

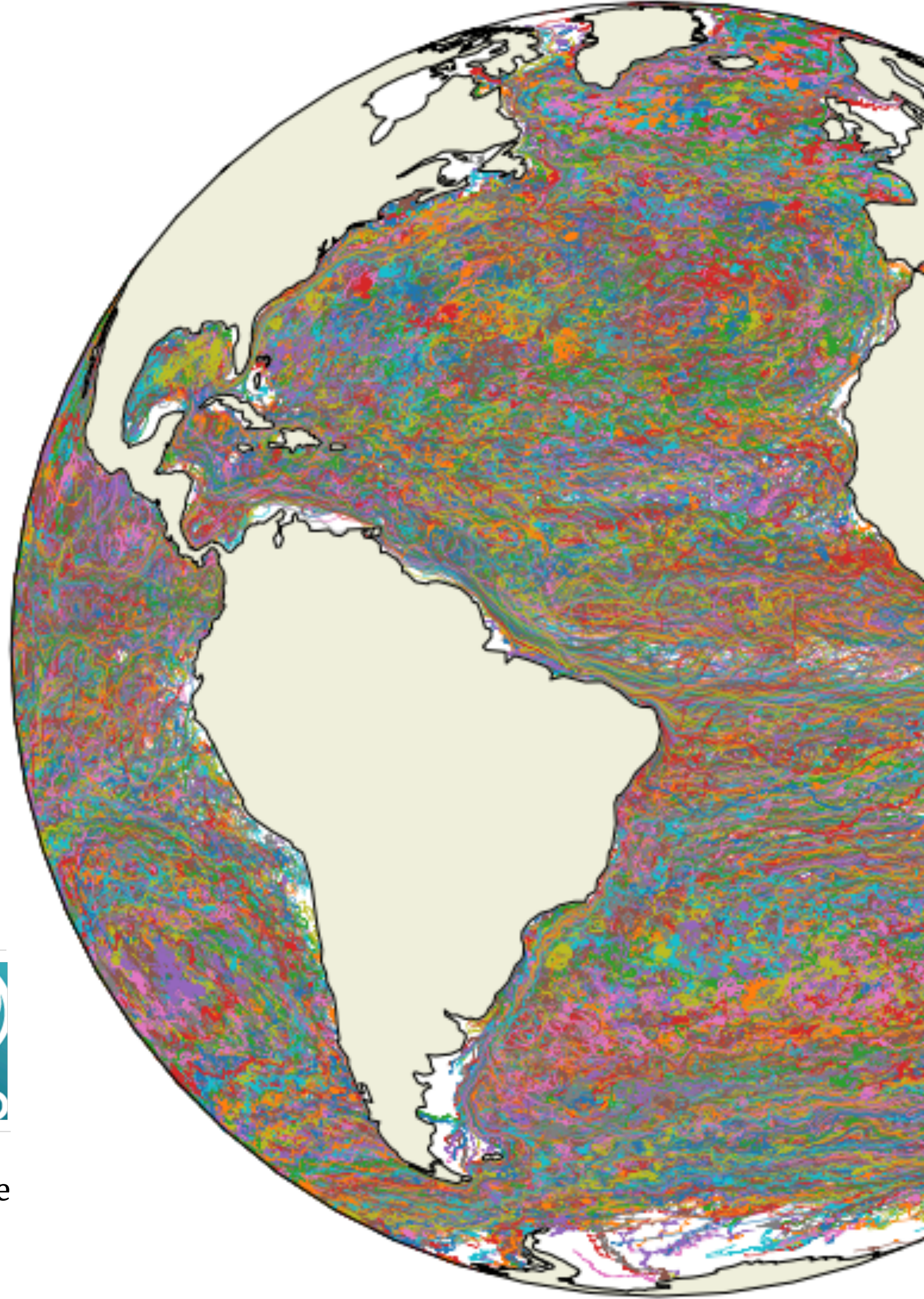
# Open code from a journal submission's perspective

Erik van Sebille and the [parcels-code.org/utrechtteam](https://parcels-code.org/utrechtteam)

