

EU4OCEAN &
SCIENTIX WEBINAR

Unlocking Ocean Literacy and European Blue Schools

28.11.2023.



#EU4Ocean
#Youth4Ocean
#EUBlueSchools



Agenda

- ☐ Welcome by Irene Pateraki, EUN
- ☐ Network of European Blue Schools, by Evy Copejans & Dominika Wojcieszek
- ☐ Shape your future. Little waves make a big ocean, by Ana Norohna
- ☐ We are Blue Schools, by Christian Esteva Burgos
- ☐ Closure by Irene Pateraki, EUN



#EU4Ocean
#Youth4Ocean
#EUBlueSchools



Evy Copejans
Dominika Wojciezek

EMSEA

European Marine Science Educators Association



Network of
European
Blue Schools

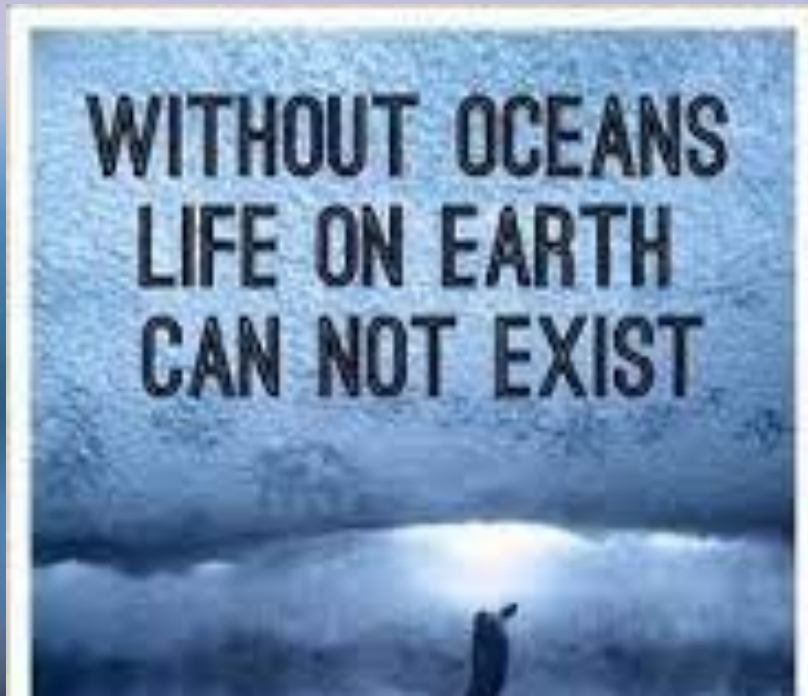
Network of European Blue Schools

an initiative by EU4Ocean Coalition
DG MARE/CINEA

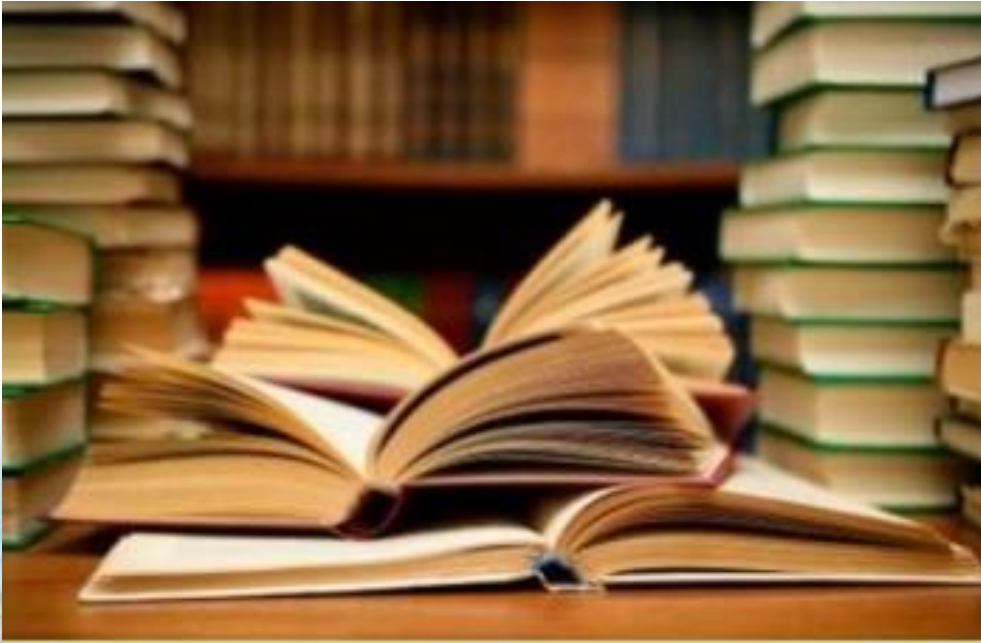


#EUBLUESCHOOLS

Why do we need to
learn about the ocean
and seas?



The ocean in formal education



Study of school curricula in Portugal, Belgium, France, Germany, United Kingdom, Finland, Romania, Greece and Croatia, EUN (2020)

Ocean blindness

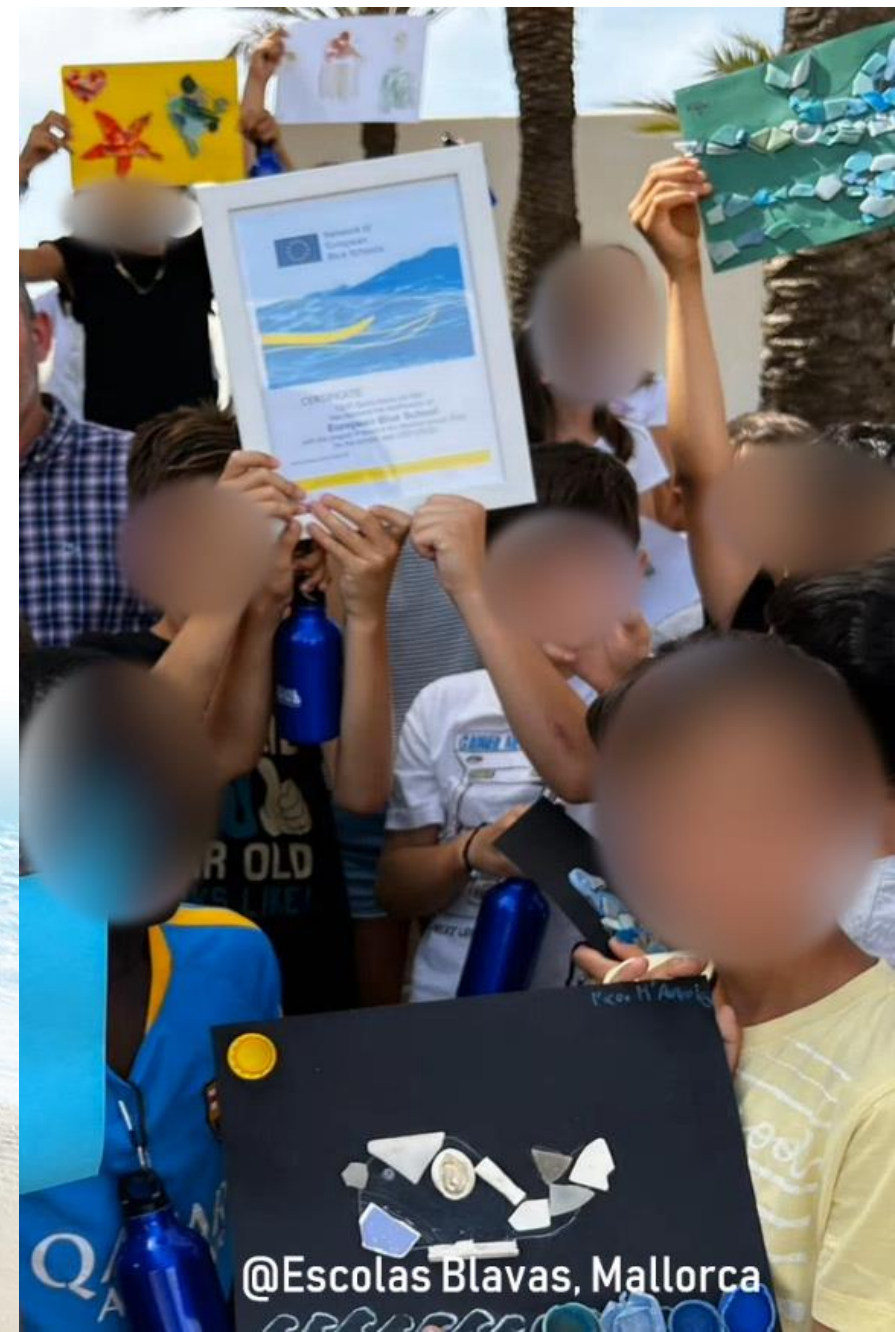


“Can we be science literate without being ocean literate?”

