Package 'vineyard'

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Type Package
Title Budburst, Phenological and Yield Models for Vineyards
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Description Late frosts are a significant risk to grape production in frost-prone viticultural regions. Increasing air temperature because of climate change is likely to advance grape budburst and last frost events in spring. So far, it is unclear whether one trend will be more pronounced than the other, and hence, whether the risk of late frost damage will increase or decrease. The aim of this package is to provide tools for investigating e.g. the future frost risk in winegrowing regions by assessing the effect of simulated future climate conditions on the timing of budburst and last frost date. Late frost risk can be assessed by the implementation of phenological models for budburst of the grapevine.
License What license is it under?
Encoding UTF-8
LazyData true
RoxygenNote 6.1.1
R topics documented:
DD.single.triang

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DD.single.triang Compute the degree-days by the single triangle algorithm

Description

Compute the degree-days by the single triangle algorithm

Usage

```
DD.single.triang(t.zero, t.min, t.mean, t.max)
```

Arguments

t.zero threshold temperature for vine growth.t.min daily minimum air temperature.t.max daily maximum air temperature.x xts object containing the input data.

Value

a vector with the degree-days for vine growth.

FillNA Fil

Fill NA data in time series

Description

Fill NA data in time series

Usage

FillNA(x)

Arguments

x the input time series as xts object.

Value

a time series with the NAs replaced by data according to the na.locf zoo function.

Id.na 3

Id.na

Find indexes for NA data in time series

Description

Find indexes for NA data in time series

Usage

```
Id.na(x)
```

Arguments

Χ

the input time series as xts object.

Value

a vector with the index for NA data in the time series.

plot.na

Plot NA data in time series

Description

Plot NA data in time series

Usage

```
## S3 method for class 'na'
plot(x, ids.na)
```

Arguments

x the input time series as xts object.

ids.na the vector which coniains indexes for NA data as provided by the Id.na function.

Value

plots with the NAs highlighted.

Raw2xts

Raw2xts

Raw data to xts object

Description

Raw data to xts object

Usage

Raw2xts(data)

Arguments

data

the dataframe to convert to xts time series.

Value

the xts object for the input dataframe.

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