



Marine Technology

Coastal Studies Institute uses a variety of unique technology to study the coastal environments. Scientific data is collected in aquatic environments like the ocean and estuaries in a variety of different ways. Data are collected from underwater, the ocean's surface and even from the air. CSI uses devices like buoys, underwater moorings and Remotely Operated Vehicles (ROVs) to collect information on shipwrecks, monitoring underwater equipment, and exploring new areas. Please visit <https://www.coastalstudiesinstitute.org/research/coastal-engineering/renewable-ocean-energy-project-overview/gulf-stream-power-assessment/>

and answer these short questions and try the ROV Pilot simulated game.

1. Describe one way that an underwater mooring is useful for collecting data.
2. What is the name of the equipment that is deployed in the Gulf Stream?
3. Coding is used to create computer software. How can coding be used in ocean exploration?
4. What is one reason we might use ROVs instead of sending a SCUBA diver?

At CSI we have used ROVs to explore the ocean. Please download and play this game which simulates being an ROV pilot in the deep sea:

<https://siogames.ucsd.edu/deep.php>

After playing the game, write a few sentences about what you think it would be like to explore the deep sea.