

# #CoastalFutures23

Livestream & London

25-26 January 2023



Coastal  
Futures  
Conference  
2023





30th annual conference

## **Coastal Futures 2023**

*Our Ocean and Coastal Future  
for the Next Decade*



# SESSION 3

## **GOVERNING FOR COMMUNITIES: Integration on the frontline**

### **CHAIR**

**Amy Pryor, Thames Estuary Partnership  
and Coastal Partnerships Network**

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# SESSION 3

## **GOVERNING FOR COMMUNITIES: Integration on the frontline**

**James Grellier, Exeter Medical School**

***Coastal blue space, health and  
wellbeing – opportunities and  
challenges***

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# Coastal blue spaces, health and wellbeing – opportunities and challenges

Dr James Grellier

European Centre for Environment and Human Health



# Coastal blue spaces support health & well-being

**Accessible** coastal blue spaces provide **valuable benefits to health** and well-being through a number of **pathways**

**Decisions** on use, design and management of coastal areas should seek to **maximise positive impacts on health** and reduce inequality

Making effective decisions relies in part on developing a **robust evidence base** and **engaging with stakeholders**

The BlueHealth project made a set of **tools** that can be used to **understand** attributes of blue **spaces**, the **people** using them, and the impacts of **interventions** made in them



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# What are health and wellbeing?







Health: “A state of complete physical, mental and social well-being and not merely the absence of disease”

WHO 1946

“Health is not produced by hospitals and the health system”

Prof Richard Smith  
(BMJ)

genes + environment

*where we live*

*how we live*

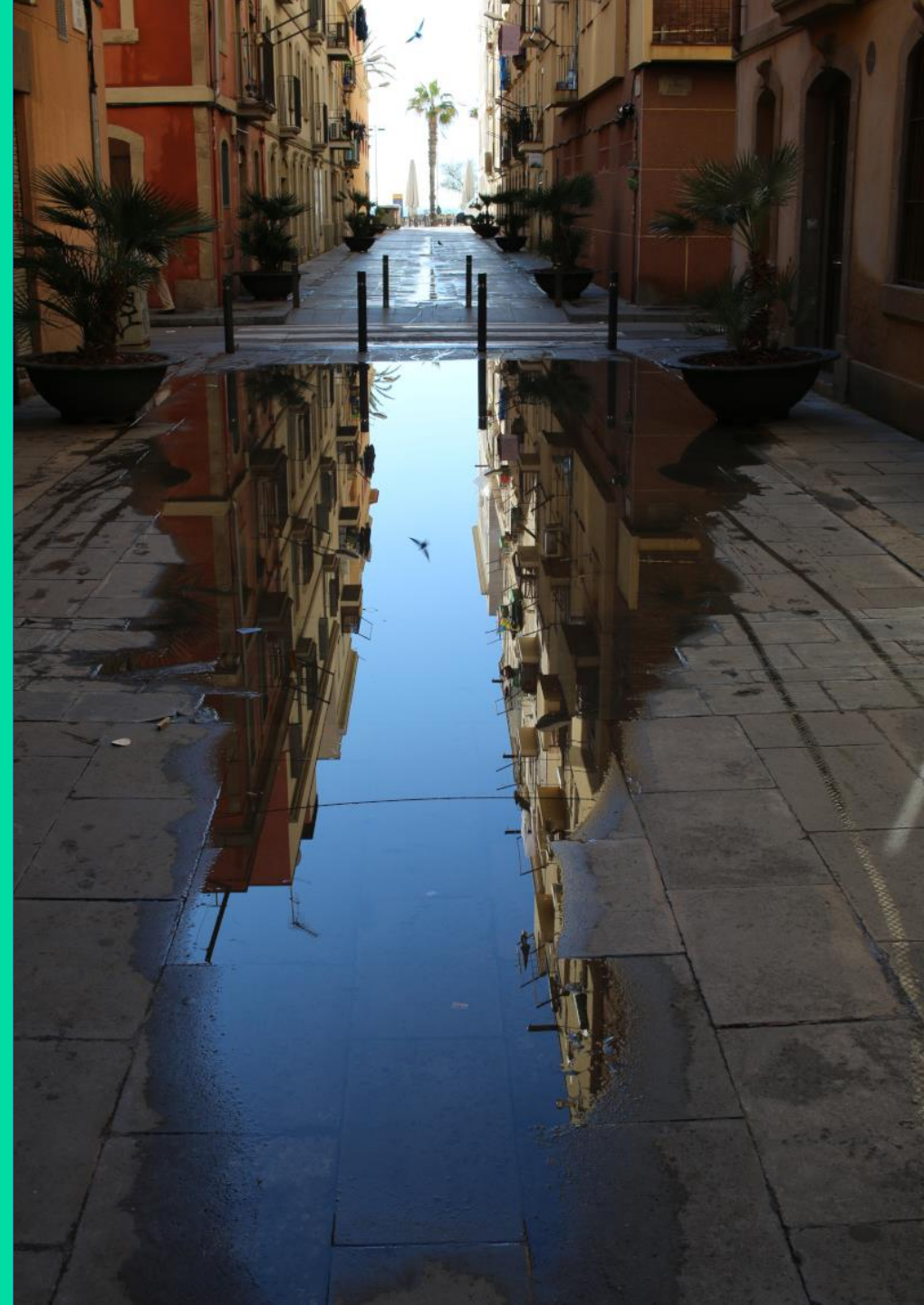
do our decisions focus on health?





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# What are blue spaces and why are they important?



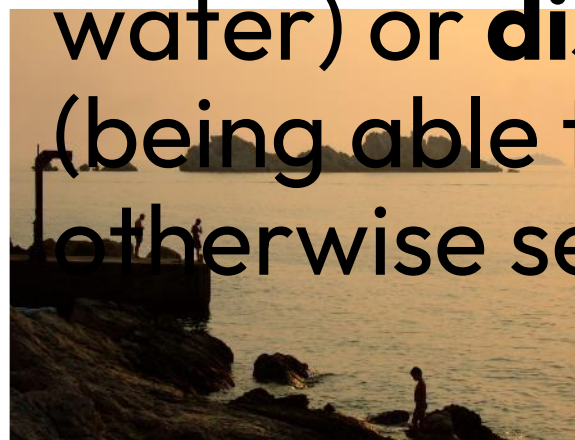
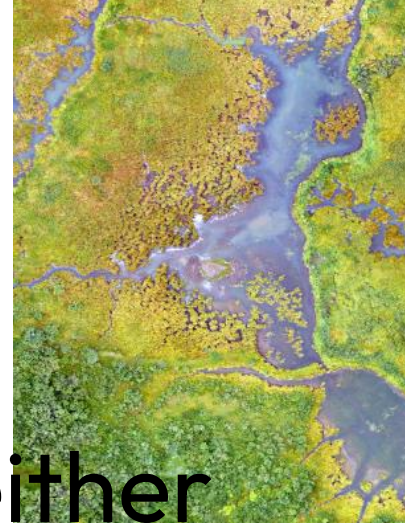


# A working definition

**Outdoor** environments—either **natural** or **manmade**—that prominently **feature water** and are **accessible** to humans either **proximally** (being in, on or near water) or **distally/virtually** (being able to see, hear or otherwise sense water)







**Outdoor environments—either natural or manmade—that prominently feature water and are accessible to humans either proximally (being in, on or near water) or distally/virtually (being able to see, hear or otherwise sense water)**





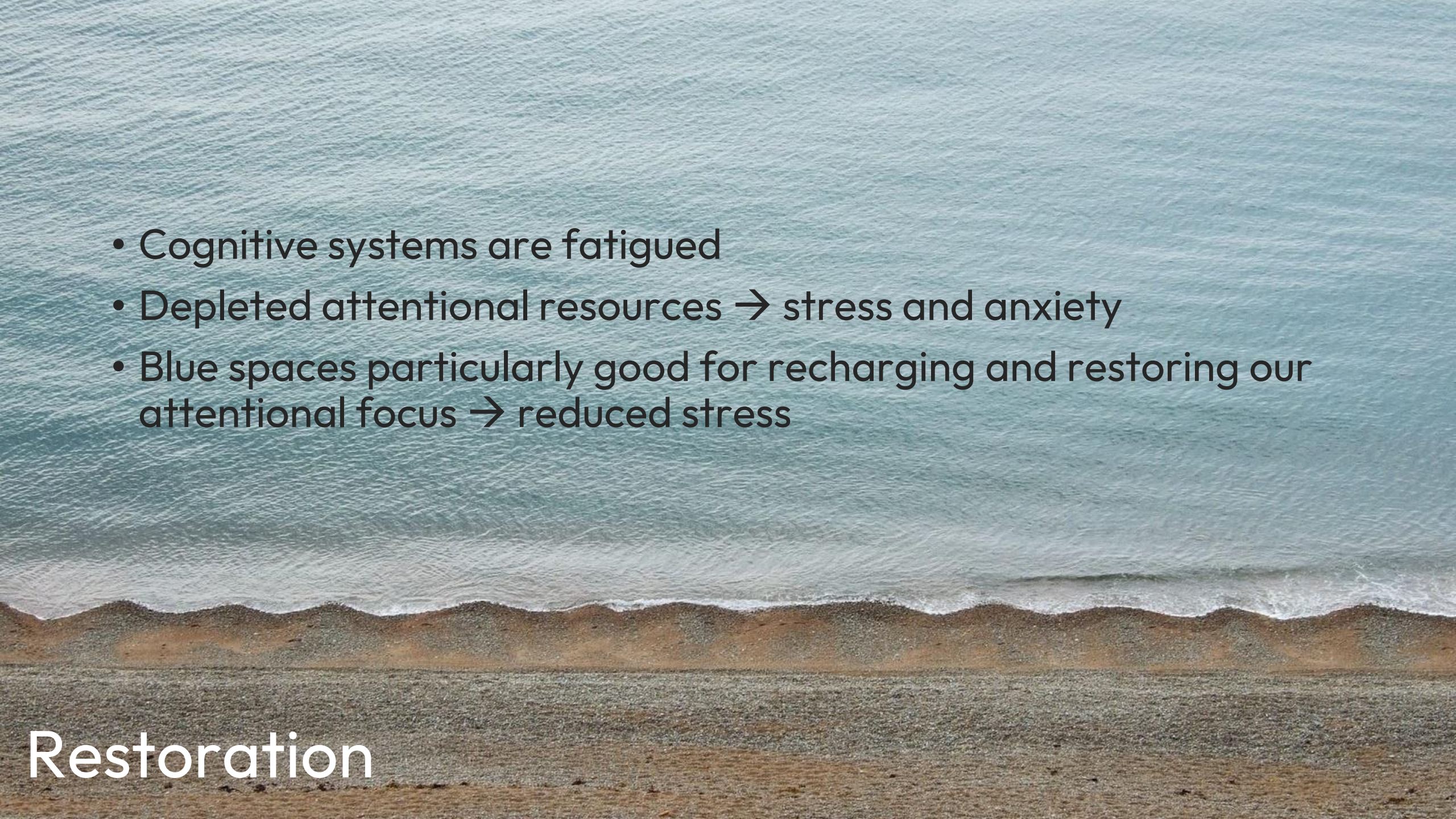
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# How can coastal blue spaces positively influence health?

Three pathways: restoration, instoration and mitigation






- 
- A photograph of a beach with waves crashing onto the shore. The water is a light blue-grey color, and the sand is a mix of brown and grey. The waves are breaking in the foreground, creating white foam. The background shows the ocean stretching to the horizon under a clear sky.
- Cognitive systems are fatigued
  - Depleted attentional resources → stress and anxiety
  - Blue spaces particularly good for recharging and restoring our attentional focus → reduced stress

# Restoration



- 
- Physical activity
  - Positive social interactions
  - Sense of place
  - Connectedness to nature

# Instoration



- 
- Reduction of urban heat
  - Reduction / masking of urban noise

Mitigation



# What links blue spaces and health?





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# What did we find?

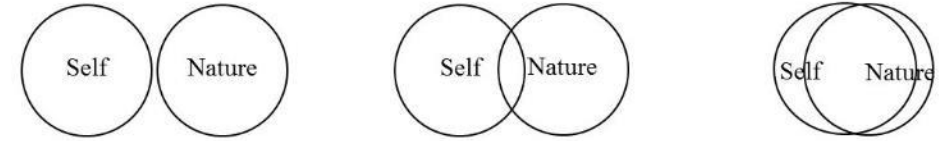
[bluehealth2020.eu/publications/](https://bluehealth2020.eu/publications/)





# Wellbeing and nature visits

White et al. 2021 Scientific Reports



- Explored associations of measures of **mental health** (positive well-being, mental distress, depression/anxiety medication use) with:

How often did you visit:

- Green space
  - Inland blue space
  - Coastal blue space
- ...in the last 4 weeks?

- (a) frequency of recreational visits to different natural settings; and
  - (b) nature connectedness, across season and country.
- In countries where people feel less connection to nature, or who spend less time in nature, we see poorer mental well-being

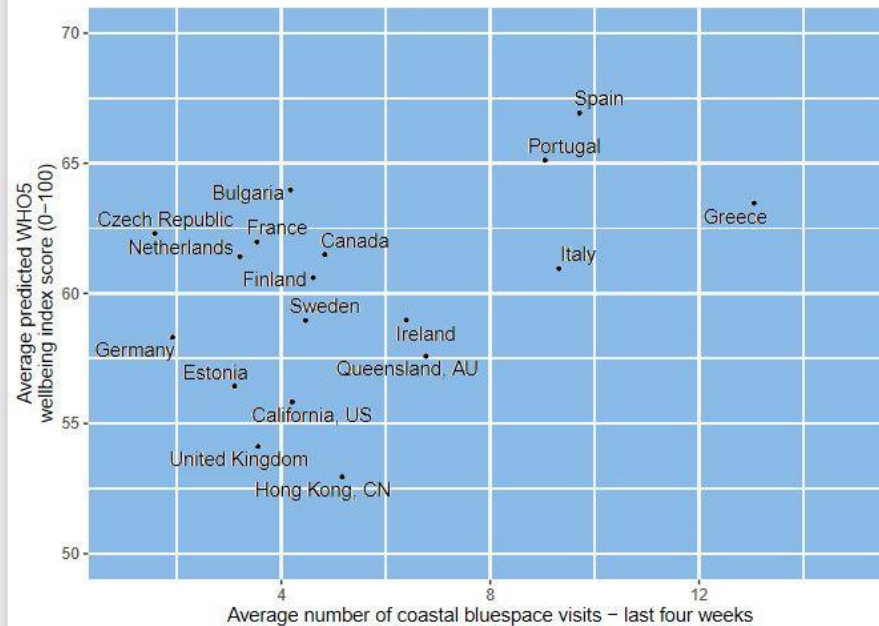
WHO-5 Well-being Index

Please respond to each item by marking <u>one box per row</u> regarding how you felt in the last two weeks.		All of the time	Most of the time	More than half the time	Less than half the time	Some of the time	At no time
WHO 1	I have felt cheerful in good spirits.	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 0
WHO 2	I have felt calm and relaxed.	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 0
WHO 3	I have felt active and vigorous.	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 0
WHO 4	I woke up feeling fresh and rested.	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 0
WHO 5	My daily life has been filled with things that interest me.	<input type="checkbox"/> 5	<input type="checkbox"/> 4	<input type="checkbox"/> 3	<input type="checkbox"/> 2	<input type="checkbox"/> 1	<input type="checkbox"/> 0

White, M.P., Elliott, L.R., Grellier, J. *et al.* Associations between green/blue spaces and mental health across 18 countries. *Sci Rep* **11**, 8903 (2021).

- Planners and decision-makers should bring nature into people's lives to boost well-being

Coastal blue  
space



Inland blue  
space





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# Which tools did we develop to answer our research questions?

