



BFSP Open Call

Odyssey



Connecting molecular and geographical biodiversity data

Hands-on training

May 18th 2026



CERTH
CENTRE FOR
RESEARCH & TECHNOLOGY
HELLAS



UiO : **University of Oslo**



ΔΗΜΟΚΡΙΤΕΙΟ
ΠΑΝΕΠΙΣΤΗΜΙΟ
ΘΡΑΚΗΣ

**DEMOCRITUS
UNIVERSITY
OF THRACE**

The Odyssey app

Data processing

- R shiny
- Maps, tables
- statistics



- Implemented as an **R package**:
 - Ready for submission to public archives (i.e., [CRAN](#), [Bioconductor](#))
 - Easily downloaded and run on a local machine
 - Planning for maintaining the app post-project

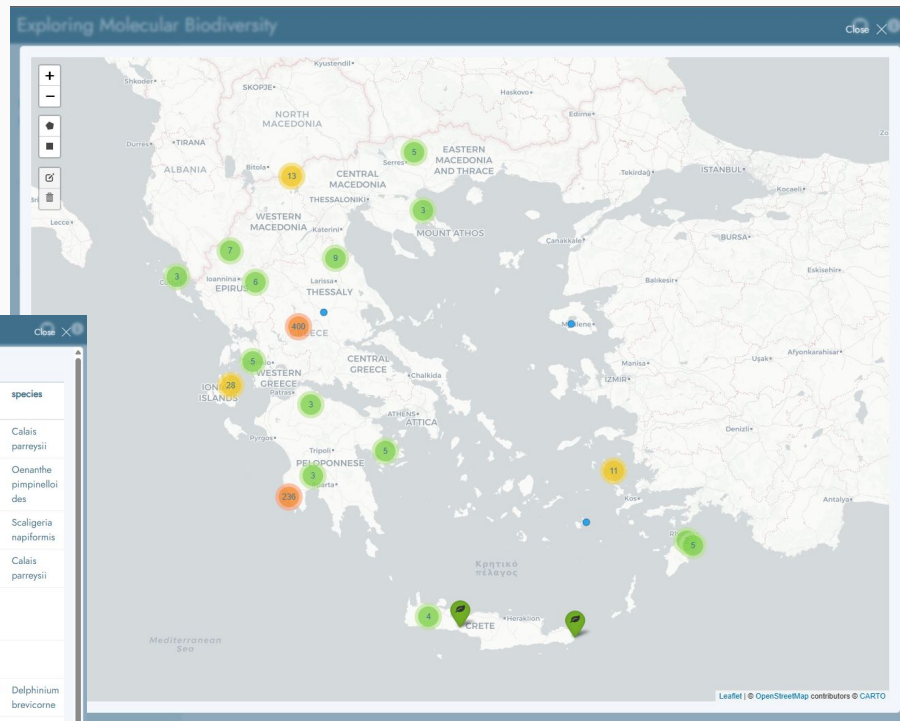
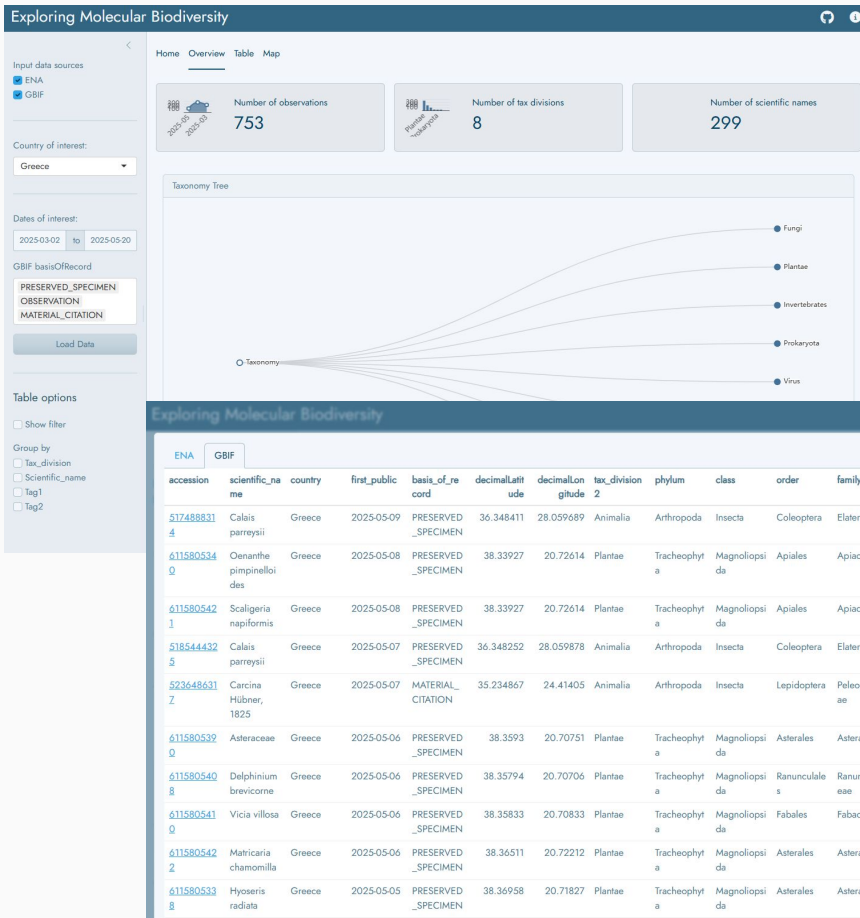
Installation

```
# install.packages("remotes")  
remotes::install_github("BiodataAnalysisGroup/Elixir-BFSP-Odyssey")
```

