

Parameters not used

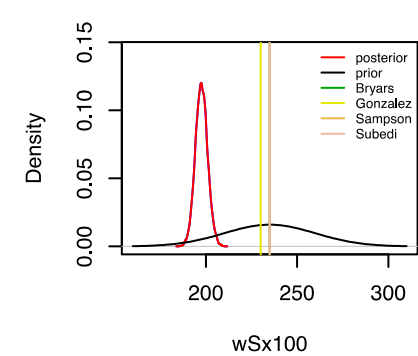
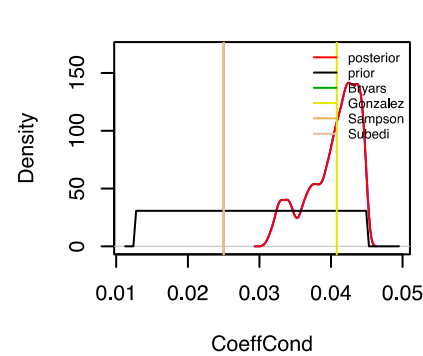
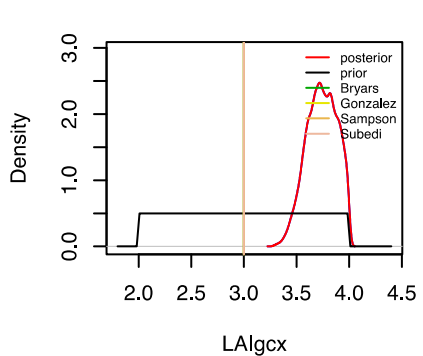
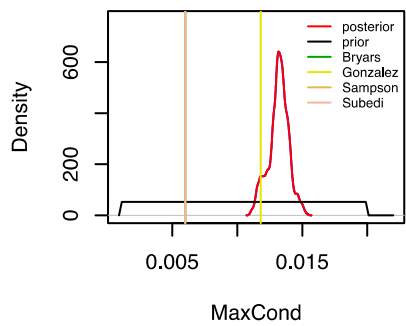
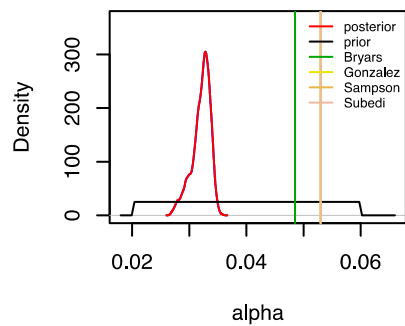
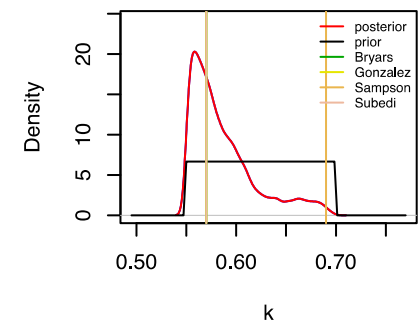
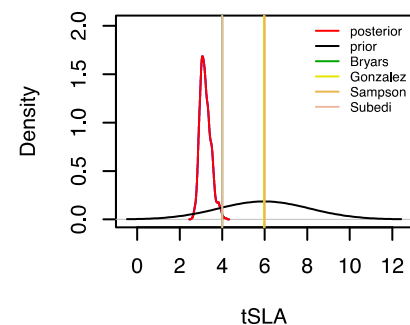
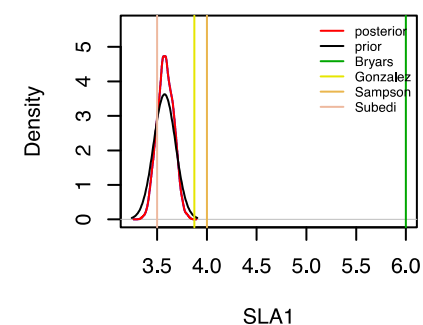
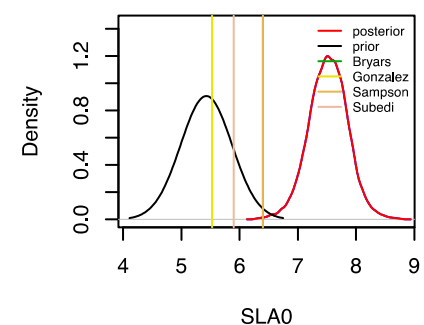
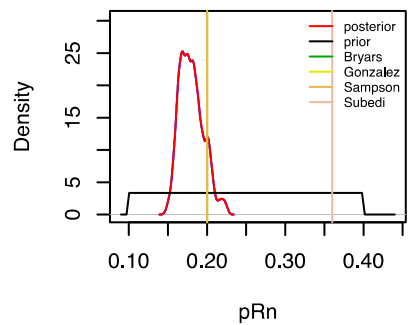
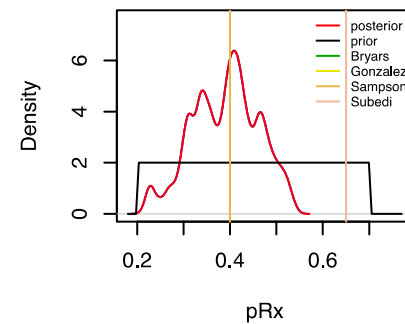
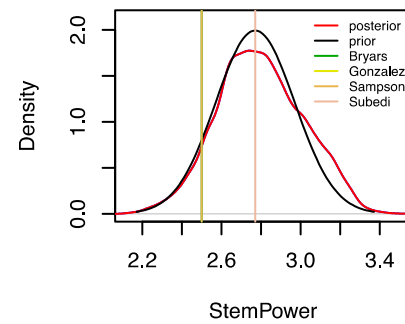
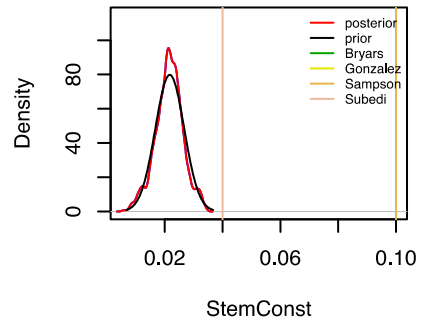
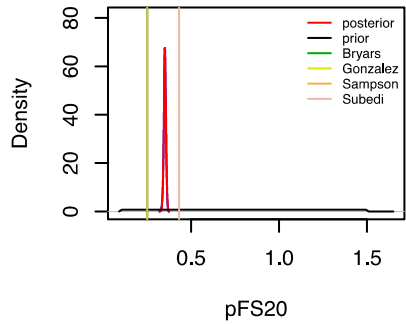
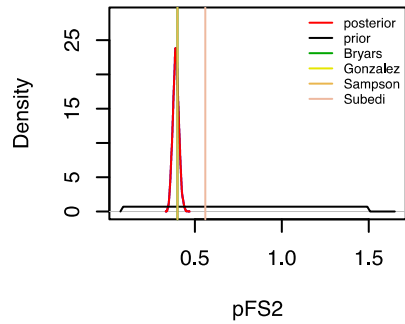
gammaFx (replaced with a two cohort model)
gammaFO (replaced with a two cohort model)
tgammaF (replaced with a two cohort model)
Density
volRatio
fracBB0
fracBB1