EU Blue Schools

**Bring the ocean
into the classroom
all ages – countries – regions**

In a European Blue School,
teachers help students
to increase their understanding
of the ocean, the issues it is facing,
and the opportunities it offers.



Foundations of EU Blue Schools

// 1. Project-Based Learning

Real-life learning

Active learning

21ST century skills

2. Open Schooling

School ecosystem

Blue careers



3. Agents of change

Education for Sustainable Development

Think global, act local

Examples of blue school projects



Boat building (PT)



Fishwaste product development (FR)



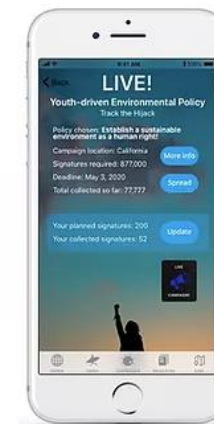
Making biofuel from algae on the beach (RO)



Learning native language from elderly people (CR)



Campaigning (AU)



Watersports and ocean culture (ES)



Connecting classrooms



International collaboration between schools
-cultural exchange: peer-to-peer exchanges
-being part of the European Network and
contributing to the European and global mission



Clair de Lune

from "Suite Bergamasque" L. 75

Claude Debussy
(1862–1918)

Andante très expressif 3rd Movement

Piano *pp con sordina*

4

8

12

Tempo rubato

15

pp *m.g.*

I pledge to change my students' mindset about Ocean Conservation, spread the word, make them real changemakers and empower youth voices, because no action is too small. Let's Make a Wave of Change! #TogetherWeAreStronger

Manuela Valentim Teixeira, Teacher

#MakeEUBlue

“Success is the sum of small efforts — repeated day in and day out”

