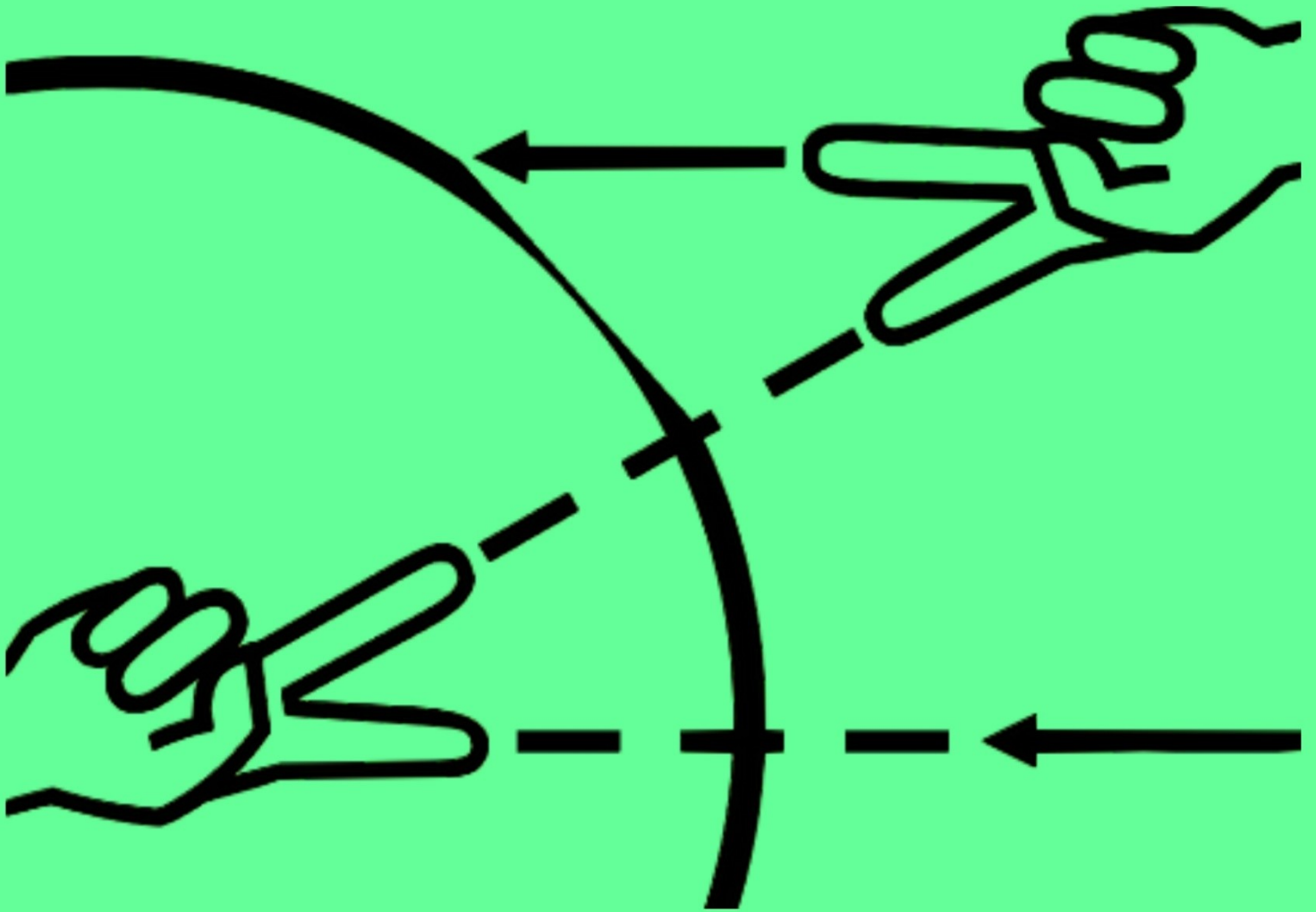


Eratostrhenes



3 Continents

8 Countries

14 Teachers

13 Measures

N°55

July 2020

3 Continents

8 Countries

14 Teachers

13 Measures

ARGENTINA (1)

Alta Gracia, Buenos Aires, Chivilcoy

BRAZIL (2)

Rio de Janeiro, São Mateus

COLOMBIA (1)

Guarne

FRANCE (1)

Lafrançaise

GERMANY (1)

Garmisch Partenkirchen

GREECE (4)

Athens, Kefalonia, Kalamata, Rhodes

PUERO RICO (1)

Bayamón

ROMANIA (3)

Busteni, Dorohoi Margineni

Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Bayamón	Puerto Rico	Gloria María Isidro Villamizar	18.383	-66.168
	Rio de Janeiro	Brazil	Jeane de Fátima	-22.890	-43.317
	Busteni	Romania	Iuliana Ciubuc	45.416	25.535
	Alta Gracia	Argentina	Jose Luis Cabrera	-31.656	-64.417
	São Mateus	Brazil	Marcio Cypriano	-18.716	-39.856
	Guarne	Colombia	Alvaro Jose Cano Mejia	6.274	-75.447
	Rhodes	Greece	Sofia Loutsopoulou	36.423	28.162
	Kalamata	Greece	Athanasia Zafeiropoulou	37.023	22.116
	Kefalonia	Greece	Aspasia Dilalou	38.110	20.560
	Athens	Greece	Bill Kostopoulos	38.130	23.850
	Montcuq	France	Eric Vayssié	44.340	1.210
	Mărgineni Slobozia	Romania	Iuliana Trașcă	44.533	24.554
	Garmisch Partenkirchen	Germany	Christiane Eichel	47.493	11.102
	Dorohoi	Romania	Lidia Baroi	47.954	26.394

Dorohoi, Romania

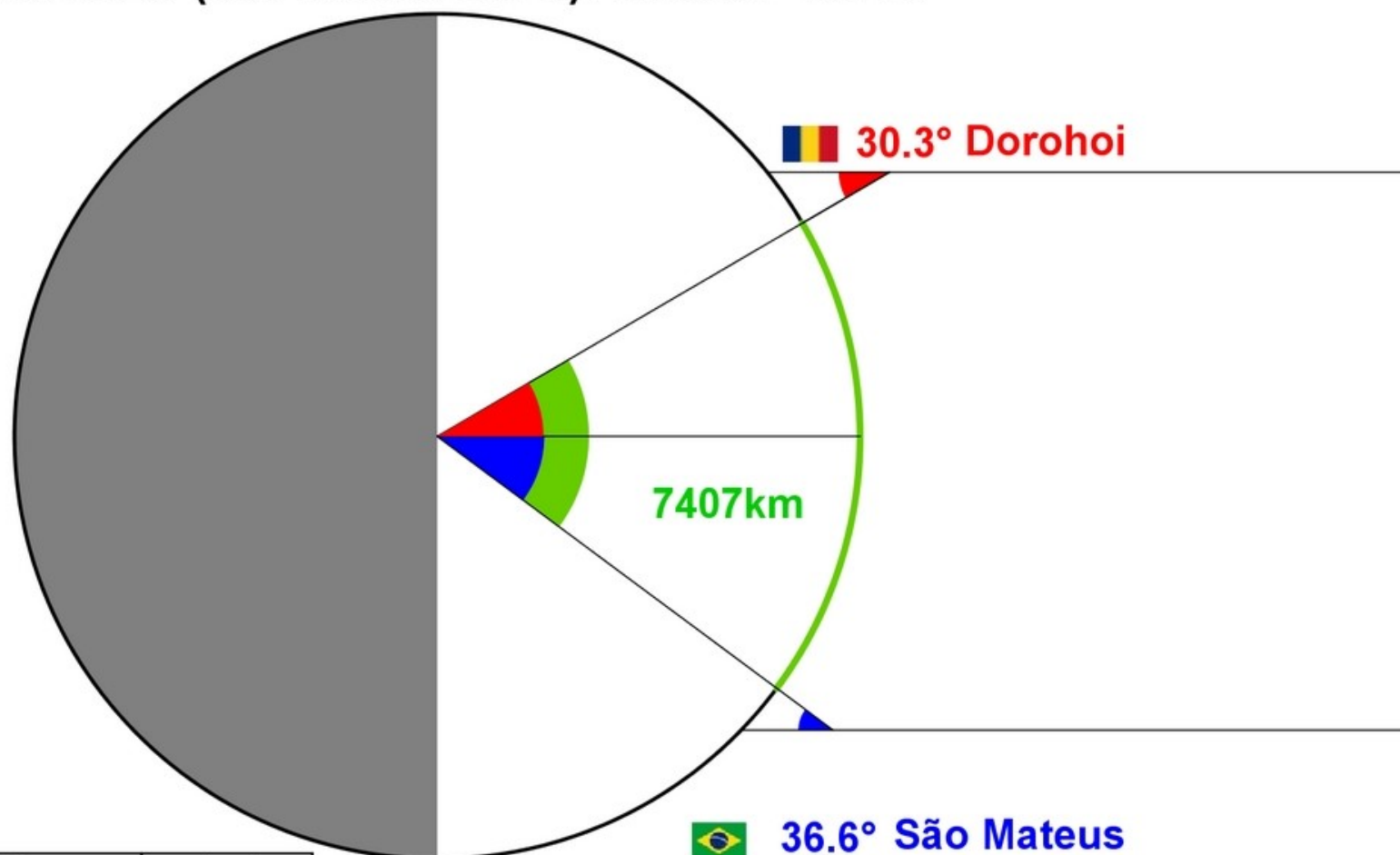


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Dorohoi	Romania	Lidia Baroi	47.954	26.394

