

TITANIC

19

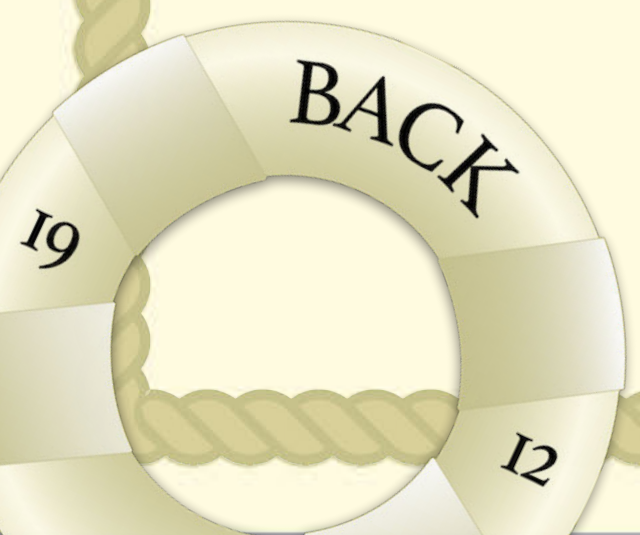
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Learning Objective:

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

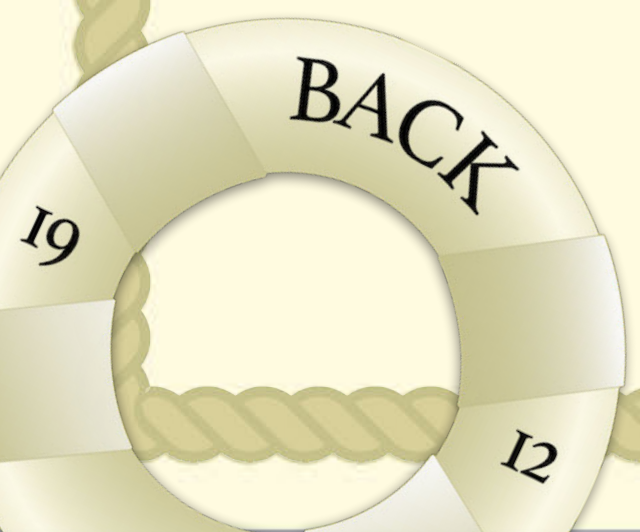
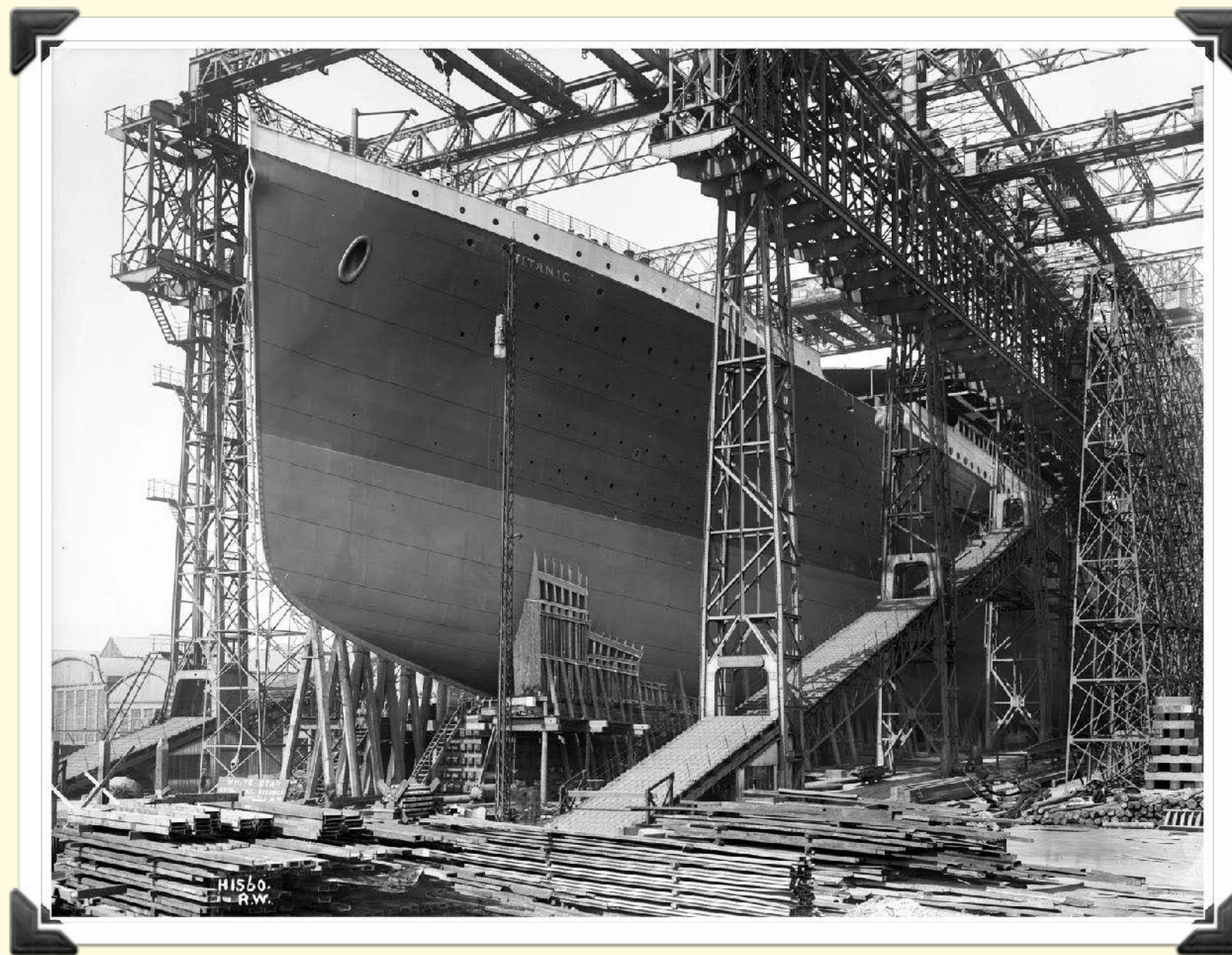


How many
important locations can
you think of that are to do
with the Titanic?
How are they linked to
the famous ship?



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

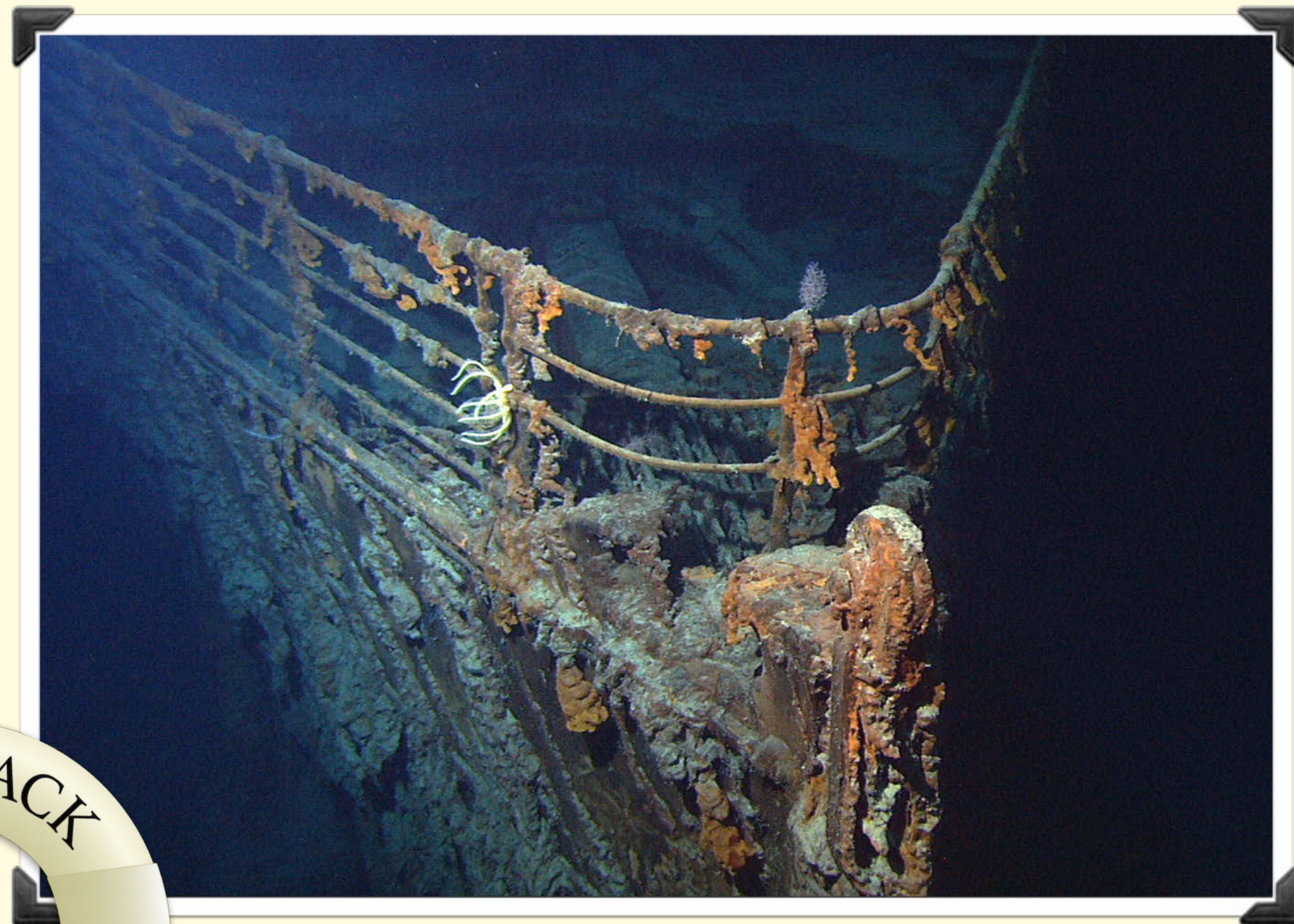
The Titanic's distress calls were picked up by the land-based wireless station at Cape Race.

Did you come up with any others?

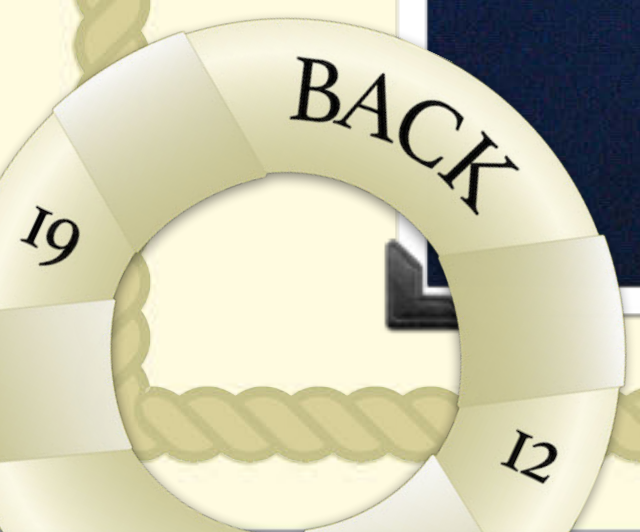


These are the co-ordinates for the location of
Titanic's wreck site.

41°N 49°W



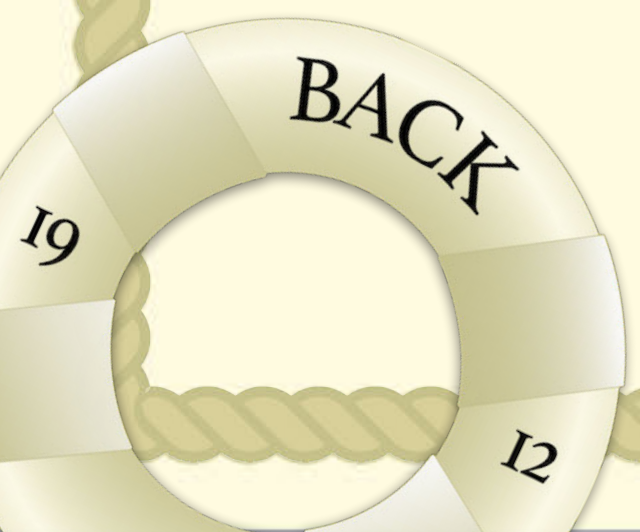
Do you know
how these co-
ordinates refer
to a location?



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 ($^{\circ}$).

