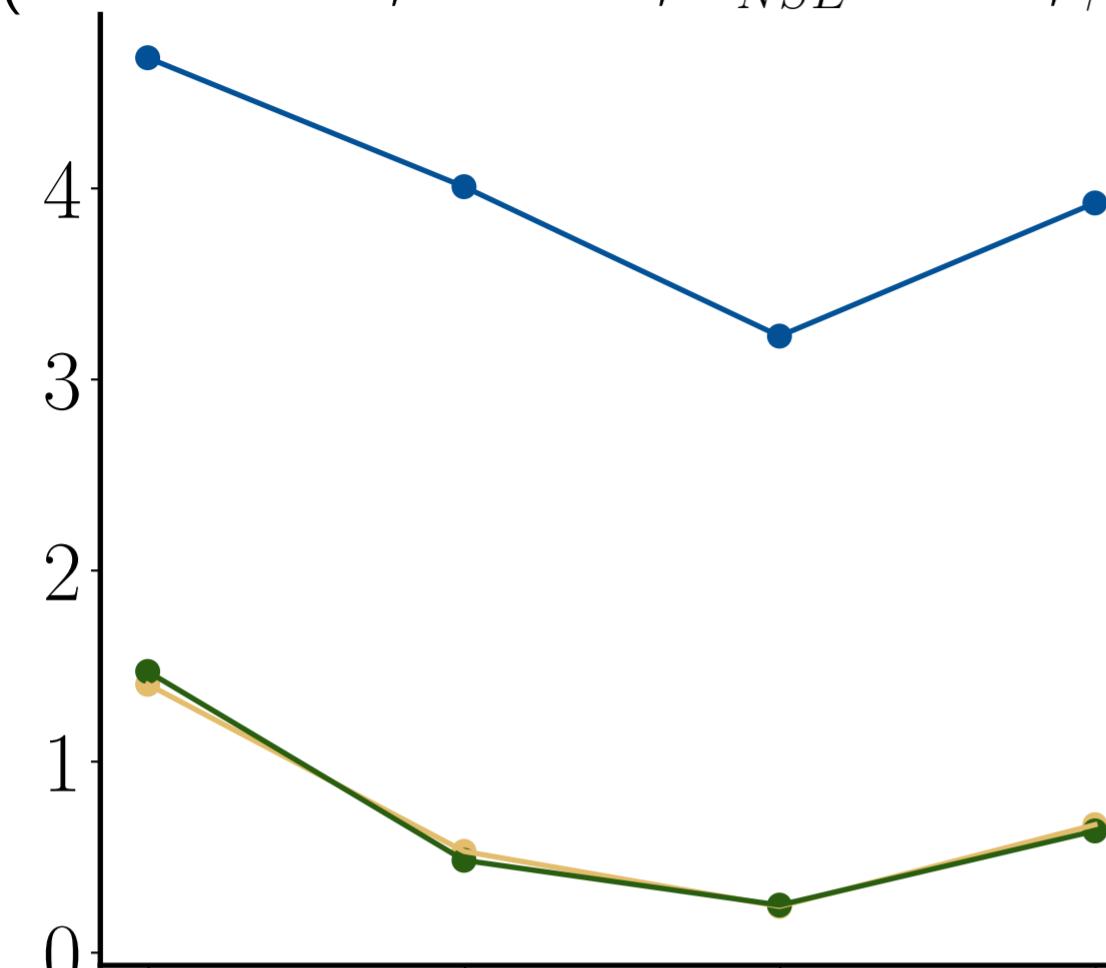


Alice Springs (Site ID: AU-ASM PFT: WSA KG: BWh)