Date	Gnomon	Shadow	Angle
30 July 2020	24.0cm	14.0cm	30.3°

30/07/2020 (Dorohoi-Romania) Latitude: 47.954°

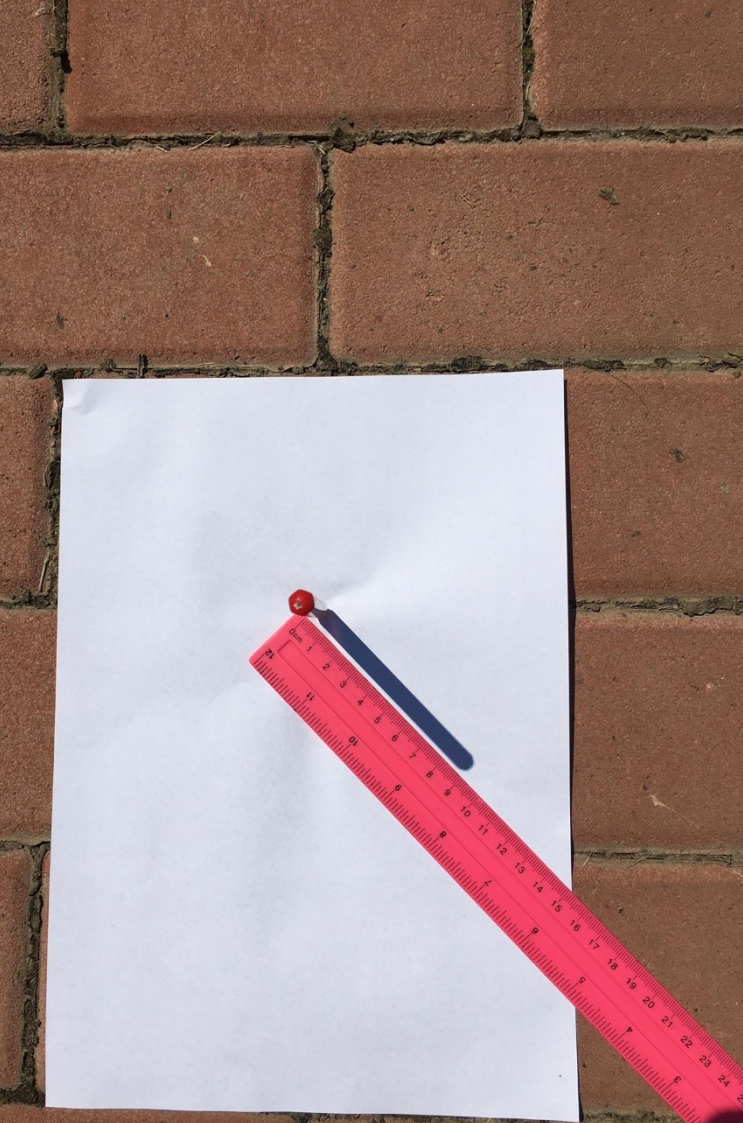
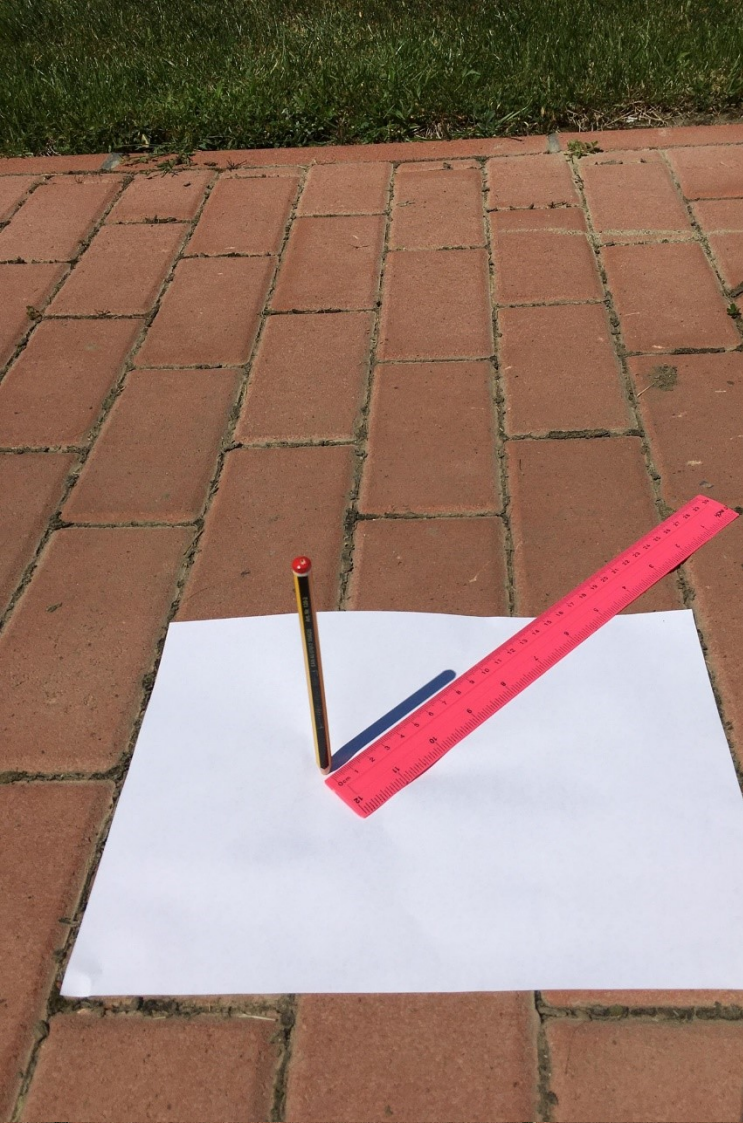
30/07/2020 (São Mateus-Brazil) Latitude: -18.716°



Distance	Angle
circumference	360°
7407km	30.3° + 36.6°

 36.6° São Mateus

$$\text{circumference} = \frac{360^\circ \times 7407\text{km}}{30.3^\circ + 36.6^\circ} = 39858 \text{ km}$$



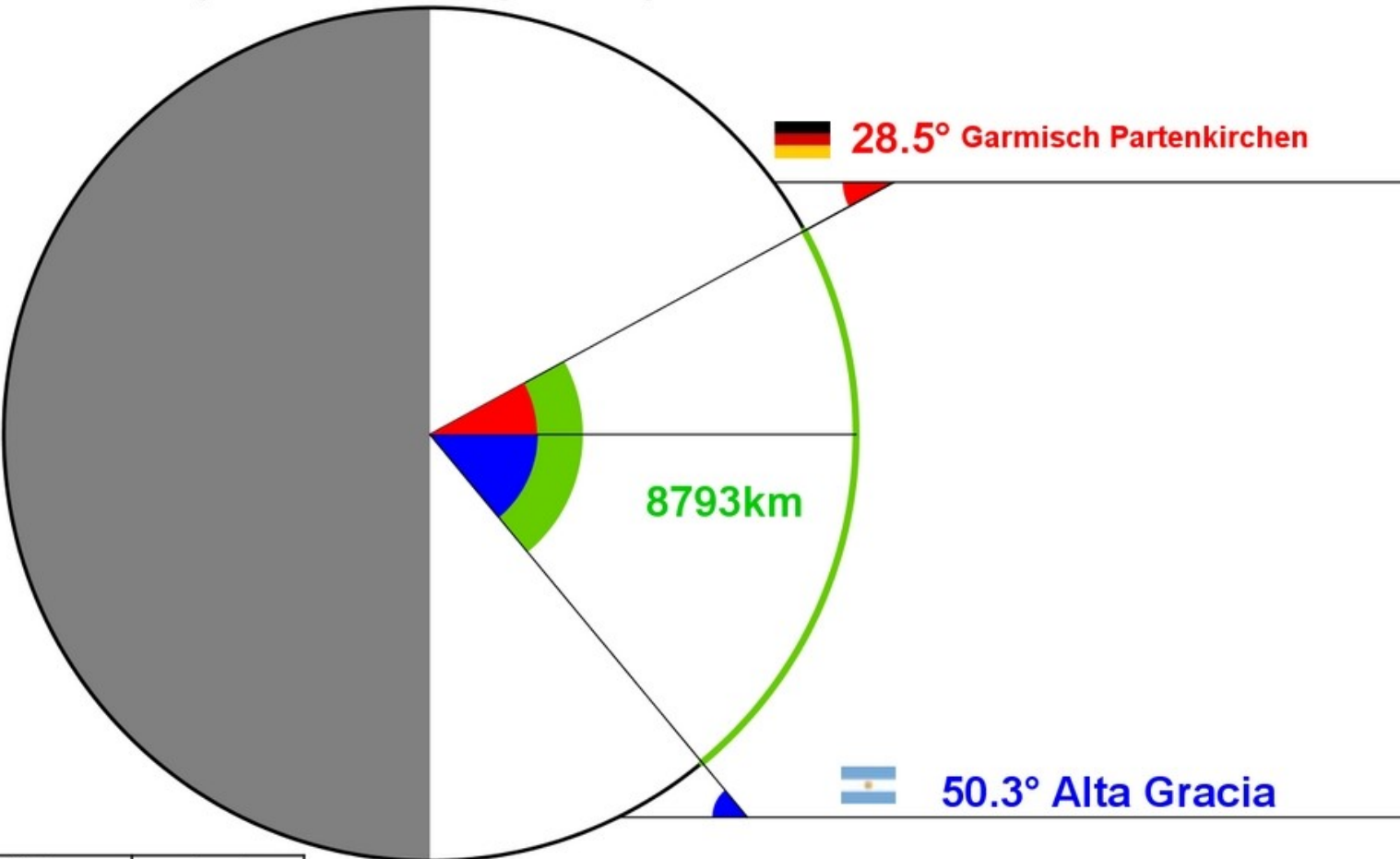
Garmisch Partenkirchen, Germany



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Garmisch Partenkirchen	Germany	Christiane Eichel	47.493	11.102

