

Package ‘divagis’

February 14, 2012

Type Package

Title Provides tools for quality checks of georeferenced plant species accessions.

Version 1.0.0

Date 2008-09-14

Author Reinhard Simon

Maintainer Reinhard Simon <r.simon@cgiar.org>

Description Provides tools for quality checks of georeferenced plant species accessions.

License GPL (>= 2)

Depends rgdal, sp

LazyLoad yes

Repository CRAN

Date/Publication 2008-09-18 10:58:51

R topics documented:

extract.val	2
latlon2idx	3

Index	4
--------------	----------

`extract.val`*Extract layer values by latlon*

Description

This function is a convenience wrapper function to extract variable values from a database of geographical layers.

Usage

```
extract.val(latlon, layers)
```

Arguments

<code>latlon</code>	<code>latlon</code> is a matrix of two columns for latitude and longitude.
<code>layers</code>	<code>layers</code> is a list of complete layer names. The name is used for display; the value are used for reading the layers.

Details

See description. The function assumes so far that the layers are in a format readable by `readGDAL`; all layers must be standardized to the same reference grid and resolution.

Value

Returns a matrix of several columns containing the original lat/lon, the converted sequential id based on the grid, and the extracted values.

Author(s)

Reinhard Simon

References

none

Examples

```
# to be done
```

latlon2idx	<i>latlon2idx</i>
------------	-------------------

Description

A sequential index number based on lat/lon and a reference grid.

Usage

```
latlon2idx(lat, lon, layer)
```

Arguments

lat	Latitude
lon	Longitude
layer	A reference layer.

Value

Returns a an index number.

Author(s)

Reinhard Simon

References

none

Index

*Topic **manip**

extract.val, 2

latlon2idx, 3

extract.val, 2

latlon2idx, 3