#EUBLUESCHOOLS

Thank you

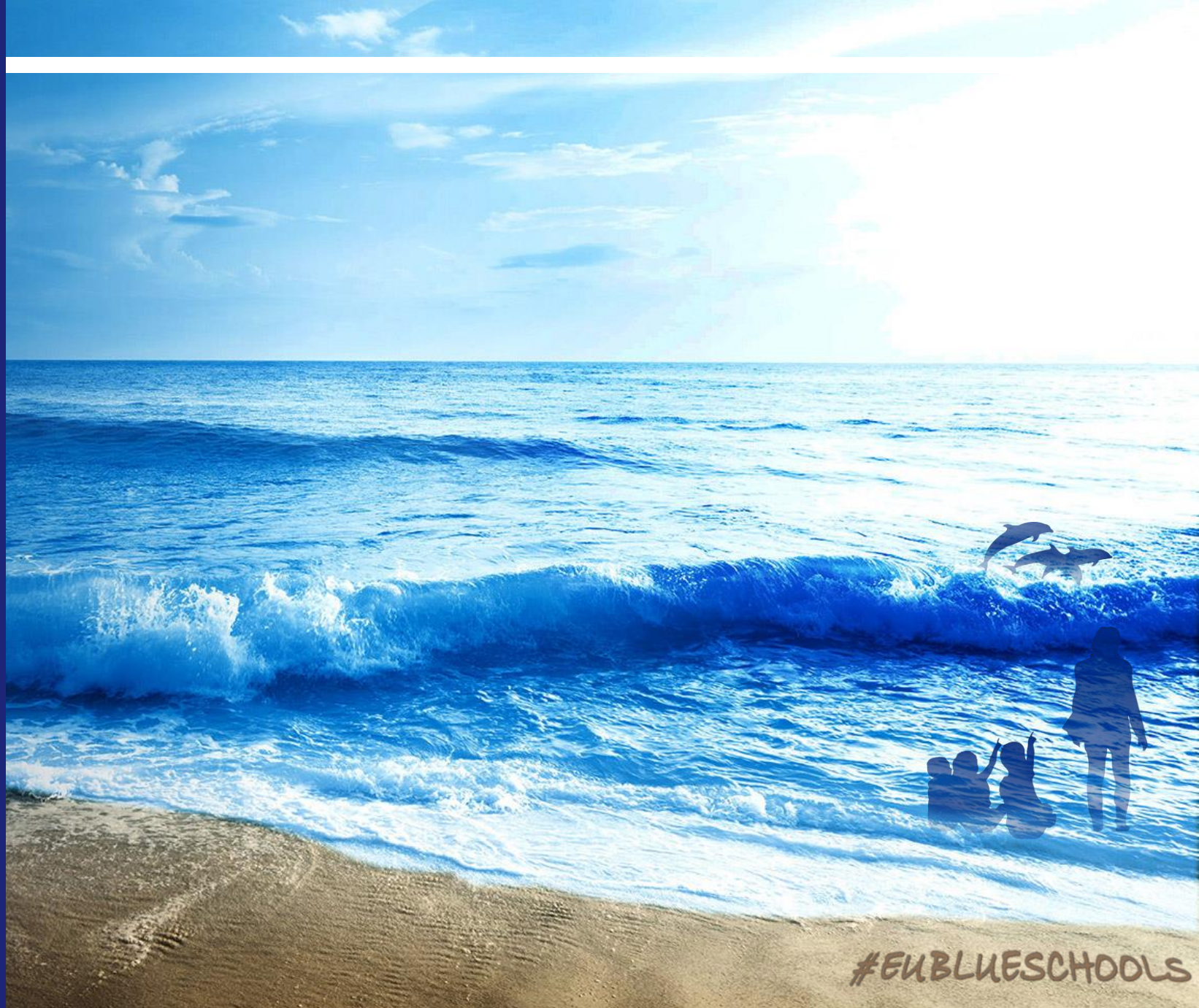
Evy Copejans

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CIÊNCIA VIVA


EMSEA
EUROPEAN MARINE SCIENCE EDUCATORS ASSOCIATION

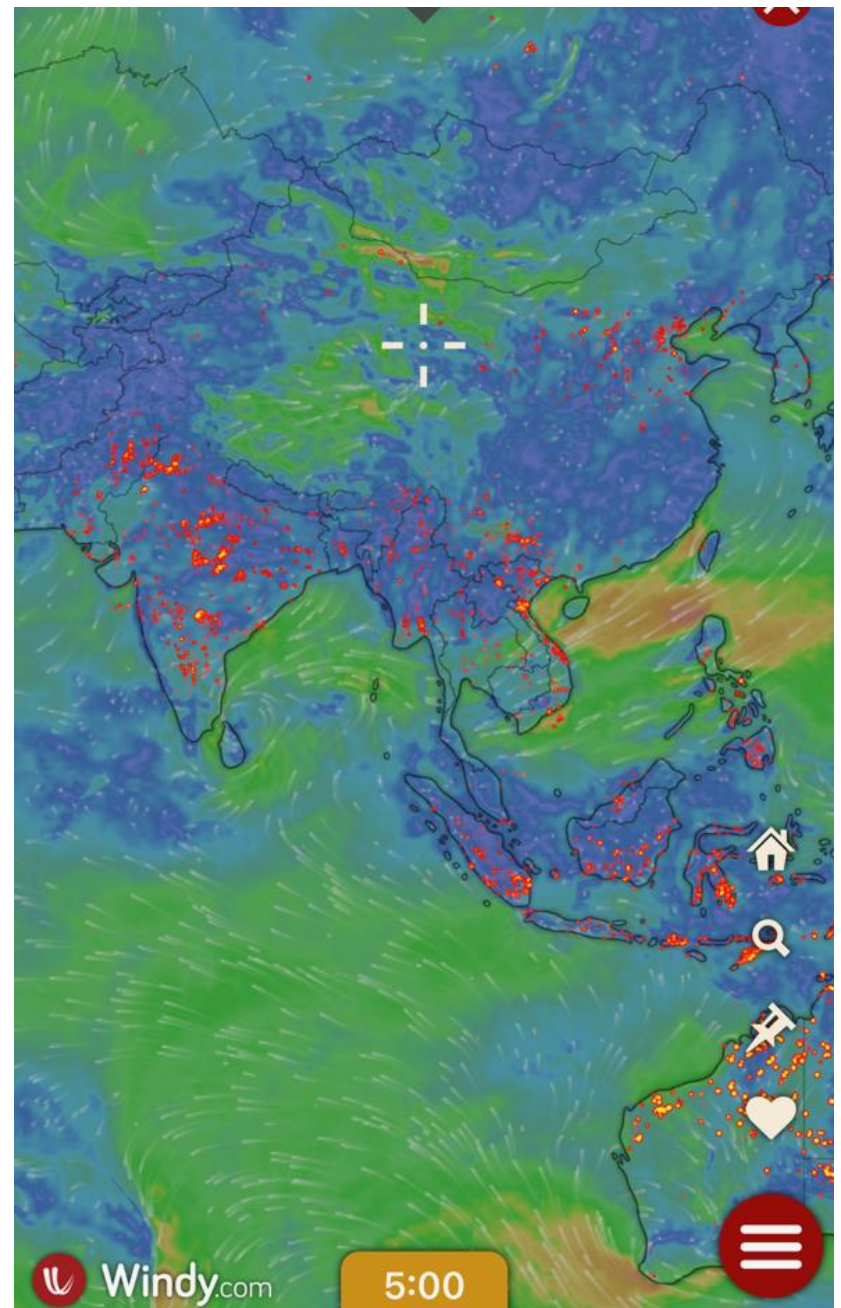
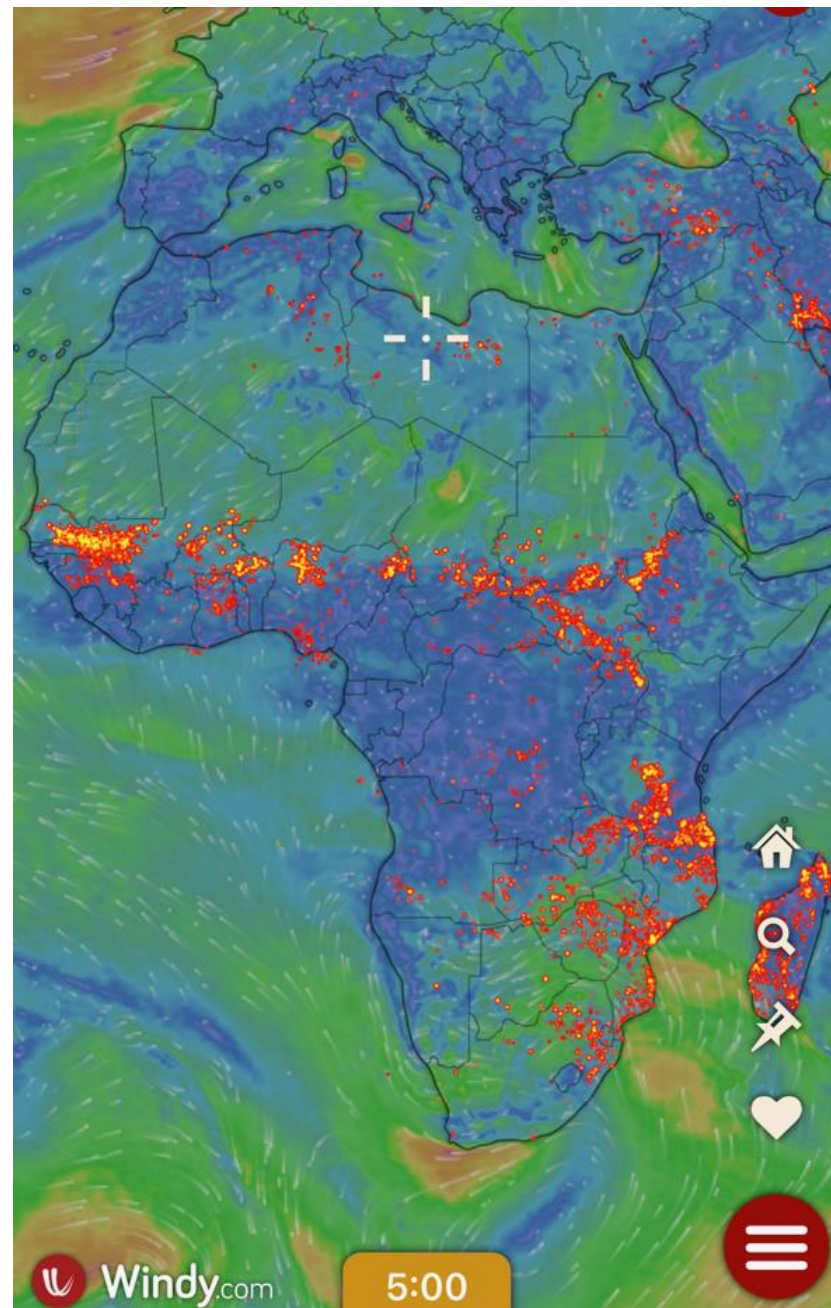
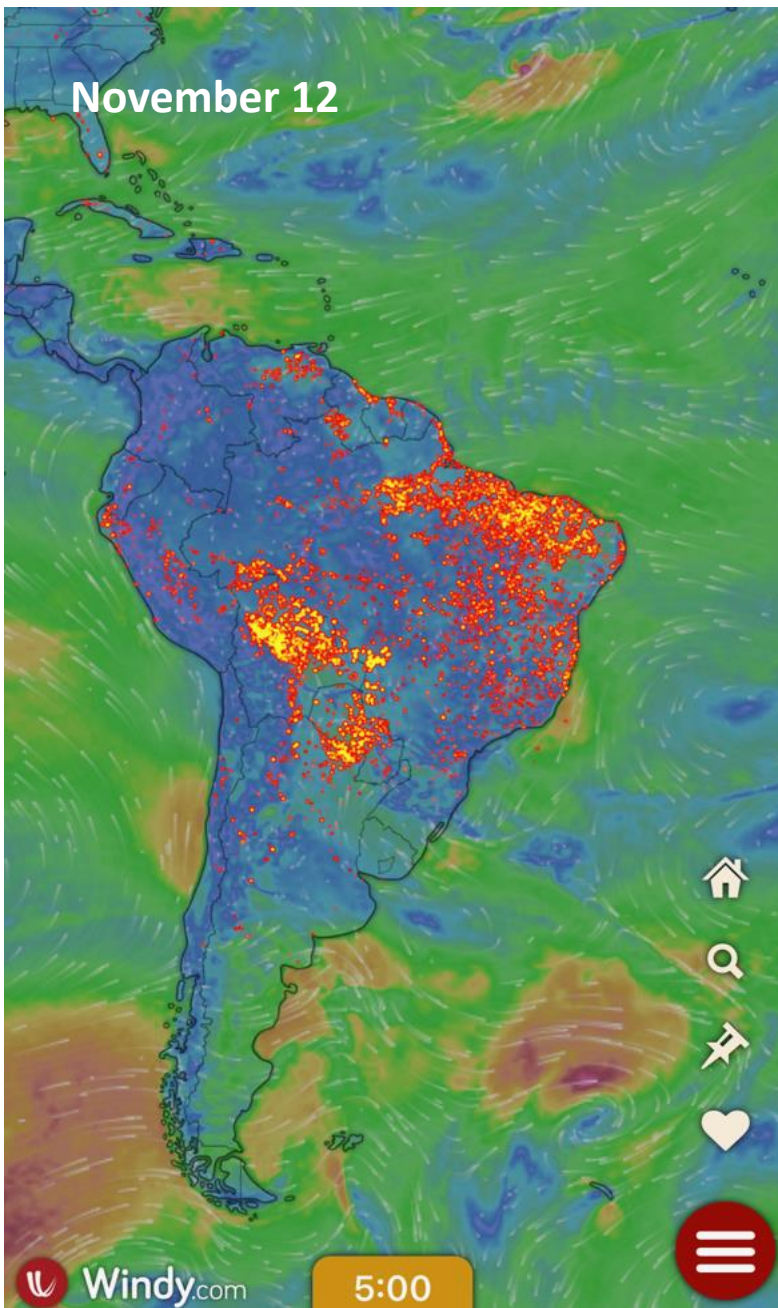
NO WATER NO LIFE

