

Homework on Module 6

Verify the lessons learnt through module 6 by creating a similar example on your own.

This time the area we are concerned about is **Charlotte, North Carolina**. Here also, you will consider two nearby locations in/around the Charlotte city area; one of which is a fast-growing suburb, the other one is mostly a forest land and has not been into much development. The gage stations we will be taking here as examples are the USGS 02126000 and USGS 02146600, which are the outlets for watersheds called respectively the Rocky River near Norwood at Stanly County and the McAlpine Creek at Mecklenburg County.

For both the watersheds, download USGS daily streamflow data for two different periods of 1971-1990 and 1991-2010.

Create your own script to plot FDCs as shown in this module. Which one of the locations do you think is undergoing development?

Hints: `ylim=c(10,100000)`, `yat=c(10, 100, 1000,10000,100000)` for Rocky River

`ylim=c(0.01,10000)`, `yat=c(0.01,0.1, 1, 10, 100, 1000,10000)` for McAlpine Creek