(a) Per site–year parameterization

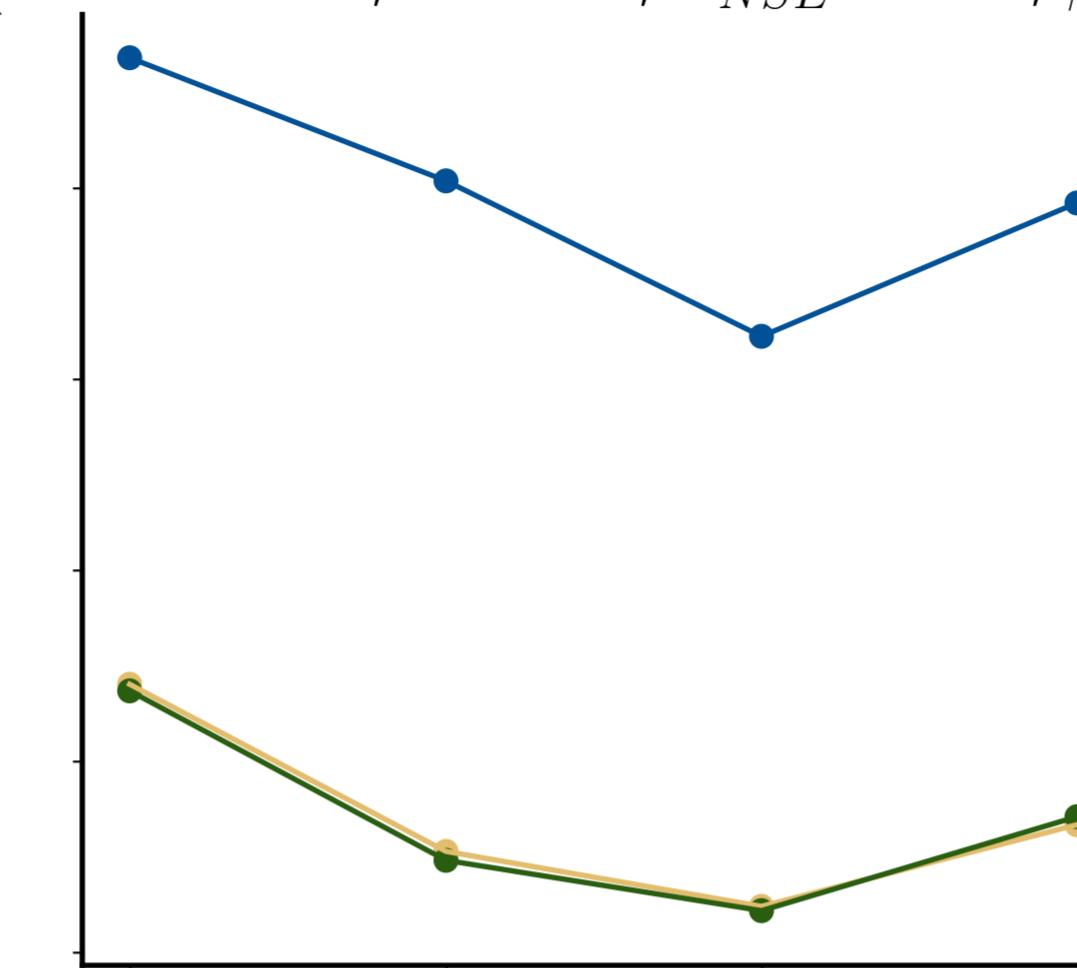
P_{hr}^W : (NSE: 0.989, r : 0.998, α_{NSE} : 1.075, β_n : -0.003)
 P_{hr} : (NSE: -56.587, r : 0.947, α_{NSE} : 1.203, β_n : 7.578)