NO BLUE NO GREEN

Sylvia Earle



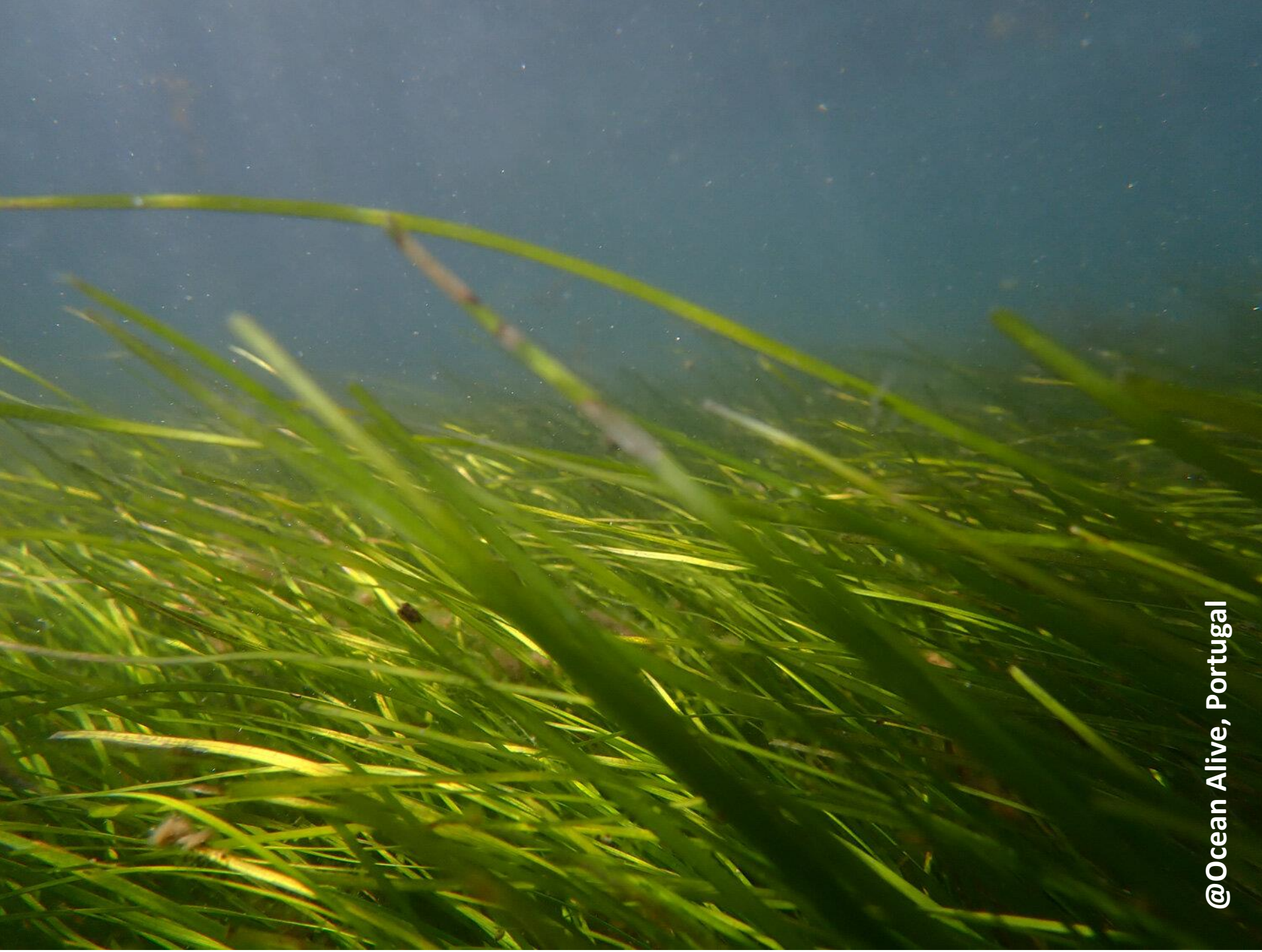
November 12





@NOAA

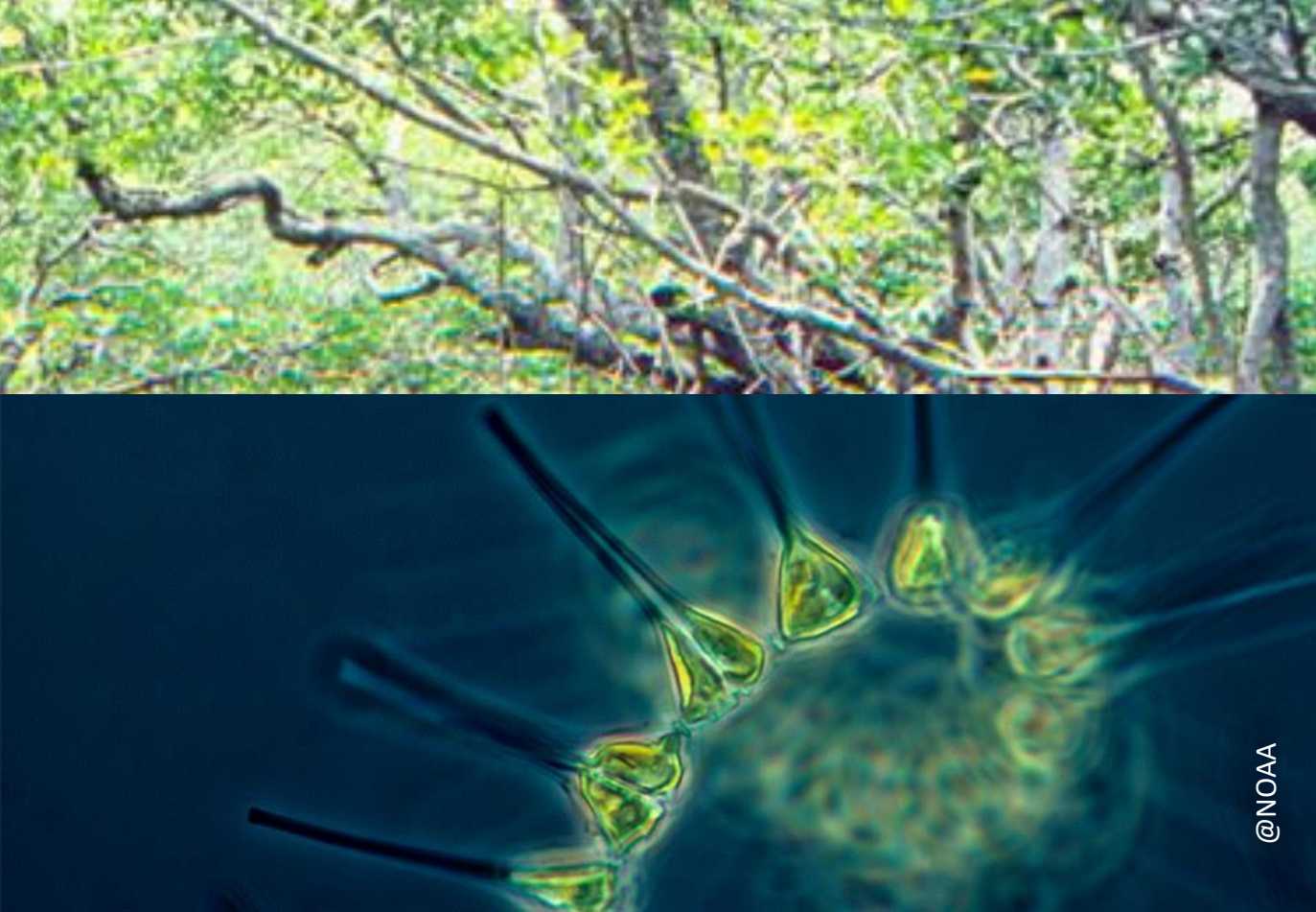
Blue Forests!