Date	Gnomon	Shadow	Angle
30 July 2020	93.0cm	50.5cm	28.5°

30/07/2020 (Garmisch Partenkirchen-Germany) Latitude: 47.493°
30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



Distance	Angle
circumference	360°
8793km	28.5°+50.3°

circumference = $\frac{360^\circ \times 8793\text{km}}{28.5^\circ + 50.3^\circ} = 40171 \text{ km}$



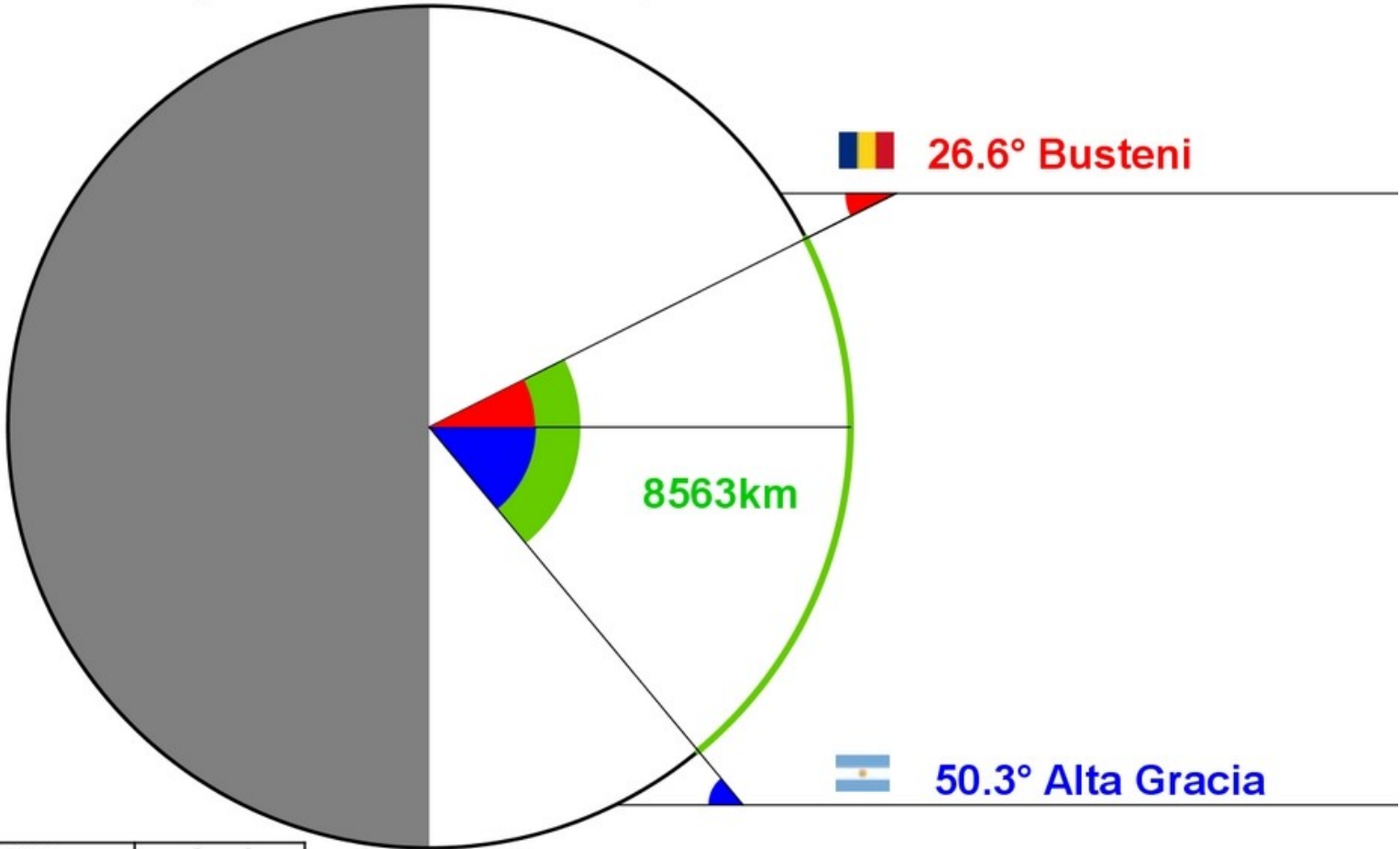
Busteni, Romania



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

Date	Gnomon	Shadow	Angle
30 July 2020	24.0cm	12.0cm	26.6°

30/07/2020 (Busteni-Romania) Latitude: 45.416°
30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



Distance	Angle
circumference	360°
8563km	26.6°+50.3°

circumference = $\frac{360^\circ \times 8563\text{km}}{26.6^\circ + 50.3^\circ} = 40087 \text{ km}$



Margineni, Romania

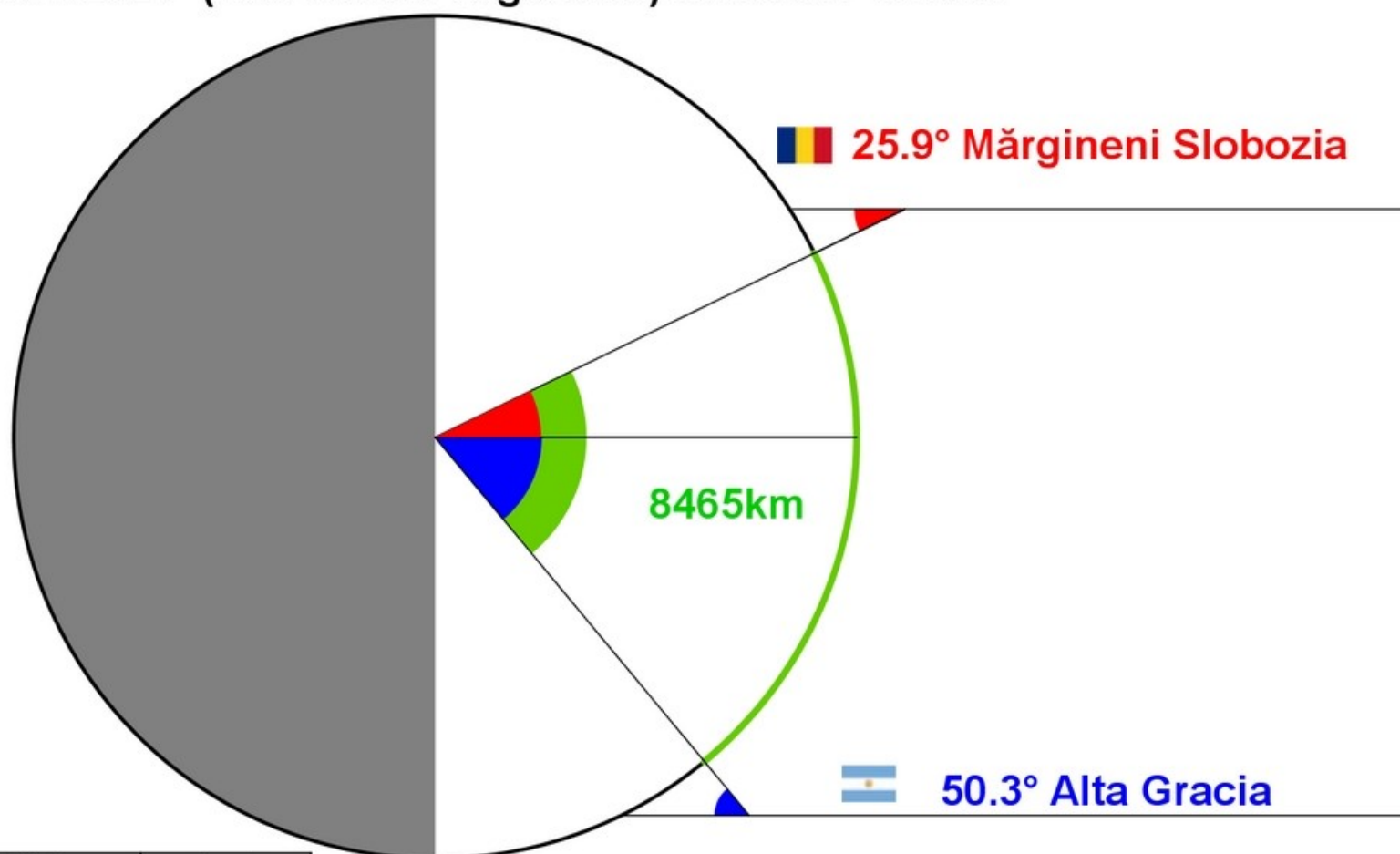


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Mărgineni Slobozia	Romania	Iuliana Trașcă	44.533	24.554

Date	Gnomon	Shadow	Angle
30 July 2020	100.0cm	48.6cm	25.9°

30/07/2020 (Mărgineni Slobozia-Romania) Latitude: 44.533°

30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



$$\text{circumference} = \frac{360^\circ \times 8465\text{km}}{25.9^\circ + 50.3^\circ} = 39992 \text{ km}$$

Distance	Angle
circumference	360°
8465km	25.9°+50.3°

A photograph showing a gravel path or garden bed. On the left, there is a dense patch of green plants with small, serrated leaves and some dried, brownish seed heads. A vertical wooden stake is positioned on the right side of the path. The ground is covered in light-colored gravel and some scattered dried plant matter. The scene is brightly lit, suggesting a sunny day.