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



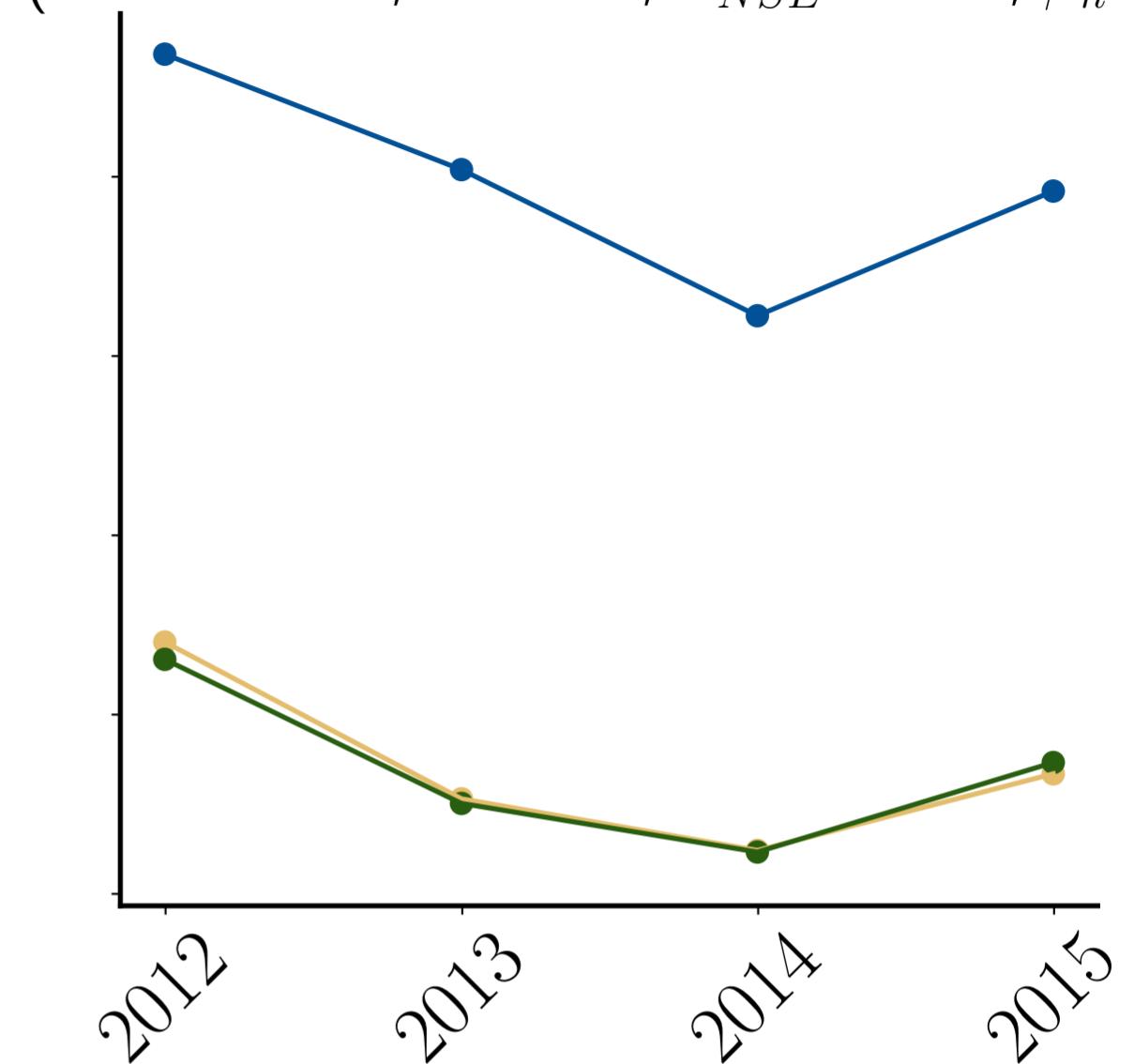
(b) Per site parameterization using Cost^{IAV}

P_{hr}^W : (NSE: 0.992, r : 0.997, α_{NSE} : 0.994, β_n : -0.036)
 P_{hr} : (NSE: -56.867, r : 0.939, α_{NSE} : 1.206, β_n : 7.595)



