TITANIC

19

12

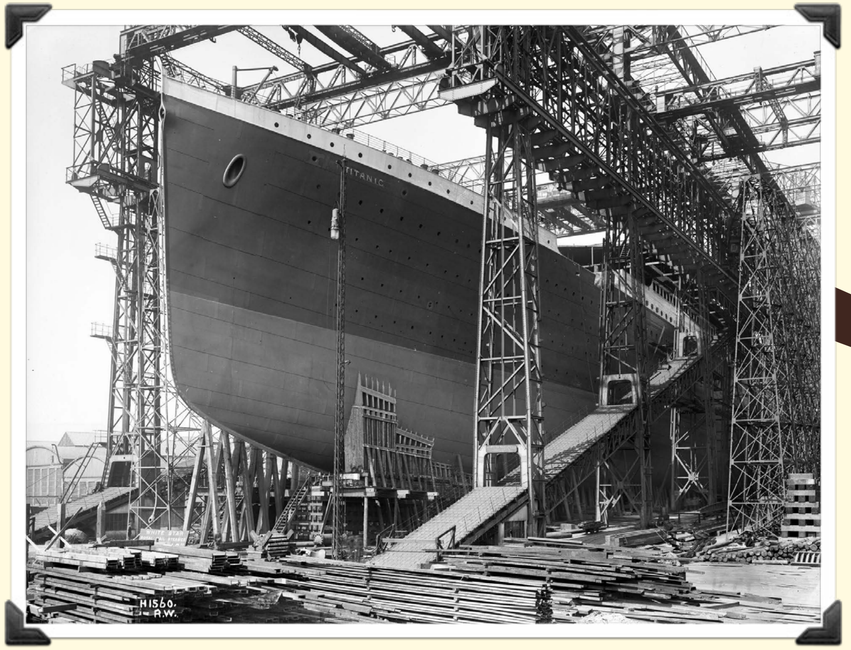
Learning Objective:

To use latitude and longitude co-ordinates to locate important places in the Titanic's journey.

How many important locations can you think of that are to do with the Titanic? How are they linked to the famous ship?

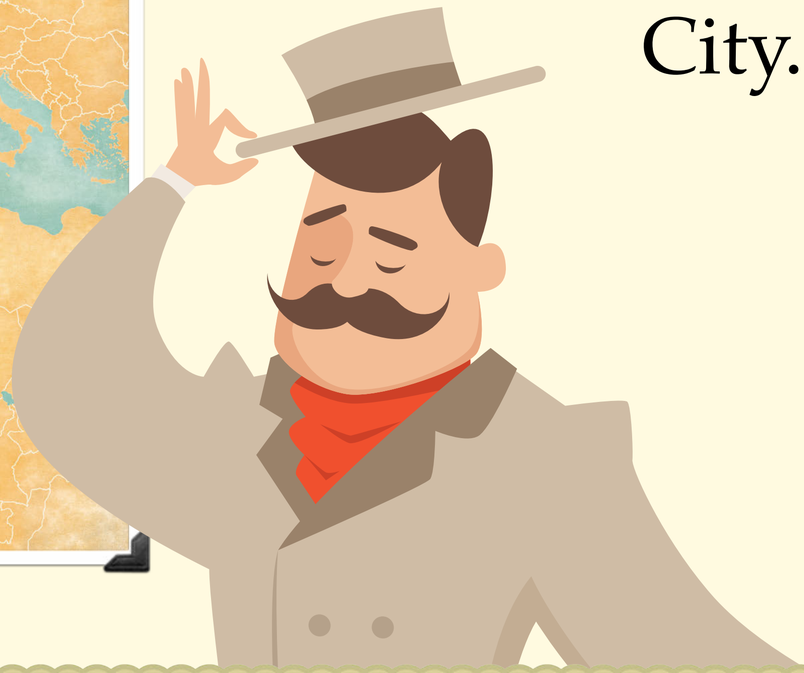
Where was she built?

The Titanic was built in Belfast, Ireland in the Harland and Wolff shipyard.



Where was she headed?

The Titanic then headed West across the Atlantic Ocean towards New York City.



Messages

The Titanic's distress calls were picked up by the land-based wireless station at Cape Race.

Did you come up with any others?

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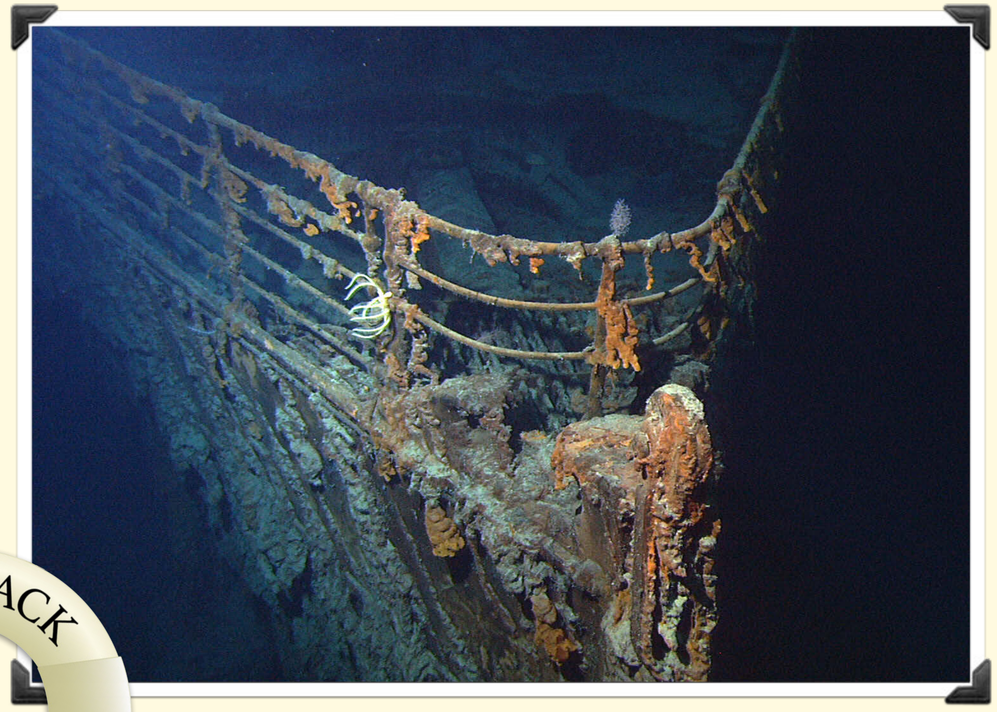
These are the co-ordinates for the location of Titanic's wreck site.

41°N 49°W



Do you know how these co-ordinates refer to a location?

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Co-ordinates work by making a grid. The invisible grid that covers our planet is made from lines of **latitude** and **longitude**.

These lines split up the planet into degrees (°).

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Latitudinal lines run horizontally around the planet.

Can you think of an important line of latitude?

The equator is the most important line of latitude. This horizontal line runs around the widest part of the planet. The equator's latitudinal co-ordinate is 0°. From this line, other latitudinal lines are measured in degrees north or south. Each degree is equal to around 69 miles.

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So, the red arrow has a latitudinal co-ordinate of 15°N. What latitudinal co-ordinate does the blue arrow have?

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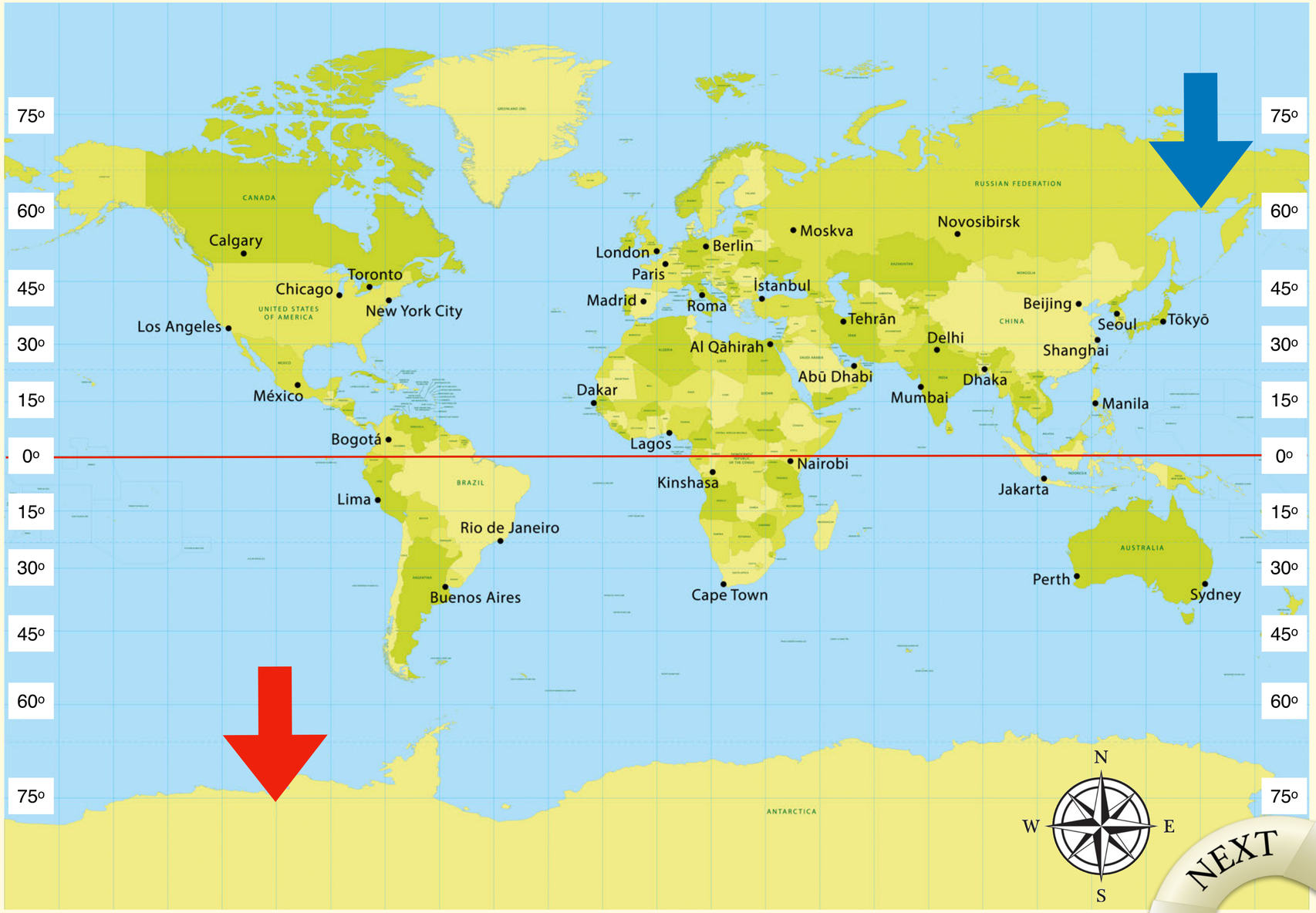
Did you get 60°N? Remember, you need to put the direction into the co-ordinate as well. What would the red arrow's latitudinal co-ordinate be now?



