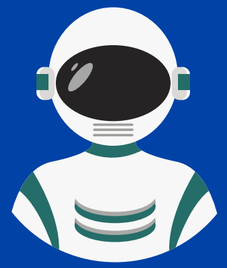
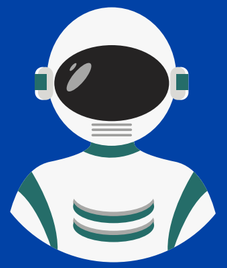
NASA SPACE APPS CHALLENGE

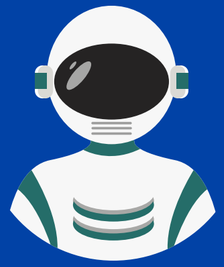
TEAM MOKUTON



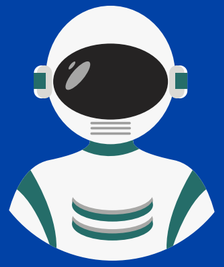
İLKAY SAMET ÖZTÜRK



EMİRHAN SERVEREN



FATMA NUR YOKUS



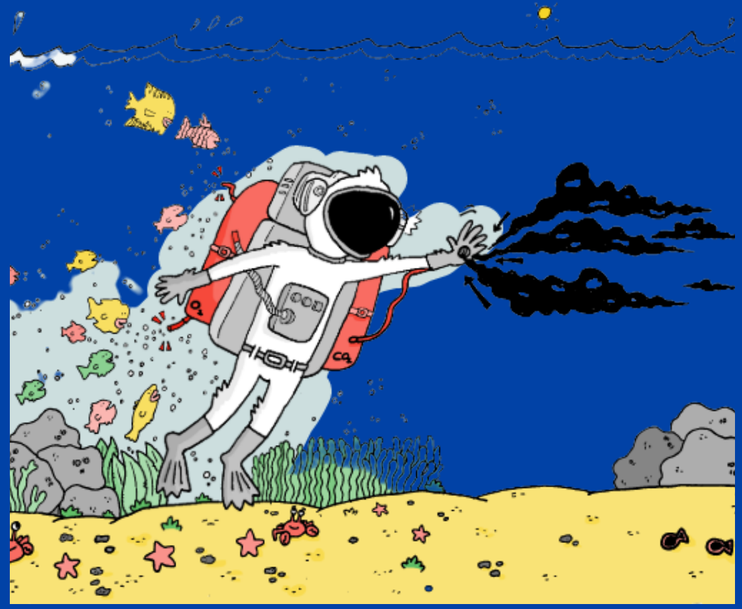
TAYFUN AKGÜÇ

Challenge : SuperpowEARTH

PROJECT : The Oceanaut

Inspired by the child in ourselves.

Ocean Acidification vs The OCEANAUT



If we don't stop ocean acidification, its impact on food webs and living organism will be enormous. If we want to slow down or stop climate change, then we have to take precautions about ocean acidification.

The OCEANAUT deals with the global problem of ocean acidification.

Heroes of NASA

There are a lot of heros and heroines at NASA, but the one we created is its first of a kind. It is an Ocean Astronout (Oceanaut).

What will the Oceanaut do ?

