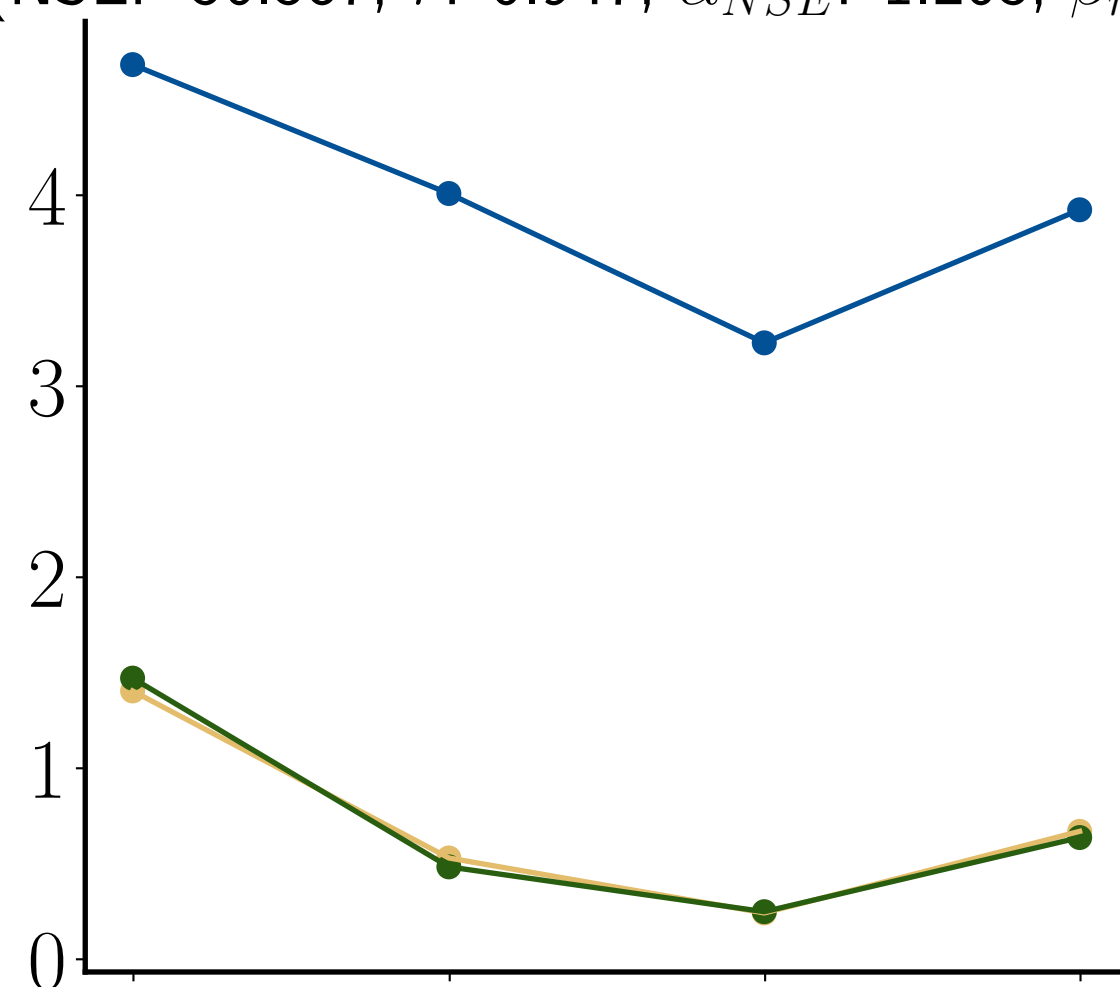


# Alice Springs (Site ID: AU-ASM PFT: WSA KG: BWh)

Annual average GPP  
[ $\mu\text{mol CO}_2 \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ ]

