

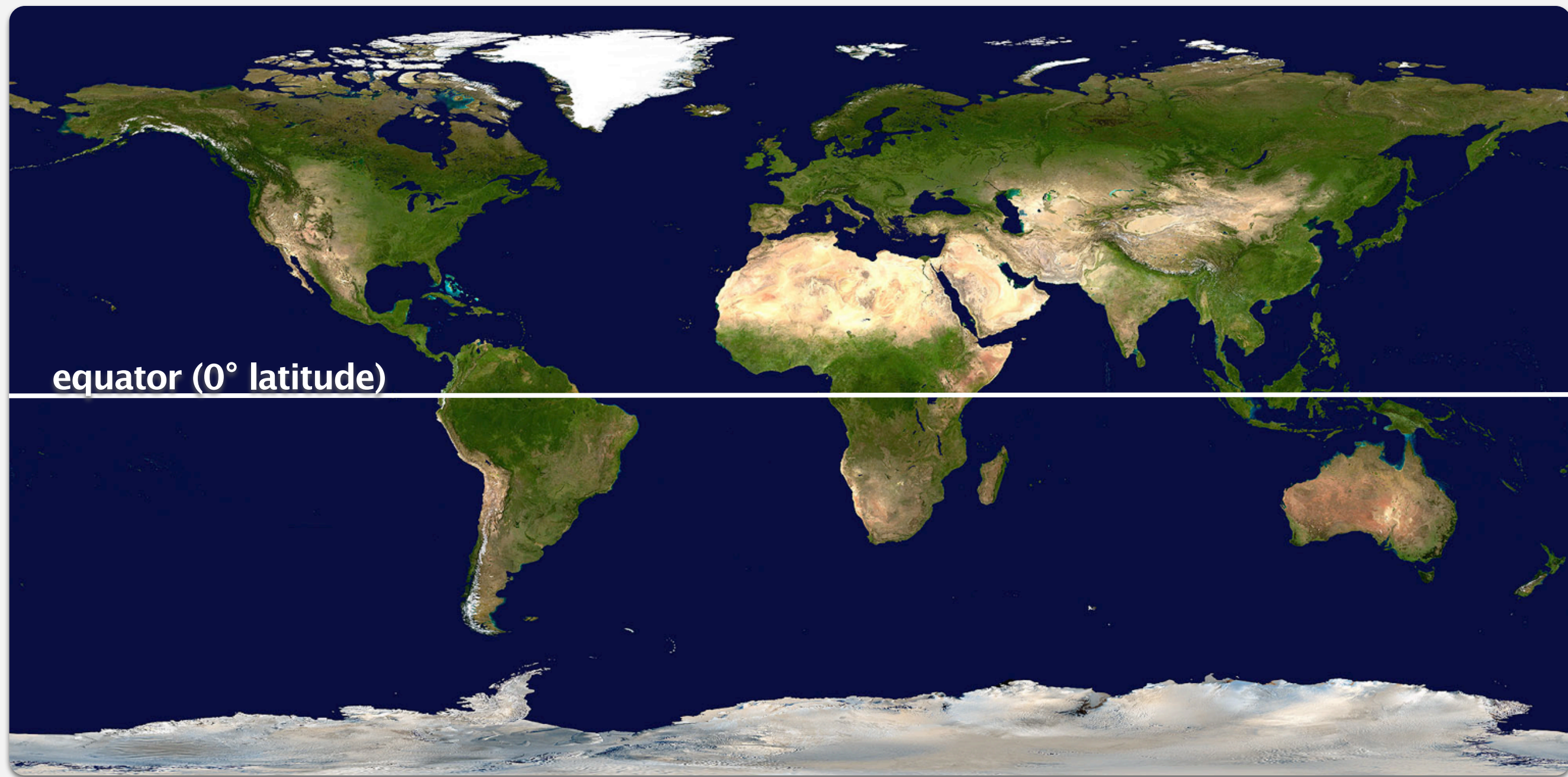
Latitude and Longitude

Begin

The Earth is divided in two halves, the “top” half is called the northern hemisphere, and the “bottom” half is called the southern hemisphere. The dividing line between the two hemispheres is called the equator, and is measured as 0° latitude.

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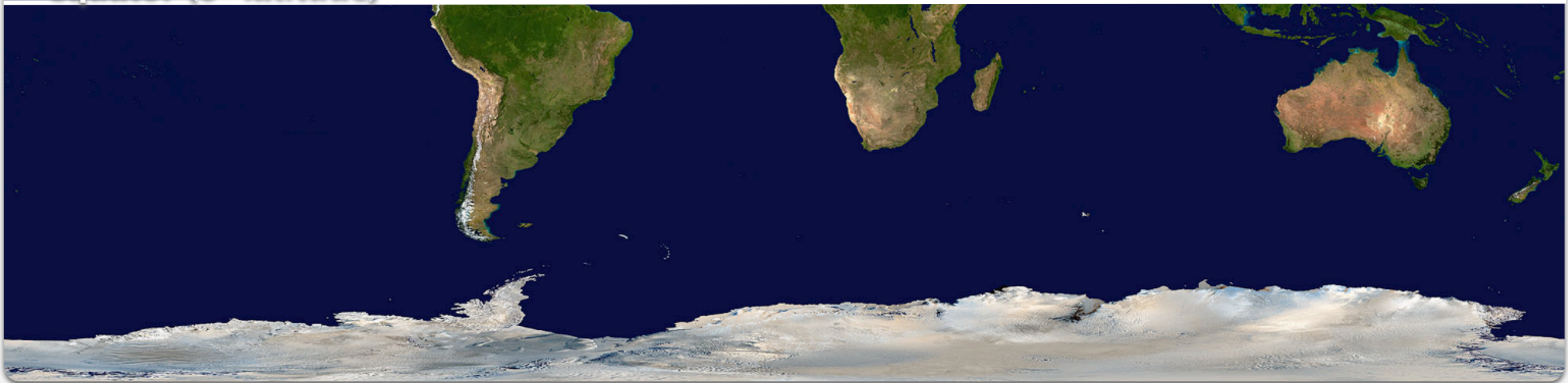


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Northern Hemisphere

equator (0° latitude)



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equator (0° latitude)

Southern Hemisphere

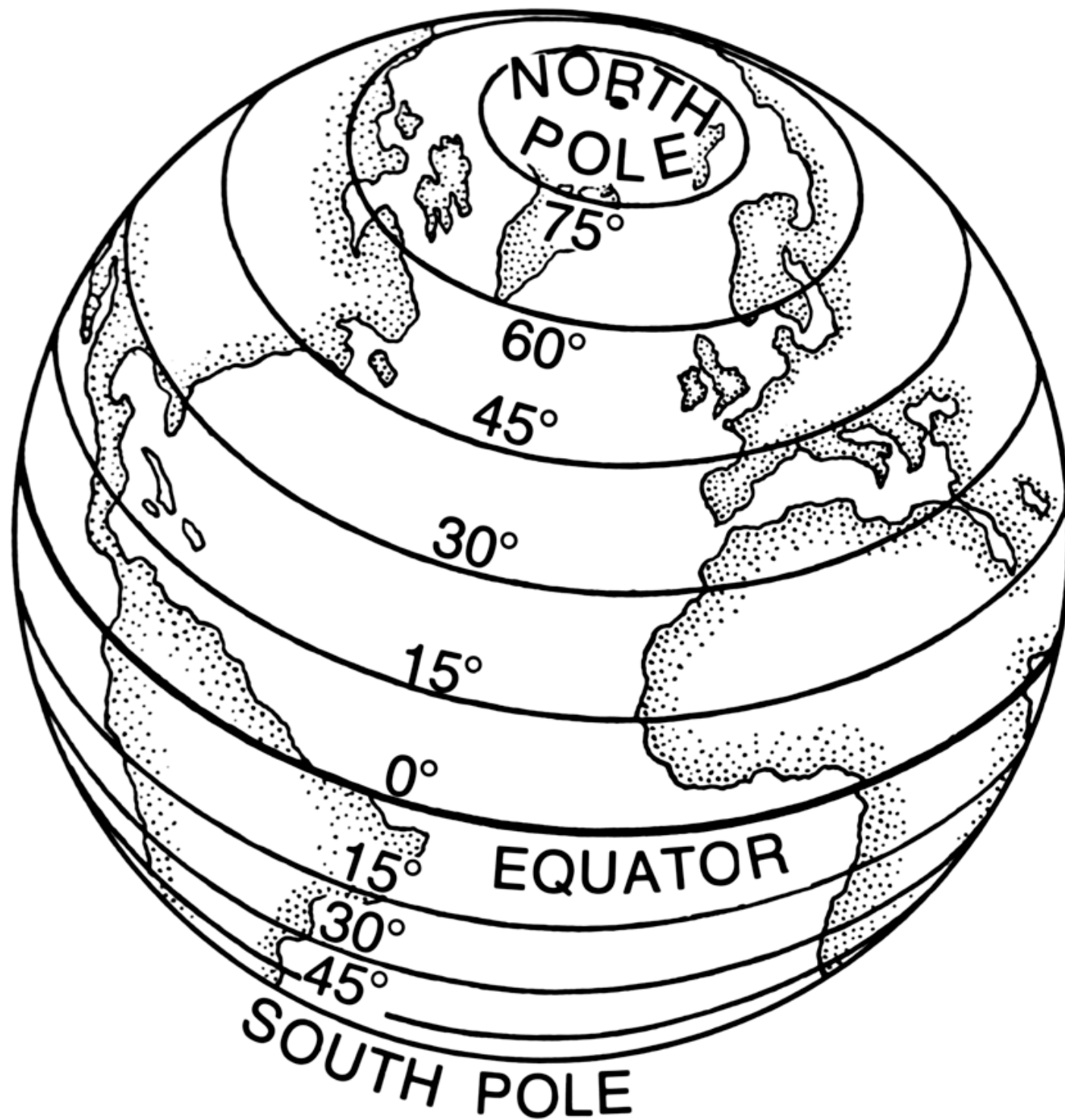
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Latitude is a measurement of how far north or south of the equator you are. Latitudes range from the equator (0°) to 90° north and from the equator (0°) to 90° south. Latitude lines are horizontal like the rungs of a ladder. Think of them as flat (“flat-itude”).

