



Wet Carbon Data Stakeholder Needs, Gaps, and Opportunities

Brown et al 2023 *Environ. Res. Lett.* <https://doi.org/10.1088/1748-9326/ace208>



Science Question

Are the WC datasets and research adequate to support the current decision-making processes?
What is the current knowledge and awareness of organizations about satellite-derived carbon datasets?
What are the gaps and opportunities to further engage the community?

Analysis

We conducted a desk review of individuals and organizations who are part of the scientific community and who use WC data from funded CMS activities. Our primary objective was to gain valuable insights into the ways in which stakeholders involved in WC utilize information in their work, and to identify any existing unmet information requirements.

Results

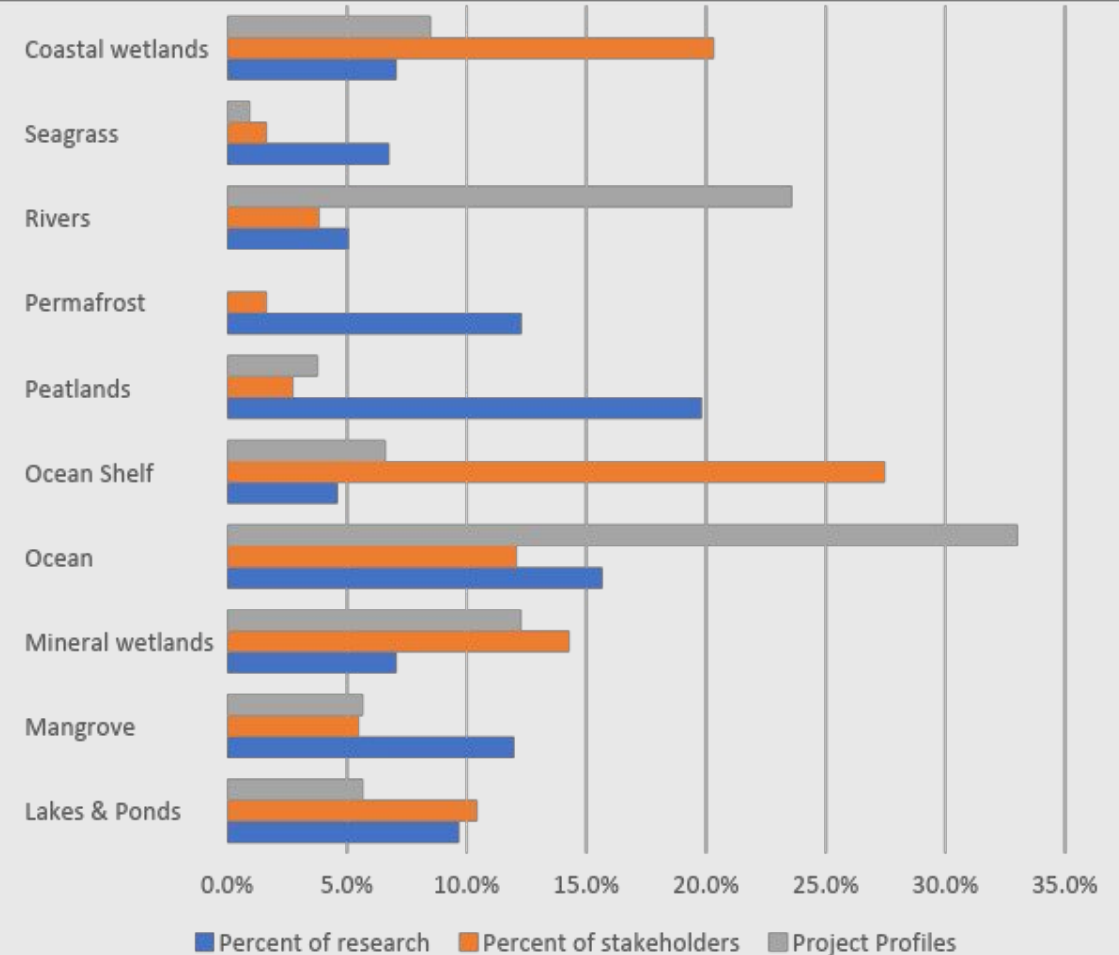
Seagrass, permafrost, and peatlands appear has the **fewest stakeholder organizations** working on them.
Carbon in **tidal marshes and wetlands** are an important focus of our stakeholders, while there is a noticeable **lack of ocean or ocean shelf stakeholders** despite their critical role in the carbon cycle.

Significance

Lack of knowledge about emerging carbon products in seagrass, oceans, rivers, lakes and permafrost in the stakeholder community means that there is a mismatch between research and application of carbon datasets. **More work needs to be done to drive interest and uptake of datasets as they are developed by CMS and other programs.**

Acknowledgements

This research was supported by the NASA Carbon Monitoring System Poulter 80NSSC20K0853; Mitchell & Gustafson, 80NSSC20K0013.



Distribution of 182 stakeholder institutions either currently working or interested in the ten topical areas, 106 CMS funded projects, and 651 research papers described in the academic review by Campbell et al (2022).