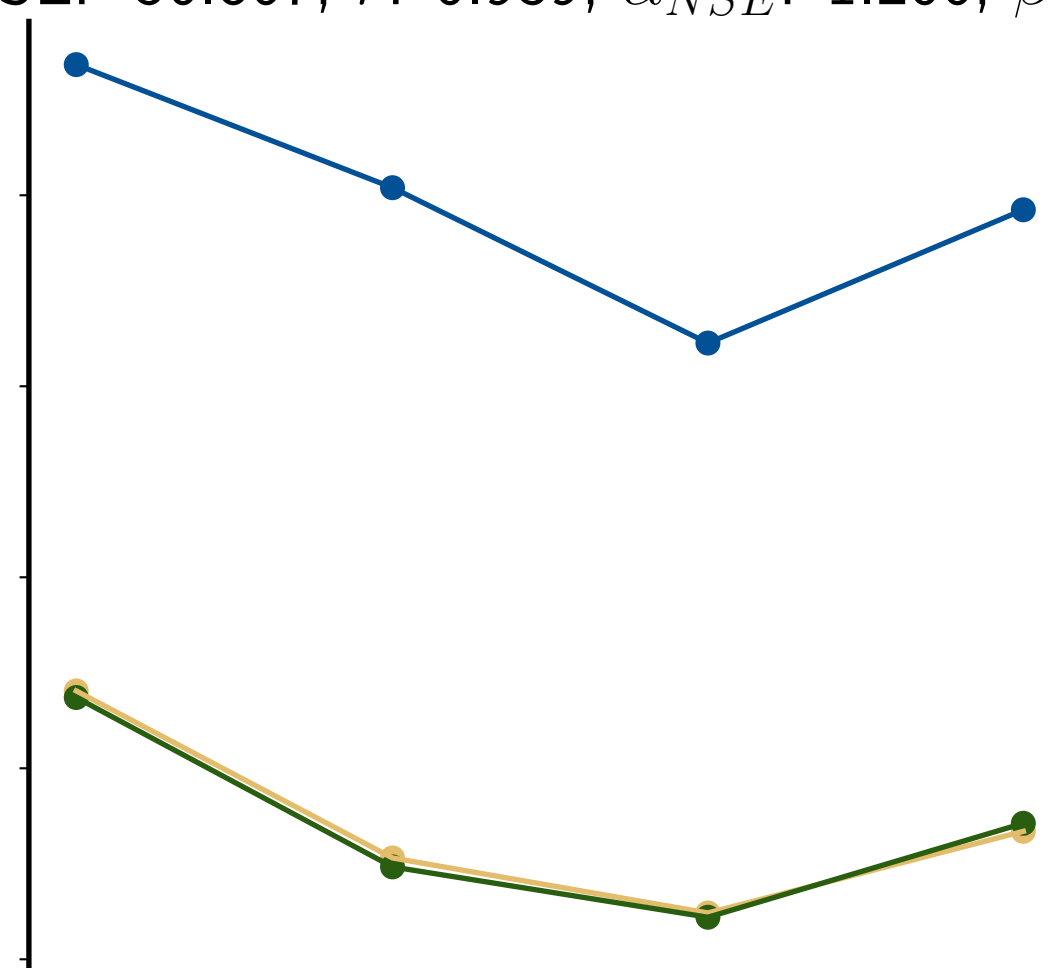
(a) Per site-year parameterization

$P_{\text{hr}}^{\text{W}}$ : (NSE: 0.989,  $r$ : 0.998,  $\alpha_{\text{NSE}}$ : 1.075,  $\beta_n$ : -0.003)  
 $P_{\text{hr}}$ : (NSE: -56.587,  $r$ : 0.947,  $\alpha_{\text{NSE}}$ : 1.203,  $\beta_n$ : 7.578)