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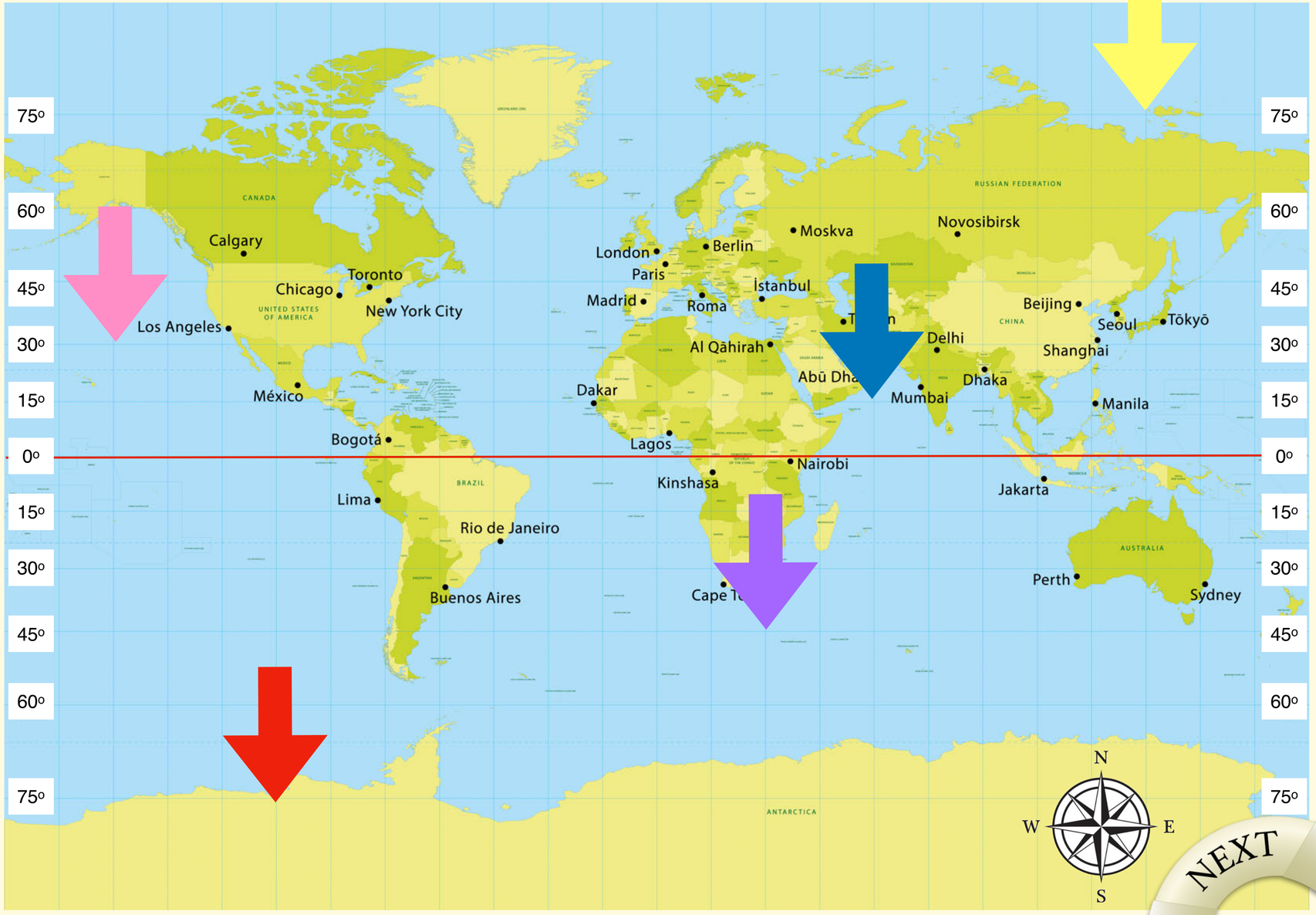
Did you get 75°S? Well done if you did! What are the latitudinal co-ordinates of the other arrows?



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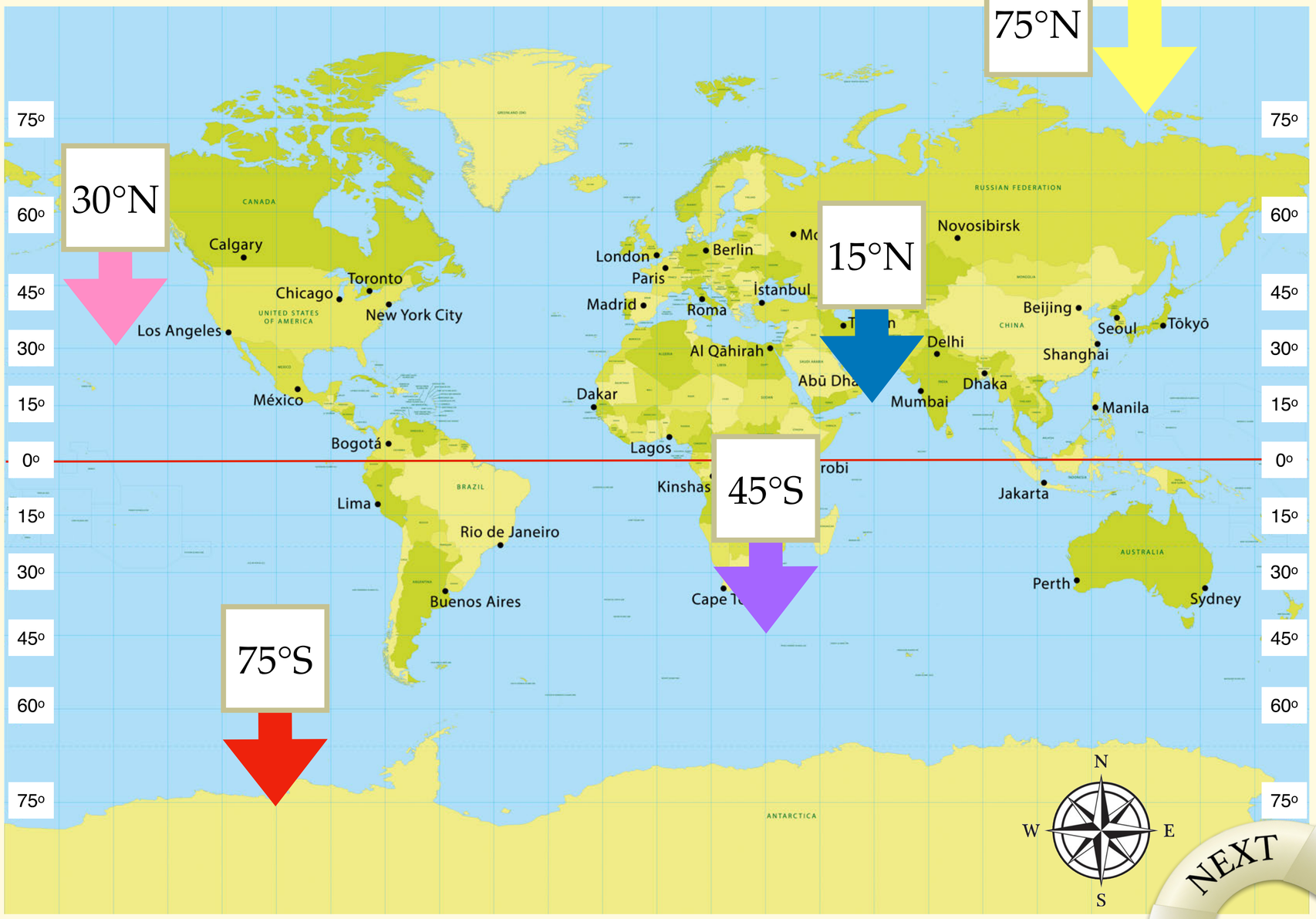
Did you get them right?
Do you remember what the vertical lines on the grid were called?
Where do you think the most important vertical line is?