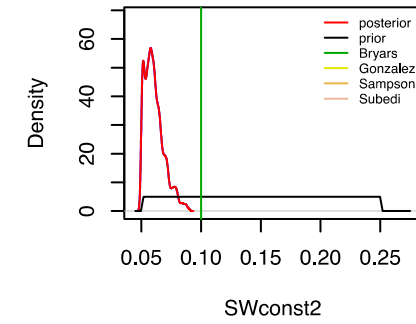
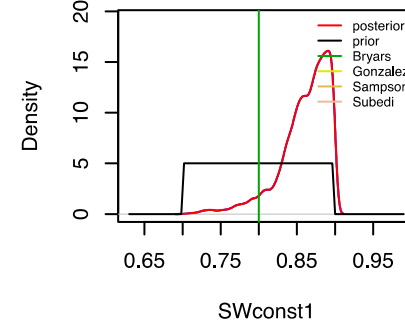
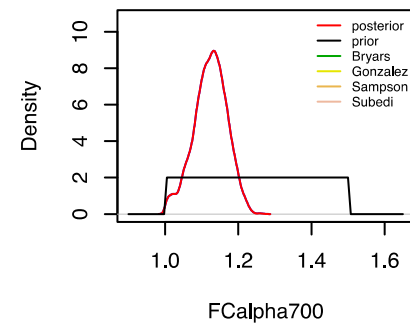
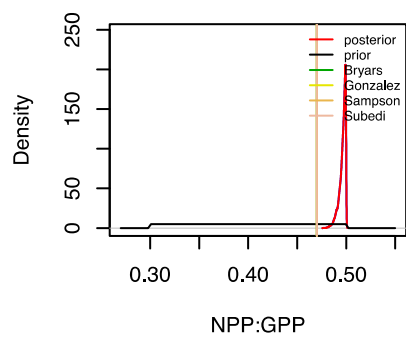
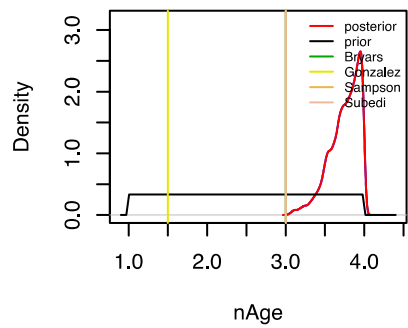
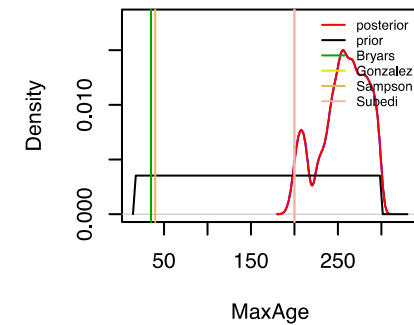
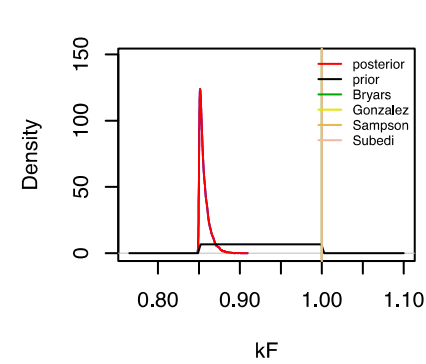
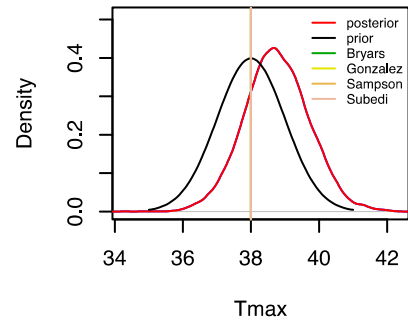
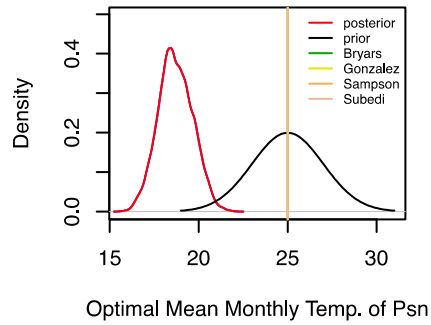
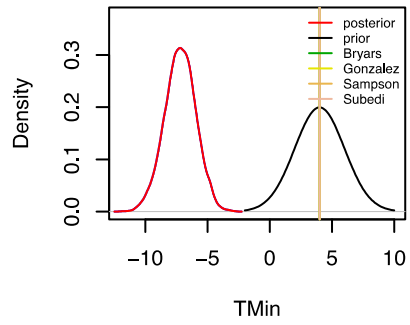
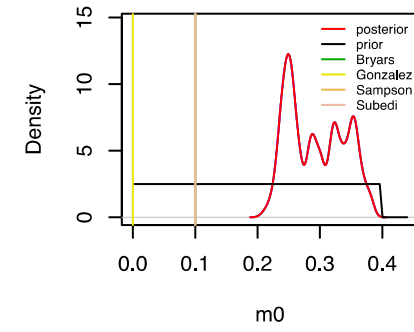
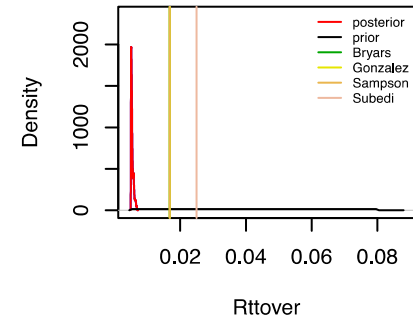
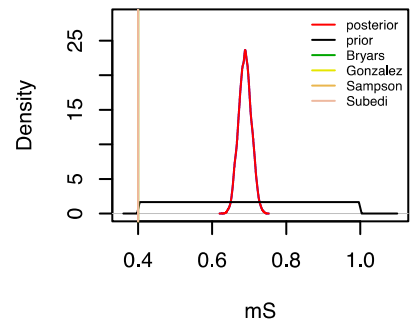
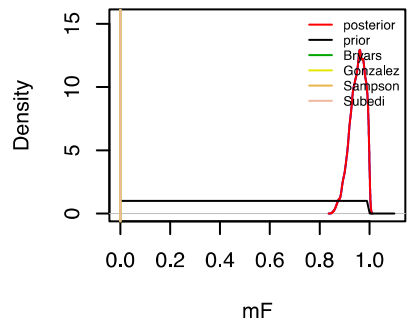
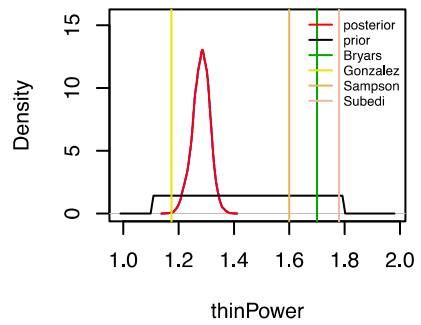
Fixed parameters

