test

head(daily.df)

## X day total A B AA AB BA BB  
## 1 1 2006-01-01 22 11 11 7 4 7 4  
## 2 2 2006-01-02 23 13 10 9 4 4 6  
## 3 3 2006-01-03 29 13 16 9 4 10 6  
## 4 4 2006-01-04 28 16 12 7 9 4 8  
## 5 5 2006-01-05 20 10 10 6 4 5 5  
## 6 6 2006-01-06 28 10 18 4 6 7 11

head(rho.df)

## X day total A B AA AB BA  
## 1 1 2006-01-01 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## 2 2 2006-01-02 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## 3 3 2006-01-03 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## 4 4 2006-01-04 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## 5 5 2006-01-05 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## 6 6 2006-01-06 21.0615 10.54634 10.51516 5.247683 5.291491 5.298652  
## BB  
## 1 5.223673  
## 2 5.223673  
## 3 5.223673  
## 4 5.223673  
## 5 5.223673  
## 6 5.223673

##########################################################################  
  
#JAGS Simulation  
  
###Assign model values  
Y <- daily.df[3:length(daily.df)]  
Nday <- nrow(Y)  
Nleaf <- ncol(Y)  
rho.total <- rho[1]

## Error in eval(expr, envir, enclos): object 'rho' not found

rho <- as.vector(as.matrix(rho.df[1,3:length(rho.df)]))  
scale <- as.vector(as.matrix(rho/rep(rho[1],length(rho))))  
  
jags.data1 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho=rho) #day = daily.df$day,  
jags.data2 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho=rho)   
jags.data3 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho=rho)   
jags.data4 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho=rho)   
jags.data5 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho=rho)   
jags.data6 <- list(Y=Y,Nday=Nday,Nleaf=Nleaf,rho.total=rho.total,scale=scale)

## Error in eval(expr, envir, enclos): object 'rho.total' not found

### Create Jags models  
source("model1.R")  
source("model2.R")  
source("model3.R")  
source("model4.R")  
source("model5.R")   
source("model6.R")   
  
model1.jags <- jags.model(textConnection(model1.txt), data = jags.data1 ,n.chains=3,n.adapt=1000)

## Compiling model graph  
## Resolving undeclared variables  
## Allocating nodes  
## Graph information:  
## Observed stochastic nodes: 33236  
## Unobserved stochastic nodes: 0  
## Total graph size: 33245  
##   
## Initializing model

model2.jags <- jags.model(textConnection(model2.txt), data = jags.data2 ,n.chains=3,n.adapt=1000)

## Compiling model graph  
## Resolving undeclared variables  
## Allocating nodes  
## Graph information:  
## Observed stochastic nodes: 33236  
## Unobserved stochastic nodes: 1  
## Total graph size: 33254  
##   
## Initializing model

model3.jags <- jags.model(textConnection(model3.txt), data = jags.data3 ,n.chains=3,n.adapt=1000)

## Compiling model graph  
## Resolving undeclared variables  
## Allocating nodes  
## Graph information:  
## Observed stochastic nodes: 33236  
## Unobserved stochastic nodes: 3  
## Total graph size: 33258  
##   
## Initializing model  
## Deleting model

## Error in jags.model(textConnection(model3.txt), data = jags.data3, n.chains = 3, : Error in node Y[1,1]  
## Node inconsistent with parents

model4.jags <- jags.model(textConnection(model4.txt), data = jags.data4 ,n.chains=3,n.adapt=1000)

## Compiling model graph  
## Resolving undeclared variables  
## Allocating nodes  
## Graph information:  
## Observed stochastic nodes: 33236  
## Unobserved stochastic nodes: 2  
## Total graph size: 33255  
##   
## Initializing model

model5.jags <- jags.model(textConnection(model5.txt), data = jags.data5 ,n.chains=3,n.adapt=1000)

