitude: 38.027

21 March 2016 (Rio de Janeiro prefeitura-BRASIL) Latitude: -22.911



$$\text{circumference} = \frac{360^\circ \times 6770 \text{ km}}{37.7^\circ + 23.2^\circ} = 40020 \text{ km}$$



Athens AGT, Greece

March 2016

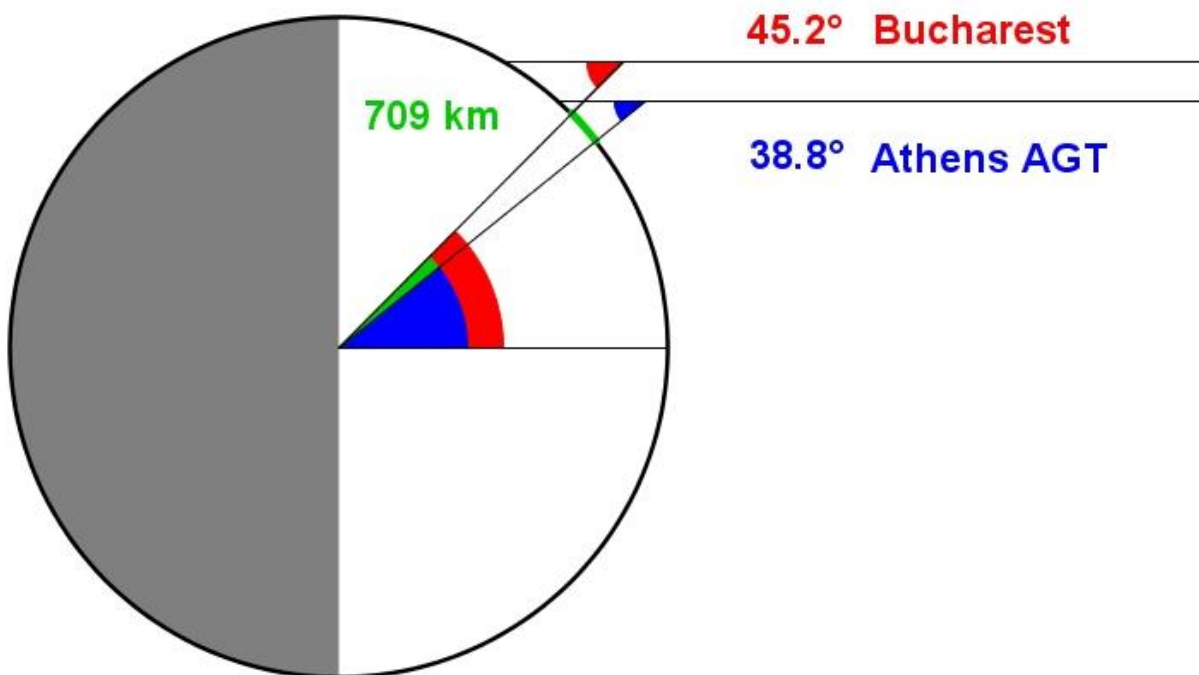


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Museum Ancient Greek Technology	38.065	23.716

Date	Gnomon	Shadow	Angle
18 March	30.4 cm	24.4 cm	38.8°

18 March 2016 (Bucharest-ROMANIA) Latitude: 44.443°

18 March 2016 (Athens AGT-GREECE) Latitude: 38.065°



$$\text{circumference} = \frac{360^\circ \times 709 \text{ km}}{45.2^\circ - 38.8^\circ} = 39881 \text{ km}$$



Athens-I, Greece

March 2016

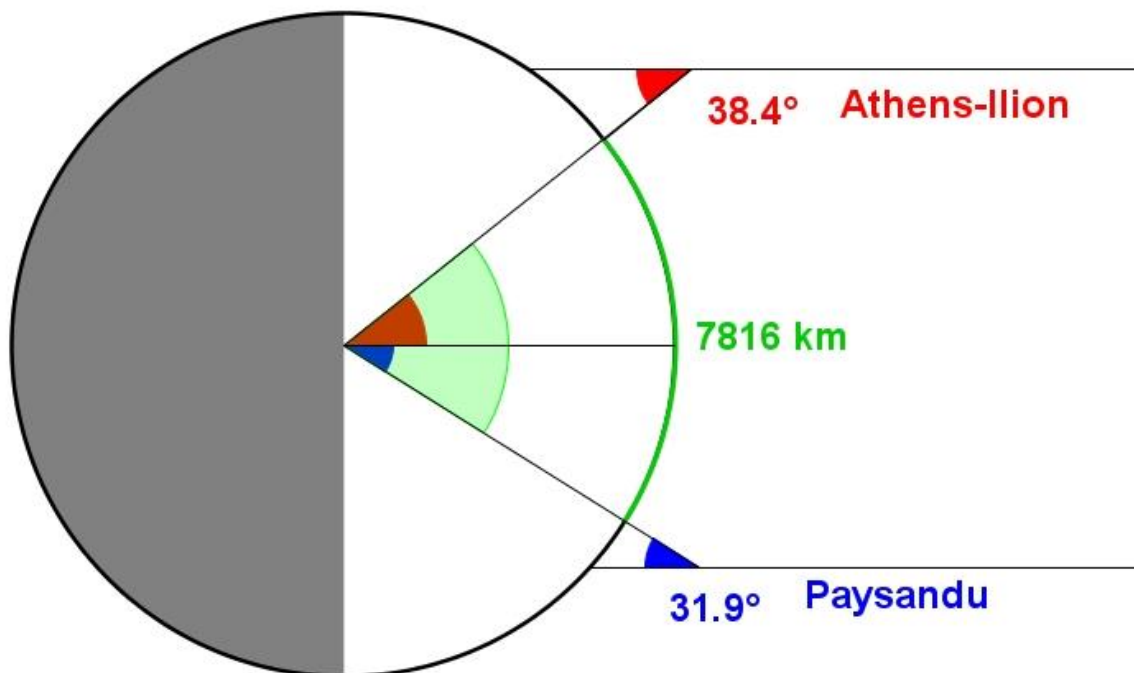


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	3rd Junior High School of Ilion	38.037	23.712

Date	Gnomon	Shadow	Angle
21 March	100 cm	79.2 cm	38.4°

21 March 2016 (Athens-Ilion-GREECE) Latitude: 38.037

21 March 2016 (Paysandu-URUGUAY) Latitude: -32.316



$$\text{circumference} = \frac{360^\circ \times 7816 \text{ km}}{38.4^\circ + 31.9^\circ} = 40025 \text{ km}$$



Athens EMC, Greece

March 2016

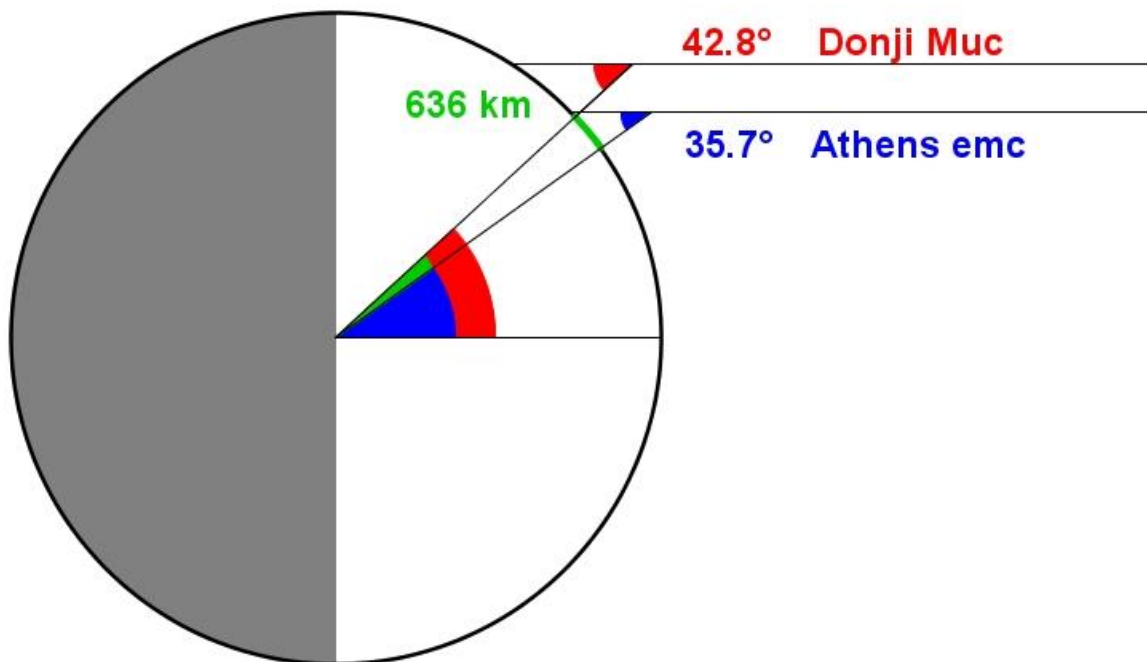


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Emotions Museum of Childhood	37.966	23.723

Date	Gnomon	Shadow	Angle
30 March	53.2 cm	38.2 cm	35.7°

30 March 2016 (Donji Muc-CROATIA) Latitude: 43.694°

30 March 2016 (Athens emc-GREECE) Latitude: 37.966°




$$\text{circumference} = \frac{360^\circ \times 636 \text{ km}}{42.8^\circ - 35.7^\circ} = 32248 \text{ km}$$