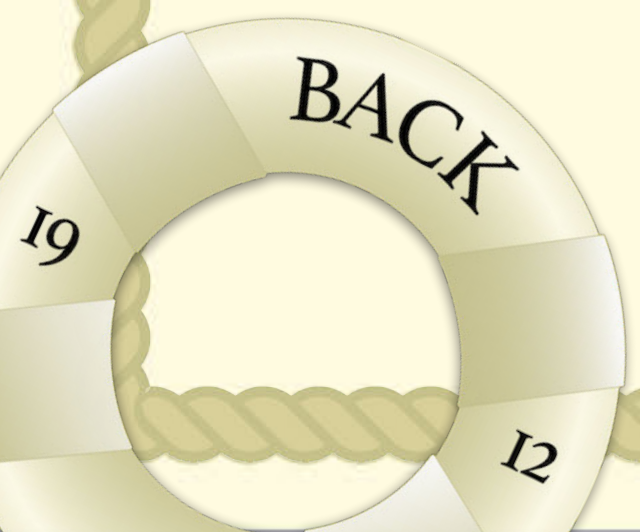




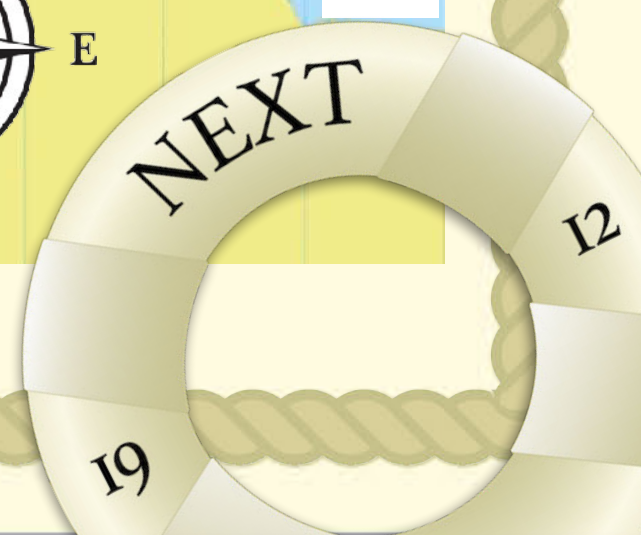
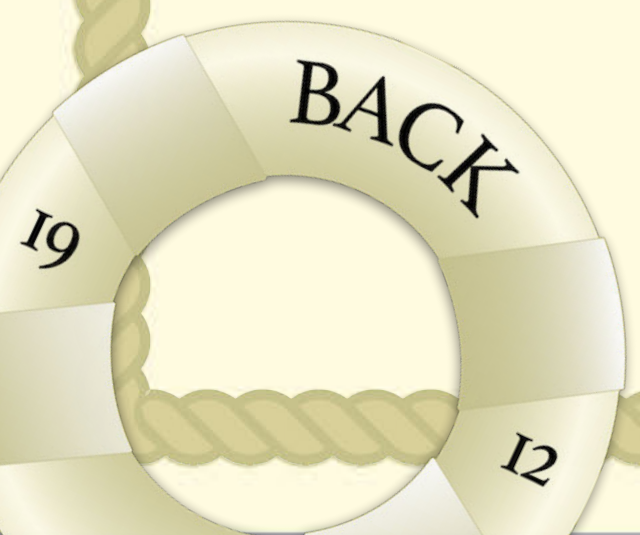
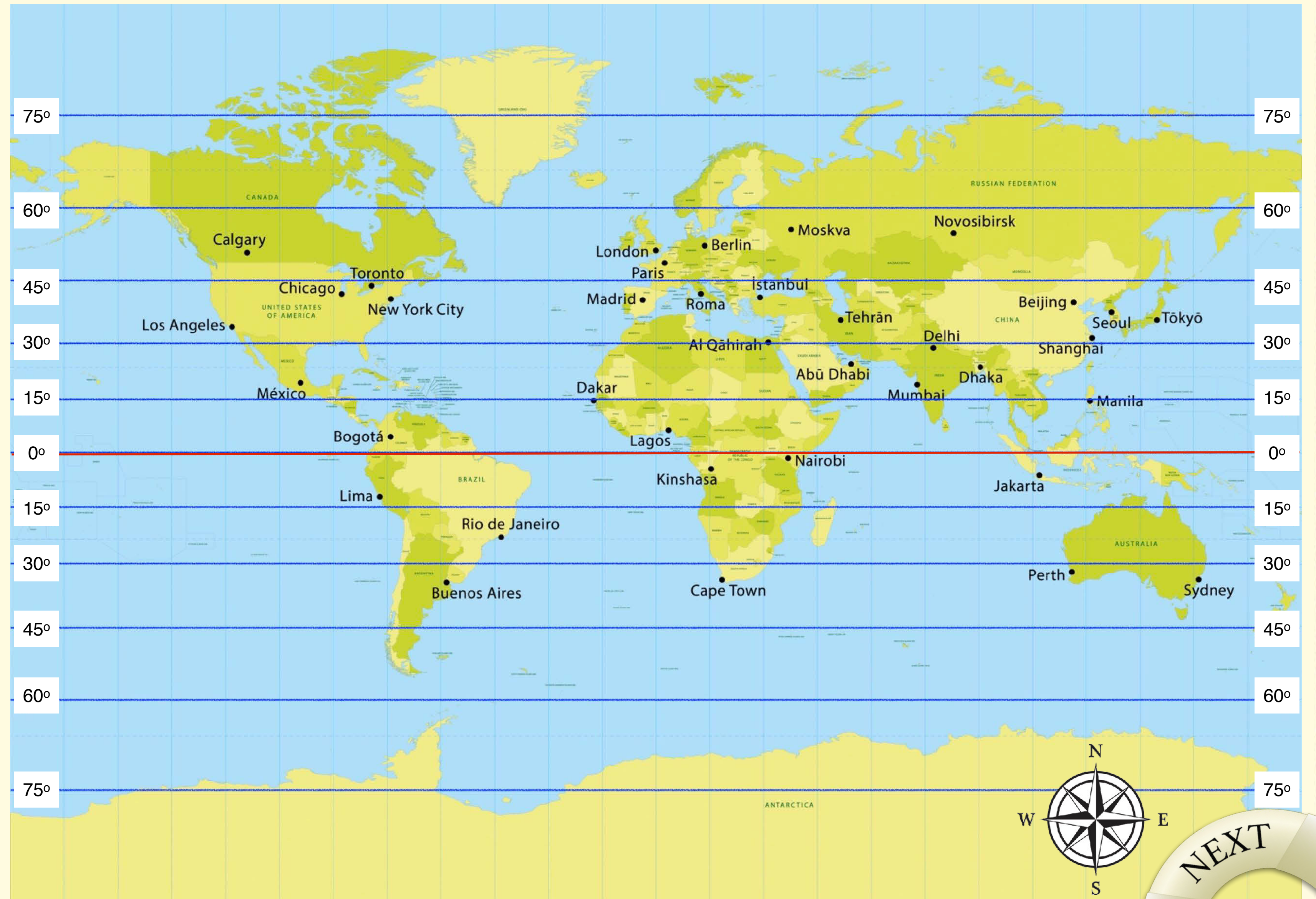
Latitudinal lines run horizontally around the planet.



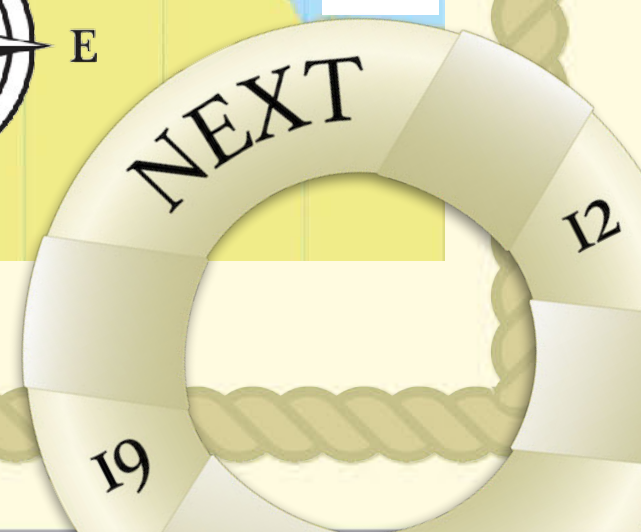
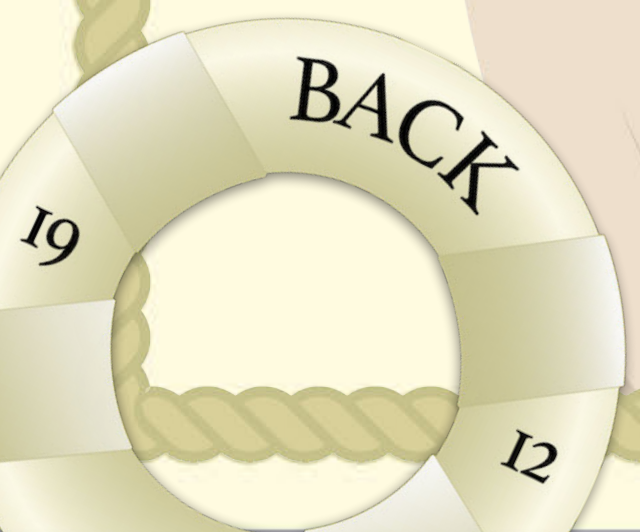
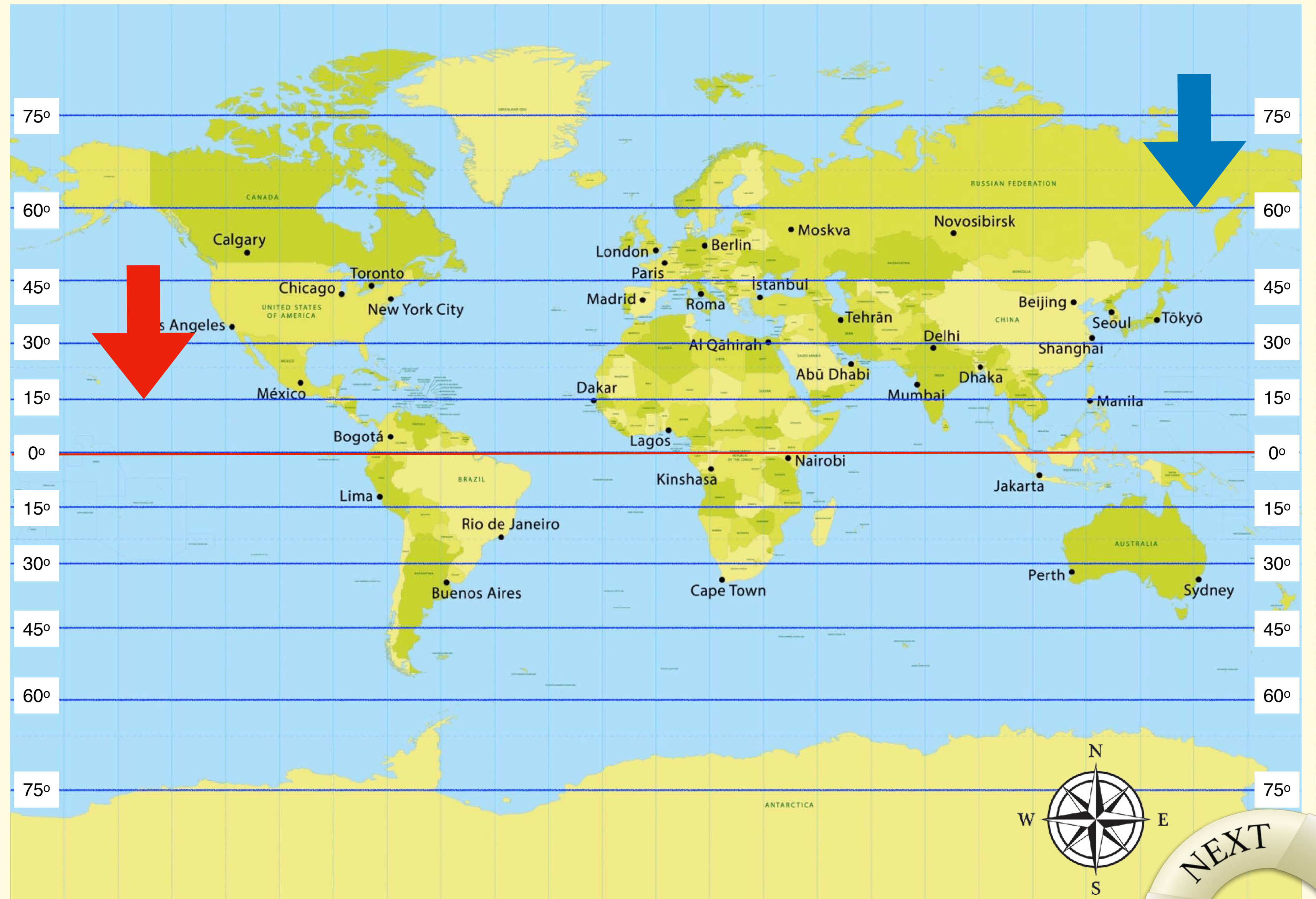
Can you think of an important line of latitude?