## Error in jags.model(textConnection(model5.txt), data = jags.data5, n.chains = 3, :   
## Error parsing model file:  
## syntax error on line 12 near "pi.b"

model6.jags <- jags.model(textConnection(model6.txt), data = jags.data6 ,n.chains=3,n.adapt=1000)

## Error in jags.model(textConnection(model6.txt), data = jags.data6, n.chains = 3, : object 'jags.data6' not found

#burn in  
  
dic.mod1 <- dic.samples(model1.jags, 1000, "pD")

## Warning in dic.samples(model1.jags, 1000, "pD"): NAs introduced by coercion

dic.mod2 <- dic.samples(model2.jags, 1000, "pD")

## Warning in dic.samples(model2.jags, 1000, "pD"): NAs introduced by coercion

dic.mod3 <- dic.samples(model1.jags, 1000, "pD")

## Warning in dic.samples(model1.jags, 1000, "pD"): NAs introduced by coercion

dic.mod4 <- dic.samples(model2.jags, 1000, "pD")

## Warning in dic.samples(model2.jags, 1000, "pD"): NAs introduced by coercion

dic.mod5 <- dic.samples(model1.jags, 1000, "pD")

## Warning in dic.samples(model1.jags, 1000, "pD"): NAs introduced by coercion

dic.mod6 <- dic.samples(model6.jags, 1000, "pD")

## Error in nchain(model): object 'model6.jags' not found

dic.mod1

## Mean deviance: 161453   
## penalty 0   
## Penalized deviance: 161453

dic.mod2

## Mean deviance: 161454   
## penalty 0.6663   
## Penalized deviance: 161455

dic.mod3

## Mean deviance: 161453   
## penalty 0   
## Penalized deviance: 161453

dic.mod4

## Mean deviance: 161455   
## penalty 2.161   
## Penalized deviance: 161457

dic.mod5

## Mean deviance: 161453   
## penalty 0   
## Penalized deviance: 161453

dic.mod6

## Error in eval(expr, envir, enclos): object 'dic.mod6' not found

diffdic(dic.mod1, dic.mod2)

## Difference: -1.461963  
## Sample standard error: 1.179652

diffdic(dic.mod2, dic.mod3)

## Difference: 1.461963  
## Sample standard error: 1.179652

diffdic(dic.mod3, dic.mod4)

## Difference: -3.725249  
## Sample standard error: 0.6998797

diffdic(dic.mod4, dic.mod5)

## Difference: 3.725249  
## Sample standard error: 0.6998797

diffdic(dic.mod5, dic.mod6)

## Error in diffdic(dic.mod5, dic.mod6): object 'dic.mod6' not found

#burn in  
update(model1.jags,1000)   
update(model2.jags,1000)   
update(model3.jags,1000)

## Error in update(model3.jags, 1000): object 'model3.jags' not found

update(model4.jags,1000)   
update(model5.jags,1000)

## Error in update(model5.jags, 1000): object 'model5.jags' not found

update(model6.jags,1000)

## Error in update(model6.jags, 1000): object 'model6.jags' not found

#check which samplers are being used  
list.samplers(model1.jags)

## named list()

list.samplers(model2.jags)

## $`bugs::ConjugateGamma`  
## [1] "lambda"

list.samplers(model3.jags)

## Error in list.samplers(model3.jags): object 'model3.jags' not found

list.samplers(model4.jags)

## $`bugs::ConjugateGamma`  
## [1] "lambda"  
##   
## $`bugs::ConjugateGamma`  
## [1] "lambda.exp"

list.samplers(model5.jags)

## Error in list.samplers(model5.jags): object 'model5.jags' not found

list.samplers(model6.jags)

## Error in list.samplers(model6.jags): object 'model6.jags' not found

params1 = c("mu") #what can I do here to change output to total cata 1 and leaf???  
params2 = c("mu")  
params3 = c("mu")  
params4 = c("mu")  
params5 = c("mu")  
params6 = c("mu")