Chania, Greece

March 2016

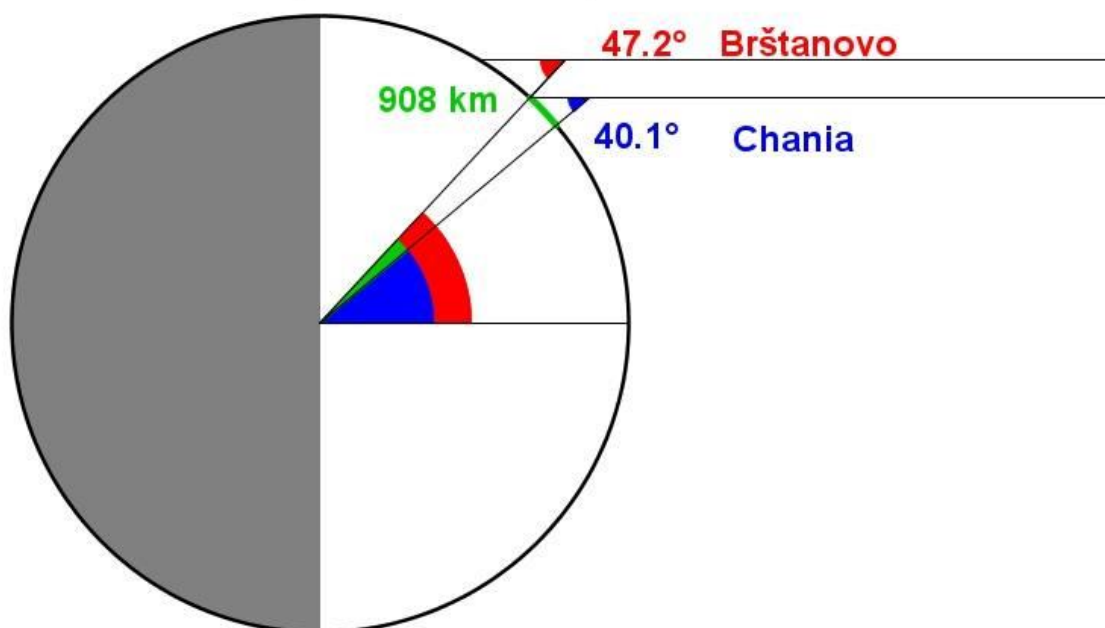


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Chania	Greece	Primary School DDMN	35.485	24.082

Date	Gnomon	Shadow	Angle
15 March	121 cm	107 cm	40.1°

15 March 2016 (Brštanovo-CROATIA) Latitude: 43.658°

15 March 2016 (Chania-GREECE) Latitude: 35.485°




$$\text{circumference} = \frac{360^\circ \times 908 \text{ km}}{47.2^\circ - 40.1^\circ} = 46039 \text{ km}$$



Delphi, Greece

March 2016

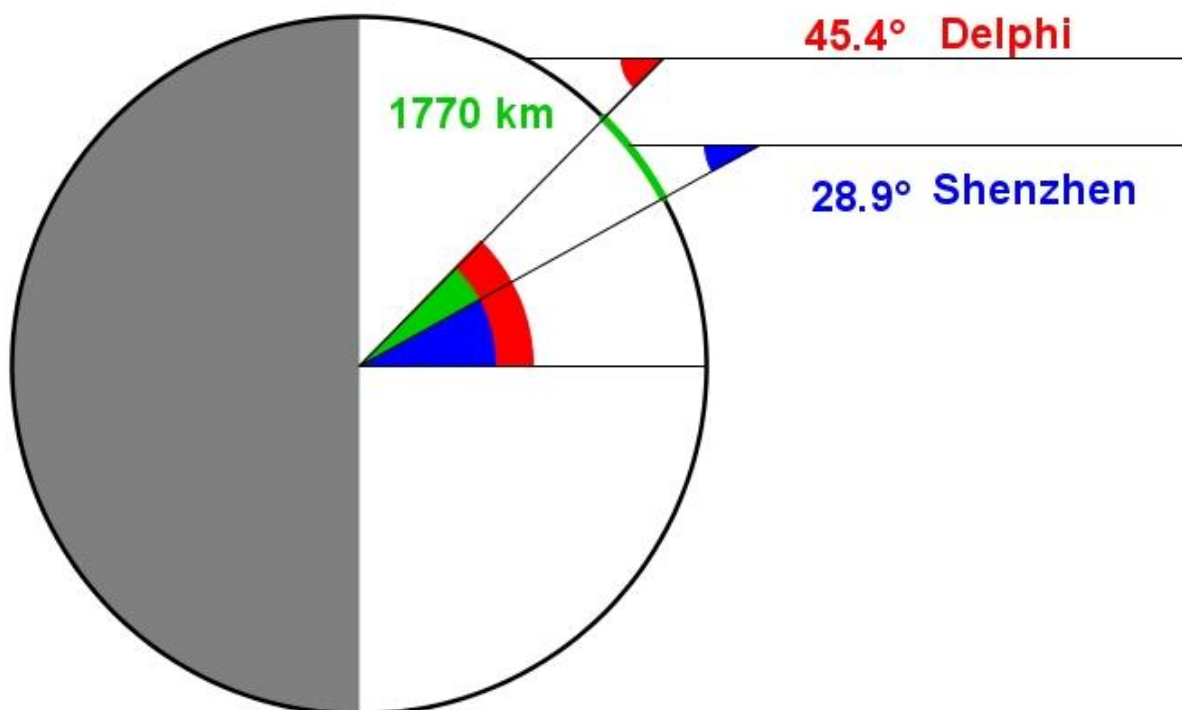


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Delphi	Greece	Delphi Ancient Theater	38.482	22.501

Date	Gnomon	Shadow	Angle
05 March	15 cm	15.2 cm	45.4°

05 March 2016 (Delphi-GREECE) Latitude: 38.482°

05 March 2016 (Shenzhen-CHINA) Latitude: 22.549°




$$\text{circumference} = \frac{360^\circ \times 1770 \text{ km}}{45.4^\circ - 28.9^\circ} = 38618 \text{ km}$$



Grevena, Greece

March 2016

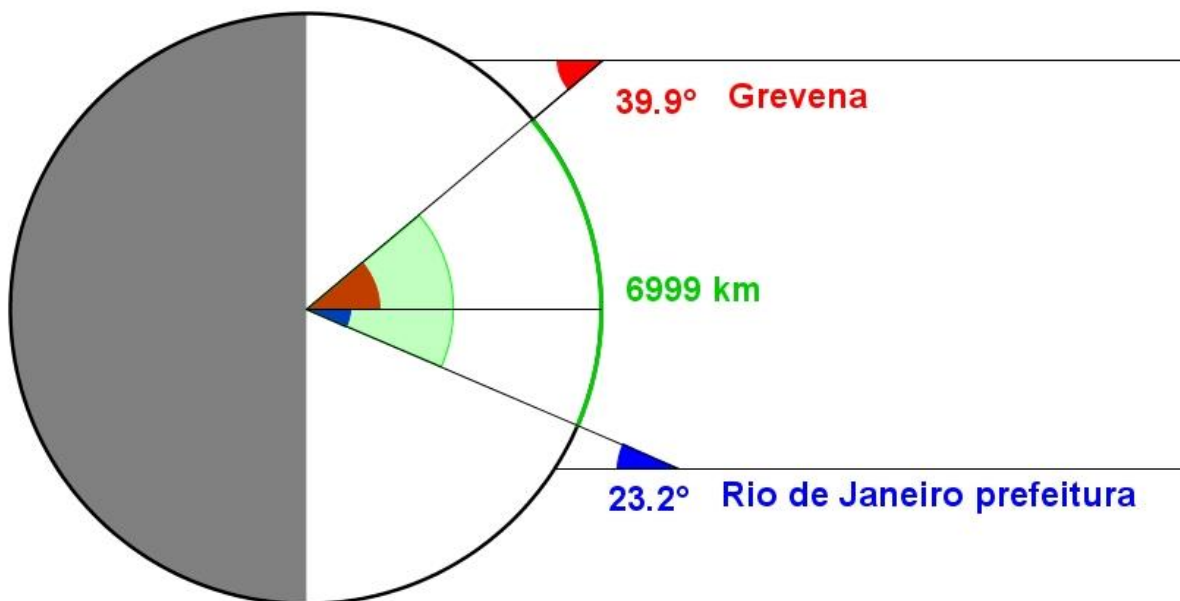


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Grevena	Greece	2nd primary of Grevena	40.086	21.424

Date	Gnomon	Shadow	Angle
21 March	100 cm	83.5 cm	39.9°

21 March 2016 (Grevena-GREECE) Latitude: 40.086

21 March 2016 (Rio de Janeiro prefeitura-BRASIL) Latitude: -22.911




$$\text{circumference} = \frac{360^\circ \times 6999 \text{ km}}{39.9^\circ + 23.2^\circ} = 39931 \text{ km}$$



Ioannina, Greece

March 2016

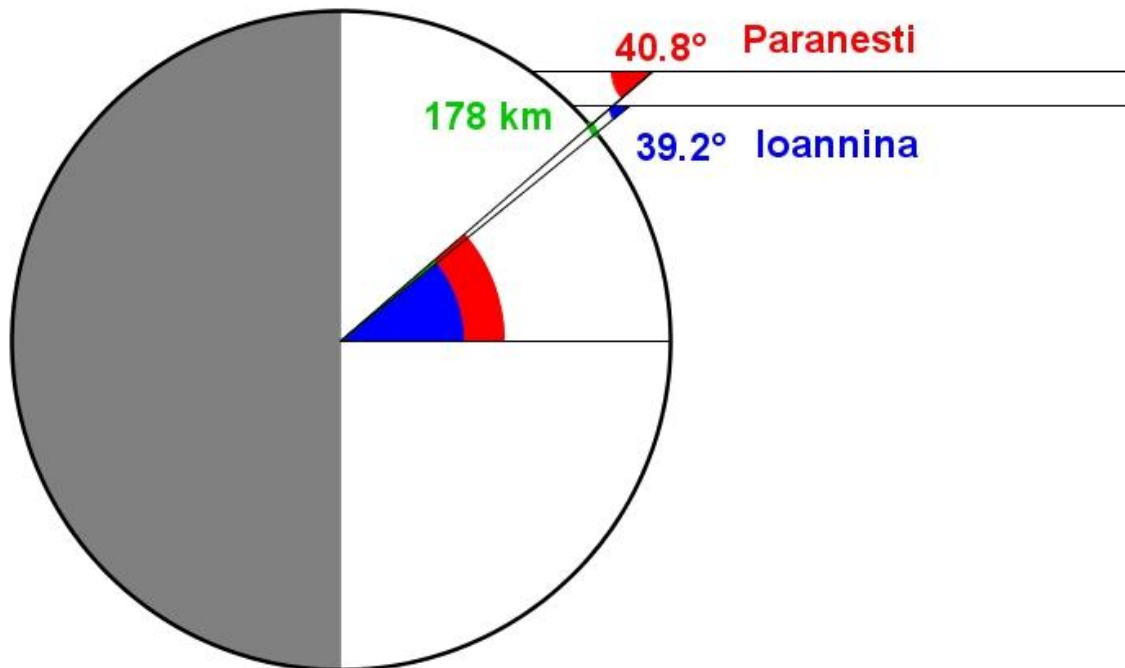


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Ioannina	Greece	Experimental College	39.666	20.845

Date	Gnomon	Shadow	Angle
09 March	100 cm	96.2 cm	43.9°
16 March	100 cm	87.5 cm	41.2°
09 March	100 cm	81.5 cm	39.2°