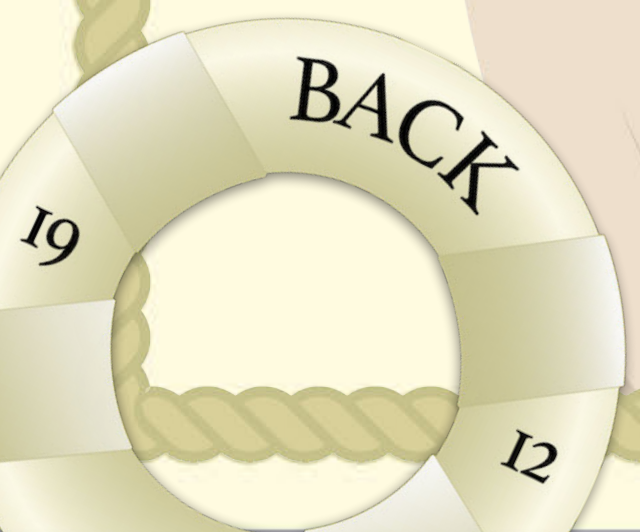
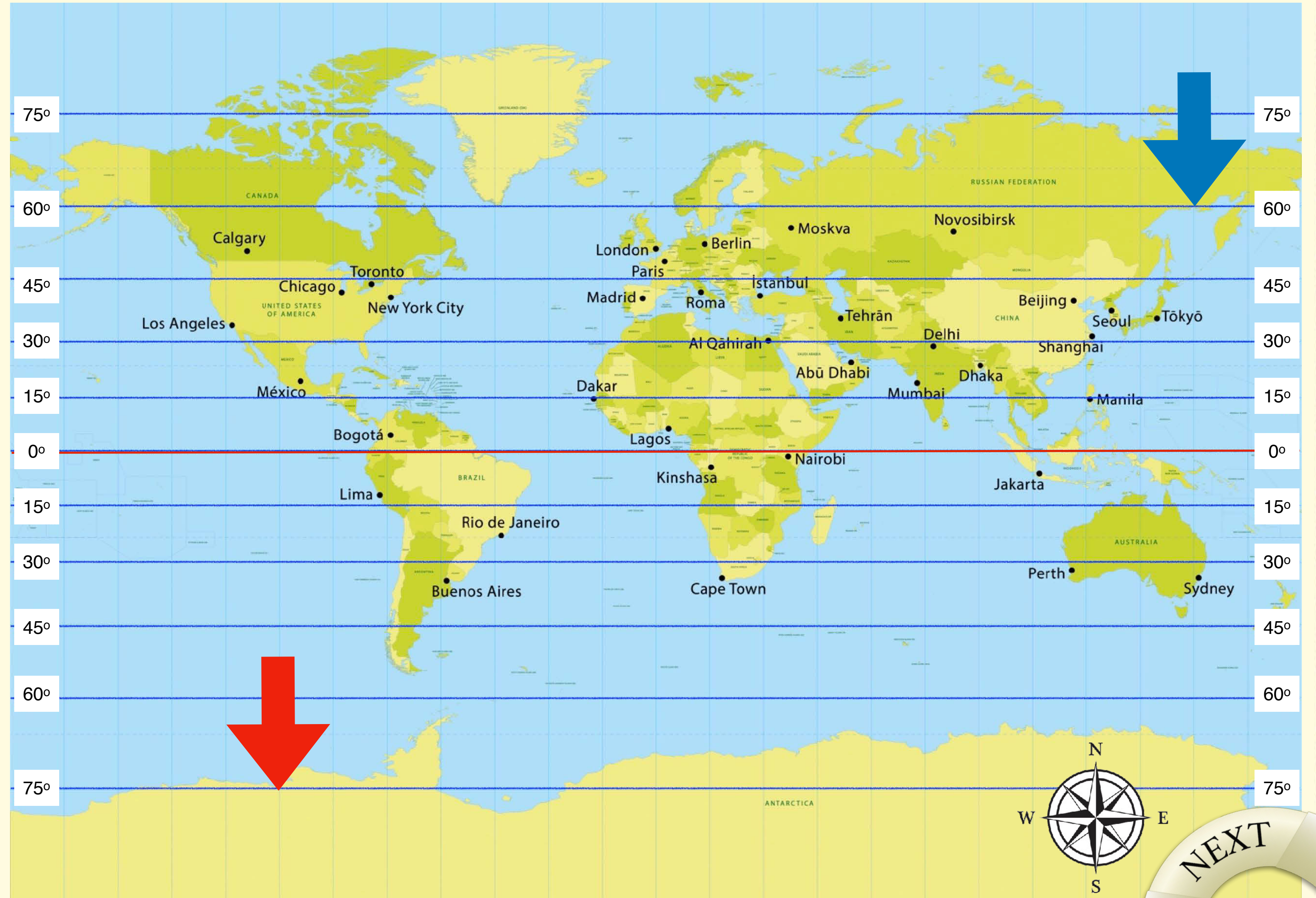
The equator is the most important line of latitude. This horizontal line runs around the widest part of the planet. The equator's latitudinal co-ordinate is 0° . From this line, other latitudinal lines are measured in degrees north or south. Each degree is equal to around 69 miles.



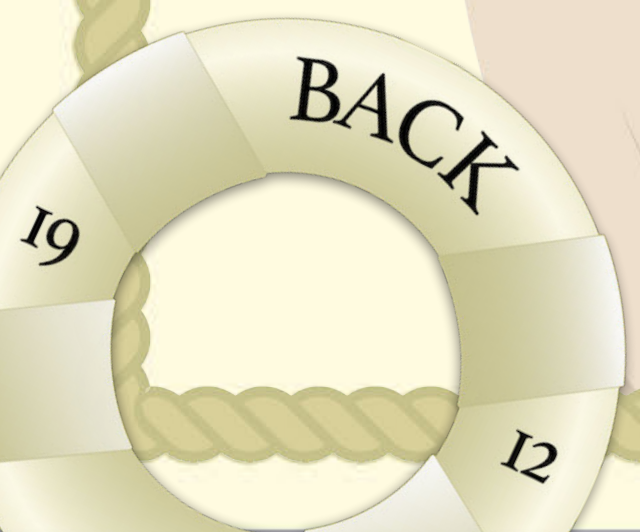
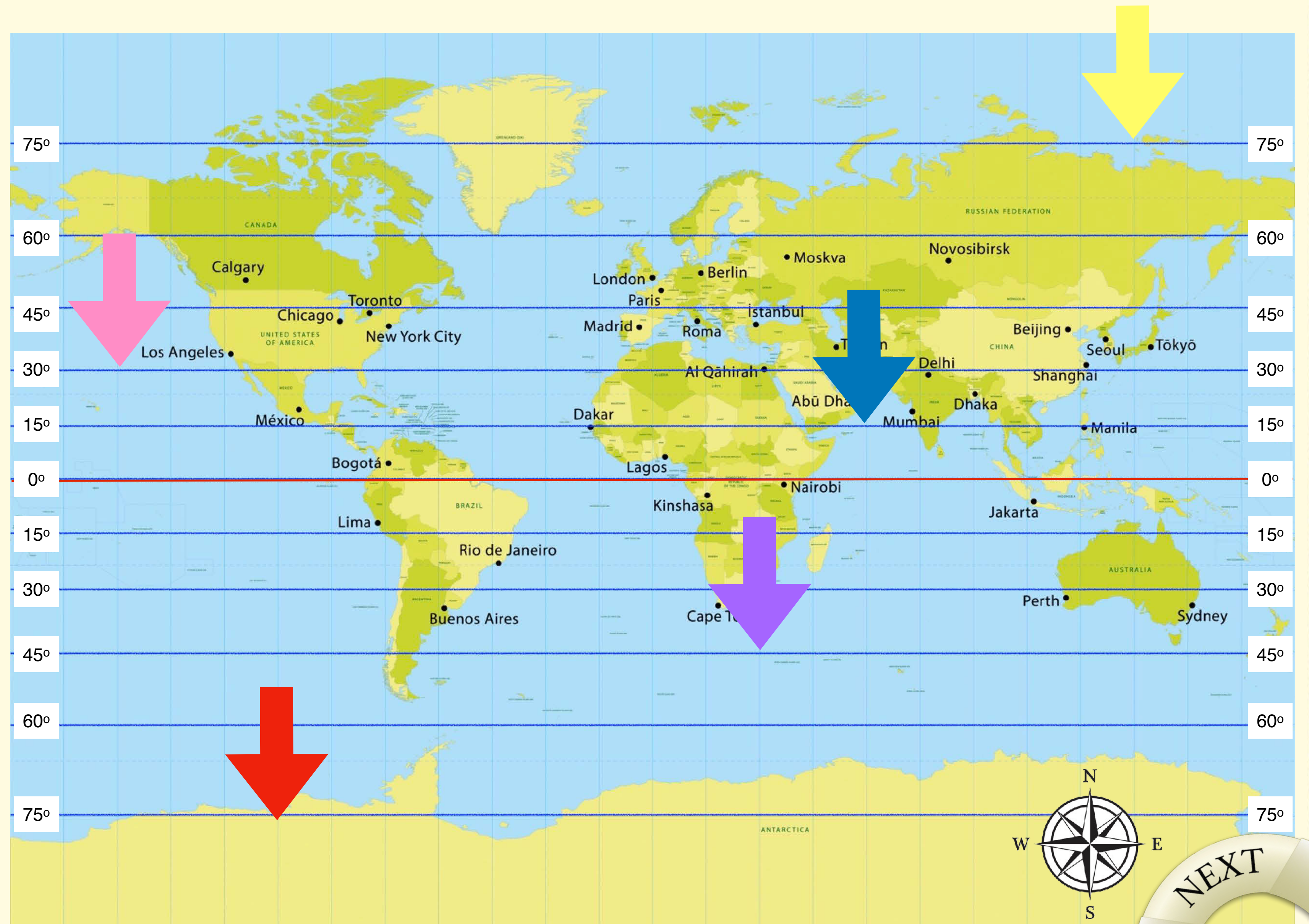
So, the red arrow has a latitudinal coordinate of 15°N .
What latitudinal coordinate does the blue arrow have?



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?



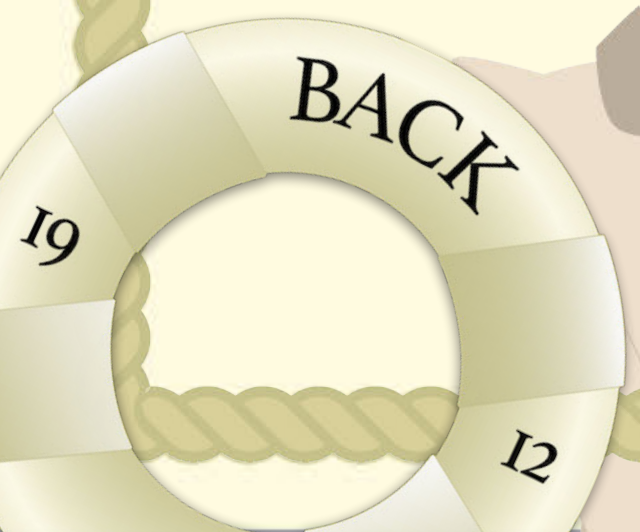
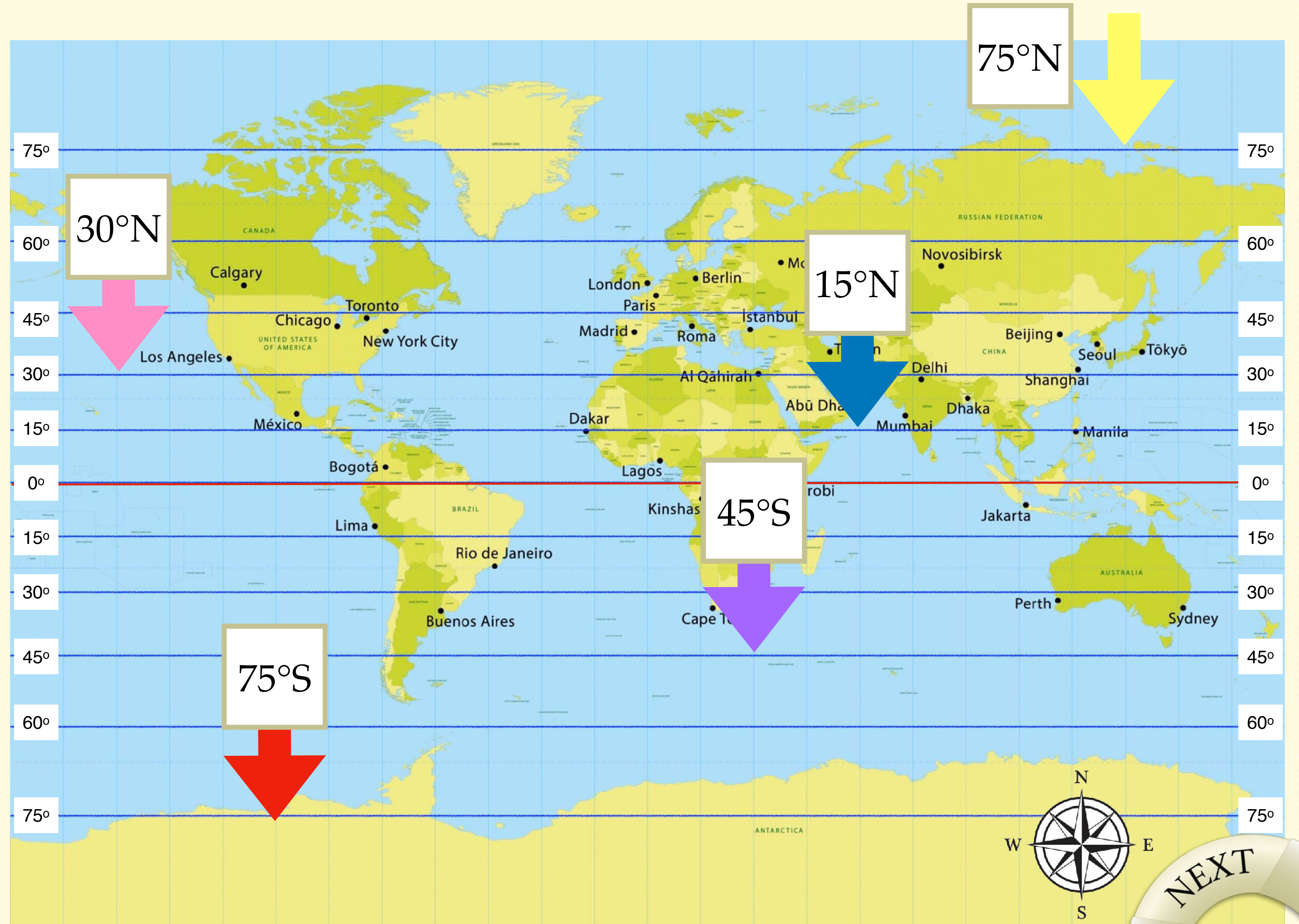
Did you get 75°S?
Well done if you did!
What are the
latitudinal co-
ordinates of the other
arrows?