Usage

```
# library(Odyssey)  
Odyssey::run_odyssey()
```

The Odyssey app



R for macOS

This directory contains binaries for the base distribution and of R and packages to run on macOS. R and package binaries for R versions older are only available from the [CRAN archive](https://cran.r-project.org) so users of such versions should adjust the CRAN mirror setting (<https://cran.r-project.org>) accordingly.

Note: Although we take precautions when assembling binaries, please use the normal precautions with downloaded executables.

R 4.6.0 "Because it was There" released on 2026/04/24

Please check the integrity of the downloaded package by checking the signature:

```
pkgutil --check-signature R-4.6.0-arm64.pkg
```

in the *Terminal* application. If Apple tools are not available you can check the SHA1 checksum of the downloaded image:

```
openssl sha1 R-4.6.0-arm64.pkg
```

Latest release:

For Apple silicon (M1,2,...) Macs:

[R-4.6.0-arm64.pkg](#)

SHA1-

hash: 85775cbe3ba6242d2a2f3693a76422e3303bda9c
(ca. 101MB, notarized and signed)

R 4.6.0 binary for macOS 14 (**Sonoma**) and higher for arm64 Macs, signed and notarized packages.

Contains R 4.6.0 framework, R.app GUI 1.83, Tcl/Tk 8.6.12 X11 libraries and Texinfo 7.3. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

If installing from the *Downloads* folder you must allow the Apple Installer access to that directory. Denying the access will result in you not being able to install any software from there and then you must move the file to a location that is not private such as your home folder.

Note: the use of X11 (including `tcltk`) requires [XQuartz](#) (version 2.8.5 or later). Always re-install XQuartz when upgrading your macOS to a new major version.

This release uses Xcode 26.0 (the same LLVM toolchain up to 26.3) and GNU Fortran 14.2. If you wish to compile R packages which contain Fortran code, you may need to download the corresponding GNU Fortran compiler from <https://mac.R-project.org/tools>. Any external libraries and tools are expected to live in `/opt/R/arm64`.

For older Intel Macs:

[R-4.6.0-x86_64.pkg](#)

SHA1-

hash: e6430cd1b7b27e83597edcd95d0a828228b701a
(ca. 104MB, notarized and signed)

R 4.6.0 binary for macOS 11 (**Big Sur**) and higher, signed and notarized packages.

Contains R 4.6.0 framework, R.app GUI 1.83, Tcl/Tk 8.6.12 X11 libraries and Texinfo 7.3. The latter two components are optional and can be omitted when choosing "custom install", they are only needed if you want to use the `tcltk` R package or build package documentation from sources.

If installing from the *Downloads* folder you must allow the Apple Installer access to that directory. Denying the access will result in you not being able to install any software from there and then you must move the file to a location that is not private such as your home folder.

Quick note for Mac OS X users

- Update to R v4.6.0 recommended
<https://cran.r-project.org/bin/macosx/>
- XQuartz might have to be updated too
xquartz.macosforge.org Administrator access required)



The XQuartz project is an open-source effort to develop a version of the [X.Org X Window System](#) that runs on macOS. Together with supporting libraries and applications, it forms the X11.app that Apple shipped with OS X versions 10.5 through 10.7.

Quick Download

Download	Version	Released	Info
XQuartz-2.8.5.pkg	2.8.5	2023-01-26	For macOS 10.9 or later

License Info

An XQuartz installation consists of many individual pieces of software which have various licenses. The X.Org software components' licenses are discussed on the [X.Org Foundation Licenses page](#). The `quartz-wm` window manager included with the XQuartz distribution uses the [Apple Public Source License Version 2](#).