21 March 2016 (Paranesti-GREECE) Latitude: 41.266°

21 March 2016 (Ioannina-GREECE) Latitude: 39.667°



$$\text{circumference} = \frac{360^\circ \times 178 \text{ km}}{40.8^\circ - 39.2^\circ} = 40050 \text{ km}$$



Komotini, Greece

March 2016

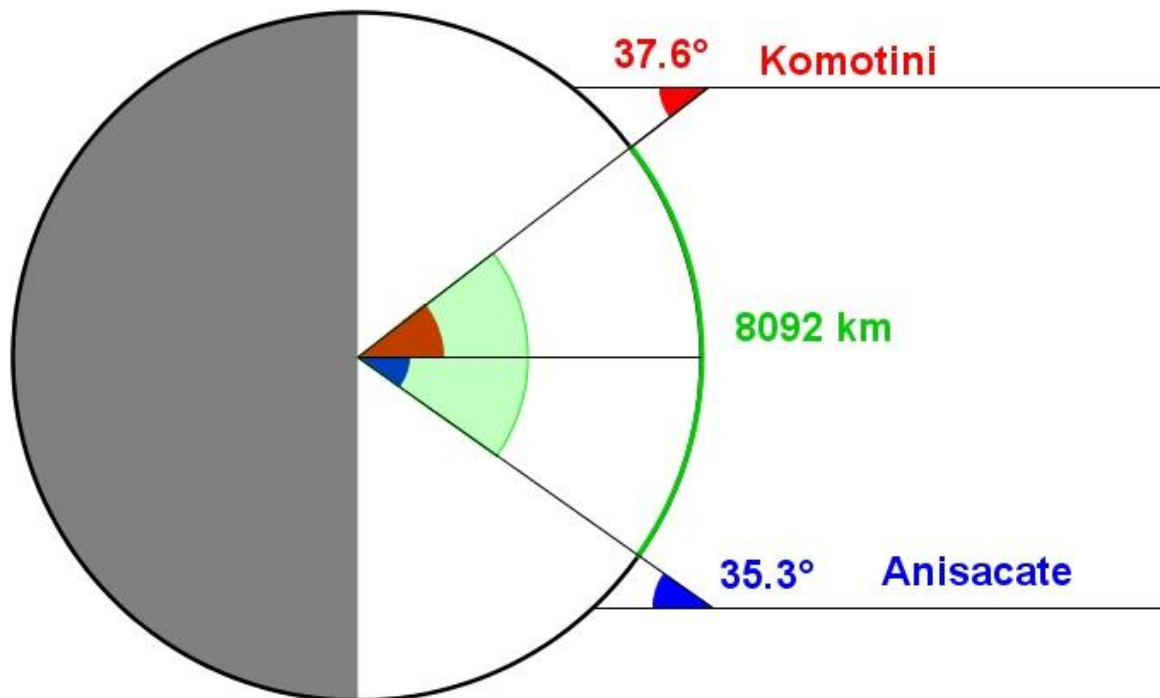


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Komotini	Greece	3rd Junior High School Komotini	41.121	25.394

Date	Gnomon	Shadow	Angle
03 March	100 cm	108.5 cm	47.3°
04 March	100 cm	107.1 cm	47.0°
11 March	100 cm	97.5 cm	44.3°
15 March	100 cm	93.1 cm	43.0°
17 March	100 cm	90.1 cm	42.0°
18 March	100 cm	88.1 cm	41.4°
21 March	100 cm	84.8 cm	40.3°
28 March	100 cm	76.9 cm	37.6°
31 March	100 cm	74.8 cm	36.8°

28 March 2016 (Komotini-GREECE) Latitude: 41.121

28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 8092 \text{ km}}{37.6^\circ + 35.3^\circ} = 39960 \text{ km}$$



Paranesti, Greece

March 2016

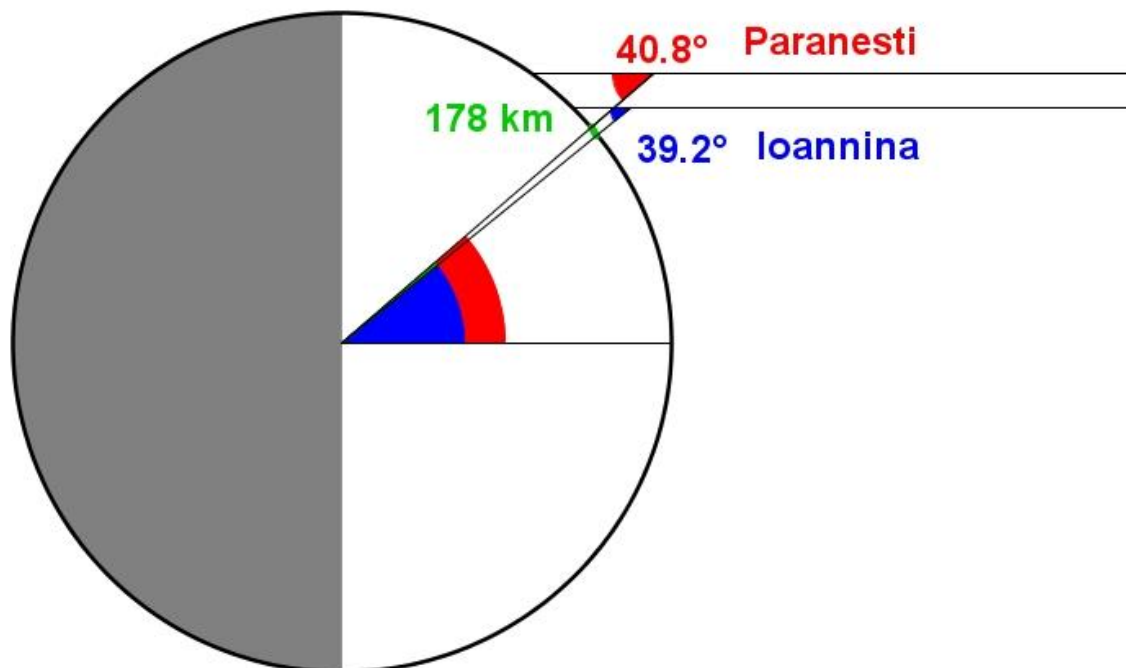


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Paranesti	Greece	Secondary School of Paranesti	41.267	24.499

Date	Gnomon	Shadow	Angle
21 March	96 cm	83 cm	40.8°

21 March 2016 (Paranesti-GREECE) Latitude: 41.266°

21 March 2016 (Ioannina-GREECE) Latitude: 39.667°




$$\text{circumference} = \frac{360^\circ \times 178 \text{ km}}{40.8^\circ - 39.2^\circ} = 40050 \text{ km}$$



Pastida, Greece

March 2016

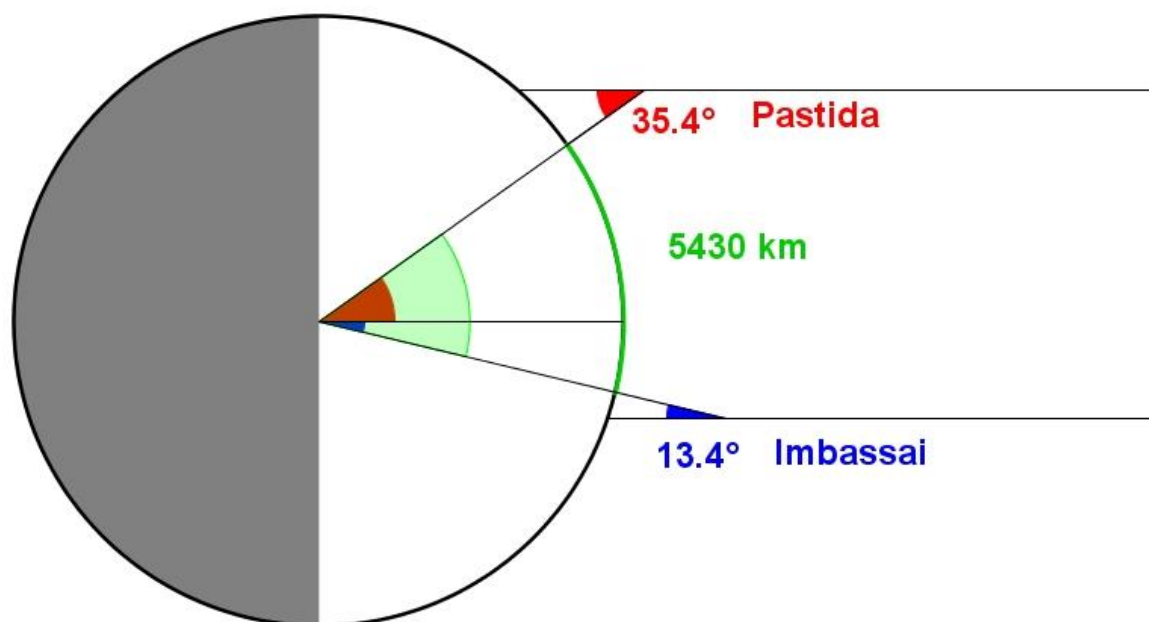


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Pastida	Greece	Primary School of Pastida	36.385	28.138

Date	Gnomon	Shadow	Angle
09 March	34.8 cm	30 cm	40.8°
15 March	28.0 cm	30 cm	38.8°
16 March	27.5 cm	30 cm	38.3°
21 March	24.7 cm	30 cm	35.4°

21 March 2016 (Pastida-GREECE) Latitude: 36.385

21 March 2016 (Imbassai-BRASIL) Latitude: -12.491




$$\text{circumference} = \frac{360^\circ \times 5430 \text{ km}}{35.4^\circ + 13.4^\circ} = 40057 \text{ km}$$