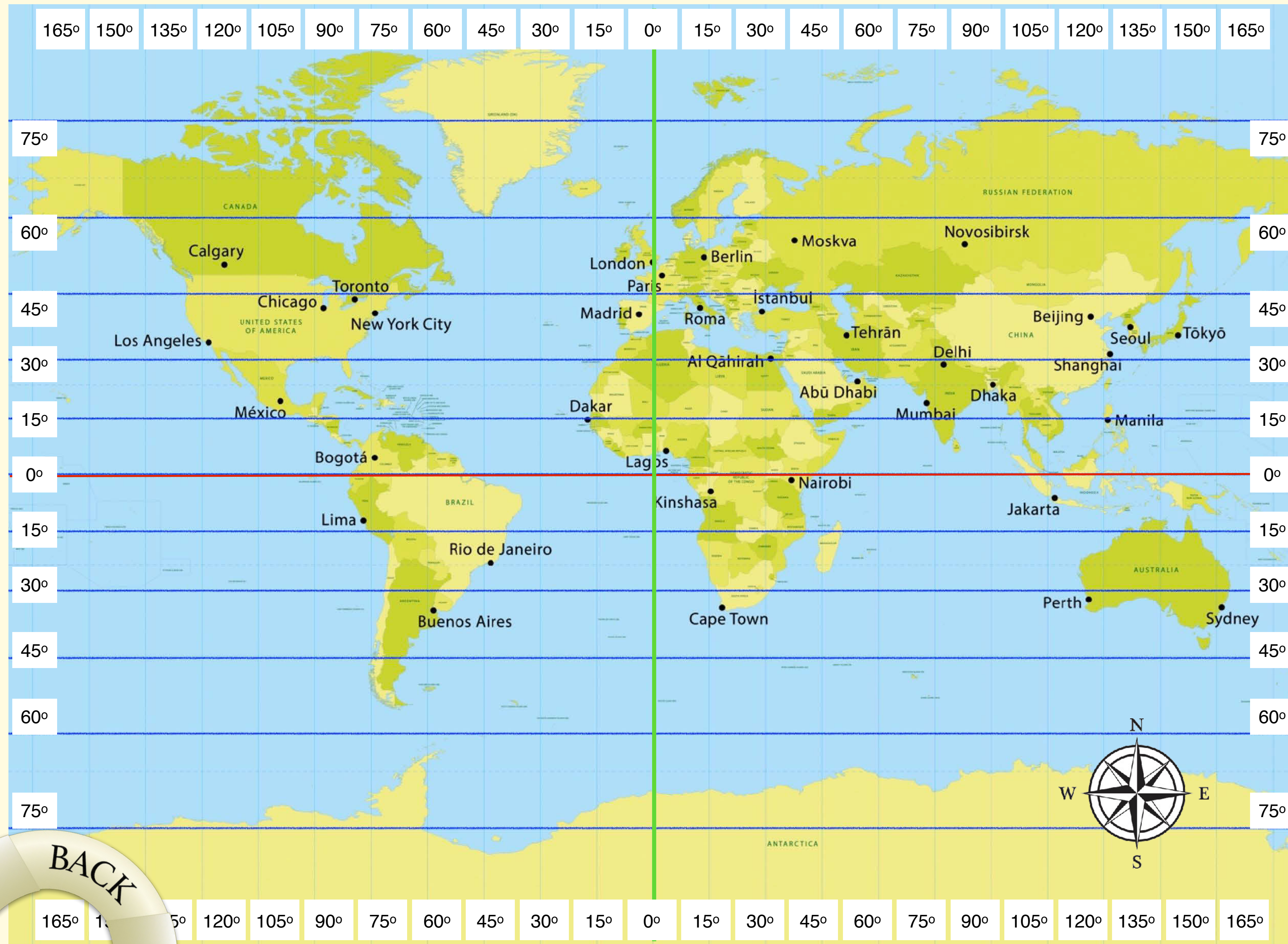


Did you get them right?

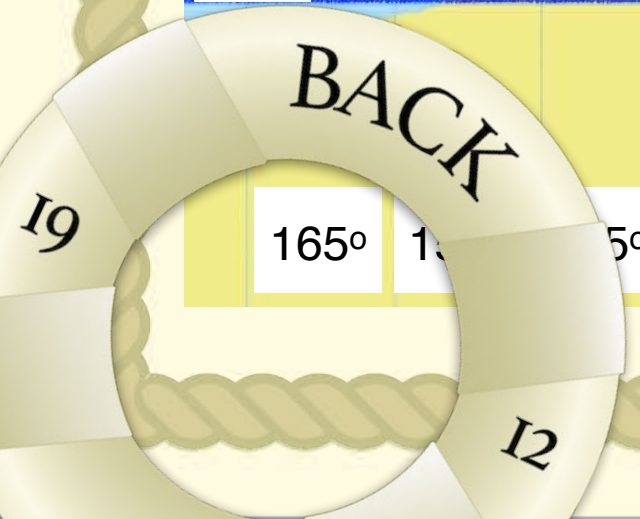
Do you remember what the vertical lines on the grid were called?

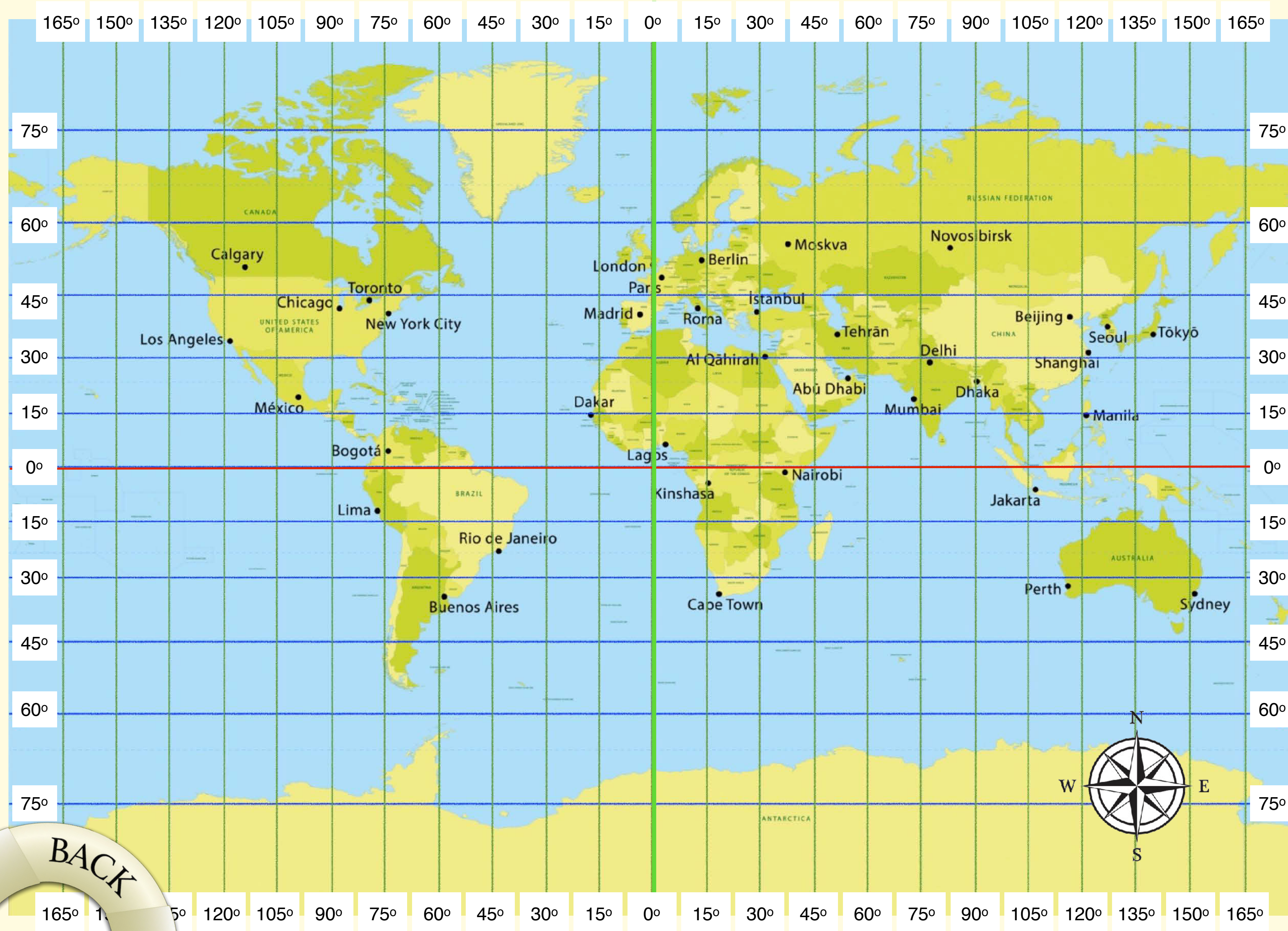
Where do you think the most important vertical line is?



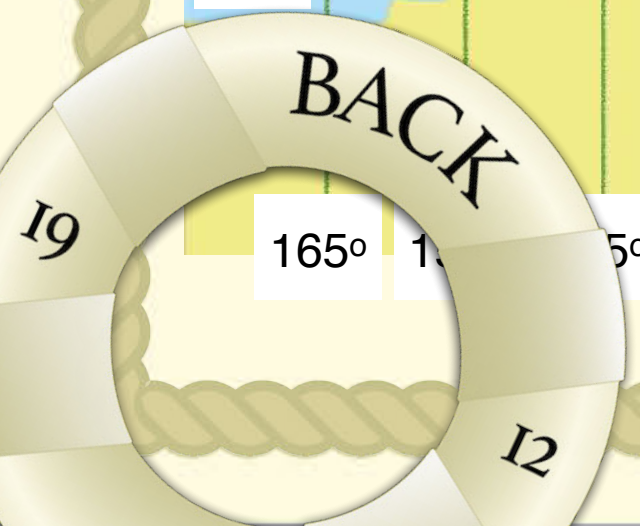


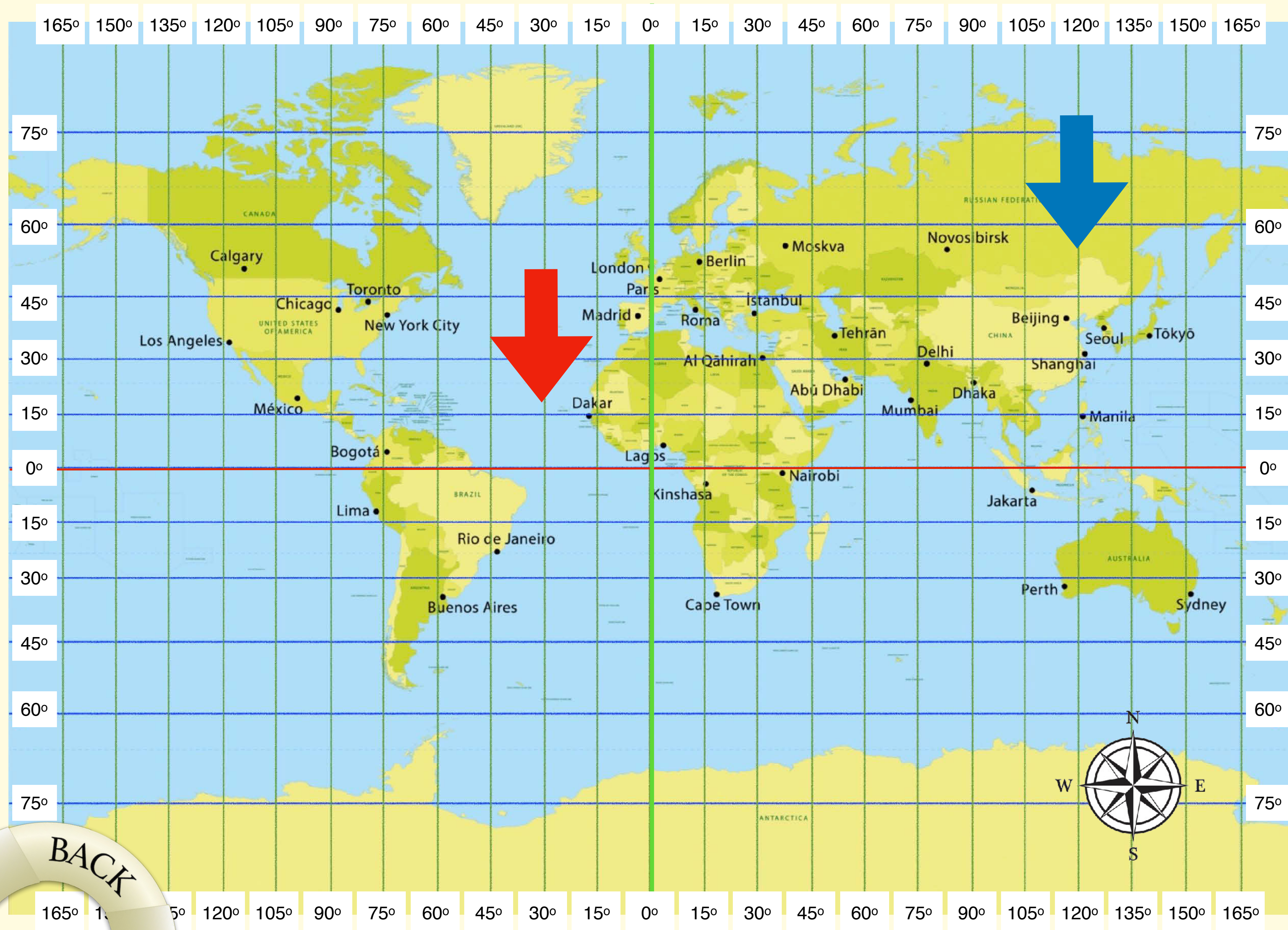
Unlike the equator, there isn't an obvious line to mark as 0° longitude. So, in 1884 it was decided that it would run through Greenwich, England.