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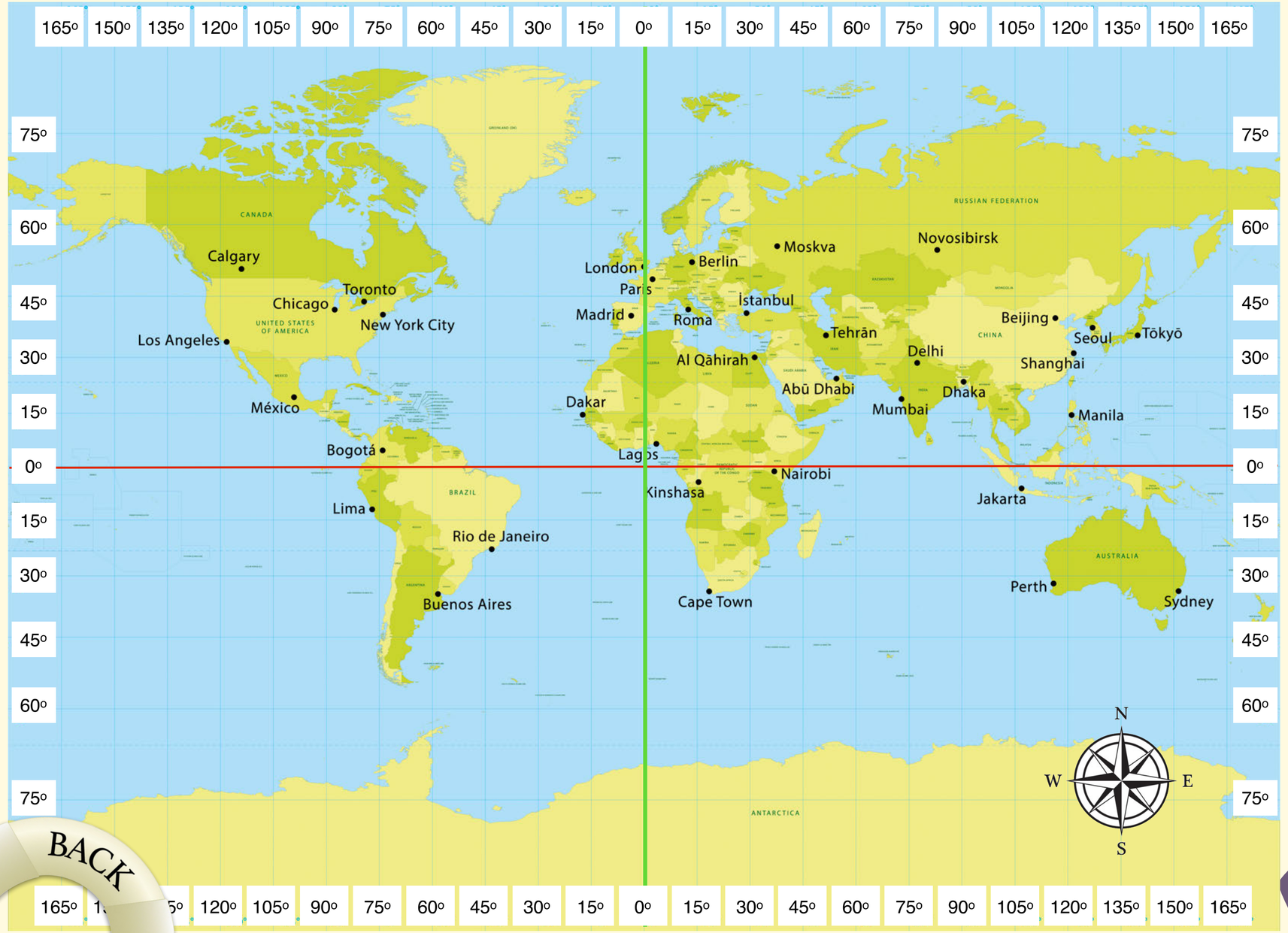

Unlike the equator, there isn't an obvious line to mark as 0° longitude. So, in 1884 it was decided that it would run through Greenwich, England.

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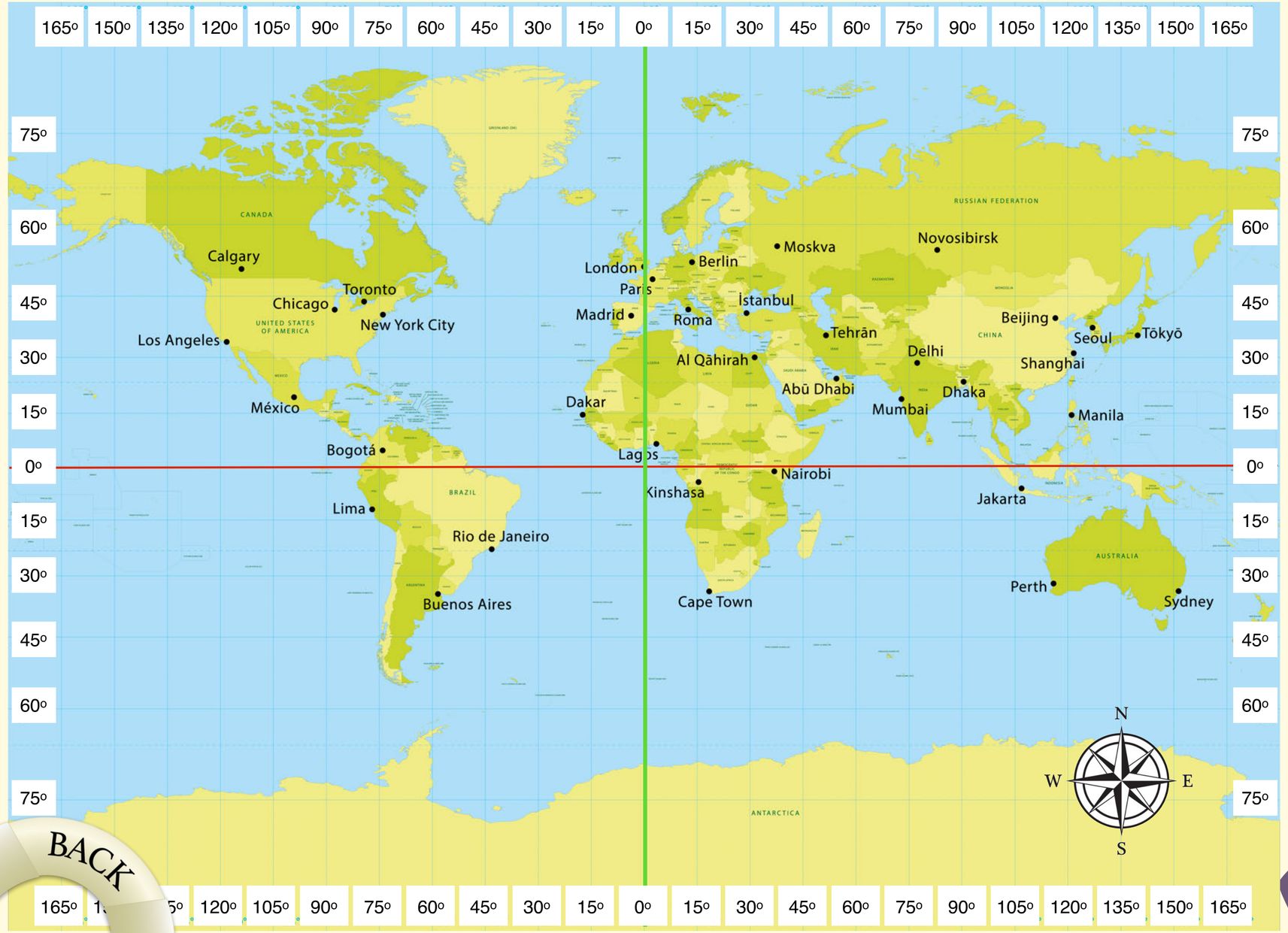

Other lines of longitude are measured in degrees east or west of this line.

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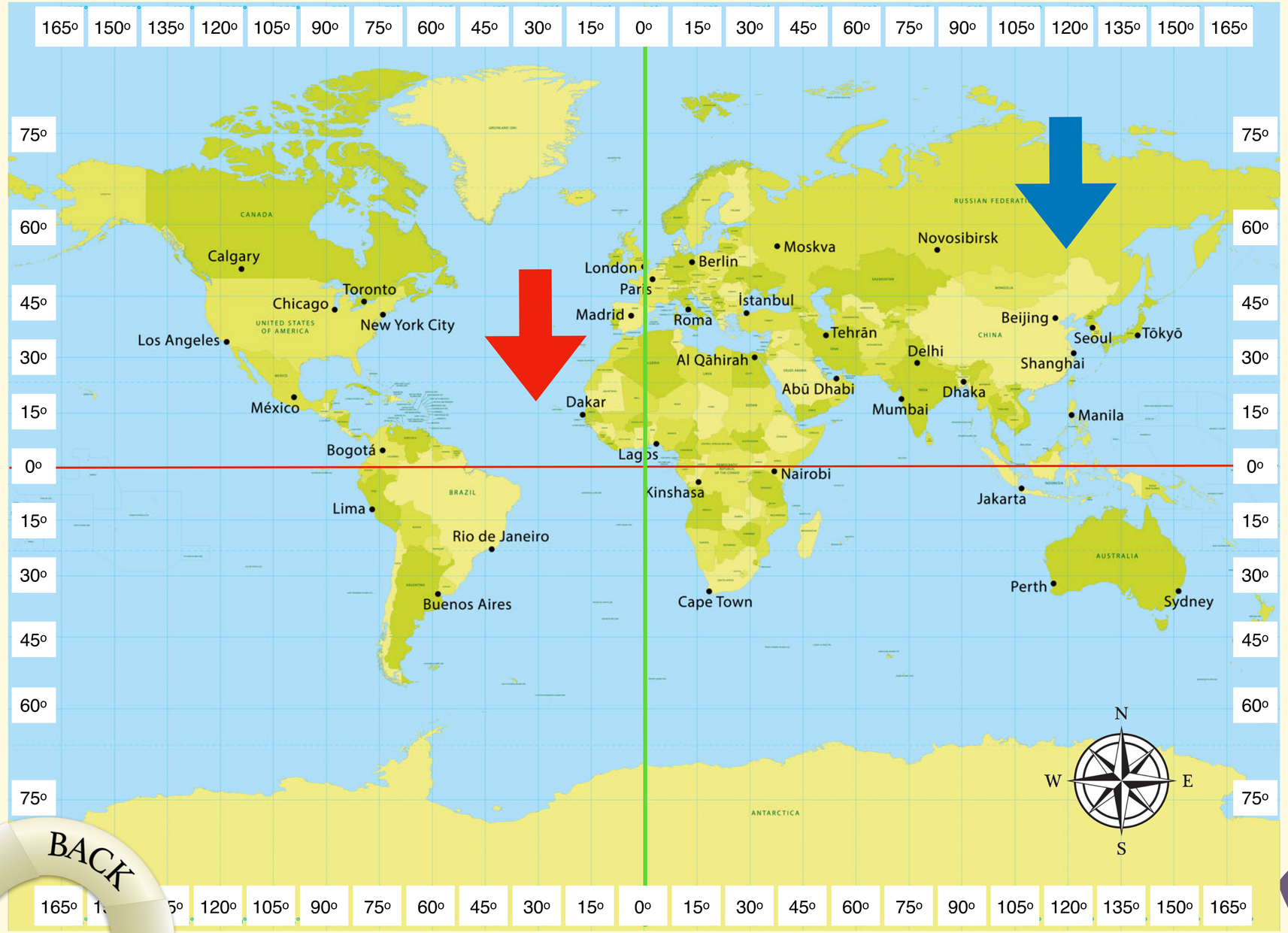

The red arrow has a longitudinal co-ordinate of 30°W. What is the blue arrow's longitudinal co-ordinate?

