

# NEWSLETTER

## EDUCO2CEAN #2

**EduCO<sub>2</sub>cean**  
Co-funded by the  
Erasmus+ Programme  
of the European Union

---

EduCO<sub>2</sub>cean is a new European project that aims to communicate the importance of the research on climate change and the ocean to the society, with special emphasis on the Atlantic and the Baltic Sea.

EduCO<sub>2</sub>cean is focused on the involvement of students from the European Union (13-17 years old), during the school years 2016/17 and 2017/18, in artistic and creative initiatives aiming to communicate climate change impact and to promote environmental awareness, to achieve a more sustainable ocean environment.

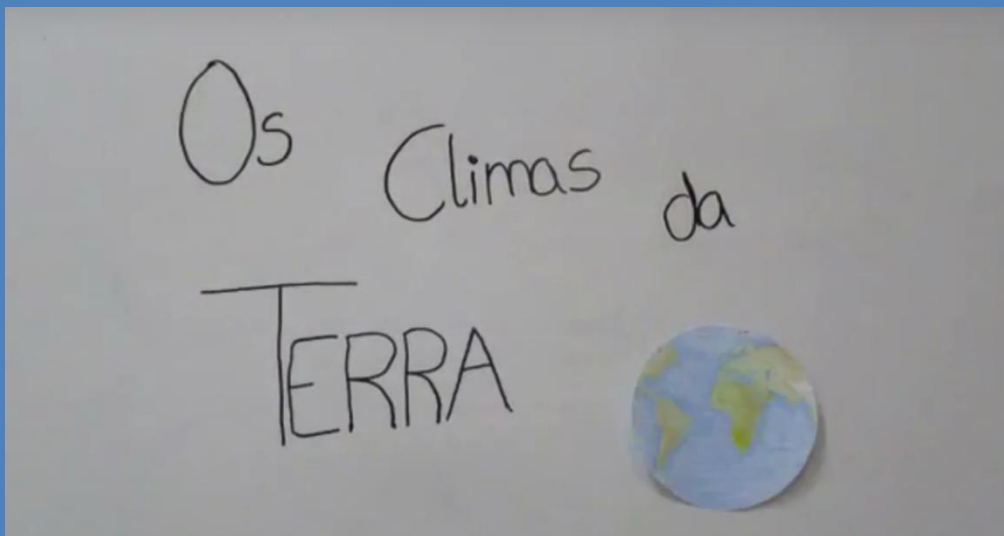
### EDUCO2CEAN NEWS

#### PARTNERS MEETING IN EDINBURGH, SCOTLAND



The second EduCO2cean meeting was held in Edinburgh last 29th and 30th of May. During the meeting the partners discussed the preparation of the teachers' seminar in the International Youth Camp, in Valsain, Spain, and the preparation of the teachers' training in Katowice, Poland.

## **STUDENTS FROM ALVES MARTINS HIGH SCHOOL, PORTUGAL, WIN SHORT-FILM COMPETITION**



The ASPEA 2017 short-film competition, dedicated to the theme of Oceans and Climate Change, has already winners. The first prize was awarded to the students Denilson Sousa, Filipa Esteves, Patrícia Soares and Tomás Sá, from the Alves Martins Secondary School, Viseu, with the short-film "Os Climats da Terra".

### **Prizes list:**

#### ***First Prize***

**Os Climats da Terra**, Alves Martins Secondary School, Viseu.

Students: Denilson Sousa, Filipa Esteves, Patrícia Soares, Tomás Sá.

#### ***Second Prize***

**Ecossistemas Marinhos e Alterações Climáticas**, Carlos Celestino Gomes Secondary School, Ílhavo.

Students: Nair Redende Cálão, Inês Filipa Sousa.

#### ***Third Prize***

**Planeta de Plástico**, Instituto Español Giner De Los Ríos, Lisbon.

Student: João Boto.

### ***First Honorable Mention***

**Renasce**, Carlos Celestino Gomes Secondary School, Ílhavo.

Students: João Esteves, Leandro Santos, Sara Godinho, Pedro Costa.