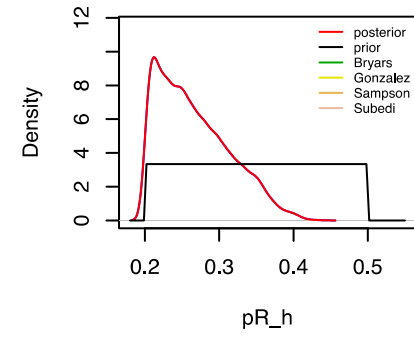
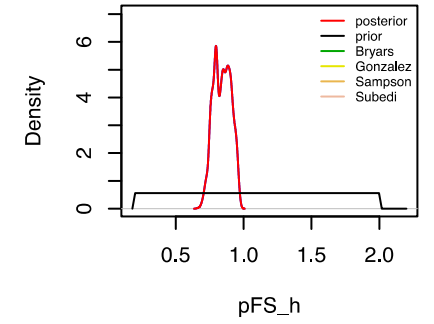
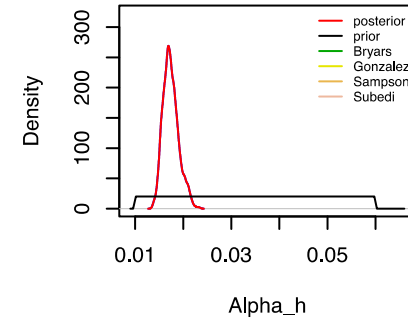
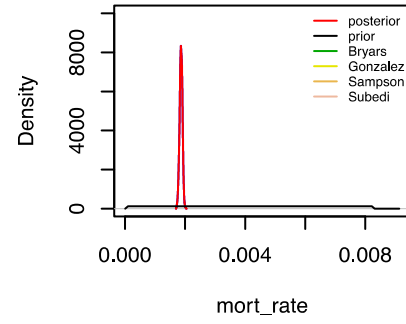
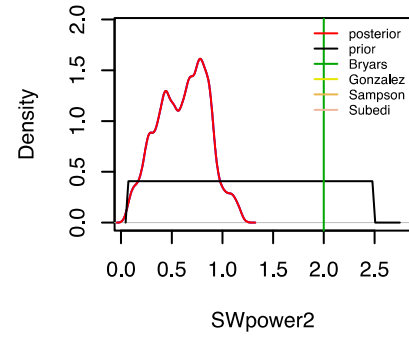
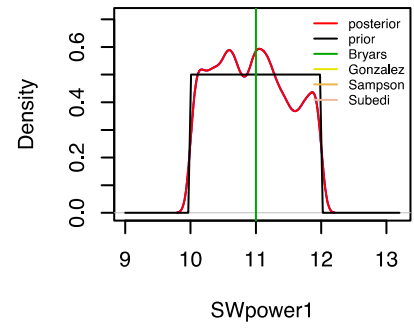
MaxIncptn = 0.2
LAImaxIntcptn = 5
fullCanAge = 3
Blcond = 0.1
mR = 0.3
rAge = 1.5 fCg700 = 1
Qa = -90
Qb = 0.8
gDM_mol = 24
molPAR_MJ = 2.3

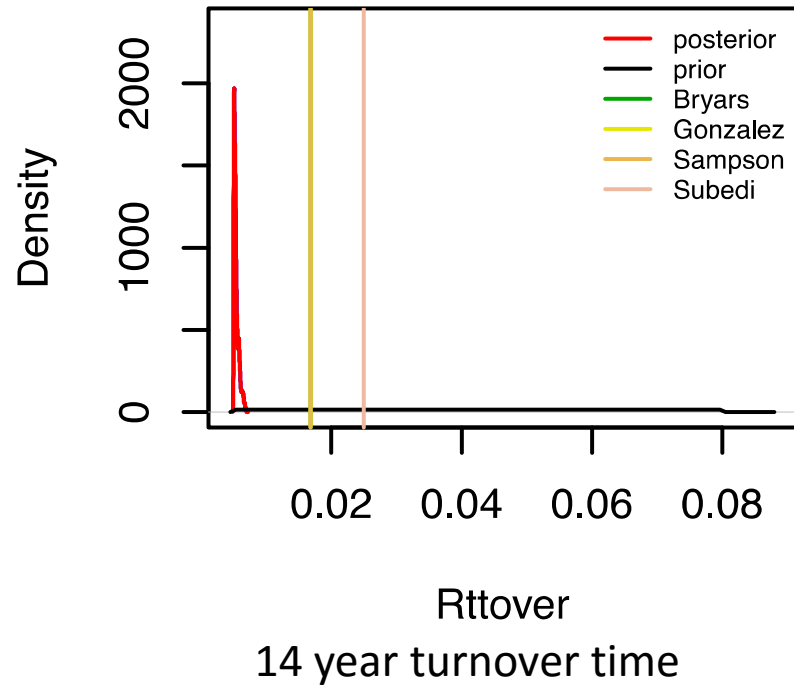
New parameters

SWpower1
SWpower2
SWconst1
SWconst1
Mort_rate
Alpha_h
pFS_h
pR_h
Mort_rate_h
SLA_h





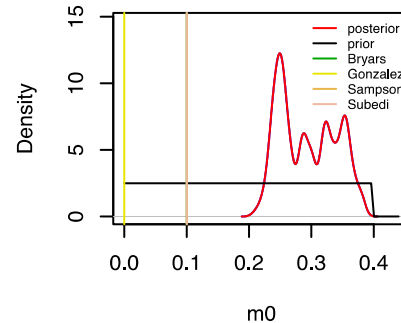
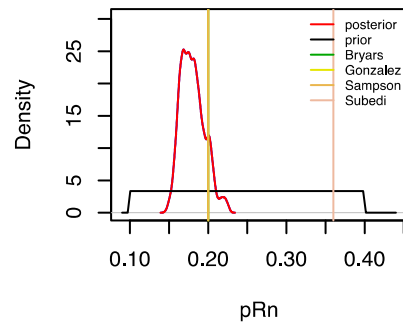
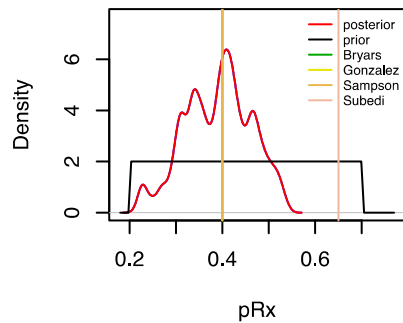




