#Plotting NOAA.new data with the temperature rise on the x-axis and the rate of billion dollar weather disasters on the y-axis

plot(NOAA[,3],NOAA[,2],xlab="temperature rise", ylab = "rate of billion dollar weather disasters") #calculating means using above functions

dum <-bin.mean(NOAA[,3],NOAA[,2],6)</pre>

dum <-gauss.mean(NOAA[,3],NOAA[,2],.063)</pre>

dum <-gauss.reg(NOAA[,3],NOAA[,2],.078,do.plot=T)</pre>

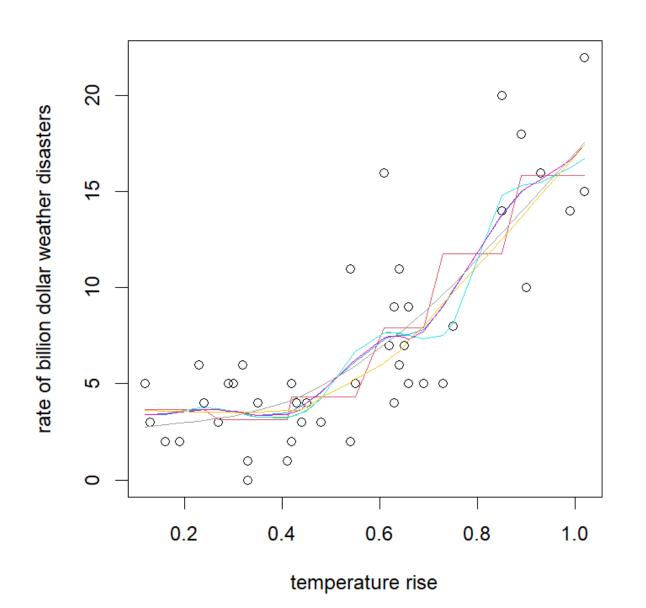
dum <-gauss.mean.trunc(NOAA[,3],NOAA[,2],.063,20,do.plot=T)</pre>

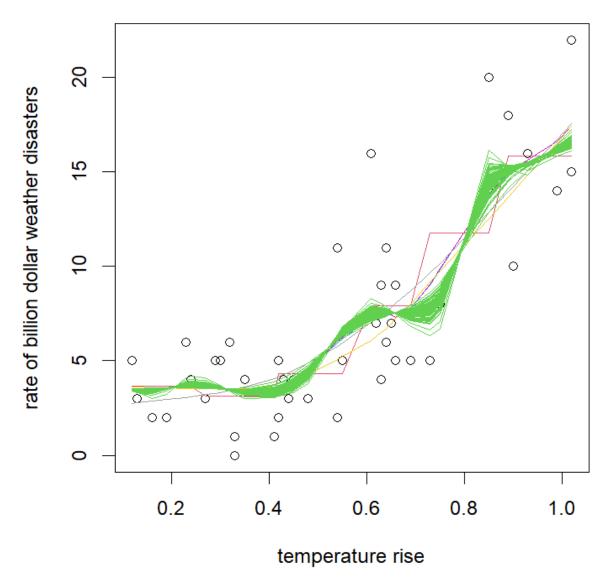
dum <- gauss.reg.trunc(NOAA[,3],NOAA[,2],.08,17,do.plot=T)</pre>

#making smooth lines

lines(lowess(NOAA[,3],NOAA[,2]),col=7)

lines(smooth.spline(NOAA[,3],NOAA[,2]),col=8)