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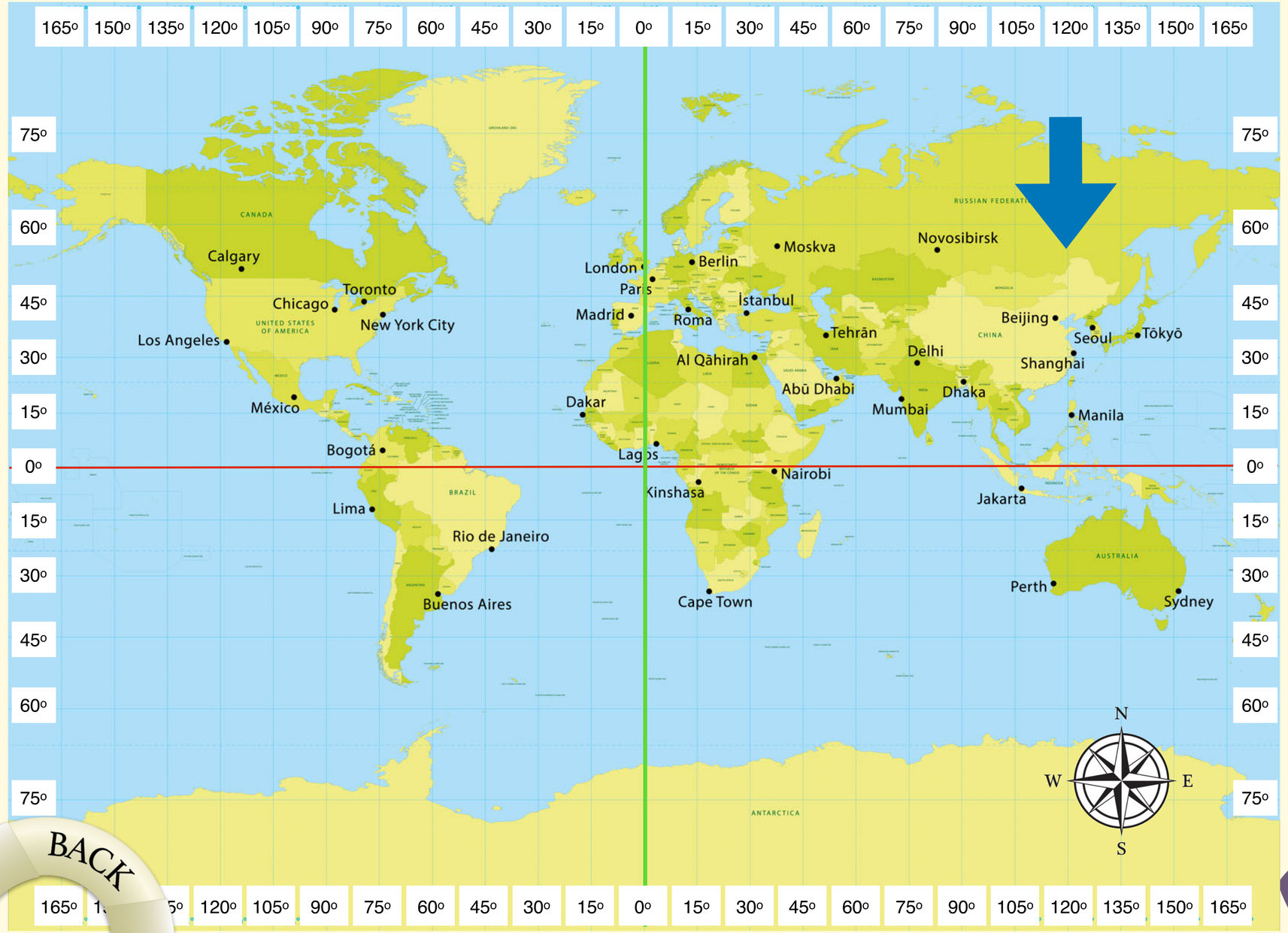

Did you get 120°E?
Well done!
See if you can find the longitudinal co-ordinates of the arrows on the next slide.

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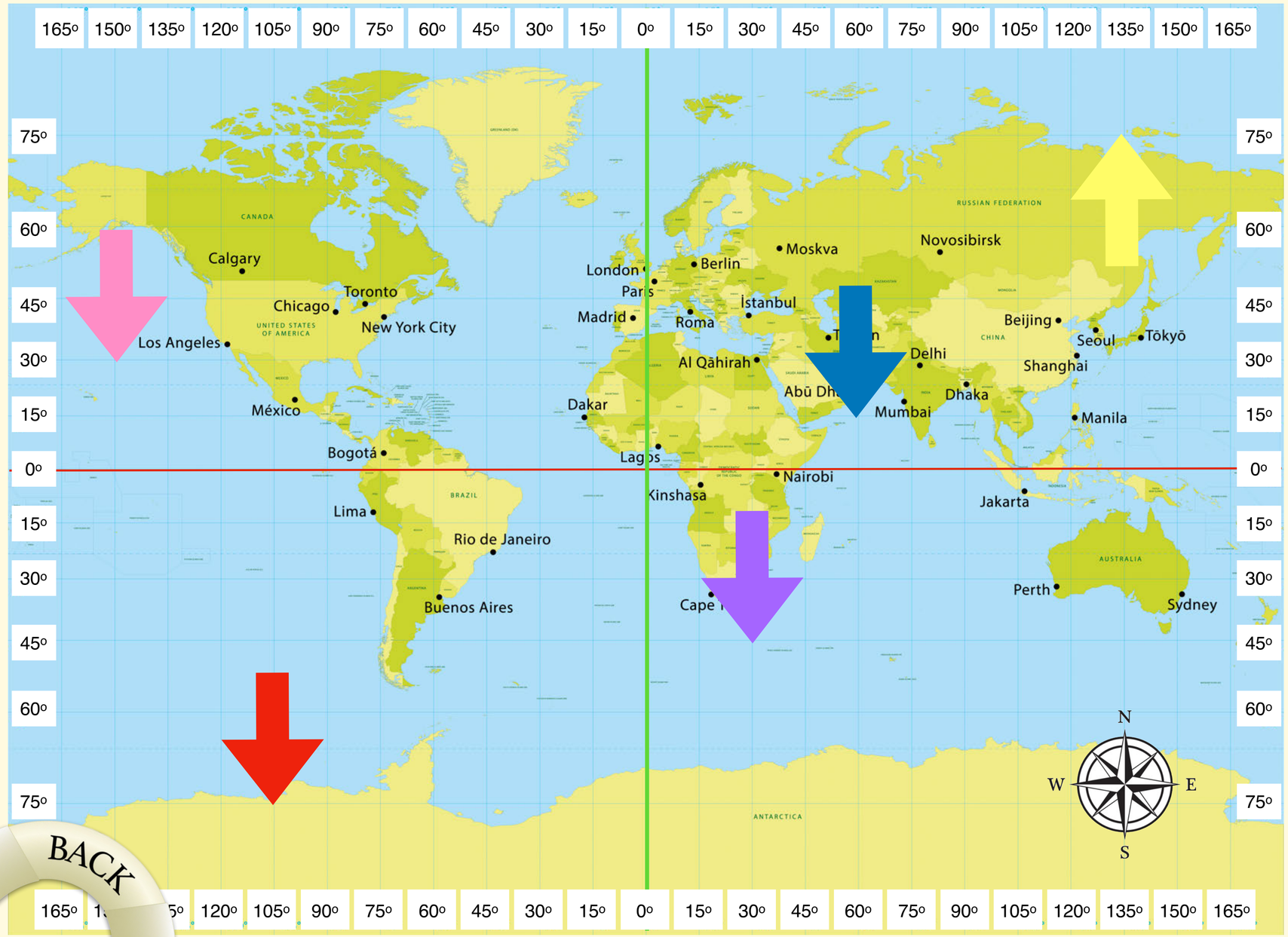
165º 150º 135º 120º 105º 90º 75º 60º 45º 30º 15º 0º 15º 30º 45º 60º 75º 90º 105º 120º 135º 150º 165º
75º
60º
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CANADA
UNITED STATES OF AMERICA
MEXICO
BRAZIL
ARGENTINA
RUSSIAN FEDERATION
CHINA
INDIA
SAUDI ARABIA
LIBYA
SUDAN
DEMOCRATIC REPUBLIC OF THE CONGO
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Berlin
Moskva
İstanbul
Roma
Al Qāhirah
Dakar
Lagos
Kinshasa
Nairobi
Cape
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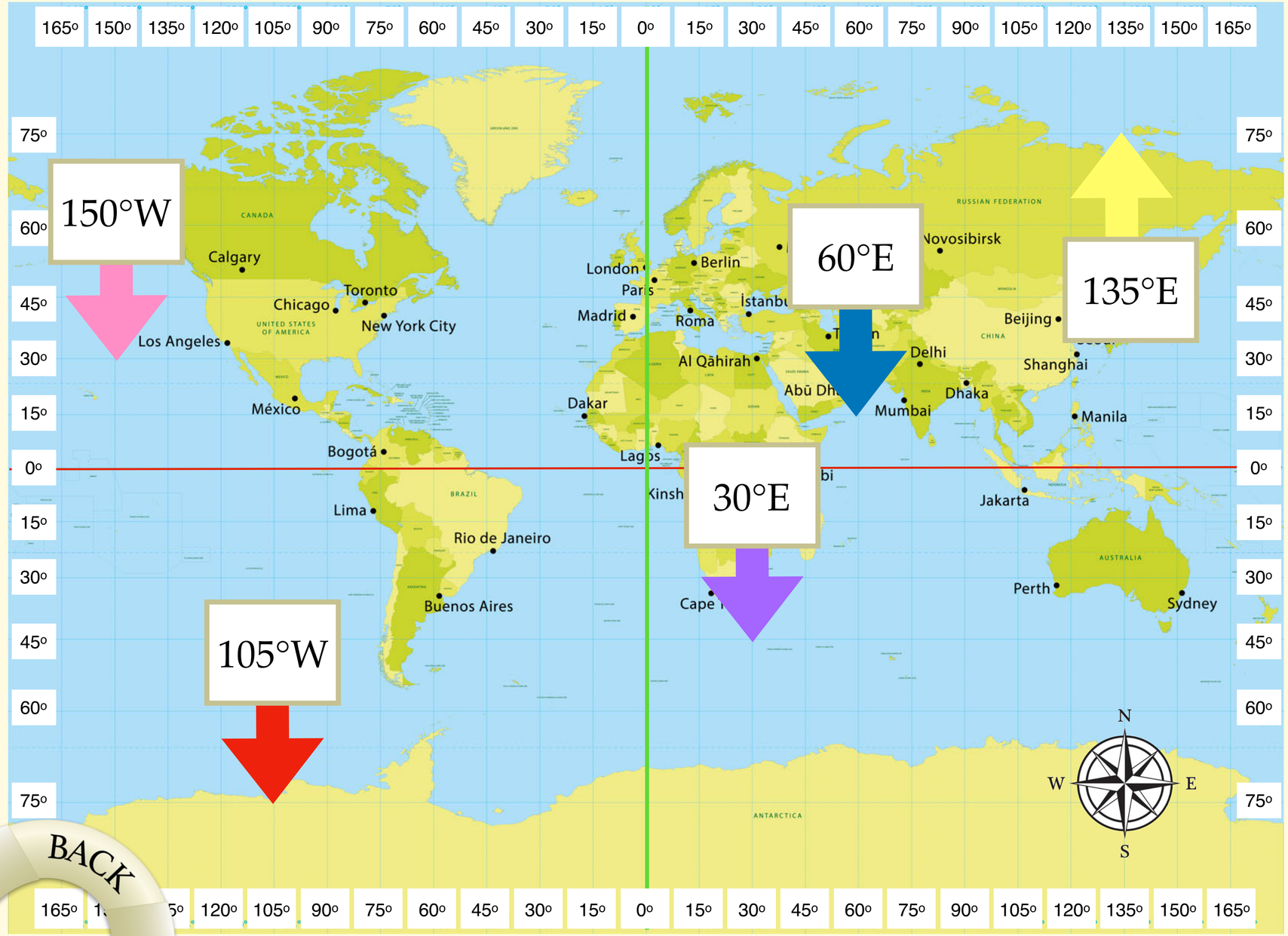