[bluehealth2020.eu/resources/toolbox/](https://bluehealth2020.eu/resources/toolbox/)





# BlueHealth Toolbox

1. BlueHealth Decision Support Tool
2. BlueHealth Environmental Assessment Tool
3. BlueHealth Behavioural Assessment Tool
4. BlueHealth Community Level Survey
5. BlueHealth PPGIS
6. BlueHealth International Survey (BIS)



# Take home messages

- Contact with nature positively benefits physical, mental and social health
- High quality, safe blue spaces have the potential to exert particularly strong positive effects on health
- If we look after our blue spaces, restore them, get to know them, and use them sustainably, they will continue to look after us
- Developers, planners and communities should consider health-promoting value of blue spaces when making decisions on projects and plans relating to blue infrastructure
- Evaluate and monitor behaviours, environmental quality, opinions, governance etc. at blue space sites being transformed using validated tools





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Thank you

Get in touch



[j.grellier@exeter.ac.uk](mailto:j.grellier@exeter.ac.uk)



[linkedin.com/in/james-grellier](https://www.linkedin.com/in/james-grellier)



BlueHealth Toolbox

[bluehealth2020.eu/resources/toolbox/](https://bluehealth2020.eu/resources/toolbox/)







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# SESSION 3

## GOVERNING FOR COMMUNITIES: Integration on the frontline

**Caroline Douglass,  
Environment Agency**

*Adaptation to coastal change*

25th & 26th January, 2023 | Royal Geographical Society, London & online



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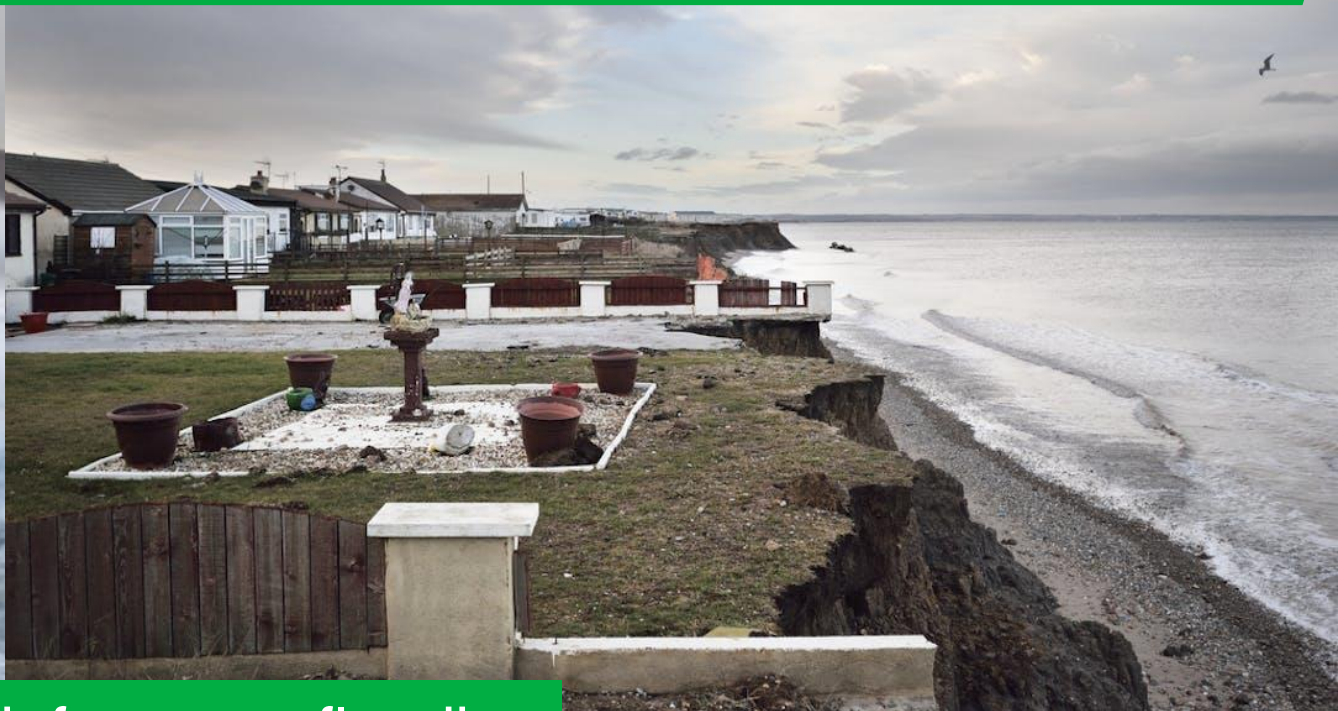
# Adaptation to coastal change

25 January 2023

**Caroline Douglass**  
**Environment Agency**  
**Executive Director for Flood and Coastal Risk Management**



# Coastal risk and challenges



- 2,750km at risk from sea flooding
- 1.9 million homes at risk from sea flooding and erosion
- One of the fastest eroding coastlines in Europe





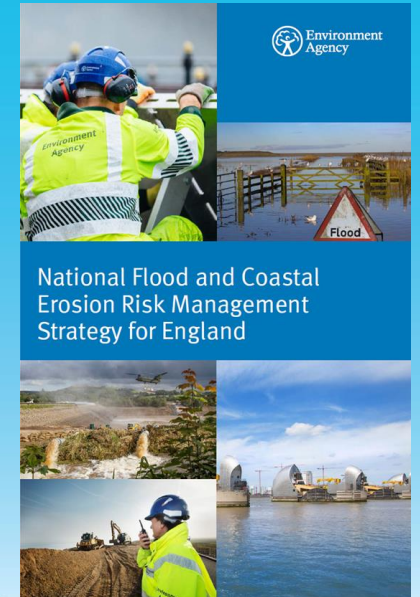
# Climate change: Why we need to act now

- Risks are increasing with climate change
- By 2100 once-a-century sea level events are set to become annual events
- 700 properties in England are vulnerable to coastal erosion over the next 20 years
- Without interventions, these figures could increase to about 5,000 properties within 20 years



# Flood and Coastal Erosion Risk Management Strategy and Roadmap

**A nation ready for, and resilient to, flooding and coastal change – today, tomorrow and to the year 2100**





# Shoreline Management Plans (SMPs)



- 20 SMPs cover the English coastline
- Provide a long term framework to plan for coastal adaptation, investment and spatial planning over a 100 year time horizon
- The plans identify 4 management approaches that can change across 25 year time periods
- Coastal Groups refreshing SMPs and developing a new online tool



# Coastal investment

- £1.6bn of investment in approx. 400 coastal erosion and sea flooding projects
- Over 100,000 homes better protected
- £40m national coastal monitoring programme
- £120m coastal habitat compensation and restoration programme











# Adaptation on the coast

- Flood and Coastal Resilience Innovation Programme
- 25 projects – will address current and future flood risk
- £36m – Coastal Transition Accelerator programme



- ▼
-  Coastal
  -  Community
  -  Catchment
  -  Technology
  -  Groundwater
  -  SuDS



# Coastal Habitat Compensation and Restoration





# Working in partnership



Marine  
Management  
Organisation



HM Coastguard



National  
Trust



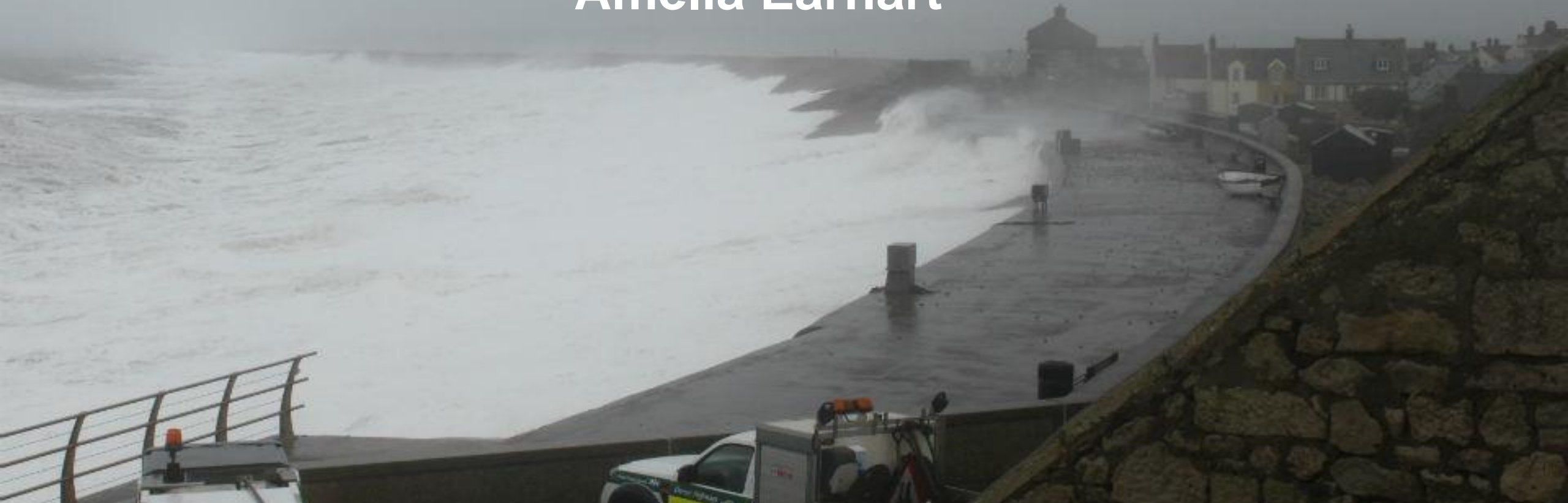
Lifeboats

**Balfour Beatty**



“The most difficult thing is the decision to act, the rest is merely tenacity”

**Amelia Earhart**











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*Our Ocean and Coastal Future  
for the Next Decade*



# SESSION 3

## GOVERNING FOR COMMUNITIES: Integration on the frontline

Beccy MacDonald-Lofts,  
Local Government Association Special  
Interest Group

*Collaborative working to support coastal  
local authorities and their communities*

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# Local Government Association Coastal Special Interest Group (LGA Coastal SIG):

*Collaborative working to support coastal local authorities and  
their communities*



Beccy MacDonald-Lofts  
Lead Officer  
[lgacoastalsig@southtyneside.gov.uk](mailto:lgacoastalsig@southtyneside.gov.uk)  
Twitter @LGACoastalSIG

# LGA Coastal SIG



Championing and representing the collective interests of coastal communities by increasing awareness and debate on environmental, economic and social issues at all levels in relation to the coast.



# Membership



LGACoastalSIG • 6mo

## LGA Coastal SIG Membership

Member local authorities of the Local Government Association Special Interest Group

- 57 coastal local authorities
- 60% of England's coast
- 16 million people
- Open to all local authorities who are members of the LGA

# Structure





# Councils working together for change



## LGA Coastal Special Interest Group & Coastal Group Network

### Coastal Landfill Questionnaire Report

November 2022



# Working in Partnership

- Central Government
- Environment Agency
- Maritime UK
- RNLI
- Coastal Communities Alliance
- Task and Finish Groups
- National Bathing Water Group
- LGA Climate Action Group
- OneCoast

ONECOAST



Marine  
Management  
Organisation





# Bringing together practitioners

Flood and Coast Conference 8<sup>th</sup> June 2022

Coastal Planning and Placemaking Workshops Feedback Report

## 6.2.1a How do we create a viable coast?



### Placemaking Workshop - Key Priorities



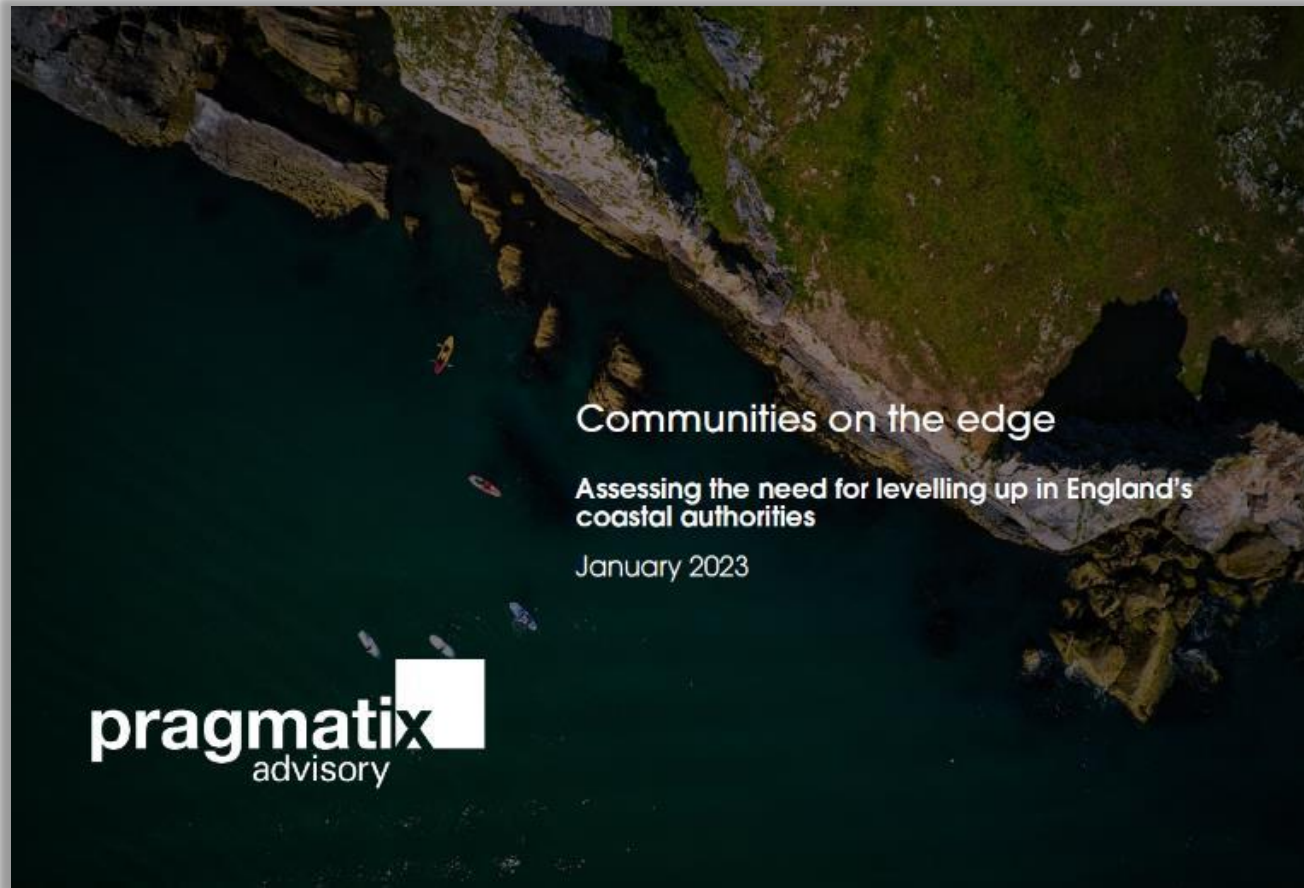
# ONECOAST

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# Collaborative research



## Communities on the edge

### Research funded by

Coastal Communities Alliance, Coastal Partnership Network, East Riding of Yorkshire Council, Essex County Council, Greater Lincolnshire LEP, LGA Coastal SIG, Lincolnshire County Council, National Coastal Tourism Academy, North East Lincolnshire Council, South Tyneside Council and Torbay Council

# Advocacy: All-Party Parliamentary Group for Coastal Communities



**Chair: Sally Ann Hart MP**

“As the MP for Hastings and Rye, a mixture of urban, rural and coastal communities, it is essential that the voice of coastal communities rings loud and clear at the government level to help ensure that no community is left behind.

Our coastal communities have so much untapped potential, and businesses and residents need to be given every opportunity to maximise their potential all year round.

This APPG will be able to focus on these communities that often have more in common with each other than with their inland neighbours, and they require targeted policies to help ensure equality of opportunity is provided the length and breadth of our United Kingdom.”

<https://www.coastalpartnershipnetwork.org.uk/coastalcommunitiesappg>

[coastalcommunitiesappg@gmail.com](mailto:coastalcommunitiesappg@gmail.com)





The All Parliamentary Party Group on Coastal Communities looks to consider current issues affecting coastal communities and to actively seek strategies to address these to enhance health, wellbeing, education, infrastructure and economies within these unique communities.



#### Collaborative Secretariat:



<https://www.coastalpartnershipnetwork.org.uk/coastalcommunitiesappg>

[coastalcommunitiesappg@gmail.com](mailto:coastalcommunitiesappg@gmail.com)



# Coastal Inquiry



- Roundtable on Health in Coastal Communities with Prof. Chris Whitty (CMO) (June 2022)
- Skills and Aspirations (November 2022)
- Year of the Coast 2023 (January 2023)
- Impact of coastal erosion on coastal communities (January 2023)
- Levelling up in coastal communities (February 2023)
- Ocean Literacy (March 2023)
- Housing Crisis in Coastal Communities (TBC)



<https://www.coastalpartnershipnetwork.org.uk/coastalcommunitiesappg>

[coastalcommunitiesappg@gmail.com](mailto:coastalcommunitiesappg@gmail.com)





YEAR OF THE COAST 2023

CAMPAIGN OUTLINE

YEAR OF THE  
*Coast*  
2023

#COAST2023

# WHY IS 2023 THE YEAR OF THE COAST?



The UK coastline ranks as one of the most exciting in the world; more than 185 million years old, and one of the most varied – rich in maritime port cities, smuggling villages, family resorts, natural beauty and unique sea life.

## **Year of the Coast 2023 marks:**

- The heralding of the England Coast Path; on completion it will be the longest marked walking route in the world
- An opportunity for coastal communities to collaborate and visitors to explore new coastal destinations
- An opportunity to have a wider conversation, engage new audiences and raise the profile of the coast
- A season to present sustainable coastal experiences, celebratory events, and new products
- The chance to introduce a new generation to the nature, culture and heritage on the coast to ensure its sustainable future

*Coast*  
2023



# WHAT WILL BE HAPPENING?



## **Tourism Initiative runs throughout the year**

- Amplify and coordinate a year-long programme of events
- Walking and cycling routes and sustainable experiences promoted
- Volunteering will be a particular focus e.g. beach clean-ups
- New content e.g. local stories, travel blogs and features
- 2023 is also the Year of the Pier, the 50th Anniversary of the South West Coast Path and will see the completion of large sections of the new England Coast Path National Trail.