Question about the root turnover:

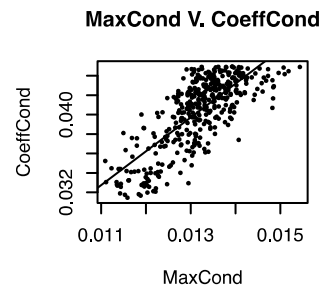
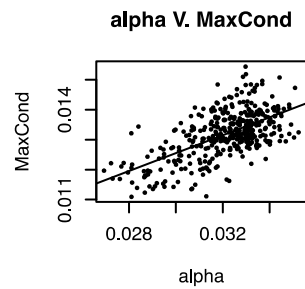
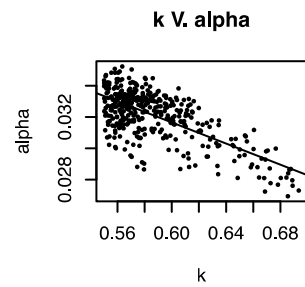
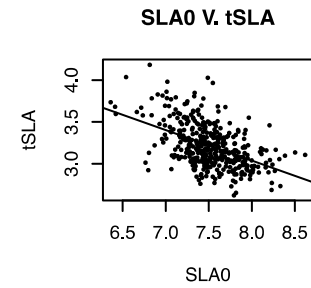
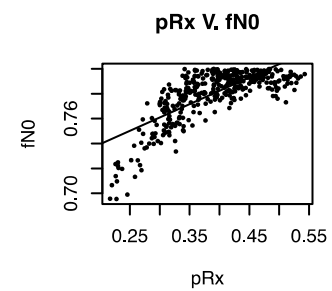
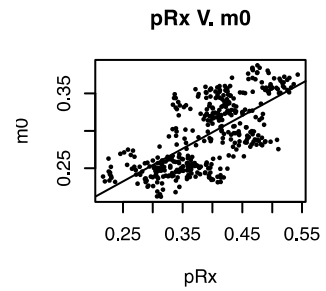
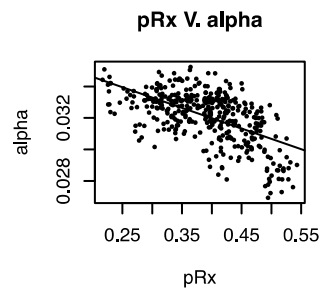
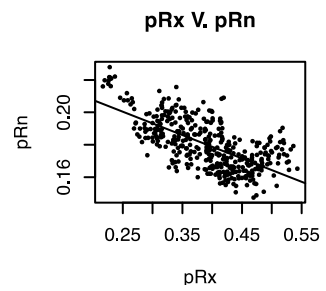
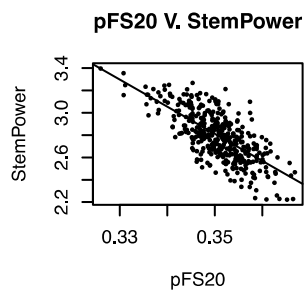
In 3PG the turnover is for all roots (coarse + fine)

What are reasonable priors for the combined (coarse + fine) turnover rate?



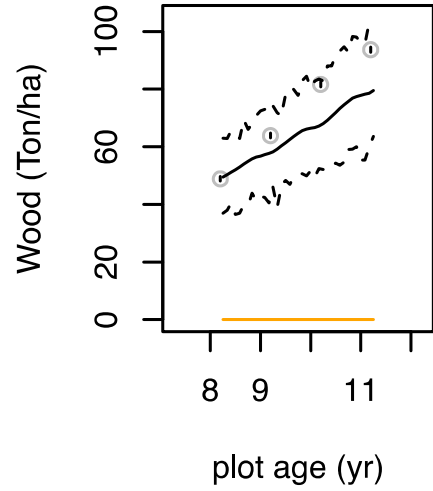
Challenging to constrain root parameters

Is the SETRES biomass and LAI data available to use in calibration?

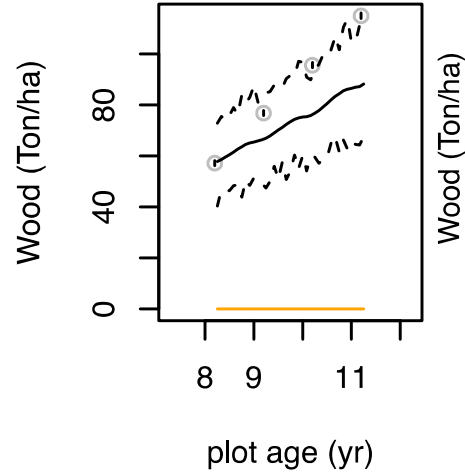


JUST AN EXAMPLE (ANALYSIS STILL RUNNING)