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Notice how lines of latitude are parallel to one another. They are often called “parallels” for this reason.

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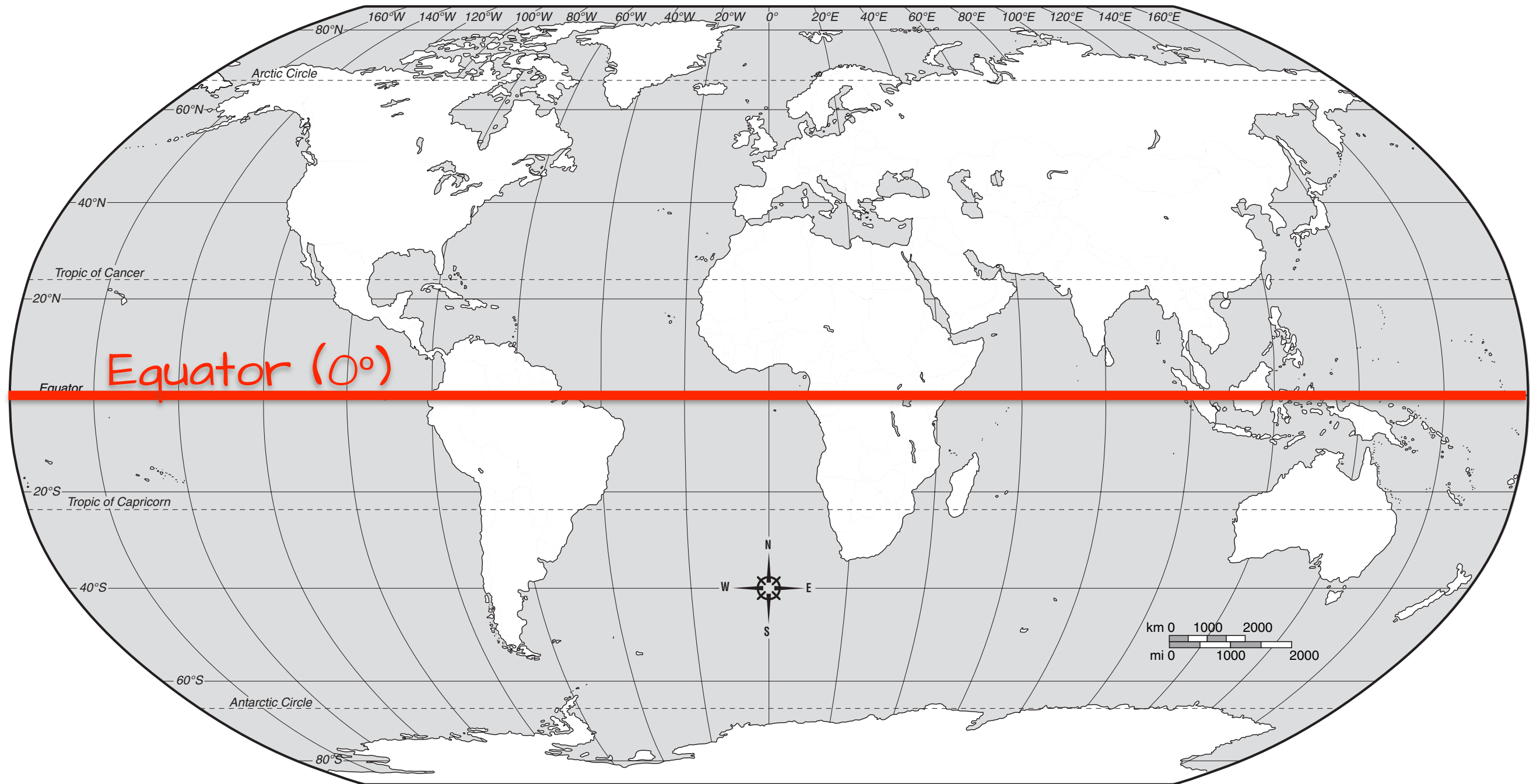
Some important latitudes to know:

Equator	0°
Tropic of Cancer	23.5° N
Tropic of Capricorn	23.5° S
Arctic Circle	66.5° N
Antarctic Circle	66.5° S
North Pole	90° N
South Pole	90° S
Mamaroneck, NY	41° N

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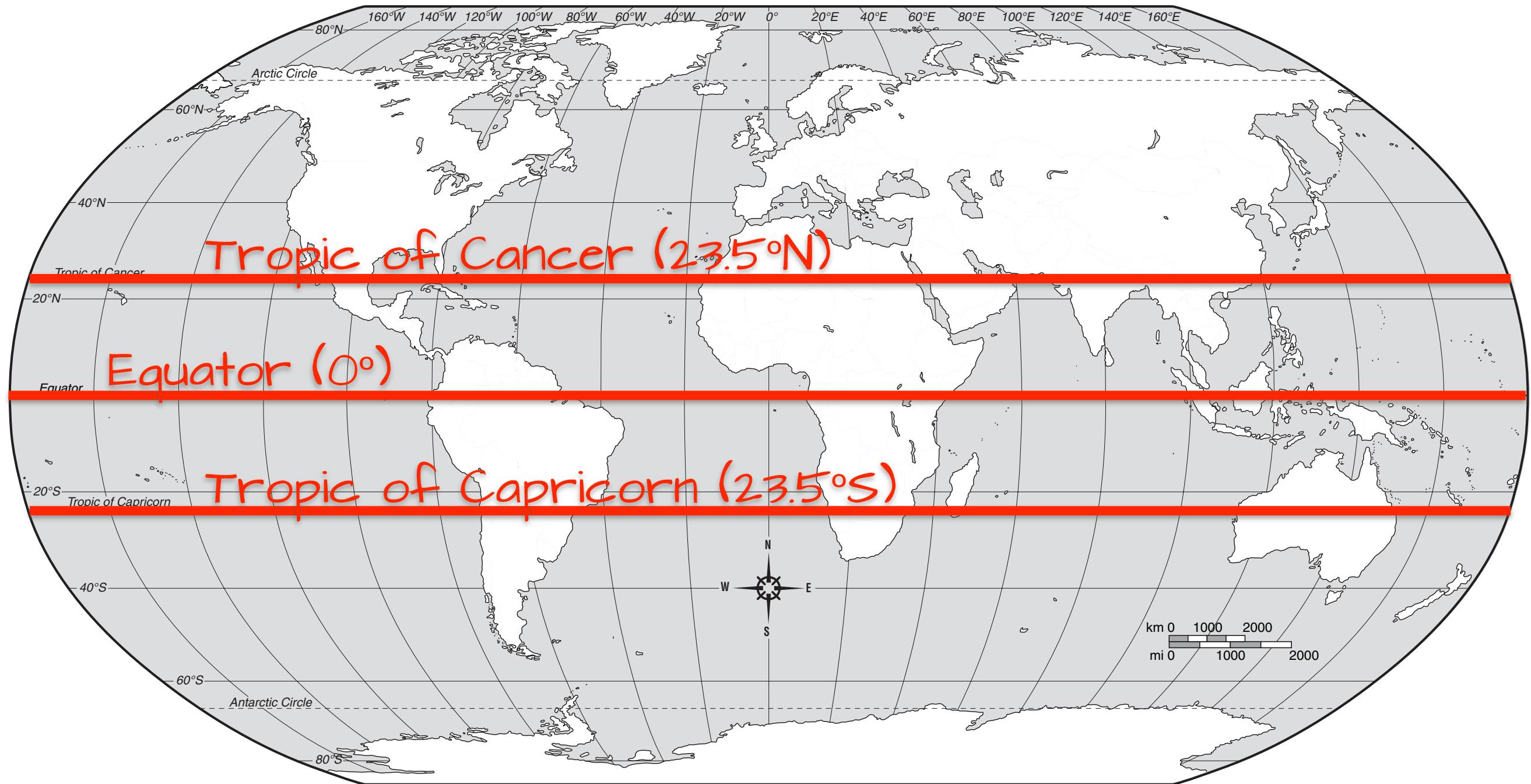
Highlight the equator in red. Label it.



