



## Spilhaus World Ocean Map in a Square

This water centric map helps shift our perspective. While water is usually sidelined in maps, the ocean makes up about 71 percent of the Earth's surface. Water holds 99 percent of all habitable space in the world, though humans have only explored 5 percent of the ocean. The Spilhaus World Ocean Map in a Square invites us to see the world's oceans as a single body of water and a connected system. The added bathymetric layer shows current measurements and estimations of all the oceans' hills, plateaus, valleys, ridges and canyons.

The Spilhaus World Ocean Map used in this project is originally based on a map projection by Athelstan F. Spilhaus, a South African-American geophysicist and oceanographer. The bathymetric layer is based on geologist and oceanographer Marie Tharp's groundbreaking work in global seabed mapping.

*Literature*

Nelson, J. (2021). Spilhaus World Ocean Map Vector Assets for Designers. Mapping [https://adventuresinmapping.com/2021/12/21/spilhaus-world-ocean-map-vector-assets-for-designers/]

Šavrić, B., Burrows, D., Kennedy, M. (2020). The Spilhaus World Ocean Map in a Square [https://storymaps.arcgis.com/stories/756bcae18d304a1eac140f19f4d5cb3d]

Spilhaus, A. (1991). *Atlas of the World with Geophysical Boundaries Showing Oceans, Continents and Tectonic Plates in Their Entirety*. Independence Square, Philadelphia: The American Philosophical Society.

Chen, J., Zhang, T., Tominaga, M. et al. (2023). Ocean Sciences with the Spilhaus Projection: A Seamless Ocean Map for Spatial Data Recognition. *Sci Data* 10, 410. <https://doi.org/10.1038/s41597-023-02309-6> Data records: <https://doi.org/10.6084/m9.figshare.2122975>

Becker, J. J. et al. (2009). Global Bathymetry and Elevation Data at 30 Arc Seconds Resolution: SRTM30\_PLUS. *Mar. Geod.* 32, 355–371.

Ferrini, V., Ryan, W., Carbotte, S., and O'Hara, S. (2020). Marie Tharp's Ongoing Legacy in Global Seabed Mapping Efforts, *EGU General Assembly 2020*, Online, 4–8 May 2020, EGU2020-11736, <https://doi.org/10.5194/egusphere-egu2020-11736>