



University of  
St Andrews

**Berwickshire  
MARINE  
RESERVE**  
*Scotland's first voluntary marine reserve*

# Virtual Dive Simulator

By Lucas Balbach, supervised by Alan Miller

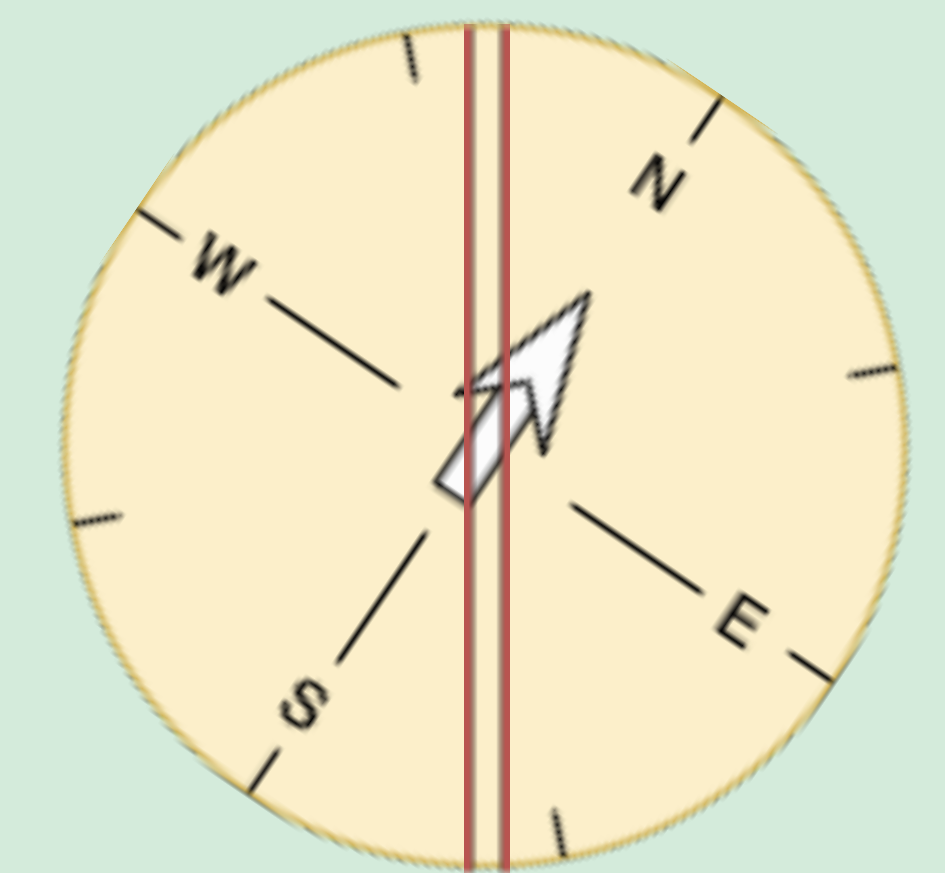
## The Simulator



Our dive simulator uses virtual reality to place the players in an immersive underwater experience. It hopes to make diving available to more people by breaking barriers such as cost and training. We have made the simulator free to download from our web page. Providing the simulator for free will help to boost interest in the topic and hopefully encourage more people to try the sport. Bringing in new divers will also draw more attention to protecting the oceans. Additionally, this project explored the idea of using virtual reality as a method for teaching. Our survey showed that most participants were able to learn something from using the simulator and found it to be fun and engaging.