Secondary School Gh. Popescu
Margineni Romania
30.07.2020

Montcuq, France

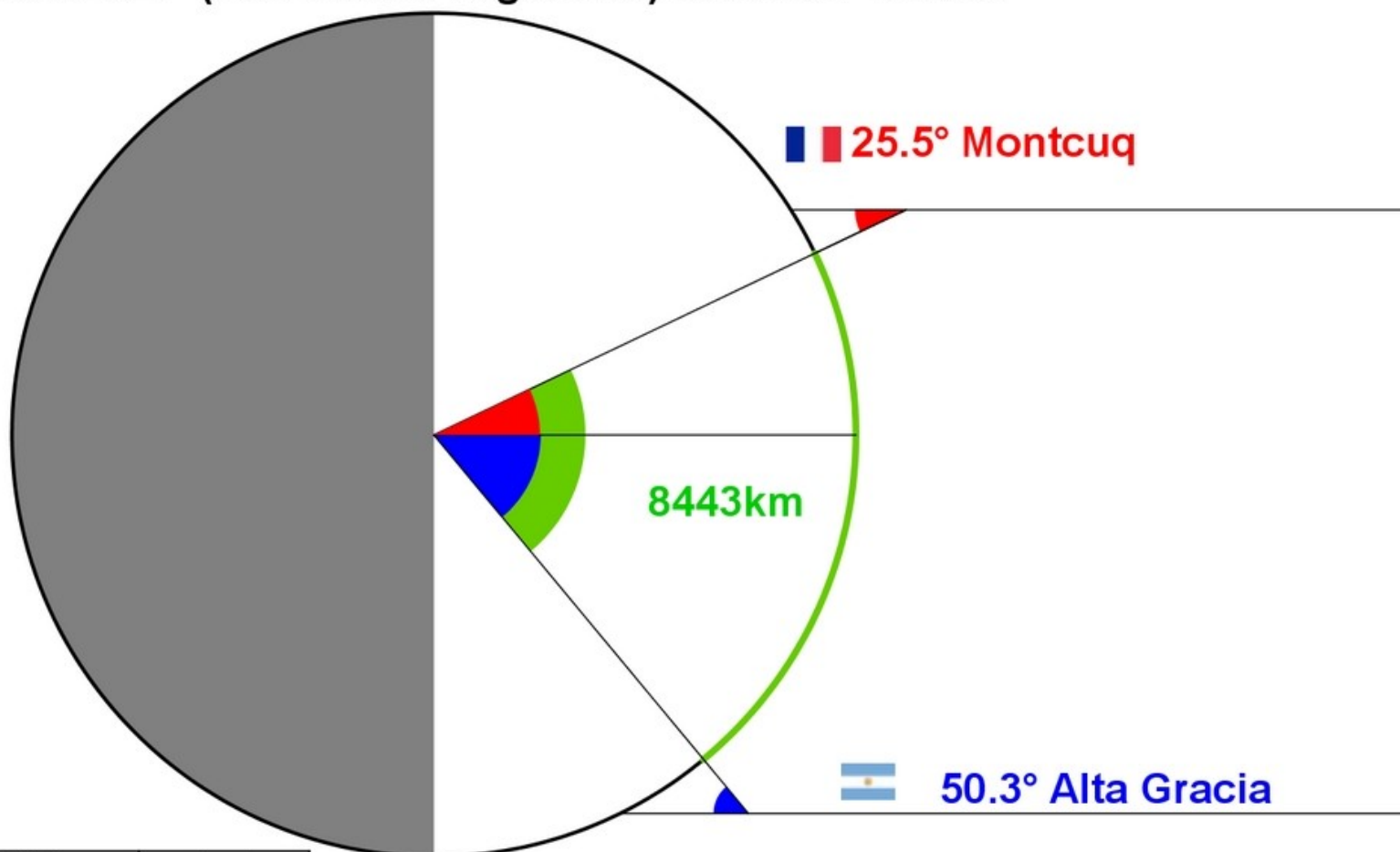


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Montcuq	France	Eric Vayssié	44.340	1.210

Date	Gnomon	Shadow	Angle
30 July 2020	100.0cm	47.8cm	25.5°

30/07/2020 (Montcuq-France) Latitude: 44.34°

30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



$$\text{circumference} = \frac{360^\circ \times 8443\text{km}}{25.5^\circ + 50.3^\circ} = 40099 \text{ km}$$

Distance	Angle
circumference	360°
8443km	25.5°+50.3°



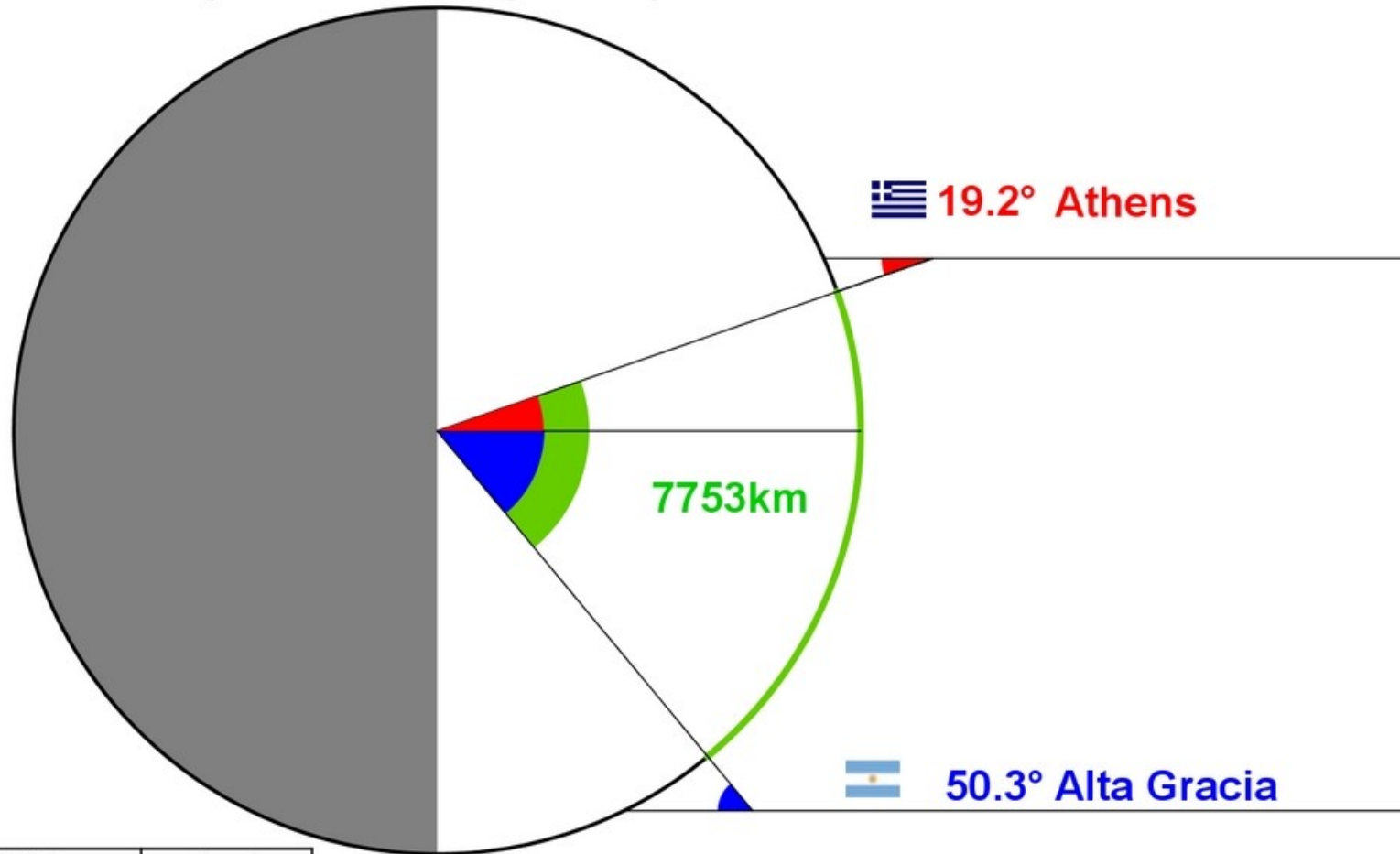
Athens, Greece



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Athens	Greece	Bill Kostopoulos	38.130	23.850

Date	Gnomon	Shadow	Angle
30 July 2020	20.1cm	7.0cm	19.2°

30/07/2020 (Athens-Greece) Latitude: 38.13°
30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



Distance	Angle
circumference	360°
7753km	19.2°+50.3°

circumference = $\frac{360^\circ \times 7753\text{km}}{19.2^\circ + 50.3^\circ} = 40159 \text{ km}$



