

Round: 6B

The Stellwagen Bank National Marine Sanctuary is located in an area where large commercial ships converge to enter the Port of Boston. Over 200 large commercial ships pass through the waters of the Stellwagen Bank NMS every month. The sanctuary is also a critical seasonal feeding area for several different species of endangered whales. A traffic separation scheme has been established to reduce the risk of ship strikes to whales.

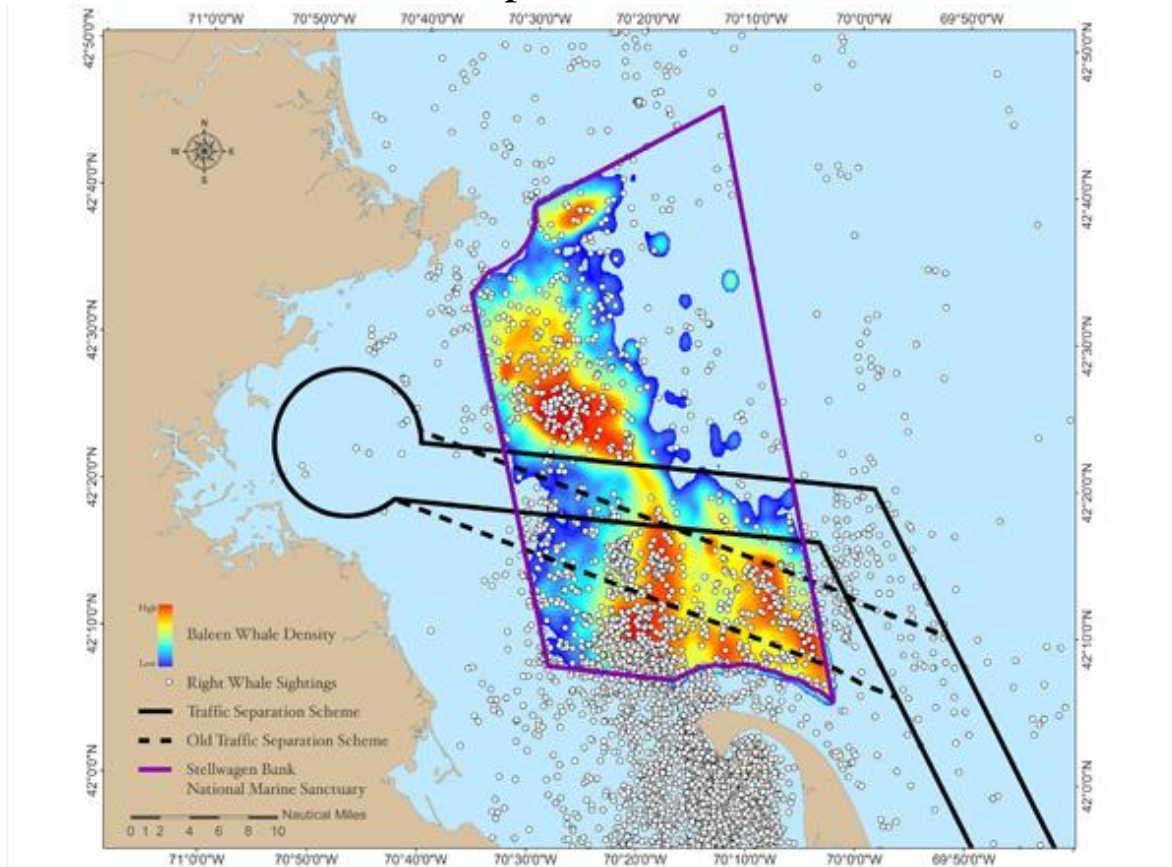


Figure 1: Proposed Traffic Separation Scheme & Whale Sightings Over 24 years

1. Name three (3) species of whale that can be found at Stellwagen Bank National Marine Sanctuary. (6 pts)
2. What are the two (2) pieces of legislation that protect the whales? (4 pts)
3. This traffic separation scheme is an example of marine spatial planning. List two (2) main goals of marine spatial planning. (2 pts)
4. List three (3) coastal activities that must be considered when developing a balanced marine spatial plan. (6 pts)
5. How might rotating the traffic scheme by 12 degrees, as proposed by NOAA (represented by the solid line in Figure 1), negatively impact the commercial shipping industry? (2 pts)