**时间序列**

2016-01-16 ***funtimes*** Functions for Time Series Analysis

<https://cran.r-project.org/web/packages/funtimes/index.html>

***dtwclust:*** Time Series Clustering with Dynamic Time Warping Distance

<https://cran.r-project.org/web/packages/dtwclust/index.html>

***DataCombine:*** Tools for Easily Combining and Cleaning Data Sets

<https://cran.r-project.org/web/packages/DataCombine/index.html>

***ftsa:*** Functional Time Series Analysis

<https://cran.r-project.org/web/packages/ftsa/index.html>

***ltsa:*** Linear Time Series Analysis

<https://cran.r-project.org/web/packages/ltsa/index.html>

***openair:*** Tools for the Analysis of Air Pollution Data

<https://cran.r-project.org/web/packages/openair/index.html>

***dse:*** Dynamic Systems Estimation (Time Series Package)

<https://cran.r-project.org/web/packages/dse/index.html>

***tfplot:*** Time Frame User Utilities

<https://cran.r-project.org/web/packages/tfplot/index.html>

***TSdbi:*** Time Series Database Interface

<https://cran.r-project.org/web/packages/TSdbi/index.html>

***TTAinterfaceTrendAnalysis:*** Temporal Trend Analysis Graphical Interface

<https://cran.r-project.org/web/packages/TTAinterfaceTrendAnalysis/index.html>

***AnalyzeTS:*** Analyze Time Series

<https://cran.r-project.org/web/packages/AnalyzeTS/index.html>

**imputeTS:** Time Series Missing Value Imputation

<https://cran.r-project.org/web/packages/imputeTS/index.html>

***Wats:*** Wrap Around Time Series Graphics

<https://cran.r-project.org/web/packages/Wats/index.html>

***tsPI:*** Improved Prediction Intervals for ARIMA Processes and Structural Time Series

<https://cran.r-project.org/web/packages/tsPI/index.html>

***dtwSat:*** Time-Weighted Dynamic Time Warping for Remote Sensing Time Series Analysis

<https://cran.r-project.org/web/packages/dtwSat/index.html>

***tsintermittent:*** Intermittent Time Series Forecasting

<https://cran.r-project.org/web/packages/tsintermittent/index.html>

***freqdom:*** Frequency Domain Analysis for Multivariate Time Series

<https://cran.r-project.org/web/packages/freqdom/index.html>

***dtw:*** Dynamic Time Warping Algorithms

<https://cran.r-project.org/web/packages/dtw/index.html>

***ZRA:*** Dynamic Plots for Time Series Forecasting

<https://cran.r-project.org/web/packages/ZRA/index.html>

***forecTheta:*** Forecasting Time Series by Theta Method

***hts:*** Hierarchical and Grouped Time Series

<https://cran.r-project.org/web/packages/hts/index.html>

***tsfa:*** Time Series Factor Analysis

<https://cran.r-project.org/web/packages/tsfa/index.html>

*tsoutliers:* Detection of Outliers in Time Series

<https://cran.r-project.org/web/packages/tsoutliers/index.html>

***RGENERATEPREC:*** Tools To Generate Daily-Precipitation Time Series

<https://cran.r-project.org/web/packages/RGENERATEPREC/index.html>

***astsa:*** Applied Statistical Time Series Analysis

<https://cran.r-project.org/web/packages/astsa/index.html>

***timsac:*** TIMe Series Analysis and Control package

<https://cran.r-project.org/web/packages/timsac/index.html>

2016-01-16 ***mldr*** Functions for Time Series Analysis

<https://cran.r-project.org/web/packages/funtimes/index.html>

***mldr.datasets*** R Ultimate Multilabel Dataset Repository

**Shiny**

2016-01-15 ***miniUI***: Shiny UI Widgets for Small Screens

<https://cran.r-project.org/web/packages/miniUI/index.html>

