

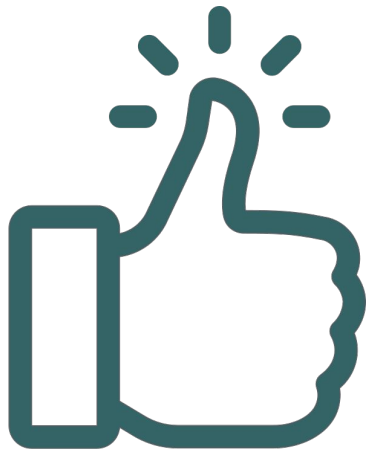
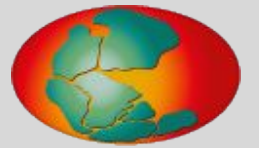
PANGAEA

Community Workshop 2022

Introduction to *pangae*

Astrid Wittmann, Flavia Höring and Dana Ransby

What is *pangaeear*?



Credit: Gregor Cesnar

R package developed and maintained by rOpenSci

Data retrieval interface for PANGAEA

Download and documentation on GitHub and CRAN

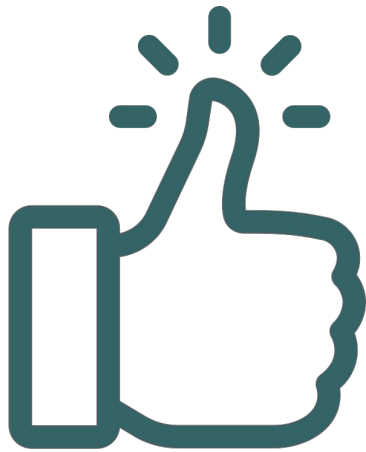
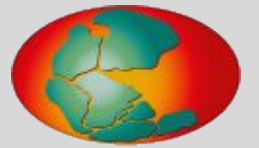
<https://github.com/ropensci/pangaeear>

<https://CRAN.R-project.org/package=pangaeear>

Scott Chamberlain, Kara Woo, Andrew MacDonald, Naupaka Zimmerman and Gavin Simpson (2021). pangaeear: Client for the 'Pangaea' Database. R package version 1.1.0.

<https://CRAN.R-project.org/package=pangaeear>

Why *pangaear*?



Credit: Gregor Cesnar

Direct data queries and retrieval via R

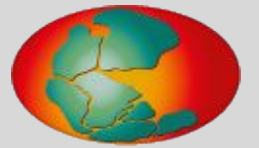
Easy bulk data download

Metadata retrieval (using PANGAEA OAI-PMH service)
and analysis

Enables automated workflows and data mining

Clear record of data retrieval workflow and data
sources

Getting started



At work/homeoffice

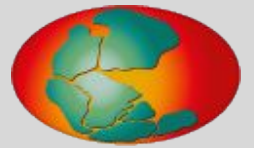
Install *pangaeear* in your environment

```
install.packages('pangaeear')
```

Import packages

```
library(pangaeear)
```

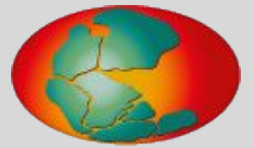




Function	Description
<code>pg_search</code>	Search the Pangaea database (attributes count, offset)
<code>pg_data</code>	Download data from Pangaea
<code>pg_cache</code>	Caching
<code>pg_get_record</code>	Get metadata record from Pangaea

...and others...

Getting started



For our practice today

- Work in cloud environment (MyBinder)
- Linked to PANGAEA's [GitHub account](#)
- JupyterLab, R or RStudio
→ cannot save files but download