Petroupoli, Greece

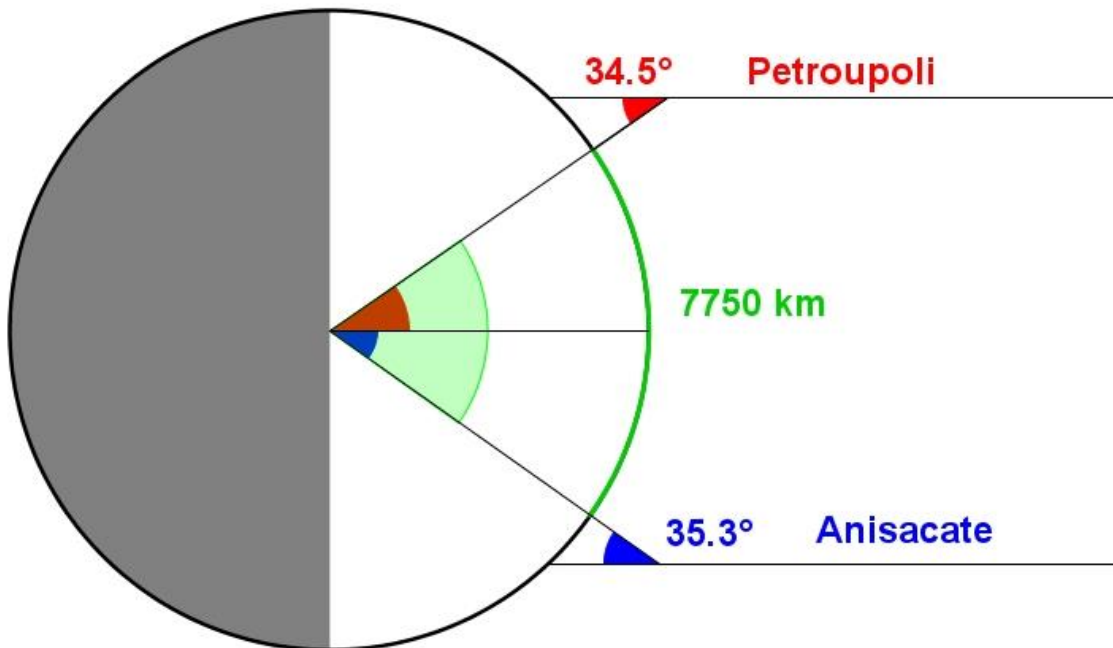
March 2016



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

Date	Gnomon	Shadow	Angle
02 March	52.3 cm	52.3 cm	45.0°
07 March	52.3 cm	48.8 cm	43.0°
09 March	30.4 cm	27.2 cm	41.8°
10 March	52.3 cm	46.5 cm	41.6°
11 March	52.3 cm	46.3 cm	41.5°
21 March	52.3 cm	40.2 cm	37.5°
28 March	52.3 cm	36.0 cm	34.5°
29 March	52.3 cm	35.6 cm	34.2°
30 March	52.3 cm	35.3 cm	34.0°

28 March 2016 (Petroupoli-GREECE) Latitude: 38.036
 28 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 7750 \text{ km}}{34.5^\circ + 35.3^\circ} = 39971 \text{ km}$$



Piraeus, Greece

March 2016

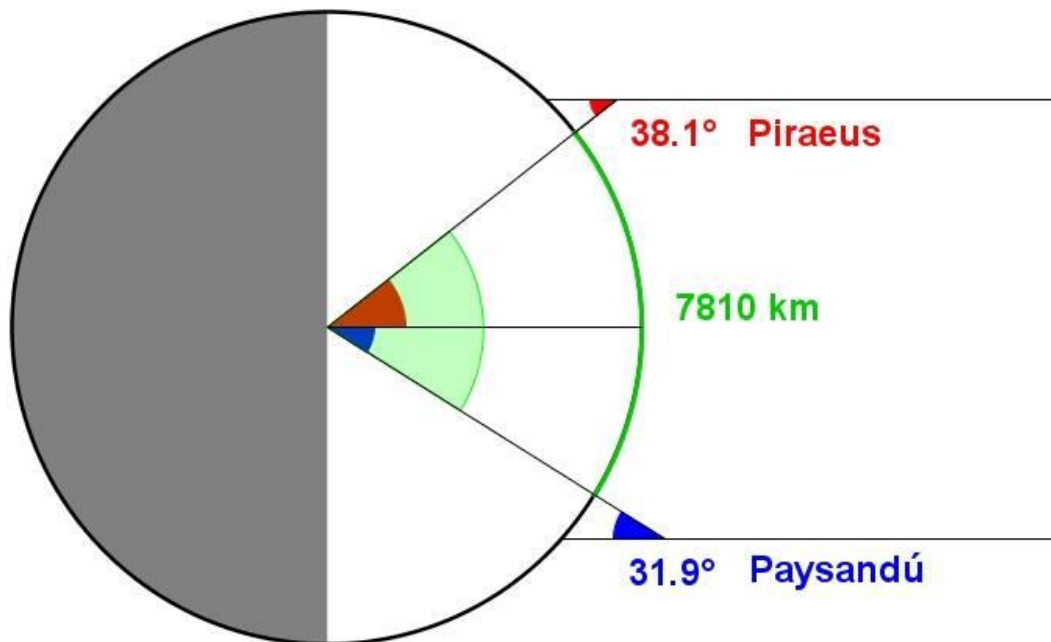


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piraeus	Greece	2nd Junior High School of Korydallos	37.977	23.655

Date	Gnomon	Shadow	Angle
01 March	100 cm	102 cm	45.6°
21 March	100 cm	78.5 cm	38.1°

21 March 2016 (Piraeus-GREECE) Latitude: 37.977

21 March 2016 (Paysandú-URUGUAY) Latitude: -32.316




$$\text{circumference} = \frac{360^\circ \times 7810 \text{ km}}{38.1^\circ + 31.9^\circ} = 40166 \text{ km}$$



Pylos, Greece

March 2016

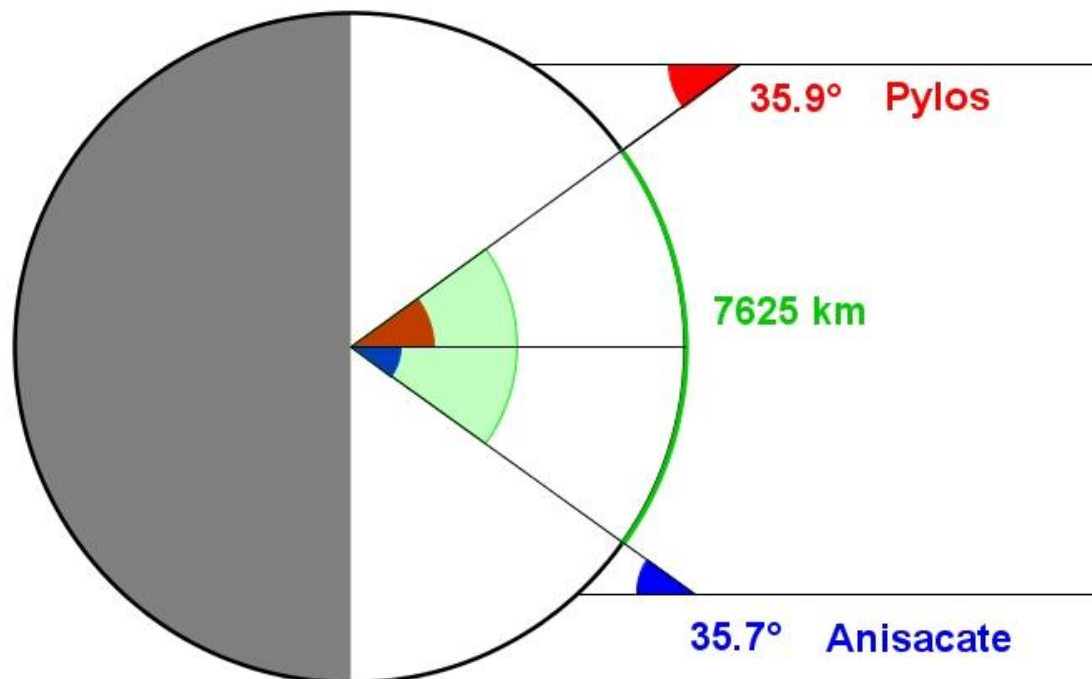


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Pylos	Greece	1st Kindergarten of Pylos	36.911	21.694

Date	Gnomon	Shadow	Angle
29 March	23.5 cm	1.7 cm	35.9°

29 March 2016 (Pylos-GREECE) Latitude: 36.911

29 March 2016 (Anisacate-ARGENTINA) Latitude: -31.717




$$\text{circumference} = \frac{360^\circ \times 7625 \text{ km}}{35.9^\circ + 35.7^\circ} = 38338 \text{ km}$$



Donji Muć, Croatia

March 2016

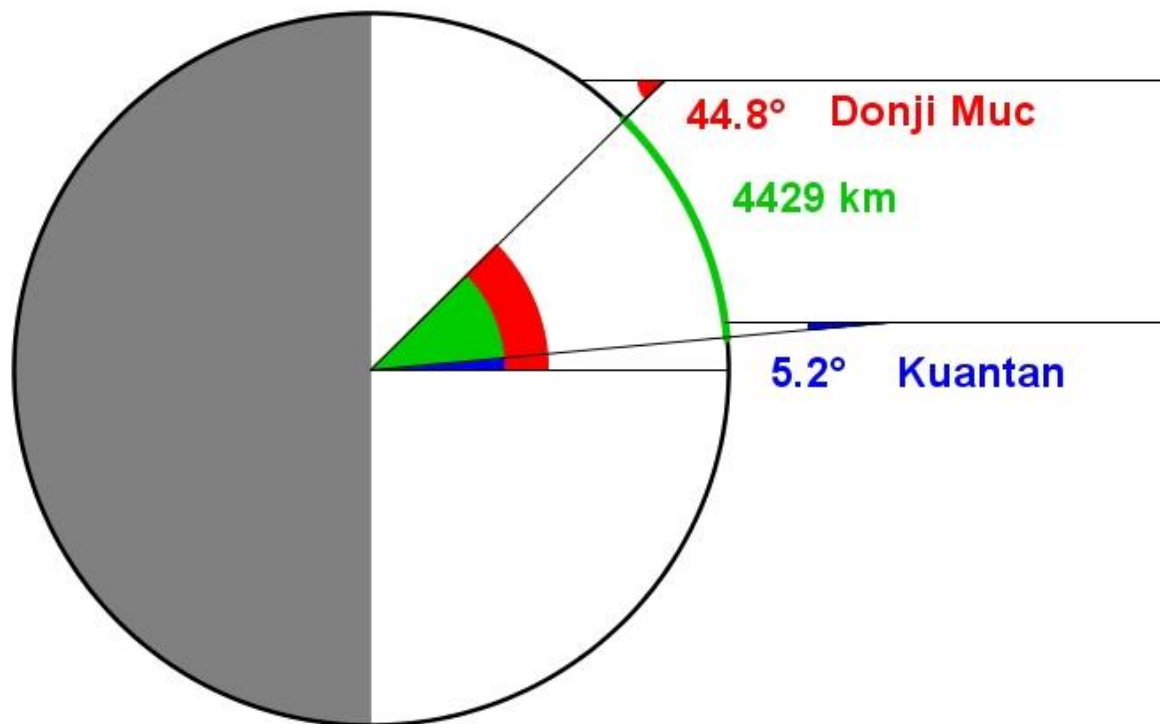


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Donji Muć	Croatia	oš kneza Branimira	43.694	16.462