## **Social, Environmental, Economic, Academic and Political opportunities**

- APPG for Coastal Communities is hosting a series of themed roundtable
- OneCoast research – Levelling Up on the Coast
- New Coastal Visitor Economy strategy
- Seaside Heritage Network re-launching with programme of events

**YEAR OF THE COAST IS AN INITIATIVE FOR EVERYONE SO PLEASE GET INVOLVED**

*Coast*  
2023

# HOW DO I GET INVOLVED?

January-February	Health and wellbeing
March-April	Nature – wildlife
May-June	Local food and drink
May-June	Active and Watersports
July-August	Family fun
July-August	Seaside heritage
September	Seafood / local food and drink
September-October	Arts & culture & entertainment
October	Nature & dark skies
November-December	Christmas

Download the toolkit: [2023 Year of the Coast - toolkit](#)

Toolkit includes ideas of how you can get involved e.g.:

- Events, celebrations and anniversaries
- Engagement or taster sessions
- New experiences, products or openings

Send us content for our themes (see chart) alongside our year-long themes:

- Walking - focus on coast path sections as they open during the year
- Events
- Accessibility
- Sustainability
- Community

**Share your events with us which will feed into [www.yearofthecoast.com](http://www.yearofthecoast.com) content**



# Motion for the Ocean



**Cllr Dr Pamela Buchan**  
@Asterinidae  
pamelabuchan.co.uk



**Emily Cunningham**  
@EG\_Cunningham  
emilycunningham.co.uk



**Nicola Bridge**  
@Ocean\_Nic\_B  
oceanconservationtrust.org

# Declarations



LGCoastalSIG • 1m

## Motion for the Ocean

These councils have made a declaration for ocean recovery by passing a  
#Motion4TheOcean

*A model Motion for the Ocean to help local authorities play their part in realising a clean, healthy and productive ocean and all of the direct economic, health and wellbeing benefits it will bring.*

14 councils of all levels including 1 inland council, 1 Welsh council have declared for an ocean recovery

Local Government Association have also declared the Motion





# Want to find out more?

Why not take a look at our website <https://lgacoastalsig.com/>

Follow us on Twitter @LGACoastalSIG

Or contact us at [LGACoastalSIG@southtyneside.gov.uk](mailto:LGACoastalSIG@southtyneside.gov.uk)

***Thanks for listening!***







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# SESSION 3

## **GOVERNING FOR COMMUNITIES: Integration on the frontline**

**Dr Emma McKinley, Cardiff University**

***Ocean Literacy for the UN Ocean Decade:  
UK insights***



25th & 26th January, 2023 | Royal Geographical Society, London & online



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## Diverse Marine Values

# Ocean literacy for the UN Ocean Decade: UK Insights



Dr Emma McKinley (Cardiff University/ Marine Social Science Network - @EmmaJMcKinley

[mckinleye1@cardiff.ac.uk](mailto:mckinleye1@cardiff.ac.uk) #TeamMarSocSci #MarSocSci

Thanks to Mark Atkinson, Nicola Bridge, Kay Barclay, Kathryn Hughes, Daryl Burdon, Rebecca Sherlock, the Diverse Marine Values Team and more!



# Take home messages

- **Ocean Literacy is more than communication and education!**
- There are **\*at least\*** 10 dimensions that need to be considered when thinking about ocean literacy.
- Challenge who gets to be involved in 'ocean literacy' and what makes a 'coastal community'.
- Download, read and use the national Ocean Literacy reports for England, Scotland and Wales.
- Use the insights to better understand communities in your area and their 'emoceans'.
- Need for effective mechanisms to include diverse values and OL dimensions within ocean decision making– what are our pathways to impact?





2021 United Nations Decade  
2030 of Ocean Science  
for Sustainable Development

# ABOUT THE DECADE



The Science  
We Need for the  
Ocean We Want



The United Nations  
Decade of Ocean Science  
for Sustainable Development  
(2021-2030)



GenO

Welcome to  
**Generation  
Ocean**



The United Nations  
Decade of Ocean Science  
for Sustainable Development  
(2021-2030)



Join the  
movement  
for the  
**Ocean  
We Want**

10 years  
10 challenges  
1 ocean

*Change humanity's relationship  
with the ocean*

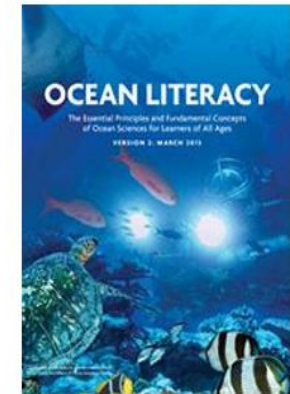


## The essential principles of Ocean Literacy

1. The Earth has one big ocean with many features
2. The ocean and life in the ocean shape the features of the Earth
3. The ocean is a major influence on weather and climate
4. The ocean makes the Earth habitable
5. The ocean supports a great diversity of life and ecosystems
6. The ocean and humans are inextricably interconnected
7. The ocean is largely unexplored



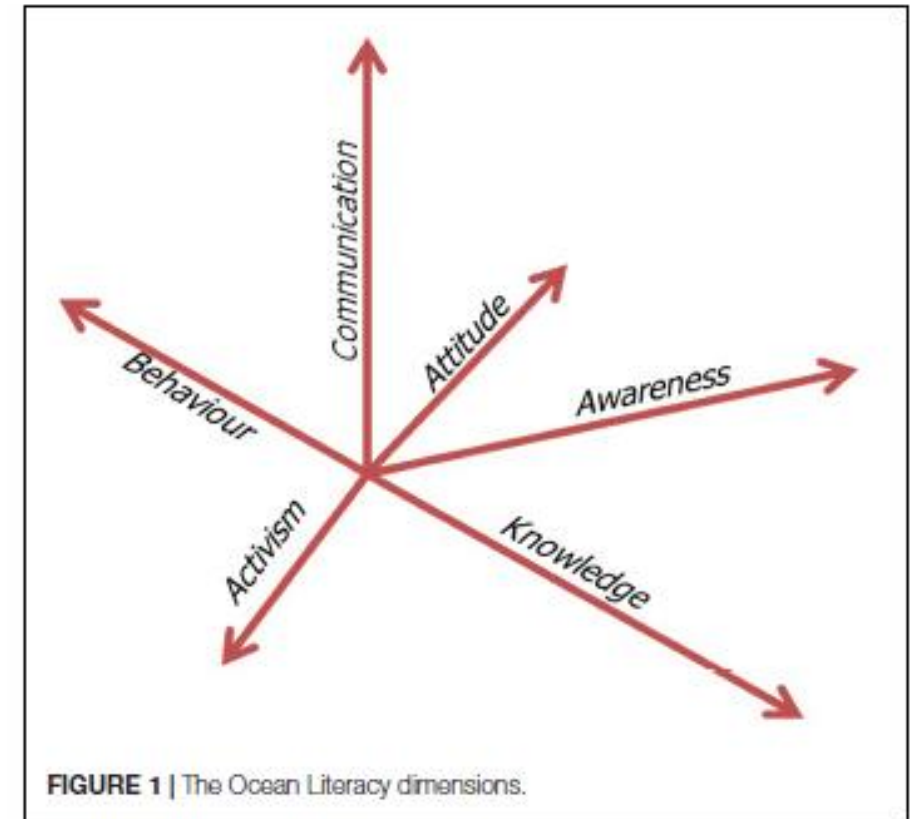
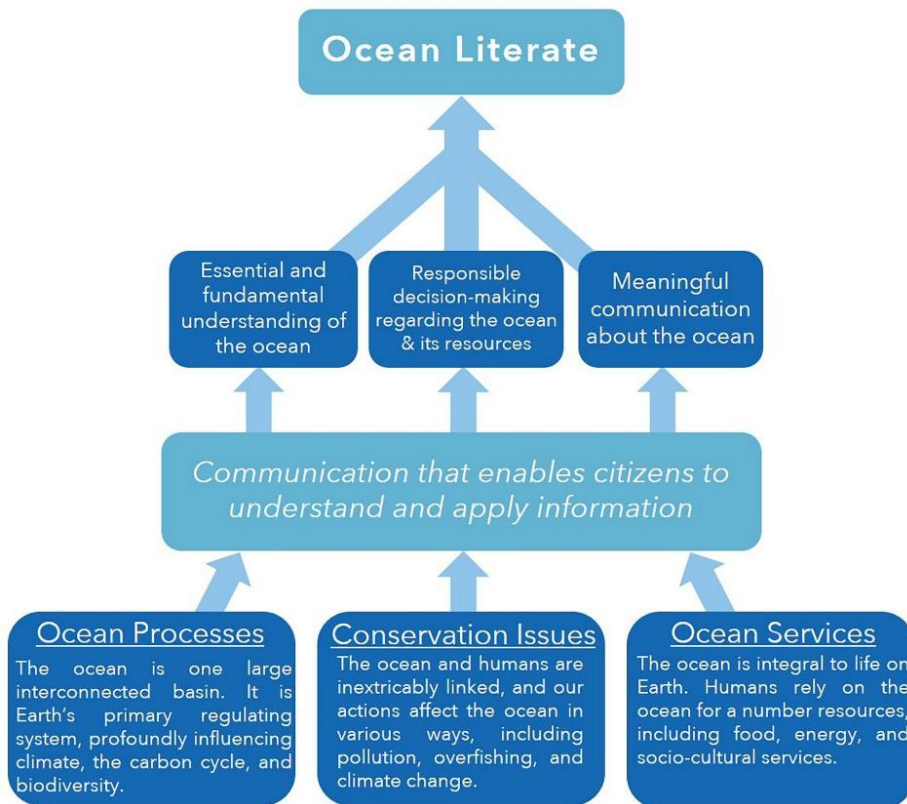
**“An understanding of the ocean's influence on you and your influence on the ocean”**



# Ocean literacy originally defined as:

“An understanding of the ocean's influence on you and your influence on the ocean”

Brennan et al., 2019. A System Dynamics Approach to Increasing Ocean Literacy. Front. Mar. Sci. 6:360. doi: 10.3389/fmars.2019.00360



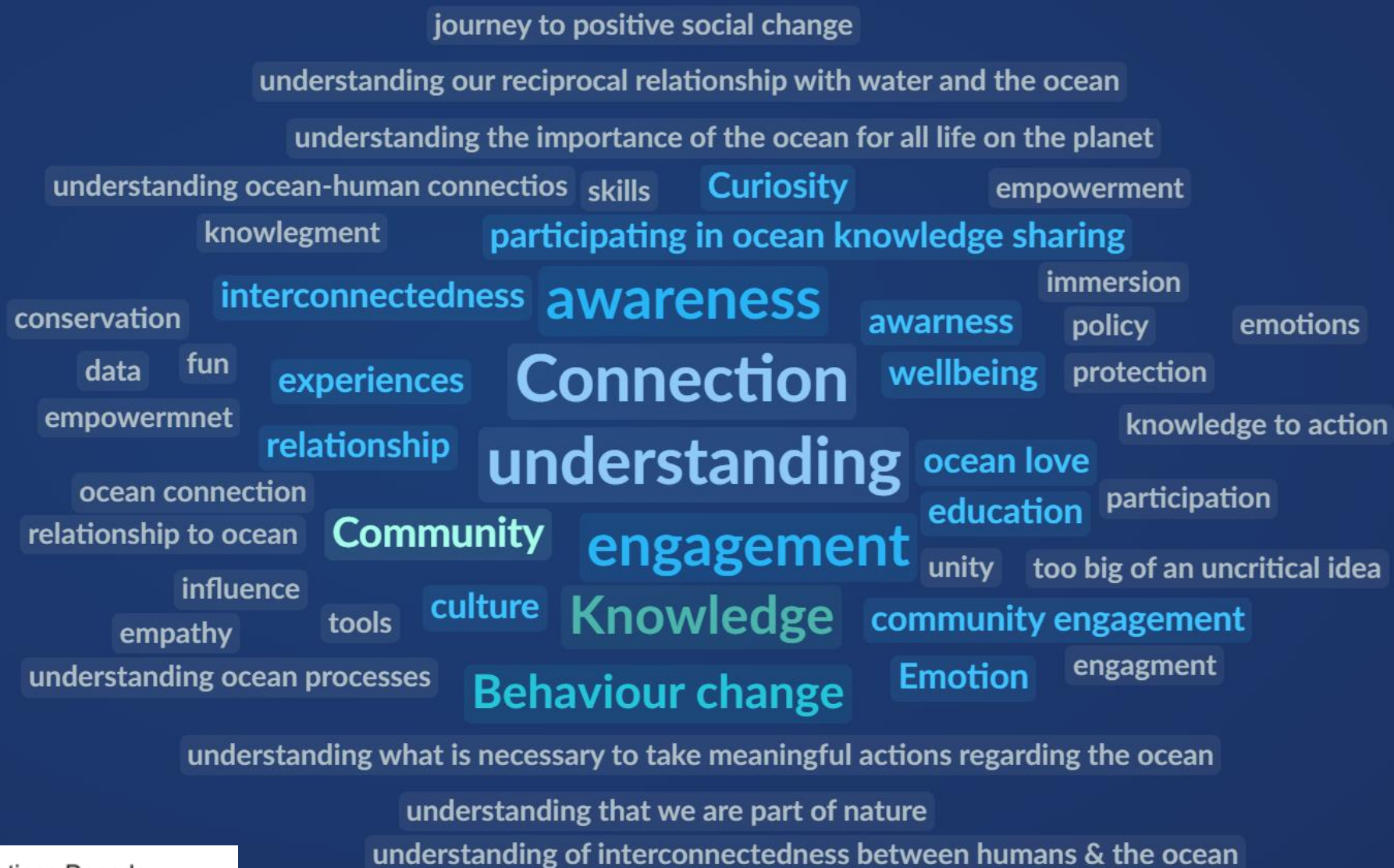
Kopke et al., 2019. Stepping Out of the Ivory Tower for Ocean Literacy. Front. Mar. Sci. 6:60. doi: 10.3389/fmars.2019.00060

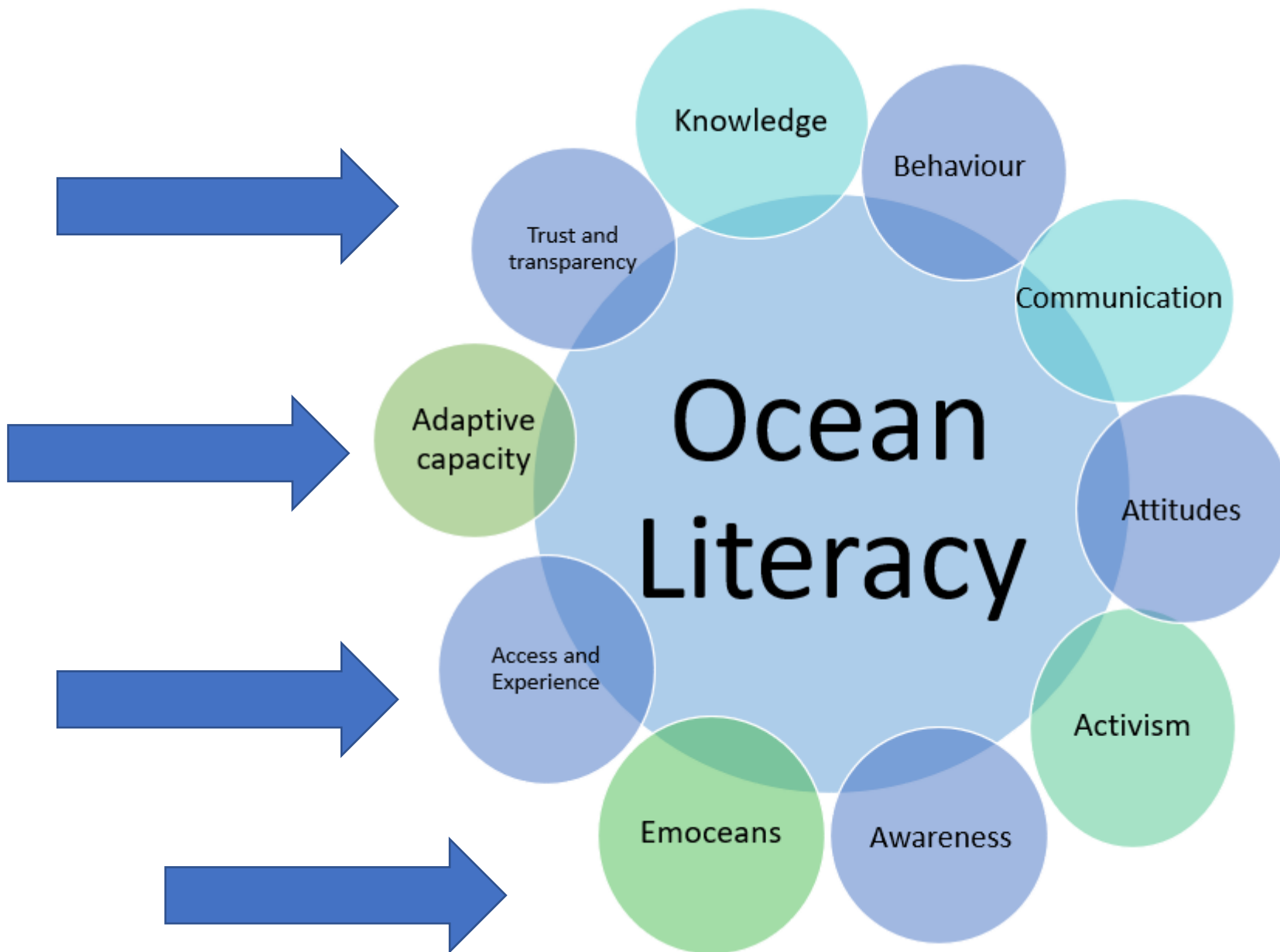
<https://www.eurocean.org/np4/home>



# What does ocean literacy mean to you?

0 6 3





## The evolution of ocean literacy: A new framework for the United Nations Ocean Decade and beyond

E. McKinley<sup>a,\*</sup>, D. Burdon<sup>b</sup>, R.J. Shellock<sup>c</sup>

<sup>a</sup> School of Earth and Environmental Sciences, Cardiff University, Cardiff, UK

<sup>b</sup> Daryl Burdon Ltd, Marine Research, Teaching and Consultancy, Wilbury, HU10 6LJ, UK

<sup>c</sup> Australian National Centre for the Public Awareness of Science, Australian National University, Canberra, Australia

### ARTICLE INFO

**Keywords:**  
Ocean literacy  
Marine citizenship  
Human-ocean relationships  
UN Ocean Decade

### ABSTRACT

First introduced in the early 2000s, the concept of ocean literacy has evolved in recent years, not least since its inclusion as a mechanism for change within the United Nations Ocean Decade's goals. Building on early definitions of ocean literacy, there has been increasing recognition of a range of additional dimensions which contribute to an individual or collective sense of 'ocean literacy'. Drawing on existing research, and parallel and supporting concepts, e.g., marine citizenship, ocean connectedness, and public perceptions research, this paper proposes ten dimensions of ocean literacy: knowledge, communication, behaviour, awareness, attitudes, activism, emotional connection, access and experience, adaptive capacity and trust and transparency, and recommends expanding previously recognised dimensions, in a bid to ensure that ocean literacy encompasses diverse knowledges, values and experiences. The paper provides a useful framework for ongoing ocean literacy research, and highlights aspects of ocean literacy which have received limited focus to date.



