

P2. Initial ELM-FATES experiments

P1. Parameter sampling

Latin hypercube sampling

Tradeoffs between early PFT vs. late PFT

Apply
Trait relationships

Par-OBS
1500 ensembles

Exp-OBS

Out-OBS
1500 ensembles

Fewer coexistence

Par-CTR
1500 ensembles

Exp-CTR

Out-CTR
1500 ensembles

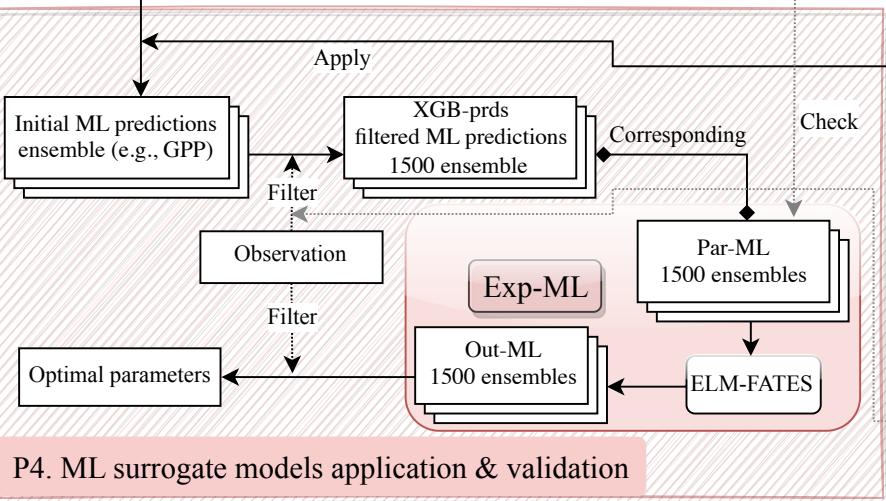
Coexistence analysis

More coexistence

Visualization analysis:
parameter correlations of
coexistent ensemble

X

Y



P3. ML surrogate models & sensitivity analysis

Observation filtering rules

Relative biases of GPP, AGB, ET, SH, BW < 15%
PFT coexistence, BR_{e2t} within [0.3,0.7]