Date	Gnomon	Shadow	Angle
02 March	100 cm	129.3 cm	52.3°
09 March	100 cm	117.0 cm	49.5°
17 March	100 cm	99.3 cm	44.8°
18 March	100 cm	98.4 cm	44.5°
30 March	100 cm	92.5 cm	42.8°
31 March	100 cm	91.5 cm	42.5°

17 March 2016 (Donji Muc-CROATIA) Latitude: 43.694°

17 March 2016 (Kuantan-MALAYSIA) Latitude: 3.827°




$$\text{circumference} = \frac{360^\circ \times 4429 \text{ km}}{44.8^\circ - 5.2^\circ} = 40264 \text{ km}$$



Brštanovo, Croatia

March 2016

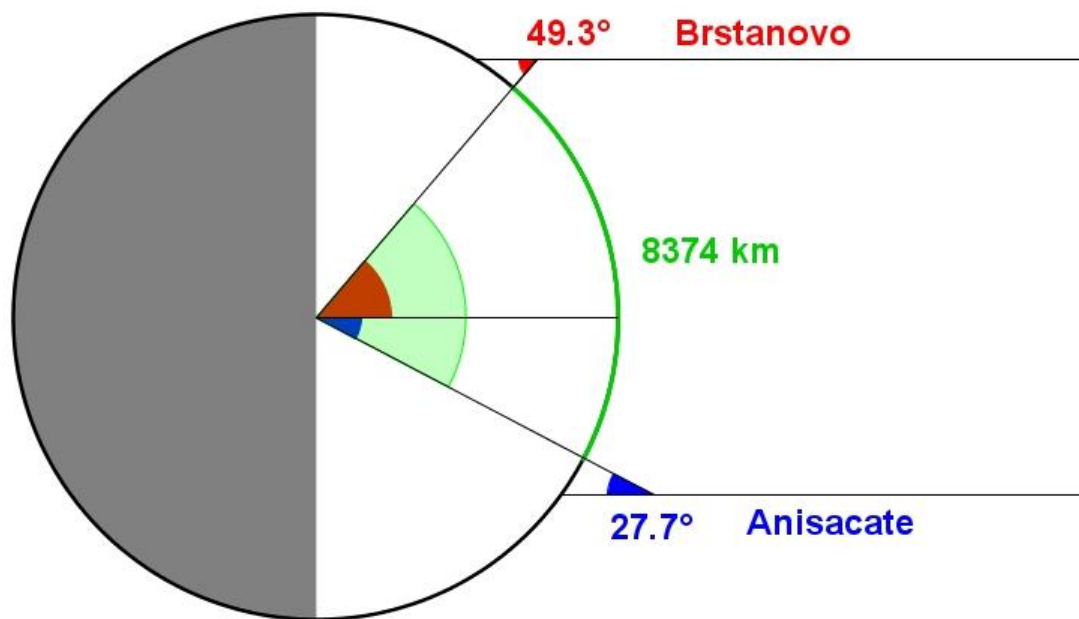


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Brštanovo	Croatia	Osnovna škola kneza Branimira	43.658	16.415

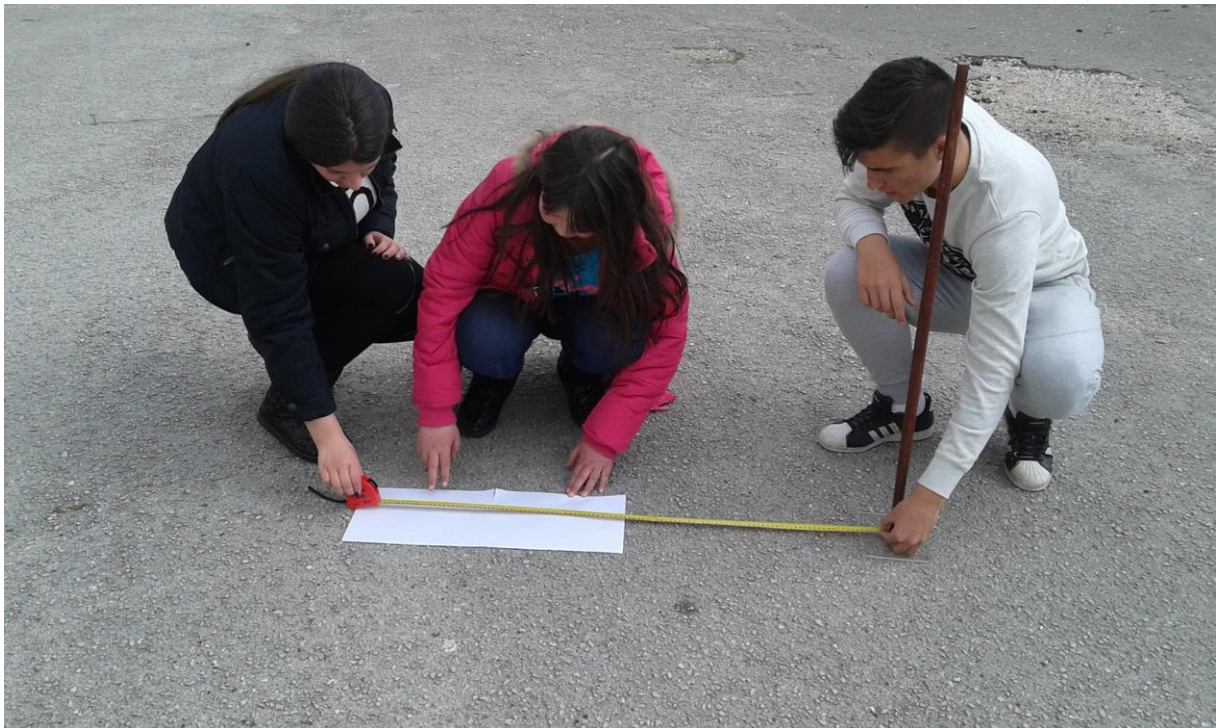
Date	Gnomon	Shadow	Angle
09 March	100 cm	116.3 cm	49.3°
15 March	100 cm	108.0 cm	47.2°

09 march 2016 (Brstanovo-CROATIA) Latitude: 43.658

09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717



$$\text{circumference} = \frac{360^\circ \times 8374 \text{ km}}{49.3^\circ + 27.7^\circ} = 39151 \text{ km}$$



Durđevac, Croatia

March 2016

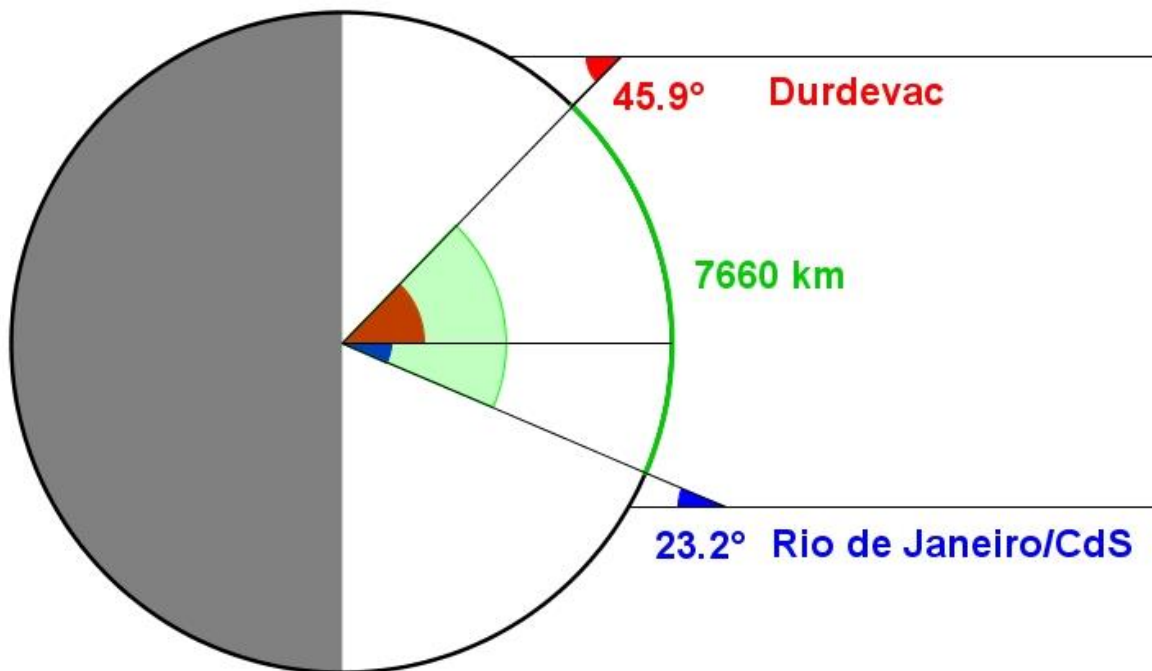


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Durđevac	Croatia	High school Gimnazija Dr. Ivana Kranjčeva	46.039	25.535

Date	Gnomon	Shadow	Angle
17 March	100 cm	107.7 cm	47.1°
18 March	100 cm	103.3 cm	45.9°

18 March 2016 (Durdevac-CROATIA 46.038)

18 March 2016 (Rio de Janeiro/CdS-BRASIL -22.907)



$$\text{circumference} = \frac{360^\circ \times 7660 \text{ km}}{45.9^\circ + 23.2^\circ} = 39907 \text{ km}$$



Dugo Selo, Croatia

March 2016



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Dugo Selo	Croatia	Elementary School Josipa Zorica	45.804	16.243

Date	Gnomon	Shadow	Angle
18 March	716 cm	710 cm	44.8°

18 March 2016 (Dugo Selo-CROATIA) Latitude: 45.823

18 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.907




$$\text{circumference} = \frac{360^\circ \times 7636 \text{ km}}{44.8^\circ + 23.2^\circ} = 40426 \text{ km}$$