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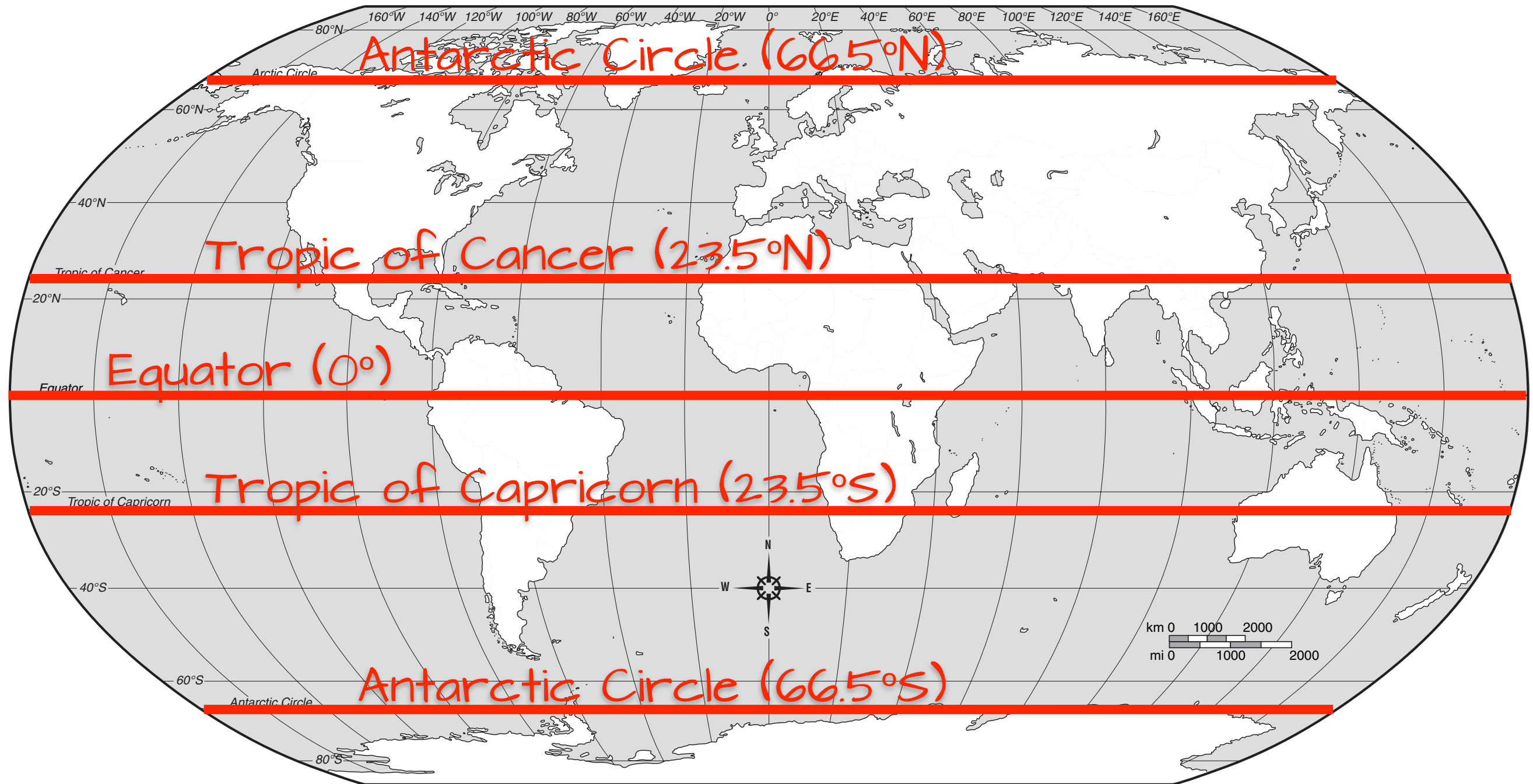
Highlight the tropics in red. Label them.



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Highlight the polar circles in red. Label them.

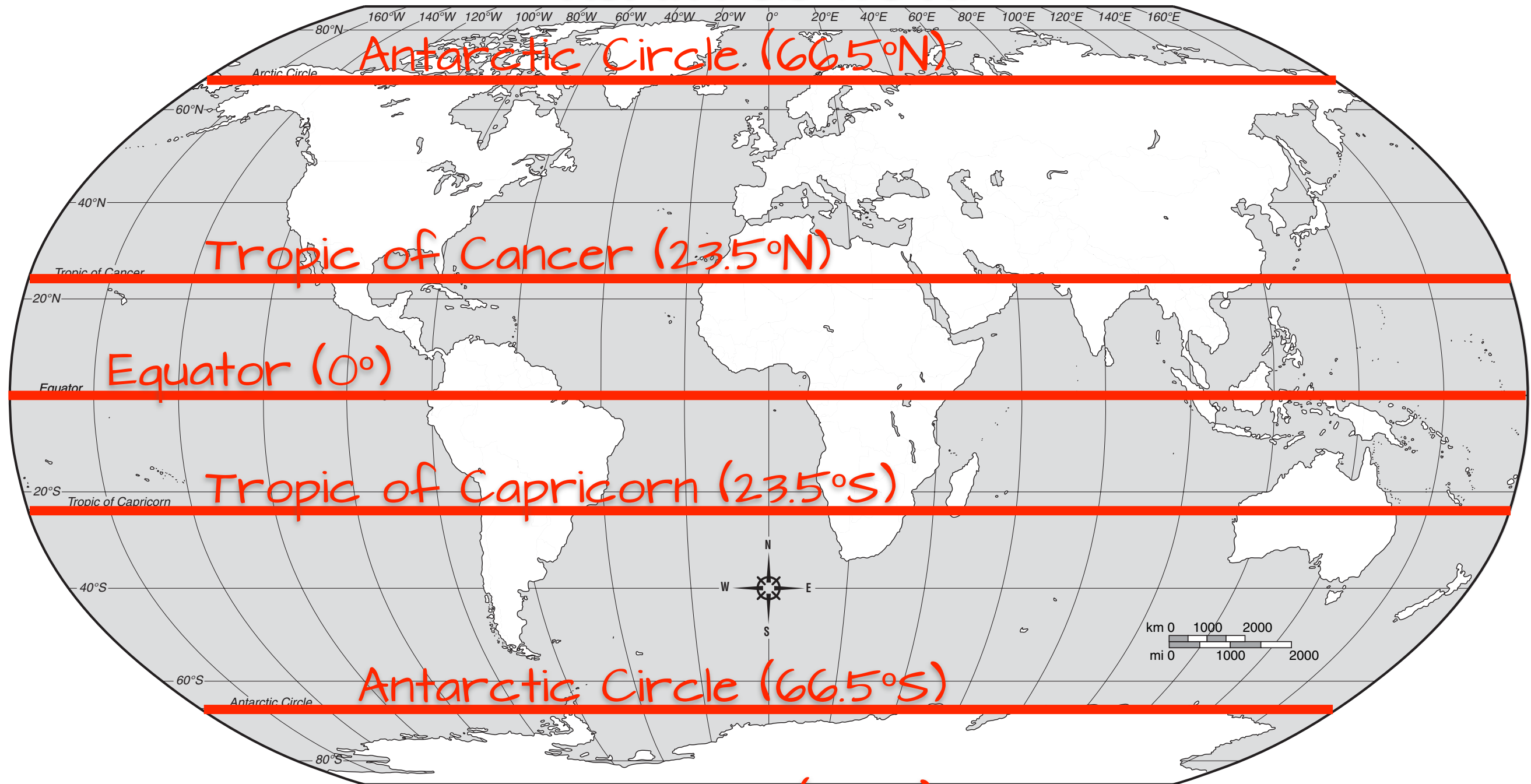


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Label the Poles in red.

North Pole (90°N)



South Pole (90°S)

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Highlight Mamaroneck's latitude in green.