(c) Per site parameterization

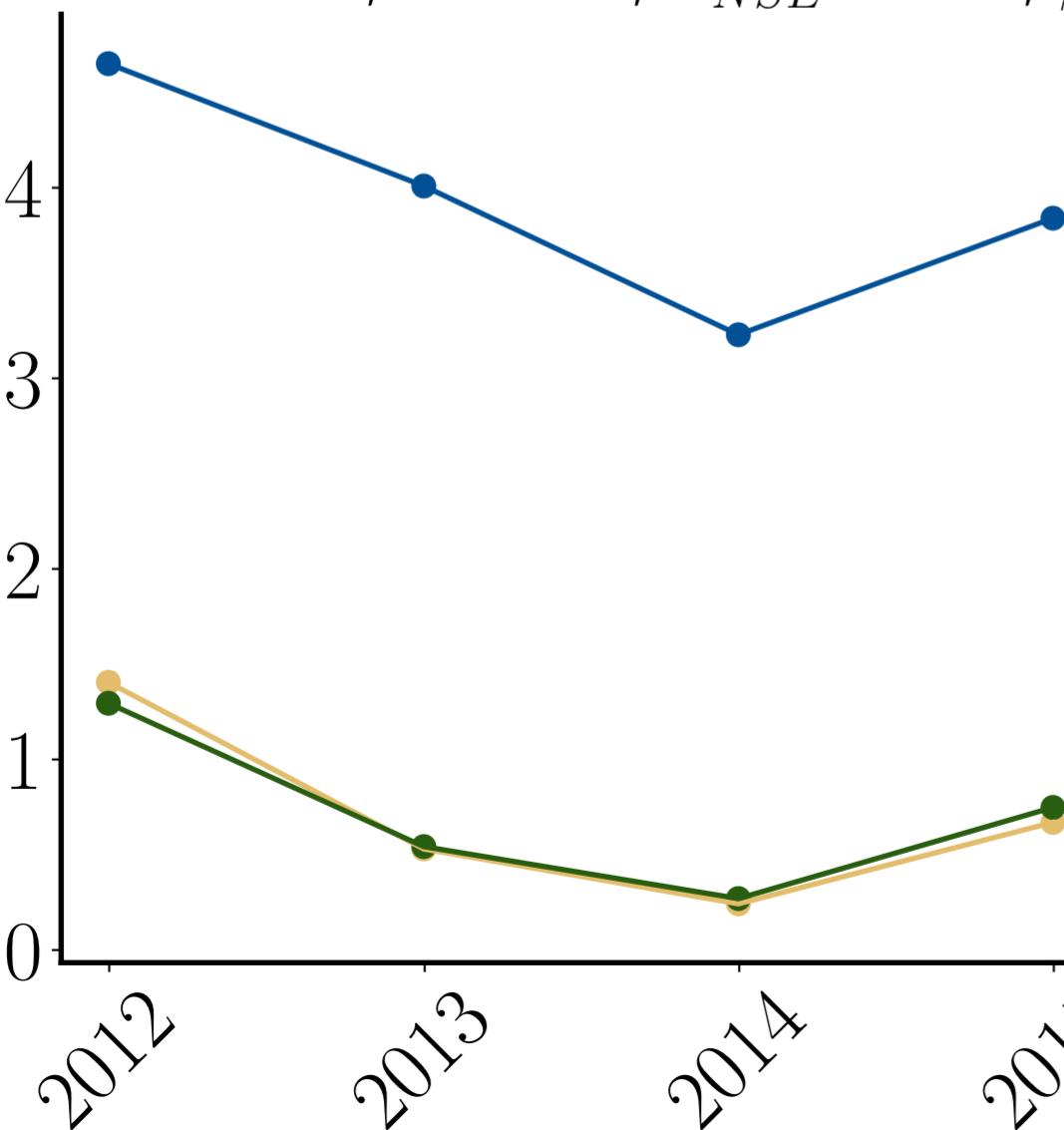
P_{hr}^W : (NSE: 0.981, r : 0.994, α_{NSE} : 0.923, β_n : -0.04)
 P_{hr} : (NSE: -56.831, r : 0.939, α_{NSE} : 1.207, β_n : 7.592)



