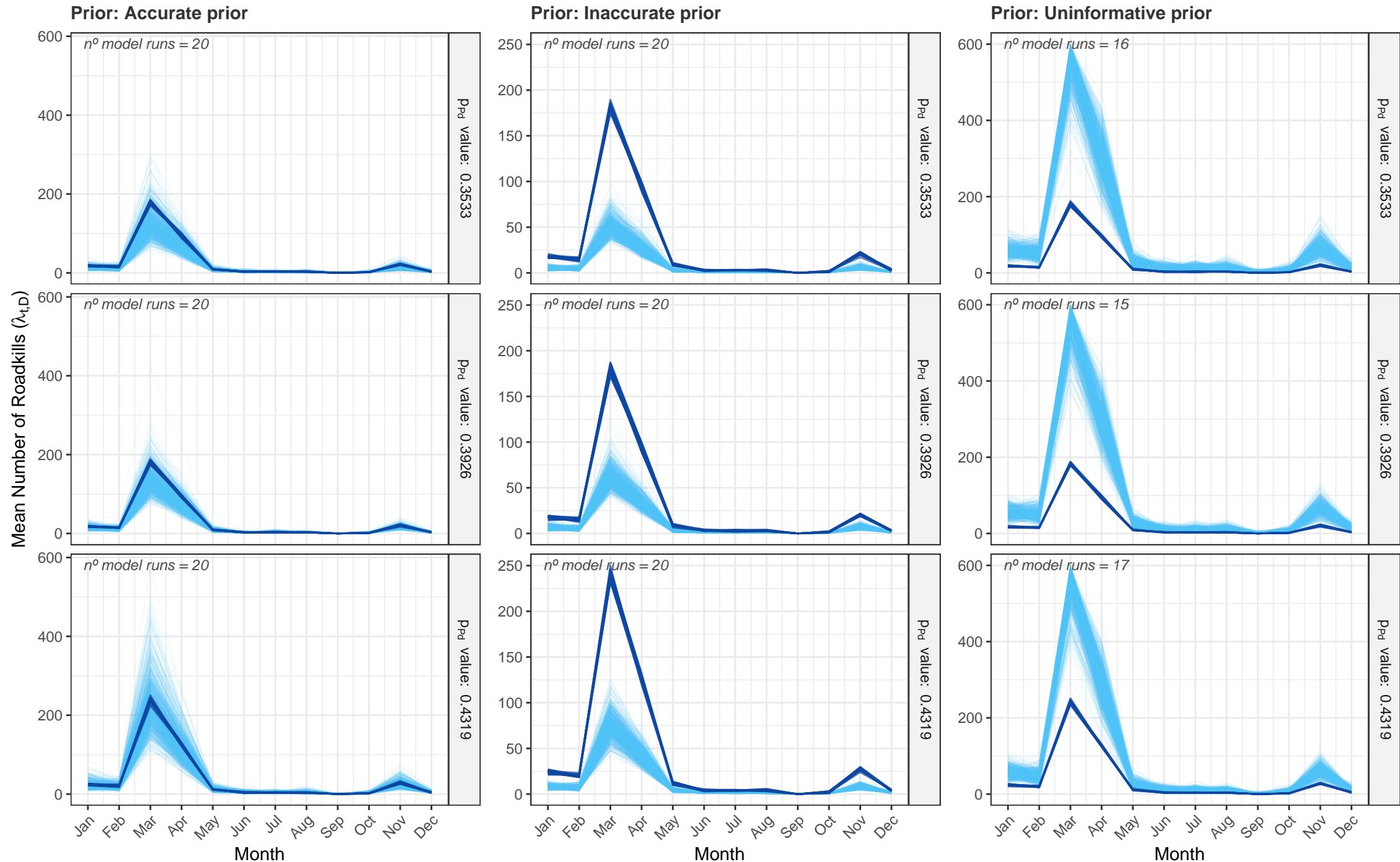


Amphibians: Posterior Estimation Overlap per Simulation Scenario

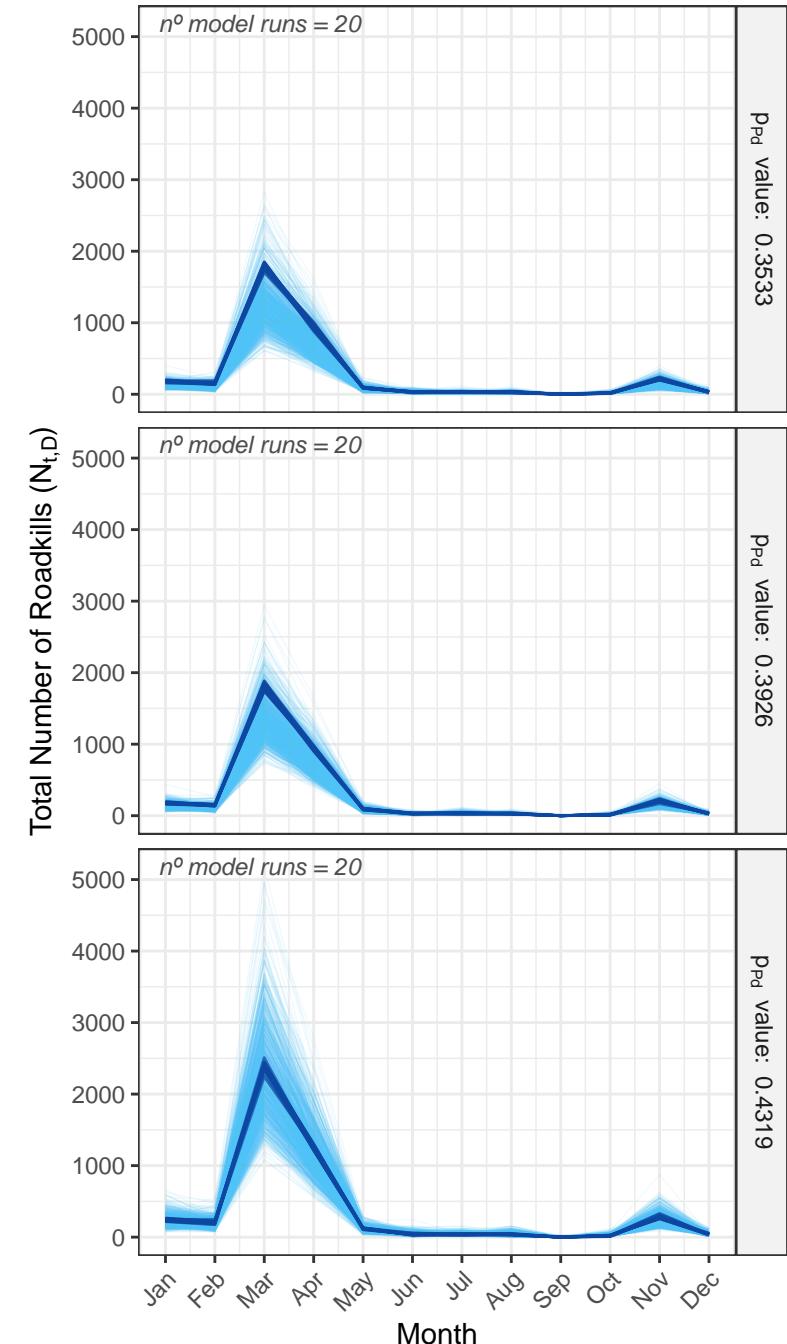