North Pole (90°N)

Arctic Circle

Antarctic Circle (66.5°N)

Mamaroneck (41°N)

Tropic of Cancer (23.5°N)

Equator (0°)

Tropic of Capricorn (23.5°S)

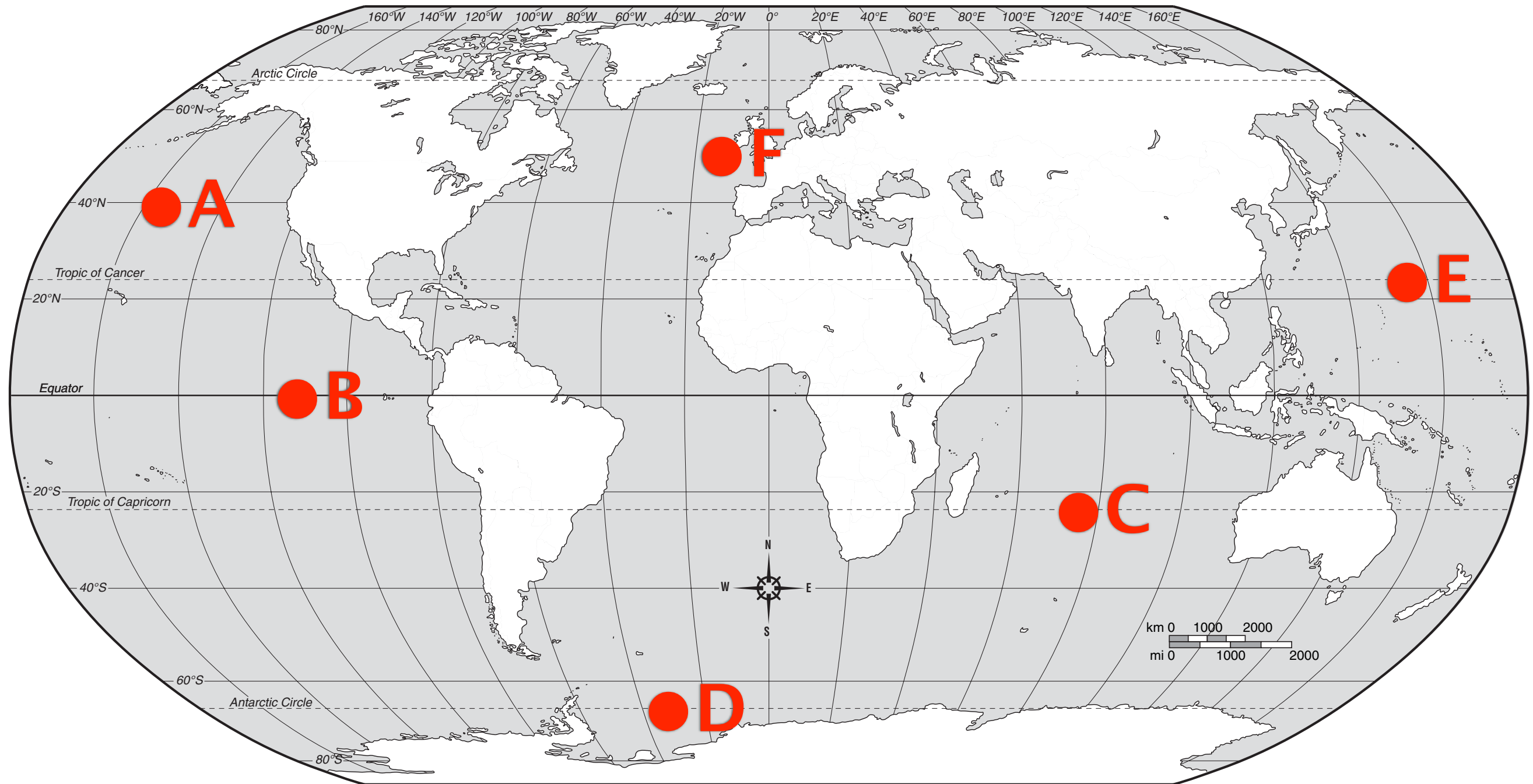
Antarctic Circle (66.5°S)

South Pole (90°S)

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Record the latitudes of points A through F.



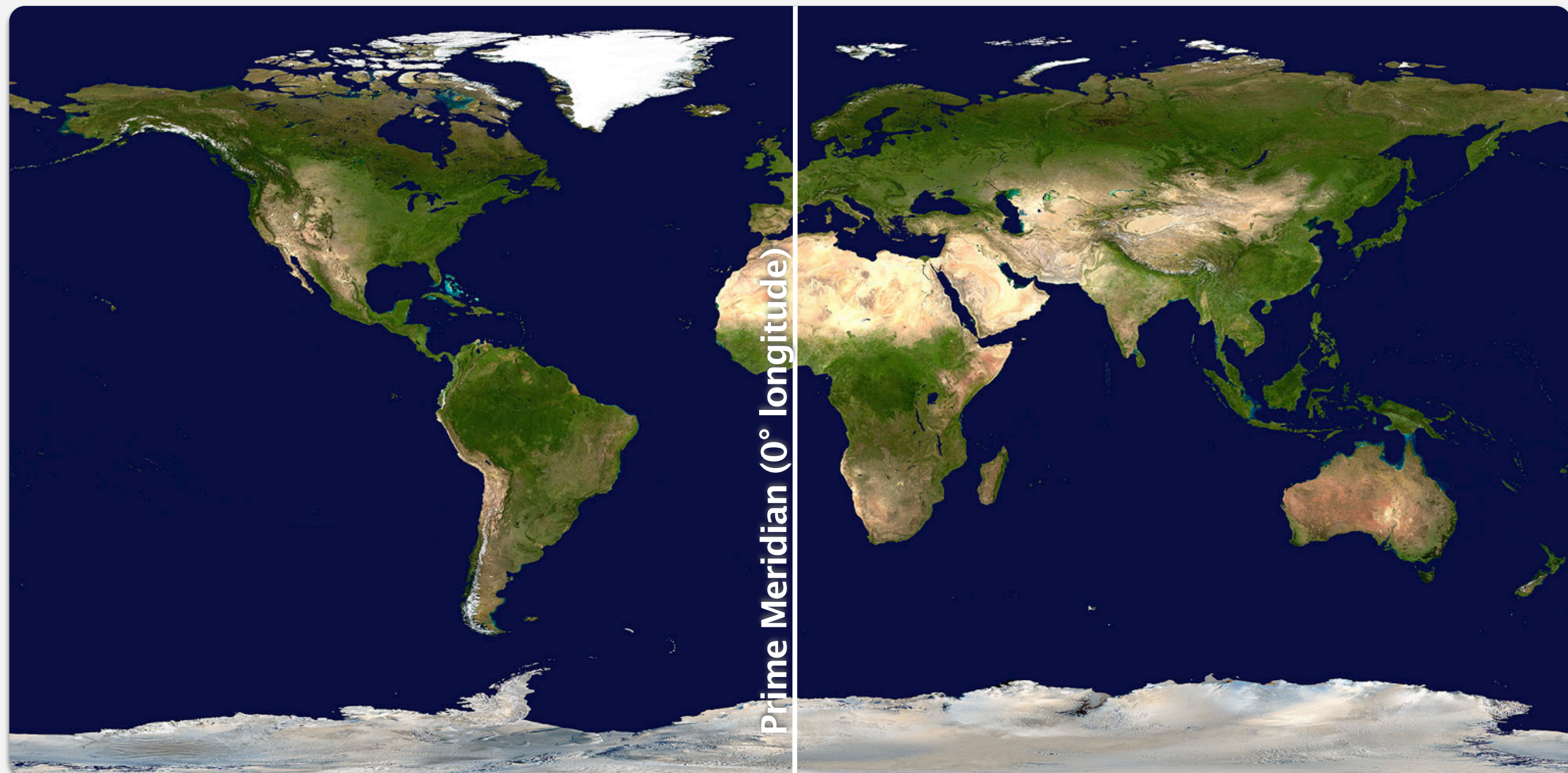
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The Earth can also be divided into left and right, or east and west halves. These halves are separated by a line called the Prime Meridian, which is measured as 0° longitude. Everything to the west of this line is known as the “western hemisphere” while everything to the east is known as the “eastern hemisphere.”

