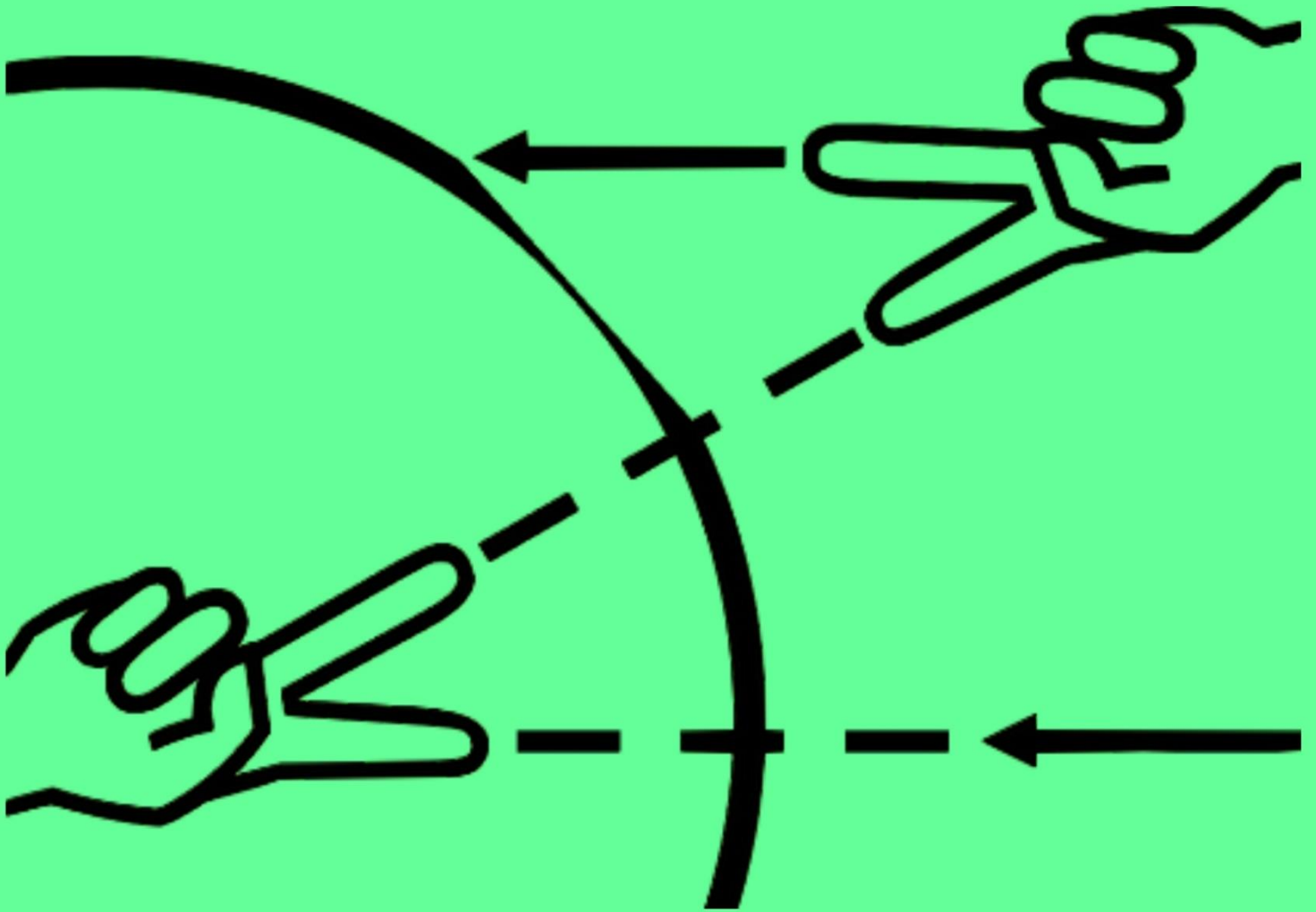


Eratoosthenes



July 2017

2 Continents

5 Countries

7 Schools

15 Measures

ARGENTINA (1)
Alta Gracia

BRAZIL (2)
Piranguinho, Rio de Janeiro

COLOMBIA (1)
Guarne

ECUADOR (1)
Quitsato

GREECE (2)
Athens, Methoni

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Alta Gracia	Argentina	Fundación Caminos de Anisacate	-31.659	-64.417
	Athens	Greece	Teacher Bill	38.130	23.849
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449
	Methoni	Greece	Teachers Athanasia & Daniela	36.817	21.707
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535
	Quitsato	Ecuador	La Mitad del Mundo Reloj Solar	0,000	-78.175
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317

