

ASSESSMENT

In 1821, Fabian von Bellingshausen completed the first circumnavigation of Antarctica, then docked his ship, the *Vostok*, in Rio de Janeiro, Brazil. In 1903, Erich von Drygalski concluded a three-year exploration of Antarctica and stopped his ship, the *Gauss*, in South Africa. The two countries are marked on the maps below.

Assuming that both ships sailed from the same area of the Antarctic continent and that both had good navigators familiar with winds and currents, answer these two questions.

1. Which ship arrived in port in the shorter amount of time?
2. What route did each ship take and what currents did they use?

You do not have a map of ocean currents to help you with this assessment, but you do have a map of wind circulation (see below). Using that map and what you have learned in class, you should be able to figure out the ocean currents. Starting at Antarctica, draw an arrow for each current the navigators would have chosen to sail home in. Number each current. For each current you draw, describe in words, using the back of this sheet:

- a. Its relation to the wind direction
- b. The effect of landmasses on its path
- c. Its direction of flow, e.g., clockwise, counterclockwise, from West to East



