

Return Levels for De Bilt

Martin Roth

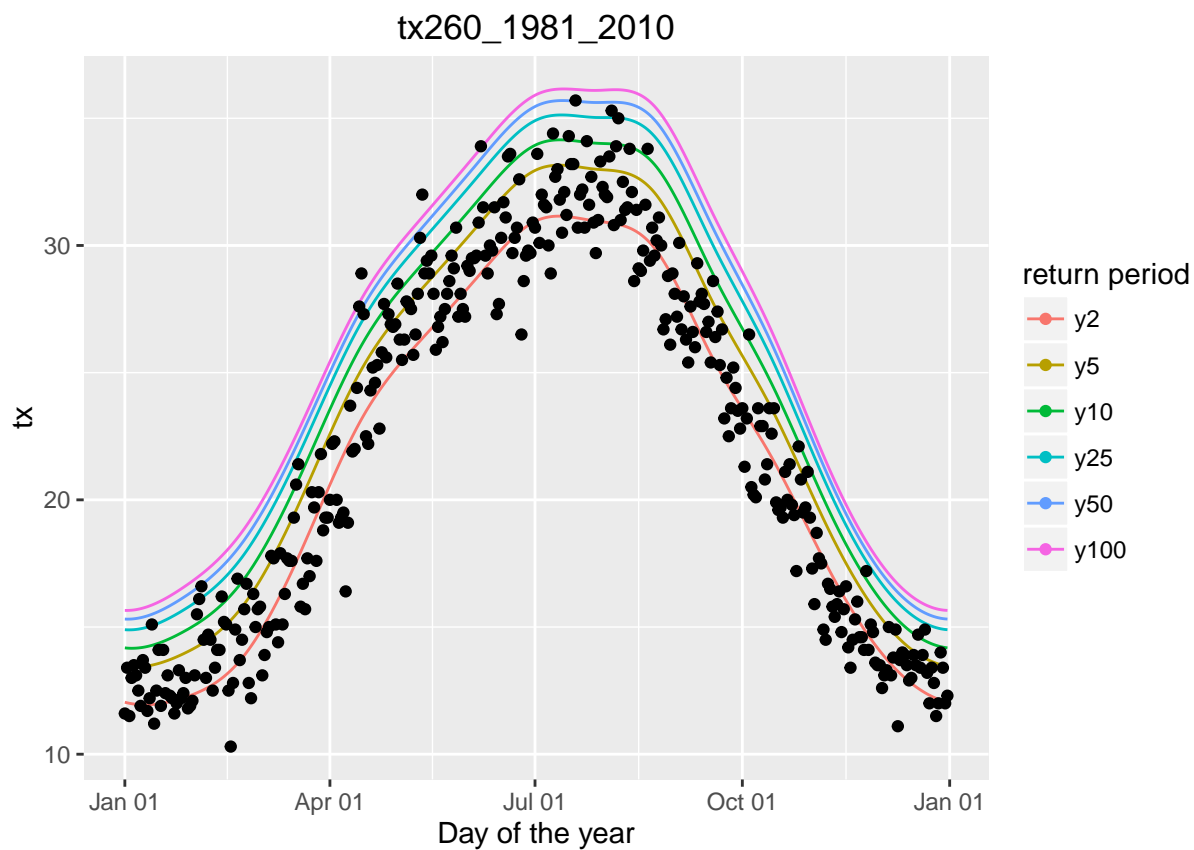
June 30, 2016

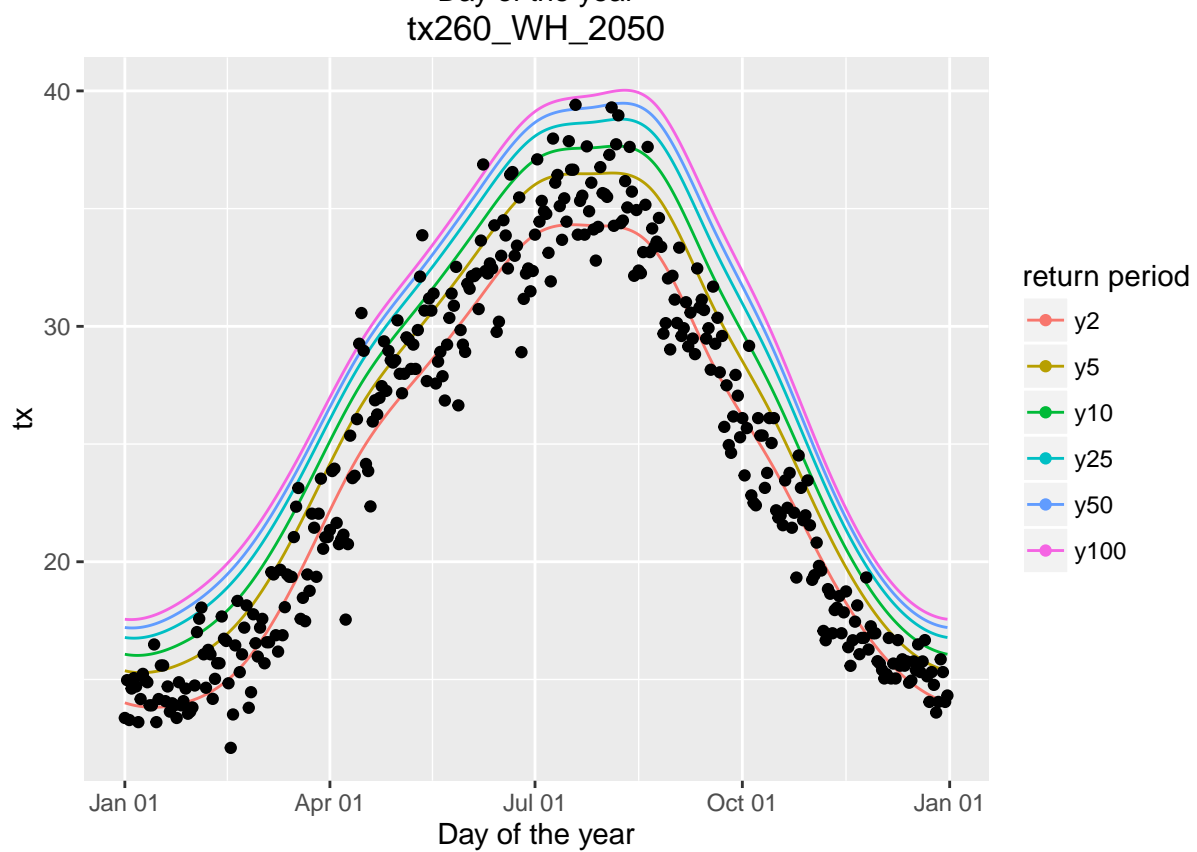
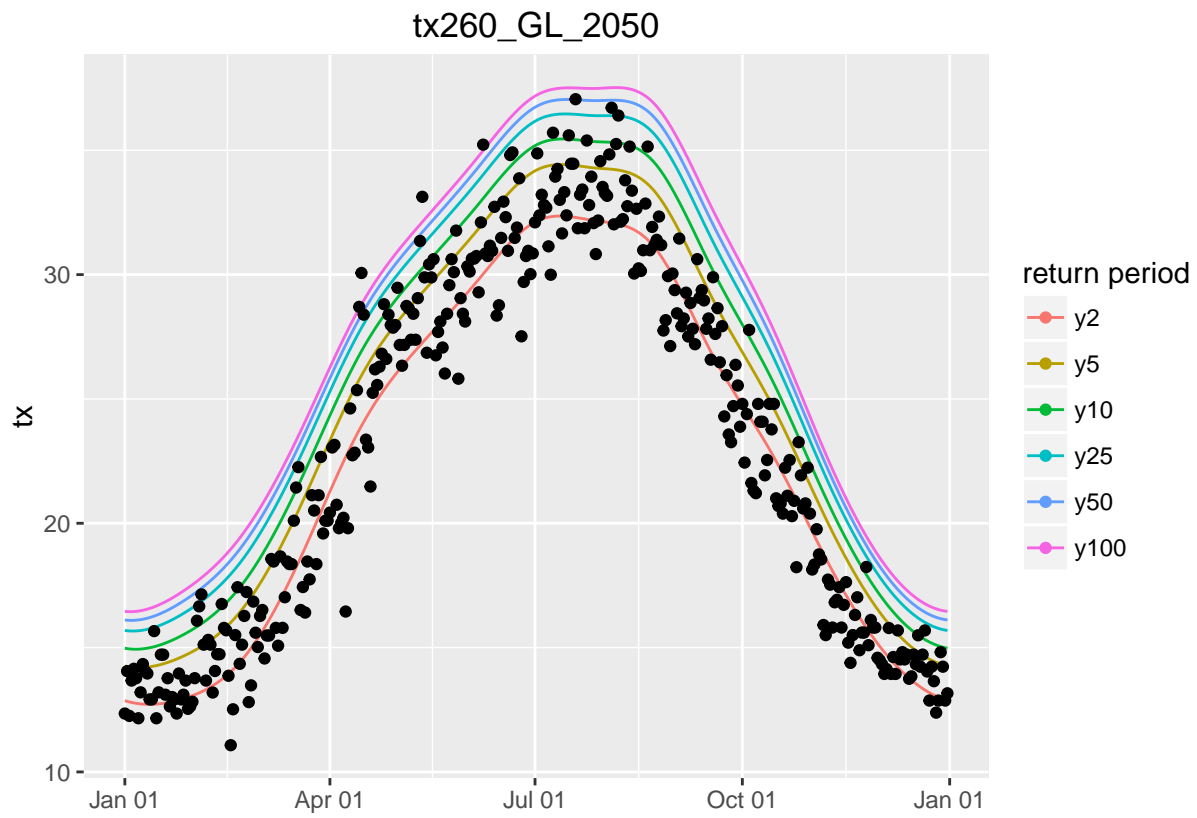
R Markdown

```
scenarios <- txDat[, unique(name)]
windowSize <- 20L

maxResult <- foreach(scenario = iter(scenarios), .combine = "rbind") %do% {