How did you get on? Are you ready to put the latitude and longitude co-ordinates together?

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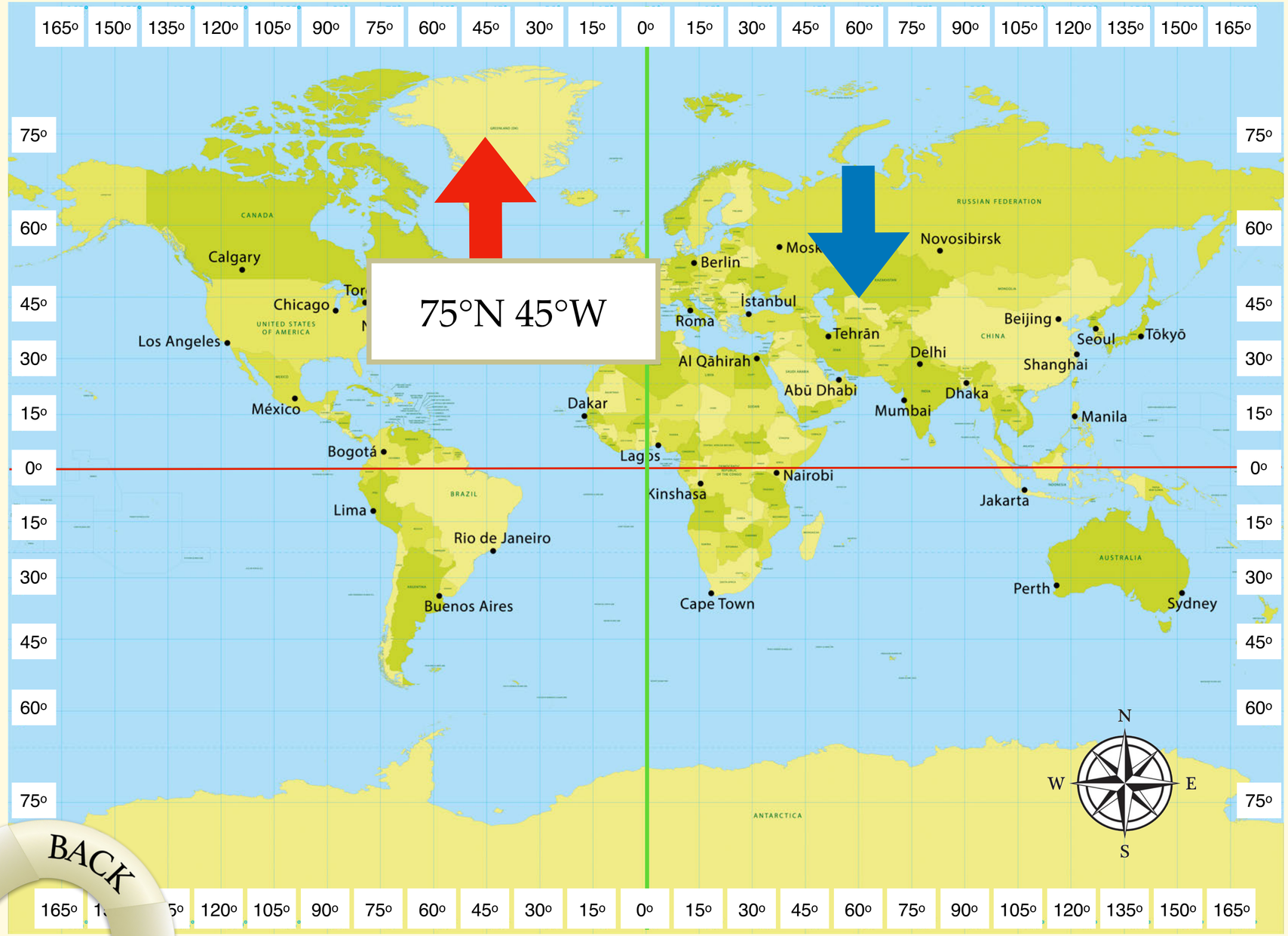

When writing a set of co-ordinates, the latitude (N/S) comes first, then the longitude (E/W). What are the full co-ordinates for the blue arrow?

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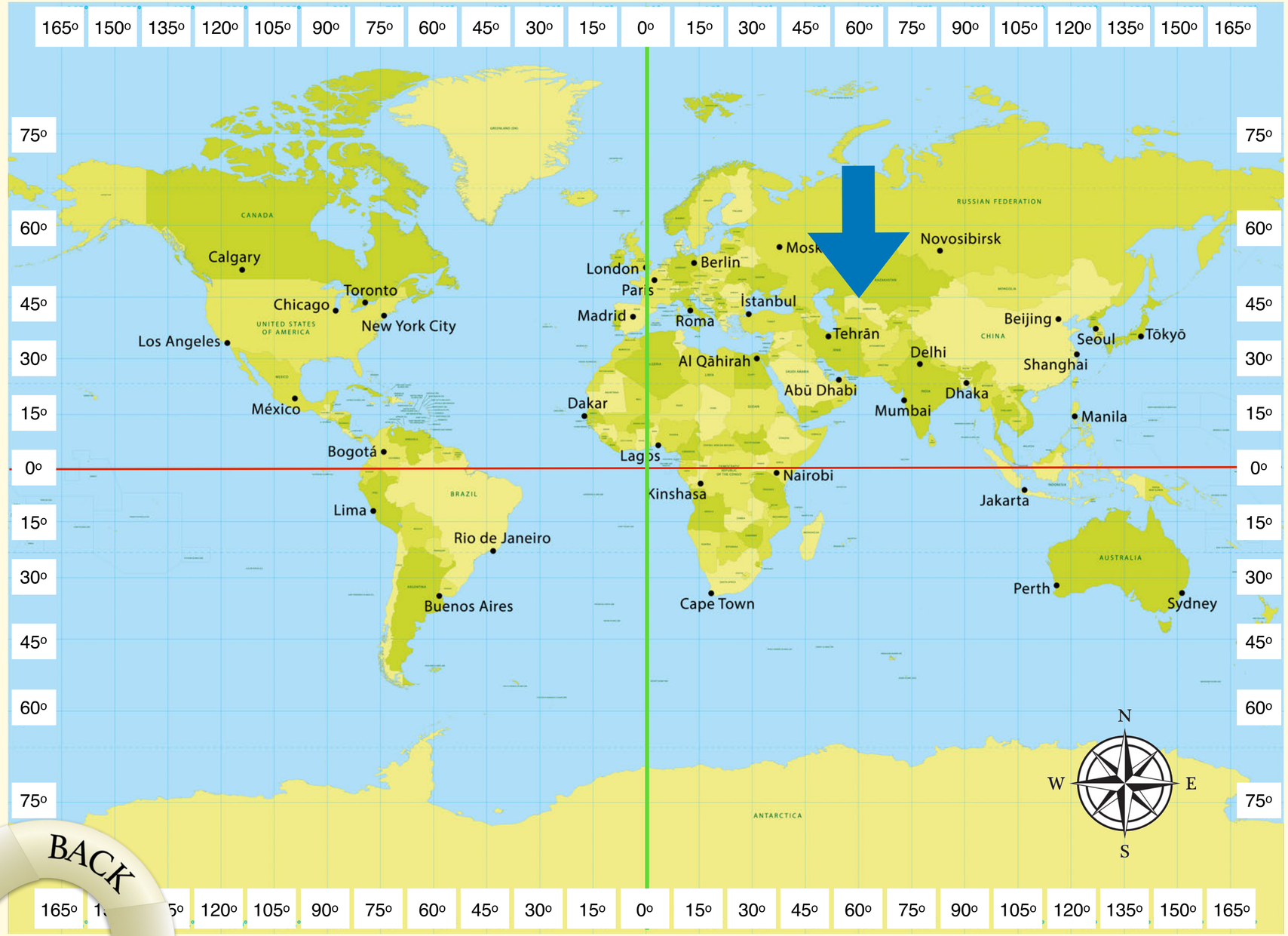