Alta Gracia, Argentina

July 2017

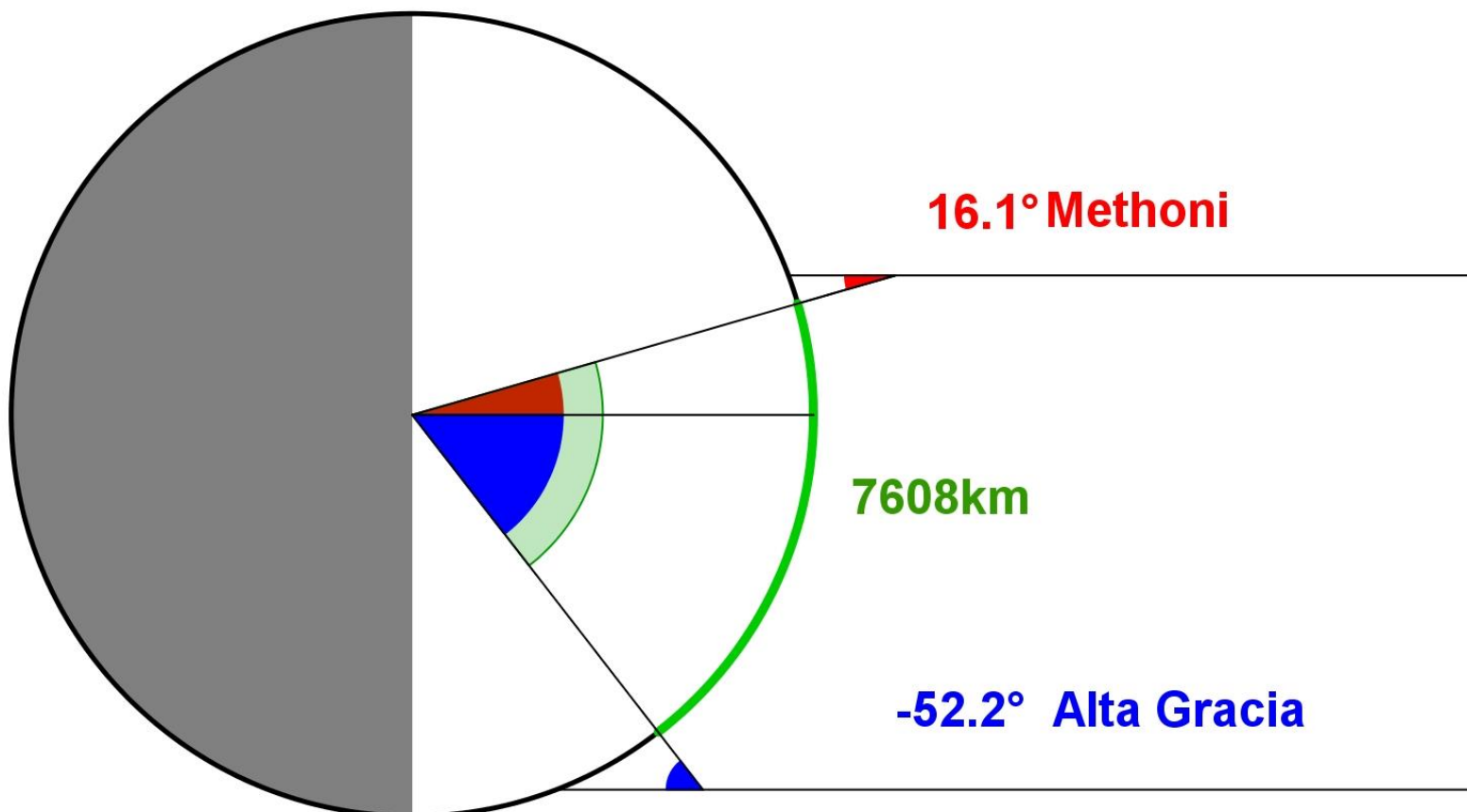


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Alta Gracia	Argentina	Fundación Caminos de Anisacate	-31.659	-64.417

Date	Gnomon	Shadow	Angle
19 July	39.5 cm	-51.5 cm	-52.5 °
21 July	39.5 cm	-51 cm	-52.2 °
27 July	39.5 cm	-48.7 cm	-51 °

22/07/2017 (Methoni-Greece) Latitude: 36.817°

21/07/2017 (Alta Gracia-Argentina) Latitude: -31.659°



$$\text{circumference} = \frac{360^\circ \times 7608\text{km}}{16.1^\circ + 52.2^\circ} = 40101 \text{ km}$$