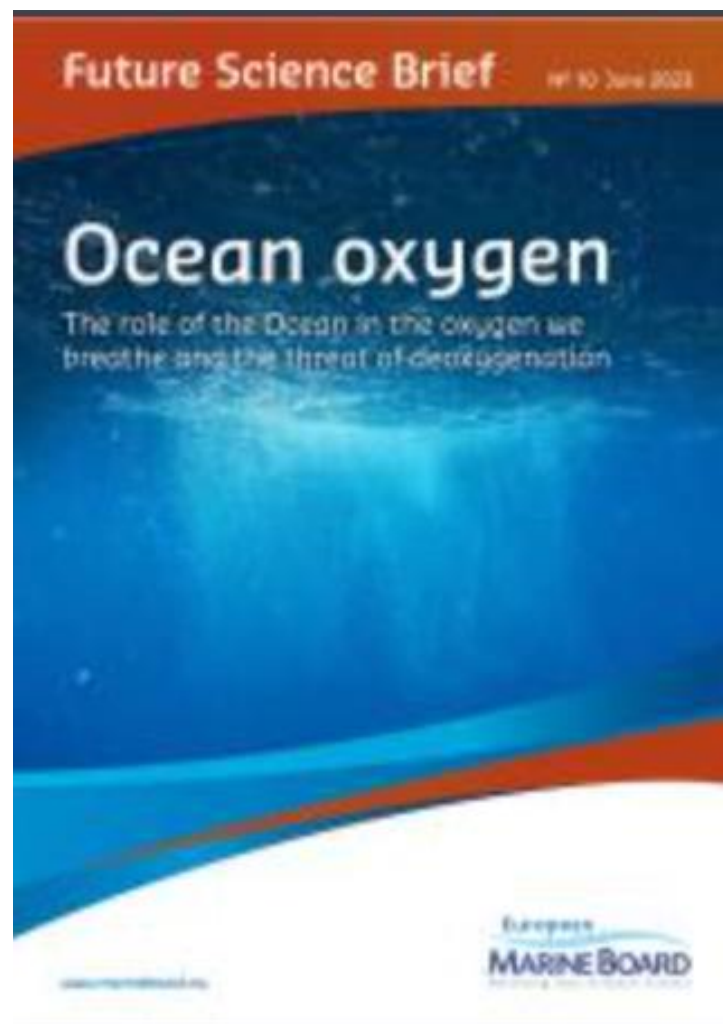


@Ocean Alive, Portugal



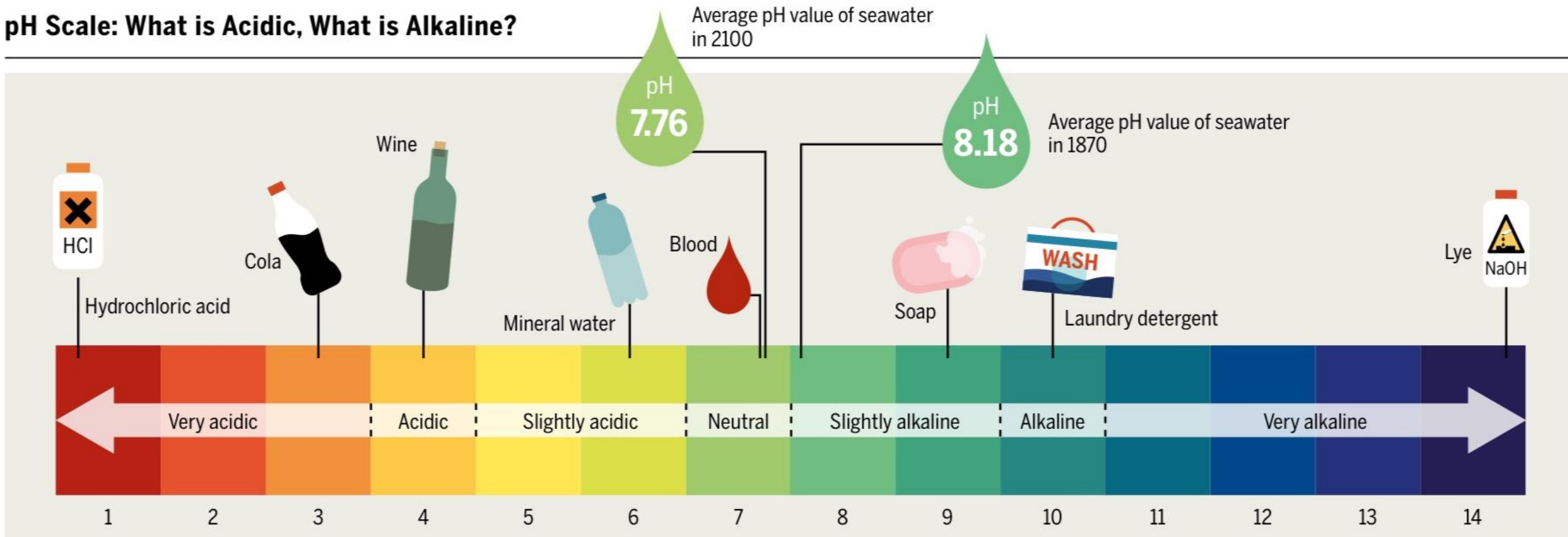






European Marine Board, June 2023 and October 2023

pH Scale: What is Acidic, What is Alkaline?



The difference may seem small, but the decline in the pH value from 1870 to 2100 would mean a 170 percent increase in acidity. Much smaller changes already pose problems for many sea creatures.

→ SEA LEVEL



1 HOW DO WE MEASURE IT?

Since the early **1990s**, satellite altimeters have revolutionised our understanding of sea-level rise



Accelerated to
4.8 mm/year

Almost 5 cm in 10 years...

Global sea level
acceleration

1993
2018

3.2
mm/yr

2013
2018

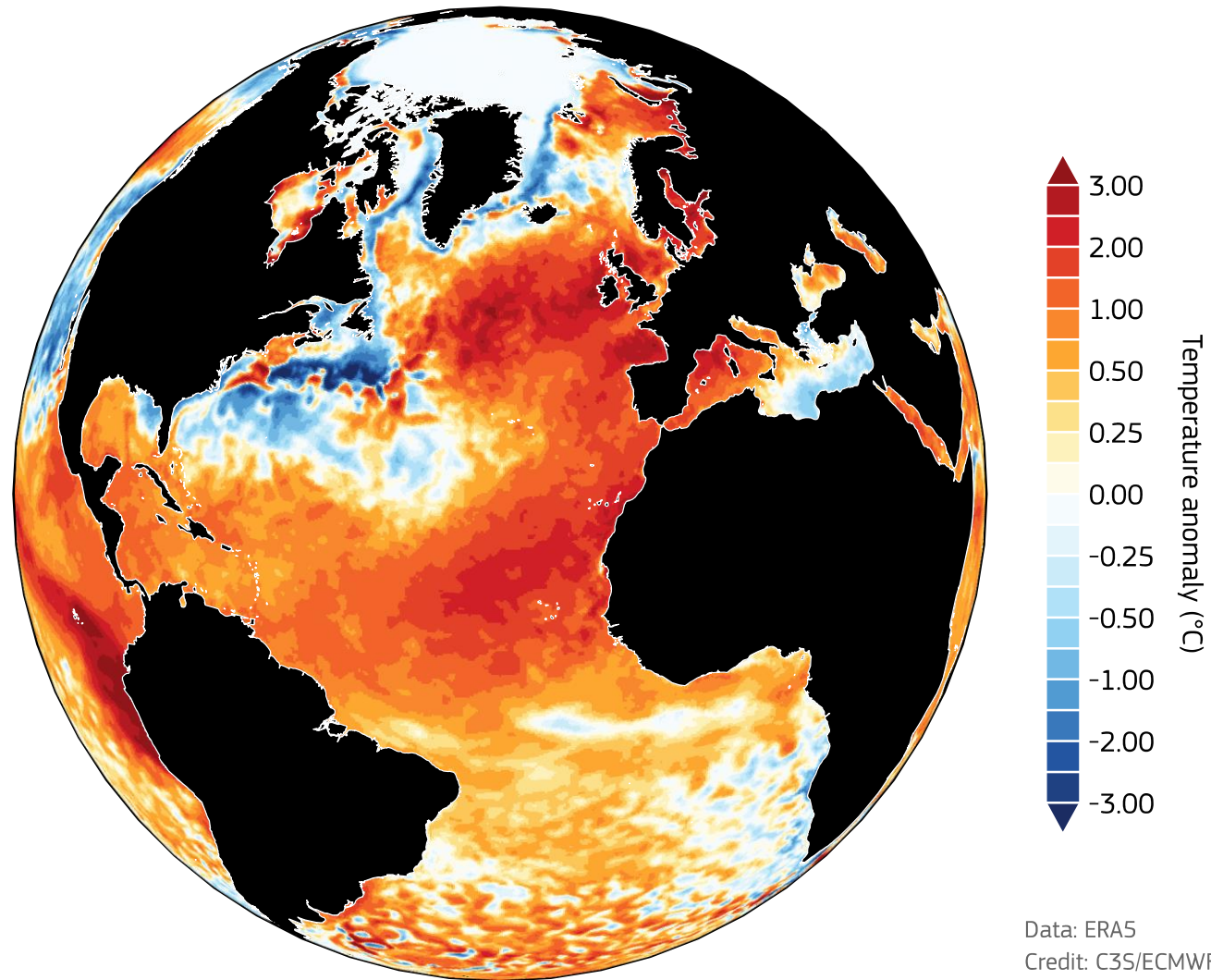
4.8
mm/yr

Sea level has not only risen over the last 25 years, but the rate at which it is rising is getting faster



