

# Package ‘ideamdb’

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**Type** Package

**Title** Easy Manipulation of IDEAM's Climatological Data

**Version** 0.0.9

**Description** Time series plain text conversion and data visualization. It allows to transform IDEAM (Instituto de Hidrologia, Meteorologia y Estudios Ambientales) daily series from plain text to CSV files or data frames in R. Additionally, it is possible to obtain exploratory graphs from times series. IDEAM's data is freely delivered under formal request through the official web page <<http://www.ideam.gov.co/solicitud-de-informacion>>.

**License** GPL (>= 2)

**Depends** R (>= 2.10)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**Imports** stringr, tidyr, dplyr, ggplot2, utils, graphics

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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Example_IDEAM	<i>A dataset with fictitious values of no real IDEAM's Stations. The text file keeps IDEAM's text format.</i>
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**Description**

A dataset with fictitious values of no real IDEAM's Stations. The text file keeps IDEAM's text format.

**Usage**

```
data(Example_IDEAM)
```

**Format**

text file

**Source**

It is a self-made file. Original data could be freely required through IDEAM's web page. <http://www.ideam.gov.co/solicitud-de-informacion>

**Examples**

```
data(Example_IDEAM)
```

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IdeamLong	<i>Create a day by day IDEAM's data serie</i>
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**Description**

Create a data frame with one value by row. The df is available to export as a CSV file

**Usage**

```
IdeamLong(file, write = FALSE, outfile = "MatrizIdeamLarga")
```

**Arguments**

file	IDEAM file path or file name if it is on the working directory
write	If True a CSV file is returned to the working directory, otherwise only a data frame is shown
outfile	Outfile name that will be saved on the working directory

**Value**

dataframe or a CSV file

**Examples**

```
# Retrieve example dataset
Example_IDEAM <- system.file("extdata", "Example_IDEAM", package = "ideamdb")
# Create a temporal file
example.ideam.long <- tempfile()
write.csv(IdeamLong(Example_IDEAM), file = example.ideam.long)
read.csv(example.ideam.long)
```

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IdeamWide

*Create a matrix with IDEAM's data*

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**Description**

Create a data frame that it is available to export as a CSV file

**Usage**

```
IdeamWide(file, write = FALSE, outfile = "MatrizIdeamAncha")
```

**Arguments**

file	IDEAM file path or file name if it is on the working directory
write	If True a CSV file is returned to the working directory, otherwise only a data frame is shown
outfile	Outfile name that will be saved on the working directory

**Value**

a data frame or a CSV file

**Examples**

```
# Retrieve example dataset
Example_IDEAM <- system.file("extdata", "Example_IDEAM", package = "ideamdb")
# Create a temporal file
example.ideam.wide <- tempfile()
write.csv(IdeamWide(Example_IDEAM), file = example.ideam.wide)
read.csv(example.ideam.wide)
```

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TimeSeries

*Graphical exploratory charts*

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**Description**

Create a time series chart and a boxplot of every data sample

**Usage**

```
TimeSeries(file, station = "all", variable = "all")
```

**Arguments**

file	IDEAM file path or file name if it is on the working directory
station	a single station name or type "all" or "todas" to plot everything
variable	a single variable name or type "all" or "todas" to plot everything only a data frame is shown

**Value**

time series plot and boxplot for every variable data and station

**Examples**

```
Example_IDEAM <- system.file("extdata", "Example_IDEAM", package = "ideamdb")
TimeSeries(Example_IDEAM, station = "LUCERO")
# Print time series chart and boxplots for all variables
# collected in an specific station
```

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## \* **datasets**

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