

Package ‘RAFPALdb’

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Title R-AFPALdb package.

Version 0.0.0.9000

Description Package dedicated to the interaction with and extraction of data stored in AFAPLdb.

Depends R (>= 3.2.2)

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LazyData true

RoxygenNote 5.0.1.9000

Imports RMySQL,
rjson

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Connect	<i>Connection to the database</i>
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Description

This function allows you to connect to AFPALdb.

Usage

```
Connect(user = -1, pass = -1, host = -1)
```

Arguments

user	User.
pass	Password.
host	Adresse of the server. Default 'localhost'.

Examples

```
Connect(user="root",pass="root123")
```

Disconnect	<i>Disconnect the user from the database</i>
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Description

This function disconnects the AFPALdb.

Usage

```
Disconnect()
```

Examples

```
Disconnect()
```

`getAgeList`*Get the Age table.*

Description

This function allows you to get all the entries from the AFPALdb.C14 table.

Usage

```
getAgeList(ORDERBY = "LabCode")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'LabCode' by default.
---------	--

Examples

```
Age=getAgeList()  
Age=getAgeList("LabCode")
```

`getAltitude`*Get the Altitude table.*

Description

This function allows you to get all the entries from the AFPALdb.Altitude table.

Usage

```
getAltitude()
```

Examples

```
altitude=getAltitude()
```

`getBio`*Get the bio table.*

Description

This function allows you to get all the entries from the AFPALdb.bio table.

Usage

```
getBio()
```

Examples

```
bio=getBio()
```

getBiome	<i>Get the Biome table.</i>
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Description

This function allows you to get all the entries from the AFPALdb.Biome table.

Usage

```
getBiome()
```

Examples

```
biome=getBiome()
```

getChronoAgeList	<i>Get the ChronoC14 table.</i>
------------------	---------------------------------

Description

This function allows you to get all the entries from the AFPALdb.ChronoC14 table.

Usage

```
getChronoAgeList(ORDERBY = "Chrono_ID,LabCode")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Chrono_ID x LabCode' by default.
---------	--

Examples

```
chronocAge=getChronoAgeList()  
chronocAge=getChronoAgeList("LabCode")
```

getChronoDataList	<i>Get the ChronoData table.</i>
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Description

This function allows you to get all the entries from the AFPALdb.ChronoData table.

Usage

```
getChronoDataList(ORDERBY = "Chrono_ID,Dataset_ID")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Chrono_ID x Dataset_ID' by default.
---------	---

Examples

```
chronodata=getChronoDataList()  
chronodata=getChronoDataList("Dataset_ID")
```

getChronoFromDataID	<i>Extract datasets from the database</i>
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Description

This function allows you to extract the chronology of a dataset identified by its ID.

Usage

```
getChronoFromDataID(Dataset_ID, Uncertainties = FALSE)
```

Arguments

Dataset_ID	ID of the dataset that needs its little chronology.
Uncertainties	Boolean value for the extraction of chronological uncertainties.

Examples

```
chrono1=getChronoFromDataID(49)  
chrono2=getChronoFromDataID(49, TRUE)
```

getChronologyList	<i>Get the Chronology table.</i>
-------------------	----------------------------------

Description

This function allows you to get all the entries from the AFPALdb.Chronology table, except the data.

Usage

```
getChronologyList(ORDERBY = "Chrono_ID")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Chrono_ID' by default.
---------	--

Examples

```
chronology=getChronologyList()
chronology=getChronologyList("Record_Name")
```

getData	<i>Extract chronologies from the database</i>
---------	---

Description

This function allows you to extract JSON objects (chronology containers) from AFPALdb.

This function allows you to extract JSON objects (data containers) from AFPALdb.

Usage

```
getData(Site_Name = "", Record_Name = "", Citation_Key = "", Proxy = "",
        Proxy.Uncer = FALSE, Dataset_ID = -1, Chronology = TRUE,
        Chrono.Uncer = FALSE)
```

```
getData(Site_Name = "", Record_Name = "", Citation_Key = "", Proxy = "",
        Proxy.Uncer = FALSE, Dataset_ID = -1, Chronology = TRUE,
        Chrono.Uncer = FALSE)
```

Arguments

Site_Name	Name of the site.
Record_Name	Name of the specific record requested.
Citation_Key	Reference associated to the dataset requested.
Proxy	Type of proxy of dataset requested.
Dataset_ID	ID of the requested dataset.
Chrono_ID	ID of the requested dataset.
Site_Name	Name of the site.

Record_Name	Name of the specific record requested.
Citation_Key	Reference associated to the dataset requested.
Proxy	Type of proxy of dataset requested.