Athens, Greece

July 2017

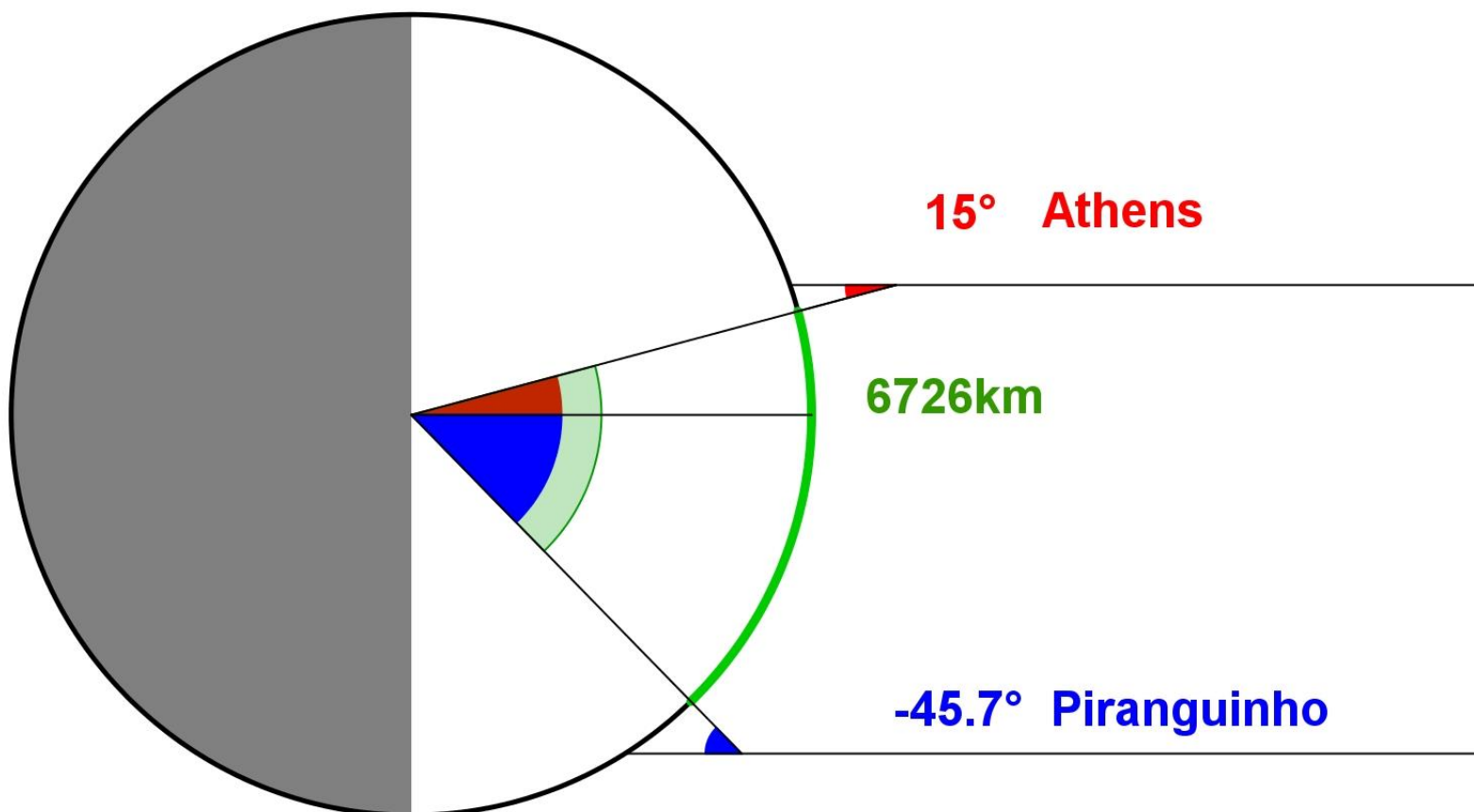


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Teacher Bill	38.130	23.849

Date	Gnomon	Shadow	Angle
03 July	15.3 cm	4.1 cm	15 °

03/07/2017 (Athens-Greece) Latitude: 38.13°

03/07/2017 (Piranguinho-Brazil) Latitude: -22.411°



$$\text{circumference} = \frac{360^\circ \times 6726\text{km}}{15^\circ + 45.7^\circ} = 39891 \text{ km}$$