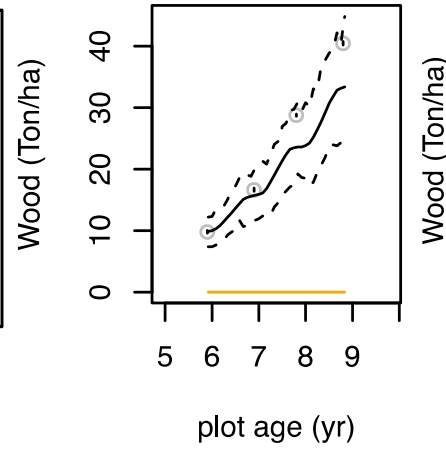
30001 FLTierIII



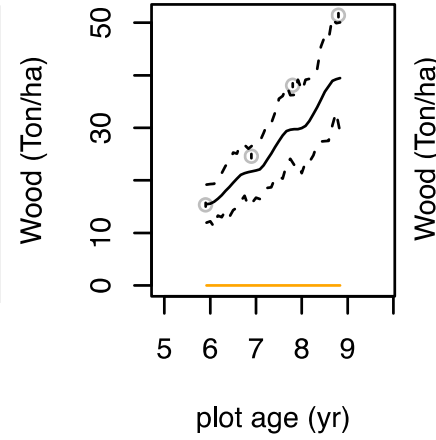
30005 FLTierIII



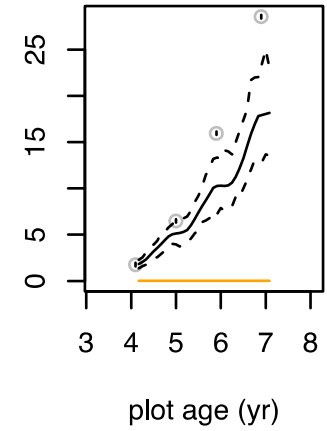
30017 GATierIII



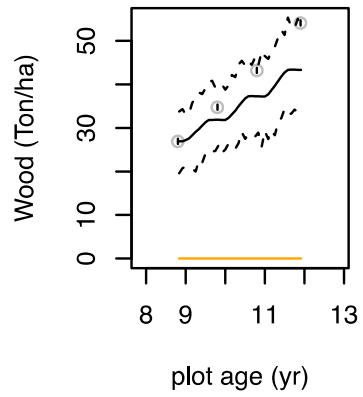
30021 GATierIII



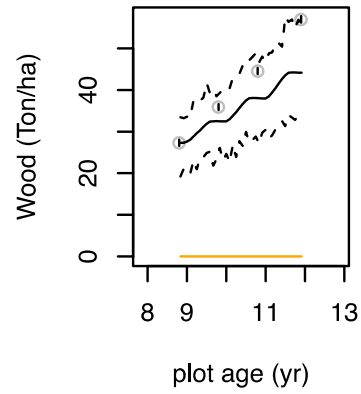
30037 OKTierIII



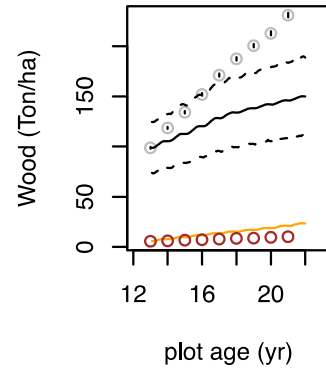
30049 VaTierIII



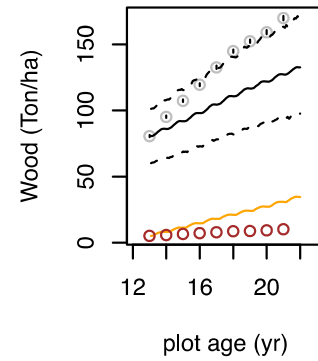
30053 VaTierIII



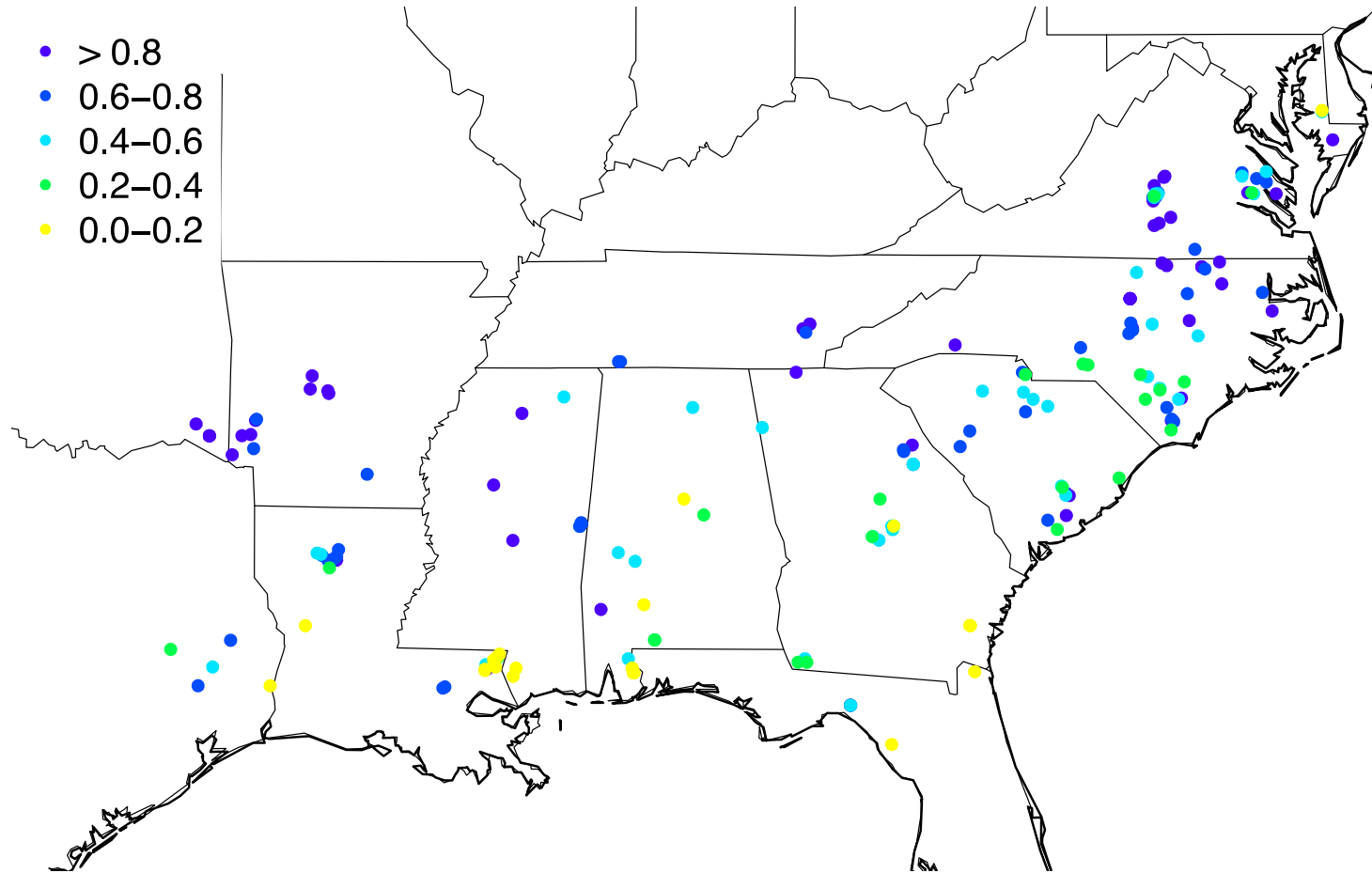
40003 DKFACE



40005 DKFACE



3PG FR



- > 0.8
- 0.6–0.8
- 0.4–0.6
- 0.2–0.4
- 0.0–0.2

Control plots (204)