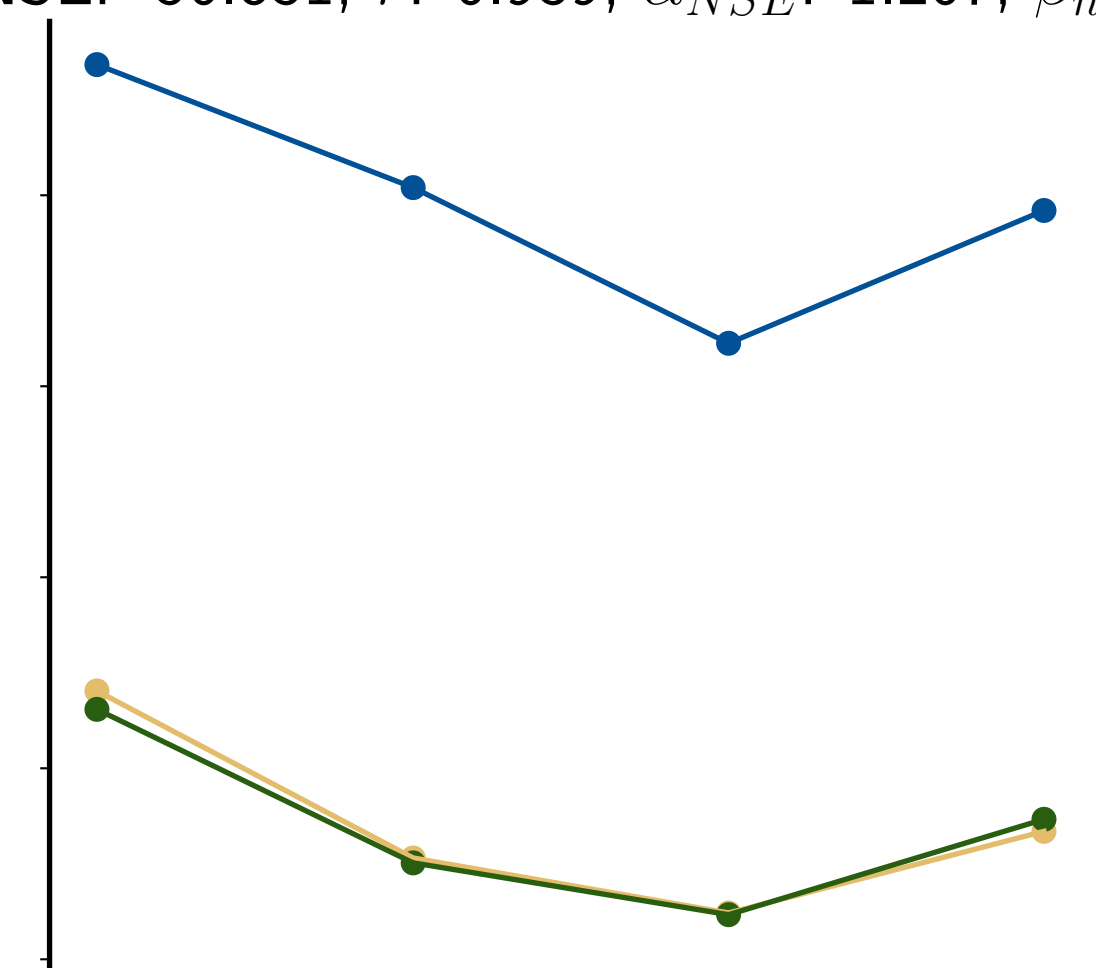
(b) Per site parameterization using  $\text{Cost}^{\text{IAV}}$

$P_{\text{hr}}^{\text{W}}$ : (NSE: 0.992,  $r$ : 0.997,  $\alpha_{\text{NSE}}$ : 0.994,  $\beta_n$ : -0.036)  
 $P_{\text{hr}}$ : (NSE: -56.867,  $r$ : 0.939,  $\alpha_{\text{NSE}}$ : 1.206,  $\beta_n$ : 7.595)



