

Package ‘sisus’

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Type Package

Title SISUS: Stable Isotope Sourcing using Sampling

Version 0.09-011

Date 2008-05-22

Author Erik Barry Erhardt <erik@statacumen.com>

Maintainer Erik Barry Erhardt <erik@statacumen.com>

Description SISUS for source partitioning using stable isotopes.

Depends R (>= 2.7.0), annotate, ash, Biobase, coda, ellipse, gclus, gdata, geneplotter, gplots, gtools, hdrce, moments, mvtnorm, polyapost, rcdd, RColorBrewer, stats, sm

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| sisus-package | <i>sisus reads in a specific Excel-like workbook and performs an IsoSource-type analysis</i> |
|---------------|--|

Details

```

Package:  sisus
Type:    Package
Version:  0.09-011
Date:    2008-05-22
License:  GNU General Public License (GPL)

```

sisus(filename) is the only user function

Author(s)

Erik Barry Erhardt

Maintainer: Erik Barry Erhardt <erik@statacumen.com>

Examples

```

## # set working directory for many output files with setwd()
## # see http://statacumen.com/sisus for workbook
## filename = "http://statacumen.com/old/sisus/examples/SISUS_v0_09_template.xls";
## sisus(filename)

```

`additional.linear.constraints`
additional.linear.constraints

Description

`additional.linear.constraints()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`assign.variables` *assign.variables*

Description

`assign.variables()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`diag.panel.hist` *diag.panel.hist*

Description

`diag.panel.hist()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`dirichlet.moments` *dirichlet.moments*

Description

`dirichlet.moments()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

filename.clean *filename.clean*

Description

filename.clean() is an internal function for sisus()

Author(s)

Erik Barry Erhardt

get.data *get.data*

Description

get.data is an internal function for sisus()

Author(s)

Erik Barry Erhardt

indy.mixture.isotope.mvn.sample
indy.mixture.isotope.mvn.sample

Description

indy.mixture.isotope.mvn.sample() is an internal function for sisus()

Author(s)

Erik Barry Erhardt

isotope.mvn.sampling
isotope.mvn.sampling

Description

isotope.mvn.sampling() is an internal function for sisus()

Author(s)

Erik Barry Erhardt

`mcmc.diagnostics` *mcmc.diagnostics*

Description

`mcmc.diagnostics()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`model.mass.balance.equation`
model.mass.balance.equation

Description

`model.mass.balance.equation()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`model.mass.balance.equation.inverse`
model.mass.balance.equation.inverse

Description

`model.mass.balance.equation.inverse()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`numerical.summaries`
numerical.summaries

Description

`numerical.summaries()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

polytope.constraints

polytope.constraints

Description

polytope.constraints() is an interal function for sisus()

Author(s)

Erik Barry Erhardt

polytope.multiple.samples

polytope.multiple.samples

Description

polytope.multiple.samples() is an interal function for sisus()

Author(s)

Erik Barry Erhardt

prior.on.p

prior.on.p

Description

prior.on.p() is an interal function for sisus()

Author(s)

Erik Barry Erhardt

progress.time

progress.time

Description

progress.time() is an interal function for sisus()

Author(s)

Erik Barry Erhardt

`resample.dirichlet.p`
resample.dirichlet.p

Description

`resample.dirichlet.p()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`s.plot.convex.hull` *s.plot.convex.hull*

Description

`s.plot.convex.hull()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

`s.plot.convex.hull.titles`
s.plot.convex.hull.titles

Description

`s.plot.convex.hull.titles()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

```
s.plot.marginal.histogram  
s.plot.marginal.histogram
```

Description

`s.plot.marginal.histogram()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

```
s.plot.scatterplot.sample  
s.plot.scatterplot.sample
```

Description

`s.plot.scatterplot.sample()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

```
s.plot.settings.begin.end  
s.plot.settings.begin.end
```

Description

`s.plot.settings.begin.end()` is an interal function for `sisus()`

Author(s)

Erik Barry Erhardt

```
sample.from.polytope
      sample.from.polytope
```

Description

sample.from.polytope() is an internal function for sisus()

Author(s)

Erik Barry Erhardt

```
sisus          sisus
```

Description

runs the stable isotope analysis for the specified Excel-like workbook input dataset

Usage

```
sisus(filename)
```

Arguments

filename template workbook available at <http://statacumen.com/sisus/>

Value

no value returned, many output files produced depending on options specified in workbook

Author(s)

Erik Barry Erhardt

References

<http://statacumen.com/sisus/>

Examples

```
## # set working directory for many output files with setwd()
## # see http://statacumen.com/sisus for workbook
## filename = "http://statacumen.com/old/sisus/examples/SISUS_v0_09_template.xls";
## sisus(filename)
```

`write.Ab`*write.Ab*

Description

`write.Ab()` is an internal function for `sisus()`

Author(s)

Erik Barry Erhardt

`write.input`*write.input*

Description

`write.input()` is an internal function for `sisus()`

Author(s)

Erik Barry Erhardt

`write.model.settings`*write.model.settings*

Description

`write.model.settings()` is an internal function for `sisus()`

Author(s)

Erik Barry Erhardt

`write.out`*write.out*

Description

`write.out()` is an internal function for `sisus()`

Author(s)

Erik Barry Erhardt

`write.progress` *write.progress*

Description

`write.progress()` is an internal function for `sisus()`

Author(s)

Erik Barry Erhardt

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