***shinystan:*** Interactive Visual and Numerical Diagnostics and Posterior Analysis for Bayesian Models

<https://cran.r-project.org/web/packages/shinystan/index.html>

***shinyjs:*** Perform Common JavaScript Operations in Shiny Apps using Plain R Code

<https://cran.r-project.org/web/packages/shinyjs/index.html>

***plotly:*** Create Interactive Web Graphics via Plotly's JavaScript Graphing Library

<https://cran.r-project.org/web/packages/plotly/index.html>

***curl:*** A Modern and Flexible Web Client for R

<https://cran.r-project.org/web/packages/curl/index.html>

***shinydashboard:*** Create Dashboards with 'Shiny'

<https://cran.r-project.org/web/packages/shinydashboard/index.html>

***CTTShiny:*** Classical Test Theory via Shiny

<https://cran.r-project.org/web/packages/CTTShiny/index.html>

***FastRWeb:*** Fast Interactive Framework for Web Scripting Using R

<https://cran.r-project.org/web/packages/FastRWeb/index.html>

***htmlwidgets:*** HTML Widgets for R

<https://cran.r-project.org/web/packages/htmlwidgets/index.html>

***tis:*** Time Indexes and Time Indexed Series

<https://cran.r-project.org/web/packages/tis/index.html>

***shinyFiles:*** A Server-Side File System Viewer For Shiny

<https://cran.r-project.org/web/packages/shinyFiles/index.html>

***shinythemes:*** Themes for Shiny

<https://cran.r-project.org/web/packages/shinythemes/index.html>

***shinyTree:*** jsTree Bindings for Shiny

<https://cran.r-project.org/web/packages/shinyTree/index.html>

2016-01-15 ***pageviews***: An API Client for Wikimedia Traffic Data

<https://cran.r-project.org/web/packages/pageviews/index.html>

***WikidataR***: API Client Library for 'Wikidata'

<https://cran.r-project.org/web/packages/WikidataR/index.html>

***WikipediR:*** A MediaWiki API Wrapper

<https://cran.r-project.org/web/packages/WikipediR/index.html>

***wikipediatrend:*** Public Subject Attention via Wikipedia Page Access Statistics

<https://cran.r-project.org/web/packages/wikipediatrend/index.html>

***WikipediaR:*** R-Based Wikipedia Client

***mosaic:*** Project MOSAIC Statistics and Mathematics Teaching Utilities

<https://cran.r-project.org/web/packages/mosaic/index.html>

***mosaicData:*** Project MOSAIC (mosaic-web.org) data sets

<https://cran.r-project.org/web/packages/mosaicData/index.html>

***rstatscn:*** R Interface for China National Data（<http://data.stats.gov.cn/> ）

<https://cran.r-project.org/web/packages/rstatscn/index.html>

2016-01-15***PASWR2***: Probability and Statistics with R, Second Edition

<https://cran.r-project.org/web/packages/PASWR2/index.html>

***fda.usc:*** Functional Data Analysis and Utilities for Statistical Computing

<https://cran.r-project.org/web/packages/fda.usc/index.html>

2016-01-14 **GGally:** Extension to ggplot2

<https://cran.r-project.org/web/packages/GGally/index.html>

***rAmCharts:*** JavaScript Charts API Tool

<https://cran.r-project.org/web/packages/rAmCharts/index.html>

***GrapheR:*** A Multi-Platform GUI for Drawing Customizable Graphs in R

<https://cran.r-project.org/web/packages/GrapheR/index.html>

***plfMA:*** A GUI to View, Design and Export Various Graphs of Data

<https://cran.r-project.org/web/packages/plfMA/index.html>

***globe:*** Plot 2D and 3D Views of the Earth, Including Major Coastline

<https://cran.r-project.org/web/packages/globe/index.html>