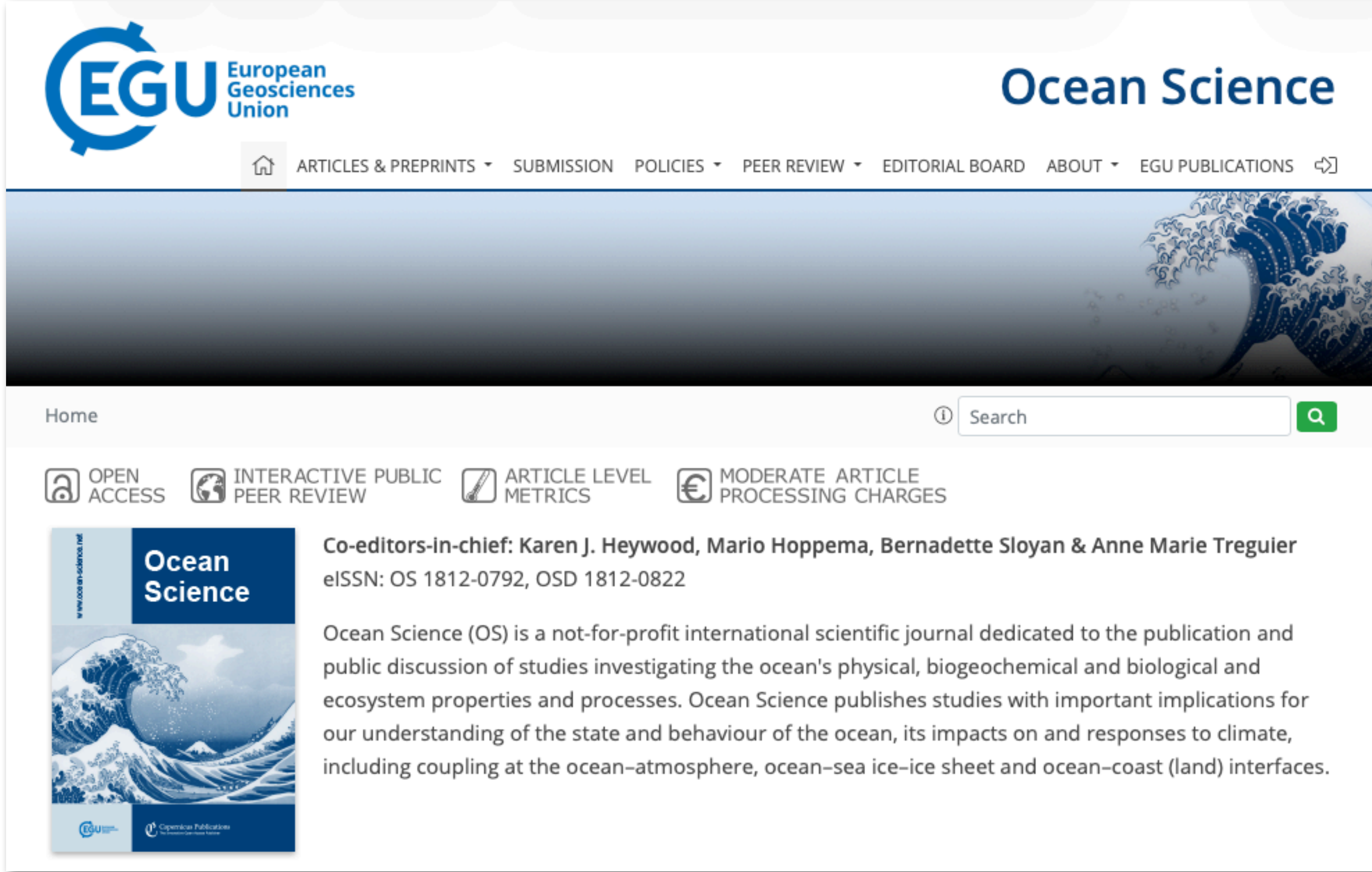


Institute for  
Marine and Atmospheric  
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Freudenthal Institute



# I am a Topic Editor at Ocean Science



The screenshot shows the homepage of the Ocean Science journal website. At the top left is the EGU European Geosciences Union logo. To the right is the journal title "Ocean Science". Below the logo is a navigation menu with items: ARTICLES & PREPRINTS, SUBMISSION, POLICIES, PEER REVIEW, EDITORIAL BOARD, ABOUT, and EGU PUBLICATIONS. A large banner image of a blue wave is visible in the background. Below the banner is a search bar with the text "Search" and a magnifying glass icon. Underneath the search bar are four icons with text: "OPEN ACCESS", "INTERACTIVE PUBLIC PEER REVIEW", "ARTICLE LEVEL METRICS", and "MODERATE ARTICLE PROCESSING CHARGES". The main content area features a cover image of the journal on the left and text on the right. The text identifies the co-editors-in-chief as Karen J. Heywood, Mario Hoppema, Bernadette Sloyan & Anne Marie Treguier, and provides the eISSN numbers: OS 1812-0792, OSD 1812-0822. A paragraph describes the journal as a not-for-profit international scientific journal dedicated to the publication and public discussion of studies investigating the ocean's physical, biogeochemical and biological and ecosystem properties and processes. It mentions that Ocean Science publishes studies with important implications for our understanding of the state and behaviour of the ocean, its impacts on and responses to climate, including coupling at the ocean-atmosphere, ocean-sea ice-ice sheet and ocean-coast (land) interfaces.