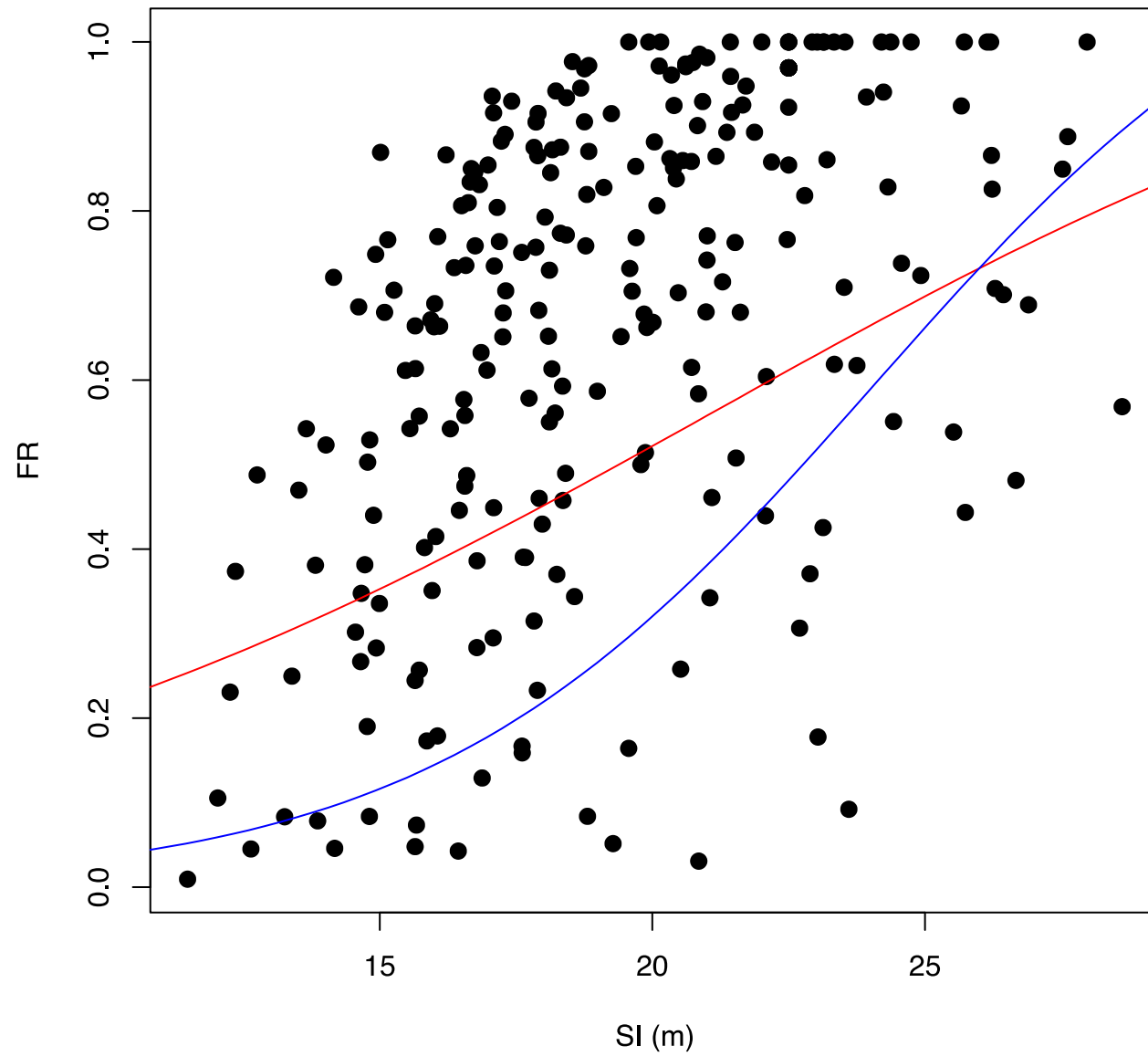
Tier 1: FMRC Thinning study (164)

Tier 2: FPC RW18 (18)

Tier 3 (16)

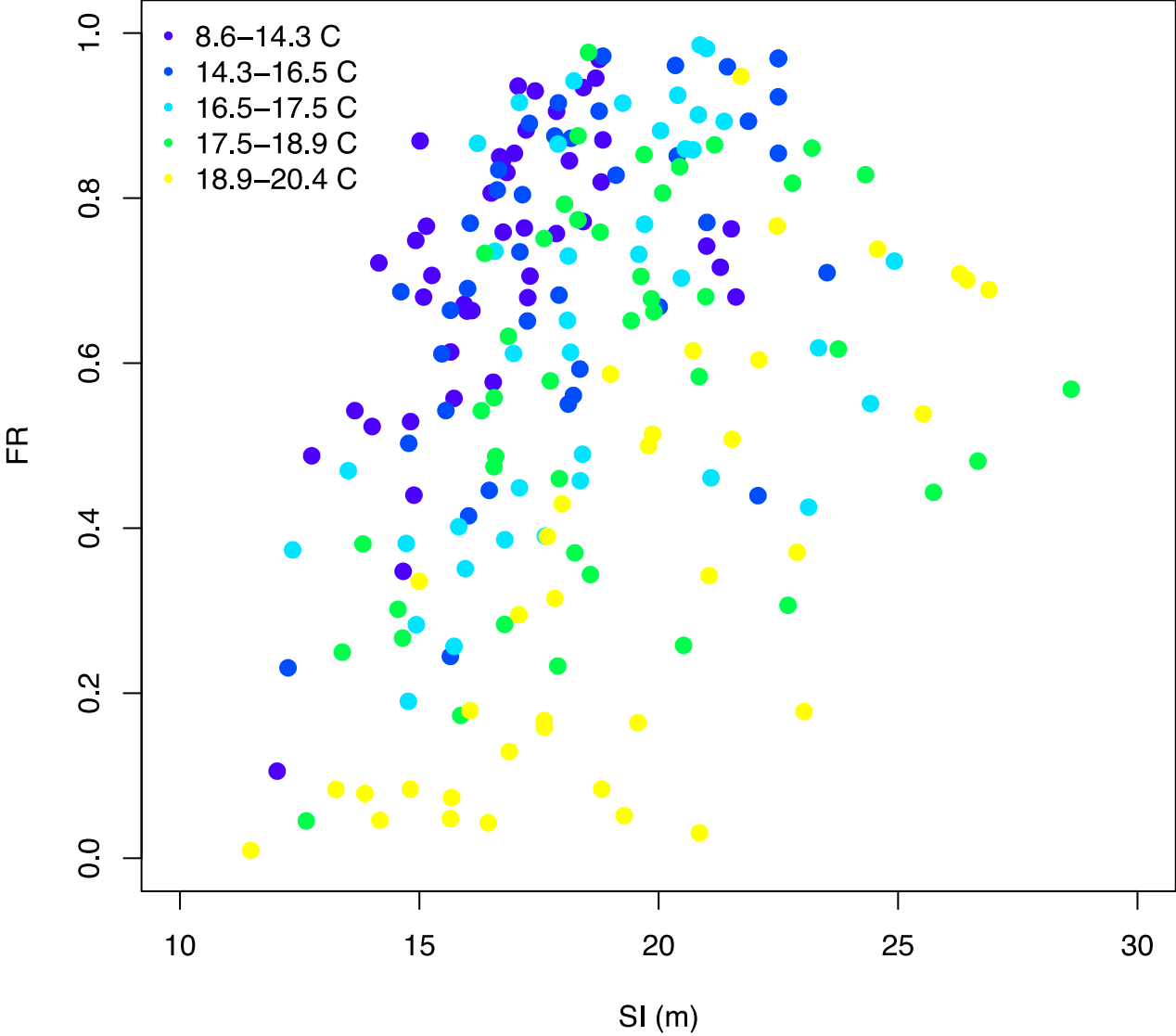
Duke FACE/Flux (5)

