(a) Rval 0.404 RMSerr 13.6

(b) Rval 0.481 RMSerr 13.1

(c) SJV
PM2.5 ~ (1 | DOY)
Rval 0.776 RMSerr 10.2

(d) SJV
PM2.5 ~ AOT/CWV + (1 | DOY)
Rval 0.875 RMSerr 7.44

(e) SJV
PM2.5 ~ AOT/CWV + (AOT/CWV + 1 | DOY)
Rval 0.904 RMSerr 6.72

(f) SJV
PM2.5 ~ AOT/CWV* + lon − mean(long) + (AOT/CWV*+1 | DOY)
Rval 0.911 RMSerr 6.48