

MABM power analysis parameters

| Variable | expression | type | value |
|-----------------|-------------------|--------|---------------------------------|
| n.sim | N_{sim} | N | 500 |
| n_years | n_{yrs} | grid | 10, 20 |
| survey_interval | n_{yrs} | grid | 1, 2 |
| n_sites | n_{sites} | grid | 50, 100, 200 |
| n_visits | n_{visits} | frozen | 2 |
| annual_r | r_{ann} | grid | -0.011441, -0.027345, -0.050000 |
| spp | spp | grid | LABO, EPFU, NYHU, PESU, MYLU |
| base_C | C_0 | frozen | 12, 1, 12, 15, 2 |
| negbin | nb | frozen | TRUE, TRUE, TRUE, TRUE, TRUE |
| theta | θ | frozen | 2.85, 2.2, 3.85, 3.45, 2.2 |
| sigma_site | σ_{site} | frozen | 0.4, 1.15, 0.55, 0.6, 0.2 |
| sigma_r_site | σ_r | frozen | 0.15 |
| sigma_yr | σ_{yr} | frozen | 0.15 |
| site_cov_b | b_{site} | frozen | 0 |
| obs_cov_b | b_{obs} | frozen | 0 |
| omit_site_cov | $omit_{b_{site}}$ | frozen | FALSE |
| omit_obs_cov | $omit_{b_{obs}}$ | frozen | FALSE |