Guarne, Colombia

July 2017

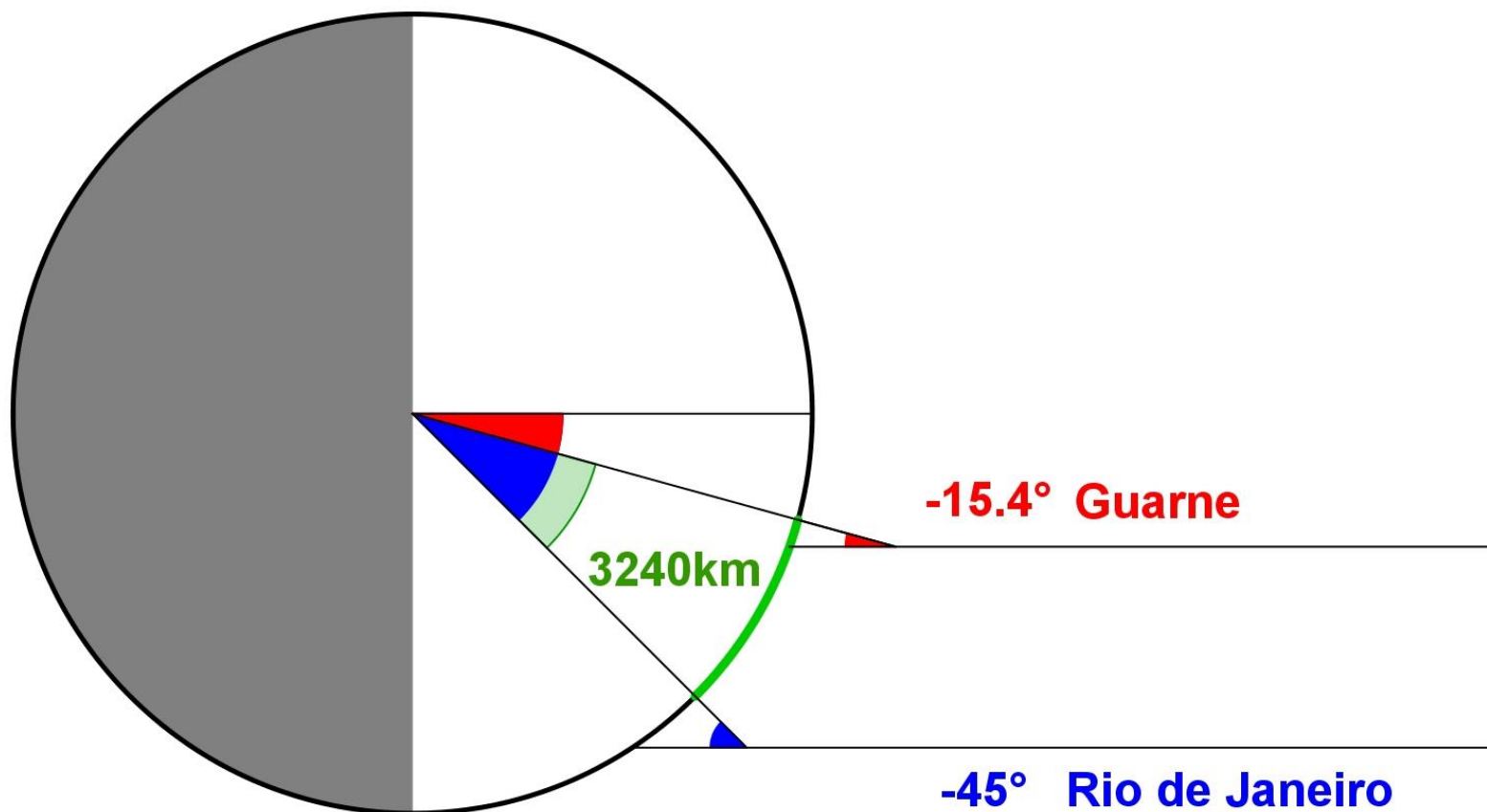


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Guarne	Colombia	Grupo Astrofanáticos	6.274	-75.449

Date	Gnomon	Shadow	Angle
05 July	64.8 cm	-17.9 cm	-15.4 °

05/07/2017 (Guarne-Colombia) Latitude: 6.274°

05/07/2017 (Rio de Janeiro-Brazil) Latitude: -22.89°



$$\text{circumference} = \frac{360^\circ \times 3240\text{km}}{45^\circ - 15.4^\circ} = 39405 \text{ km}$$