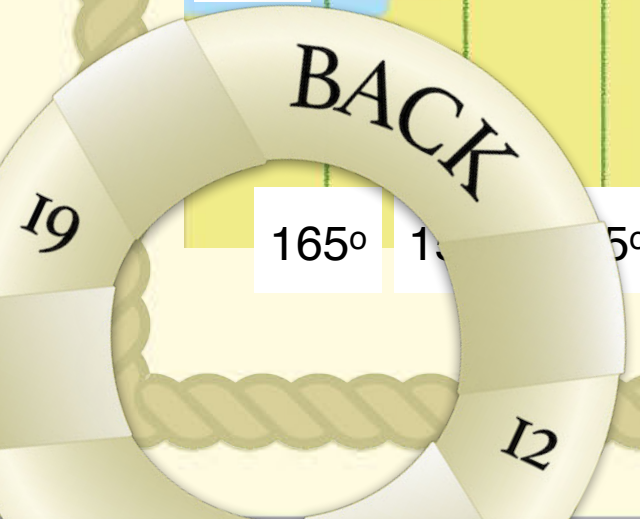


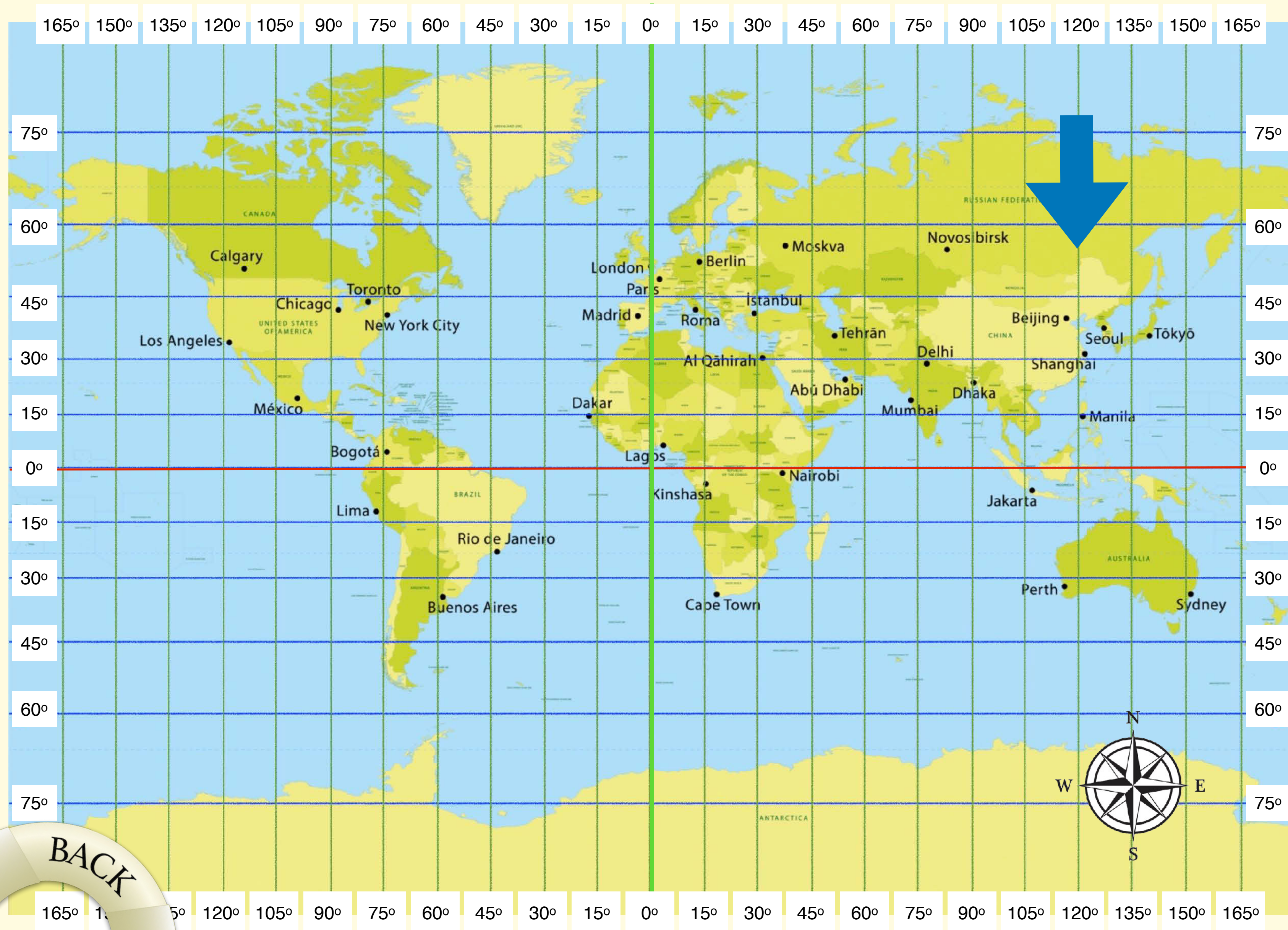
Other lines of longitude are measured in degrees east or west of this line.



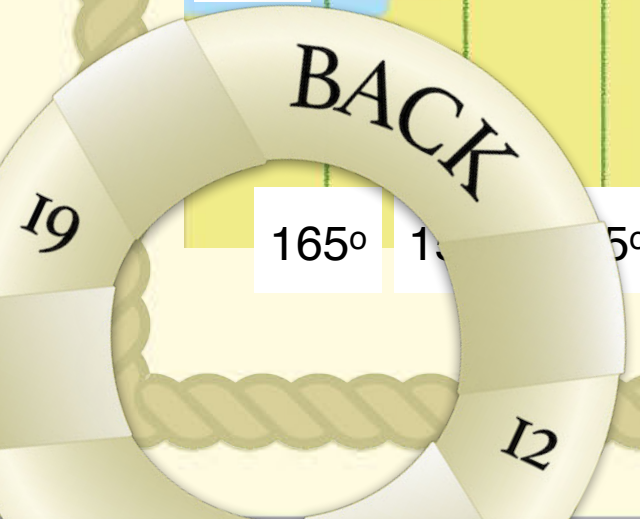


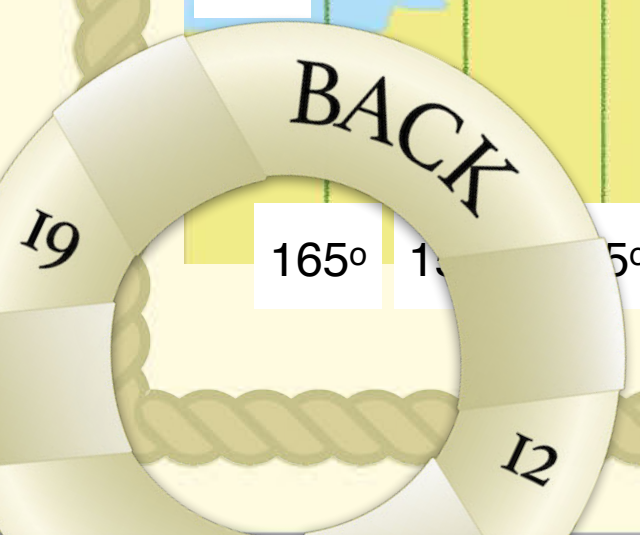
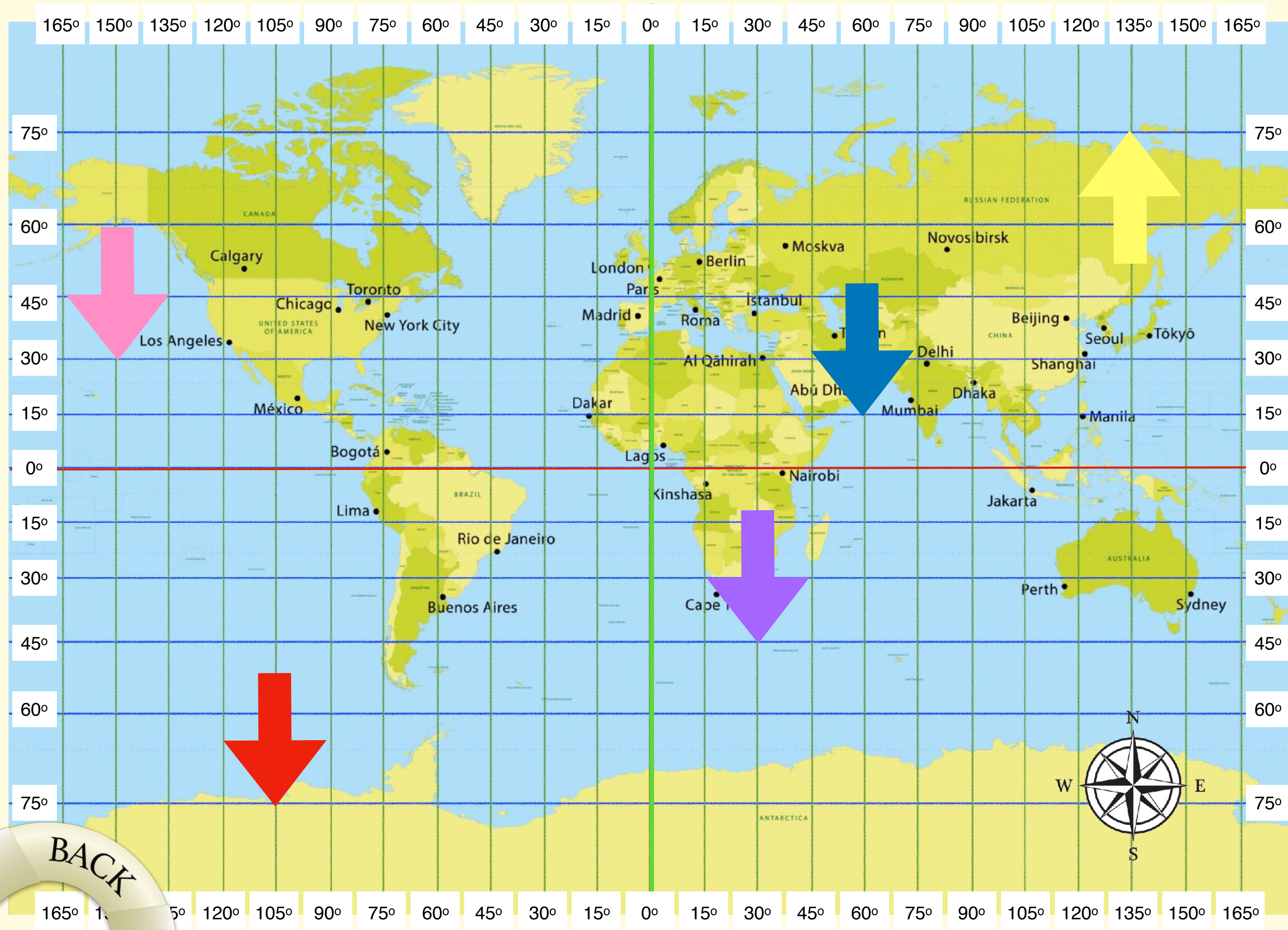
The red arrow has a longitudinal coordinate of 30°W .
What is the blue arrow's longitudinal coordinate?