### UNDERSTANDING OCEAN LITERACY AND OCEAN CLIMATE-RELATED BEHAVIOUR CHANGE IN THE UK - WORK PACKAGE 1: EVIDENCE SYNTHESIS

Final report produced for  
Ocean Conservation Trust & Defra

Author(s)  
Dr Emma McKinley & Dr Daryl Burdon

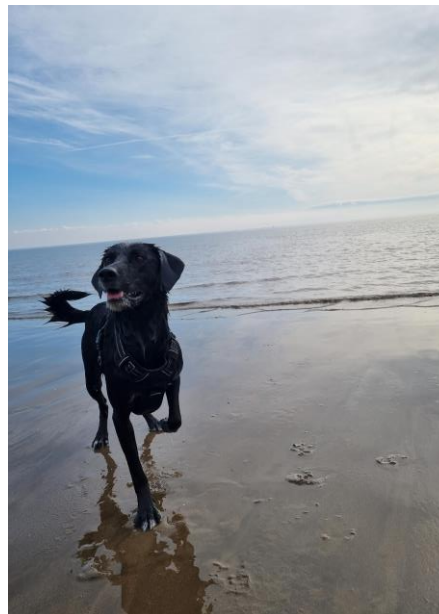
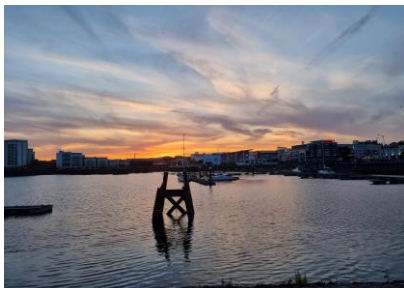
21 October 2020

Daryl Burdon Ltd Marine Research, Teaching & Consultancy (Company No. 12345678)  
15 Marshall Avenue, Wilbury, HU10 6LJ | +44(0)7603184053  
darylburdon@gmail.com | www.darylburdon.co.uk



## Diverse Marine Values





- Carried out Feb-March 2021 and 2022
- England and Wales (2021), Scotland (2022)
- Over 12,000 respondents, including non-coastal communities across the UK.
- Topics on ocean knowledge, emotions, values, concerns, behaviors and more!
- Second OL Report published Nov 2022



Department  
for Environment  
Food & Rural Affairs



Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales



ocean  
conservation  
trust

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Our ocean sparks feeling of wonder but also concern, reveals new ocean awareness survey

June 1, 2021

The Department for Environment, Food & Rural Affairs (Defra), and the Ocean Conservation Trust, have today published the results of the largest ever ocean literacy survey held in England and Wales, which measured public awareness, attitudes, knowledge and behaviours related to the marine environment and ocean climate change.

'Ocean literacy' can be defined as the understanding of our individual and collective impact on the Ocean and its impact on our lives and wellbeing.

Published ahead of World Ocean Day on the 8<sup>th</sup> June, the survey underlines the important link between the health of our ocean and the multiple pressures on it – with 94% believing that the fate of the ocean and humans is inextricably linked.

The survey reveals how the public perceives most with the marine environment are a sense of awe and wonder (82%) and concern (68%). The survey also found strong support for global action on climate change, biodiversity loss and marine pollution.

This comes as the UK is pulling out of the heart of its G20 and COP26 Presidency, and is disappointing and alarming because the protection of at least 30% of the ocean by 2030 through the Global Ocean Alliance.

The key findings include:

- A strong connection to the ocean with 85% of people saying that protecting the marine environment was personally very important or essential.
- Evidence of strong physical and mental health benefits of our marine environment. Of those who had visited our coastline, 85% said it was good for their physical health and 84% said it was good for their mental health.
- The public feel that marine litter and plastic pollution (74%) is the greatest threat to the marine environment, followed by the chemical pollution (57%) and overfishing (56%).

Archives

June 2021

May 2021

April 2021

March 2021

February 2021

January 2021

December 2020

November 2020

October 2020

September 2020

August 2020

July 2020

Categories

A survey from Defra and the Ocean Conservation Trust also found that more than 8,400 people in England and Wales supported looking after the seas, with 85% saying marine protection was personally important to them.

But the plans are likely to cause concerns for other sea users such as fishermen.

The government said it would work closely with them, and consider the potential social, economic and environmental impacts of the sites.

Conservationists at the Wildlife Trust said the idea was a fantastic step forward for "revitalising parts of the sea", helping them become healthier and allow degraded underwater habitats to recover.

Greenpeace said the reserves would be vital, but is also calling for damaging bottom trawl fishing to be banned across existing marine protected areas to stop the damage to the seabed and the release of carbon stored there.

It said the government should "level up every offshore protected area around the country, with an urgency that reflects the climate and nature crisis facing us".

## Public grasps threat to ocean even as leaders fail to meet targets, poll finds

Survey to mark World Oceans Day finds 94% in England and Wales believe the fate of oceans and humans is inextricably linked



▲ The beach at Birling Gap, East Sussex. The poll found 94% of people who visited the coast last year said it benefited their mental health. Photograph: Jon Santa Cruz/Reuters/Shutterstock

As people mark World Oceans Day today, an overwhelming 94% of people in England and Wales believe the fate of the oceans and humans are inextricably linked, while more than half rate global ocean health as "poor or very poor", according to a government survey.

The online survey of 8,000 people, carried out for the Department for Environment, Food & Rural Affairs (Defra) and the Ocean Conservation Trust earlier this year, reveals the depth of public understanding of the link between the health of the oceans and the multiple pressures upon them.

A catalogue of devastating reports in recent years has revealed overfished stocks, disappearing habitats and ubiquitous pollution, as well as the mounting impact of the climate crisis. A United Nations report last year said the world had failed to meet a single target to stem the destruction of life and ecosystems, and that 60% of coral reefs were under threat.

Although there has been progress in some regions, the proportion of marine populations that are overfished has increased in the past decade to a third of the total, and many non-target species are threatened because of unsustainable levels of bycatch, while plastic waste and excess nutrients have been found to be at levels damaging to ecosystem function and biodiversity.

Department  
for Environment  
Food & Rural Affairs

# Ocean Literacy in England & Wales Headline Findings Report

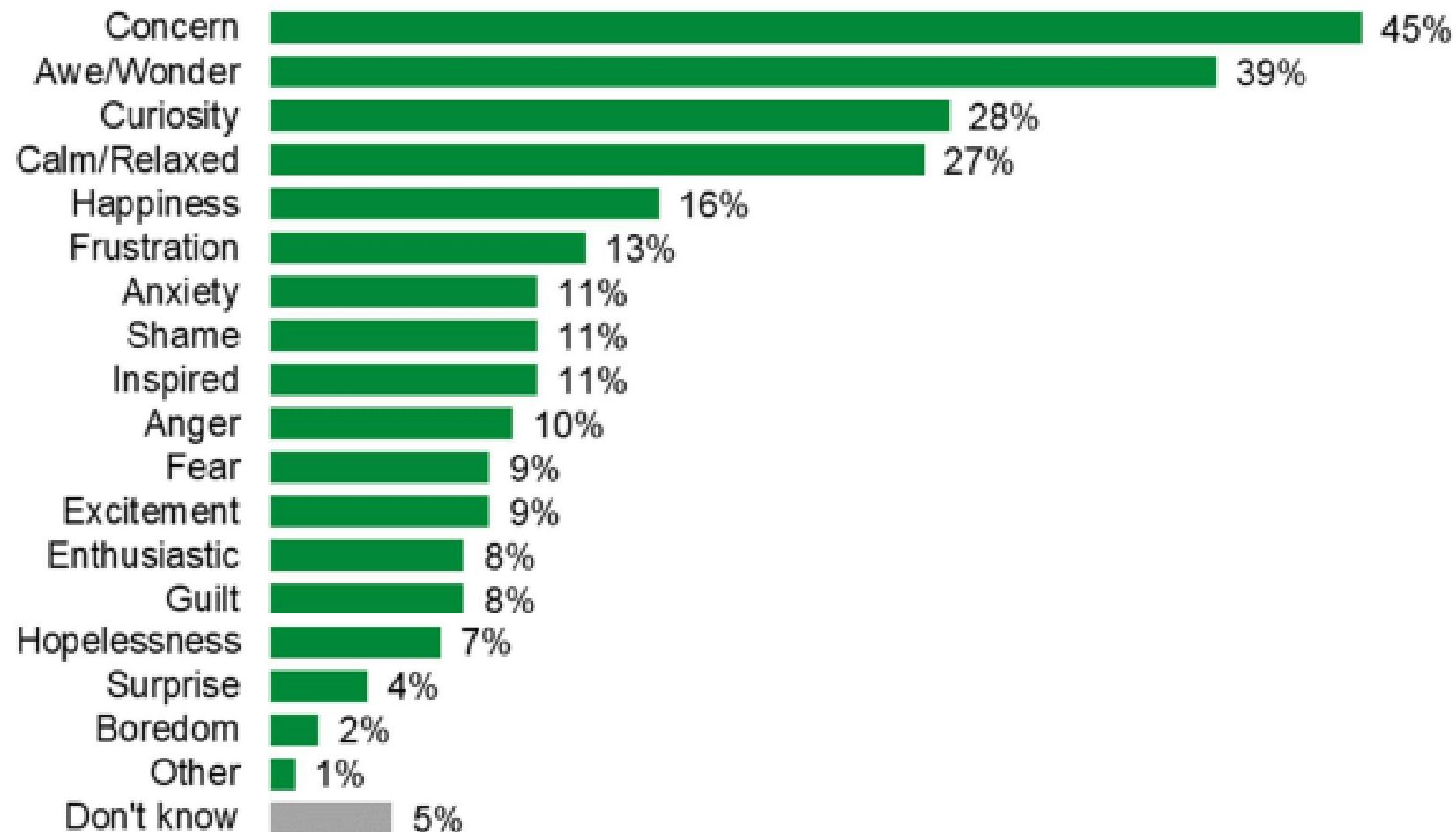




# Overview of Key Results – England

- 84% of respondents indicated that protecting the marine environment is important to them.
- Varied knowledge of marine related terms – e.g. climate change (92%) and sustainably fishing (82%) known and understood to some level BUT the majority of people had never heard of natural capital (58%), ocean literacy (56%), marine citizenship (55%) and carbon sequestration (54%) – *key policy drivers*
- 38% felt their lifestyle had no impact on the marine environment BUT majority of people indicated willingness to change – over 70%!
- High recognition of benefits of blue space – 84% indicate good for mental health and 80% for physical health.
- 50% of people had visited a marine environment in the last 12 months – up from 40% in 2021.
- 32% travelled more than 50 miles - the draw of the coast and sea!

**Figure 3: Emotional responses to the marine environment  
(weighted %)**



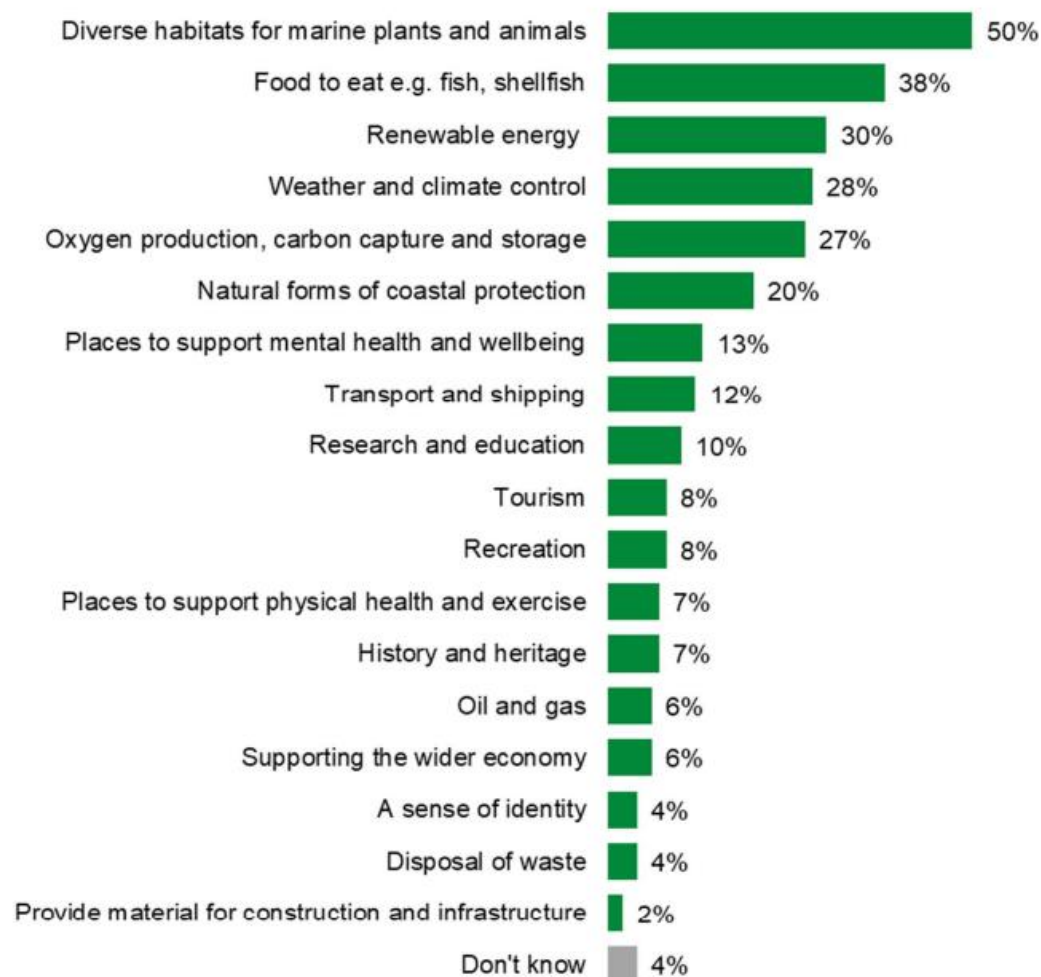
Q2. How do you feel when you think about the marine environment? Please select the three emotions which come closest to how you feel.  
Unweighted base: 7,060