Neoric, Croatia

March 2016

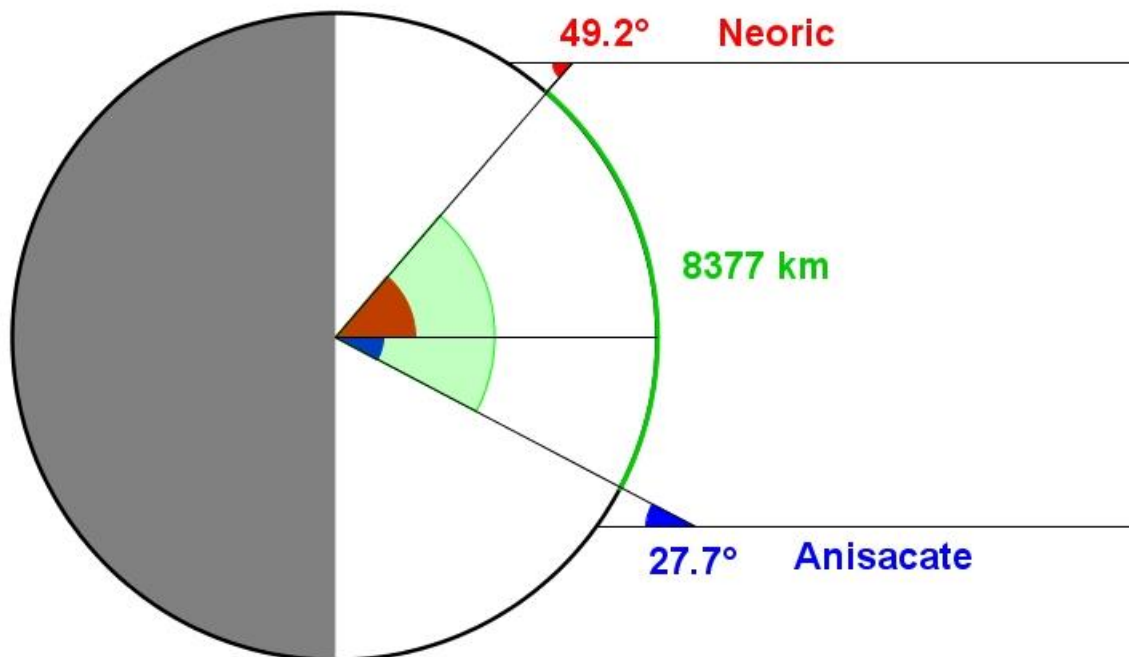


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Neoric	Croatia	OŠ Neorić - Sutina	43.686	16.520

Date	Gnomon	Shadow	Angle
02 March	100 cm	128 cm	52.0°
09 March	100 cm	116 cm	49.2°

09 march 2016 (Neoric-CROATIA) Latitude: 43.686

09 march 2016 (Anisacate-ARGENTINA) Latitude: -31.717




$$\text{circumference} = \frac{360^\circ \times 8377 \text{ km}}{49.2^\circ + 27.7^\circ} = 39216 \text{ km}$$



Lafrançaise, France

March 2016

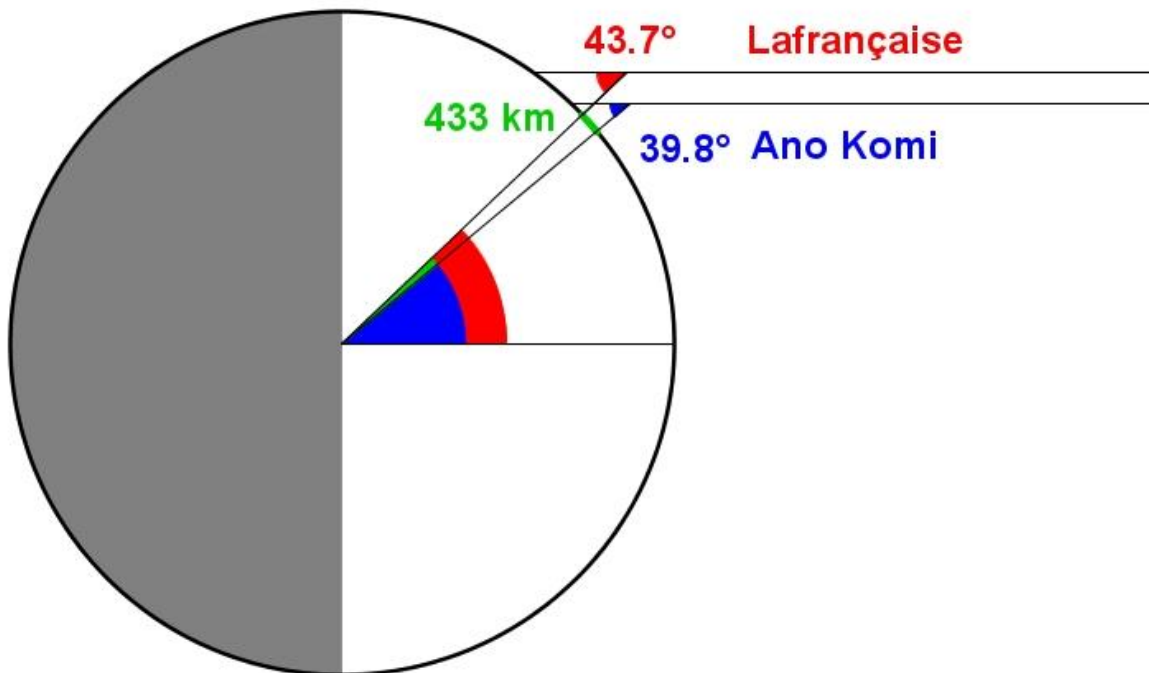


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Lafrançaise	France	Collège Antonin Perbosc	44.127	1.237

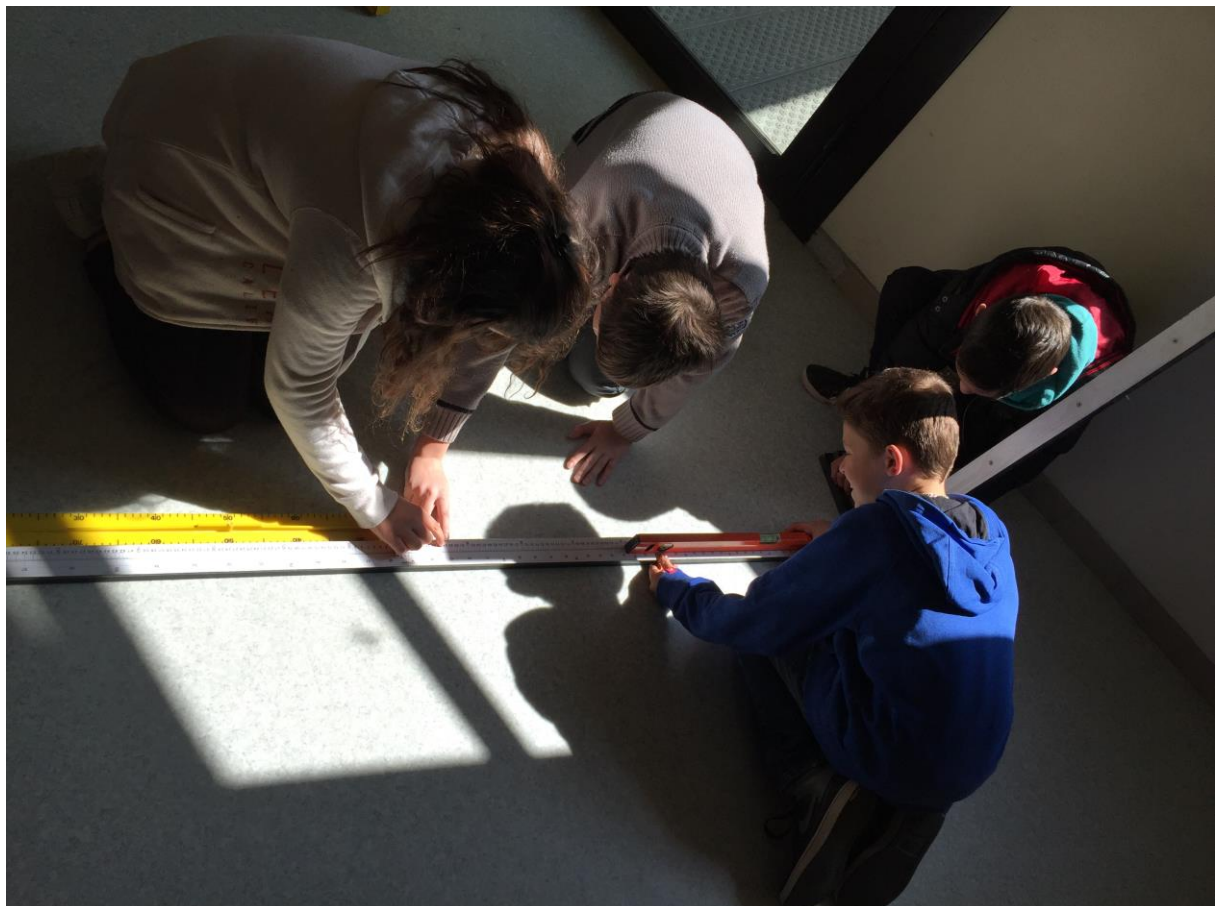
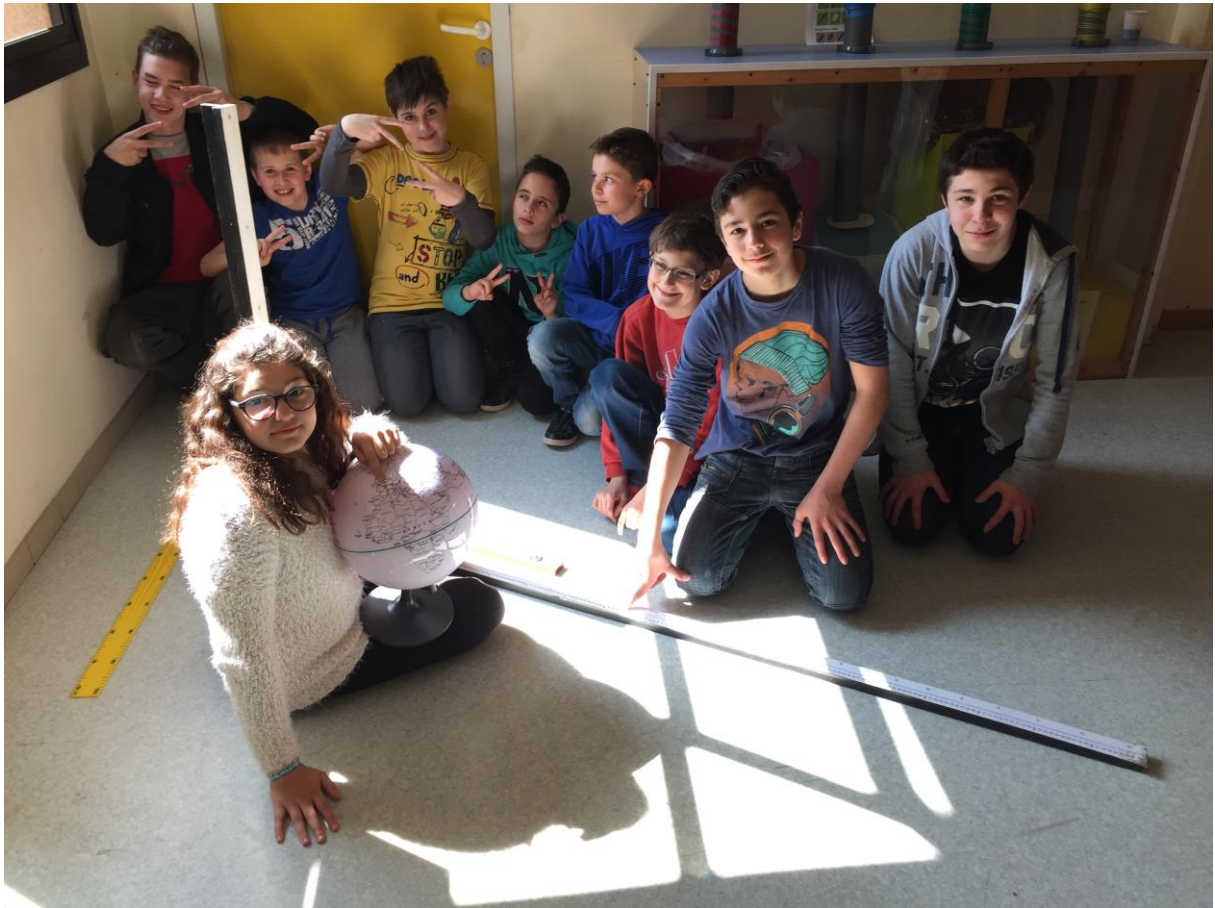
Date	Gnomon	Shadow	Angle
21 March	100 cm	99.5 cm	43.7°
22 March	100 cm	94.0 cm	43.2°
24 March	100 cm	91.4 cm	42.4°