Methoni, Greece

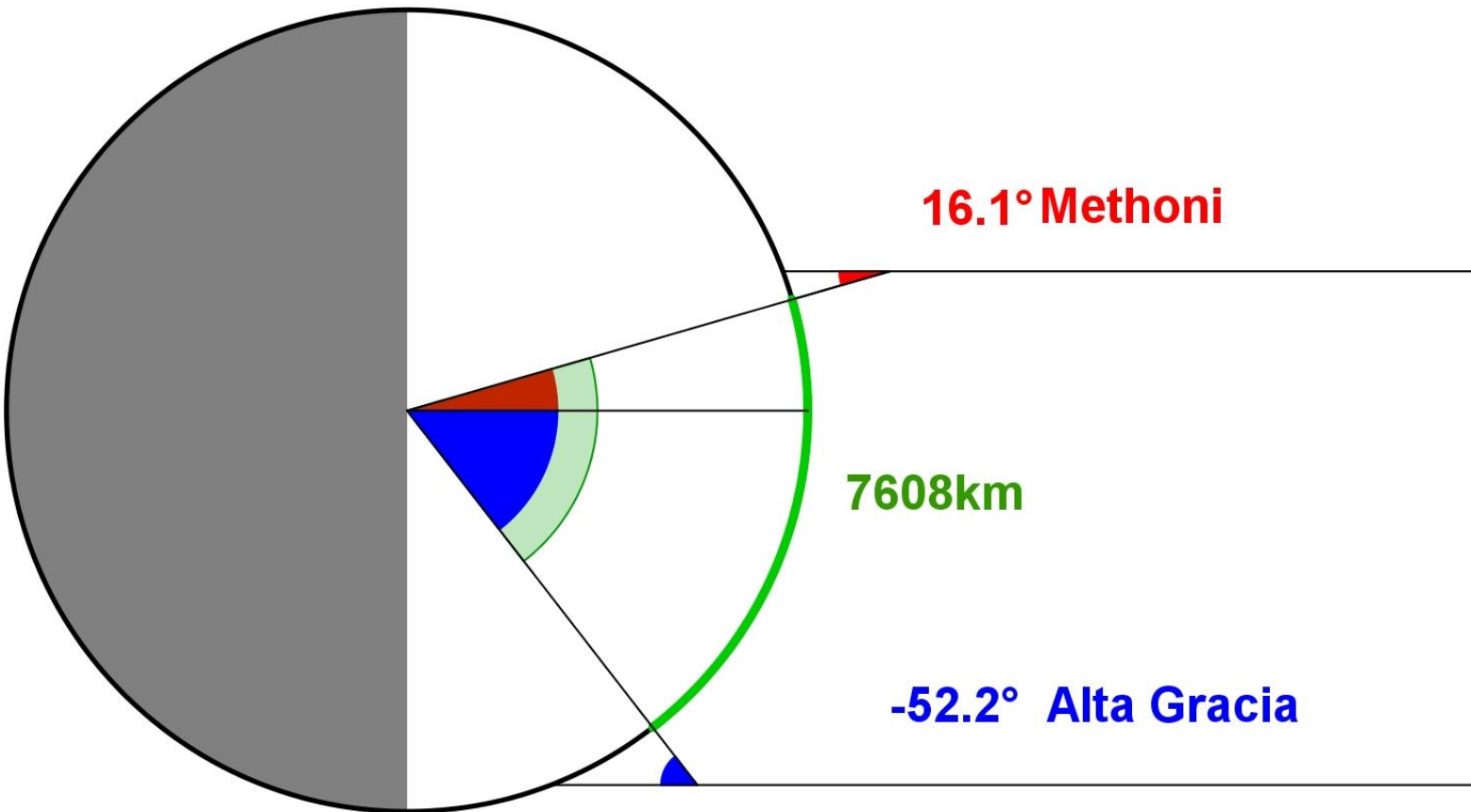
July 2017



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Methoni	Greece	Teachers Athanasia & Daniela	36.817	21.707

Date	Gnomon	Shadow	Angle
22 July	98.5 cm	28.5 cm	16.1 °

22/07/2017 (Methoni-Greece) Latitude: 36.817°
21/07/2017 (Alta Gracia-Argentina) Latitude: -31.659°

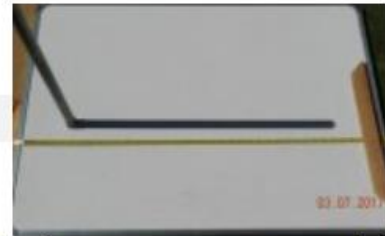


circumference = $\frac{360^\circ \times 7608\text{km}}{16.1^\circ + 52.2^\circ} = 40101 \text{ km}$