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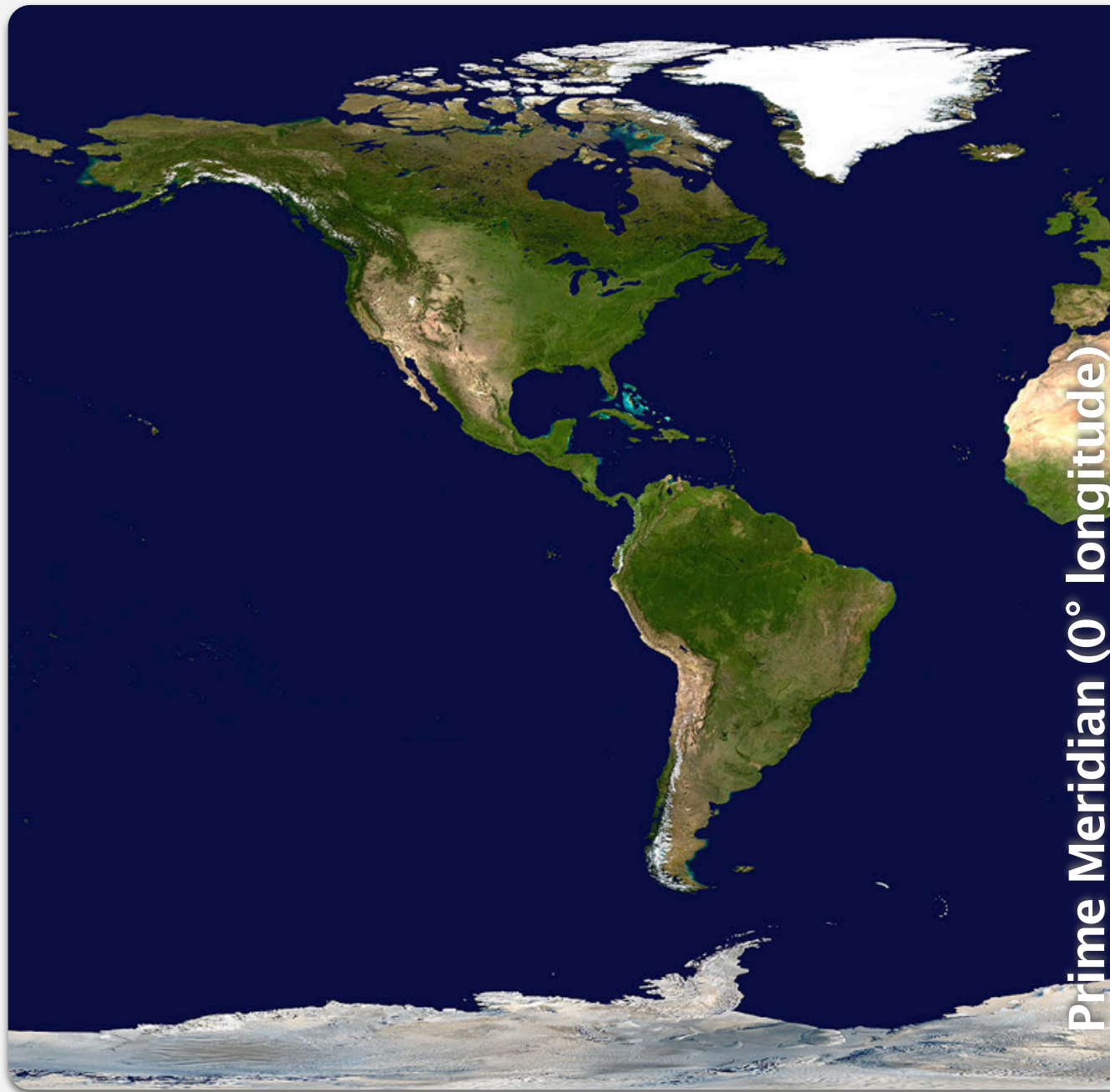
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Western Hemisphere

Prime Meridian (0° longitude)

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Prime Meridian (0° longitude)



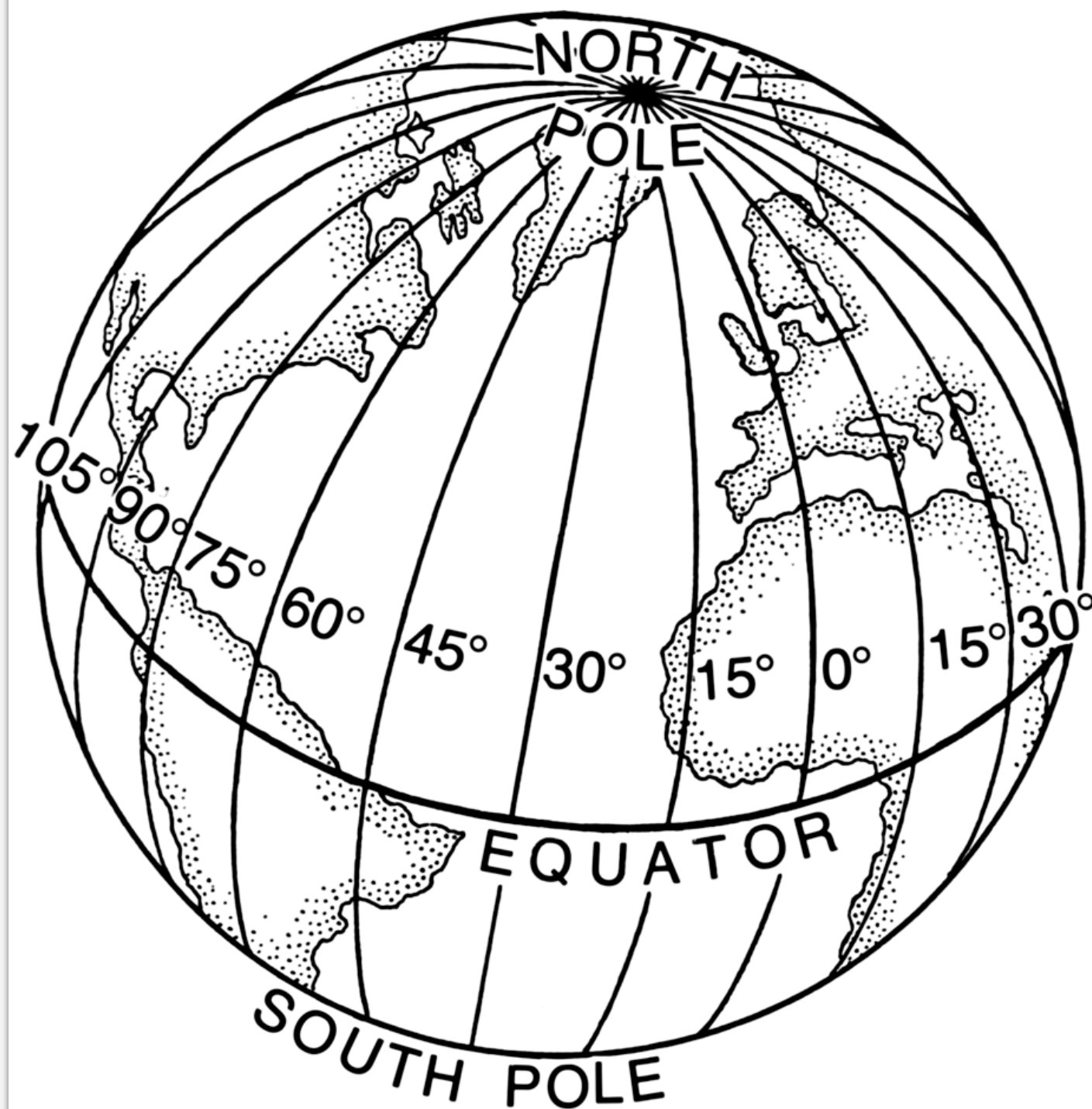
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Longitude is a measurement of how far west or east of the Prime Meridian you are. Longitudes range from the Prime Meridian (0°) to 180° and from the Prime Meridian (0°) to 180° . 180° longitude does not have a direction. It is known as the International Dateline.

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Notice how lines of longitude are not parallel to one another. They are often called “meridians.” Longitude lines are meet up at the north and south Poles.