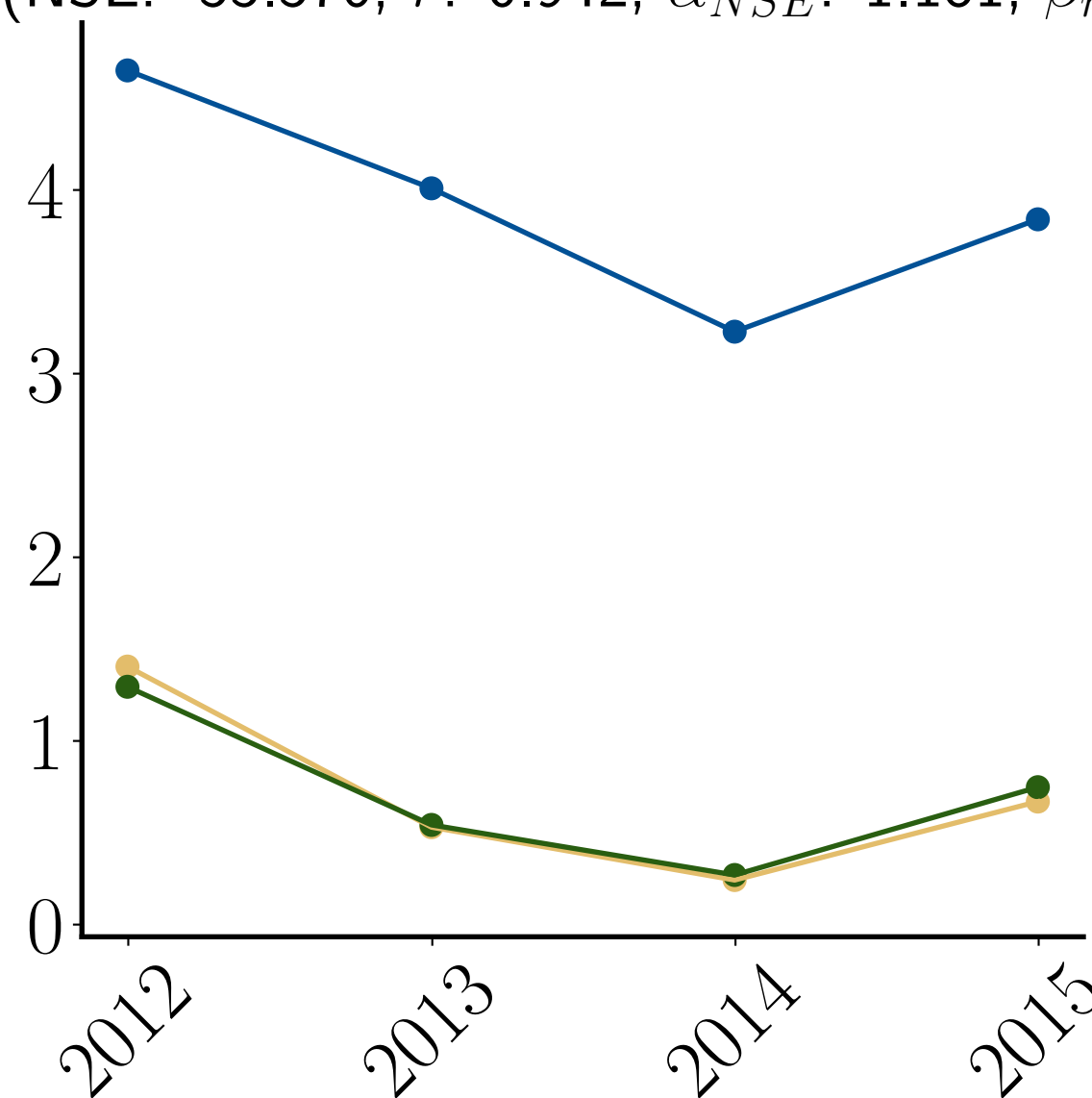
(c) Per site parameterization

$P_{\text{hr}}^{\text{W}}$ : (NSE: 0.981,  $r$ : 0.994,  $\alpha_{\text{NSE}}$ : 0.923,  $\beta_n$ : -0.04)  
 $P_{\text{hr}}$ : (NSE: -56.831,  $r$ : 0.939,  $\alpha_{\text{NSE}}$ : 1.207,  $\beta_n$ : 7.592)