Piranguinho, Brazil

July 2017

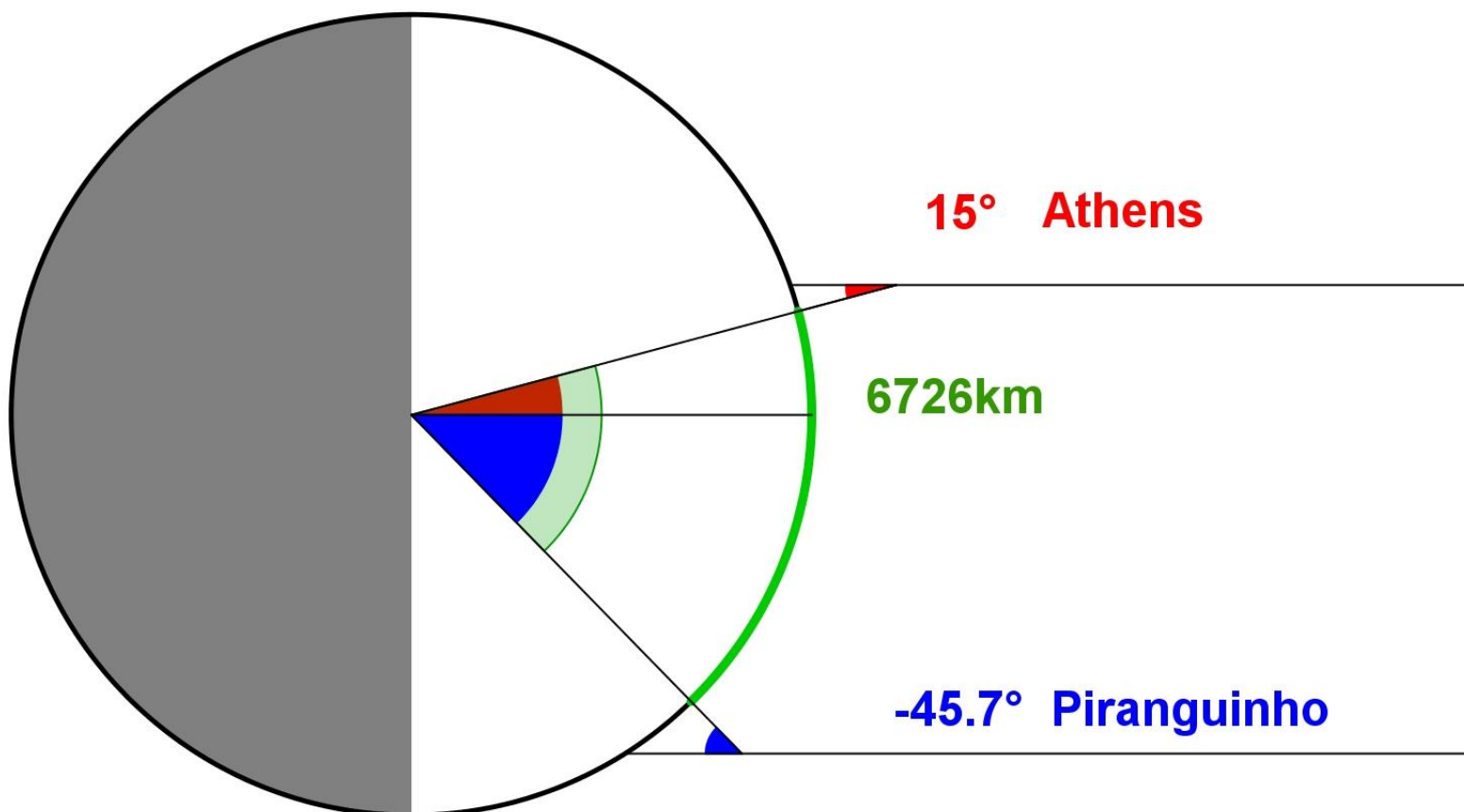


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Piranguinho	Brazil	Universidade Federal de Itajubá	-22.411	-45.535

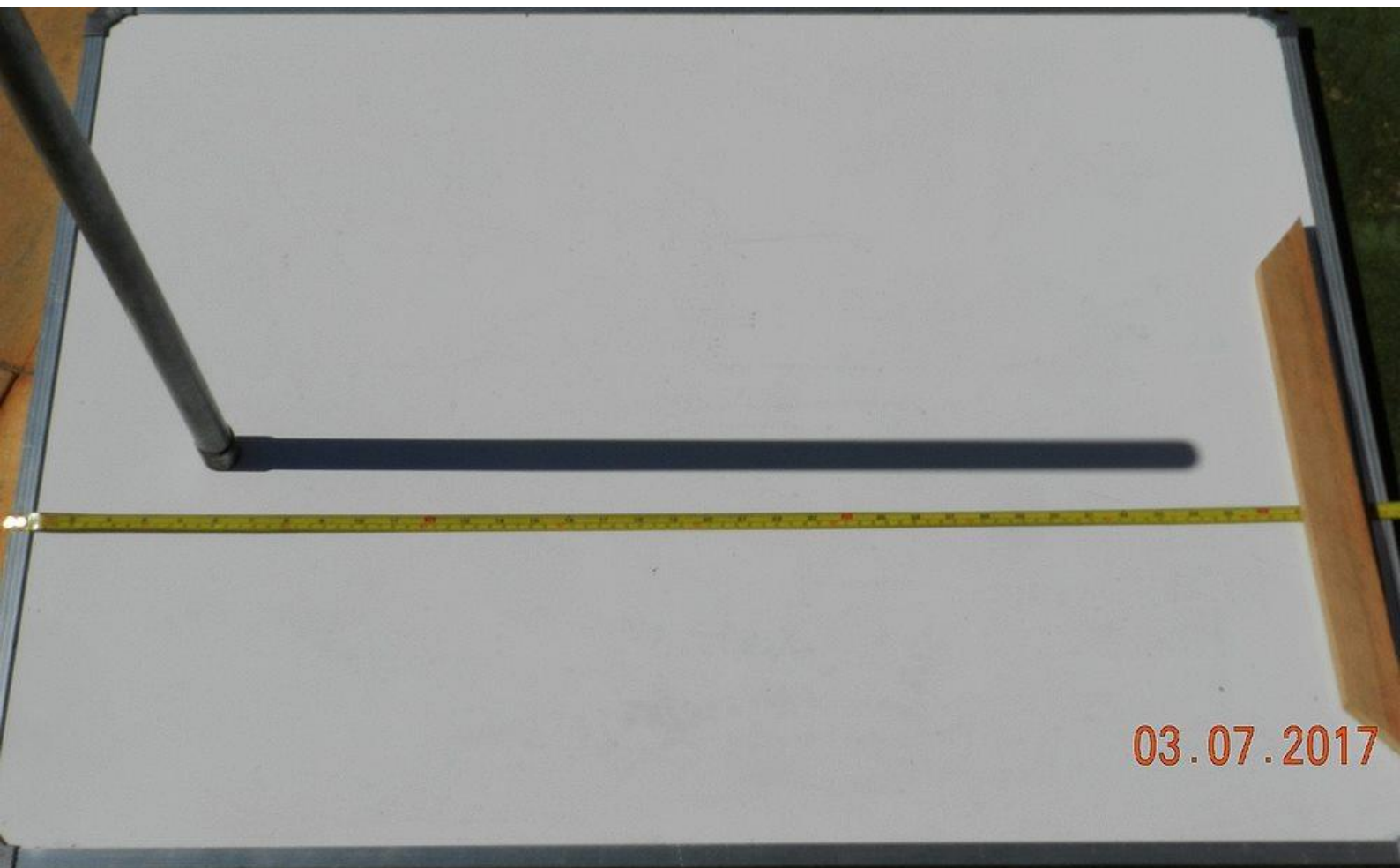
Date	Gnomon	Shadow	Angle
03 July	70 cm	-71.8 cm	-45.7 °
04 July	70 cm	-71.4 cm	-45.6 °