Examples

```
d0=getData() # Returns NULL
d1=getData(Site_Name="Seweweekspoort")
d2=getData(Proxy="d13C")
d3=getData(Citation_Key="Chase_etal_2013")
d4=getData(Citation_Key="Chase_etal_2013",Record_Name="SWP-1-1")
d0=getData() # Returns NULL
d1=getData(Site_Name="Seweweekspoort")
d2=getData(Proxy="d13C")
d3=getData(Citation_Key="Chase_etal_2013")
d4=getData(Citation_Key="Chase_etal_2013",Record_Name="SWP-1-1",Proxy.Uncer=TRUE,Chrono.Uncer=TRUE)
```

getDatasetList	<i>Get the Dataset table.</i>
----------------	-------------------------------

Description

This function allows you to get all the entries from the AFPALdb.Reference table, except the data.

Usage

```
getDatasetList(ORDERBY = "Dataset_ID")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Dataset_ID' by default.
---------	---

Examples

```
dataset=getDatasetList()
dataset=getDatasetList("Proxy")
dataset=getDatasetList("Record_Name,Citation_Key")
```

getDistrib	<i>Get the distrib table.</i>
------------	-------------------------------

Description

This function allows you to get all the entries from the AFPALdb.distrib table.

Usage

```
getDistrib()
```

Examples

```
distrib=getDistrib()
```

getPET	<i>Get the PET table.</i>
--------	---------------------------

Description

This function allows you to get all the entries from the AFPALdb.PET table.

Usage

```
getPET()
```

Examples

```
pet=getPET()
```

getPrecip	<i>Get the precip table.</i>
-----------	------------------------------

Description

This function allows you to get all the entries from the AFPALdb.precip table.

Usage

```
getPrecip()
```

Examples

```
precip=getPrecip()
```

getReferenceList	<i>Get the Reference table.</i>
------------------	---------------------------------

Description

This function allows you to get all the entries from the AFPALdb.Reference table.

Usage

```
getReferenceList(ORDERBY = "Citation_Key")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Citation_Key' by default.
---------	---

Examples

```
ref=getReferenceList()  
ref=getReferenceList("Citation_Key")
```

getRefSiteList	<i>Get the RefSite table.</i>
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Description

This function allows you to get all the entries from the AFPALdb.RefSite table.

Usage

```
getRefSiteList(ORDERBY = "Citation_Key,Record_Name")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Citation_Key x Record_Name' by default.
---------	---

Examples

```
refsite=getRefSiteList()  
refsite=getRefSiteList("Record_Name")
```

getSiteList	<i>Get the Site table.</i>
-------------	----------------------------

Description

This function allows you to get all the entries from the AFPALdb.Site table.

Usage

```
getSiteList(ORDERBY = "Site_Name")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Site_Name' by default.
---------	--

Examples

```
sites=getSiteList()  
sites=getSiteList(ORDERBY="Site_ID")  
sites=getSiteList("Site_Name")
```

getSiteRegionList	<i>Get the SiteRegion table.</i>
-------------------	----------------------------------

Description

This function allows you to get all the entries from the AFPALdb.SiteRegion table.

Usage

```
getSiteRegionList(ORDERBY = "Region_Name")
```

Arguments

ORDERBY	Set of variables (separated by a comma) to order the results by. Results sorted by 'Region_Name' by default.
---------	--

Examples

```
siteregion=getSiteRegionList()  
siteregion=getSiteRegionList("Region_Name")
```

getTaxalist	<i>Get the Taxalist table.</i>
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Description

This function allows you to get all the entries from the AFPALdb.Taxalist table.

Usage

```
getTaxalist()
```

Examples

```
taxalist=getTaxalist()
```

getTmpr_max	<i>Get the tmpr_max table.</i>
-------------	--------------------------------

Description

This function allows you to get all the entries from the AFPALdb.tmpr_max table.

Usage

```
getTmpr_max()
```

Examples

```
tmpr_max=getTmpr_max()
```

getTmpr_mean	<i>Get the tmpr_mean table.</i>
--------------	---------------------------------

Description

This function allows you to get all the entries from the AFPALdb.tmpr_mean table.

Usage

```
getTmpr_mean()
```

Examples

```
tmpr_mean=getTmpr_mean()
```

getTmpr_min	<i>Get the tmpr_min table.</i>
-------------	--------------------------------

Description

This function allows you to get all the entries from the AFPALdb.tmpr_min table.

Usage

```
getTmpr_min()
```

Examples

```
tmpr_min=getTmpr_min()
```

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