Did you get 45°N 60°E? Well done.

Which continent would 75°S 105°E be in?

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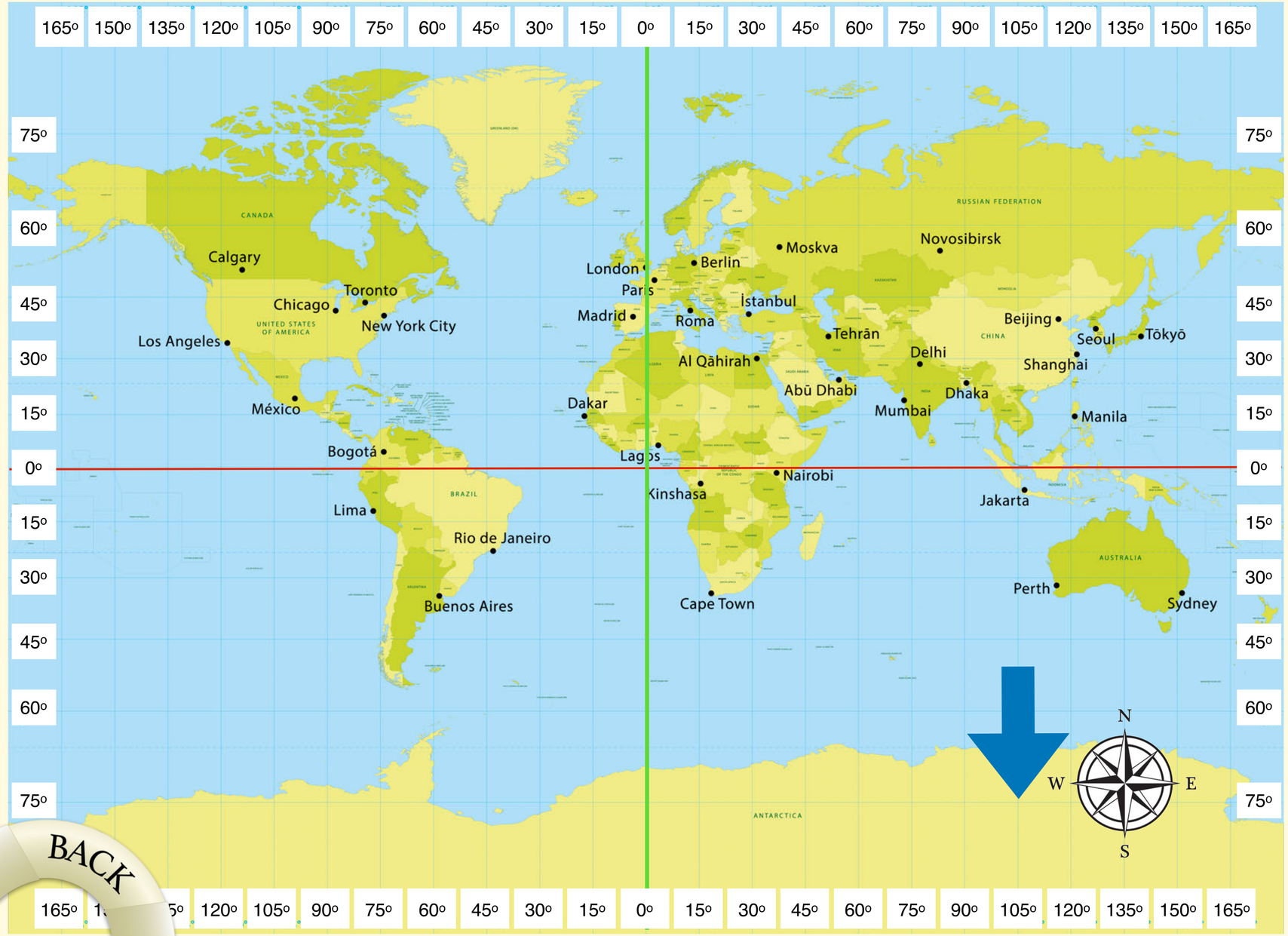

75°S 105°E would be in Antarctica.

Which continent would 15°S 60°W be in?

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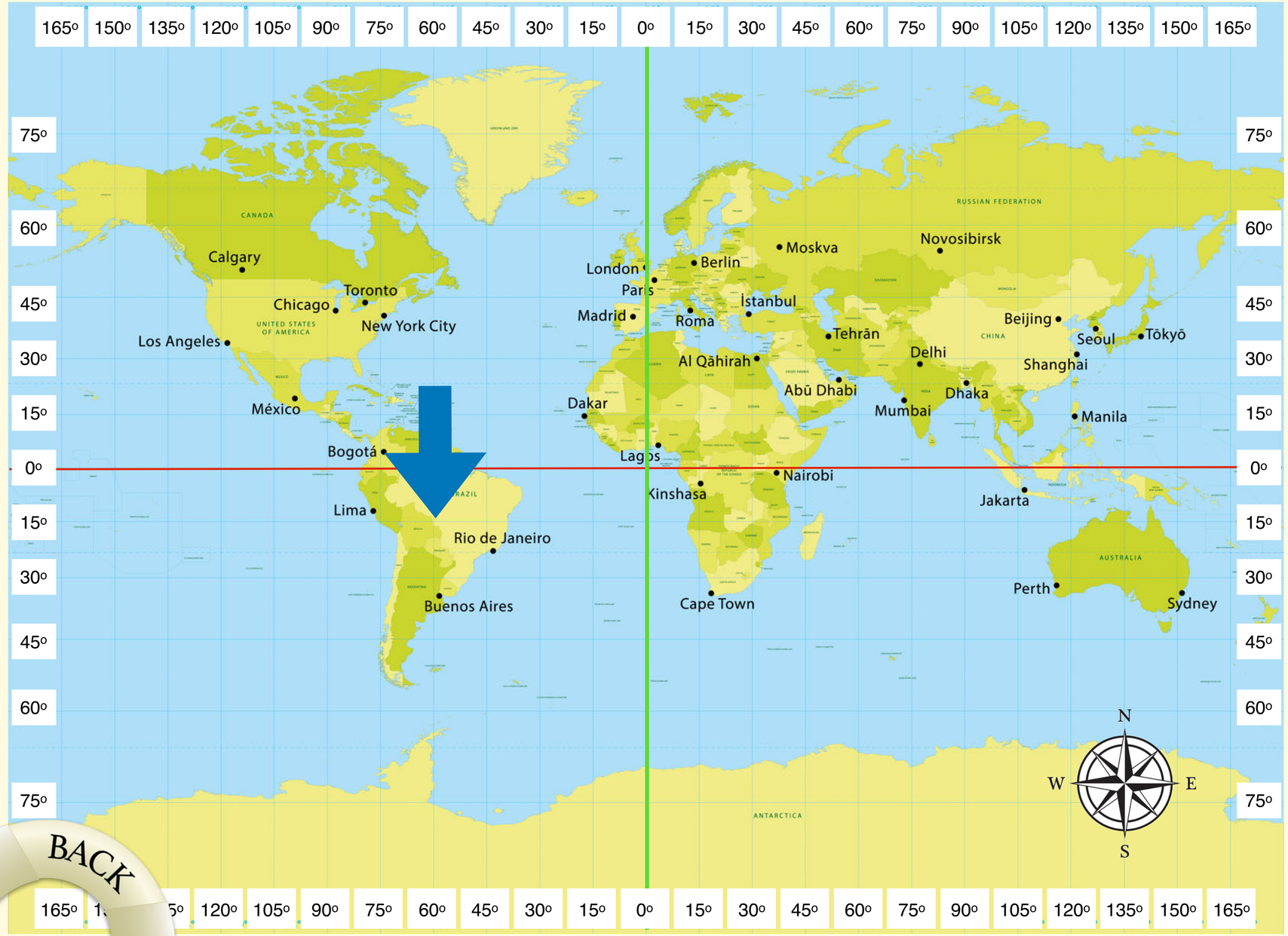

15°S 60°W is in South America. Can you find a set of co-ordinates that would be in Australia? Have a partner check your answer.