03/07/2017 (Athens-Greece) Latitude: 38.13°

03/07/2017 (Piranguinho-Brazil) Latitude: -22.411°



$$\text{circumference} = \frac{360^\circ \times 6726\text{km}}{15^\circ + 45.7^\circ} = 39891 \text{ km}$$



Quitsato, Ecuador

July 2017

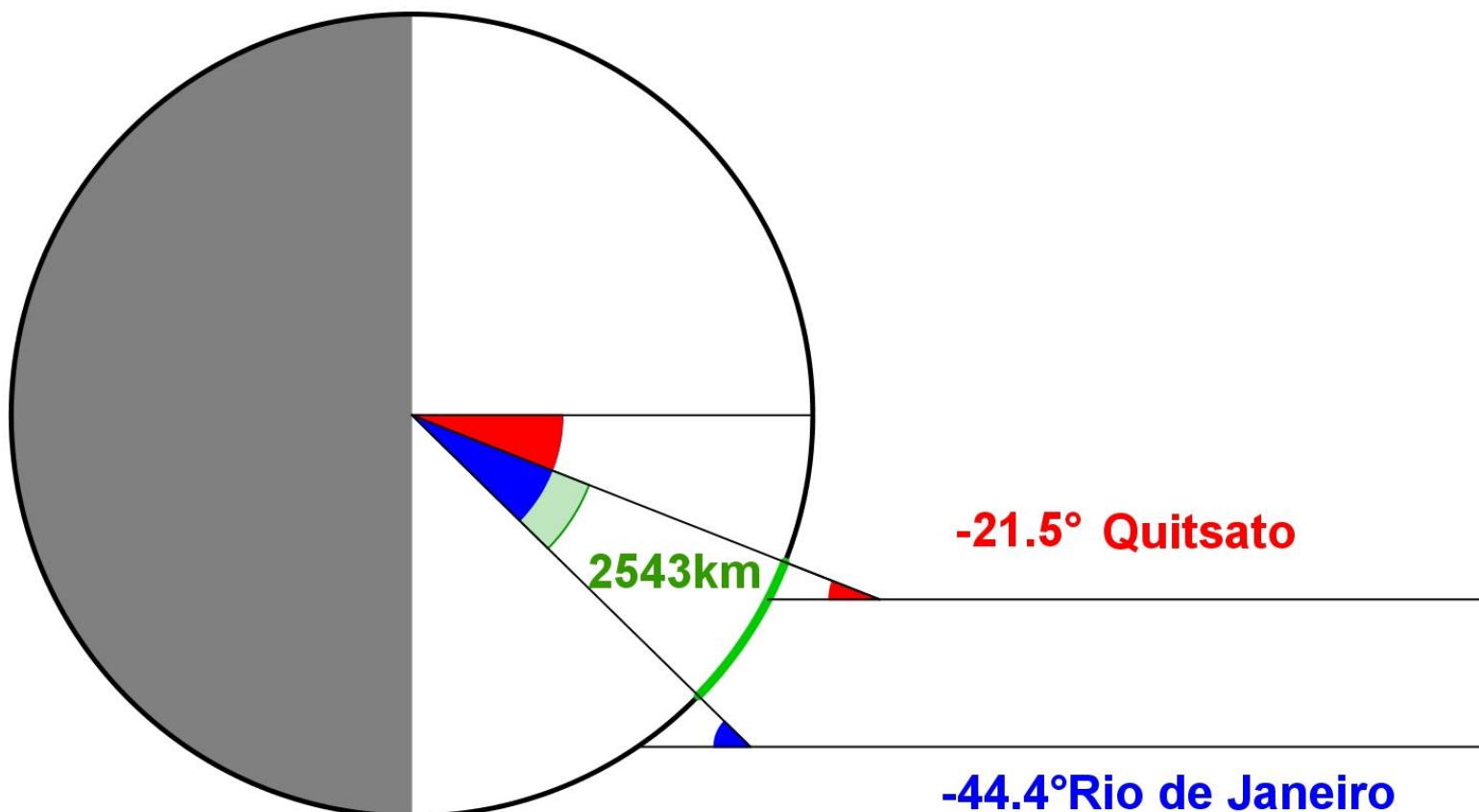


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Quitsato	Ecuador	La Mitad del Mundo Reloj Solar	0,000	-78.175

Date	Gnomon	Shadow	Angle
15 July	1000 cm	-393.5 cm	-21.5 °

15/07/2017 (Quitsato-Ecuador) Latitude: 0°

12/07/2017 (Rio de Janeiro-Brazil) Latitude: -22.89°



$$\text{circumference} = \frac{360^\circ \times 2543\text{km}}{44.4^\circ - 21.5^\circ} = 39977 \text{ km}$$