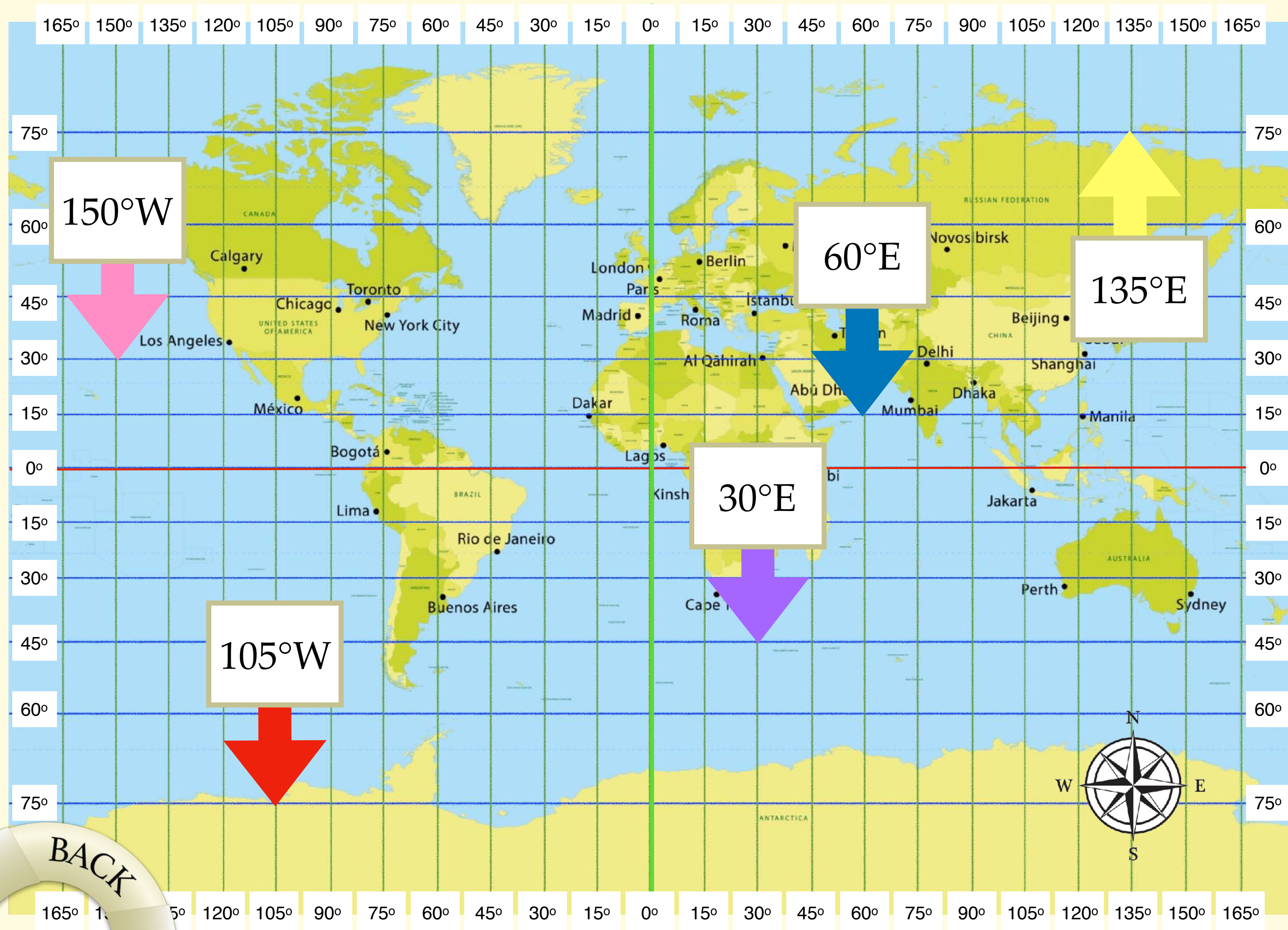




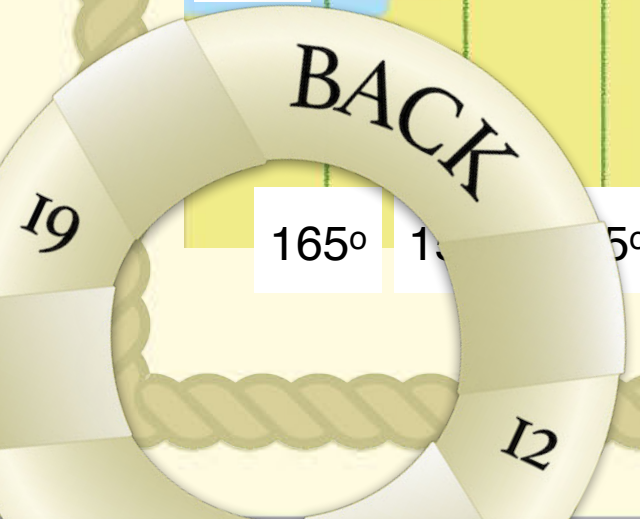
Did you get 120°E?
Well done!
See if you can find
the longitudinal co-
ordinates of the
arrows on the next
slide.

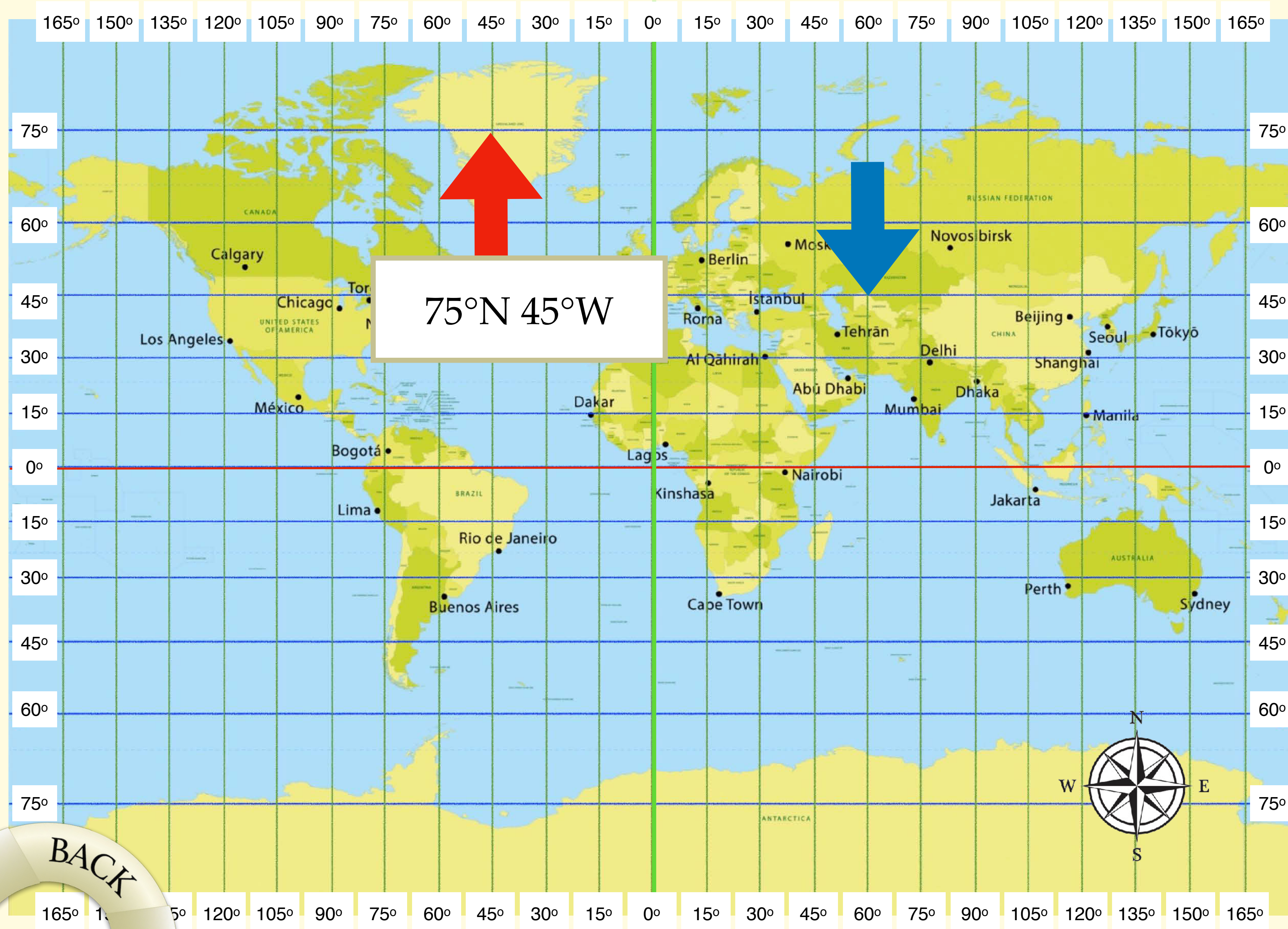




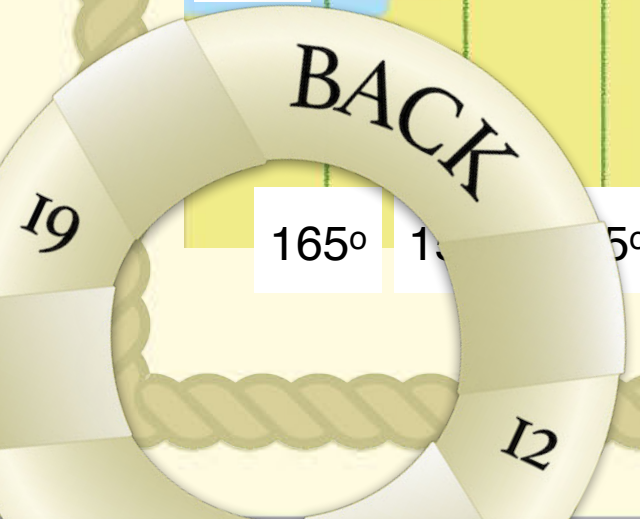


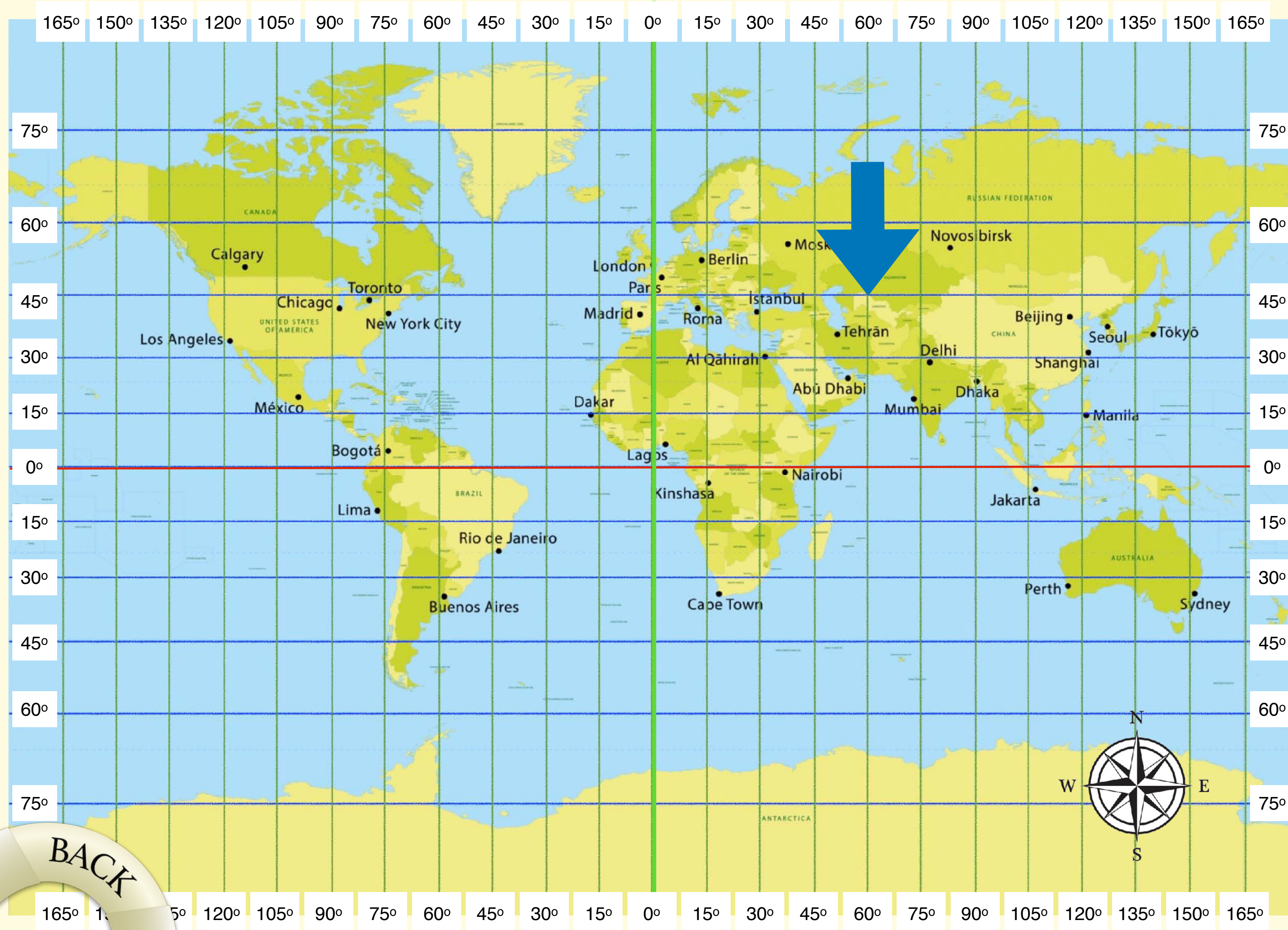
How did you get on? Are you ready to put the latitude and longitude coordinates together?





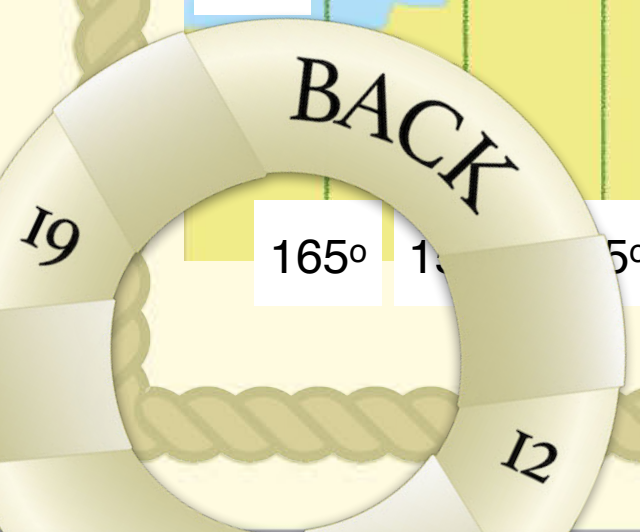
When writing a set of co-ordinates, the latitude (N/S) comes first, then the longitude (E/W).
What are the full co-ordinates for the blue arrow?