21 March 2016 (Lafrançaise-FRANCE) Latitude: 44.127°

21 March 2016 (Ano Komi-GREECE) Latitude: 40.226°



$$\text{circumference} = \frac{360^\circ \times 433 \text{ km}}{43.7^\circ - 39.8^\circ} = 39969 \text{ km}$$



Marina di Carrara, Italy

March 2016



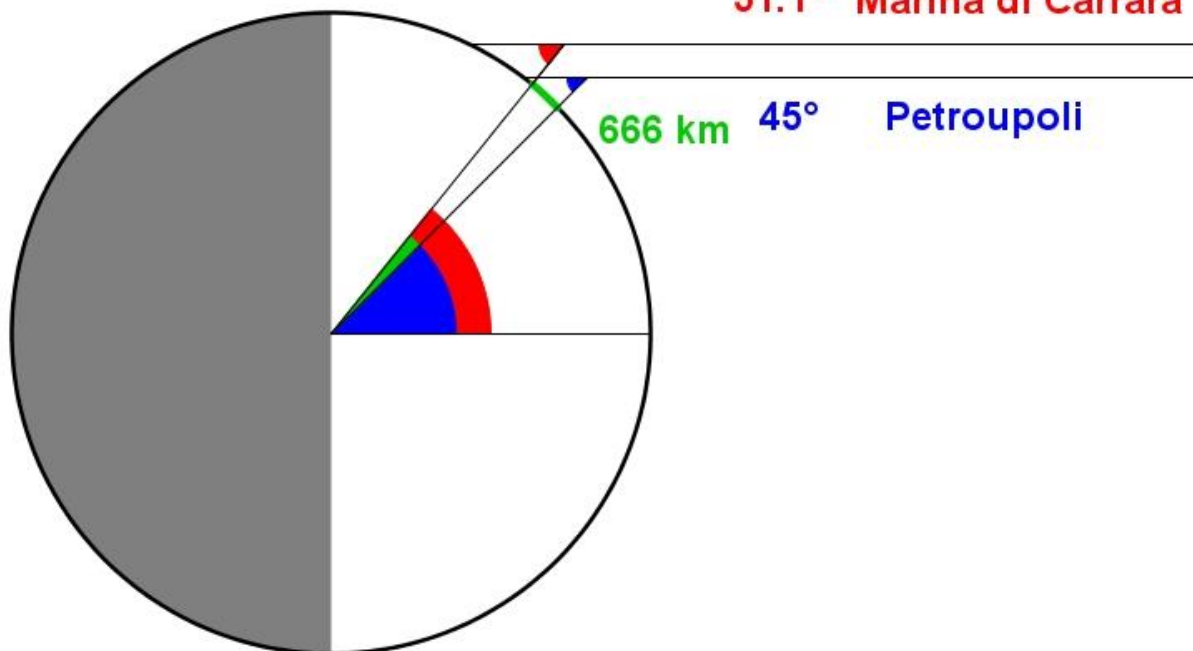
Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Marina di Carrara	Italy	M Buonarroti primary school	44.045	10.031

Date	Gnomon	Shadow	Angle
02 March	100 cm	124 cm	51.1°

02 March 2016 (Marina di Carrara-ITALY) Latitude: 44.033°

02 March 2016 (Petroupoli-GREECE) Latitude: 38.036°

51.1° Marina di Carrara



$$\text{circumference} = \frac{360^\circ \times 666 \text{ km}}{51.1^\circ - 45^\circ} = 39305 \text{ km}$$



Merlara, Italy

March 2016

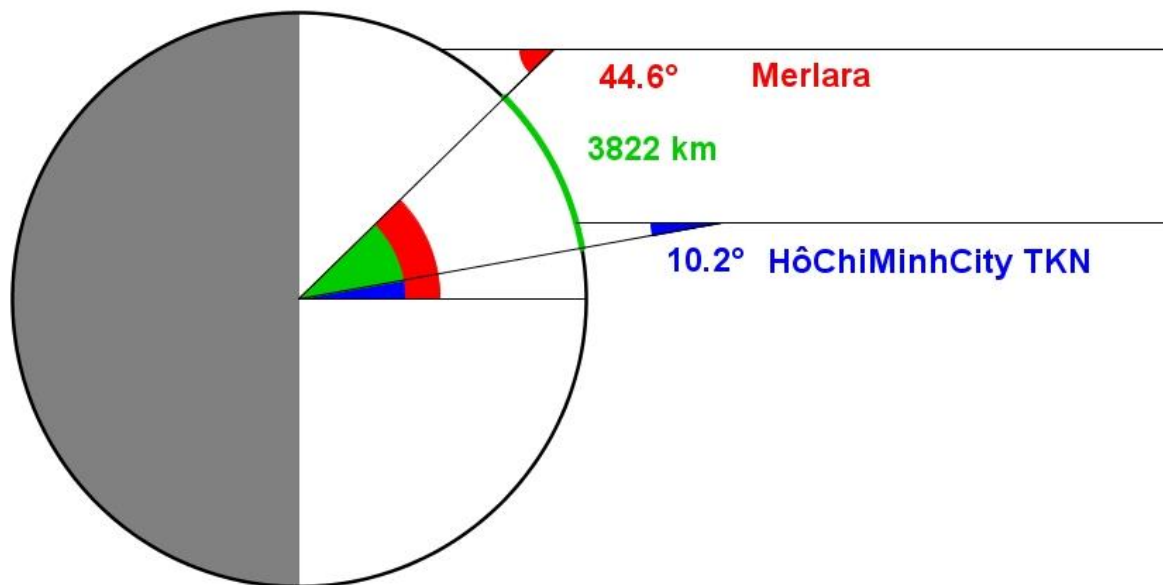


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Merlara	Italy	Lower Secondary School "Dante Alighieri"	45.163	11.446

Date	Gnomon	Shadow	Angle
21 March	100 cm	98.5 cm	44.6°

21 March 2016 (Merlara-ITALY) Latitude: 45.163°

21 March 2016 (HôChiMinhCity TKN -VIETNAM) Latitude: 10.758°



$$\text{circumference} = \frac{360^\circ \times 3822 \text{ km}}{44.6^\circ - 10.2^\circ} = 39998 \text{ km}$$



Bucharest, Romania

March 2016

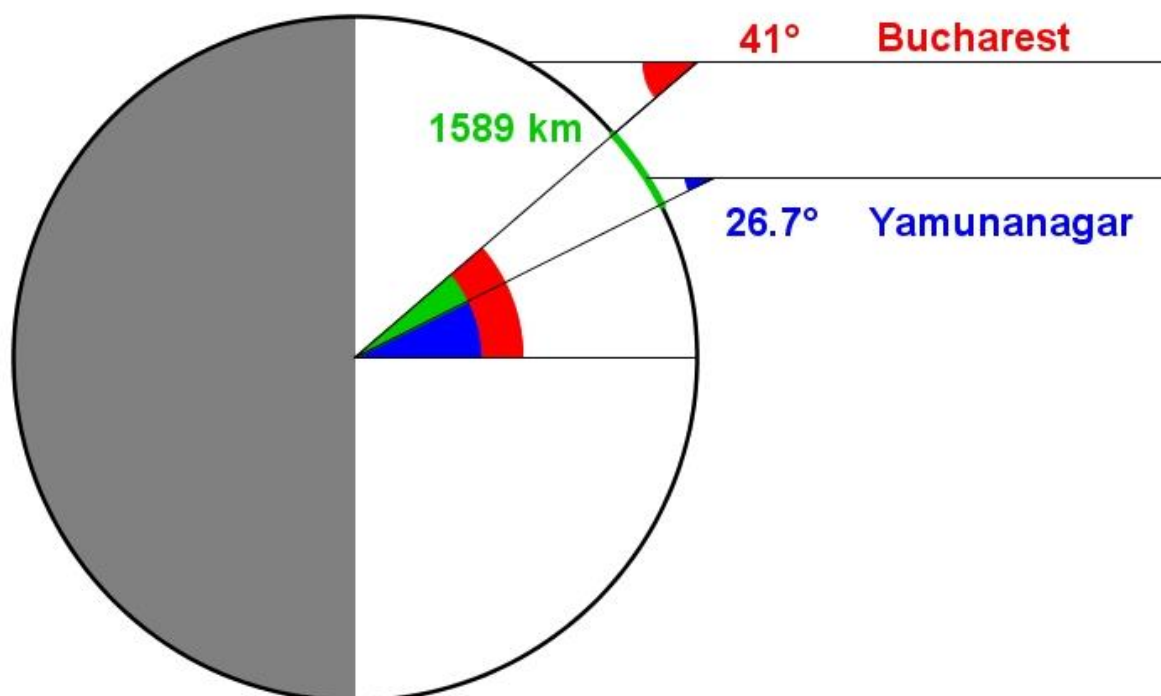


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Bucharest	Romania	Iulia Hasdeu National College	44.443	26.127