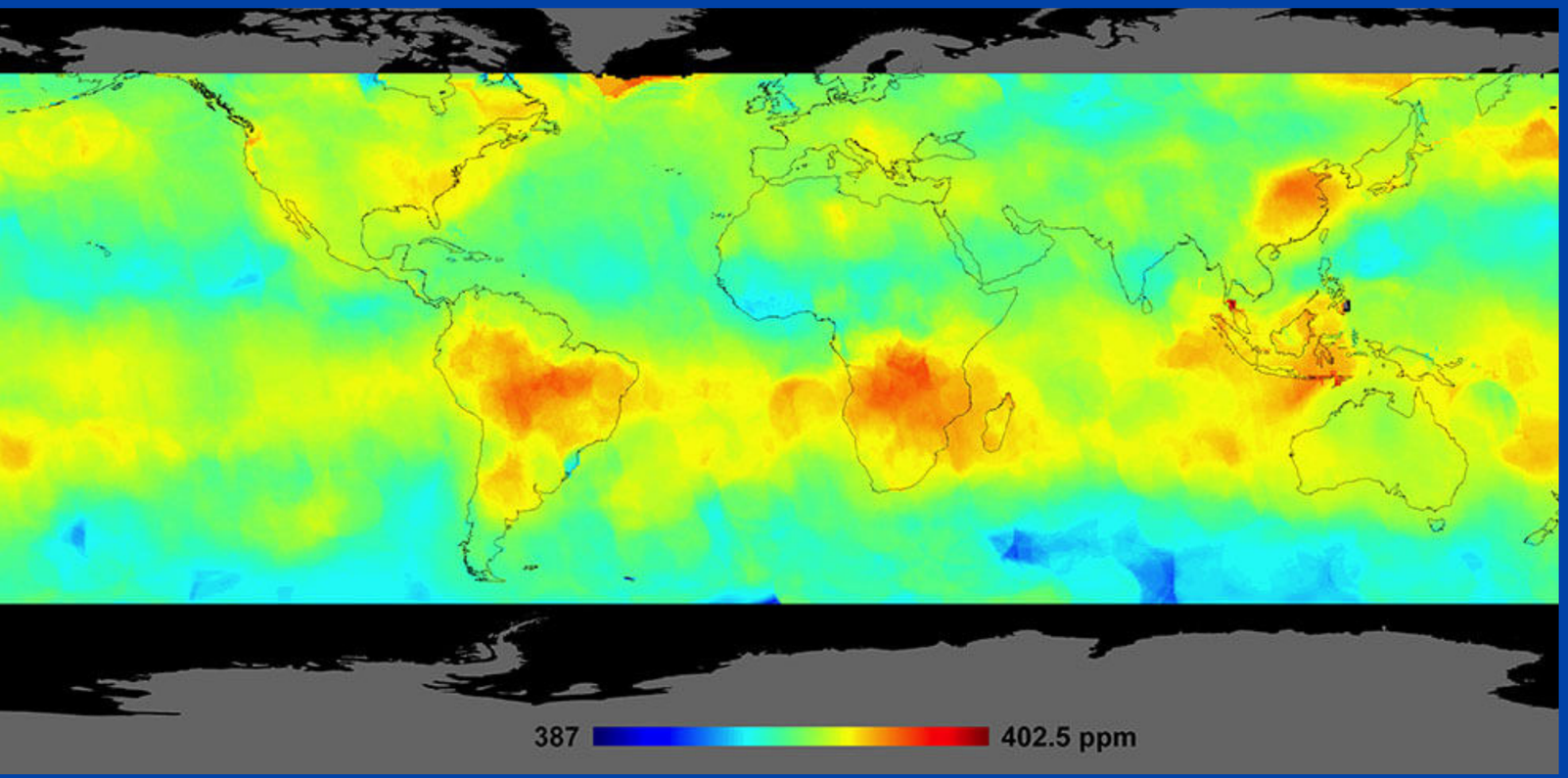
1

Ocean Astronout (Oceanaut) will reduce the level of acidification in oceans. It will take water in, filter rigtht amount of CO2 and separate it to its components O2 and Carbon with the help of machine learning algorithms.

2

It will use Carbon to produce its own energy so it will be autonomous. It will release oxygen into the water.

The Collaboration of NASA and Oceanaut



Collected by NASA's OCO-2 satellite.

The technology and data that NASA can provide is vital to create Oceanaut and to prioritize the regions to use Oceanaut for. Once Oceanaut comes into real life, then it will also help NASA with the continuous data that it will store.

What can Oceanaut do for the earth?

Ocean Acidification is so important because ocean acidification is one of the global issues of the earth. Oceans are the lungs of our planet.They are home to countless creatures. Water means life and life means water.Solving this problem helps to solve also "biodioversity loss", "climate change", "habitat destruction" and "water pollution"