### ***Second Honorable Mention***

**Todos os Caminhos vão dar ao Mar**, Horta Vocational School, Faial.

Students: Adriano Matos, Bárbara Garcia.

## **EDUCO2CEAN PORTUGUESE SCHOOLS GATHERED FOR ANTI-PLASTIC DAY**



EduCO2cean teachers and students participated in a full-day anti-plastic event which started with the opening of the exhibition “An Ocean Free of Plastic”, in the Pavilion of Knowledge, Lisbon. The exhibition was developed by the National Aquarium Denmark and the non-governmental organization Plastic Change, with the support of the United States Department of State and the European Commission. The opening was followed by a talk about microplastics in marine environments and a debate about European strategies to promote a cleaner and sustainable ocean. Afterwards, all participants went to a beach where an anti-plastic picnic was settled, followed by a plastic cleaning of the beach sand.

## STUDENTS FROM SZRAMEK HIGH SCHOOL, POLAND, EMBRACE ENVIRONMENTAL CHALLENGES



Students from the Szramek High School, in Katowice, Poland, have taken on several challenges with the aim of minimising their ecological footprint and engaging their colleagues in the same mission. The challenges included a survey to evaluate students' awareness of CO<sub>2</sub> impact on the ocean, several environmental workshops, and development of a website, construction of a fish and shrimp tank and an ecological picnic with the cleaning of the area of the "Morawa" water body.

## OTHER NEWS

### FIRST UNITED NATIONS CONFERENCE ON THE OCEAN HELD IN NEW YORK





THE  
**OCEAN**  
**CONFERENCE**  
UNITED NATIONS, NEW YORK, 5-9 JUNE 2017

With more than 8000 participants, the first United Nations ocean conference was held from 5 to 9 June in New York. The Conference resulted in a formal adoption of the Call for Action “Our Ocean, Our Future” by 193 countries, stressing the need to implement Sustainable Development Goal 14 (Conserve and sustainably use the oceans, seas and marine resources for sustainable development) and to implement long-term and robust strategies to reduce the use of plastics and microplastics.

More information [here](#).

## NEXT EDUCO2CEAN EVENTS

6<sup>th</sup> to 8<sup>th</sup> of September 2017

### International Youth Camp in Spain

Hosted by the **National Centre for Environmental Education** (CENEAM), in Noia, Spain, the international youth camp is aimed at teachers and students. At least one teacher and one student from each EduCO2cean school will attend the youth camp, which will also include a teachers’ seminar.