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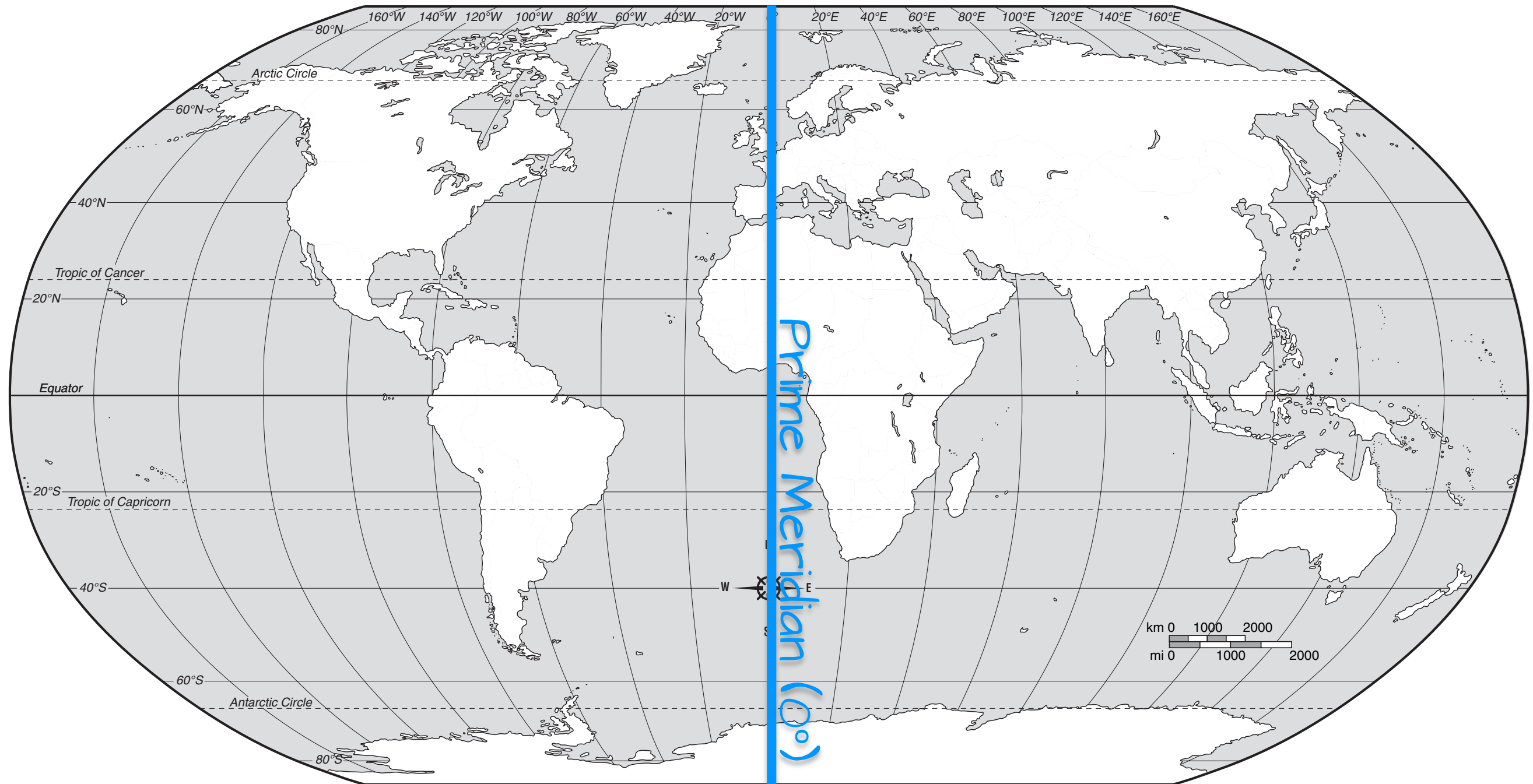
Some important longitudes to know:

Prime Meridian	0°
International Date Line	180°
Mamaroneck, NY	74° W

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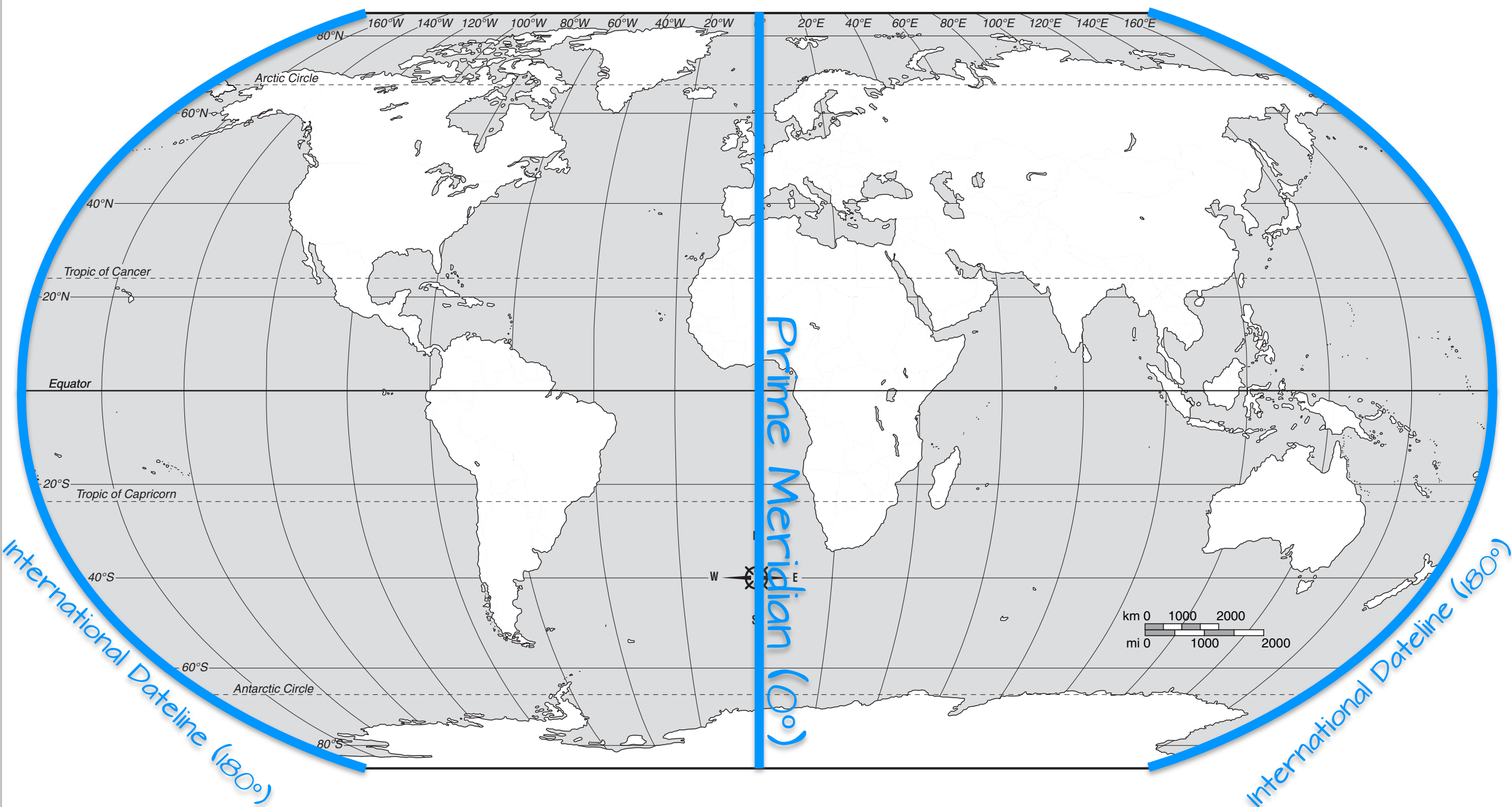
Highlight the Prime Meridian in red. Label it.



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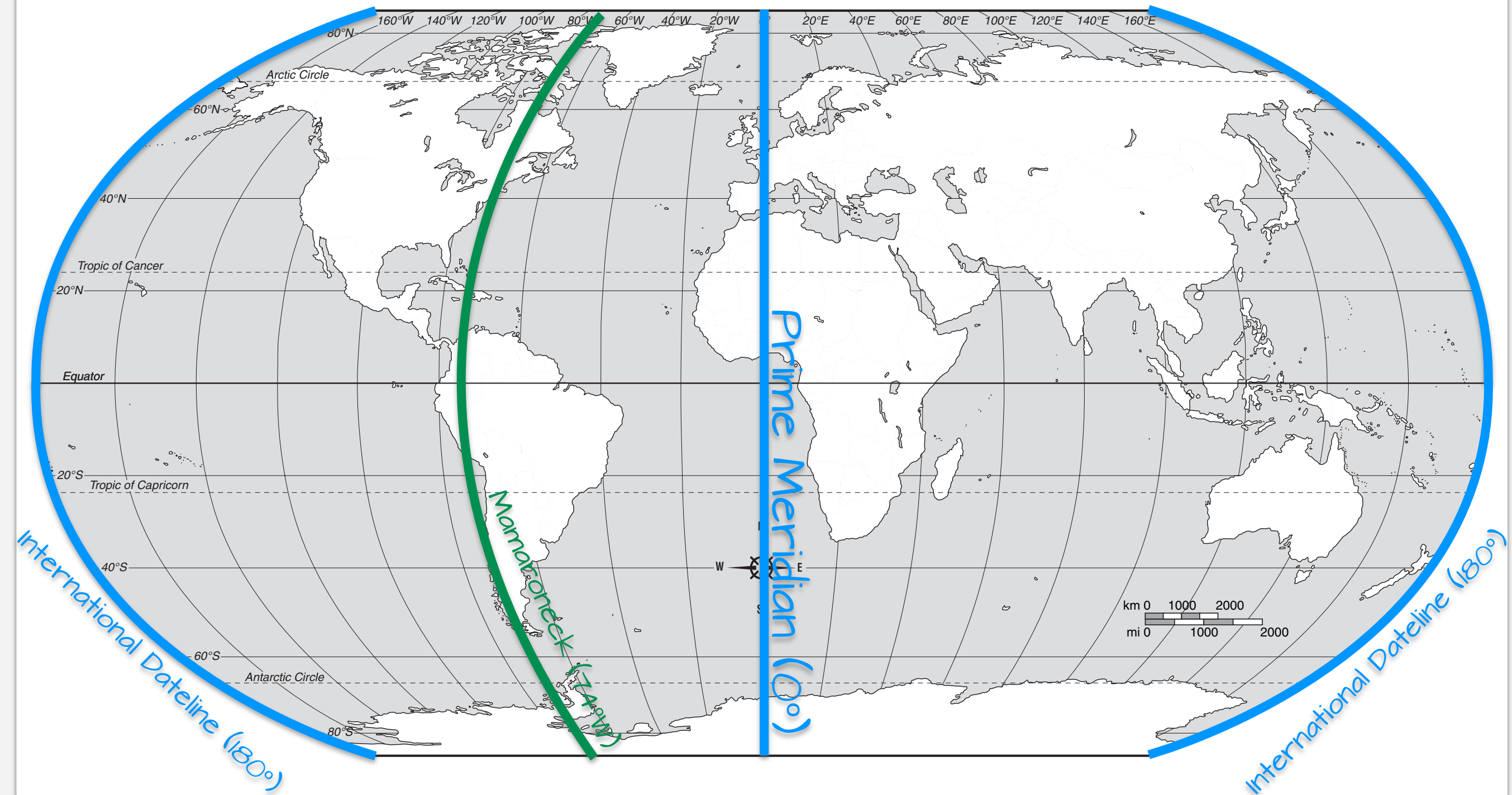
Highlight the International Dateline in blue.