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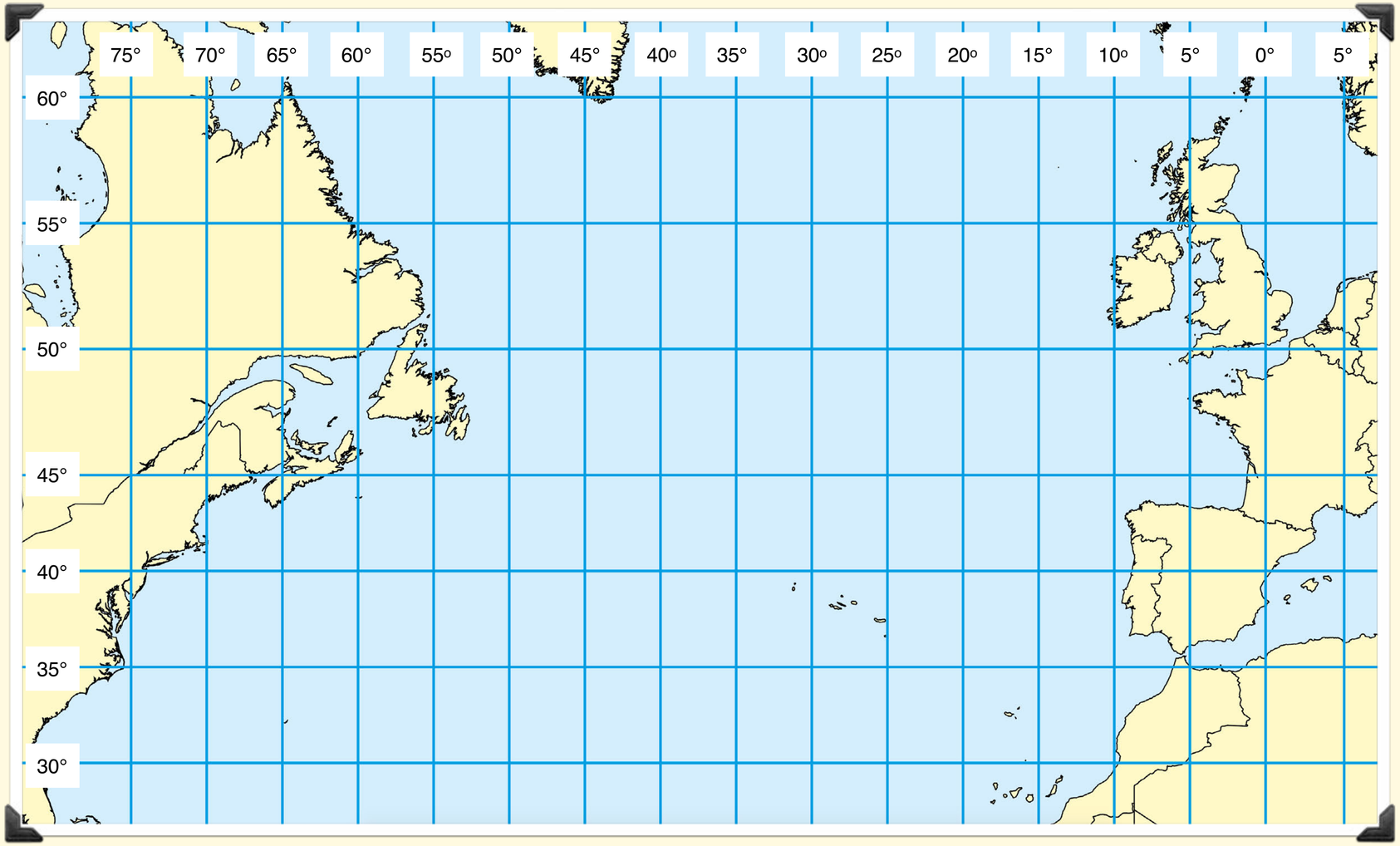

The more specific you want the location to be, the more accurate your co-ordinates need to be. You can use decimals in the co-ordinates if you want to be really accurate.

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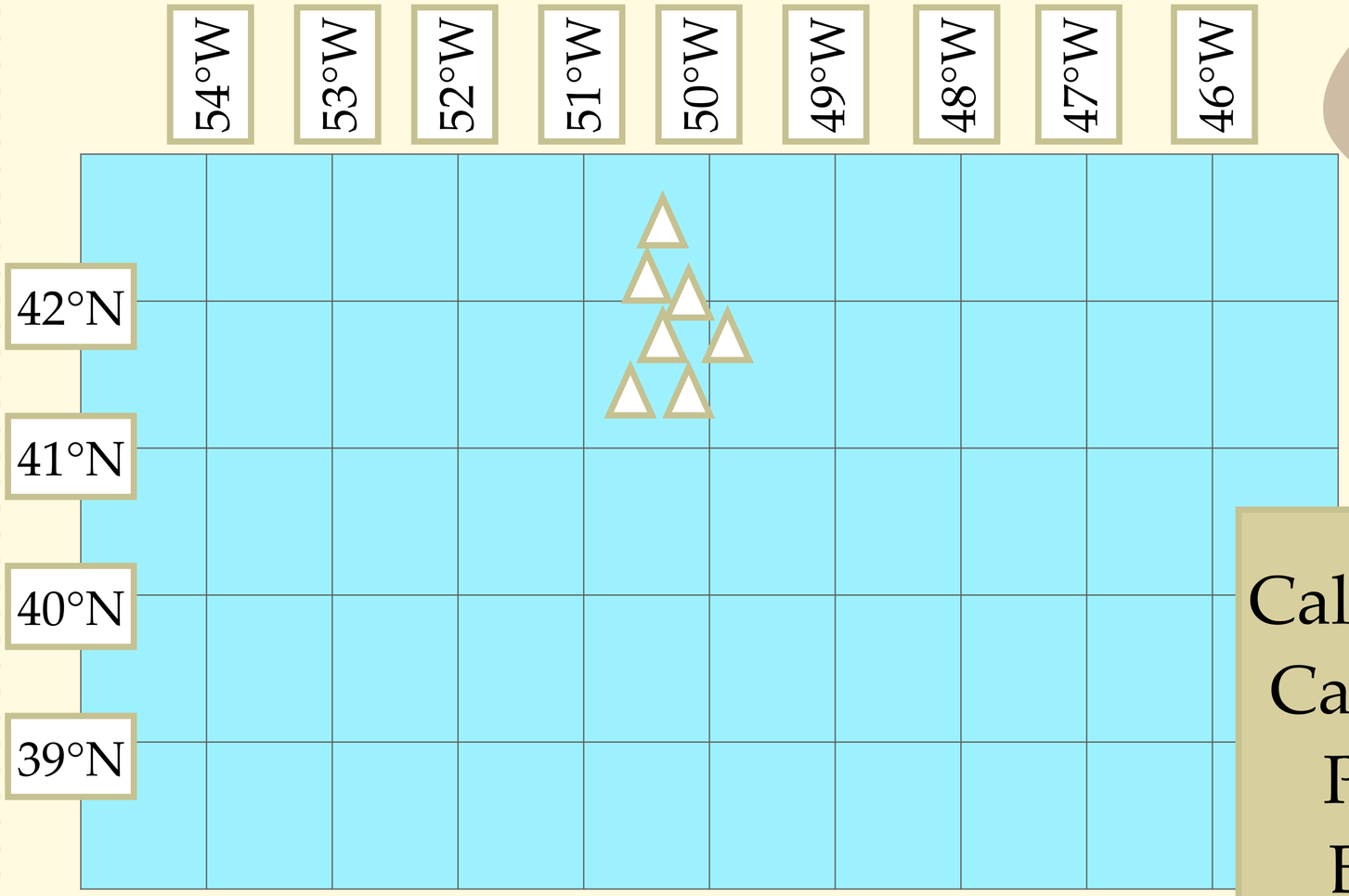

△ -Ice field

Can you place these ships in their reported locations at the time of Titanic's crash?

Californian - 42.3°N 50.2°W
Carpathia - 41.1°N 49.1°W
Parisian - 41°N 51.4°W
Birma - 40.8°N 52.3°W
Titanic SOS - 41.9°N 50°W

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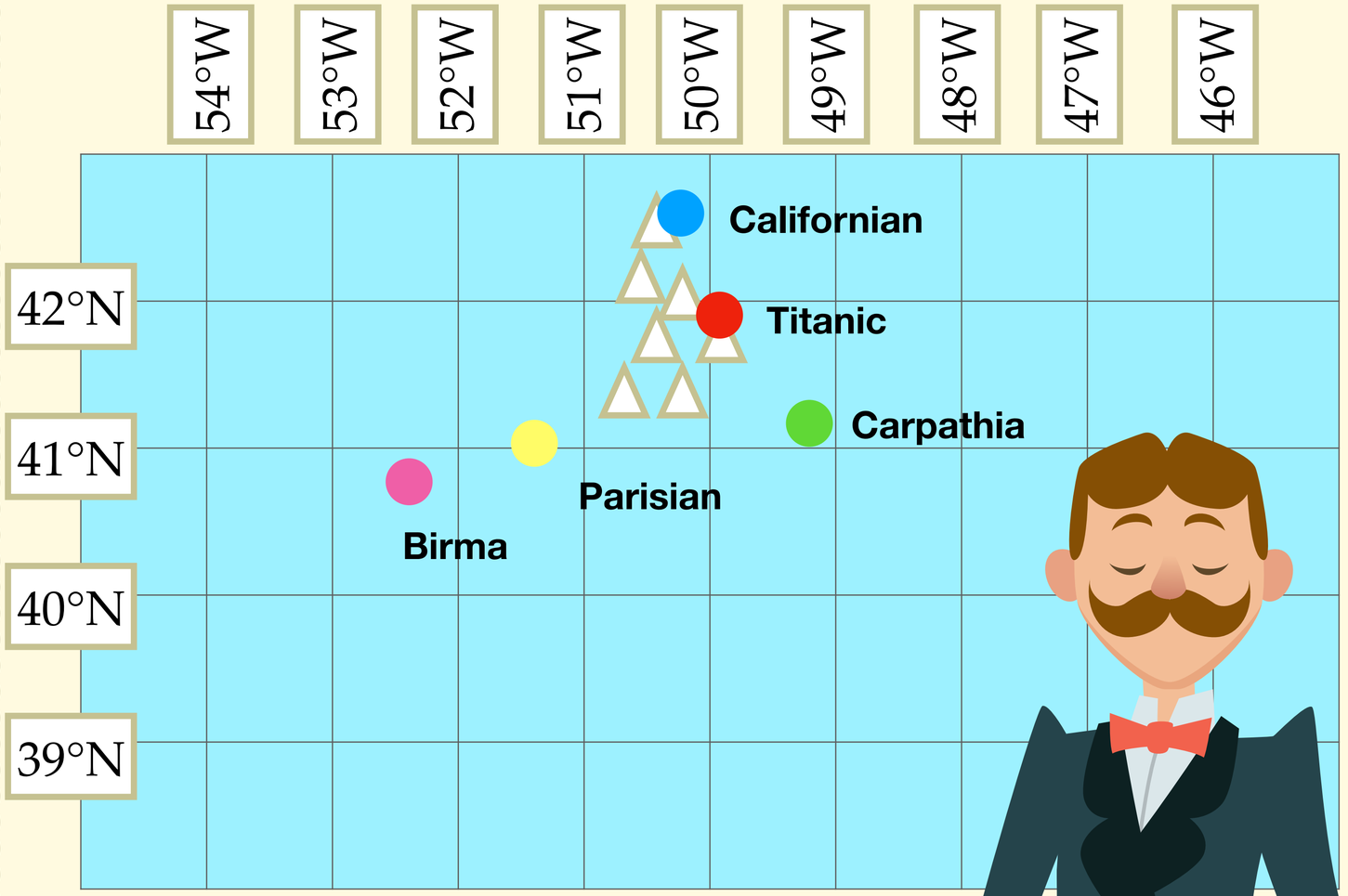