## OTHER EVENTS

26<sup>th</sup> of June to 15<sup>th</sup> of September 2017

### Ciência Viva Internships Program for Secondary School Students

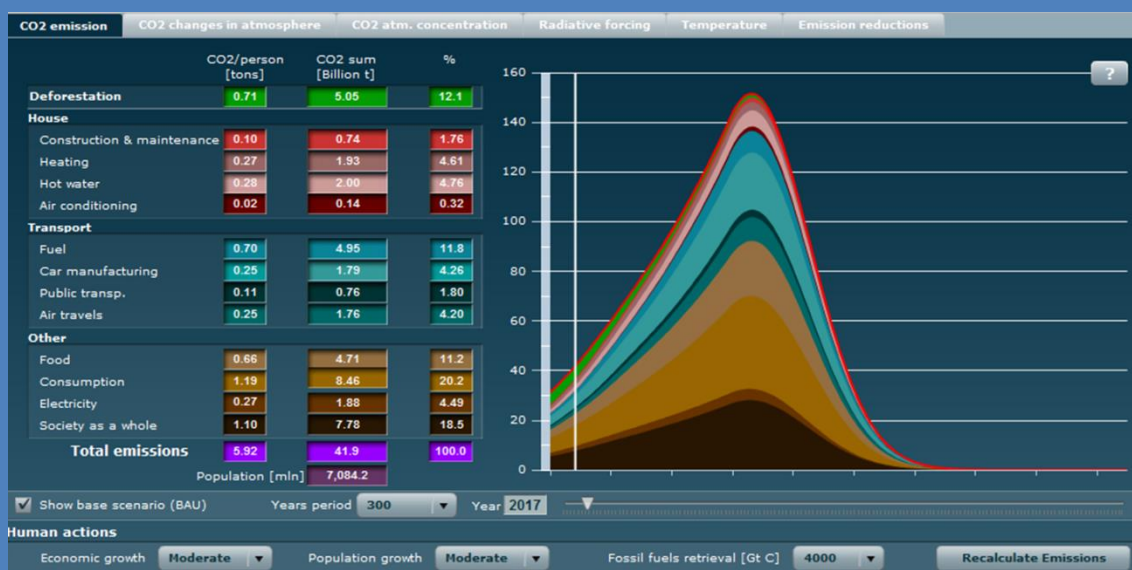


The Science for Young People in the Holidays program of Ciência Viva provides secondary school students with an opportunity to approach the reality of scientific and technological research. This initiative has already involved more than 14,000 students who have attended scientific internships in laboratories of institutions all over the country.

You can find more information of the activities [here](#).

## RESOURCES - ACTIVITIES

### CLIMATE CHANGE SIMULATOR



This online simulator is based on the results of modelling conducted by research teams of IPCC, NASA, NOAA and British Royal Society. Through the simulator, it is possible to understand the relationship between human activities and CO<sub>2</sub> emissions, as well as the dynamics of CO<sub>2</sub> emissions and absorption.

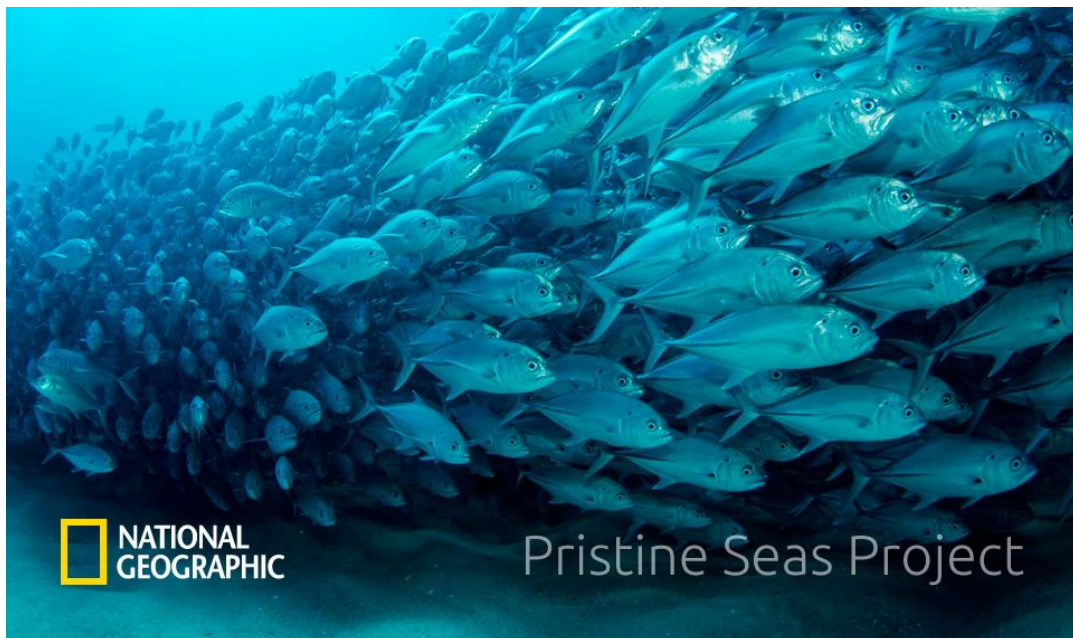
More information and the simulator can be found [here](#).

