

# COP26 VIRTUAL OCEAN PAVILION EXHIBITS

## Plymouth Marine Laboratory



### Description

Earth's ocean plays a key role in regulating climate whilst its ecosystems simultaneously have to deal with climate change, increasing human exploitation, coastal urbanization and huge pressures from marine litter and pollution. As humans strive to manage these multiple threats it is vital to understand the interplay between the climate, the ocean and its ecosystems and resources to support sustainable ocean management. At Plymouth Marine Laboratory (PML), we provide timely and relevant scientific research and advice for a sustainable ocean future through an integrated system of observations, experimentation and modeling. We cover marine life and processes at varying scales, from local to global, molecules to space, the poles to the tropics and lakes to oceanic environments. An important focus for PML is on understanding and explaining the impacts of climate change to inform policy decisions needed to adapt and mitigate for climate change in addition to developing technologies and novel applications in support of addressing the climate crises, including blue carbon, offshore renewable energy, carbon capture and storage, and carbon dioxide removal. To help bring evidence of the latest ocean climate science to key stakeholders, PML has attended every United Nations Framework Convention on Climate Change (UNFCCC) Conference of Parties (COP) since 2009, participating in, organizing and facilitating numerous ocean events. Our scientists have key roles in writing UN Intergovernmental Panel on Climate Change (IPCC) assessment reports which inform COP negotiations, including the recent: <https://www.ipcc.ch/report/sixth-assessment-report-working-group-i/> . We also develop briefing papers, such as: 'Why the ocean matters in climate negotiations: ['Why the Ocean Matters in Climate Negotiations.'](#)' PML is internationally renowned as a crucial player in highlighting the importance of the relationship between the ocean, climate, nature and society. To find out more about PML visit: <https://www.pml.ac.uk> and/or follow us on twitter @PlymouthMarine.

**Plymouth Marine Laboratory Website:** <https://www.pml.ac.uk>  
**(Latest Story) Sea ice concentration found to impact the exchange of gases related to climate:** <https://www.pml.ac.uk/News/Sea-ice-concentration-found-to-impact-the-exchange>

**Research excellence supporting a sustainable ocean:** <https://pml.ac.uk/science>  
**Western Channel Observatory:** <https://www.westernchannelobservatory.org.uk>

**New report highlights why the ocean matters in climate negotiations:** <https://www.pml.ac.uk/News/New-report-highlights-why-the-ocean-matters-in-climate>

**Arctic Research Example:** <https://www.arctic.ac.uk/research/mosaic/mosaic-sym-pel/>

**IPCC - Intergovernmental Panel on Climate Change:** <https://www.ipcc.ch>

**UN Ocean Dialogue:** <https://unfccc.int/event/ocean-and-climate-change-dialogue-to-consider-how-to-strengthen-adaptation-and-mitigation-action>

**Who we are (PML):** <https://www.pml.ac.uk/who-we-are>

**Twitter:** <https://twitter.com/PlymouthMarine>

**LinkedIn:** <https://www.linkedin.com/company/plymouth-marine-laboratory-&-pml-applications-ltd>

**Youtube:** <https://www.youtube.com/user/PMLAdministrator/videos>

## Videos

1. Welcome to Plymouth Marine Laboratory: [https://www.youtube.com/watch?v=x9Wiqg\\_WWuc&t=9s](https://www.youtube.com/watch?v=x9Wiqg_WWuc&t=9s)
2. Why the Ocean Matters: <https://www.youtube.com/watch?v=X--NXhPkkdE>
3. The Sonification of the Western Channel Observatory: <https://www.youtube.com/watch?v=rAvFIP2s5Vo>
4. Plymouth Marine Laboratory's Ocean Acidification Research; an overview by Dr Helen Findlay: <https://www.youtube.com/watch?v=BCs1zpvOtnq>
5. Dr Tom Vance on his career in marine science: <https://www.youtube.com/watch?v=DFI50ECWG6Y&t=2s>
6. Award-winning animation -The other CO2 problem: [https://www.youtube.com/watch?v=F5w\\_FgpZkVY](https://www.youtube.com/watch?v=F5w_FgpZkVY)
7. James Cameron on the importance of science-based solutions for a sustainable ocean future: [https://www.youtube.com/watch?v=J7VvnjquV\\_k&t=1s](https://www.youtube.com/watch?v=J7VvnjquV_k&t=1s)
8. Resilient Ocean - The Future Autonomous at Sea Technologies (FAST) cluster in Plymouth: <https://www.youtube.com/watch?v=VEUqNEbAReU>

## Documents

1. Brief summary strategy Plymouth Marine Laboratory: <https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635169462pml-short-overview-strategy-pdf1635169462.pdf>
2. About Plymouth Marine Laboratory: <https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635169592pml-brochure-pdf1635169592.pdf>

3. Ocean Acidification Monitoring in the North East Atlantic:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635198964ocean-acidification-monitoring-in-the-north-east-atlantic-pdf1635198964.pdf>
4. Atlantic Meridional Transect:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635198989atlantic-meridional-transect-pdf1635198989.pdf>
5. Western Channel Observatory:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635198998western-channel-observatory-pdf1635198998.pdf>
6. Earth observation:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199012earth-observation-pdf1635199012.pdf>
7. Integrated observations for a sustainable ocean future:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199033integrated-observations-for-a-sustainable-ocean-future-pdf1635199033.pdf>
8. Marine Plastics:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199052plastics-pdf1635199052.pdf>
9. Briefing paper: Nature Based Solutions:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199080nbs-pdf1635199080.pdf>
10. Briefing paper: Why the Ocean matters in climate negotiations:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199095ocean-pdf1635199095.pdf>
11. Briefing paper: Space-based Earth Observations for climate security:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635199363media-792662-smxx-pdf1635199363.pdf>
12. Youth Guide to the Ocean:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635200446youth-guide-to-the-ocean-pdf1635200446.pdf>
13. State of the Cryosphere 2021:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635202086report2021-statecryo21-211024b-a4-high-res-for-web-pdf1635202086.pdf>
14. Ocean Acidification Research for Sustainability:  
<https://cop26oceanpavilion.vfairs.com/en/hall#>
15. Briefing paper - Consideration of biogeochemical and ecological impacts of sea-ice decline:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635371992bepsii-policybrief-2021-pdf1635371992.pdf>
16. Climate Services for a Net Zero Resilient World:  
<https://vepimg.b8cdn.com/uploads/vjfnew/6281/content/docs/1635519748cs-n0w-cop26-flyer-pdf1635519748.pdf>