***geomnet:*** Network Visualization in the 'ggplot2' Framework

<https://cran.r-project.org/web/packages/geomnet/index.html>

***mapdata:*** Extra Map Databases

<https://cran.r-project.org/web/packages/mapdata/index.html>

***maps:*** Draw Geographical Maps

<https://cran.r-project.org/web/packages/maps/index.html>

***mapmisc:*** Utilities for Producing Maps

<https://cran.r-project.org/web/packages/mapmisc/index.html>

***rleafmap:*** Interactive Maps with R and Leaflet

<https://cran.r-project.org/web/packages/rleafmap/index.html>

***leaflet:*** Create Interactive Web Maps with the JavaScript 'Leaflet' Library

<https://cran.r-project.org/web/packages/leaflet/index.html>

***leafletR:*** Interactive Web-Maps Based on the Leaflet JavaScript Library

<https://cran.r-project.org/web/packages/leafletR/index.html>

***RIGHT:*** R Interactive Graphics via HTML

<https://cran.r-project.org/web/packages/RIGHT/index.html>

***mapplots:*** Data Visualisation on Maps

<https://cran.r-project.org/web/packages/mapplots/index.html>

***preproviz:*** Tools for Visualization of Interdependent Data Quality Issues

<https://cran.r-project.org/web/packages/preproviz/preproviz.pdf>

***MissingDataGUI:*** A GUI for Missing Data Exploration

<https://cran.r-project.org/web/packages/MissingDataGUI/index.html>

***Amelia:*** A Program for Missing Data

<https://cran.r-project.org/web/packages/Amelia/index.html>

***VIM:*** Visualization and Imputation of Missing Values

<https://cran.r-project.org/web/packages/VIM/index.html>

**水文数据分析**

***hyfo:*** Hydrology and Climate Forecasting

<https://cran.r-project.org/web/packages/hyfo/index.html>

***dynatopmodel:*** Implementation of the Dynamic TOPMODEL Hydrological Model

<https://cran.r-project.org/web/packages/dynatopmodel/index.html>

***wq:*** Exploring Water Quality Monitoring Data

<https://cran.r-project.org/web/packages/wq/index.html>

***getMet:*** Get Meteorological Data for Hydrological Modeling

<https://cran.r-project.org/web/packages/getMet/index.html>

***hydrostats:*** Hydrologic Indices for Daily Time Series Data

<https://cran.r-project.org/web/packages/hydrostats/index.html>

***weatherr:*** Tools for Handling and Scrapping Instant Weather Forecast Feeds

<https://cran.r-project.org/web/packages/weatherr/index.html>

***FAdist:*** Distributions that are Sometimes Used in Hydrology

<https://cran.r-project.org/web/packages/FAdist/index.html>

***RObsDat:*** Data Management for Hydrology and Beyond Using the Observations Data Model

<https://cran.r-project.org/web/packages/RObsDat/index.html>

***geotopbricks:*** An R Plug-in for the Distributed Hydrological Model GEOtop

<https://cran.r-project.org/web/packages/geotopbricks/index.html>

***rivervis:*** River Visualisation Tool

<https://cran.r-project.org/web/packages/rivervis/index.html>

***hddtools:*** Hydrological Data Discovery Tools

<https://cran.r-project.org/web/packages/hddtools/index.html>

waterData: An R Package for Retrieval, Analysis, and Anomaly Calculation of Daily Hydrologic Time Series Data

<https://cran.r-project.org/web/packages/waterData/index.html>

*extra：*

EcoHydRology：A community modeling foundation for Eco-Hydrology.

hydroGOF: Goodness-of-fit (GoF) functions for numerical and graphical comparison of simulated and observed time series, mainly focused on hydrological modelling.