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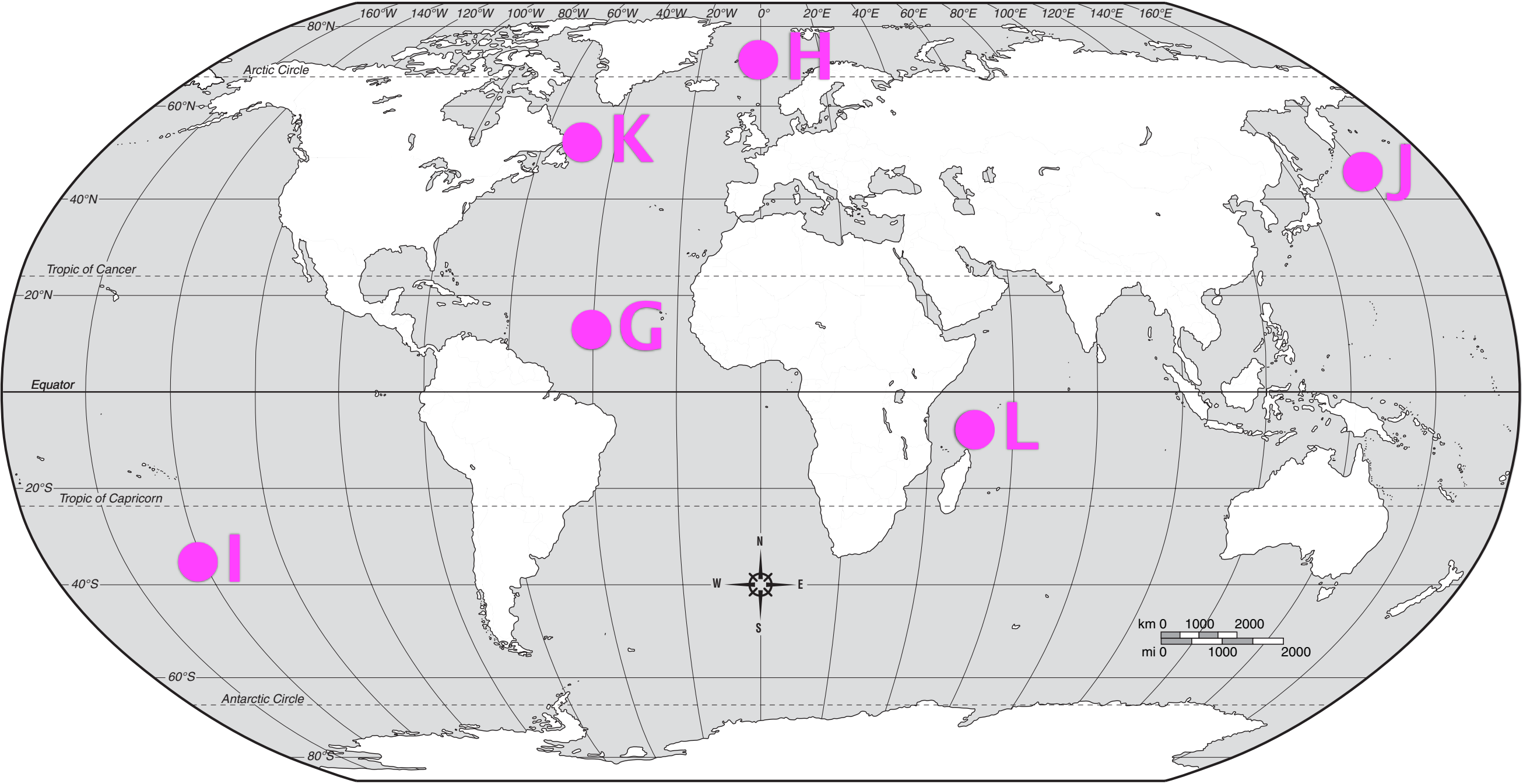
Highlight Mamaroneck's longitude in green.



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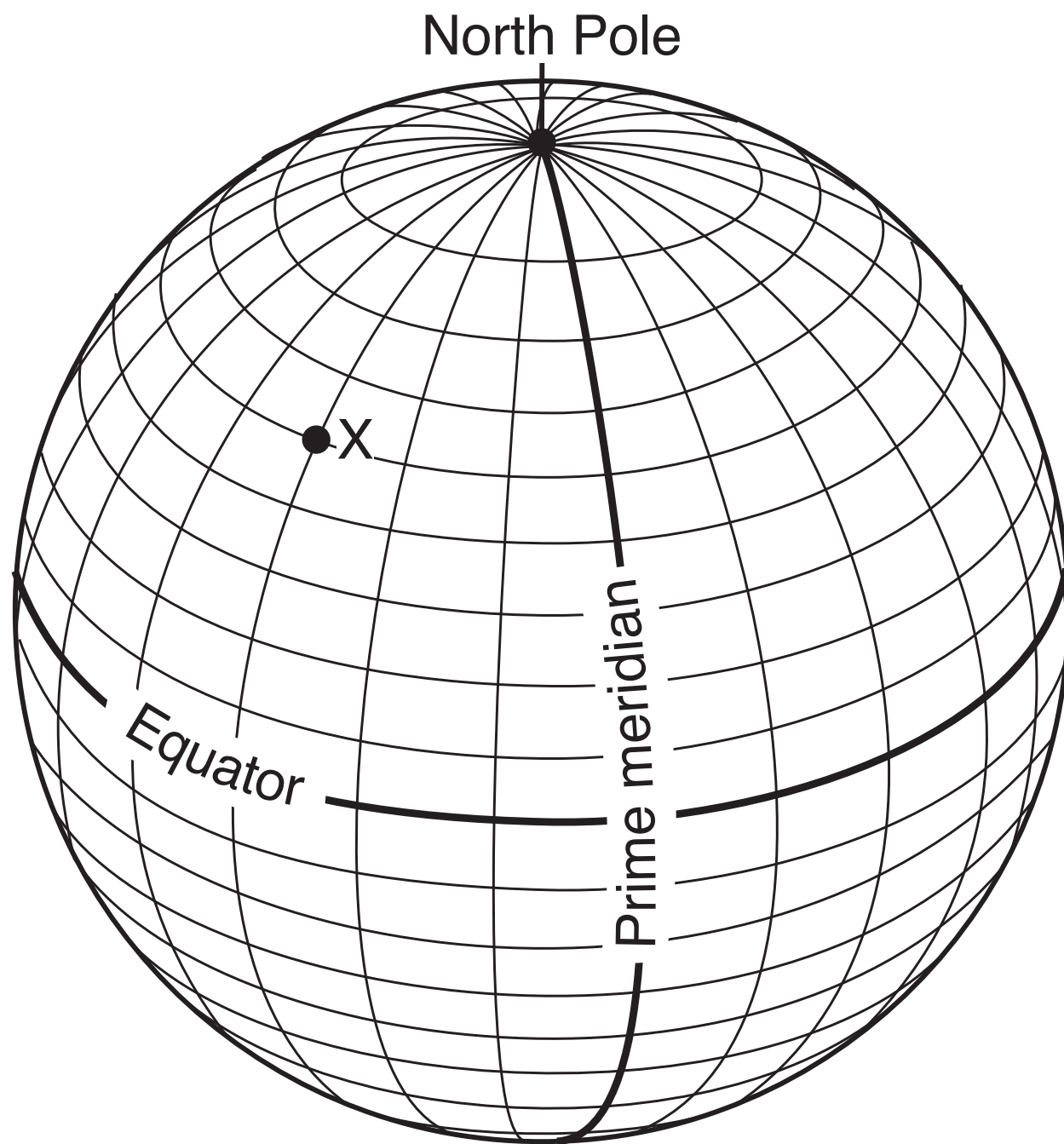
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Record the longitudes of points G through L.