# Ocean Science's Data policy

POLICIES

## Data policy

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 Search



The output of research is not only journal articles but also data sets, model code, samples, etc. Only the entire network of interconnected information can guarantee integrity, transparency, reuse, and reproducibility of scientific findings. Moreover, all of these resources provide great additional value in their own right. Hence, it is particularly important that data and other information underpinning the research findings are "findable, accessible, interoperable, and reusable" (FAIR) not only for humans but also for machines.



### Prepare your assets

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#### Software and model code ▶

Authors are encouraged to deposit software, algorithms, and model code in FAIR-aligned repositories/archives whenever possible. These research outputs are then cited in the manuscript using the received DOI and included in the reference list. The manuscript must then include a section entitled "Code availability" or, in the case of data and code, "Code and data availability".

# What to do with code?

## Prepare your assets

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# Github Releases

The screenshot shows the GitHub release page for 'Parcels v3.1.4'. The page header includes navigation links for Code, Issues (114), Pull requests (6), Agents, Discussions, Actions, Projects, Wiki, Security, Insights, and Settings. The release title is 'Parcels v3.1.4: a Lagrangian Ocean Analysis tool for the petascale age', marked as 'Latest'. The release description states it is a minor update from 'Parcels v3.1.3', fixing dependency metadata for pip builds. The 'What's Changed' section lists an update to dependency metadata by @VeckoTheGecko in pull request #2139. The 'Contributors' section lists VeckoTheGecko. The 'Assets' section contains two source code files: 'Source code (zip)' and 'Source code (tar.gz)', both dated August 7, 2025.

The banner for Codeberg features a blue mountain background. The main heading is 'Software development, but free!'. Below this, it states that Codeberg is a non-profit, community-led effort providing services like Git hosting (using Forgejo), Pages, CI/CD, and Weblate. The Codeberg logo is in the top right, with links for 'BLOG' and 'DOCS'. A yellow 'Register now.' button is prominent. Three columns highlight core values: 'NON-PROFIT' (maintained by Codeberg e.V. in Berlin, Germany), 'COMMUNITY' (open to developers, artists, and professionals), and 'RESPECT' (no tracking, data control, and European hosting). A statistics bar at the bottom shows 471,817 projects, 299,947 users, 1,300+ e.V. members, and is powered by Forgejo.

# The solution:



## Passionate about Open Science!

Built and developed by researchers, to ensure that everyone can join in Open Science.

The OpenAIRE project, in the vanguard of the open access and open data movements in Europe was commissioned by the EC to support their nascent Open Data policy by providing a catch-all repository for EC funded research. CERN, an OpenAIRE partner and pioneer in open source, open access and open data, provided this capability and Zenodo was launched in May 2013.

In support of its research programme CERN has developed tools for Big Data management and extended Digital Library capabilities for Open Data. Through Zenodo these Big Science tools could be effectively shared with the long-tail of research.

## Open Science knows no borders!

The need for a catch-all is not restricted to one funder, or one nation, so the concept caught on, and Zenodo rapidly started welcoming research from all over the world, and from every discipline.

The digital revolution has necessitated a retooling of the scholarly processes to handle data and software, but this is proceeding at varying speeds across different communities, disciplines, and nations. To ensure no one is left behind through lack of access to the necessary tools and resources, Zenodo makes the sharing, curation and publication of data and software a reality for all researchers.

### The name

Zenodo is derived from [Zenodotus](#), the first librarian of the Ancient Library of Alexandria and father of the first recorded use of metadata, a landmark in library history.