SEA SURFACE TEMPERATURE ANOMALY • JUNE 2023

relative to June average for 1991–2020



PROGRAMME OF
THE EUROPEAN UNION



World Oceans Day x kelp forest - Googl x magroves noa - Gc x EMB_FSB10_Ocea x AP UN chief visits Ant x (18) GL

apnews.com/article/cop-guterres-antarctica-climate-change-efb31afe790523e2a79aff49a4f78d9c

New Tab The California Inst... Bookmarks Ciência Viva - Pág... Doodle: Poll created NERRI Projects intranet.cienciaviv... João


EVEN WHE
SUPPORT

AP WORLD U.S. POLITICS SPORTS ENTERTAINMENT BUSINESS SCIENCE FACT CHECK ODDITIES HEALTH VIDEO CLIMATE

Israel-Hamas exchange George Santos comments Derek Chauvin College football gameday Rainbow Bric

CLIMATE

'We absolutely need to act immediately,' says UN chief during visit to Antarctica ahead of COP28



Guterres said intense action must be taken at COP28, where countries will address their commitments to lowering emissions of planet-warming gases.

More Videos

What happens in Antarctica does not stay in Antarctica

Antonio Guterres

APNEWS.COM

BY ISABELLA O'MALLEY AND
ALEXANDRE PLAZA

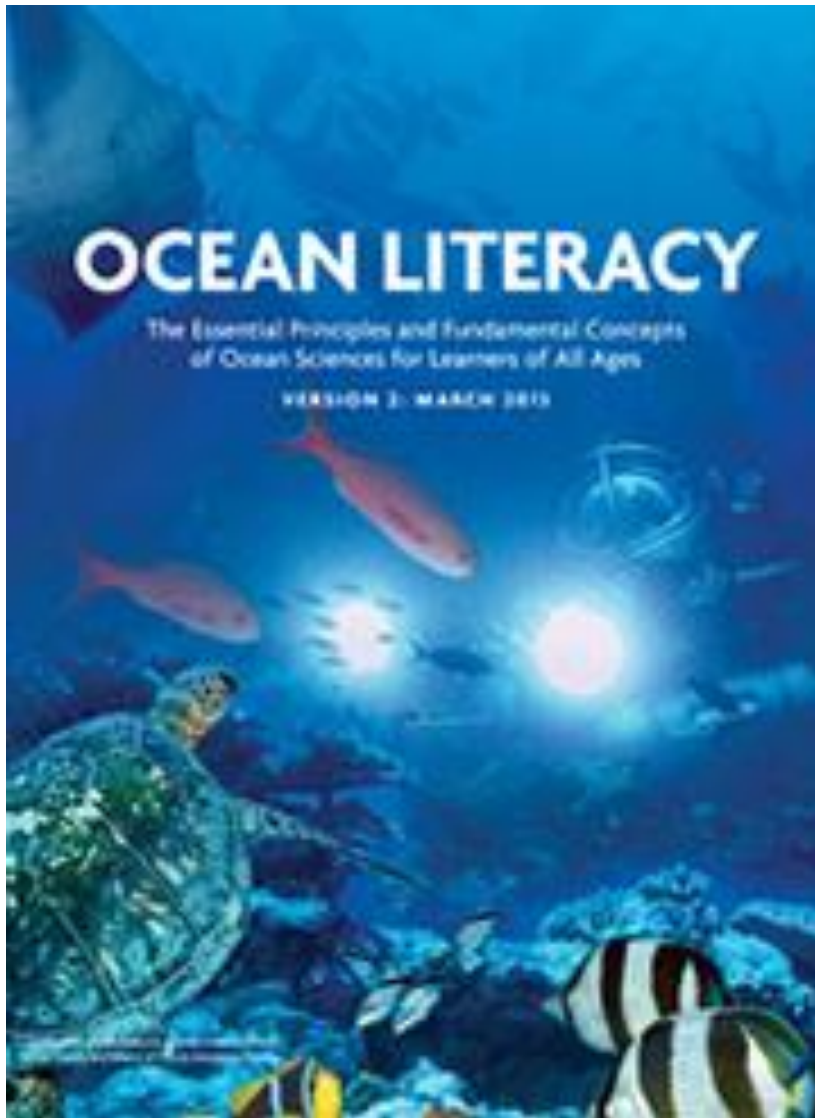
Updated 11:41 PM WET,
November 24, 2023



Humanity counts on the ocean.
But can the ocean count on us?

We should be the ocean's best
friends but right now humanity is
its worst enemy.

António Guterres
United Nations Secretary General



North American institutions
(2003 – 2010)



Portugal, Europe 2011

1st Ocean Conference 2017

Second Revised draft, 8 May 2017

OUR OCEAN, OUR FUTURE: CALL FOR ACTION

1. We, the Heads of State and Government and high-level representatives, meeting in New York from 5 to 9 June 2017 at the United Nations Conference to Support the Implementation of Sustainable Development Goal 14 of the 2030 Agenda, with the full participation of civil society and other relevant stakeholders, affirm our strong commitment to conserve and sustainably use our oceans, seas and marine resources for sustainable development.

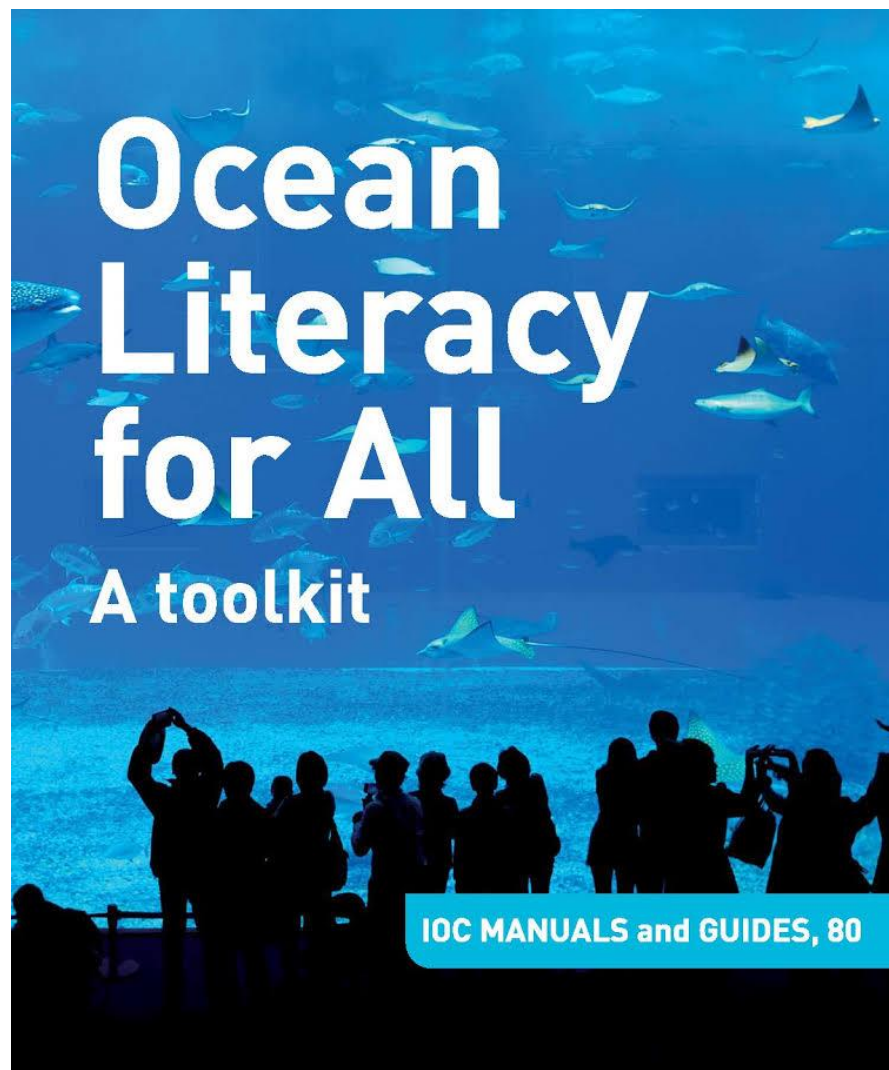
2. We are mobilised by a strong conviction that our ocean is critical to our shared future and common humanity in all its diversity. As leaders and representatives of our Governments, we are determined to act decisively and urgently, convinced that our collective action will make a meaningful difference to our people.