hydroTSM: Management, analysis, interpolation and plot of hydrological time series, with focus on hydrological modelling

lfstat：Calculates Low Flow Statistics for daily stream flow data

***airGR Suite of GR Hydrological Models for Precipitation-Runoff Modelling***

***wasim-package***

***Visualisation and analysis of output files of the hydrological model WASIM***

***hydroApps-package***

***Tools and models for hydrological applications***

***lfstat-package***

***Calculates Low Flow Statistics for daily stream flow data***

***rJava:*** Low-Level R to Java Interface

<https://cran.r-project.org/web/packages/rJava/index.html>

**文档生成**

***rmarkdown:*** Dynamic Documents for R

<https://cran.r-project.org/web/packages/rmarkdown/index.html>

***R.rsp:*** Dynamic Generation of Scientific Reports

<https://cran.r-project.org/web/packages/R.rsp/index.html>

***papeR:*** A Toolbox for Writing Pretty Papers and Reports

<https://cran.r-project.org/web/packages/papeR/index.html>

***exreport:*** Fast, Reliable and Elegant Reproducible Research

<https://cran.r-project.org/web/packages/exreport/index.html>

***rapport:*** A Report Templating System

<https://cran.r-project.org/web/packages/rapport/index.html>

***xtable:*** Export Tables to LaTeX or HTML

<https://cran.r-project.org/web/packages/xtable/index.html>

***showtext:*** Using Fonts More Easily in R Graphs

<https://cran.r-project.org/web/packages/showtext/index.html>

***RcmdrPlugin.Export:*** Export R Output to LaTeX or HTML

<https://cran.r-project.org/web/packages/RcmdrPlugin.Export/index.html>

***ReporteRs:*** Microsoft Word, Microsoft Powerpoint and HTML Documents Generation

<https://cran.r-project.org/web/packages/ReporteRs/index.html>

***repmis:*** Miscellaneous Tools for Reproducible Research

<https://cran.r-project.org/web/packages/repmis/index.html>

***networkD3:*** D3 JavaScript Network Graphs from R

<https://cran.r-project.org/web/packages/networkD3/index.html>

***scatterD3:*** D3 JavaScript Scatterplot from R

<https://cran.r-project.org/web/packages/scatterD3/index.html>

***qrage:*** Tools that Create D3 JavaScript Force Directed Graph from R

<https://cran.r-project.org/web/packages/qrage/index.html>

***Deducer:*** A Data Analysis GUI for R

<https://cran.r-project.org/web/packages/Deducer/index.html>

***ggfortify:*** Data Visualization Tools for Statistical Analysis Results

https://cran.r-project.org/web/packages/ggfortify/index.html

***vdmR:*** Visual Data Mining Tools for R

<https://cran.r-project.org/web/packages/vdmR/index.html>

***arules:*** Mining Association Rules and Frequent Itemsets

<https://cran.r-project.org/web/packages/arules/index.html>

***arulesViz:*** Visualizing Association Rules and Frequent Itemsets

<https://cran.r-project.org/web/packages/arulesViz/index.html>

***arulesSequences:*** Mining Frequent Sequences

<https://cran.r-project.org/web/packages/arulesSequences/index.html>

***mlr:*** Machine Learning in R

<https://cran.r-project.org/web/packages/mlr/index.html>

***rattle:*** Graphical User Interface for Data Mining in R

<https://cran.r-project.org/web/packages/rattle/index.html>

***stream:*** Infrastructure for Data Stream Mining

<https://cran.r-project.org/web/packages/stream/index.html>

***htmltools:***Tools for HTML generation and output.

<https://cran.r-project.org/web/packages/htmltools/index.html>

***DAAG:*** Data Analysis and Graphics Data and Functions

<https://cran.r-project.org/web/packages/DAAG/index.html>

**时空数据**

***spacetime:*** Classes and Methods for Spatio-Temporal Data

<https://cran.r-project.org/web/packages/spacetime/index.html>