# run length control (pilot run)  
### Raftery-Lewis diagnostic estimate burnin and sample  
model1.test <- coda.samples(model1.jags, params1, n.iter=5000, thin=1)  
model2.test <- coda.samples(model2.jags, params2, n.iter=5000, thin=1)  
model3.test <- coda.samples(model3.jags, params3, n.iter=5000, thin=1)

## Error in coda.samples(model3.jags, params3, n.iter = 5000, thin = 1): object 'model3.jags' not found

model4.test <- coda.samples(model4.jags, params4, n.iter=5000, thin=1)  
model5.test <- coda.samples(model5.jags, params5, n.iter=5000, thin=1)

## Error in coda.samples(model5.jags, params5, n.iter = 5000, thin = 1): object 'model5.jags' not found

model6.test <- coda.samples(model6.jags, params6, n.iter=5000, thin=1)

## Error in coda.samples(model6.jags, params6, n.iter = 5000, thin = 1): object 'model6.jags' not found

summary(model1.test)

##   
## Iterations = 4001:9000  
## Thinning interval = 1   
## Number of chains = 3   
## Sample size per chain = 5000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.061 0 0 0  
## mu[2] 10.546 0 0 0  
## mu[3] 10.515 0 0 0  
## mu[4] 5.248 0 0 0  
## mu[5] 5.291 0 0 0  
## mu[6] 5.299 0 0 0  
## mu[7] 5.224 0 0 0  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 21.061 21.061 21.061 21.061 21.061  
## mu[2] 10.546 10.546 10.546 10.546 10.546  
## mu[3] 10.515 10.515 10.515 10.515 10.515  
## mu[4] 5.248 5.248 5.248 5.248 5.248  
## mu[5] 5.291 5.291 5.291 5.291 5.291  
## mu[6] 5.299 5.299 5.299 5.299 5.299  
## mu[7] 5.224 5.224 5.224 5.224 5.224

summary(model2.test)

##   
## Iterations = 3001:8000  
## Thinning interval = 1   
## Number of chains = 3   
## Sample size per chain = 5000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.062 0.038174 3.117e-04 3.104e-04  
## mu[2] 10.546 0.019115 1.561e-04 1.554e-04  
## mu[3] 10.515 0.019059 1.556e-04 1.550e-04  
## mu[4] 5.248 0.009511 7.766e-05 7.734e-05  
## mu[5] 5.292 0.009591 7.831e-05 7.799e-05  
## mu[6] 5.299 0.009604 7.841e-05 7.809e-05  
## mu[7] 5.224 0.009468 7.730e-05 7.699e-05  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 20.987 21.036 21.061 21.087 21.137  
## mu[2] 10.509 10.533 10.546 10.559 10.584  
## mu[3] 10.478 10.502 10.515 10.528 10.553  
## mu[4] 5.229 5.241 5.248 5.254 5.266  
## mu[5] 5.273 5.285 5.291 5.298 5.310  
## mu[6] 5.280 5.292 5.299 5.305 5.318  
## mu[7] 5.205 5.217 5.224 5.230 5.242

summary(model3.test)

## Error in object[[i]]: object of type 'closure' is not subsettable

summary(model4.test)

##   
## Iterations = 1001:6000  
## Thinning interval = 1   
## Number of chains = 3   
## Sample size per chain = 5000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.062 0.038509 3.144e-04 3.022e-04  
## mu[2] 10.546 0.019283 1.574e-04 1.513e-04  
## mu[3] 10.515 0.019226 1.570e-04 1.509e-04  
## mu[4] 5.248 0.009595 7.834e-05 7.529e-05  
## mu[5] 5.292 0.009675 7.900e-05 7.592e-05  
## mu[6] 5.299 0.009688 7.910e-05 7.602e-05  
## mu[7] 5.224 0.009551 7.798e-05 7.495e-05  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 20.985 21.036 21.062 21.088 21.137  
## mu[2] 10.508 10.534 10.546 10.559 10.584  
## mu[3] 10.477 10.502 10.515 10.528 10.553  
## mu[4] 5.229 5.241 5.248 5.254 5.267  
## mu[5] 5.272 5.285 5.292 5.298 5.311  
## mu[6] 5.279 5.292 5.299 5.305 5.318  
## mu[7] 5.205 5.217 5.224 5.230 5.242

summary(model5.test)