Department  
for Environment  
Food & Rural Affairs

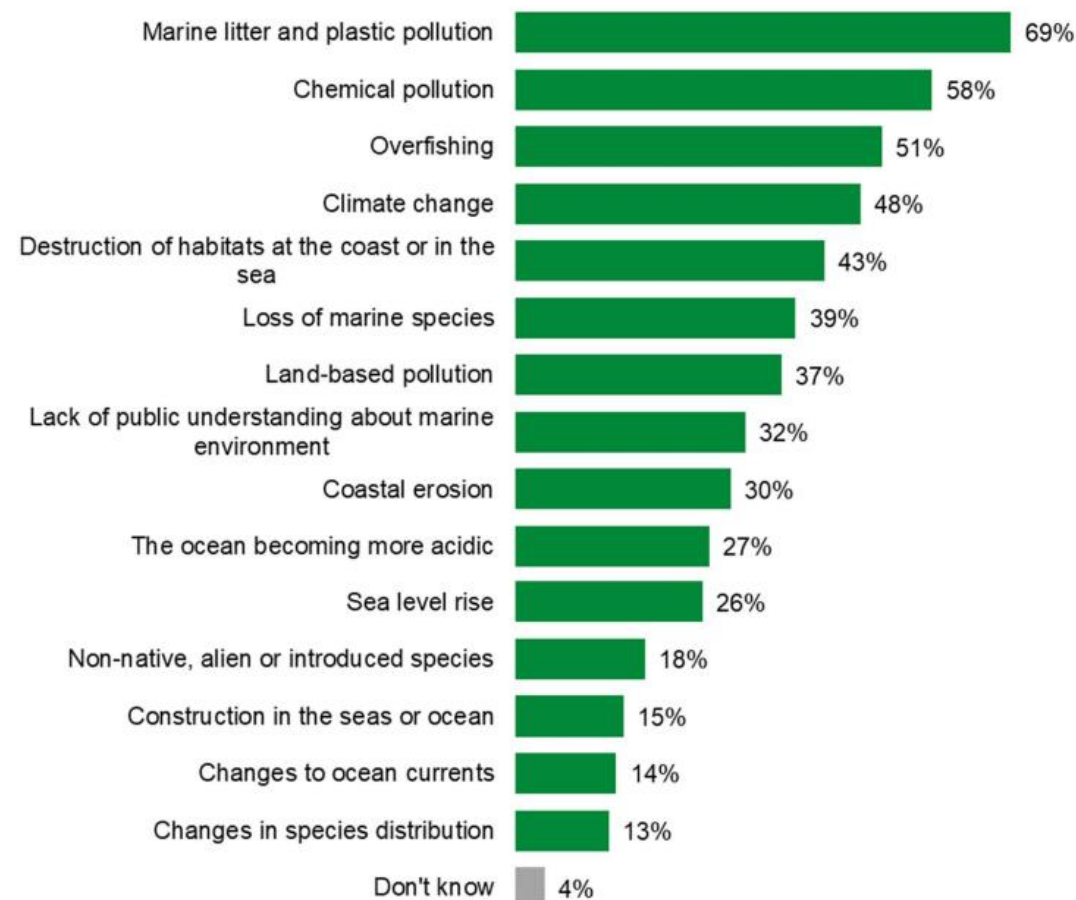


**Figure 6: Most important benefits of the marine environment (weighted %)**



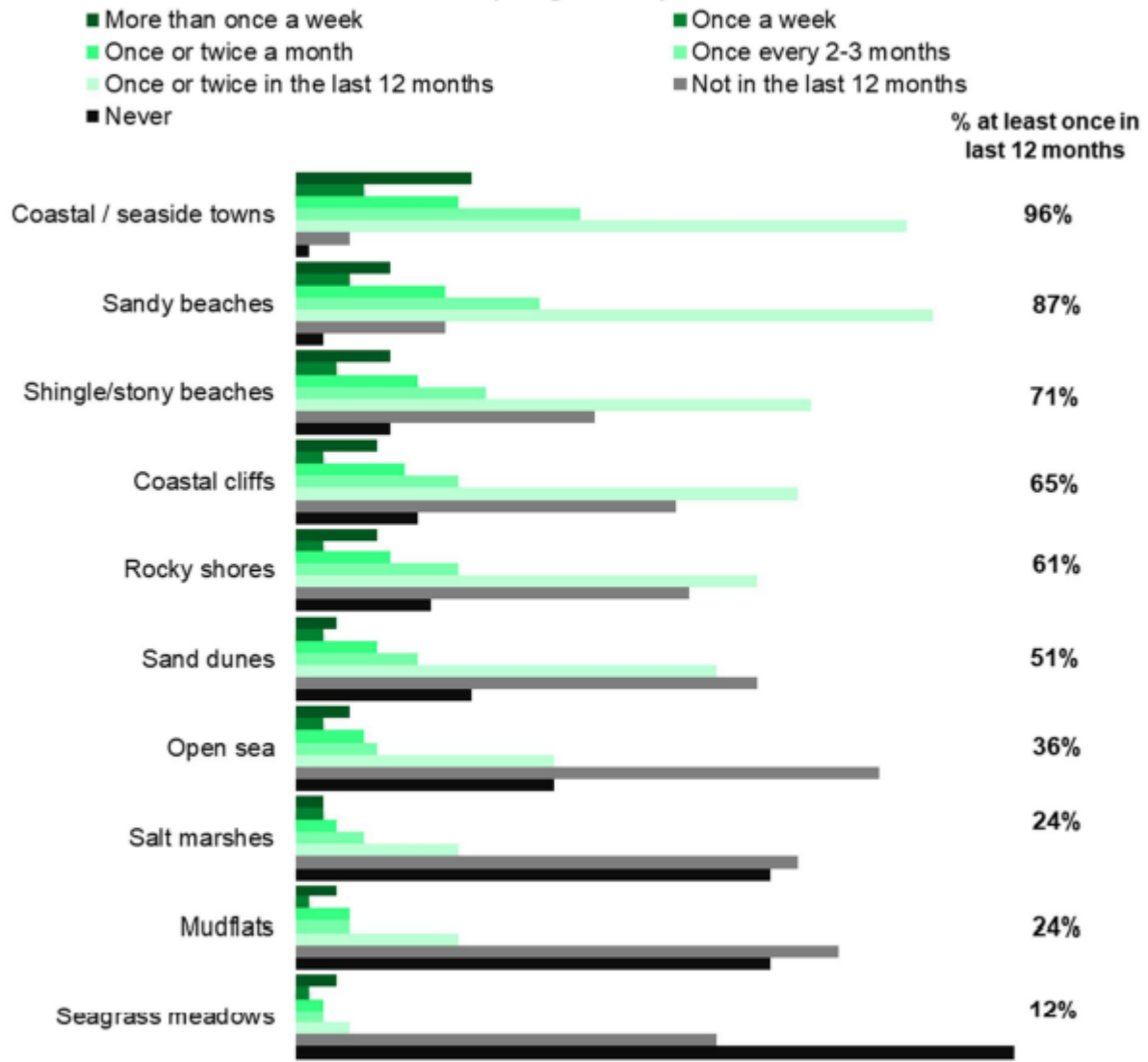
Q9. In your opinion, what are the three most important benefits that society gains from the marine environment in England?  
Unweighted base: 7,060

**Figure 12: Pressures posing most threat to the marine environment (weighted %)**



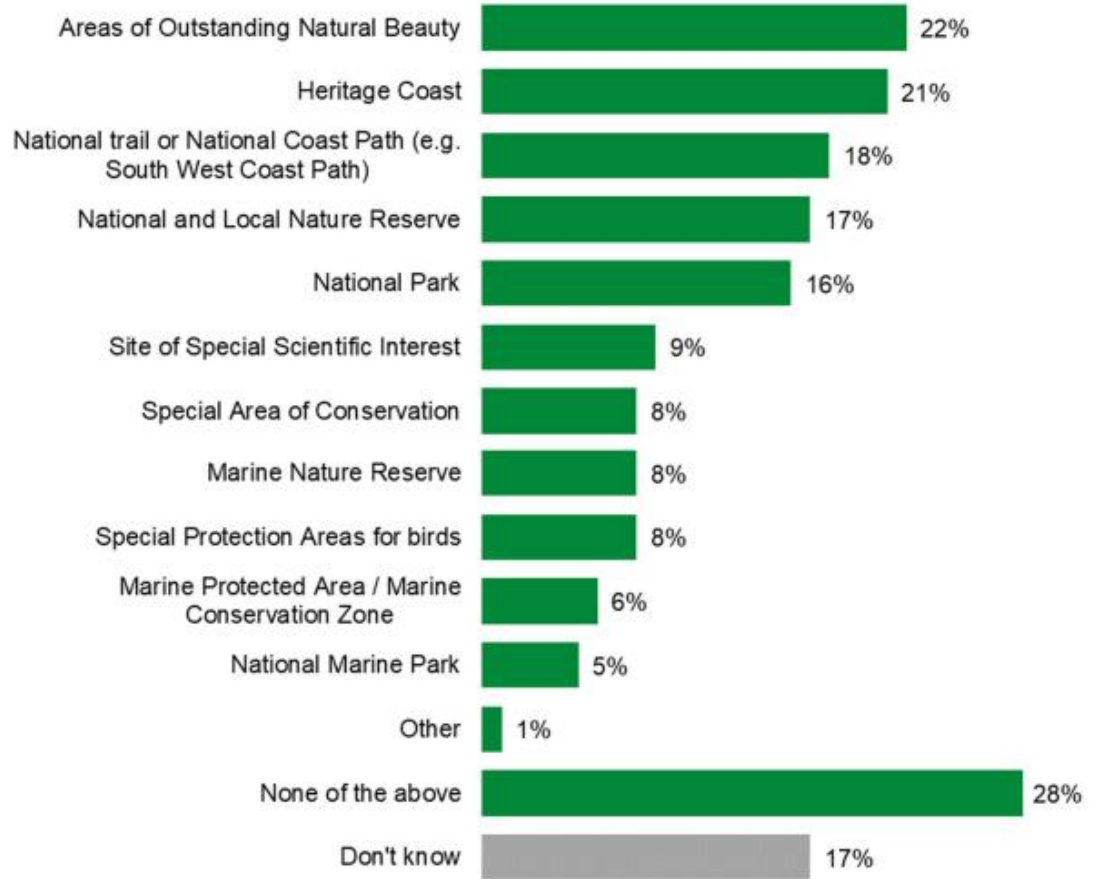
Q10. Which of the following if any, do you think pose the most threat to the marine environment in England?  
Unweighted base: 7,060

**Figure 33: Frequency of visits by marine environment type (weighted %)**



Q26. Thinking about the last 12 months, how often on average, if at all, have you spent your leisure time in the following marine environments?  
Unweighted base: where visited in last 12 months: 3,506

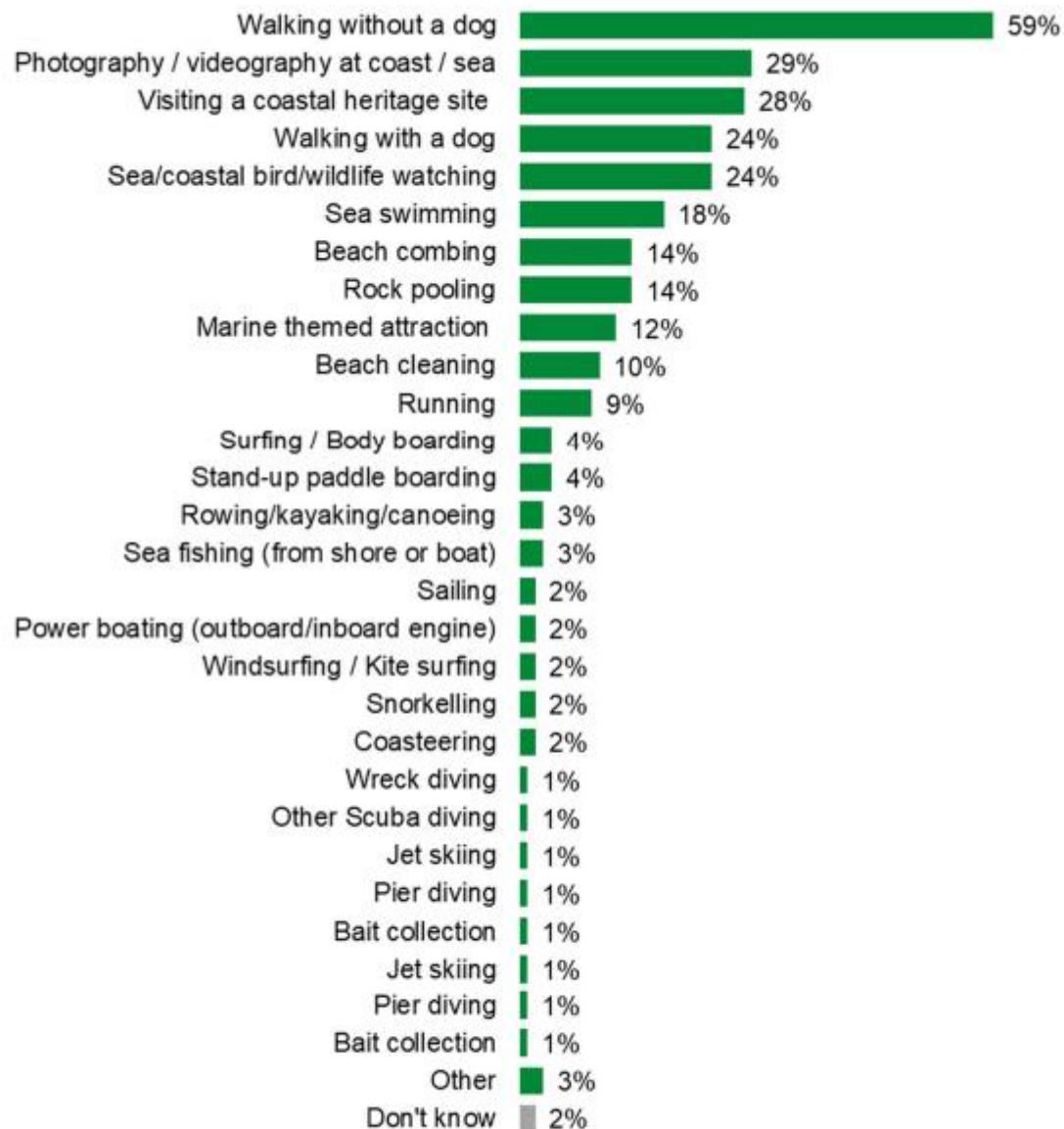
**Figure 34: Designated/specific types of sites visited on most recent visit (weighted %)**



Q35. Thinking about the last 12 months, do you recall any visits to marine environments being to the following?  
Unweighted base: where visited in last 12 months: 3,506



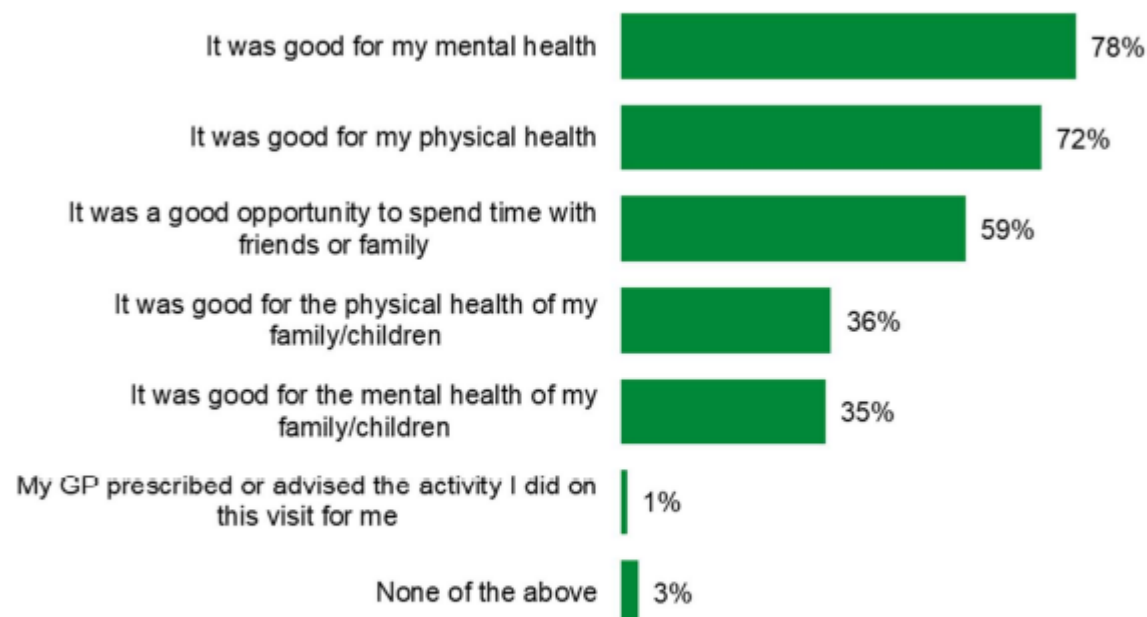
**Figure 35: Activities undertaken during visit(s) to the marine environment in last 12 months (weighted %)**



Q34. What recreational activities did you undertake during your visit(s) to the marine environment in the last 12 months?

Unweighted base: where visited in last 12 months: 3,506

**Figure 36: Outcomes associated with most recent visit to marine environment (weighted %)**



Q33. Which of the following statements about this time spent at a marine environment are true?

Unweighted base: where visited in last 12 months: 3,506





# Diverse Marine Values





# Ocean Literacy and the UN Ocean Decade

- UK National Decade Committee
  - 26 representatives of ocean research and practice
  - Aim to promote and raise awareness of opportunities from the UN Ocean Decade.
- Defra Ocean Literacy Working Group
- Wales Coast and Seas Partnership
  - Ocean Literacy Task Group
- Global Ocean Literacy Research Community – 3<sup>rd</sup> Ocean Literacy Dialogues (IMPAC 5)
- IOC-UNESCO Ocean Literacy With All Group



**Diverse Marine Values**

# Take home messages

- **Ocean Literacy is more than communication and education!**
- There are **\*at least\*** 10 dimensions that need to be considered when thinking about ocean literacy.
- Challenge who gets to be involved in 'ocean literacy' and what makes a 'coastal community'.
- Download, read and use the national Ocean Literacy reports for England, Scotland and Wales.
- Use the insights to better understand communities in your area and their 'emoceans'.
- Need for effective mechanisms to include diverse values and OL dimensions within ocean decision making– what are our pathways to impact?