www.quitsato.org

Rio de Janeiro CENOM, Brazil

July 2017

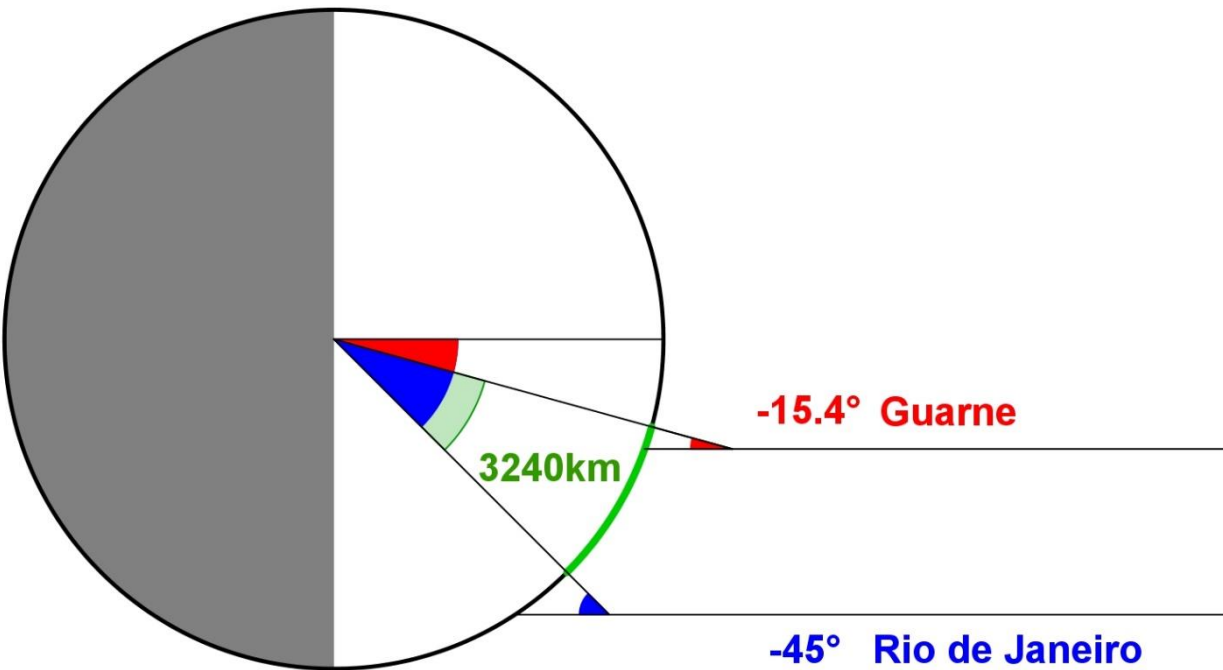


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Centro Educacional Nosso Mundo	-22.890	-43.317

Date	Gnomon	Shadow	Angle
04 July	100 cm	-100 cm	-45 °
05 July	100 cm	-100 cm	-45 °
06 July	100 cm	-100 cm	-45 °
07 July	100 cm	-100 cm	-45 °
11 July	100 cm	-98 cm	-44.4 °
12 July	100 cm	-98 cm	-44.4 °

05/07/2017 (Guarne-Colombia) Latitude: 6.274°

05/07/2017 (Rio de Janeiro-Brazil) Latitude: -22.89°



circumference = $\frac{360^\circ \times 3240\text{km}}{45^\circ - 15.4^\circ} = 39405 \text{ km}$