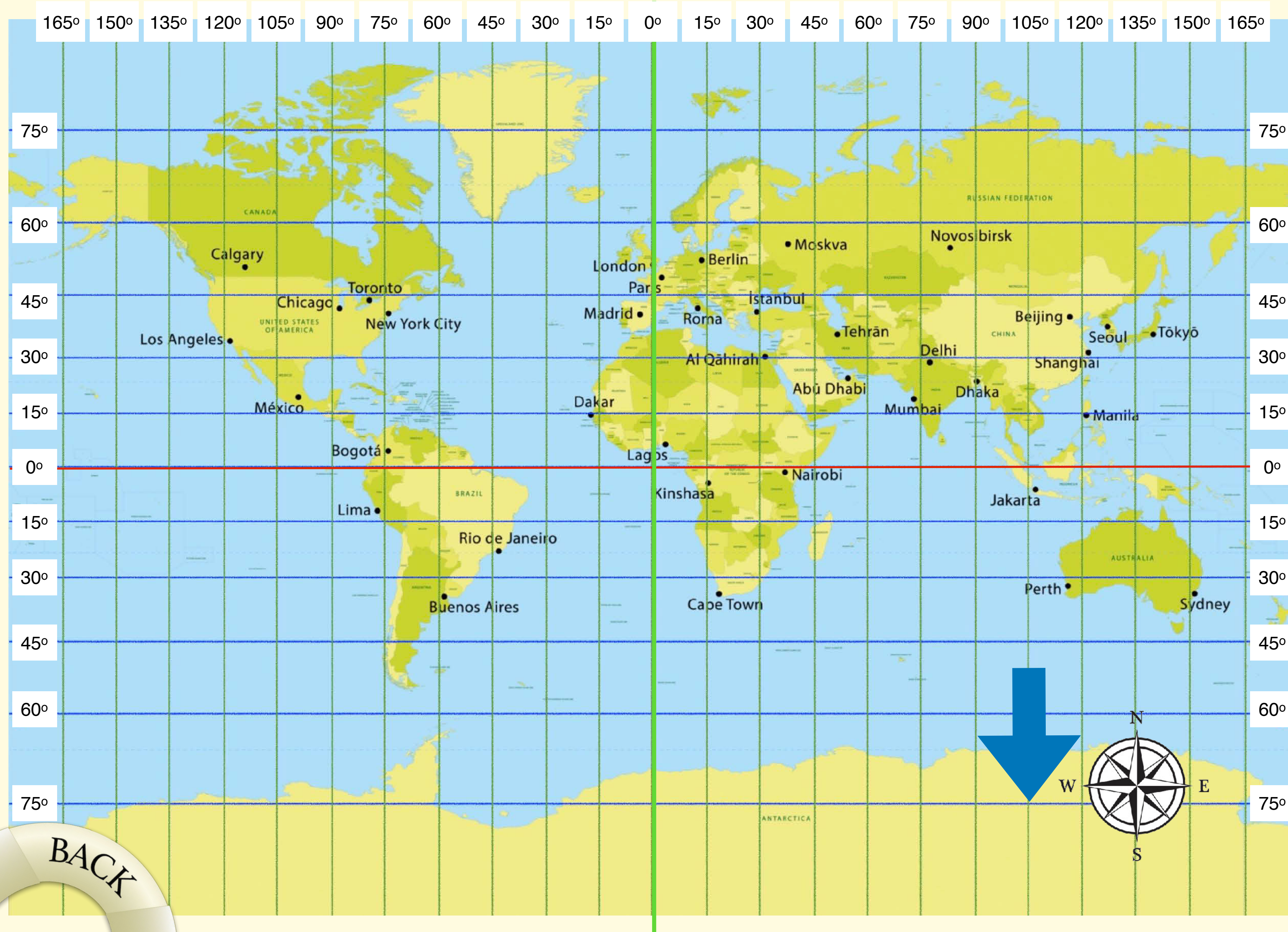




Did you get
 $45^{\circ}\text{N } 60^{\circ}\text{E}$?
Well done.

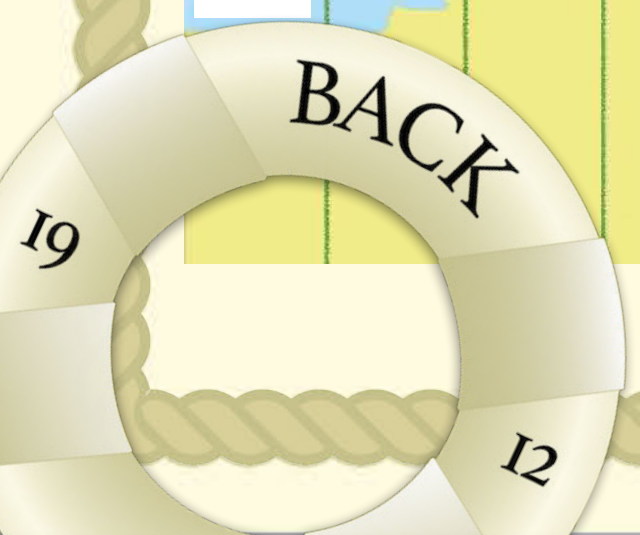
Which continent
would $75^{\circ}\text{S } 105^{\circ}\text{E}$
be in?

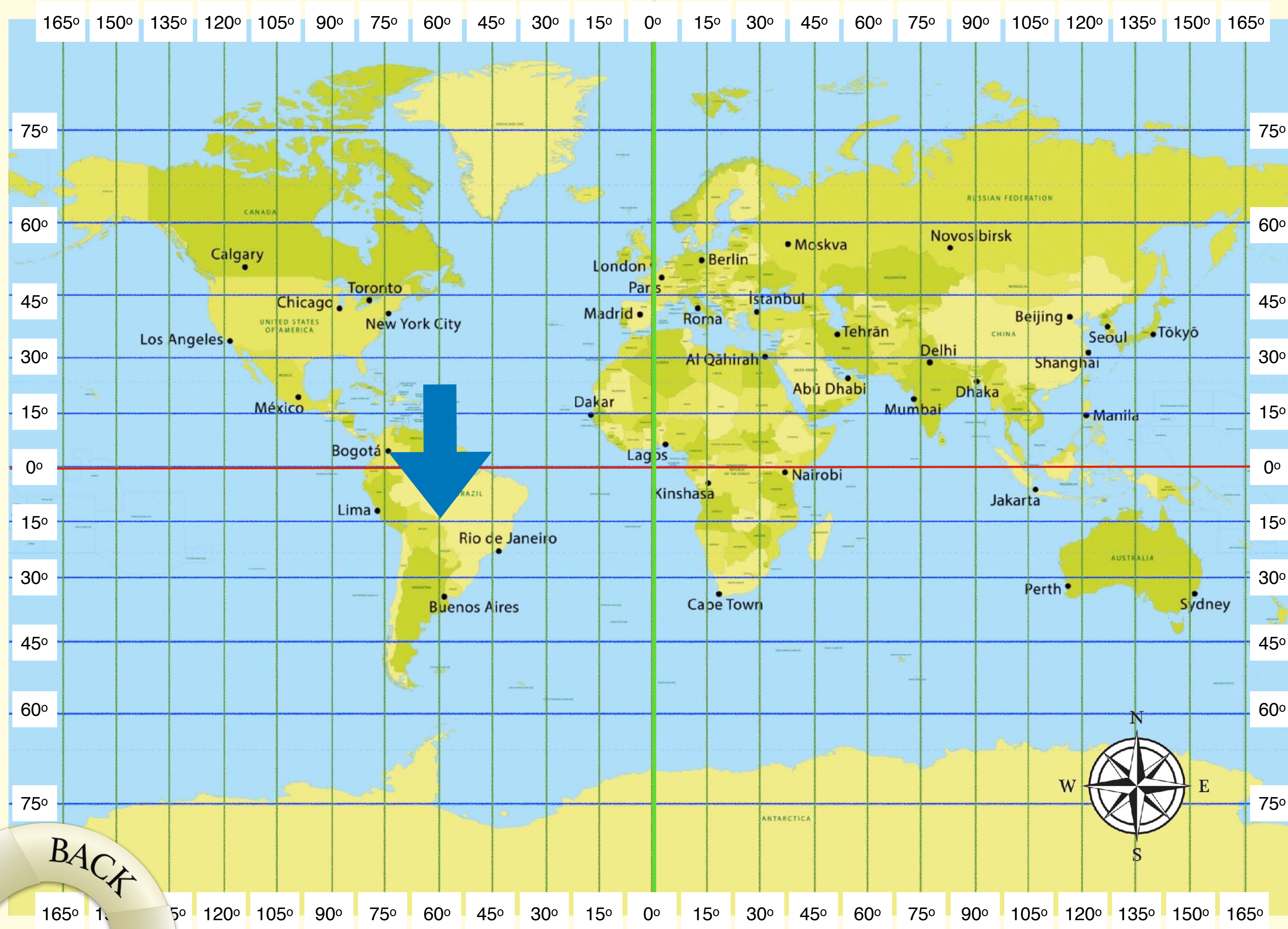




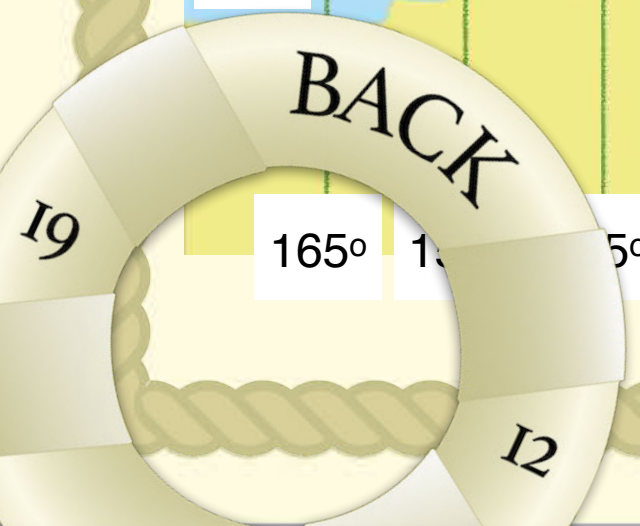
75°S 105°E would be in Antarctica.

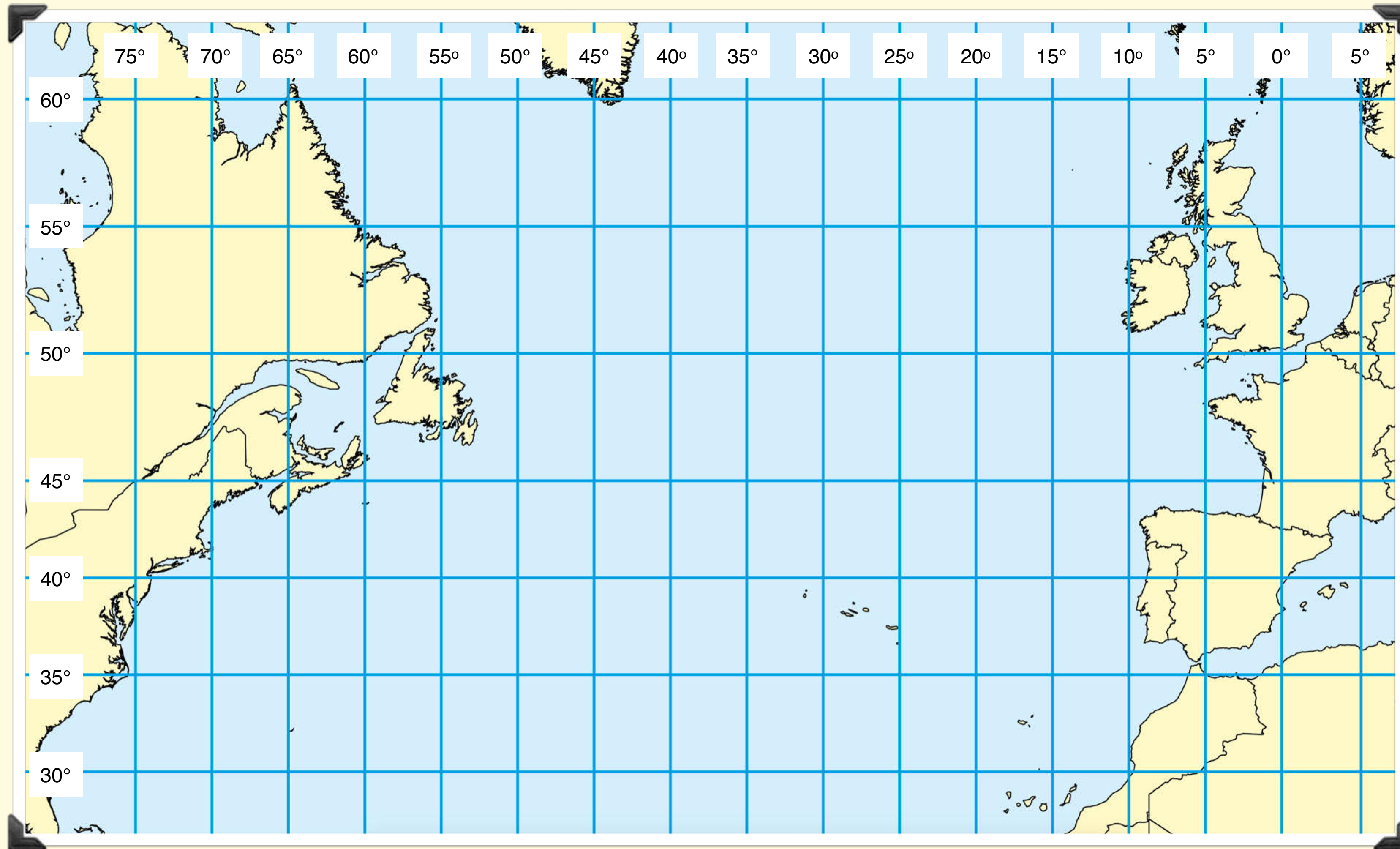
Which continent would 15°S 60°W be in?