Diverse Marine Values



Department  
for Environment  
Food & Rural Affairs



ocean  
conservation  
trust



Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales

marinescotland

Thank you!

For more information:

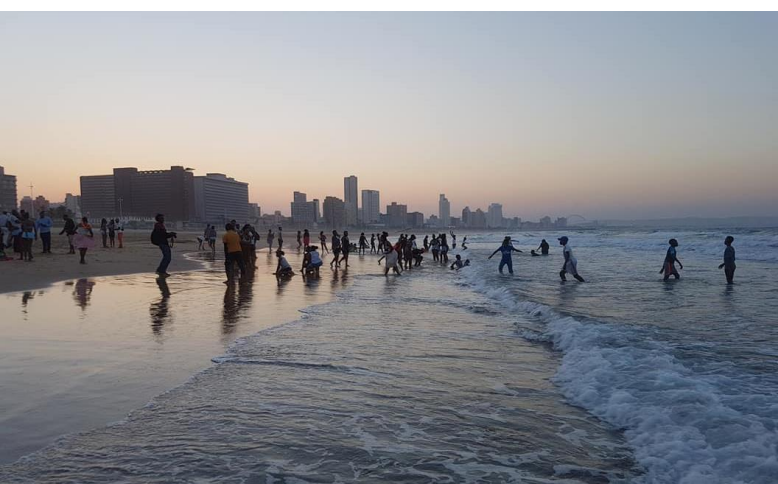
Email:

[mckinleye1@Cardiff.ac.uk](mailto:mckinleye1@Cardiff.ac.uk)

[Info@marsocsci.net](mailto:Info@marsocsci.net)

[www.marsocsci.net](http://www.marsocsci.net)

@MarSocSci











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# SESSION 3

## GOVERNING FOR COMMUNITIES: Integration on the frontline

Susannah Bleakeley, Independent

*Voices from the frontline making an impact*



25th & 26th January, 2023 | Royal Geographical Society, London & online



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Susannah Bleakley,  
Independent

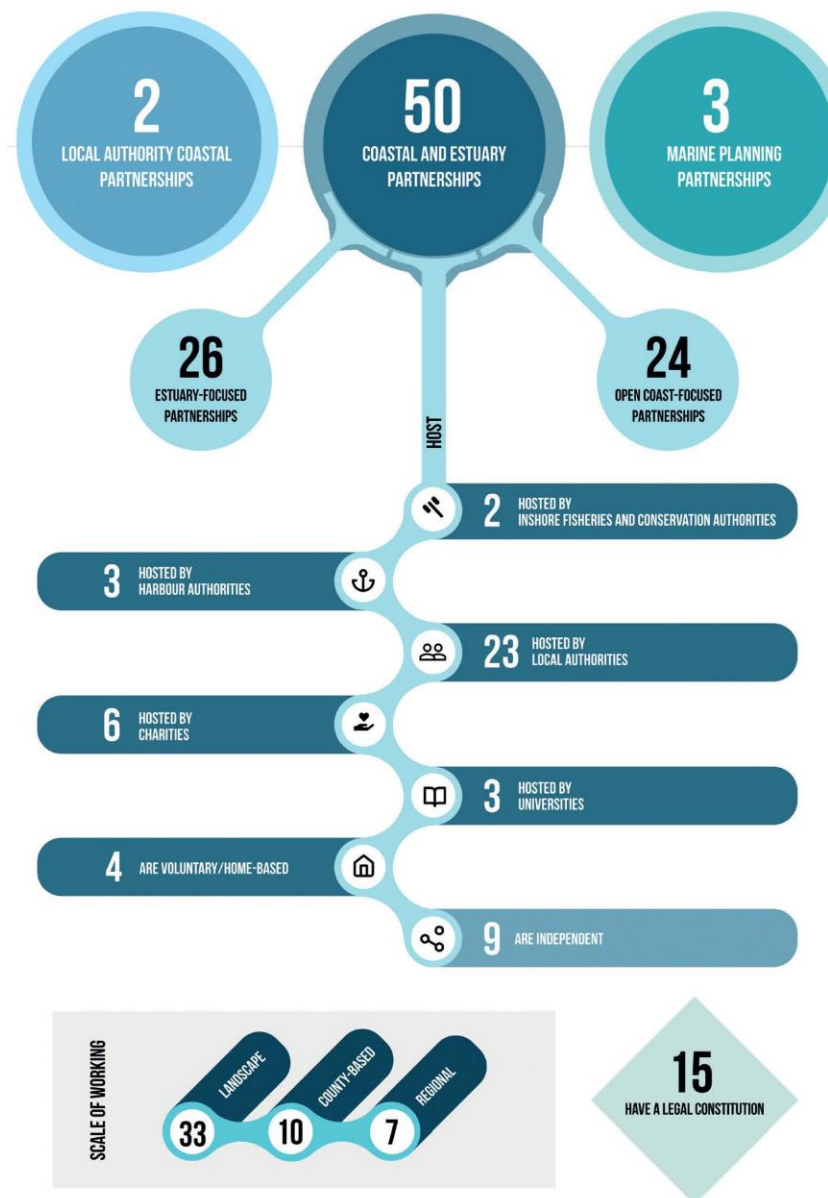
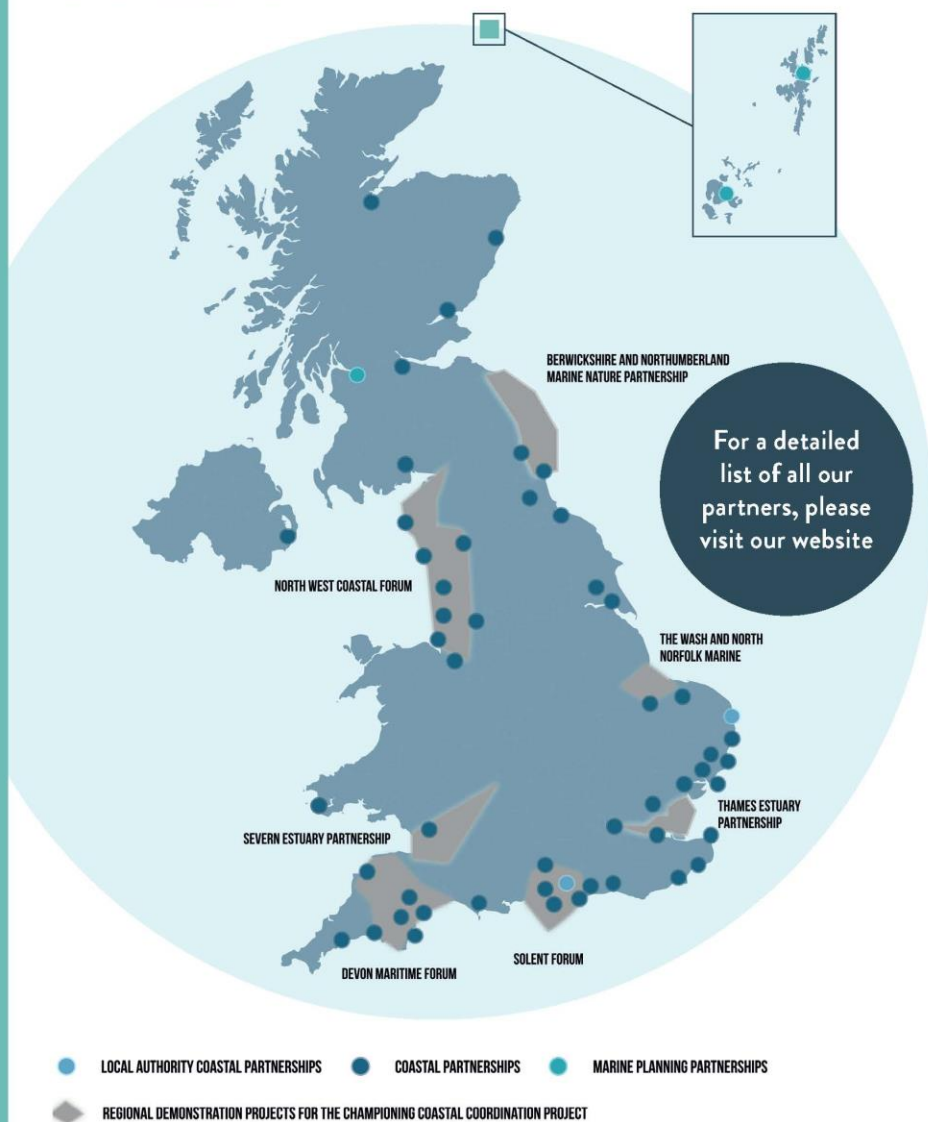
“Voices from the frontline  
making an impact”





# UK Coastal and Estuary Partnerships

Source: CPN audit 2020-2022



## Estuary & Coast Partnerships

- Cross-sectoral
- Place-based.

## Purpose

- sustainable use
- integrated, coordinated management.

# STRENGTHEN

MORECAMBE BAY  
PARTNERSHIP

Headlands to Headspace

Your Bay,  
get involved



MORECAMBE BAY  
PARTNERSHIP

Headlands to Headspace

Discovering the  
Bays old ways











BAY CYCLE WAY









# CYCLING UNDER BIG SKIES



MØRECAMBE BAY



Photo - Steve Barber











**Saturday 12th & 19th March**  
Victoria Hall, Grange-over-Sands  
FREE training for volunteers





**MORECAMBE BAY  
PARTNERSHIP**

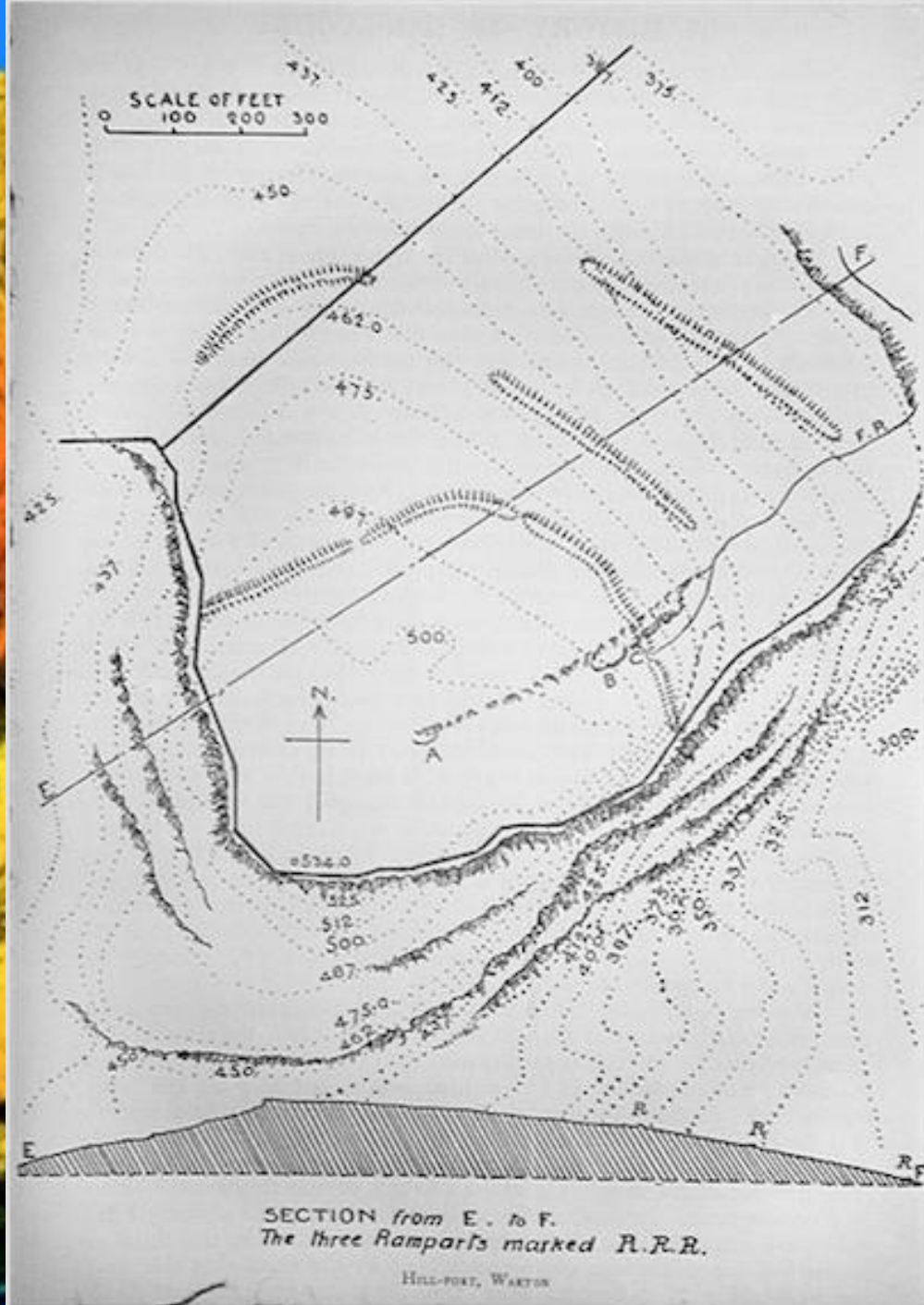
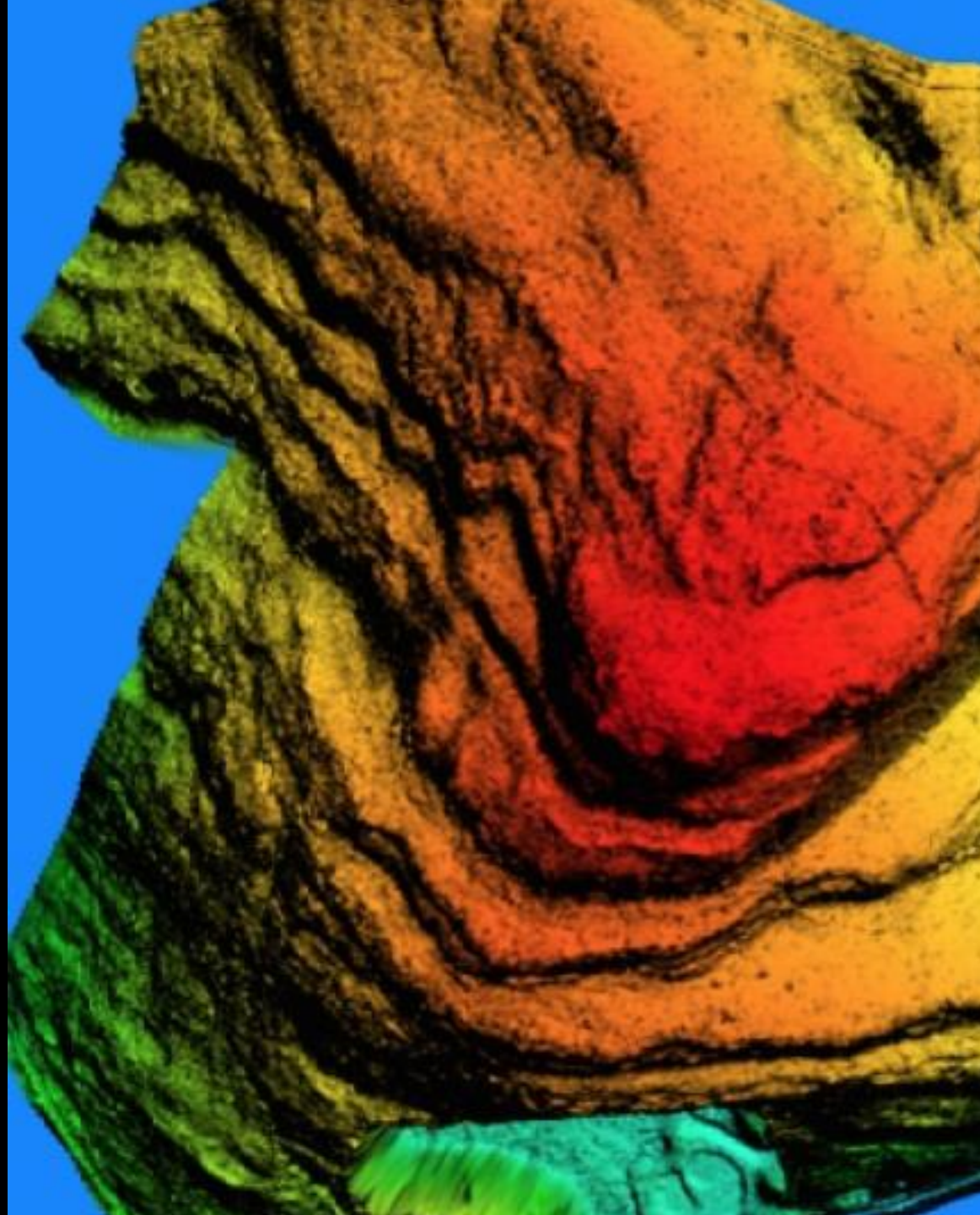