Kefalonia, Greece

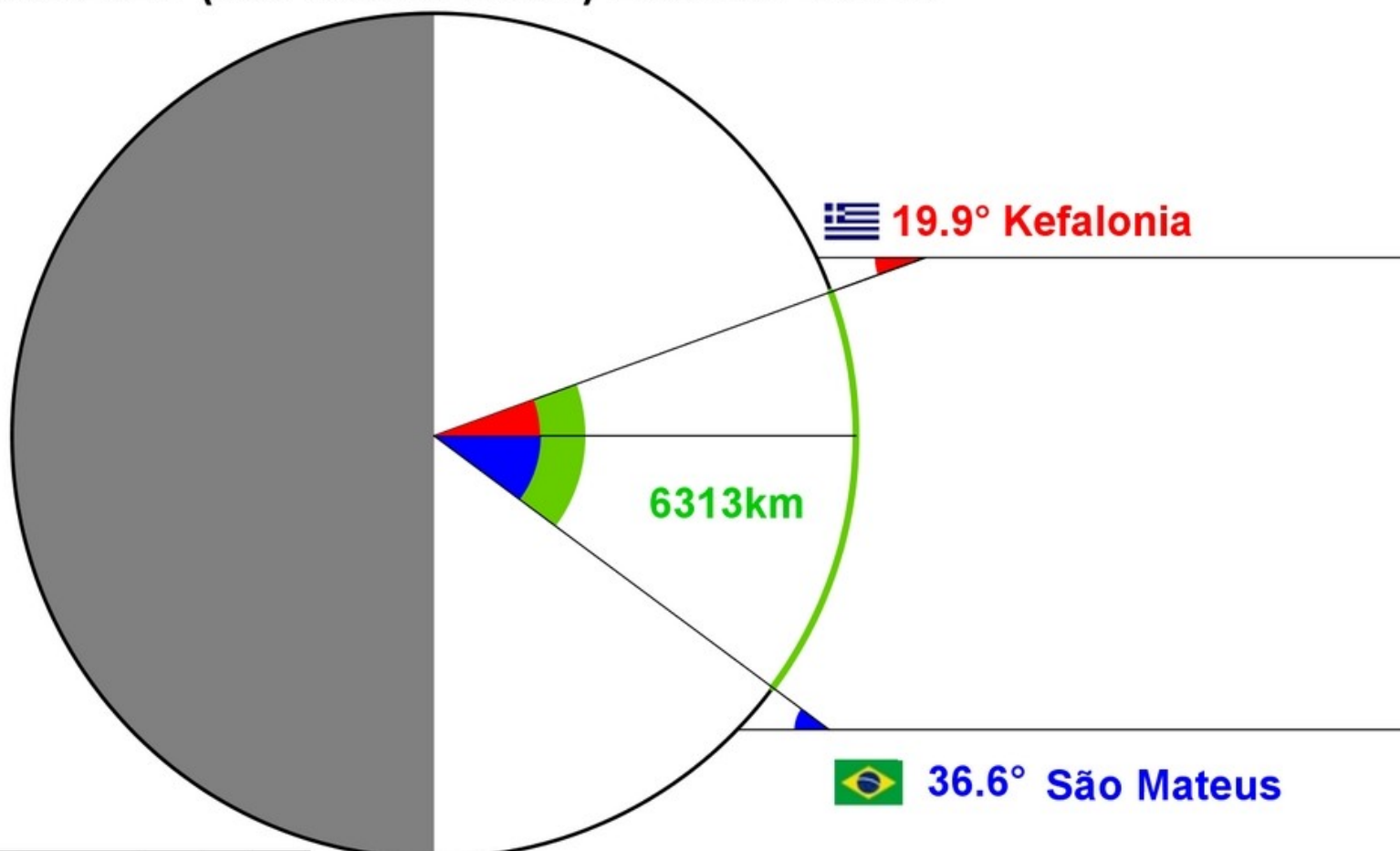


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kefalonia	Greece	Aspasia Dilalou	38.110	20.560

Date	Gnomon	Shadow	Angle
30 July 2020	13.5cm	4.9cm	19.9°

30/07/2020 (Kefalonia-Greece) Latitude: 38.11°

30/07/2020 (São Mateus-Brazil) Latitude: -18.716°



Distance	Angle
circumference	360°
6313km	19.9° + 36.6°

$$\text{circumference} = \frac{360^\circ \times 6313\text{km}}{19.9^\circ + 36.6^\circ} = 40224 \text{ km}$$



Kalamata, Greece

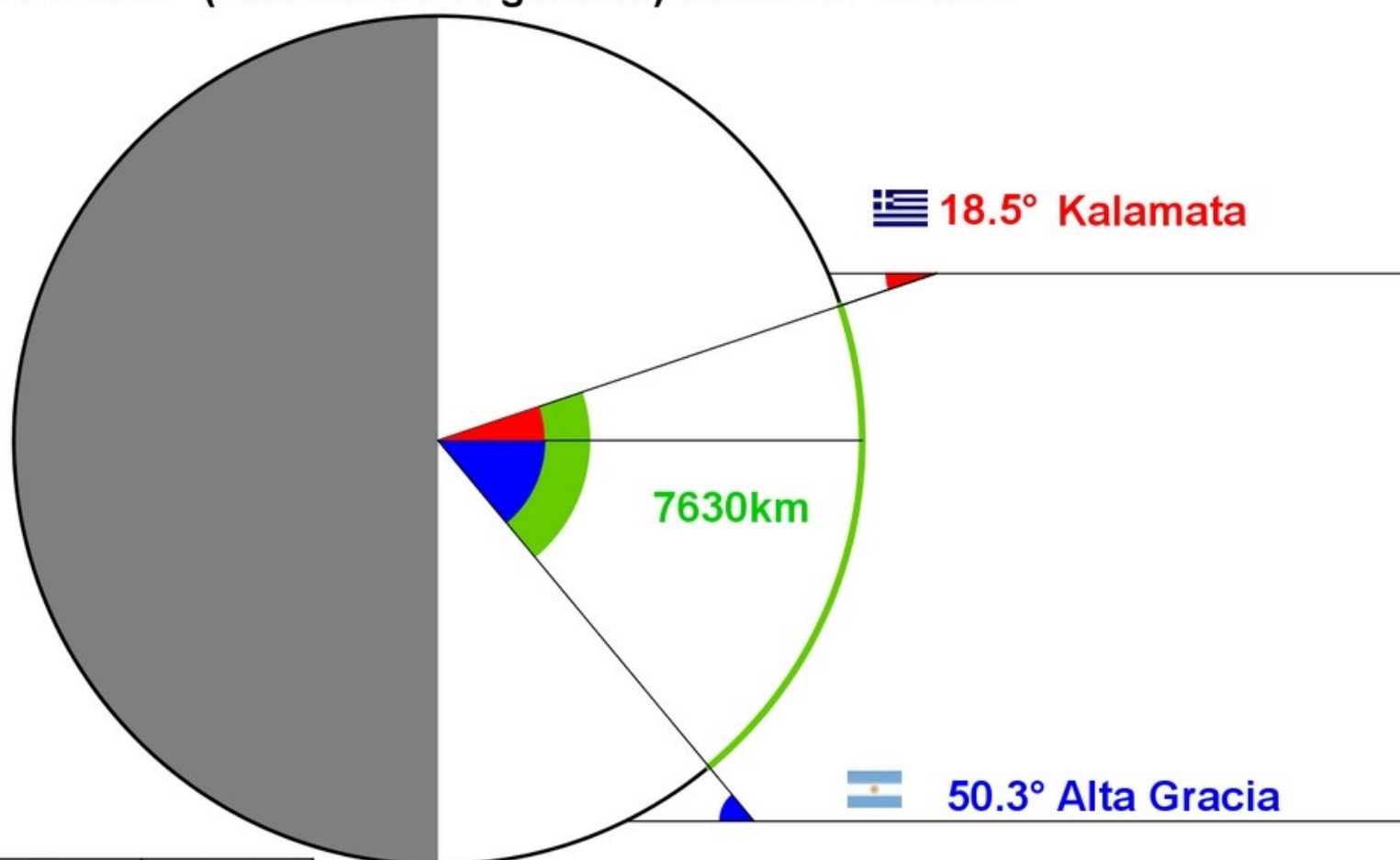


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Kalamata	Greece	Athanasia Zafeiropoulou	37.023	22.116

Date	Gnomon	Shadow	Angle
30 July 2020	30.4cm	10.2cm	18.5°

30/07/2020 (Kalamata-Greece) Latitude: 37.023°

30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



$$\text{circumference} = \frac{360^\circ \times 7630\text{km}}{18.5^\circ + 50.3^\circ} = 39924 \text{ km}$$