## RESOURCES - GOOD READS

### RIISING SEA TEMPERATURES AND ECOTOXICOLOGY: ARE WE PREPARED?

Read [here](#) the full article written by the researcher Mark GJ Hartl, from the Centre for Marine Biodiversity and Biotechnology, in Edinburgh, Scotland, about the importance of using biomarkers to assess marine ecotoxicology linked to rising sea temperature.

### NATIONAL GEOGRAPHIC PRISTINE SEAS: SEA TEMPERATURE RISE



Scientific research is finding that even a slight increase in sea temperature leads to drastic changes in marine ecosystems. Read [here](#) the full article, published by the Pristine Seas project. Pristine Seas was launched by National Geographic Explorer-in-Residence Enric Sala, aimed at protecting 20 of the Ocean's Wildest Places by 2020. Get to know more about this project [here](#).

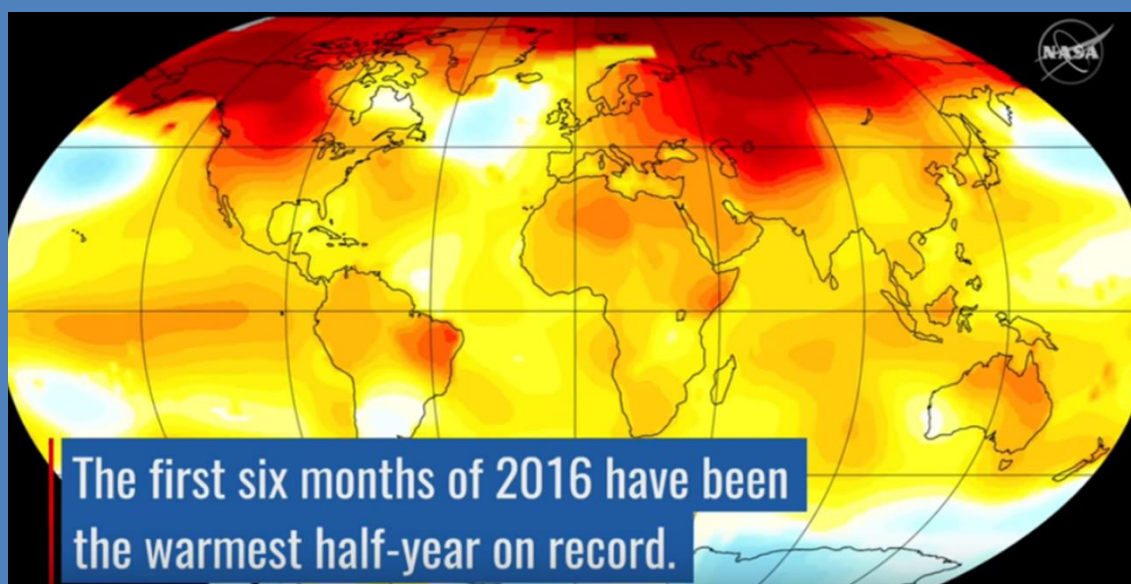
### AMPLIFICATION OF 2°C OCEAN WARMING

A scientific paper about the effect of rising sea temperature on coral reefs was published in Nature last March. The authors of the paper highlight the risks to coral reef ecosystems of 2 °C ocean warming, with devastating consequences.

Read [here](#) the full article.

# RESOURCES - VIDEOS

## CLIMATE TRENDS 2016



NASA's ground-based observations and satellite data show that two key climate change indicators - global surface temperatures and Arctic sea ice extent - have broken numerous records through the first half of 2016.

More information and the video [here](#).

---

### NEWSLETTER EDUCO2CEAN Coordenation

**ASPEA - Associação Portuguesa de Educação Ambiental**  
E-mail: [aveiro@aspea.org](mailto:aveiro@aspea.org)  
Phone: (351) 234 092 847  
[www.aspea.org](http://www.aspea.org)

**Ciência Viva – Agência Nacional para a Cultura Científica e Tecnológica**  
E-mail: [info@cienciaviva.pt](mailto:info@cienciaviva.pt)  
Phone: (351) 21 891 71 00  
[www.cienciaviva.pt](http://www.cienciaviva.pt)