## Instruments

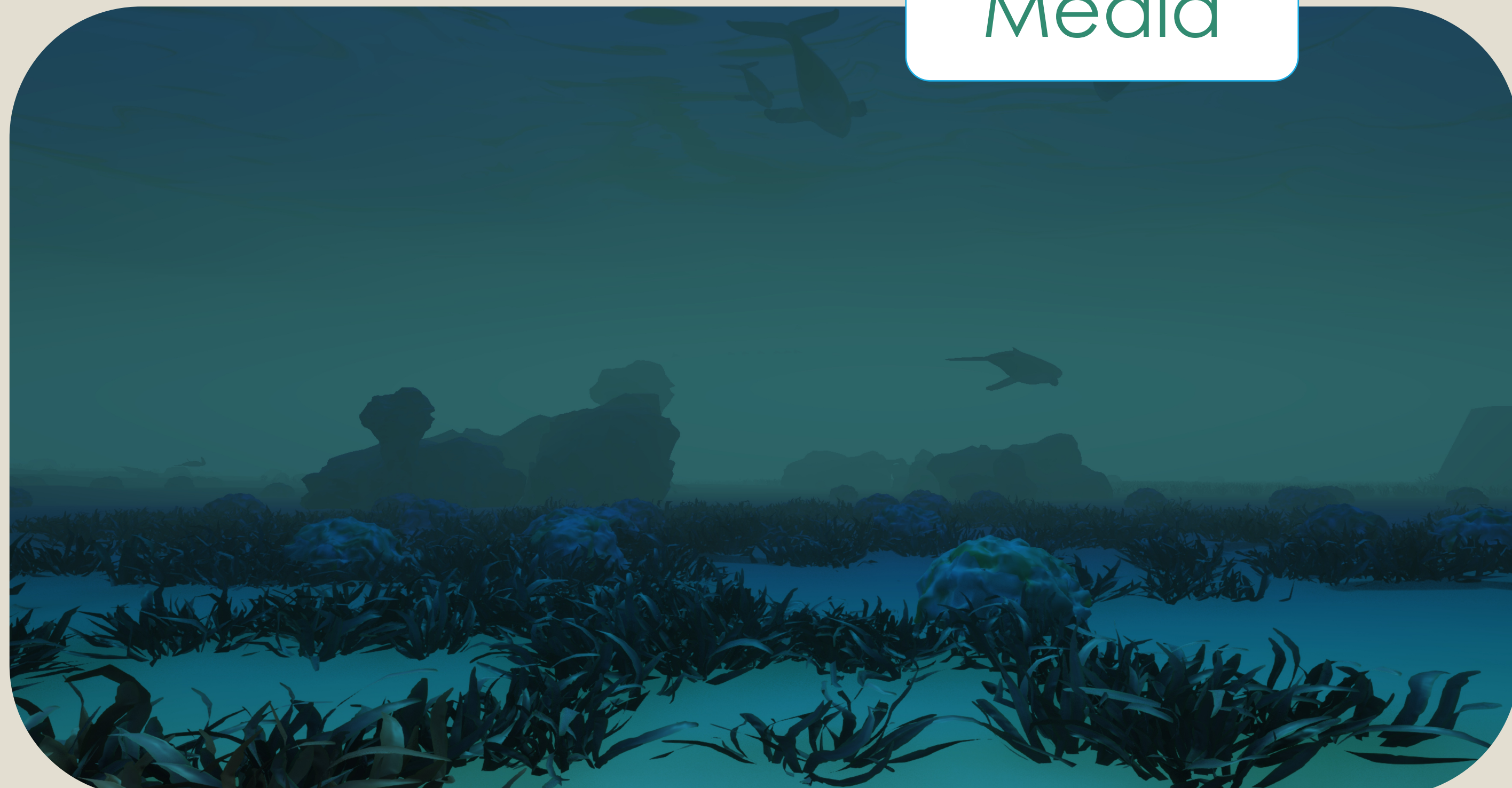
The simulator incorporates aspects from a real open water diver course from PADI. It uses functioning digital gauges such as depth and air pressure gauges.



## Website

A new page was created on the Berwickshire Marine Reserve's website to show off some of the media from the project such as high-definition images and YouTube videos of the simulator in action. The site also gives a game download.  
<https://www.berwickshiremarinereserve.uk/projects/diving-simulator/>

## Media



## Survey

