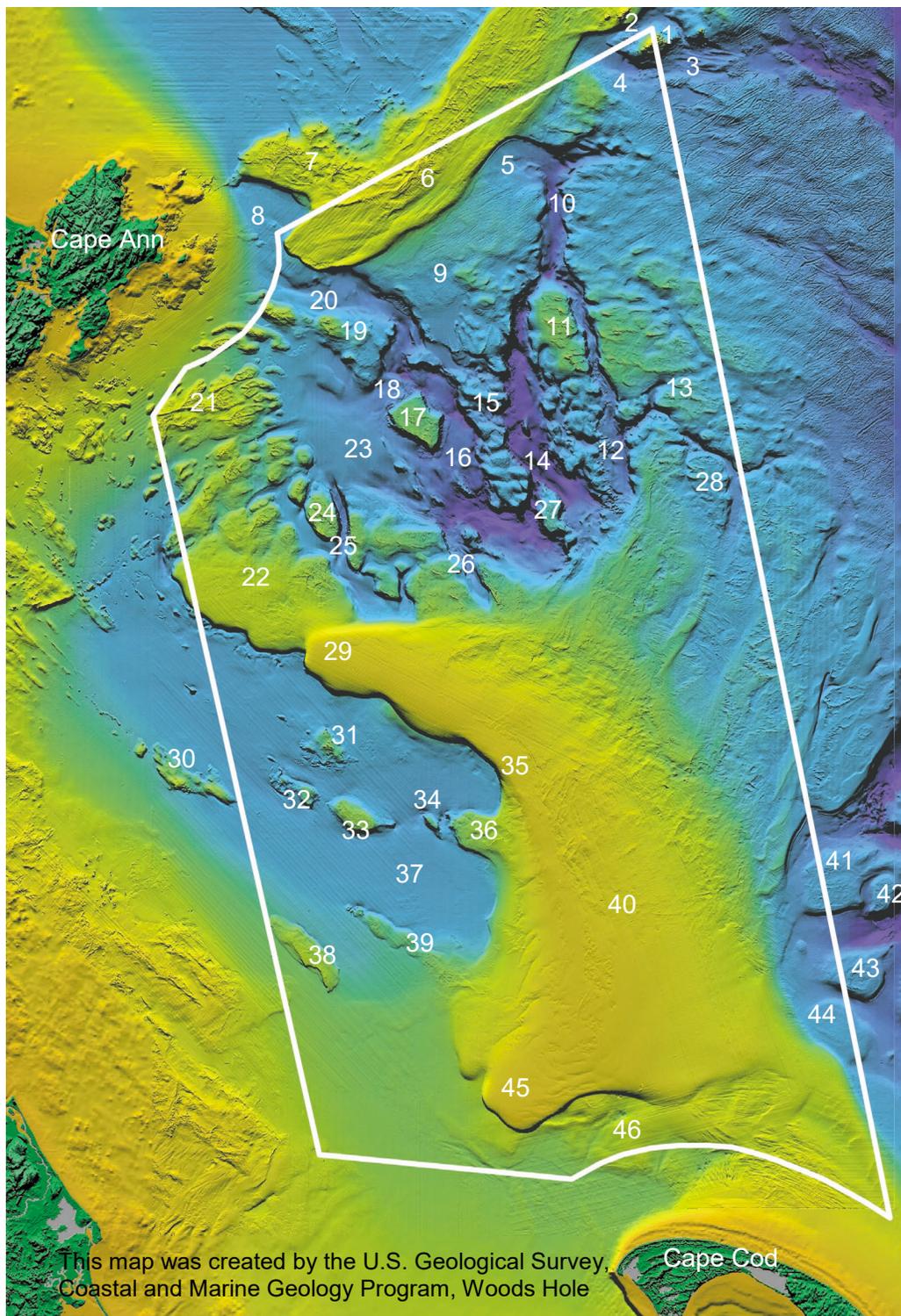


Stellwagen Sanctuary Geography Quiz

The sanctuary's seafloor has as varied a terrain as the nearby land. These underwater mountains, valleys and plains bear names, some historically well-established and others of more recent origin. Many of the newly sanctioned names were assigned through the efforts of the US Geological Survey, which undertook a detailed mapping project of the sanctuary region. See if you can match the seafloor features on this USGS image with their official names.