Ocean Literacy for All : Sustaining SDG 14 Goals Through Ocean Science Education and Ocean Literacy

June 6
5 - 6:30 PM
ROOM CRA

The focus of the *Ocean Literacy for ALL* Side Event is to further develop a global partnership to raise awareness on conservation and sustainable use of our ocean and its resources to bring about positive change in peoples' attitudes about our global ocean.

COSEE



Regional
Bureau
for Science
and Culture
in Europe



Intergovernmental
Oceanographic
Commission



Sustainable
Development
Goals

The Science We Need for the Ocean We Want



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



OCEAN
LITERACY
WITH ALL

Galway Statement, May 2013



“... promote our citizens’ understanding of the value of the Atlantic by promoting oceans literacy.”

Belém Statement, July 2017



“Ocean engaged citizens through enhanced ocean literacy initiatives”



All-Atlantic Ocean Research and Innovation Alliance (AAORIA) Declaration 2022

“Promoting ocean literacy and broadening engagement in ocean sciences and ocean sustainability.”



RAQUEL LORENZ COSTA

Portugal



RONALDO CHRISTOFOLETTI

Brazil



GUADALUPE DÍAZ COSTANZO

Argentina



15 countries

allatlanticblueschools.com

Started 2021

A message from the All-Atlantic Blue Schools Ambassadors



OCEAN-CLIMATE



0:08 / 2:56



Children as active players in their education



Build capacity and empower teachers



Engage with scientists



Engage with the community



Group of Schools
Gafanha da Encarnação
Ílhavo, Portugal



Engage with artists



Protection of seahorses
EB 2,3 João da Rosa,
Olhão, Portugal

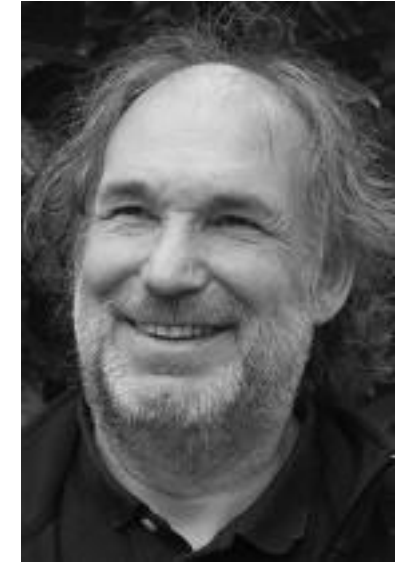


Engage with the Blue Economy



Slow Hope: Rethinking Ecologies of Crisis and Fear

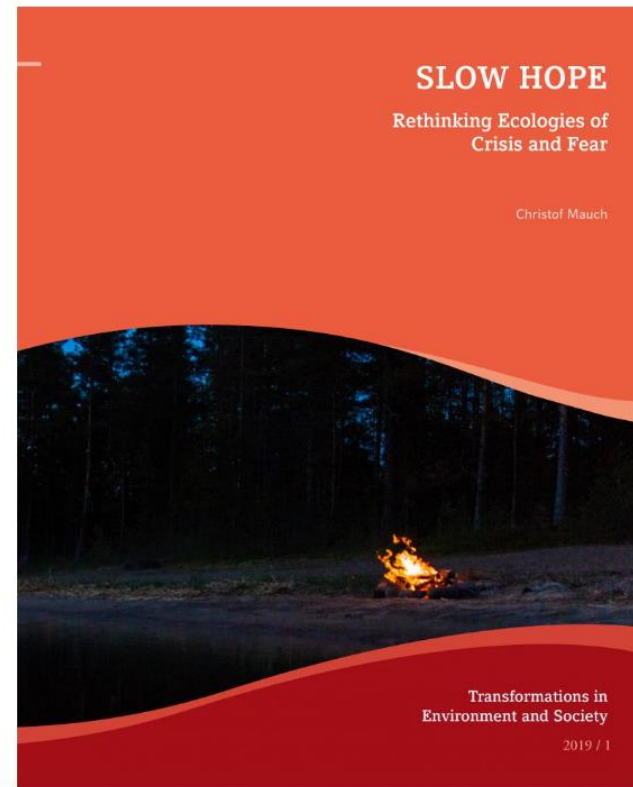
by Christof Mauch



About this issue

In this essay, Christof Mauch sets out his concept of “slow hope.” Departing from Rob Nixon’s concept of “slow violence”—which describes the gradual, almost invisible nature of much environmental damage—Mauch highlights the mostly untold stories of quiet but positive environmental change that are often hiding in plain sight. The search for environmental hope does not downplay the magnitude of the problems we are facing, nor is it synonymous with unadulterated optimism. Yet, as Mauch shows, it is possible to look to hopeful narratives as alternatives to stories of decline—narratives which can help us to think creatively and act courageously in these times of converging ecological, social, and economic crises.

How to cite: Mauch, Christof. “Slow Hope: Rethinking Ecologies of Crisis and Fear,” *RCC Perspectives: Transformations in Environment and Society* 2019, no. 1. doi.org/10.5282/rcc/8556.



Preface

I first mentioned the concept of “slow hope” four years ago in a lecture in Seattle at the University of Washington’s W. C. Simpson Center for the Humanities. My talk focused on sustainability but, to my surprise, I received half a dozen messages with inquiries about the idea of slow hope, which I had mentioned only in passing. The term resonated with an audience who was seemingly tired of listening to long streams of frightening stories—about climate change, migration, violence, and extinction. Under no circumstances should we downplay the threat of ecological change and vast potential catastrophe. We do not need unadulterated optimism. But pessimistic stories about climate determinism and imminent collapse can be just as dangerous because they have the potential to paralyze us. What we need, I think, is hope: hopeful narratives that help us think creatively and act unflinchingly. We need to be fully aware of the crises that humans and other animals face on the planet. But we also need to identify starting points and signposts that can direct us into an alternative future.

SOM ESCOLES Blaves!