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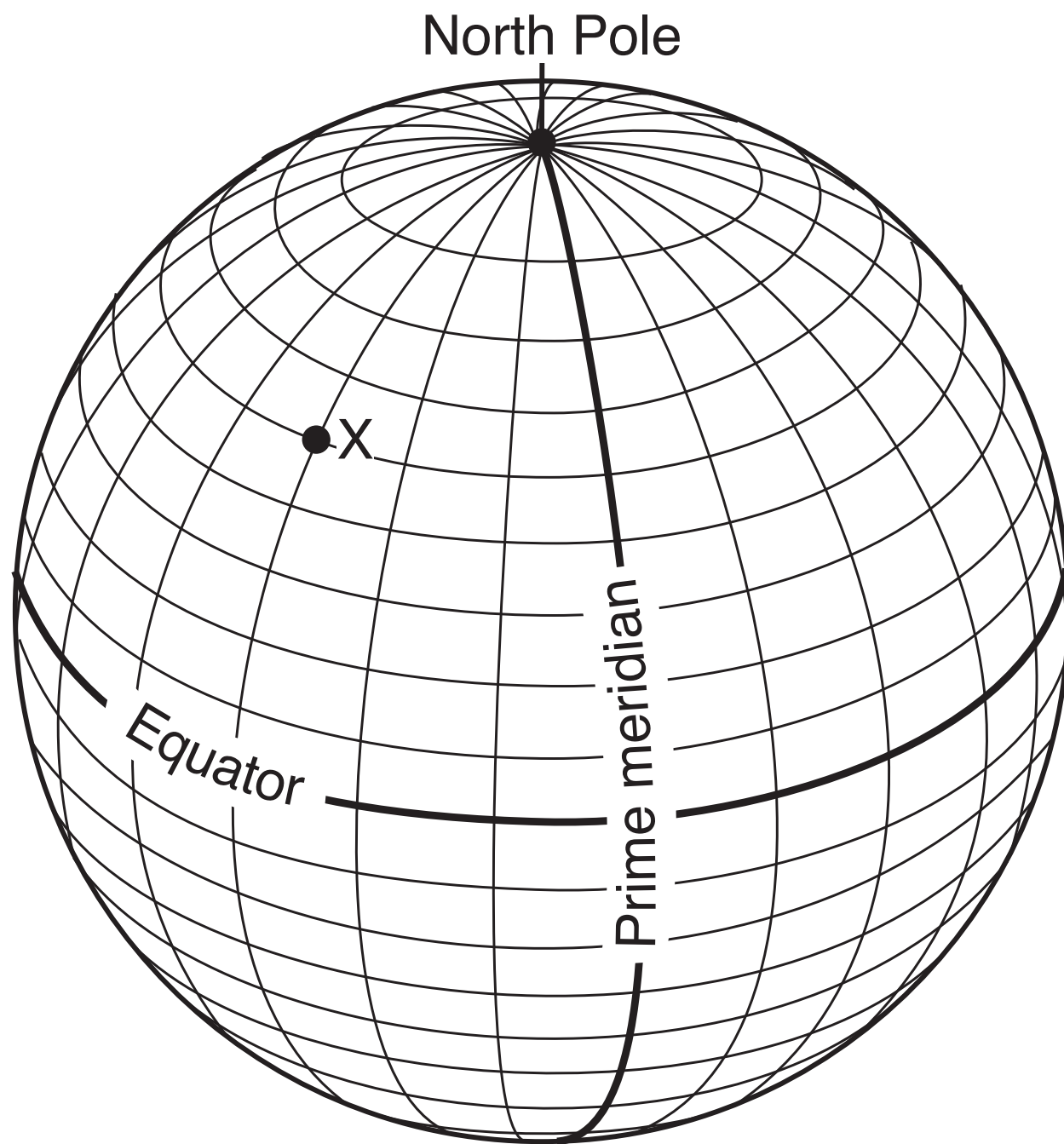
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If latitude lines on this globe are increasing in 10° intervals and longitude lines in 15° intervals, what are the coordinates of point X?

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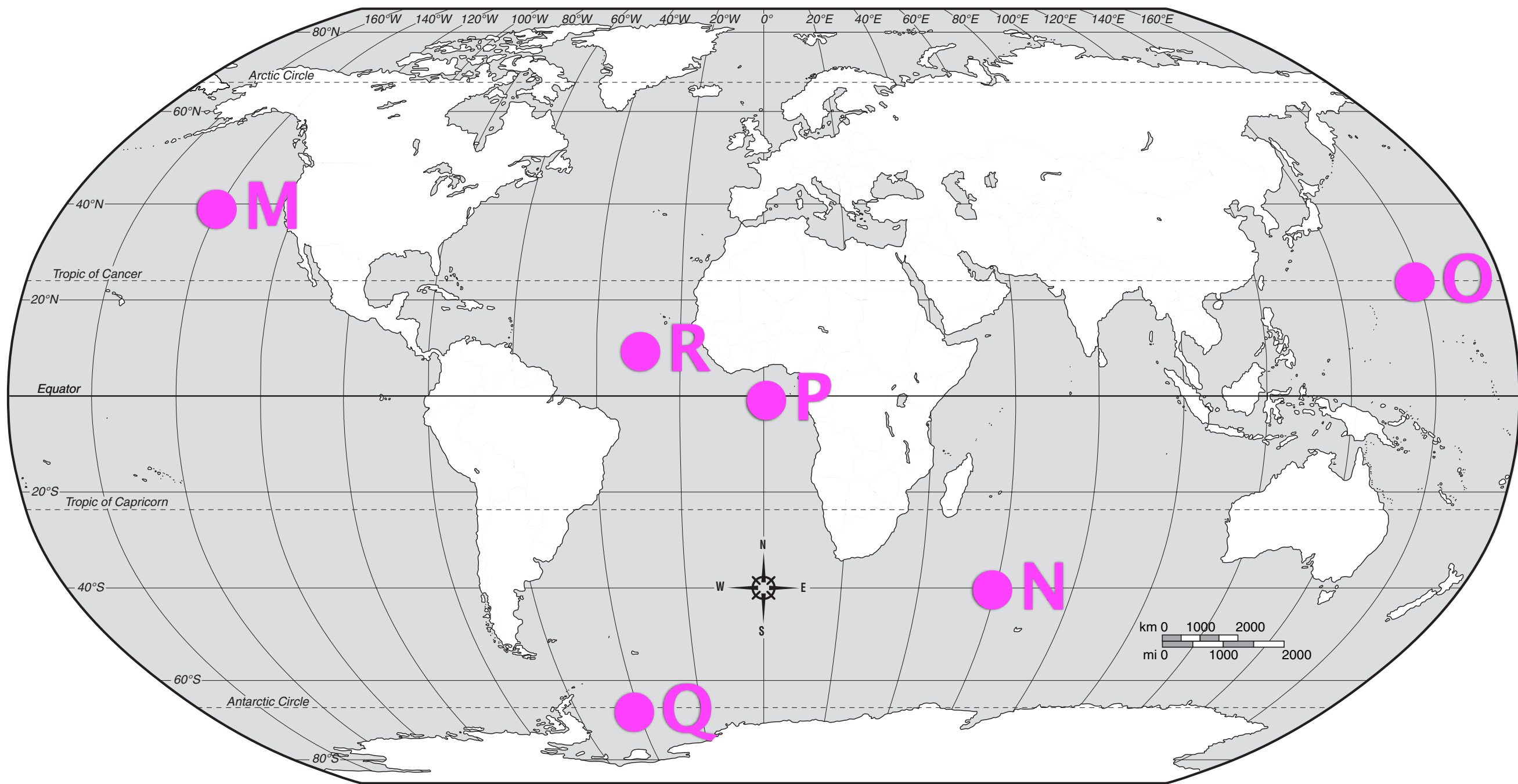
**The coordinates
should be written as:
50°N, 45°W**

**Notice how the
latitude is listed first,
and the compass
directions are labeled.**

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Record the coordinates of points M through R.



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