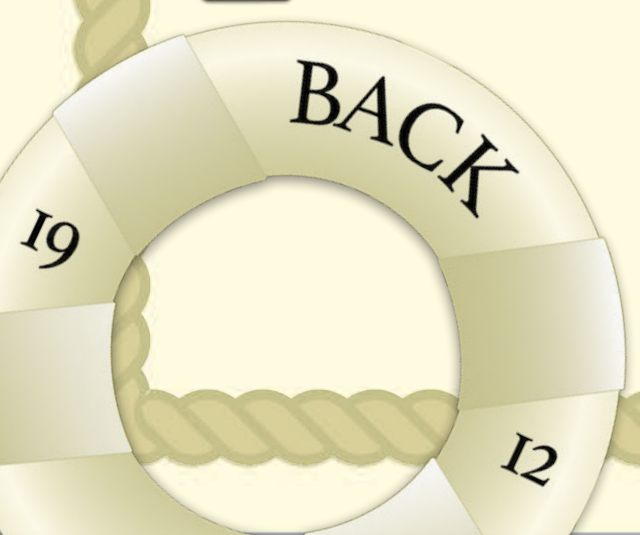


15°S 60°W is in South America. Can you find a set of co-ordinates that would be in Australia? Have a partner check your answer.





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.



Plenary

54°W

53°W

52°W

51°W

50°W

49°W

48°W

47°W

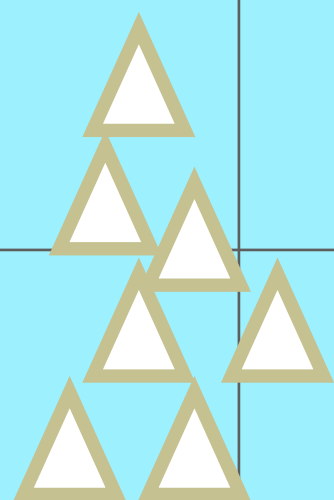
46°W

42°N

41°N

40°N

39°N



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

Californian - 42.3°N 50.2°W

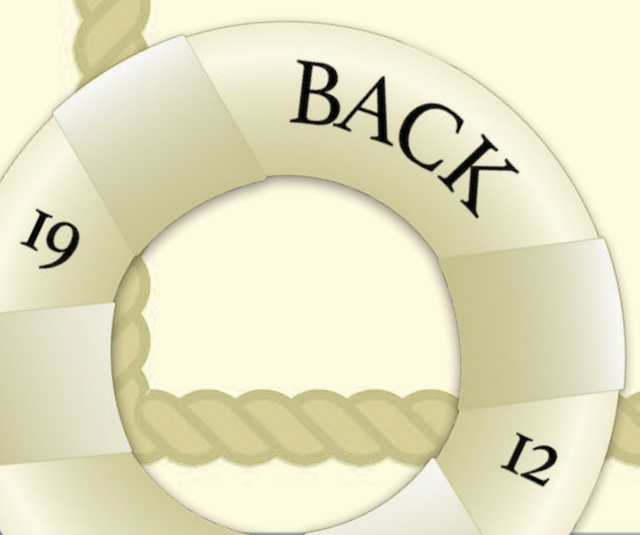
Carpathia - 41.1°N 49.1°W

Parisian - 41°N 51.4°W

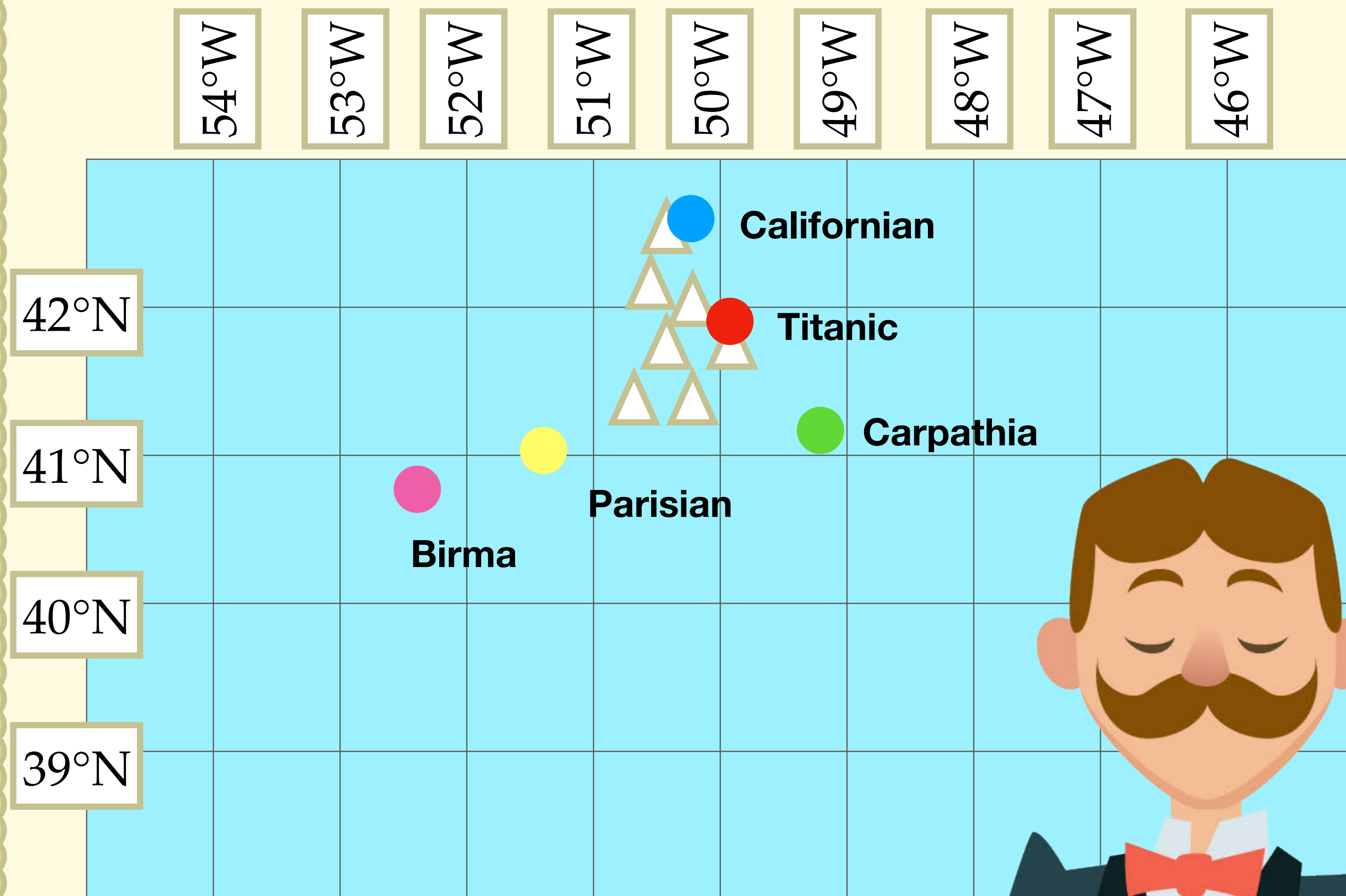
Birma - 40.8°N 52.3°W

Titanic SOS - 41.9°N 50°W

△ -Ice field



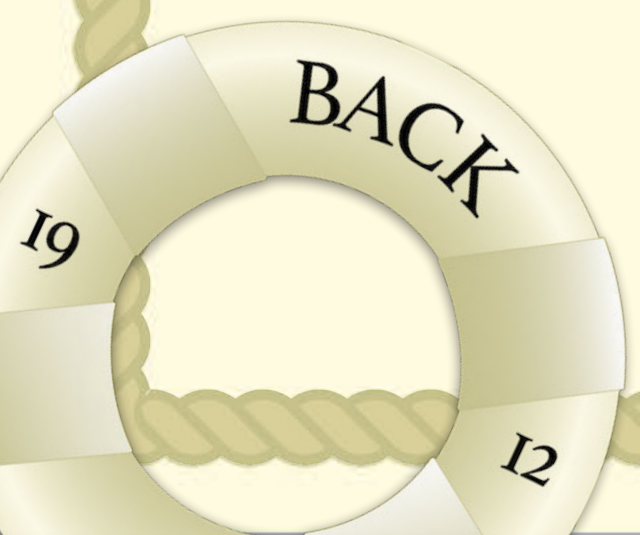
Plenary



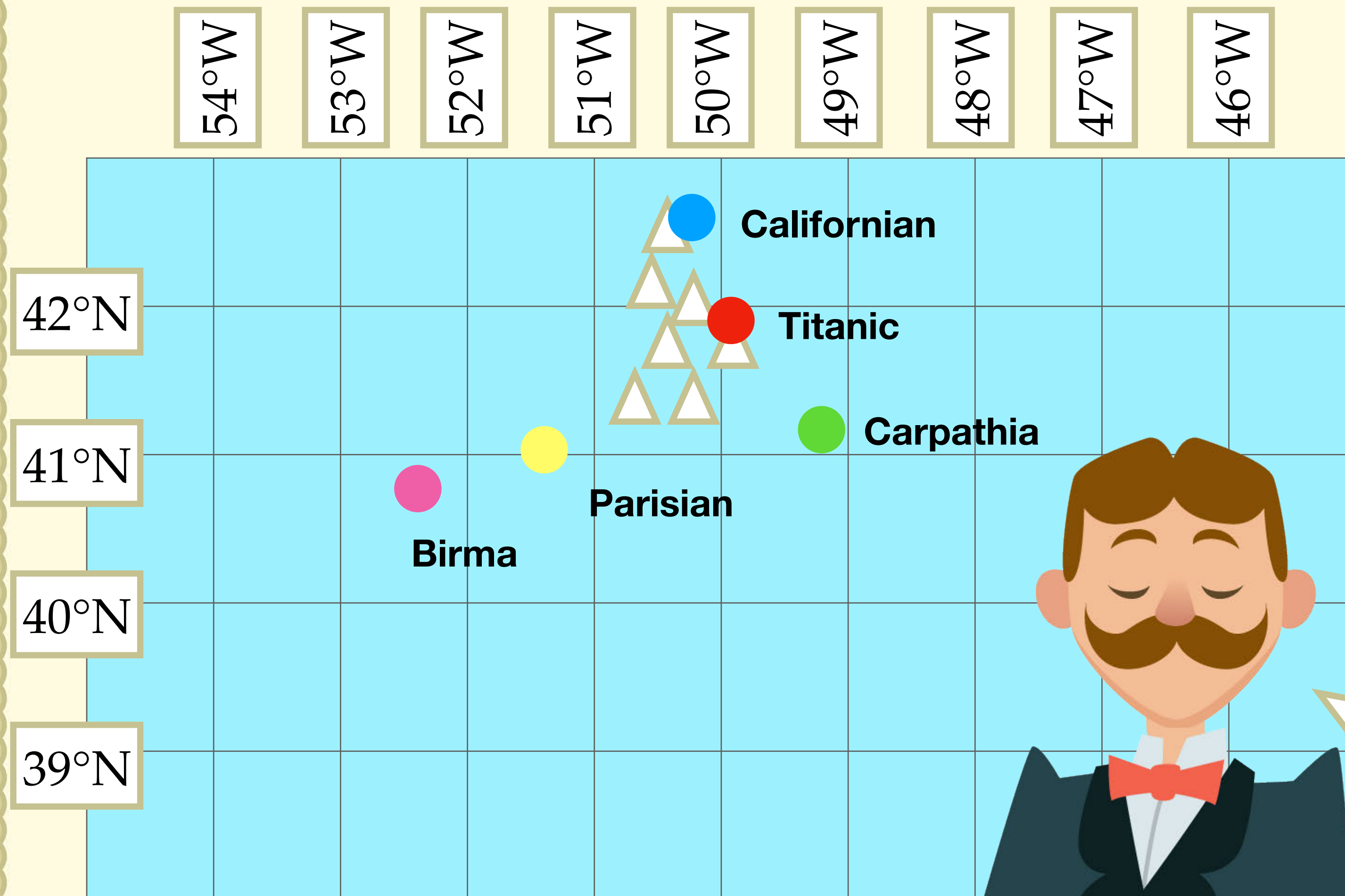
What do you notice about the locations of the nearby ships? Which ship was the one who came to the survivors' aid? Was it the closest ship?



△ -Ice field



Plenary



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?

△ -Ice field