Co-funded by
the European Union



THE PROJECT



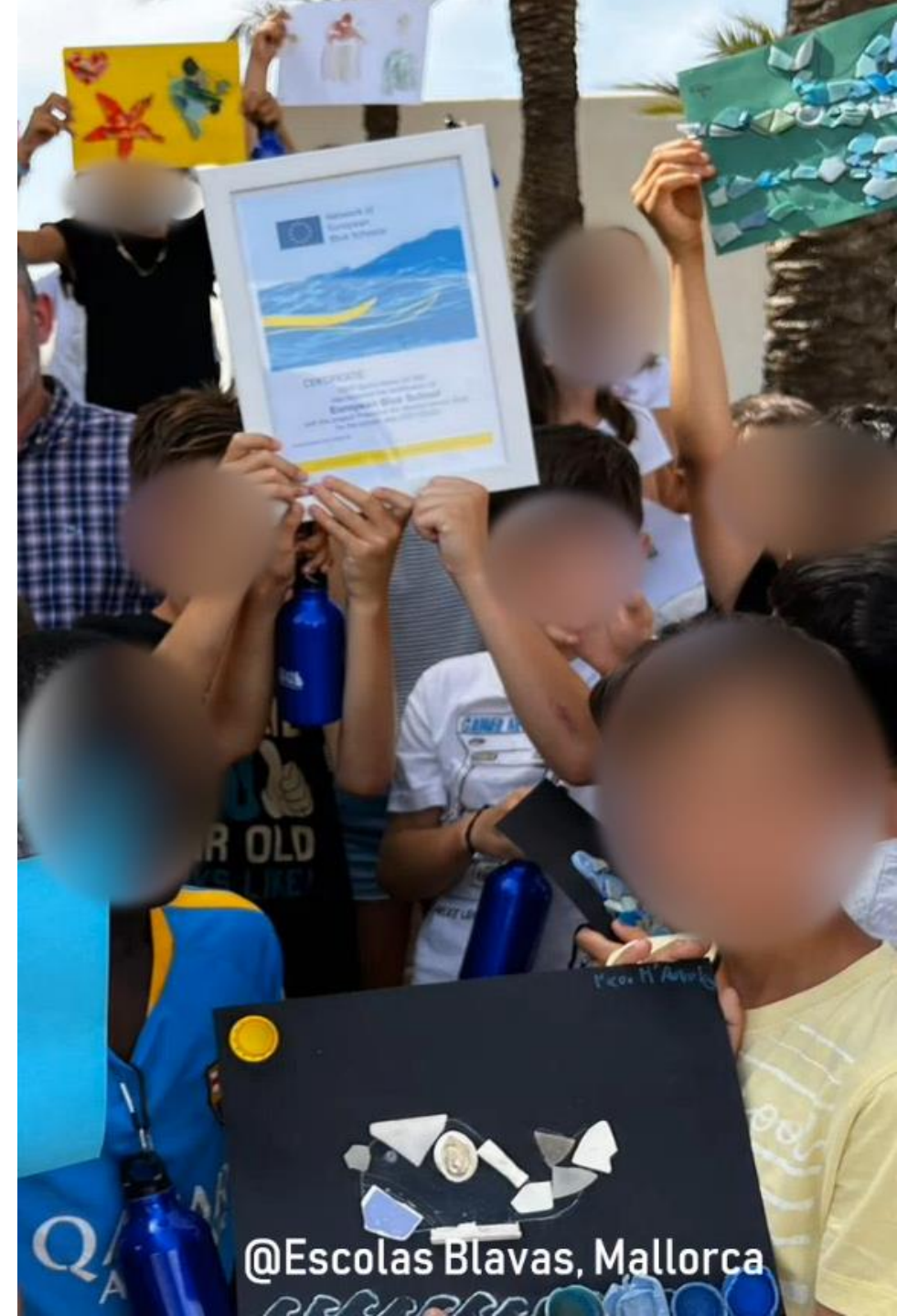
We are Blue Schools was an Erasmus + project aimed to bring environmental awareness and sustainability skills to young people in schools by teaching them Ocean Literacy.



Goal: to implement a pilot action in the Island of Mallorca and **certify 100 schools in the period of 1 year**



How? We are Blue Schools bottom-up Approach.



@Escolas Blavas, Mallorca

THE CONCEPT

European Blue Schools bring the ocean into the classroom. On the journey to becoming a European Blue School, teachers and pupils will improve their understanding of the ocean and develop a sense of responsibility towards our shared planet. Creating awareness and a feeling of responsibility for our ocean (so-called Ocean Literacy) encourages students to become more active and responsible European and global citizens



Network of
European
Blue Schools

5 CRITERIA



Develop a project with interlinked activities



Communicate project results



Produce a clear output



Involve all students



Collaborate with a local partner



Co-funded by
the European Union



Why Mallorca?

Mallorca is an island located in the West-Med with about 1 million people and more than 300 schools that are already implementing "blue activities" but are not connected with each other.

For this reason, we are implementing activities based on ocean literacy in the schools' curricula.

Testing this project in Mallorca gives us a good insight on the importance of blue schools in islands and gives us a path of knowledge on how to replicate it in other areas.



Method

Creativity
Previous Contacts
One to One meetings
Calls (Emails do not work!)
Connecting to local initiatives
Research
Social Media
Don't Give Up!

Bottom - Up Approach





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the European Union





Co-funded by
the European Union



NGO



Ajuntament de Muro

COMPANY

LOCAL
GOVERNMENT



SCHOOL



MEDIA



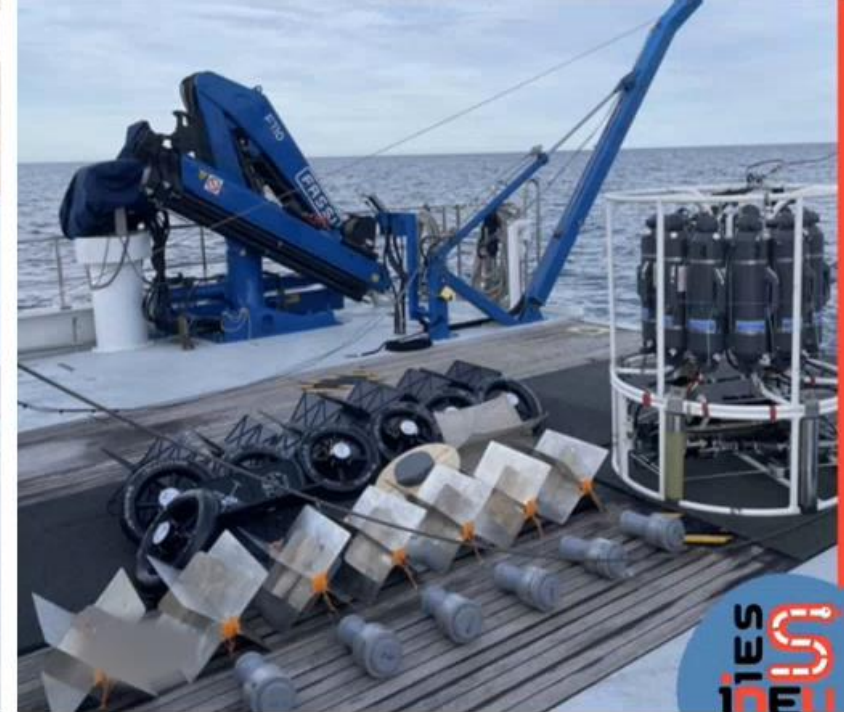
Project: Upcycling Microplastics





LA RESTAURACIÓ DE LA POSIDÒNIA A L'AULA

Per Inés Castañón



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Boia a l'aigua!

De l'espai exterior al Mediterrani











Mallorca reconocida como referente en cultura oceánica por el proyecto Som Escoles Blaves

05 de julio del 2023

por Agencias

El proyecto piloto Som Escoles Blaves (We are Blue Schools!), que se está desarrollando en Mallorca para llevar la cultura oceánica a las aulas, ha sido galardonado como mejor proyecto Azul del Mediterráneo y como mejor proyecto para el desarrollo y circularidad de habilidades Azules por el WestMed.

¿TE HA GUSTADO ESTE CONTENIDO? PUES... ¡TIENES TODOS NUESTROS PROGRAMAS COMPLETOS A...

AENIB, única patronal náutica presente en la negociación del Convenio del Metal para 2023-2025

El cuenta con el apoyo de la Comisión Europea para ayudar a lograr una Economía Azul más inteligente y resistente y mejorar la gobernanza mar...



Entrega del premio por el proyecto 'Som Escoles Blaves'.

FELANITX

Premio para el proyecto piloto 'Som Escoles Blaves'

► El proyecto *Som Escoles Blaves*, que se está desarrollando en Mallorca para llevar la cultura oceánica a las aulas, fue galardonado como mejor proyecto Azul del Mediterráneo y como mejor proyecto para el desarrollo y circularidad de habilidades Azules por el WestMed, iniciativa que cuenta con el apoyo de la Comisión Europea para ayudar a lograr un espacio marítimo más seguro. **R.P.F.**



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REPLICABILITY:

From Balearic Islands to Canary Islands



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BLUEPRINT GUIDE

"HOW TO CREATE
A NETWORK OF BLUE SCHOOLS
FROM A GRASSROOTS APPROACH"

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



THE BLUE STARTS IN THE ROOTS





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THANK YOU!

IG: [somescoles_blaves_eu](#)



Network of
European
Blue Schools

SEA TEACH



CLUBE
INTERCULTURAL
EUROPEU