Distance	Angle
circumference	360°
7630km	18.5°+50.3°



Rhodes, Greece

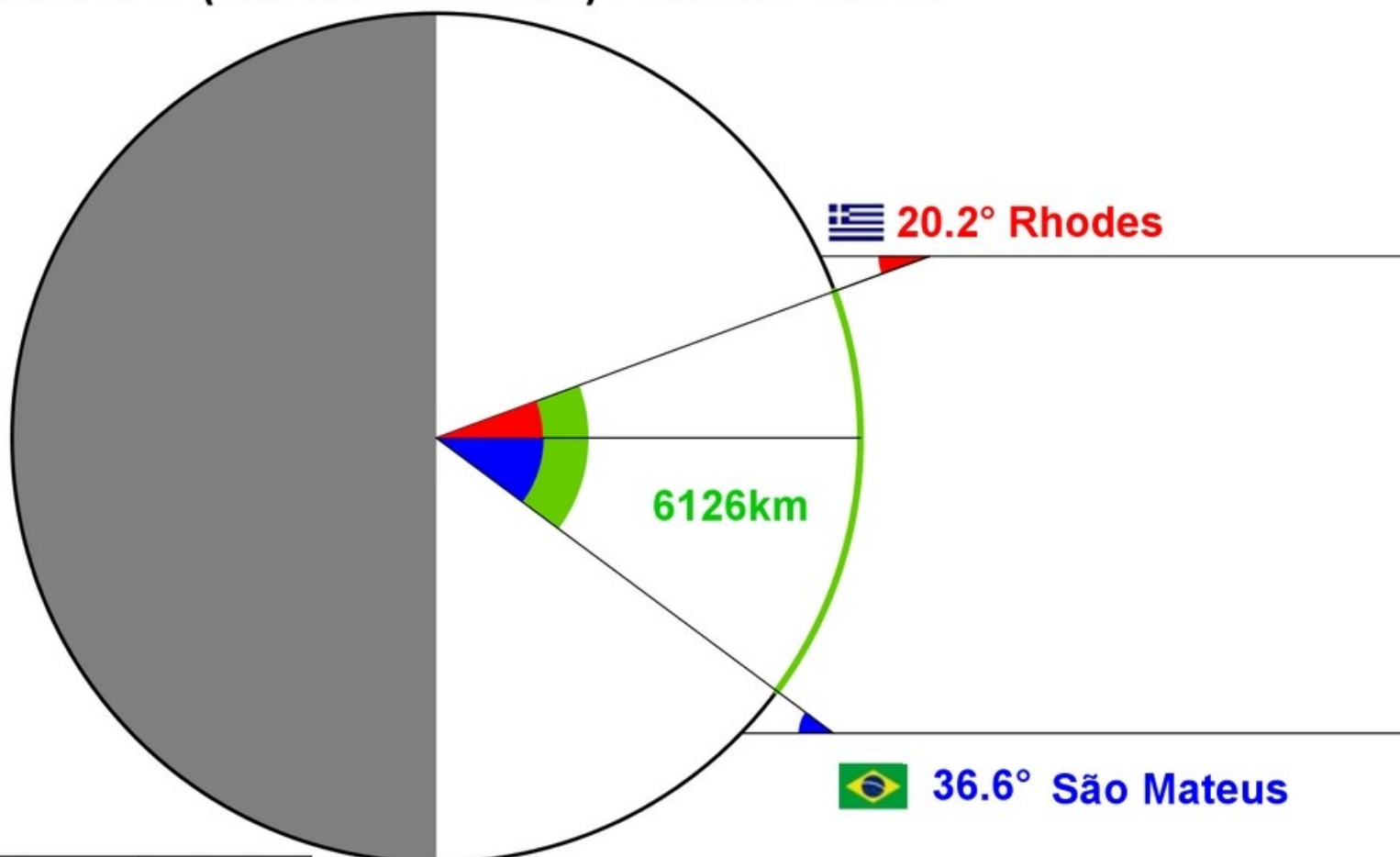


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rhodes	Greece	Sofia Loutsopoulou	36.423	28.162

Date	Gnomon	Shadow	Angle
30 July 2020	19.0cm	7.0cm	20.2°

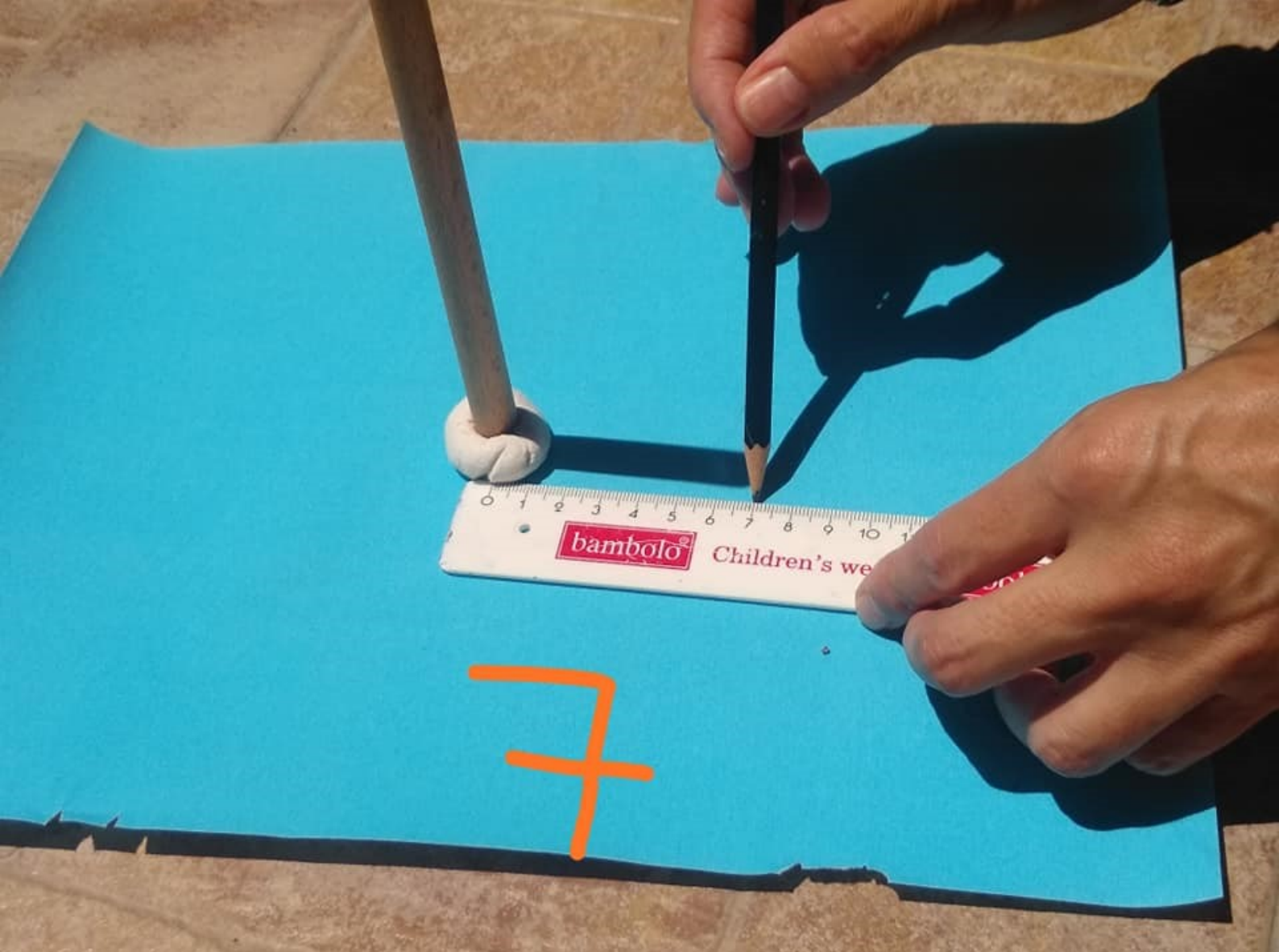
30/07/2020 (Rhodes-Greece) Latitude: 36.423°

30/07/2020 (São Mateus-Brazil) Latitude: -18.716°



Distance	Angle
circumference	360°
6126km	20.2° + 36.6°

$$\text{circumference} = \frac{360^\circ \times 6126\text{km}}{20.2^\circ + 36.6^\circ} = 38827 \text{ km}$$



Guarne, Colombia

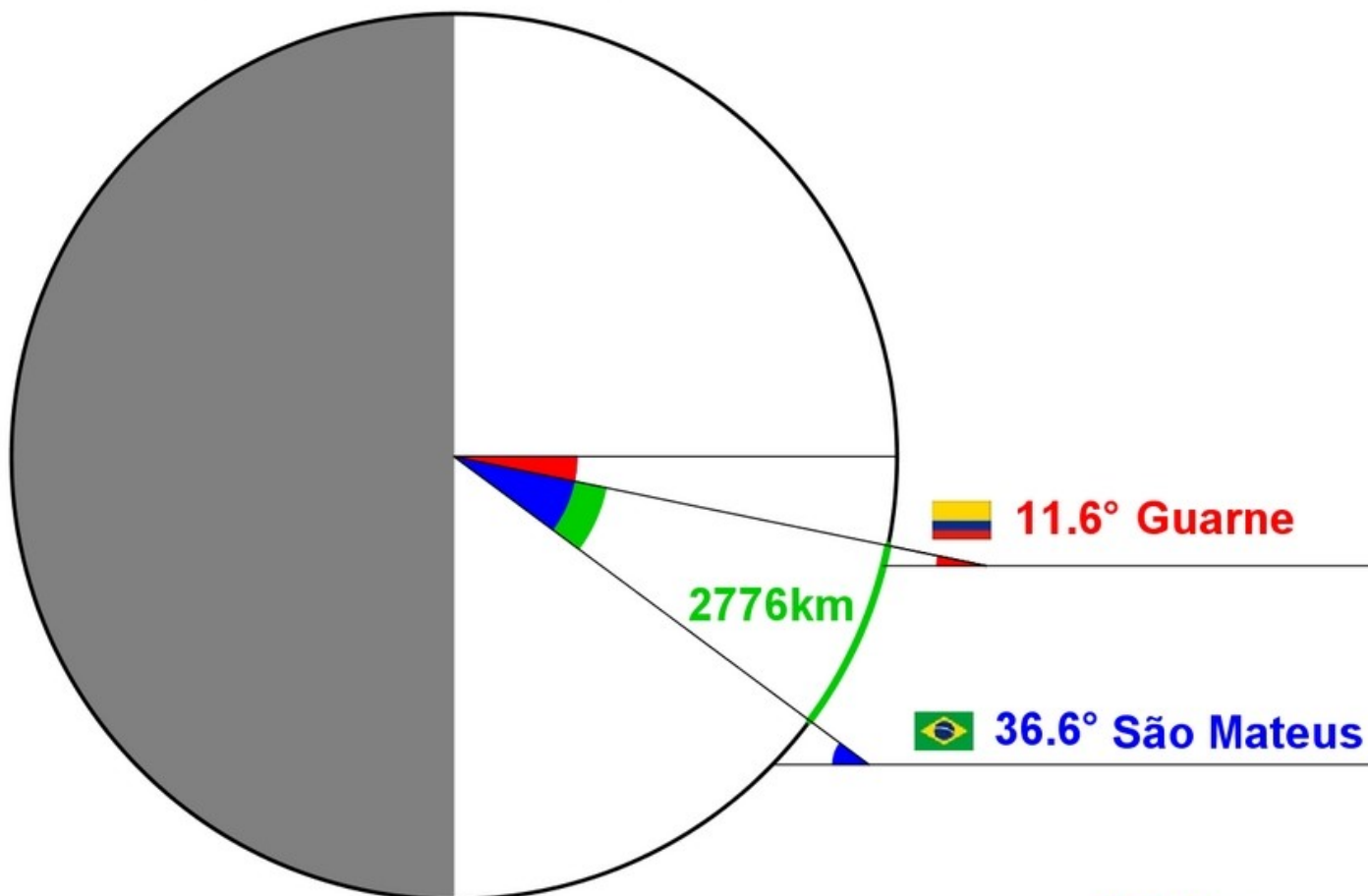


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Guarne	Colombia	Alvaro Jose Cano Mejia	6.274	-75.447