## Error in object[[i]]: object of type 'closure' is not subsettable

summary(model6.test)

## Error in summary(model6.test): object 'model6.test' not found

raftery.diag(model1.test)

## [[1]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95

## Error in if (x$resmatrix[1] == "Error") cat("\nYou need a sample size of at least", : missing value where TRUE/FALSE needed

raftery.diag(model2.test)

## [[1]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3680 3746 0.982   
## mu[2] 2 3680 3746 0.982   
## mu[3] 2 3680 3746 0.982   
## mu[4] 2 3680 3746 0.982   
## mu[5] 2 3680 3746 0.982   
## mu[6] 2 3680 3746 0.982   
## mu[7] 2 3680 3746 0.982   
##   
##   
## [[2]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3561 3746 0.951   
## mu[2] 2 3561 3746 0.951   
## mu[3] 2 3561 3746 0.951   
## mu[4] 2 3561 3746 0.951   
## mu[5] 2 3561 3746 0.951   
## mu[6] 2 3561 3746 0.951   
## mu[7] 2 3561 3746 0.951   
##   
##   
## [[3]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3680 3746 0.982   
## mu[2] 2 3680 3746 0.982   
## mu[3] 2 3680 3746 0.982   
## mu[4] 2 3680 3746 0.982   
## mu[5] 2 3680 3746 0.982   
## mu[6] 2 3680 3746 0.982   
## mu[7] 2 3680 3746 0.982

raftery.diag(model3.test)

##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## You need a sample size of at least 3746 with these values of q, r and s

raftery.diag(model4.test)

## [[1]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3680 3746 0.982   
## mu[2] 2 3680 3746 0.982   
## mu[3] 2 3680 3746 0.982   
## mu[4] 2 3680 3746 0.982   
## mu[5] 2 3680 3746 0.982   
## mu[6] 2 3680 3746 0.982   
## mu[7] 2 3680 3746 0.982   
##   
##   
## [[2]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3803 3746 1.02   
## mu[2] 2 3803 3746 1.02   
## mu[3] 2 3803 3746 1.02   
## mu[4] 2 3803 3746 1.02   
## mu[5] 2 3803 3746 1.02   
## mu[6] 2 3803 3746 1.02   
## mu[7] 2 3803 3746 1.02   
##   
##   
## [[3]]  
##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## Burn-in Total Lower bound Dependence  
## (M) (N) (Nmin) factor (I)  
## mu[1] 2 3995 3746 1.07   
## mu[2] 2 3995 3746 1.07   
## mu[3] 2 3995 3746 1.07   
## mu[4] 2 3995 3746 1.07   
## mu[5] 2 3995 3746 1.07   
## mu[6] 2 3995 3746 1.07   
## mu[7] 2 3995 3746 1.07

raftery.diag(model5.test)

##   
## Quantile (q) = 0.025  
## Accuracy (r) = +/- 0.005  
## Probability (s) = 0.95   
##   
## You need a sample size of at least 3746 with these values of q, r and s

raftery.diag(model6.test)

## Error in is.mcmc.list(data): object 'model6.test' not found

# run coda.samples with DIC module  
model1.sim <- coda.samples(model1.jags, params1, n.iter=4000, thin=4)  
model2.sim <- coda.samples(model2.jags, params2, n.iter=4000, thin=4)  
model3.sim <- coda.samples(model3.jags, params3, n.iter=4000, thin=4)

## Error in coda.samples(model3.jags, params3, n.iter = 4000, thin = 4): object 'model3.jags' not found

model4.sim <- coda.samples(model4.jags, params4, n.iter=4000, thin=4)  
model5.sim <- coda.samples(model5.jags, params5, n.iter=4000, thin=4)

## Error in coda.samples(model5.jags, params5, n.iter = 4000, thin = 4): object 'model5.jags' not found

model6.sim <- coda.samples(model6.jags, params6, n.iter=4000, thin=4)