Match Seafloor Feature Names to Map Numbers

- _____ Compass Rose Bank
- _____ Creed Basin
- _____ Creed Ridge
- _____ East Breakwater Bank
- _____ East Ninety Bank
- _____ East Tillies Basin
- _____ Ellipse Bank
- _____ Fifteen Bank
- _____ First Basin
- _____ Gloucester Bank
- _____ Gloucester Basin
- _____ Jeffreys Ledge
- _____ Little Tillies Bank
- _____ Long Bank
- _____ Lower Jeffreys Ledge
- _____ Lower Stellwagen Bank
- _____ Middle Ninety Bank
- _____ North Ninety Bank
- _____ North Tillies Basin
- _____ Northern Valley
- _____ Northwester Corner
- _____ Pigeon Basin
- _____ Polygon Bank
- _____ Polygon Basin
- _____ Race Point Channel
- _____ The Rockpile
- _____ Rose & Lucys Basin
- _____ Salvages Basin
- _____ Sanctuary Basin
- _____ Sanctuary Hill
- _____ Scantum Spur
- _____ South Ninety Bank
- _____ Southwest Corner
- _____ Southwestern Spur
- _____ Stellwagen Bank
- _____ Stellwagen Basin
- _____ Stenos Basin
- _____ Thacher Bank
- _____ Thacher Basin
- _____ Tillies Bank
- _____ Triple Valley
- _____ W. Breakwater Bank
- _____ West Tillies Basin
- _____ Western Edge
- _____ Western Spur
- _____ Y Valley

This map was created by the U.S. Geological Survey, Coastal and Marine Geology Program, Woods Hole

Answers to Match the Feature Name to a Map Number

- 30 Compass Rose Bank
- 16 Creed Basin
- 15 Creed Ridge
- 33 East Breakwater Bank
- 42 East Ninety Bank
- 12 East Tillies Basin
- 24 Ellipse Bank
- 34 Fifteen Bank
- 5 First Basin
- 21 Gloucester Bank
- 23 Gloucester Basin
- 6 Jeffreys Ledge
- 27 Little Tillies Bank
- 38 Long Bank
- 9 Lower Jeffreys Ledge
- 22 Lower Stellwagen Bank
- 43 Middle Ninety Bank
- 41 North Ninety Bank
- 10 North Tillies Basin
- 26 Northern Valley
- 29 Northwester Corner
- 2 Pigeon Basin
- 17 Polygon Bank
- 18 Polygon Basin
- 46 Race Point Channel
- 31 The Rockpile
- 4 Rose and Lucys Basin
- 8 Salvages Basin
- 3 Sanctuary Basin
- 1 Sanctuary Hill
- 7 Scantum Spur
- 44 South Ninety Bank
- 45 Southwest Corner
- 39 Southwestern Spur
- 40 Stellwagen Bank
- 37 Stellwagen Basin
- 25 Stenos Basin
- 19 Thacher Bank
- 20 Thacher Basin
- 11 Tillies Bank
- 28 Triple Valley
- 32 West Breakwater Bank
- 14 West Tillies Basin
- 35 Western Edge
- 36 Western Spur
- 13 Y Valley

Answers in Numerical Order

- 1 Sanctuary Hill
- 2 Pigeon Basin
- 3 Sanctuary Basin
- 4 Rose and Lucys Basin
- 5 First Basin
- 6 Jeffreys Ledge
- 7 Scantum Spur
- 8 Salvages Basin
- 9 Lower Jeffreys Ledge
- 10 North Tillies Basin
- 11 Tillies Bank
- 12 East Tillies Basin
- 13 Y Valley
- 14 West Tillies Basin
- 15 Creed Ridge
- 16 Creed Basin
- 17 Polygon Bank
- 18 Polygon Basin
- 19 Thacher Bank
- 20 Thacher Basin
- 21 Gloucester Bank
- 22 Lower Stellwagen Bank
- 23 Gloucester Basin
- 24 Ellipse Bank
- 25 Stenos Basin
- 26 Northern Valley
- 27 Little Tillies Bank
- 28 Triple Valley
- 29 Northwester Corner
- 30 Compass Rose Bank
- 31 The Rockpile
- 32 West Breakwater Bank
- 33 East Breakwater Bank
- 34 Fifteen Bank
- 35 Western Edge
- 36 Western Spur
- 37 Stellwagen Basin
- 38 Long Bank
- 39 Southwestern Spur
- 40 Stellwagen Bank
- 41 North Ninety Bank
- 42 East Ninety Bank
- 43 Middle Ninety Bank
- 44 South Ninety Bank
- 45 Southwest Corner
- 46 Race Point Channel

Bonus Match Questions:

1. What are the two features that comprise "The Breakwater"?

2. What four features are known as the "Ninety Meter Banks"?

Historical Note: The striations in the seafloor in the northeast corner of the sanctuary and areas east and north of that were created by icebergs, calving off retreating glaciers at the end of the last Great Ice Age. Pushed by northeasterly winds, the icebergs gouged tracks in the sediments when they reached this more shallow area.

To learn more about sanctuary seafloor features, including their coordinates, size and shape, depth, steepness, discovery facts, and reason for the choice of name, visit the USGS website: <https://woodshole.er.usgs.gov/pubs/sim2840/HTML/GEONAMES.HTM>

This Stellwagen Bank National Marine Sanctuary Seafloor Feature Geography Activity was developed by the sanctuary education department, using data supplied by USGS. If reproducing this document, please credit NOAA/SBNMS and USGS; all materials are in the public domain.

Answers from above:

- 1. 32 & 33
- 2. 41, 42, 43 & 44