**Table S3.** Using the ScientSDI function in the State of São Paulo, Brazil

|  |
| --- |
| setwd("C:/MyWorkingDirectory") #Selecting a working directory  lonlat=read.csv("lonlat.csv", sep=",",header = TRUE) |
| start <- Sys.time() |
| n=length(lonlat[,1]) |
| goodness=list(); normalchecking=list(); parameters=list() |
| start <- Sys.time() |
| for (i in 1:n){ |
| lon=lonlat[i,1];lat=lonlat[i,2] |
| case.study=ScientSDI(lon=lon, lat=lat, start.date="1991-01-01", end.date="2022-12-31", TS=4, Good="yes",RainUplim = 250) |
| goodness[[i]]=case.study$GoodFit |
| normalchecking[[i]]=case.stydy$Normality |
| parameters[[i]]=case.stydy$DistPar} |
| print( Sys.time() - start ) |
| write.csv(goodness,"goodness.csv") |
| write.csv(normalchecking,"normalchecking.csv") |
| write.csv(parameters,"parameters.csv") |