***SpatialTools:*** Tools for Spatial Data Analysis

<https://cran.r-project.org/web/packages/SpatialTools/index.html>

***ggmap:*** Spatial Visualization with ggplot2

<https://cran.r-project.org/web/packages/ggmap/index.html>

***raster:*** Geographic Data Analysis and Modeling

<https://cran.r-project.org/web/packages/raster/index.html>

***SpatialVx:*** Spatial Forecast Verification

<https://cran.r-project.org/web/packages/SpatialVx/index.html>

***mapview:*** Interactive Viewing of Spatial Objects in R

<https://cran.r-project.org/web/packages/mapview/index.html>

***magclass:*** Data Class and Tools for Handling Spatial-Temporal Data

<https://cran.r-project.org/web/packages/magclass/index.html>

***starma:*** Modelling Space Time AutoRegressive Moving Average (STARMA) Processes

<https://cran.r-project.org/web/packages/starma/index.html>

***quickmapr:*** Quickly Map and Explore Spatial Data

<https://cran.r-project.org/web/packages/quickmapr/index.html>

***gstat:*** Spatial and Spatio-Temporal Geostatistical Modelling, Prediction and Simulation

<https://cran.r-project.org/web/packages/gstat/index.html>

***sp:*** Classes and Methods for Spatial Data

<https://cran.r-project.org/web/packages/sp/index.html>

***maptools:*** Tools for Reading and Handling Spatial Objects

<https://cran.r-project.org/web/packages/maptools/index.html>

***splancs:*** Spatial and Space-Time Point Pattern Analysis

<https://cran.r-project.org/web/packages/splancs/index.html>

***meteo:*** Spatio-Temporal Analysis and Mapping of Meteorological Observations

<https://cran.r-project.org/web/packages/meteo/index.html>

**大数据**

***toaster:*** Big Data in-Database Analytics with Teradata Aster

<https://cran.r-project.org/web/packages/toaster/index.html>

***pbdMPI:*** Programming with Big Data – Interface to MPI

<https://cran.r-project.org/web/packages/pbdMPI/index.html>

***pbdZMQ:*** Programming with Big Data – Interface to ZeroMQ

<https://cran.r-project.org/web/packages/pbdZMQ/index.html>

***mongolite:*** Fast and Simple MongoDB Client for R

<https://cran.r-project.org/web/packages/mongolite/index.html>

***kmeans.ddR:*** Distributed k-Means for Big Data using 'ddR' API

<https://cran.r-project.org/web/packages/kmeans.ddR/index.html>

***recommenderlab:*** Lab for Developing and Testing Recommender Algorithms

<https://cran.r-project.org/web/packages/recommenderlab/index.html>

***recosystem:*** Recommender System using Matrix Factorization

<https://cran.r-project.org/web/packages/recosystem/index.html>

***pheatmap:*** Pretty Heatmaps

<https://cran.r-project.org/web/packages/pheatmap/index.html>

***fheatmap:*** Fantastic Heatmap

<https://cran.r-project.org/web/packages/fheatmap/index.html>

***tmap:*** Thematic Maps

<https://cran.r-project.org/web/packages/tmap/index.html>

***d3heatmap:*** Interactive Heat Maps Using 'htmlwidgets' and 'D3.js'

<https://cran.r-project.org/web/packages/d3heatmap/index.html>

***heatmap3:*** An Improved Heatmap Package

<https://cran.r-project.org/web/packages/heatmap3/index.html>

***gmatrix:*** GPU Computing in R

<https://cran.r-project.org/web/packages/gmatrix/index.html>

***gpuR:*** GPU Functions for R Objects

<https://cran.r-project.org/web/packages/gpuR/index.html>

***Rtts:*** Convert Text into Speech

<https://cran.r-project.org/web/packages/Rtts/index.html>

***RMySQL:*** Database Interface and 'MySQL' Driver for R

<https://cran.r-project.org/web/packages/RMySQL/index.html>

***R2SWF:*** Convert R Graphics to Flash Animations

<https://cran.r-project.org/web/packages/R2SWF/index.html>