NC2 (1)



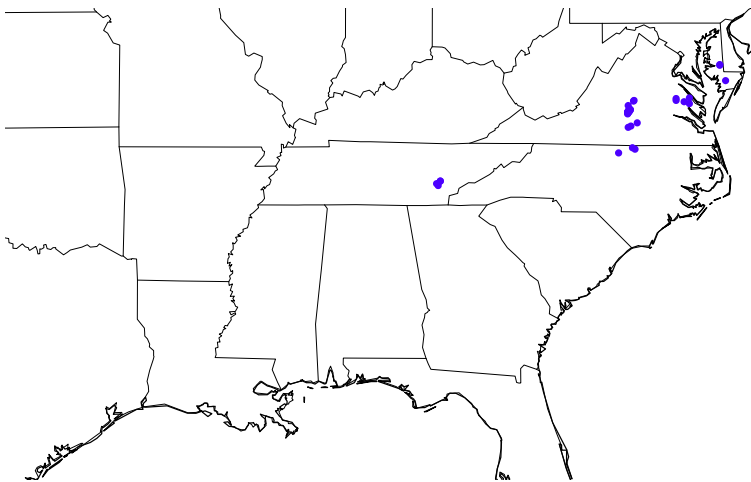
Red = Carlos
Blue = Santosh

SI vs FR (by Mean Annual Temperature)