(d) Per PFT parameterization

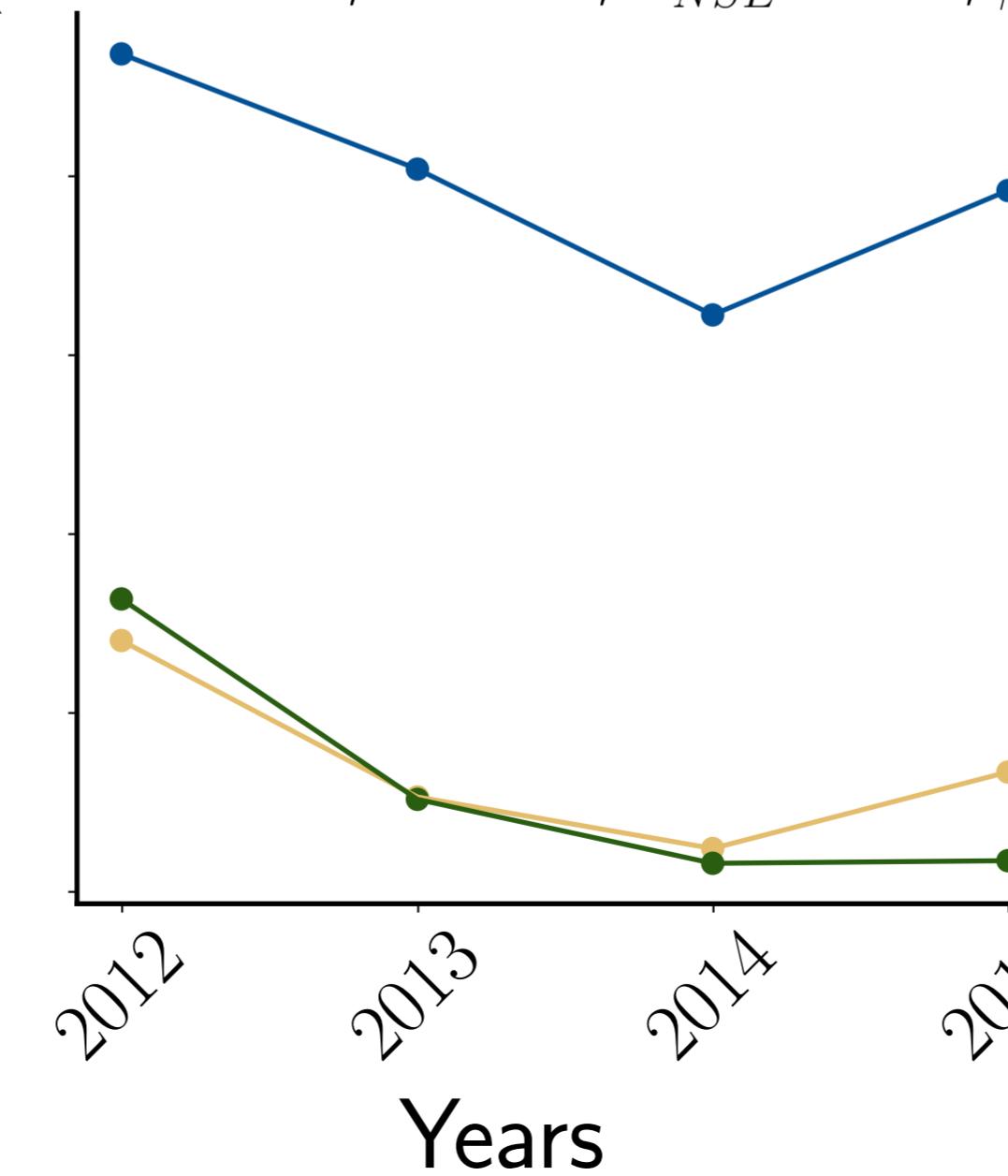
P_{hr}^W : (NSE: 0.974, r : 0.994, α_{NSE} : 0.877, β_n : 0.005)
 P_{hr} : (NSE: -55.576, r : 0.942, α_{NSE} : 1.181, β_n : 7.51)

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



(e) Global parameterization

P_{hr}^W : (NSE: 0.583, r : 0.926, α_{NSE} : 1.407, β_n : -0.209)
 P_{hr} : (NSE: -56.831, r : 0.939, α_{NSE} : 1.207, β_n : 7.592)



- GPP_{EC}
- GPP_{sim} by P_{hr} model
- GPP_{sim} by P_{hr}^W model