

Version 1.6 (Released January 18, 2007)

For C functions that read shapefiles from the current directory, replaced calls to `_findfirst` and `_findnext` with code using calls to `readdir`. Also, created a C function named `matchFiles` that determines whether file names in the current directory have a desired file extension. These changes were implemented to facilitate portability of the package.

Modified functions `grts` and `irs` to accommodate use of a factor for the ID variable in the attributes data frame.

Modified functions `grts` and `irs` to ensure that sample weights are correctly adjusted when an oversample is present and the type of random selection is "Continuous".

Version 1.5 (Released December 6, 2006)

Modified C functions `getRecordShapeSizes` and `lintFcn` to accommodate Polyline shapefiles that have multiple parts.

Version 1.4 (Released October 10, 2006)

Modified function `dsgnsum` and `sp2shape` to accommodate the change in representation from `AttributeList` to `data.frame` for the data slot of `sp` package objects belonging to class `SpatialPointsDataFrame`.

Modified functions `grts` and `irs` to print a warning message when the type of frame equals "finite" and a stratum name in the design list matches only a single value in the stratum column of the attributes data frame. For this case, function `grtspts` is not called since the sample will be composed of a single point.

Modified functions `grts`, `grtspts`, `grtslin`, and `grtsarea` to change the maximum value allowed for arguments `startlev` (the initial number of hierarchical levels to use for the GRTS grid) and `maxlev` (the maximum number of hierarchical levels to use for the GRTS grid) from 12 to 11.

Added an example `polylines` dataset to the data directory.

Modified functions `grts` and `irs` to allow use of an `sp` package object as the source of the frame. An argument named `sp.object` was added to the argument list for `grts` and `irs`.

Modified functions `grts`, `grtspts`, `grtslin`, `grtsarea`, `irs`, `irspts`, `irslin`, and `irsarea` to remove use of argument `xy.frame` as an option for source of the frame.

Then modified functions `grts`, `grtspts`, `irs`, and `irspts` to allow incorporation of frame coordinates in the attributes data frame when the type of frame equals "finite". Also, removed argument `elmsize` from functions `grts` and `irs` since the argument no longer was required.

Modified functions `grts` and `irs` to ensure that the ID values for elements of the frame provided in `att.frame` are unique.

Modified functions `grts` and `irs` to ensure that valid values are provided for the `panel` and `caty.n` arguments in the design list.

Version 1.3 (Released August 1, 2006)

Added an example polygons dataset to the data directory.

Incorporated the CHANGES, README, and UserGuide files into the help page.

Version 1.2 (Released June 27, 2006)

Modified function `irsarea` and created a C function named `getRecordIDs` to ensure that an IRS sample is selected when argument `type.frame` is set to "area" in function `irs`.

Created a function named `sp2shape` and a C function named `writeShapeFilePolygon` that convert objects created by the R package "sp" to ESRI shapefiles. Also, renamed the C function `writeShapeFile` to `writeShapeFilePoint`.

Version 1.1 (Released May 31, 2006)

Modified functions `grts` and `irs` to ensure that the levels of `mdcaty` (the variable in the attributes data frame that specifies the unequal probability category for each element in the frame) are equivalent to the names in `caty.n` (the vector of sample sizes for each category in `mdcaty`, which is required for each element of the design list for which the selection type is "Unequal").

Modified functions `grts` and `irs` to ensure that the columns of `xy.frame` are named "x" and "y" when `xy.frame` is provided and `type.frame` equals "finite".

Modified functions `grts` and `irs` so that the sample weights are correctly adjusted when an oversample is requested and when the realized sample size is less than the desired sample size.

Modified the C functions so that the library can accommodate M-type shapefiles.

Version 1.0 (Released May 5, 2006)

This is the original version of the library.