Date	Gnomon	Shadow	Angle
30 July 2020	7.8cm	-1.6cm	-11.6°

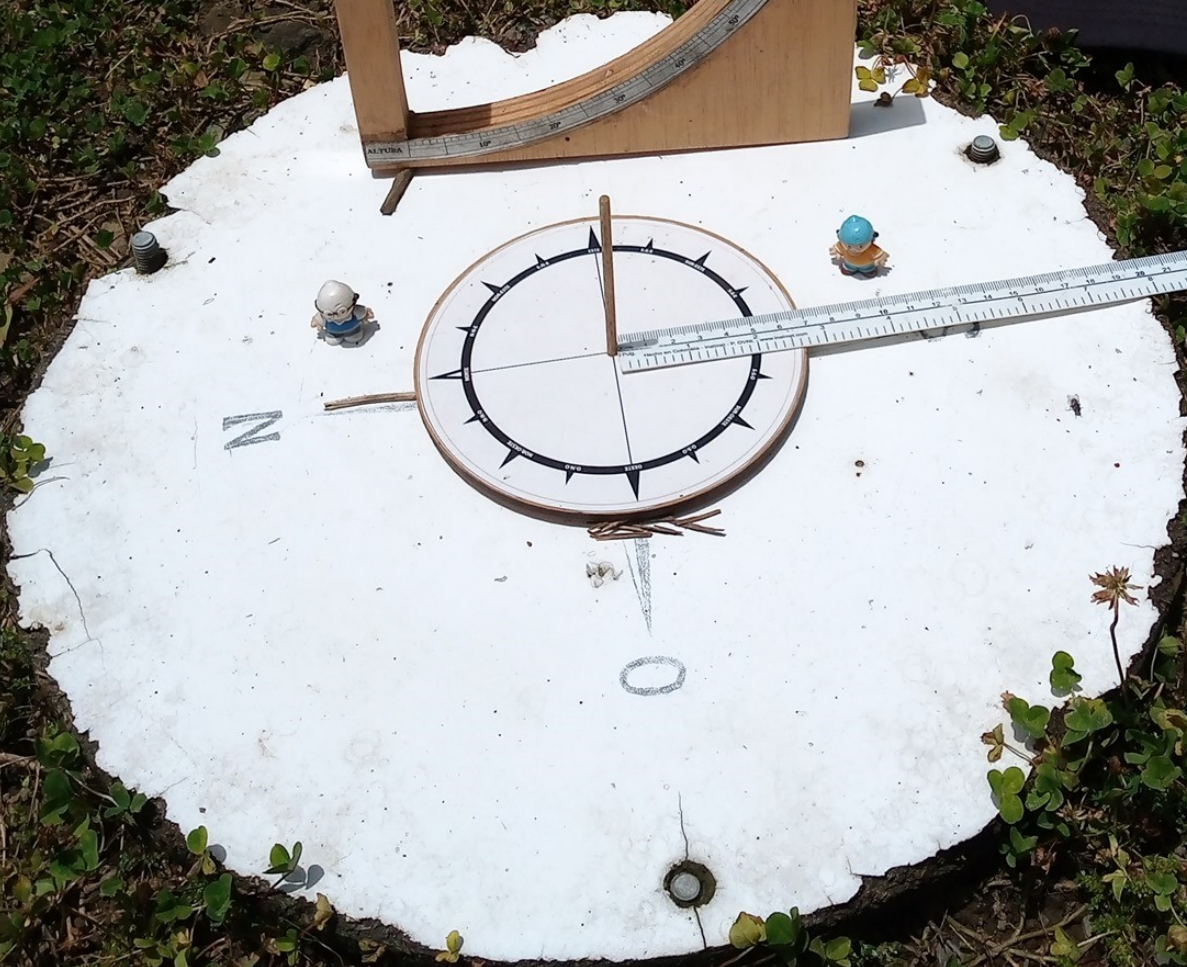
30/07/2020 (Guarne-Colombia) Latitude: 6.274°

30/07/2020 (São Mateus-Brazil) Latitude: -18.716°



Distance	Angle
circumference	360°
2776km	36.6° - 11.6°

$$\text{circumference} = \frac{360^\circ \times 2776\text{km}}{36.6^\circ - 11.6^\circ} = 39974 \text{ km}$$



São Mateus, Brazil

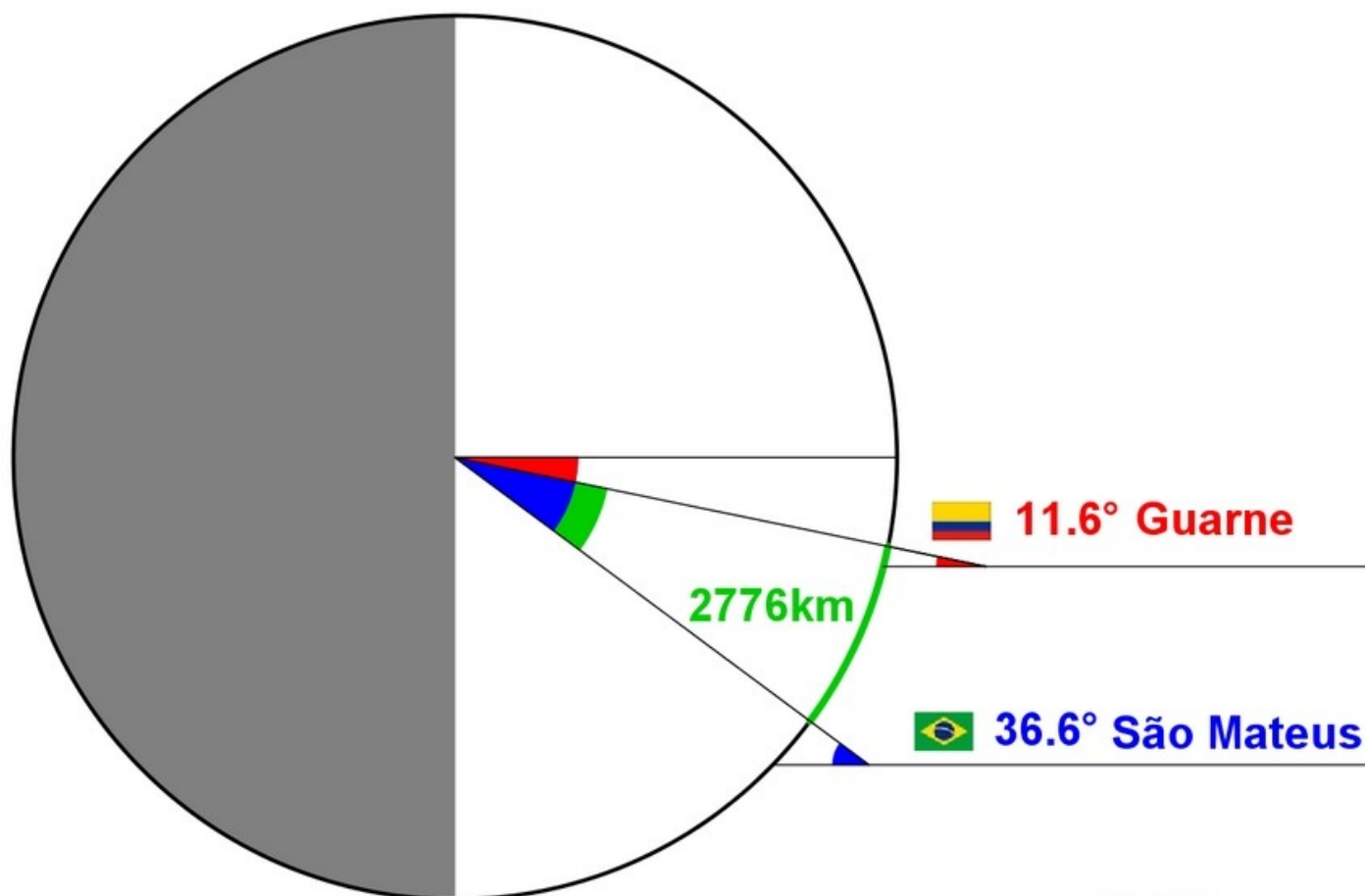


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	São Mateus	Brazil	Marcio Cypriano	-18.716	-39.856

Date	Gnomon	Shadow	Angle
30 July 2020	19.5cm	-14.5cm	-36.6°

30/07/2020 (Guarne-Colombia) Latitude: 6.274°

30/07/2020 (São Mateus-Brazil) Latitude: -18.716°



Distance	Angle
circumference	360°
2776km	36.6° - 11.6°

$$\text{circumference} = \frac{360^\circ \times 2776\text{km}}{36.6^\circ - 11.6^\circ} = 39974 \text{ km}$$