## Error in coda.samples(model6.jags, params6, n.iter = 4000, thin = 4): object 'model6.jags' not found

# summarising the posterior distributions for parameters  
summary(model1.sim)

##   
## Iterations = 9004:13000  
## Thinning interval = 4   
## Number of chains = 3   
## Sample size per chain = 1000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.061 0 0 0  
## mu[2] 10.546 0 0 0  
## mu[3] 10.515 0 0 0  
## mu[4] 5.248 0 0 0  
## mu[5] 5.291 0 0 0  
## mu[6] 5.299 0 0 0  
## mu[7] 5.224 0 0 0  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 21.061 21.061 21.061 21.061 21.061  
## mu[2] 10.546 10.546 10.546 10.546 10.546  
## mu[3] 10.515 10.515 10.515 10.515 10.515  
## mu[4] 5.248 5.248 5.248 5.248 5.248  
## mu[5] 5.291 5.291 5.291 5.291 5.291  
## mu[6] 5.299 5.299 5.299 5.299 5.299  
## mu[7] 5.224 5.224 5.224 5.224 5.224

summary(model2.sim)

##   
## Iterations = 8004:12000  
## Thinning interval = 4   
## Number of chains = 3   
## Sample size per chain = 1000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.061 0.038917 0.0007105 0.0007229  
## mu[2] 10.546 0.019488 0.0003558 0.0003620  
## mu[3] 10.515 0.019430 0.0003547 0.0003609  
## mu[4] 5.248 0.009697 0.0001770 0.0001801  
## mu[5] 5.291 0.009778 0.0001785 0.0001816  
## mu[6] 5.299 0.009791 0.0001788 0.0001819  
## mu[7] 5.224 0.009652 0.0001762 0.0001793  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 20.984 21.035 21.061 21.088 21.136  
## mu[2] 10.507 10.533 10.546 10.560 10.584  
## mu[3] 10.476 10.502 10.515 10.529 10.553  
## mu[4] 5.228 5.241 5.248 5.254 5.266  
## mu[5] 5.272 5.285 5.291 5.298 5.310  
## mu[6] 5.279 5.292 5.299 5.305 5.317  
## mu[7] 5.204 5.217 5.224 5.230 5.242

summary(model3.sim)

## Error in summary(model3.sim): object 'model3.sim' not found

summary(model4.sim)

##   
## Iterations = 6004:10000  
## Thinning interval = 4   
## Number of chains = 3   
## Sample size per chain = 1000   
##   
## 1. Empirical mean and standard deviation for each variable,  
## plus standard error of the mean:  
##   
## Mean SD Naive SE Time-series SE  
## mu[1] 21.061 0.038198 0.0006974 0.0007087  
## mu[2] 10.546 0.019127 0.0003492 0.0003549  
## mu[3] 10.515 0.019070 0.0003482 0.0003538  
## mu[4] 5.248 0.009517 0.0001738 0.0001766  
## mu[5] 5.291 0.009597 0.0001752 0.0001781  
## mu[6] 5.299 0.009610 0.0001754 0.0001783  
## mu[7] 5.224 0.009474 0.0001730 0.0001758  
##   
## 2. Quantiles for each variable:  
##   
## 2.5% 25% 50% 75% 97.5%  
## mu[1] 20.987 21.036 21.061 21.088 21.137  
## mu[2] 10.509 10.533 10.546 10.560 10.584  
## mu[3] 10.478 10.502 10.515 10.528 10.553  
## mu[4] 5.229 5.241 5.248 5.254 5.266  
## mu[5] 5.273 5.285 5.291 5.298 5.310  
## mu[6] 5.280 5.292 5.299 5.305 5.318  
## mu[7] 5.205 5.217 5.224 5.230 5.242

summary(model5.sim)