# CONSERVE



**Kirkhead Tower, Kents Bank during conservation works.** Image Susannah Bleakley









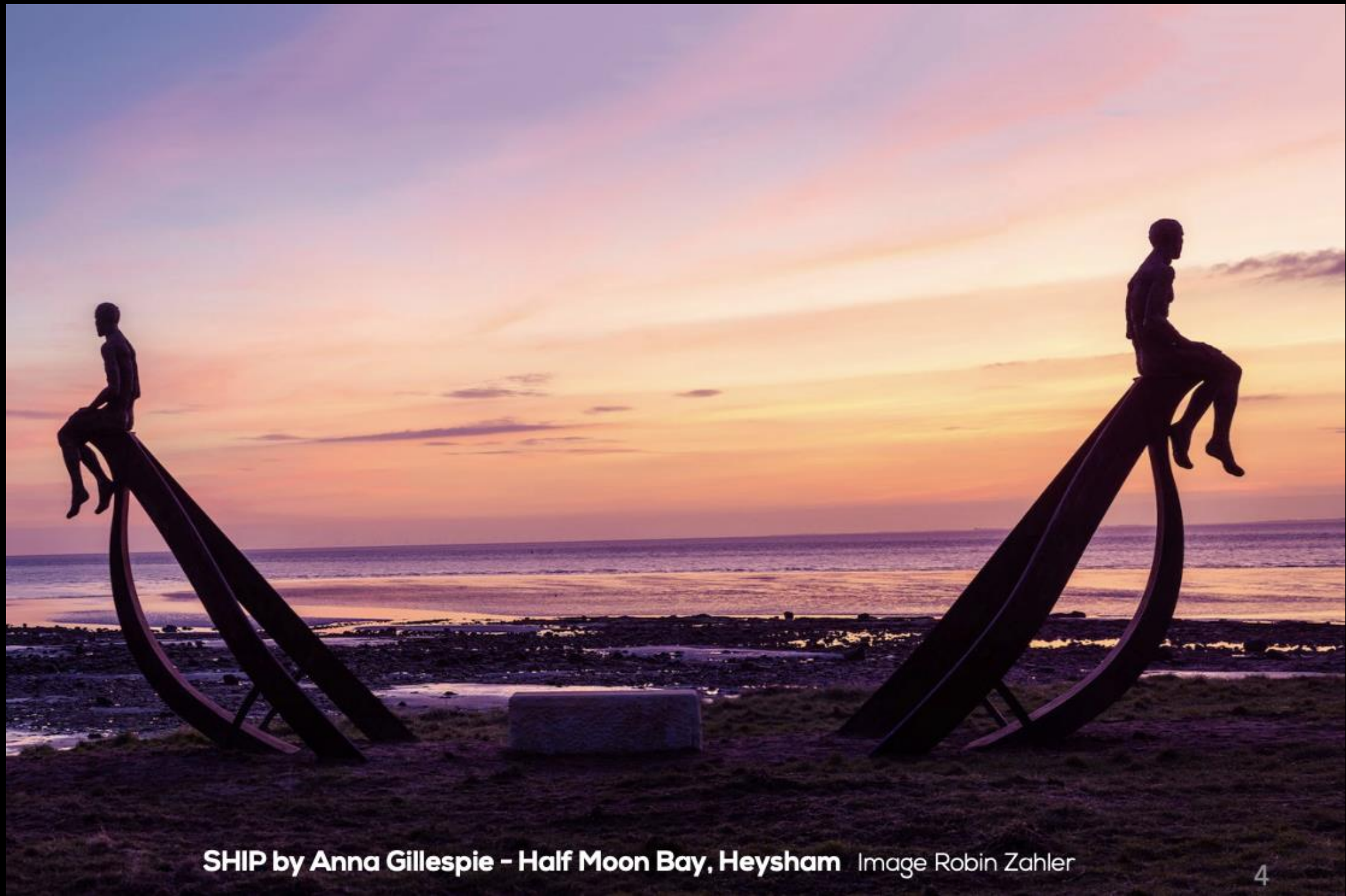
# CELEBRATE



**Chris Drury's Horizon Line Chamber at Sunderland Point.**

Image Robin Zahler





**SHIP by Anna Gillespie – Half Moon Bay, Heysham** Image Robin Zahler





**Longways | Crosswise dance by Jenny Reeves & Ellen Jeffrey, Silverdale Lots. Image Robin Zahler**





**Larking about at the end of the multi-school philosophy conference, Image Susannah Bleakley**



# CONNECT



Julius Barratt with Susannah opening the new Trumper hire and trails at Roudsea Image Ian Wood



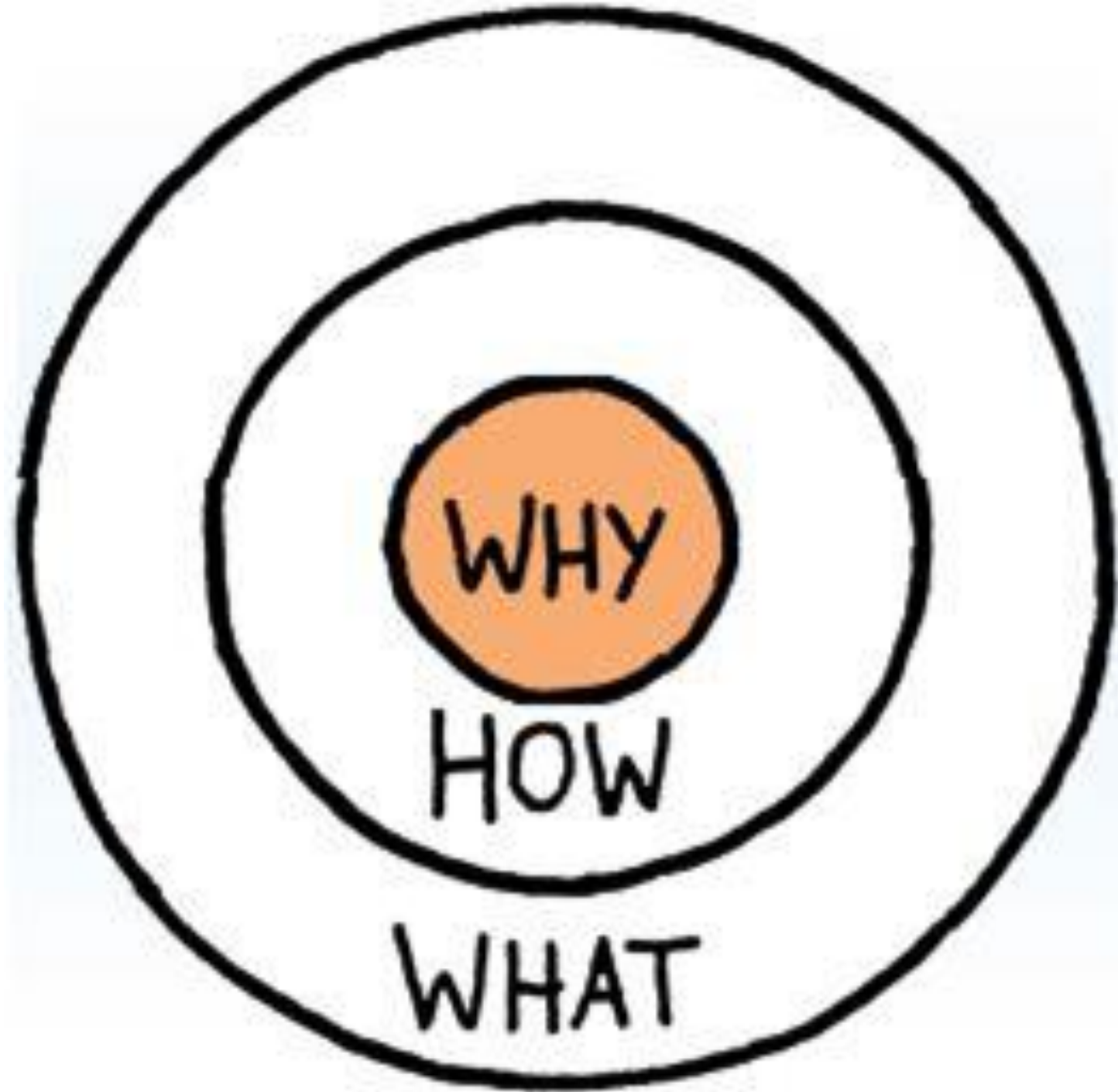
A bronze sculpture of a seated man, Anna Gillespies's SHIP, overlooking a bay under a cloudy sky. The sculpture is positioned on the right side of the frame, with the man's body angled towards the left. He is seated on a dark, angular base that resembles a ship's hull. The background features a wide expanse of water, a distant shoreline with a prominent hill, and a sky filled with large, dramatic clouds. The overall mood is contemplative and serene.

**Anna Gillespies's SHIP at Half Moon Bay, Heysham.**  
Image Keith Stanley.

# Effective Partnerships?

---

- Need clout
- Need to be at the centre of things
- People that make things happen





# Barriers?



- Non-statutory, too busy
- Funding for jobs, growth, heritage, environment.



**No time**



**No money**



## Championing Coastal Coordination: Expression of Interest

### Overview

#### Championing Coastal Coordination

The Championing Coastal Coordination (3Cs) initiative is a programme of work that is being led by the Environment Agency with support from Natural England, the Marine Management Organisation (MMO) and the Association of Inshore Fisheries and Conservation Authorities (IFCAs).

It is a collaboration seeking to enhance and progress coordination for coastal sustainability and resilience in England. This is in recognition of the major challenges that we face in our coastal and estuarine environments.

The coast consists of many highly interconnected landscapes and seascapes, with a diverse mix of ownership and governance arrangements. The management of coastal issues poses a set of complex challenges unlike those inland.

The number and diversity of public and private sector interests is often highest at the coast, with a proportionate increase in the complexity of planning and management in this highly contested space.

Closed 30 Nov 2022

Opened 2 Nov 2022

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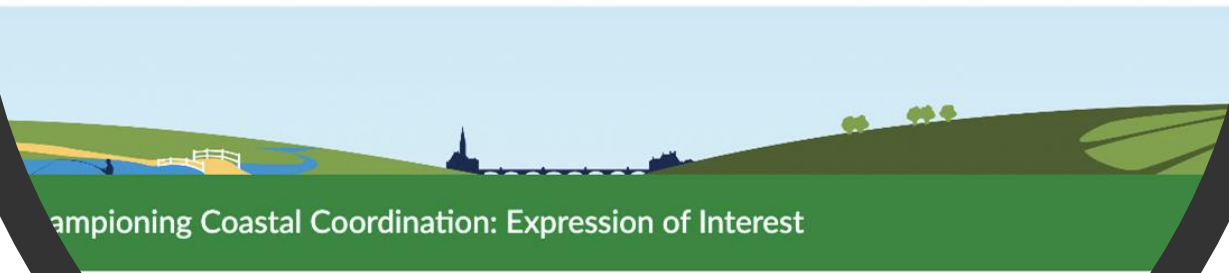
#### Contact

[3cs@environment-agency.gov.uk](mailto:3cs@environment-agency.gov.uk)

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## Championing Coastal Coordination: Expression of Interest

W

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Closed 30 Nov 2022

Opened 2 Nov 2022

Contact

[3c](#)

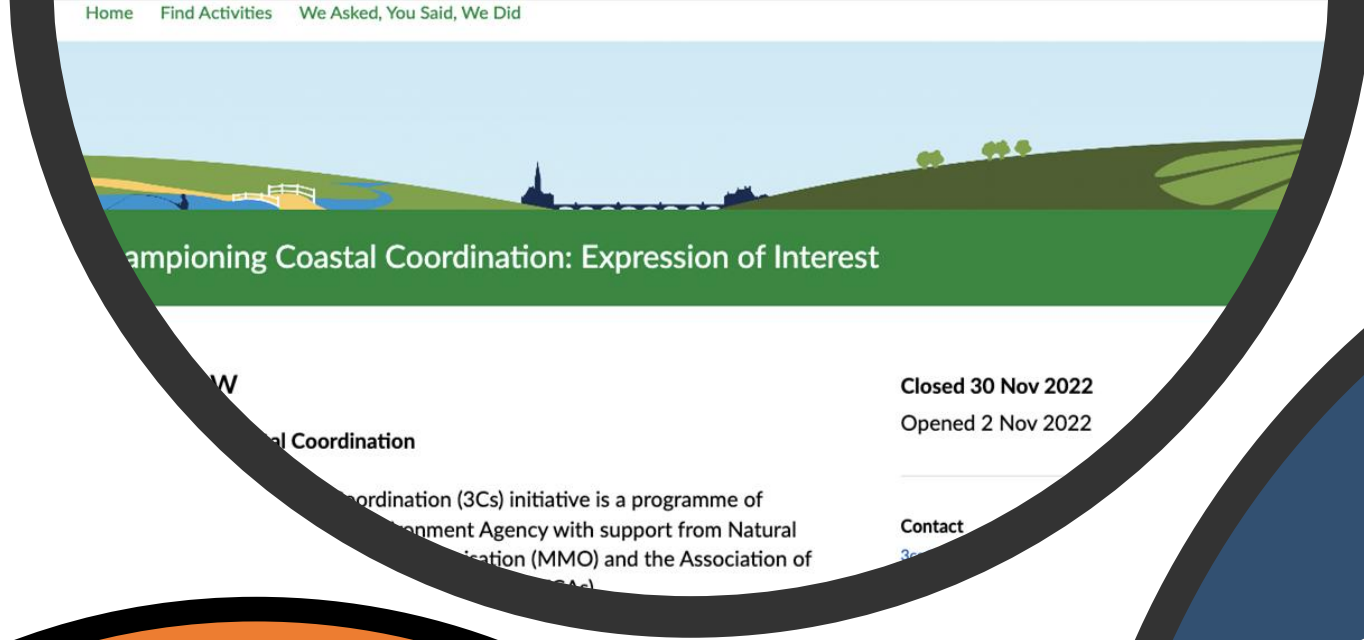
# Opportunity

# 3Cs Championing Coastal Cordination

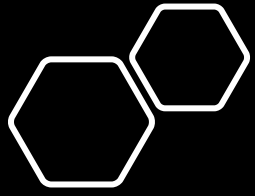
# Opportunity

## 3Cs, opportunity to

- Evidence value
- Support integration
- Strengthen capacity







3Cs

You



[Home](#)   [Find Activities](#)   [We Asked, You Said, We Did](#)















# PANEL DEBATE

## GOVERNING FOR COMMUNITIES: Integration on the Frontline

*How can we manage the future of our  
coast in an integrated way?*

### CHAIR

Amy Pryor, Thames Estuary Partnership

James Grellier, Exeter Medical School

Caroline Douglass, Environment Agency

Beccy MacDonald-Lofts, LGA Special Interest Group

Dr Emma McKinley, Cardiff University

Susannah Bleakeley, Independent



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# Q&A

**[www.slido.com](https://www.slido.com)**

**For online and in-person delegates**

**Enter code: 3390463**

**Headline and Reception Sponsors**





# Slido Poll

## What would most improve coordinated coastal management, and accelerate climate resilience [choose 3 options]?

- Integrated societal, economic and environmental policies;
- Blended funding and investible finance;
- Significant awareness raising of climate issues
- Improved communications and enhancing collaborative working
- De-silo-ing of information
- Integrated approaches in education and training;
- UK govt. cross departmental working group;
- Minister for the Coast
- Participative, community-led decision making
- All of the above
- Other



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# Coastal Futures Conference

London & livestream

25-26th January 2023

Keynote speakers



Coastal  
Futures  
Conference  
2023





# Coastal Futures Conference Livestream & London 25-26th January 2023 Keynote: Hannah Rudd



#CoastalFutures23





# BRITAIN'S LIVING SEAS

CREATING CONNECTION WITH OUR SHORES &  
EMPOWERING EVERYDAY MARINE CONSERVATIONISTS

Hannah Rudd  
Marine Scientist & Author  
@hannahsrudd  
[www.hannahrudd.com](http://www.hannahrudd.com)