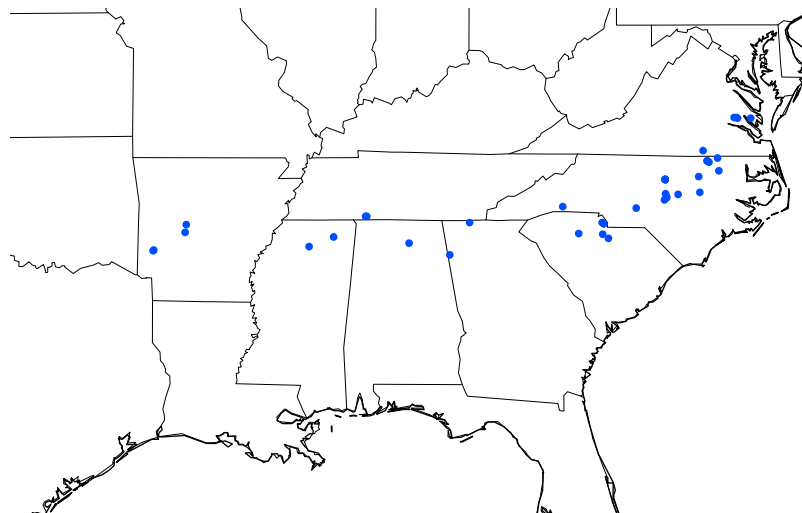


$$FR = B_0 + B_1SI + B_2MAT$$
$$FR = 1.24 + 0.04*SI - 0.08*MAT$$
$$R^2 = 0.49$$

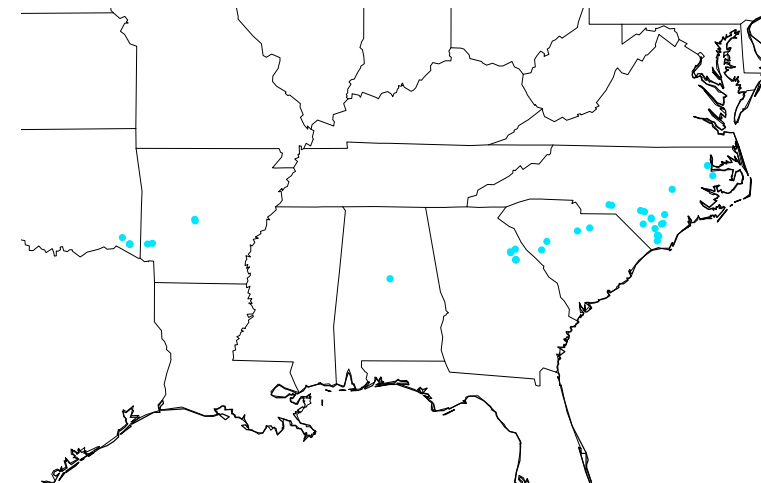
3PG FR



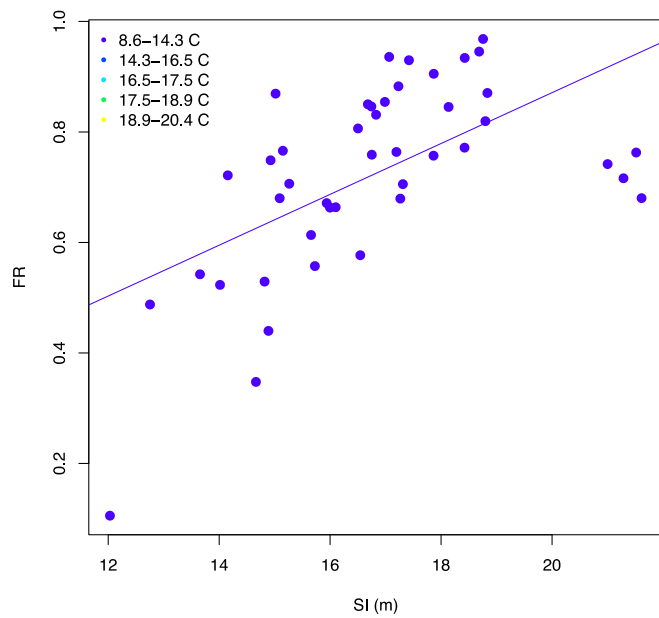
3PG FR



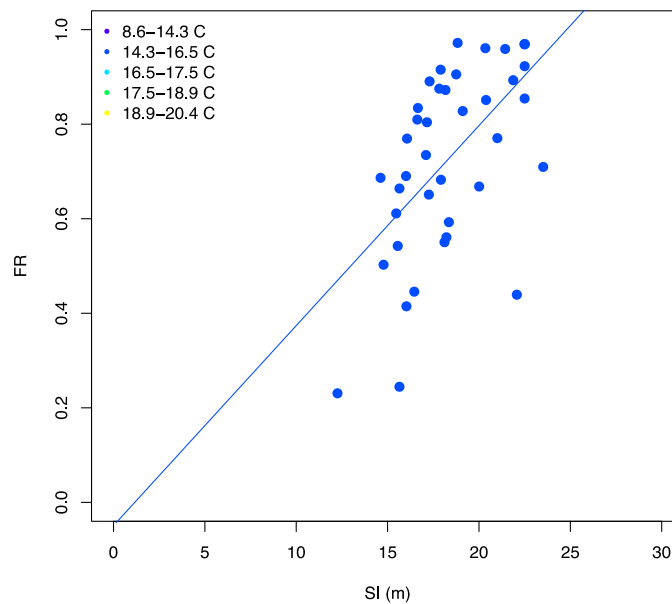
3PG FR



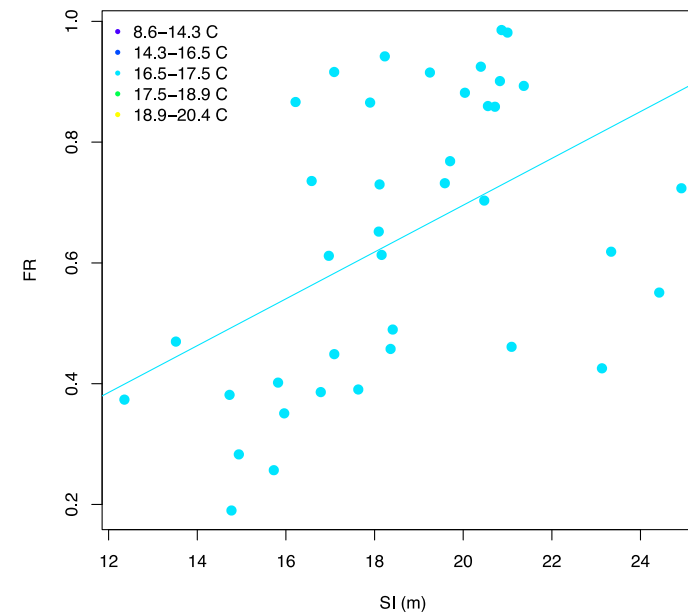
SI vs FR (by Mean Annual Temperature)



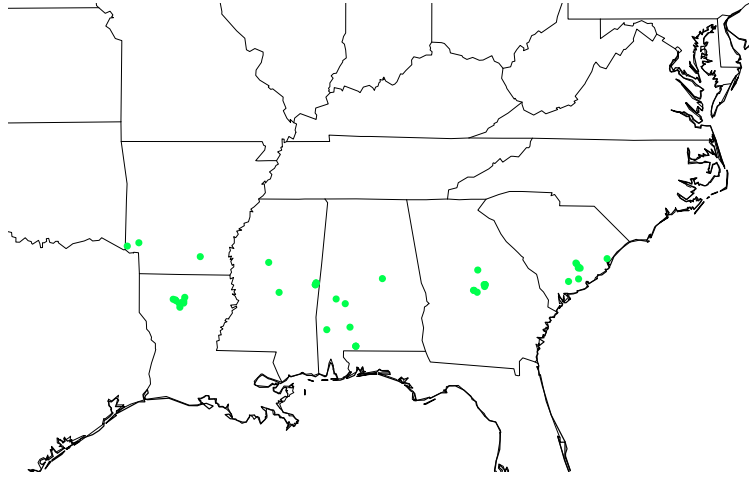
SI vs FR (by Mean Annual Temperature)



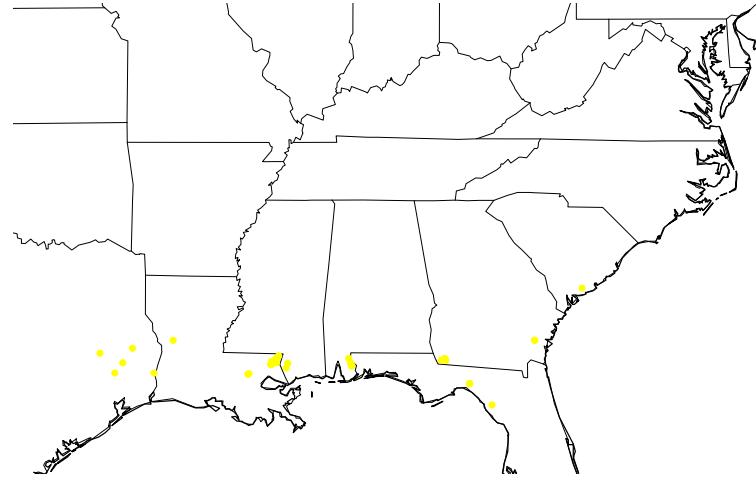
SI vs FR (by Mean Annual Temperature)



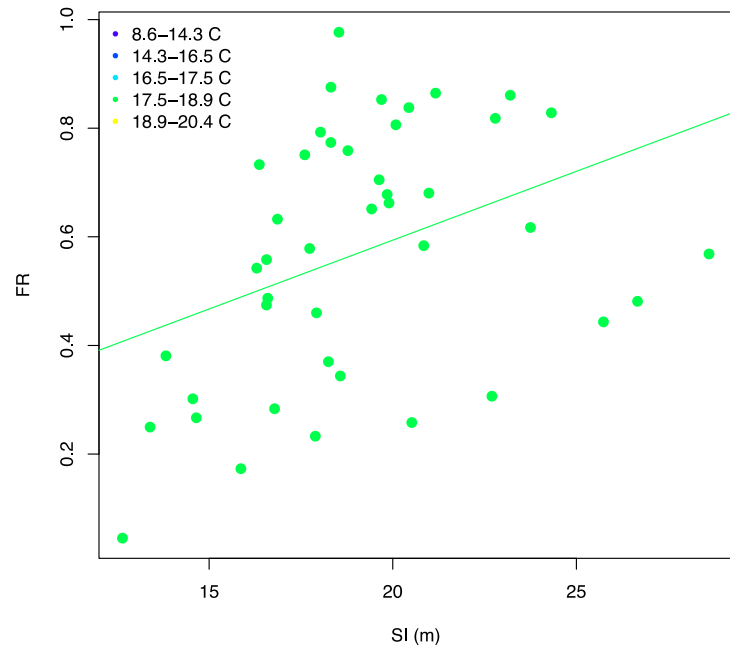
3PG FR



3PG FR



SI vs FR (by Mean Annual Temperature)



SI vs FR (by Mean Annual Temperature)