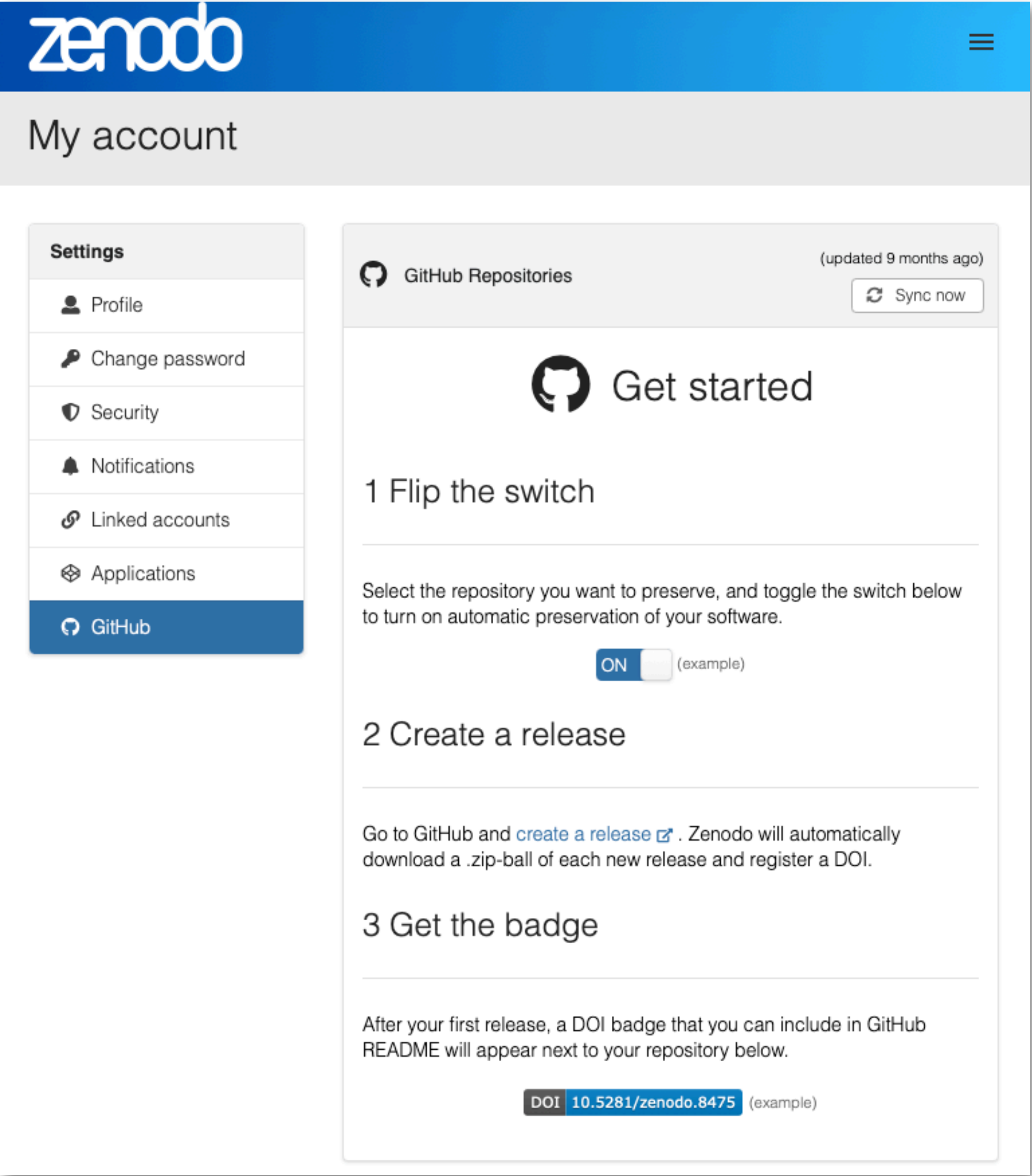
### Open in every sense

Zenodo code is itself open source, and is built on the foundation of the [InvenioRDM](#) research data management repository, which is also open source. The code, work-in-progress and open issues are shared openly in [GitHub](#), and contributions to any aspect are welcomed from anyone.

All meta data is openly available under CC0 licence, and all open content is openly accessible through open APIs.

Open to all suggestions for new features, via GitHub, and especially open to all contributions of code via pull requests!

# Combine GitHub and Zenodo



The screenshot shows the Zenodo user interface. At the top is the Zenodo logo in a blue bar. Below it is a grey header with 'My account'. On the left is a 'Settings' sidebar with options: Profile, Change password, Security, Notifications, Linked accounts, Applications, and GitHub (highlighted). The main content area is titled 'GitHub Repositories' (updated 9 months ago) and includes a 'Sync now' button. It features a 'Get started' section with three numbered steps: 1. Flip the switch (with an 'ON' toggle and '(example)') and instructions to select a repository and toggle automatic preservation; 2. Create a release (with instructions to go to GitHub and create a release, and that Zenodo will download and register a DOI); 3. Get the badge (with instructions that a DOI badge will appear in the README and an example DOI: 10.5281/zenodo.8475).

# And then add a CITATION.cff

```
cff-version: 1.2.0
message: "If you use this software, please cite it as below."
authors:
- family-names: "Van Seville"
  given-names: "Erik"
  orcid: "https://orcid.org/0000-0003-2041-0704"
- family-names: "Hodgskin"
  given-names: "Nick"
  orcid: "https://orcid.org/0009-0003-0778-3183"
- family-names: "Kehl"
  given-names: "Christian"
  orcid: "https://orcid.org/0000-0003-4200-1450"
- family-names: "Lange"
  given-names: "Michael"
  orcid: "https://orcid.org/0000-0002-3232-0127"
- family-names: "Delandmeter"
  given-names: "Philippe"
  orcid: "https://orcid.org/0000-0003-0100-5834"
- name: "The Parcels contributors"
  website: "https://github.com/Parcels-code/parcels/graphs/contributors"
title: "Parcels"
version: 3.1.2
doi: 10.5281/zenodo.14845686
date-released: 2025-02-10
url: "https://github.com/Parcels-code/parcels"
```