Date	Gnomon	Shadow	Angle
17 March	100 cm	102.0 cm	45.6°
18 March	100 cm	100.6 cm	45.2°
21 March	100 cm	96.4 cm	44.0°
22 March	100 cm	95.1 cm	43.6°
28 March	100 cm	87.0 cm	41.0°
30 March	100 cm	85.0 cm	40.4°
31 March	100 cm	84.0 cm	40.0°

28 March 2016 (Bucharest-ROMANIA) Latitude: 44.443°

28 March 2016 (Yamunanagar-INDIA) Latitude: 30.145°



$$\text{circumference} = \frac{360^\circ \times 1589 \text{ km}}{41^\circ - 26.7^\circ} = 40003 \text{ km}$$



Busteni, Romania

March 2016

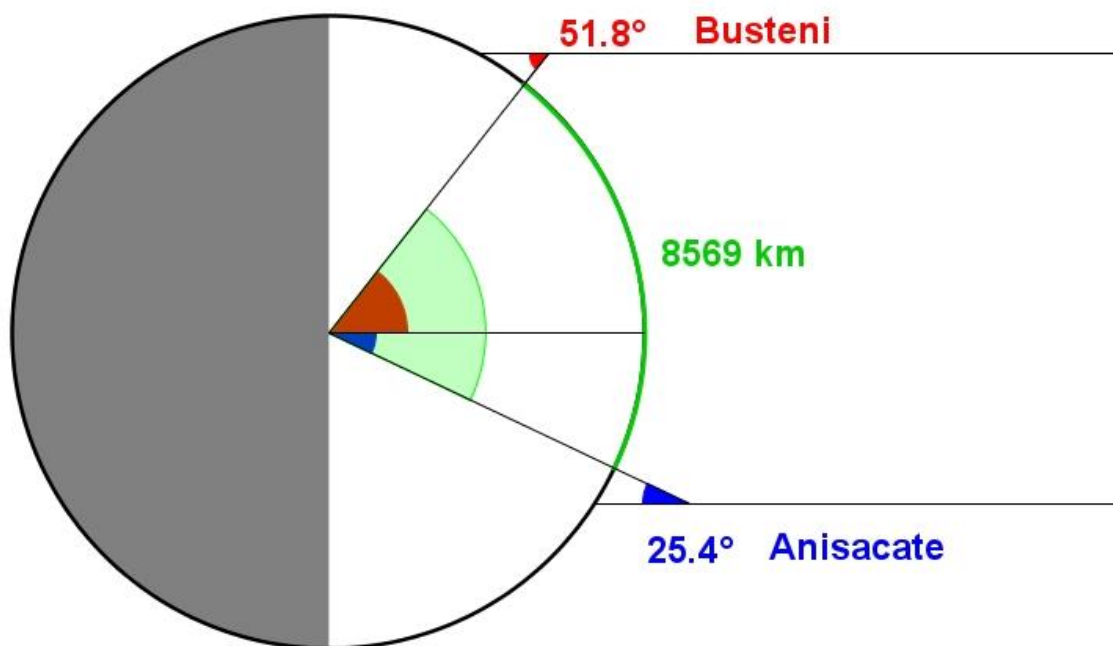


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Busteni	Romania	Colegiul Ion Kalinderu	45.416	25.535

Date	Gnomon	Shadow	Angle
01 March	100 cm	132.0 cm	52.9°
03 March	35 cm	44.5 cm	51.8°
08 March	35 cm	42.4 cm	50.5°
11 March	22 cm	25.0 cm	48.7°
14 March	35 cm	38.5 cm	47.7°
15 March	22 cm	23.8 cm	47.3°
17 March	100 cm	105.0 cm	46.4°
18 March	100 cm	104.0 cm	46.1°
20 March	22 cm	22.2 cm	45.3°
21 March	22 cm	21.9 cm	44.9°
23 March	22 cm	21.4 cm	44.2°
29 March	22 cm	19.6 cm	41.7°
30 March	35 cm	30.7 cm	41.3°
31 March	100 cm	86.6 cm	40.9°

03 march 2016 (Busteni-ROMANIA) Latitude 45.416

03 march 2016 (Anisacate-ARGENTINA) Latitude -31.717




$$\text{circumference} = \frac{360^\circ \times 8569 \text{ km}}{51.8^\circ + 25.4^\circ} = 39959 \text{ km}$$



Caracal, Romania

March 2016

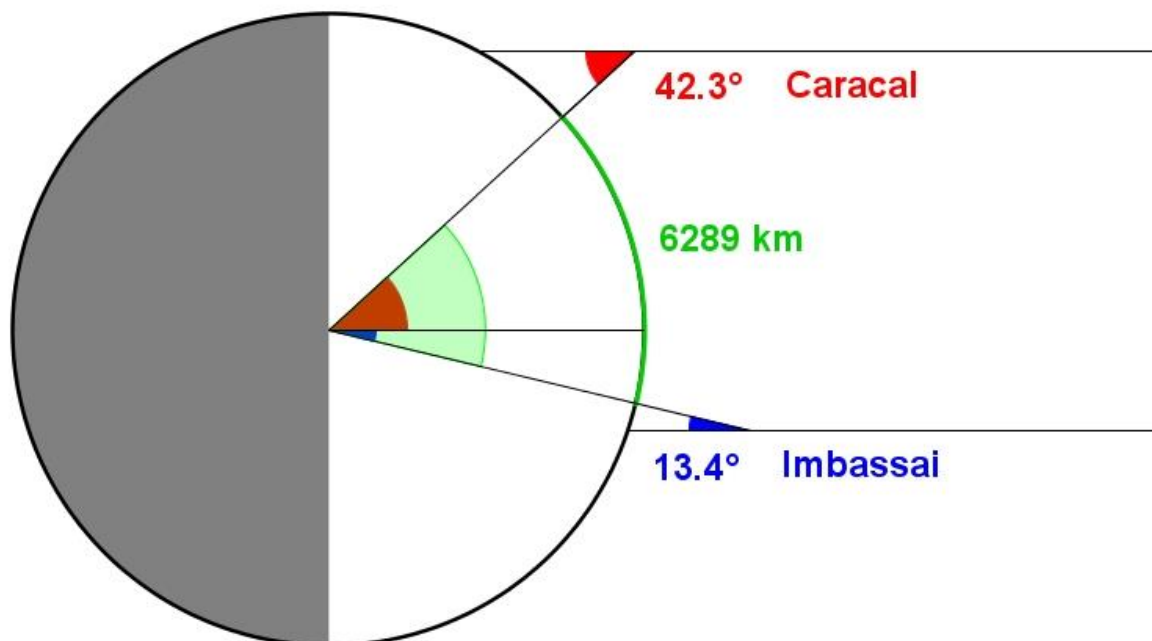


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Caracal	Romania	GH Magheru School	44.113	24.347

Date	Gnomon	Shadow	Angle
21 March	100 cm	91 cm	42.3°

21 March 2016 (Caracal-ROMANIA) Latitude: 44.113

21 March 2016 (Imbassai-BRASIL) Latitude: -12.491




$$\text{circumference} = \frac{360^\circ \times 6289 \text{ km}}{42.3^\circ + 13.4^\circ} = 40647 \text{ km}$$



Mărgineni, Romania

March 2016

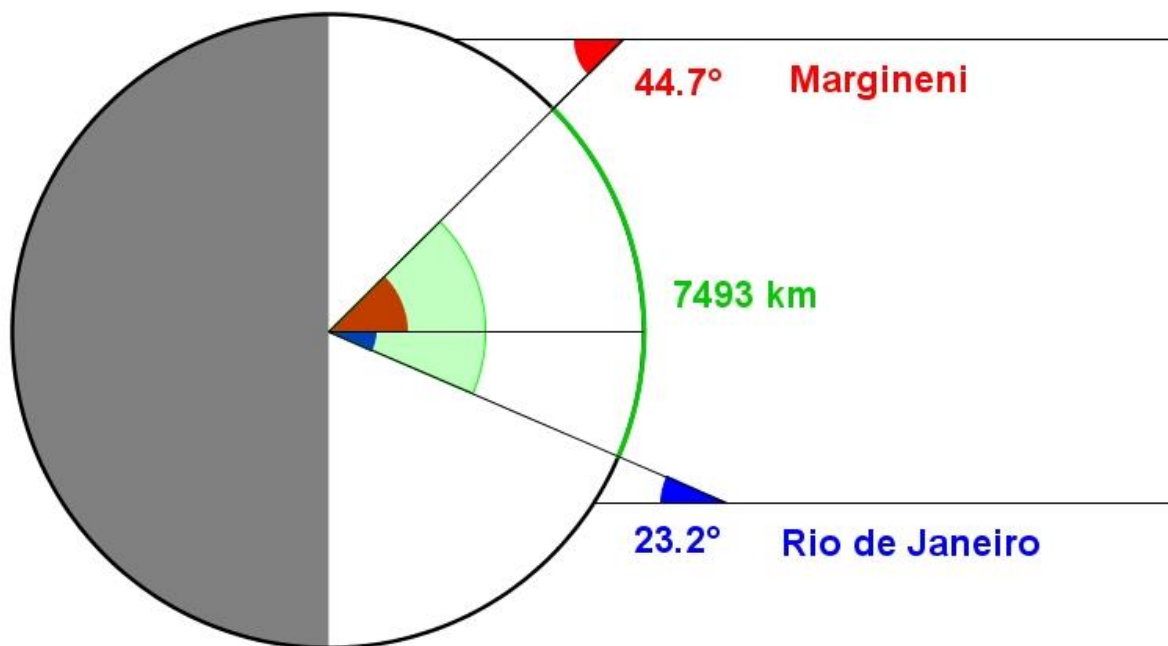


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mărgineni	Romania	Gh. Popescu School	44.533	24.554

Date	Gnomon	Shadow	Angle
21 March	110 cm	109 cm	44.7°

21 March 2016 (Margineni-ROMANIA) Latitude: 44.533

21 March 2016 (Rio de Janeiro-BRASIL) Latitude: -22.911



$$\text{circumference} = \frac{360^\circ \times 7493 \text{ km}}{44.7^\circ + 23.2^\circ} = 39727 \text{ km}$$