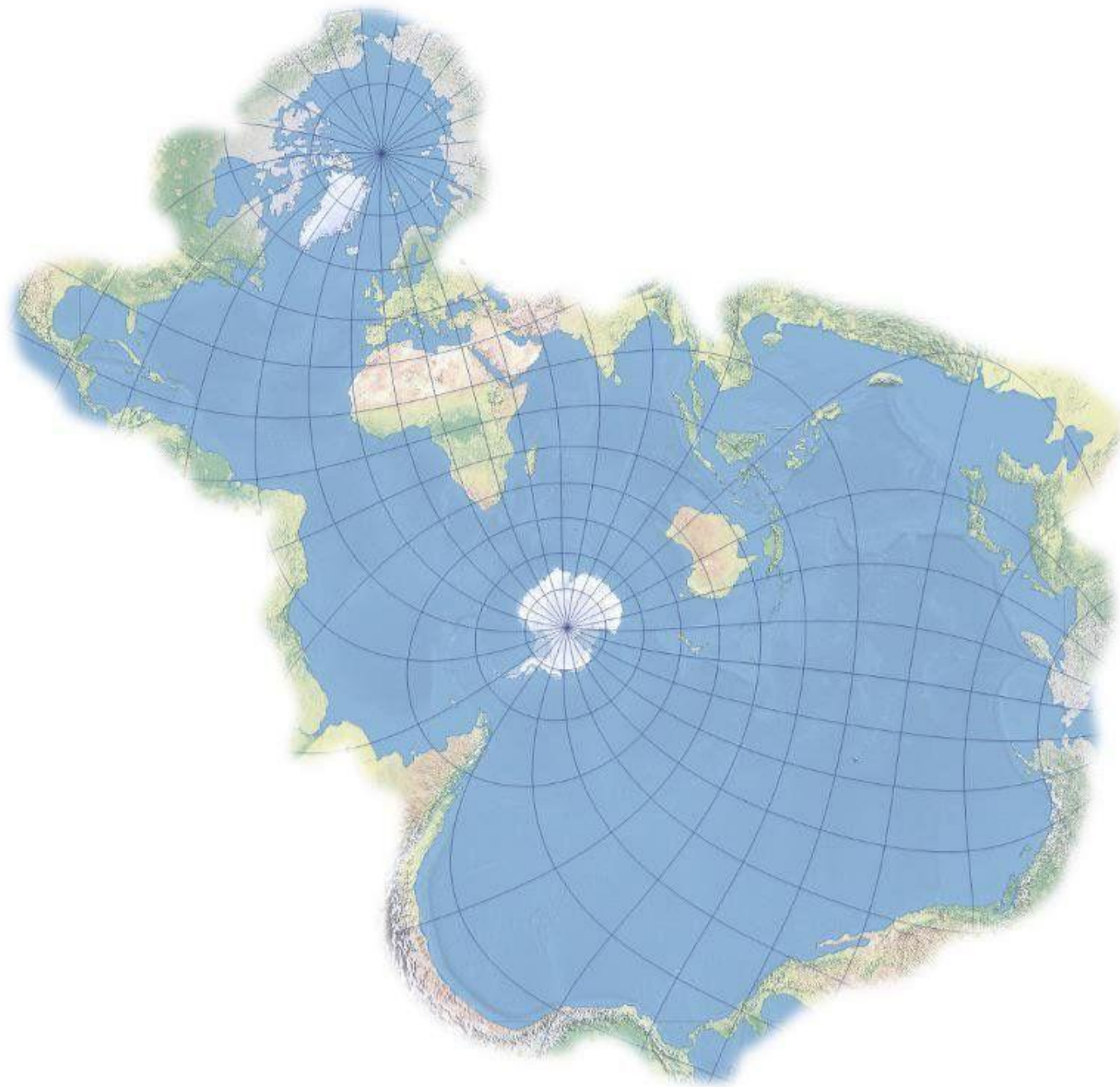




**“HOW INAPPROPRIATE TO  
CALL THIS PLANET EARTH,  
WHEN IT IS CLEARLY  
OCEAN”**

**- ARTHUR C. CLARKE**





























































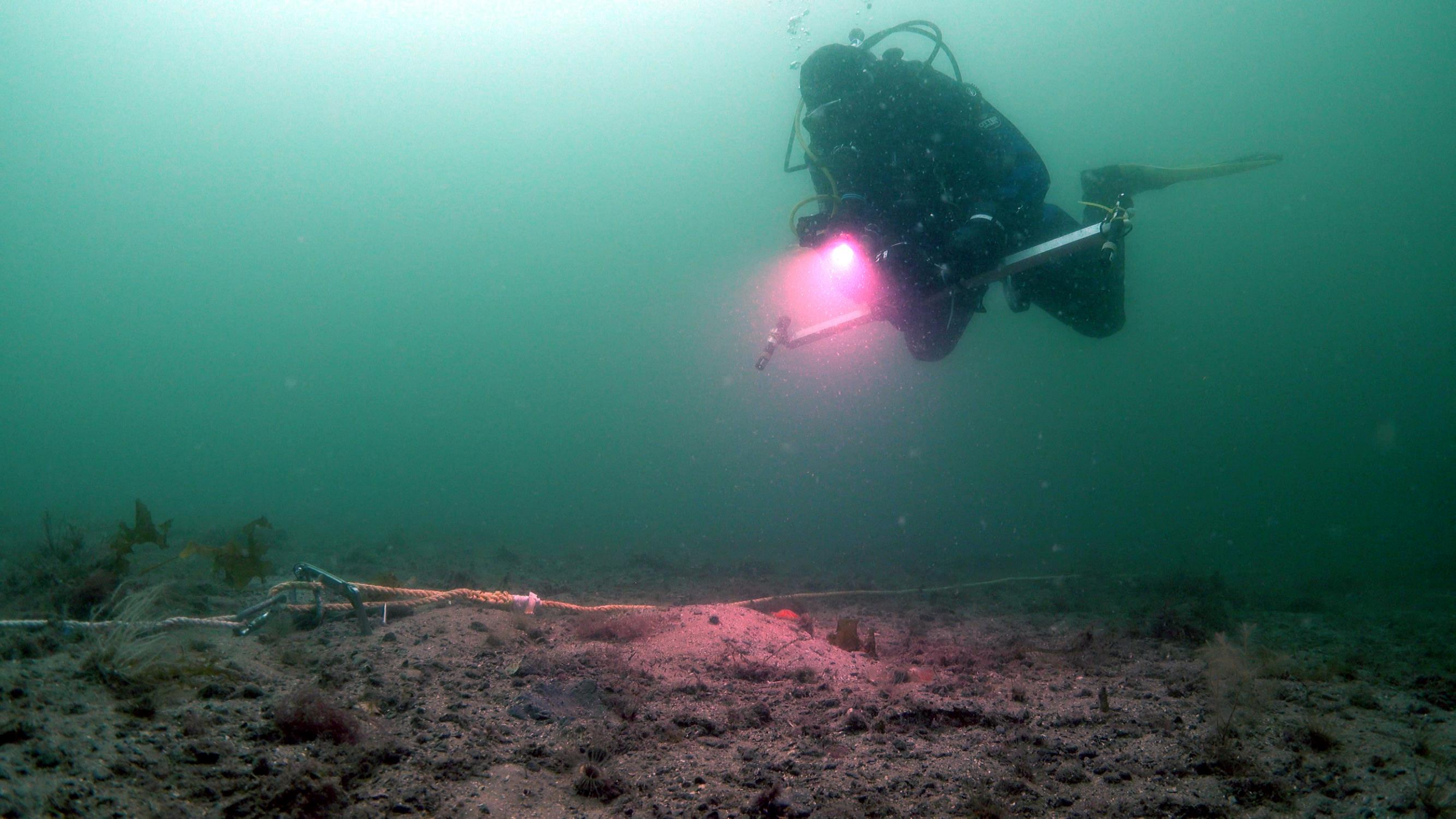




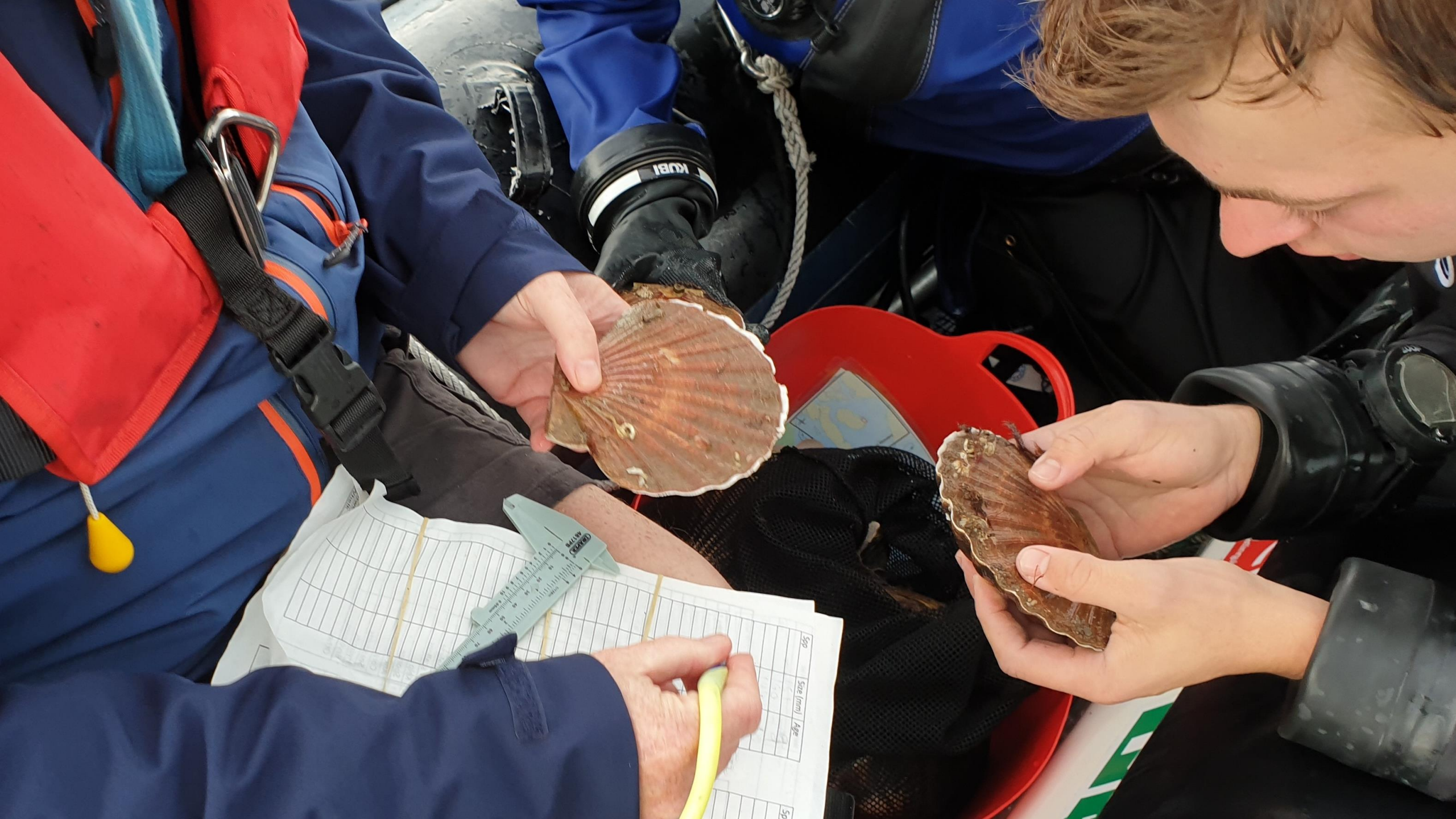






















# Explore - Learn - Appreciate - Protect



Cornwall

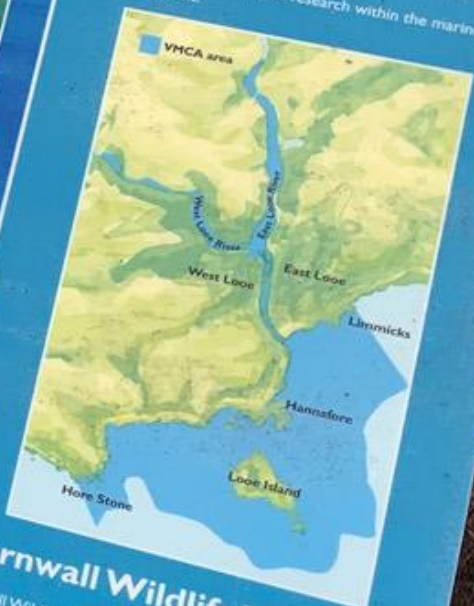
## VMCA Information

It is because of the richness in wildlife that the Voluntary Marine Conservation Area (VMCA) was established here in 1995. The Looe VMCA embraces almost 5 km of coastline and includes Looe Island Nature Reserve and the East and West Looe Rivers to their tidal limits.

The marine environment is in balance between the pressures from human use and the need to protect the wildlife that exists there. We can maintain this delicate balance by encouraging sensible and sustainable use of our sea through the VMCA.

Each VMCA aims to:

- protect and conserve the marine environment
- raise awareness and increase understanding of the marine environment
- encourage education and research within the marine environment



## Cornwall Wildlife Trust

Cornwall Wildlife Trust is supporting Cornwall's VMCA's through our Living Seas marine conservation programme.

- We work to protect Cornwall's seas in three ways:
- we collect data on marine wildlife
- we create awareness of the threats to marine life and habitats
- we campaign for better protection for our marine

For more information go to [www.cornwall-wildlife-trust.org.uk](http://www.cornwall-wildlife-trust.org.uk)

### Seabirds

The rugged cliffs of Looe Island Nature Reserve provide breeding sites for important seabird colonies, notably colonies of great black-backed gulls and the second largest colony of great black-backed gulls in Cornwall. Fulmars, gannets and rock pipits also breed on the island. The exposed at low tide, provides feeding grounds for resident terns and little terns and for visiting migratory birds such as curlew, redshank and whimbrel.



Fulmar

Great black-backed gull

### Seagrass

Seagrasses are marine plants which can sometimes be confused with seaweed but they are in fact very different. They have the same basic structure as many plants on land - they have roots and leaves, and produce flowers, fruit and seeds - but they live their entire life cycle underwater. We are very lucky to have a substantial seagrass bed within the Looe VMCA boundary.

Underwater seagrass meadows form incredibly important habitats. The networks of roots and leaves in a meadow provide ecological niches for a wide range of associated plants and animals such as pipe fish and starfishes, so are important in maintaining coastal biodiversity.



Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

Starfish

## Seashore Code

When exploring the seashore we must remember the special place so we find it. This is why we follow the Seashore Code. It is why the seashore is so special and we must do our best to keep it that way. We can help by following the Seashore Code and remembering the following:

- Leave the animals and seaweeds where you find them.
- Always replace covered rocks - this is very important!
- Take your litter home with you or put it in a bin.
- Use only photos, laser, only binoculars.
- Be careful on the shore as it is so wet - the tide and help us on the beach or around the shore.
- Report anything unusual spotted on the beach or around the shore.







THERE IS NO  
PLANET B



Like the people...

...ORDER TO HAVE A MORE LIVABLE ENVIRONMENT,  
THROUGH A SUSTAINABLE SOCIETY, THROUGH THE FUTURE  
GENERATION, THROUGH THE SUPPORT OF ALL PEOPLE  
AND TO SECURE THE WELL-BEING OF LIFE FOR CURRENT AND  
FUTURE GENERATIONS TO MEET DEMANDS A

GREEN NEW  
DEAL

There  
NO  
PLANET





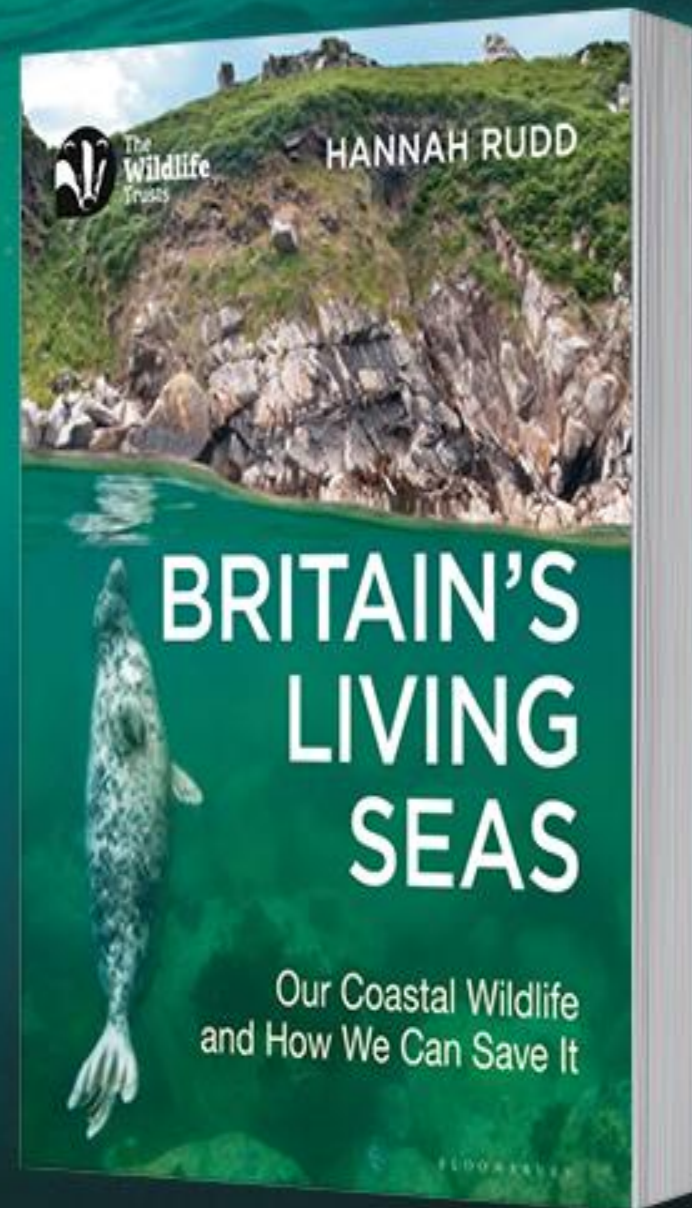




# BRITAIN'S LIVING SEAS

Our Coastal Wildlife  
and How We Can Save It

BLOOMSBURY WILDLIFE







25th & 26th January, 2023 | Royal Geographical Society, London & online



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## Coastal Futures 2023

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NATURAL  
ENGLAND

# WINE RECEPTION

## 17:30 – 19:30

*Please vacate the building by 20:00*

25th & 26th January, 2023 | Royal Geographical Society, London & online



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