Alta Gracia, Argentina

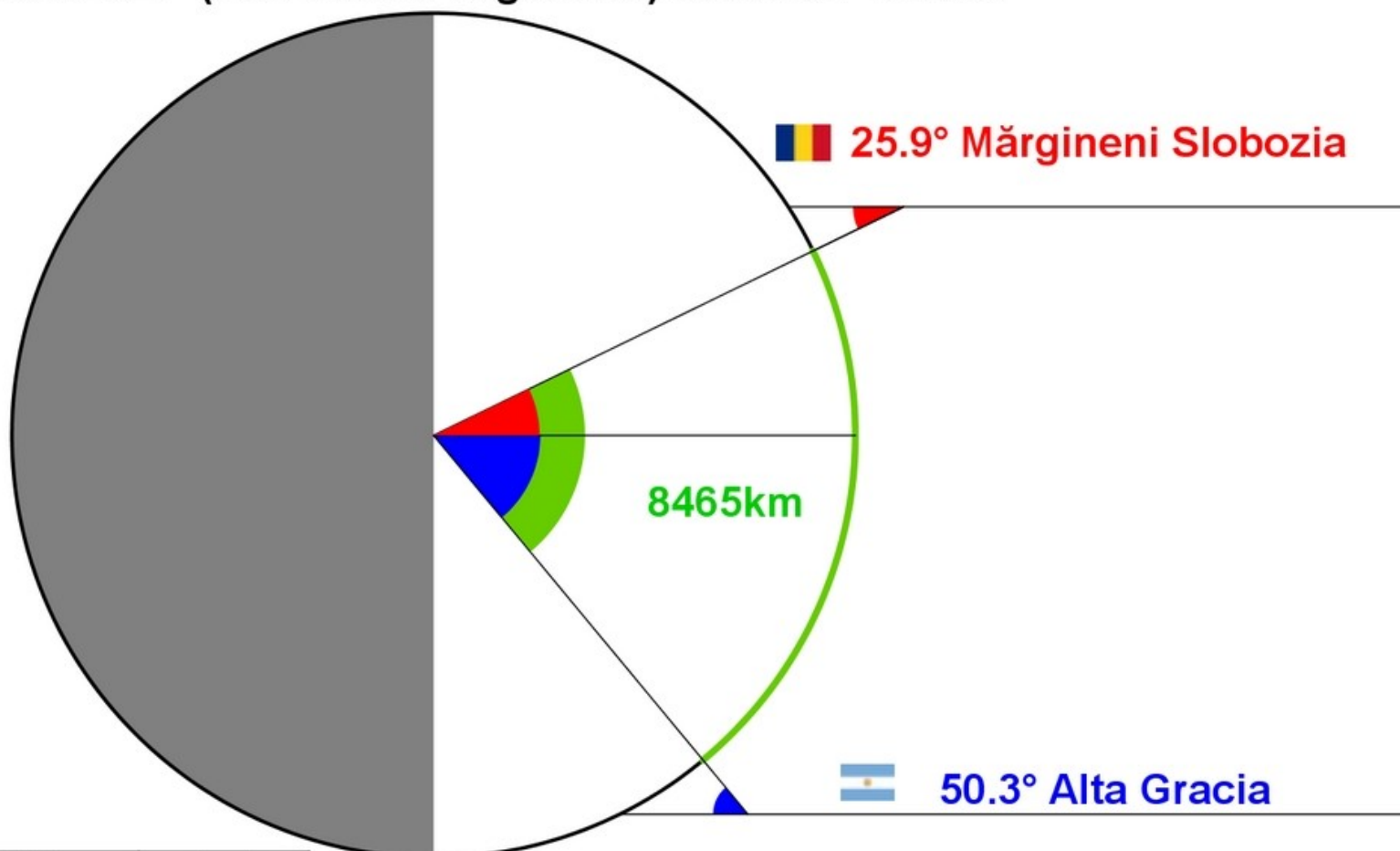


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Alta Gracia	Argentina	Jose Luis Cabrera	-31.656	-64.417

Date	Gnomon	Shadow	Angle
30 July 2020	22.0cm	-26.5cm	-50.3°

30/07/2020 (Mărgineni Slobozia-Romania) Latitude: 44.533°

30/07/2020 (Alta Gracia-Argentina) Latitude: -31.656°



Distance	Angle
circumference	360°
8465km	25.9°+50.3°

$$\text{circumference} = \frac{360^\circ \times 8465\text{km}}{25.9^\circ + 50.3^\circ} = 39992 \text{ km}$$



Rio de Janeiro CENOM, Brazil

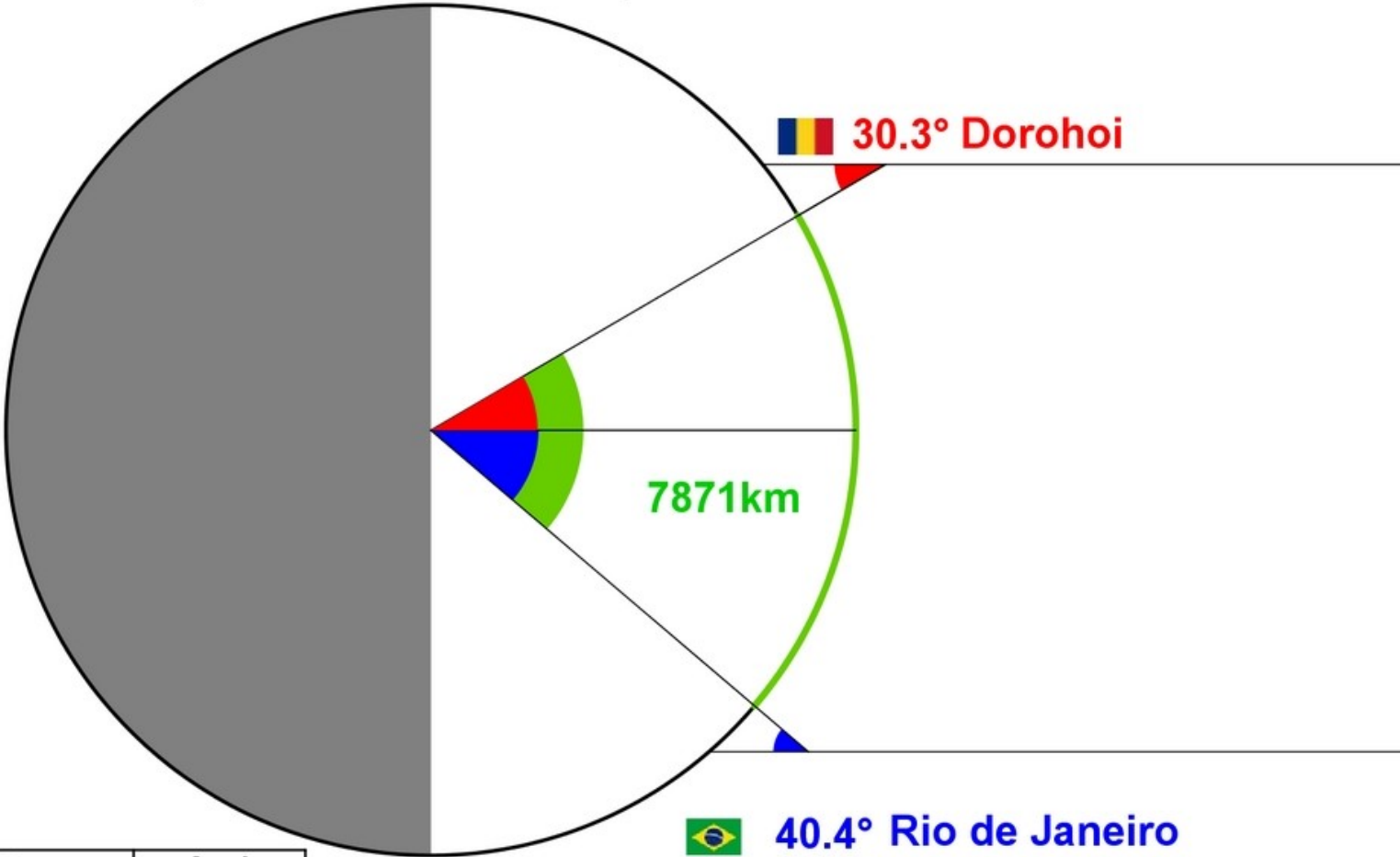


Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Rio de Janeiro	Brazil	Jeane de Fátima	-22.890	-43.317

Date	Gnomon	Shadow	Angle
31 July 2021	20.0cm	-17.0cm	-40.4°

30/07/2020 (Dorohoi-Romania) Latitude: 47.954°

31/07/2021 (Rio de Janeiro-Brazil) Latitude: -22.89°



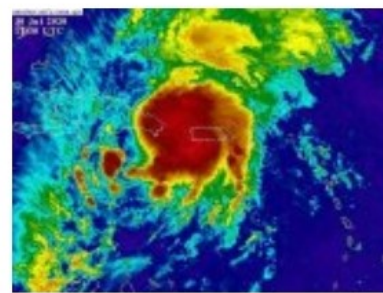
Distance	Angle
circumference	360°
7871km	30.3°+40.4°

 40.4° Rio de Janeiro

$$\text{circumference} = \frac{360^\circ \times 7871\text{km}}{30.3^\circ + 40.4^\circ} = 40079 \text{ km}$$



Bayamón, Puerto Rico



Flag	City	Country	School	Latitude (°) +N/-S	Longitude (°) +E/-W
	Bayamón	Puerto Rico	Gloria María Isidro Villamizar	18.383	-66.168

Date	Gnomon	Shadow	Angle
30 July 2020	cm	cm	°