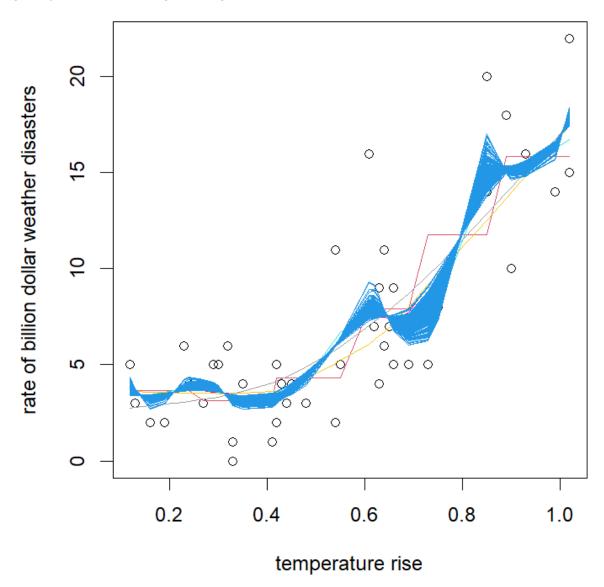


\$theta [1] 0.0695374

\$theta0 [1] 0.063

\$press [1] 442.7174

\$press0
[1] 443.7311

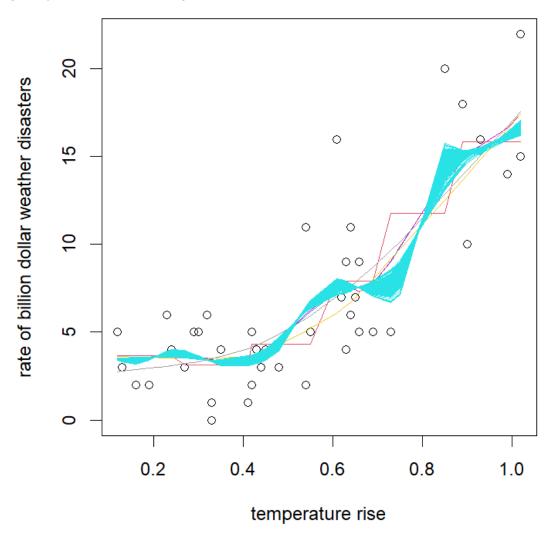


\$theta [1] 0.05646037

\$theta0 [1] 0.078

\$press [1] 484.1306

\$press0 [1] 489.4819



\$theta [1] 0.07033747

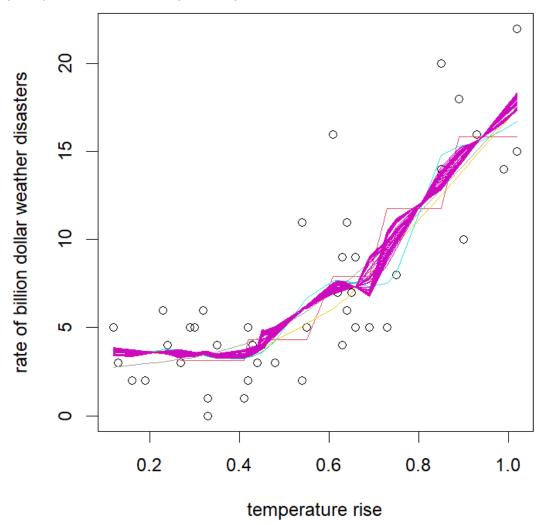
\$theta0 [1] 0.063

\$nnn [1] 20

\$nnn0 [1] 20

\$press
[1] 442.3109

\$press0 [1] 443.5786



\$theta

[1] 0.2379043

\$theta0

[1] 0.08

\$nnn

[1] 16

\$nnn0

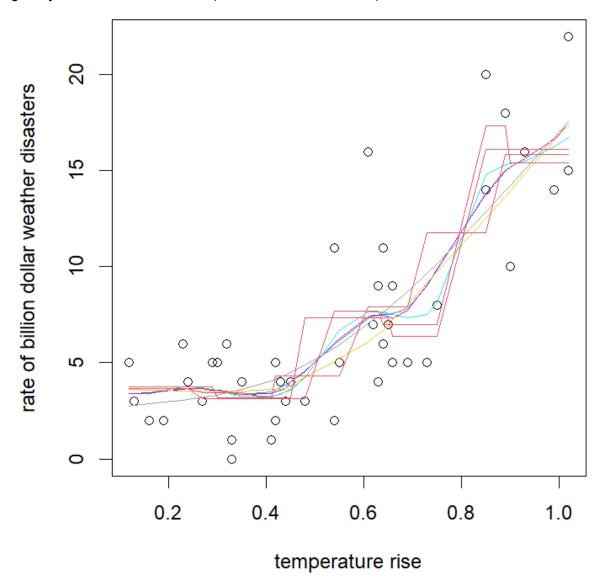
[1] 17

\$press

[1] 464.0416

\$press0

[1] 490.8155



\$theta

[1] 6

\$theta0

[1] 6

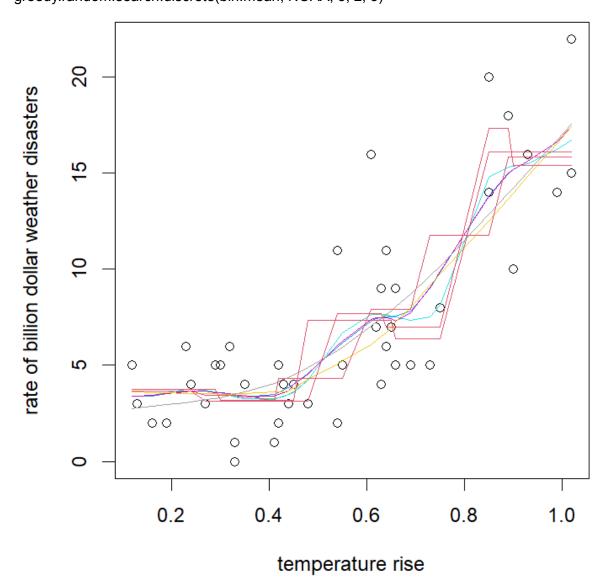
\$press

[1] 418.0708

\$press0

[1] 418.0708

#further testing greedy.random.search.discrete greedy.random.search.discrete(bin.mean, NOAA, 3, 2, 5)



\$theta [1] 6

\$theta0

[1] 5

\$press

[1] 418.0708

\$press0

[1] 570.4185