

Package ‘SEAHORS’

May 7, 2026

Type Package

Title Spatial Exploration of Archaeological Objects in R Shiny

Version 1.9.0

Date 2025-05-27

Author Aurelien Royer [aut] (ORCID: <<https://orcid.org/0000-0002-0139-8765>>),
Sebastien Plutniak [cre] (ORCID:
<<https://orcid.org/0000-0002-6674-3806>>),
Emmanuel Discamps [ctb] (ORCID:
<<https://orcid.org/0000-0002-2464-0761>>),
Marc Thomas [ctb] (ORCID: <<https://orcid.org/0000-0002-8160-1910>>)

Maintainer Sebastien Plutniak <sebastien.plutniak@posteo.net>

Description An R 'Shiny' application dedicated to the intra-site spatial analysis of piece-plotted archaeological remains, making the two and three-dimensional spatial exploration of archaeological data as user-friendly as possible. Documentation about 'SEAHORS' is provided by the vignette included in this package and by the companion scientific paper: Royer, Discamps, Plutniak, Thomas (2023, PCI Archaeology, <[doi:10.5281/zenodo.7674698](https://doi.org/10.5281/zenodo.7674698)>).

License GPL-3

Repository CRAN

Encoding UTF-8

LazyData true

Depends R (>= 3.5.0)

Imports shiny, shinyBS, shinythemes, shinyjs, shinyWidgets, ggplot2,
gridExtra, dplyr, plotly, DT, MASS, readxl, raster, stringr,
viridis, rmarkdown, htmlwidgets

Suggests knitr

VignetteBuilder knitr

URL <https://github.com/AurelienRoyer/SEAHORS>

BugReports <https://github.com/AurelienRoyer/SEAHORS/issues>

RoxygenNote 7.3.2

NeedsCompilation no

Date/Publication 2025-05-29 07:10:02 UTC

Contents

cassenade	2
cassenade.refits	2
SEAHORS	3

Index	5
--------------	----------

cassenade	<i>Dataset: remains found at the Palaeolithic Cassenade site</i>
-----------	--

Description

Cassenade is a Palaeolithic site, this data set include 2466 objects.

Usage

```
data(cassenade)
```

Format

- cassenade is a 2466x12 matrix. Each line describes the objects found in the Cassenade site.

References

- Discamps, E. 2023. Field database of Cassenade excavations (2012-2013), Nakala, DOI: 10.34847/nkl.e30aie2u.
- Discamps, E., F. Bachellerie, M. Baillet, L. Sitzia. 2019. The Use of Spatial Taphonomy for Interpreting Pleistocene Palimpsests: An Interdisciplinary Approach to the Châtelperronian and Carnivore Occupations at Cassenade (Dordogne, France), *PaleoAnthropology*, p. 362-388.

Examples

```
data(cassenade)
```

cassenade.refits	<i>Dataset: refitting relationships between objects found at the Palaeolithic Cassenade site</i>
------------------	--

Description

Cassenade is a Palaeolithic site excavated...

Usage

```
data(cassenade)
```

Format

- `cassenade.refits` is a 81x10 matrix, describing the refitting relationships between objects at the Cassenade site.

References

- Discamps, E. 2023. Field database of Cassenade excavations (2012-2013), Nakala, DOI: 10.34847/nkl.e30aie2u.
- Discamps, E., F. Bachellerie, M. Baillet, L. Sitzia. 2019. The Use of Spatial Taphonomy for Interpreting Pleistocene Palimpsests: An Interdisciplinary Approach to the Châtelperronian and Carnivore Occupations at Cassenade (Dordogne, France), *PaleoAnthropology*, p. 362-388.

Examples

```
data(cassenade)
```

SEAHORS

SEAHORS

Description

This package is a R shiny application dedicated to the intra-site spatial analysis of piece-plotted archaeological remains, making the two and three-dimensional spatial exploration of archaeological data as user-friendly as possible.

Usage

```
SEAHORS()
```

Details

This is a launcher function for the ‘SEAHORS’ application.

Value

Launch the ‘SEAHORS’ Shiny application.

Author(s)

Aurelien Royer <aurelien.royer at u-bourgogne.fr>

References

Royer, A., Discamps, E., Plutniak, S., & Thomas, M. 2023. "SEAHORS: Spatial Exploration of Archaeological Objects in R Shiny". *PCI Archaeology*. DOI: 10.5281/zenodo.7674699.

See Also

shiny plotly ggplot2

Examples

```
if(interactive()){SEAHORS()}
```

Index

* datasets

cassenade, [2](#)

cassenade.refits, [2](#)

cassenade, [2](#)

cassenade.refits, [2](#)

SEAHORS, [3](#)