## Error in summary(model5.sim): object 'model5.sim' not found

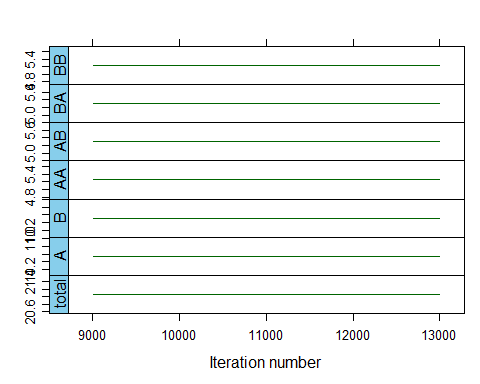
summary(model6.sim)

## Error in summary(model6.sim): object 'model6.sim' not found

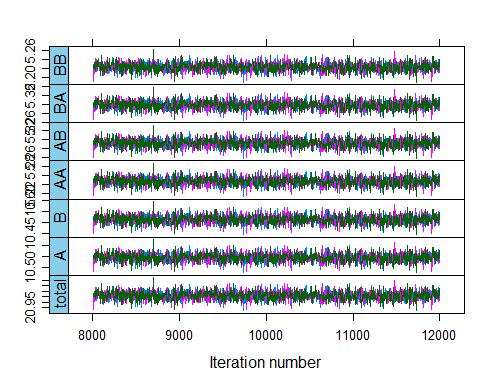
MyText<-names(daily.df)[3:ncol(daily.df)]  
MyText

## [1] "total" "A" "B" "AA" "AB" "BA" "BB"

xyplot(model1.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))



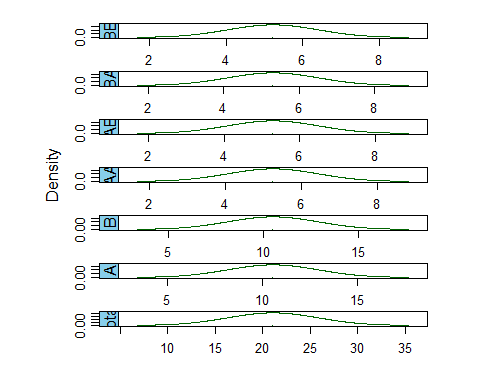
xyplot(model2.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))



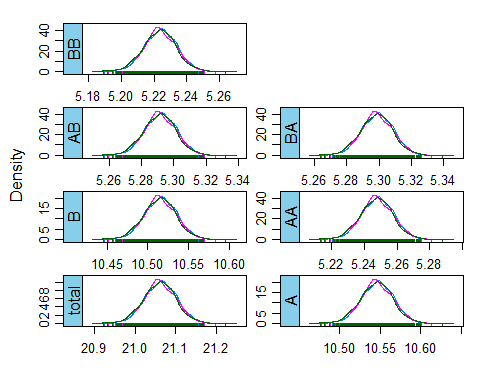
xyplot(model3.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))

## Error in xyplot(model3.sim, strip = F, strip.left = strip.custom(factor.levels = MyText, : object 'model3.sim' not found

densityplot(model1.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))



densityplot(model2.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))



densityplot(model3.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))

## Error in densityplot(model3.sim, strip = F, strip.left = strip.custom(factor.levels = MyText, : object 'model3.sim' not found

acfplot(model1.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))

## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
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## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf  
  
## Warning in max(abs(x[-1]), na.rm = TRUE): no non-missing arguments to max;  
## returning -Inf

## Warning in min(x): no non-missing arguments to min; returning Inf

## Warning in max(x): no non-missing arguments to max; returning -Inf

## Warning in min(x): no non-missing arguments to min; returning Inf

## Warning in max(x): no non-missing arguments to max; returning -Inf

## Error in grid.Call.graphics(C\_setviewport, vp, TRUE): non-finite location and/or size for viewport



acfplot(model2.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))  
acfplot(model3.sim, strip=F, strip.left=strip.custom(factor.levels=MyText,bg="skyblue"))

## Error in acfplot(model3.sim, strip = F, strip.left = strip.custom(factor.levels = MyText, : object 'model3.sim' not found