△ -Ice field

What do you notice about the locations of the nearby ships? Which ship was the one who came to the survivors' aid? Was it the closest ship?

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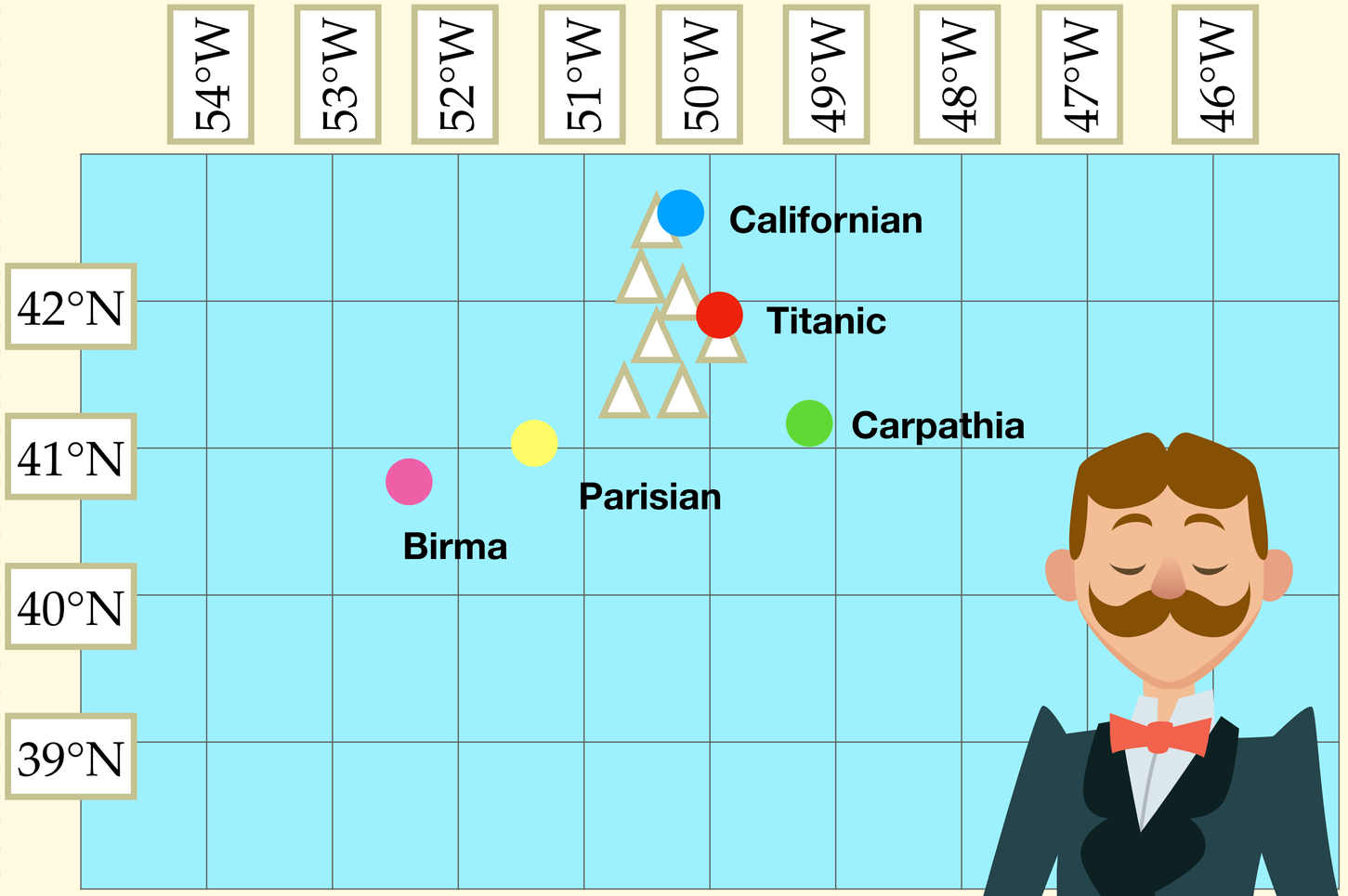

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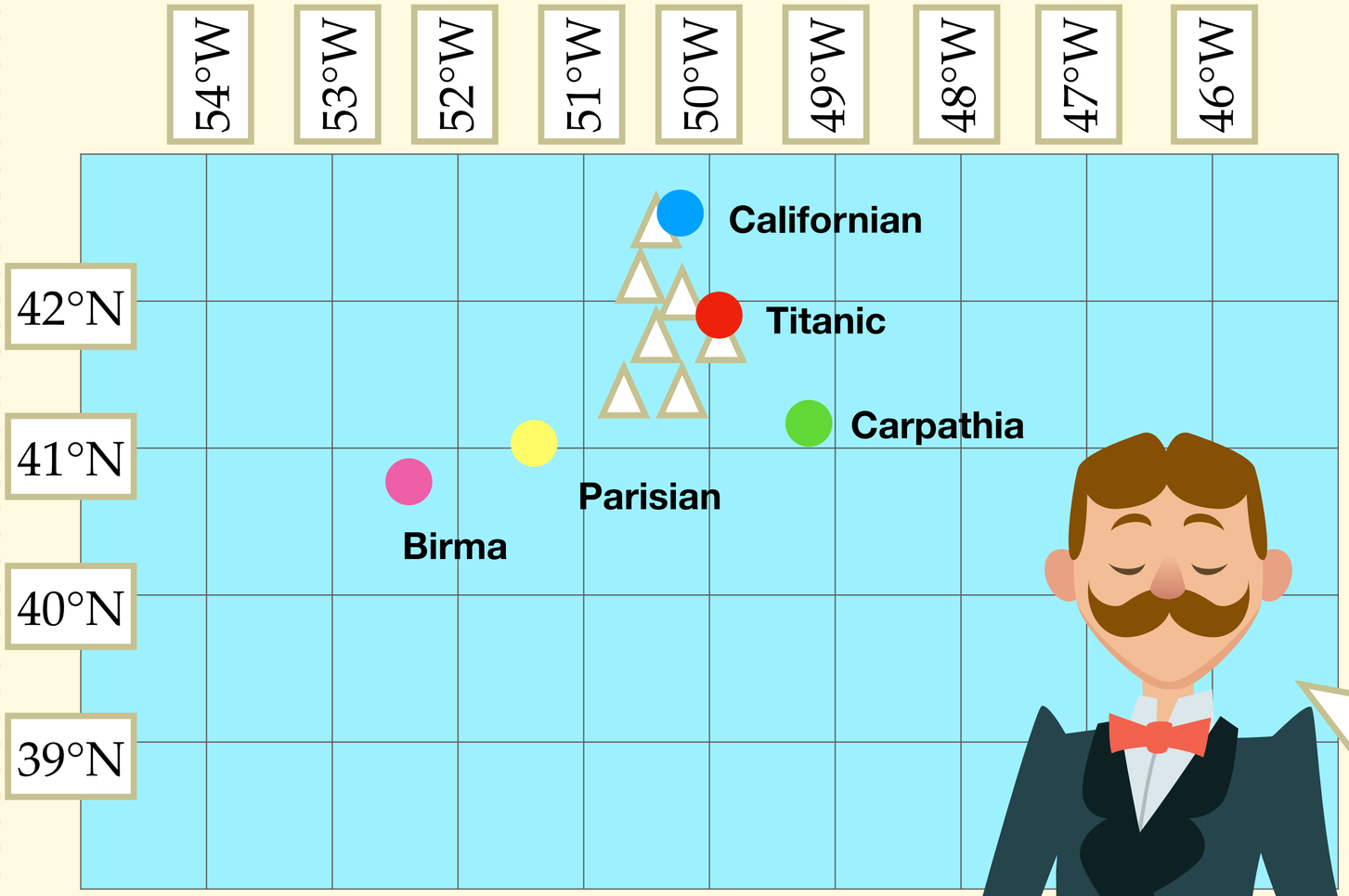

△ -Ice field

During the official investigation of the Titanic's sinking, the captain of the Californian, Captain Lord, gave a variety of different answers when asked his ship's location on the night of the collision. This led many people to think he was lying about the location, making it seem he was further away from the Titanic's distress calls.

Why do you think Captain Lord may have lied about his ship's location?

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