  maxDat <- txDat[name == scenario]
  tmp <- ReturnLevelClimatology(maxDat, "tx", "max",
                                windowSize = windowSize,
                                kLoc = 15, kScale = 8, kShape = 4)

  p <- PlotReturnLevels(tmp)
  print(p + ggtitle(paste(scenario)))
  tmp <- tmp$returnLevels
  tmp[, name := scenario]
}
```



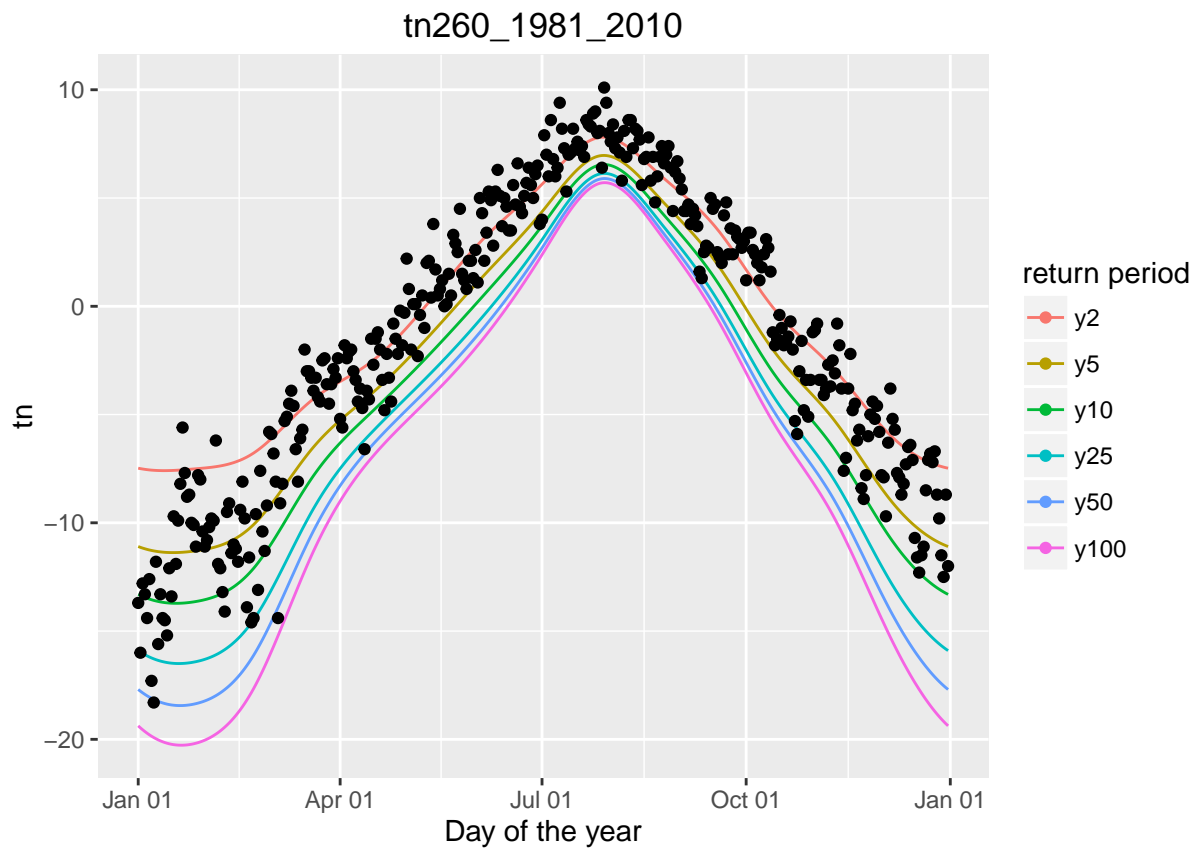


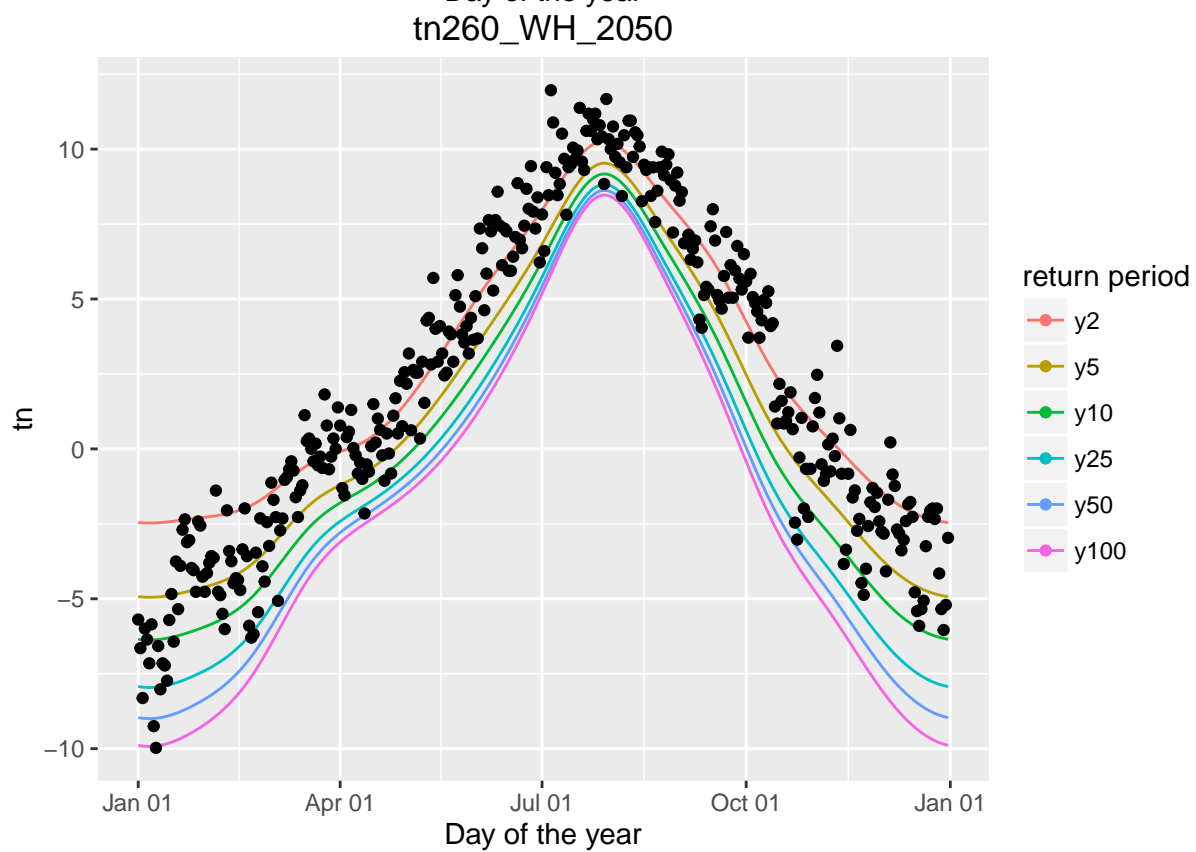
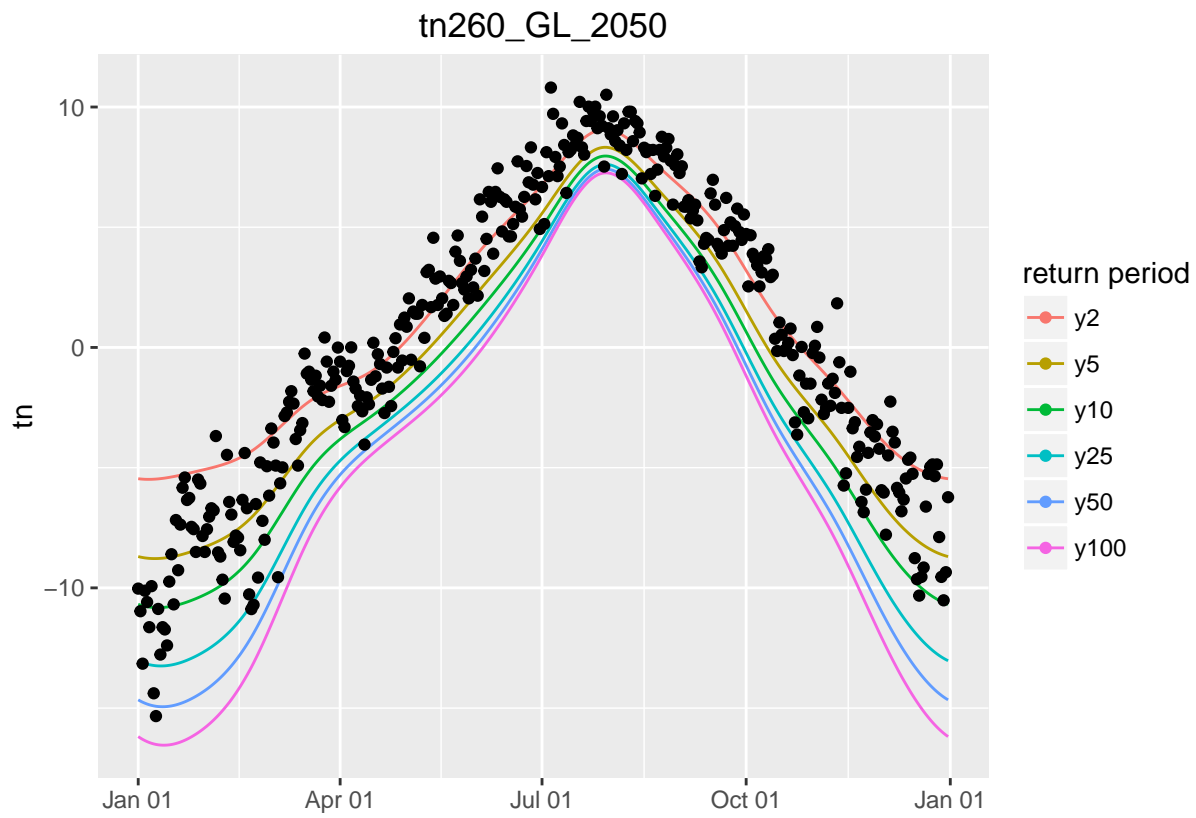
```
setcolorder(maxResult , c("name", "returnPeriod", "displayDate", "value"))
setkey(maxResult, name, returnPeriod, displayDate)
```

```
scenarios <- tnDat[, unique(name)]
windowSize <- 20L
```

```
minResult <- foreach(scenario = iter(scenarios), .combine = "rbind") %do% {
  minDat <- tnDat[name == scenario]
  tmp <- ReturnLevelClimatology(minDat, "tn", "min",
                                windowSize = windowSize,
                                kLoc = 15, kScale = 8, kShape = 4)

  p <- PlotReturnLevels(tmp)
  print(p + ggtitle(paste(scenario)))
  tmp <- tmp$returnLevels
  tmp[, name := scenario]
}
```





```
setcolorder(minResult , c("name", "returnPeriod", "displayDate", "value"))  
setkey(minResult, name, returnPeriod, displayDate)
```

```
write.csv(rbind(maxResult, minResult), file = "returnLevelsDeBilt.csv", row.names=FALSE)
```