forestDroughtTool package flow

**Internal functions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Input** | **Output** | **Steps** |
| asmrCalc | 1. Daily climate data 2. Soils data (default, or user-defined) | 1. Data frame: daily asmr values |  |
| asmrRun | 1. BGC unit 2. Daily climate data 3. Soils (default, or user-defined) | 1. List of many data frames: daily asmr values for current and (if is.true(FUTURE), future periods | 1. Adjust daily climate data for bgc and each scenario/time period 2. Run asmrCalc for current period 3. Run asmrCalc for future periods |
| asmrYear | 1. Daily climate dataset | 1. Vector of suitable years to summarize ASMR values |  |
| asmrSumm | 1. Daily asmr values 2. List of years to use for summary, either from asmrYear(), or “full”, or custom | 1. List of 3 data frames: summary of monthly asmr values, asmr classes and years used |  |

**External functions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | **Input** | **Output** | **Steps** |
| climClean | 1. Daily climate dataset | 1. Data frame: Cleaned and formatted daily climate data |  |
| asmr | 1. Daily climate dataset, cleaned 2. Soils (Default or user-defined) 3. Future=TRUE/FALSE 4. Years=”random”, “custom”, “full” 5. Bgc | 1. Same as asmrSumm |  |
| asmrComp |  |  |  |