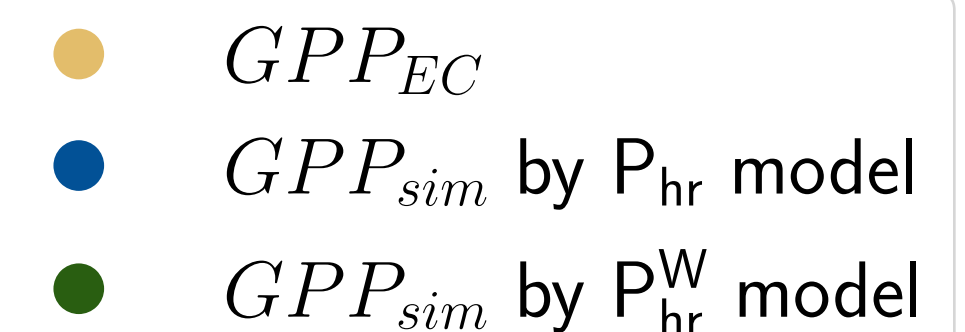
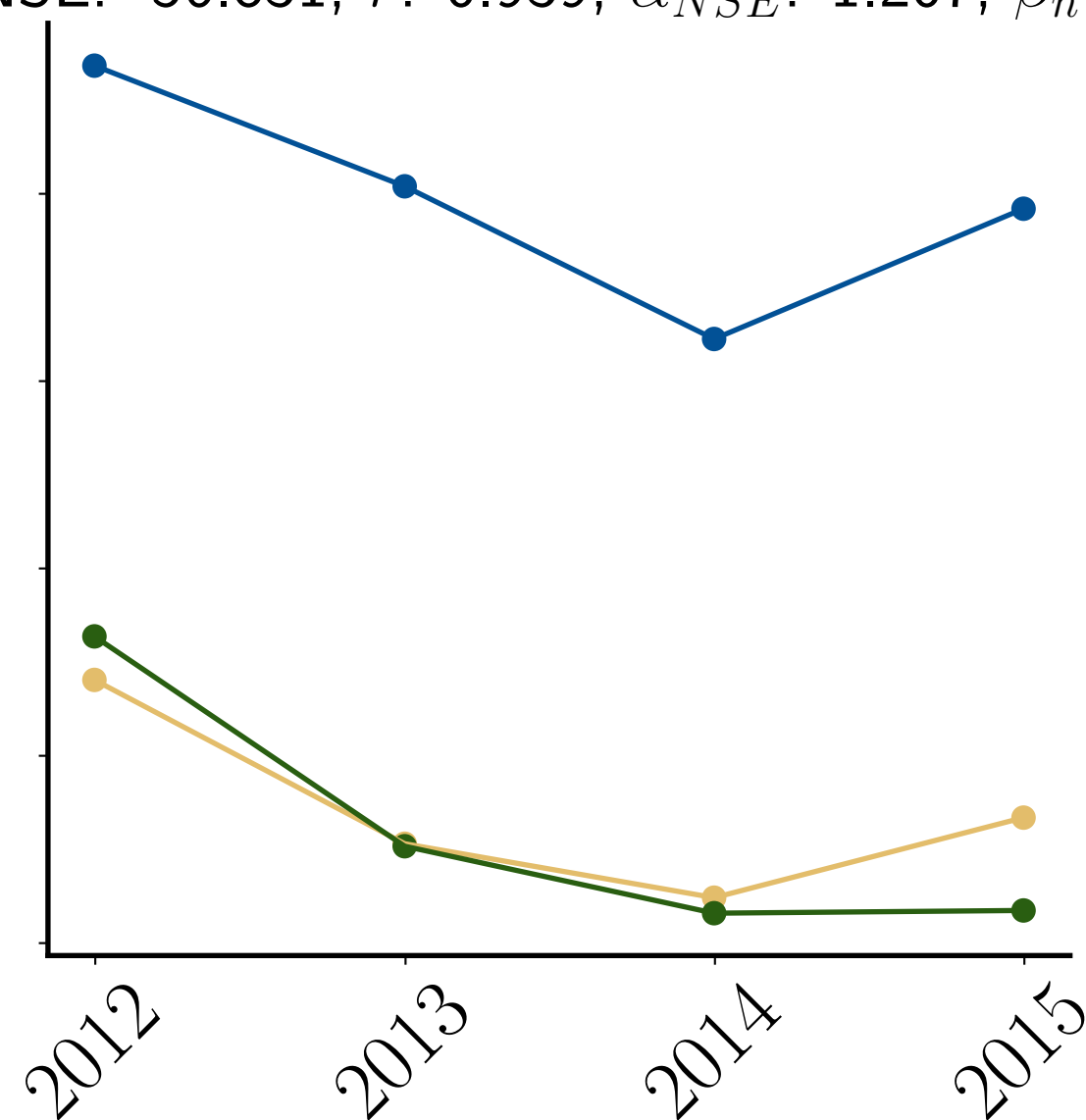
(d) Per PFT parameterization

$P_{\text{hr}}^{\text{W}}$ : (NSE: 0.974,  $r$ : 0.994,  $\alpha_{\text{NSE}}$ : 0.877,  $\beta_n$ : 0.005)  
 $P_{\text{hr}}$ : (NSE: -55.576,  $r$ : 0.942,  $\alpha_{\text{NSE}}$ : 1.181,  $\beta_n$ : 7.51)



(e) Global parameterization

$P_{\text{hr}}^{\text{W}}$ : (NSE: 0.583,  $r$ : 0.926,  $\alpha_{\text{NSE}}$ : 1.407,  $\beta_n$ : -0.209)  
 $P_{\text{hr}}$ : (NSE: -56.831,  $r$ : 0.939,  $\alpha_{\text{NSE}}$ : 1.207,  $\beta_n$ : 7.592)



Years