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



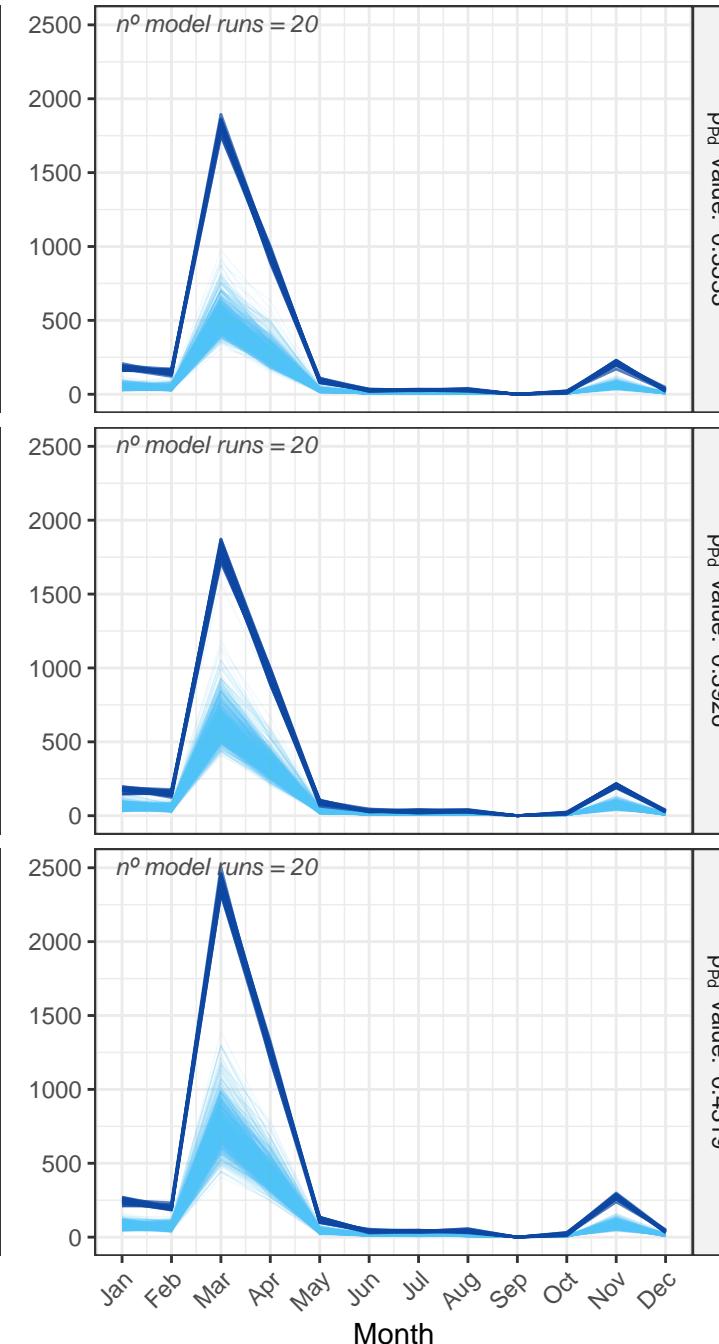
Amphibians: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

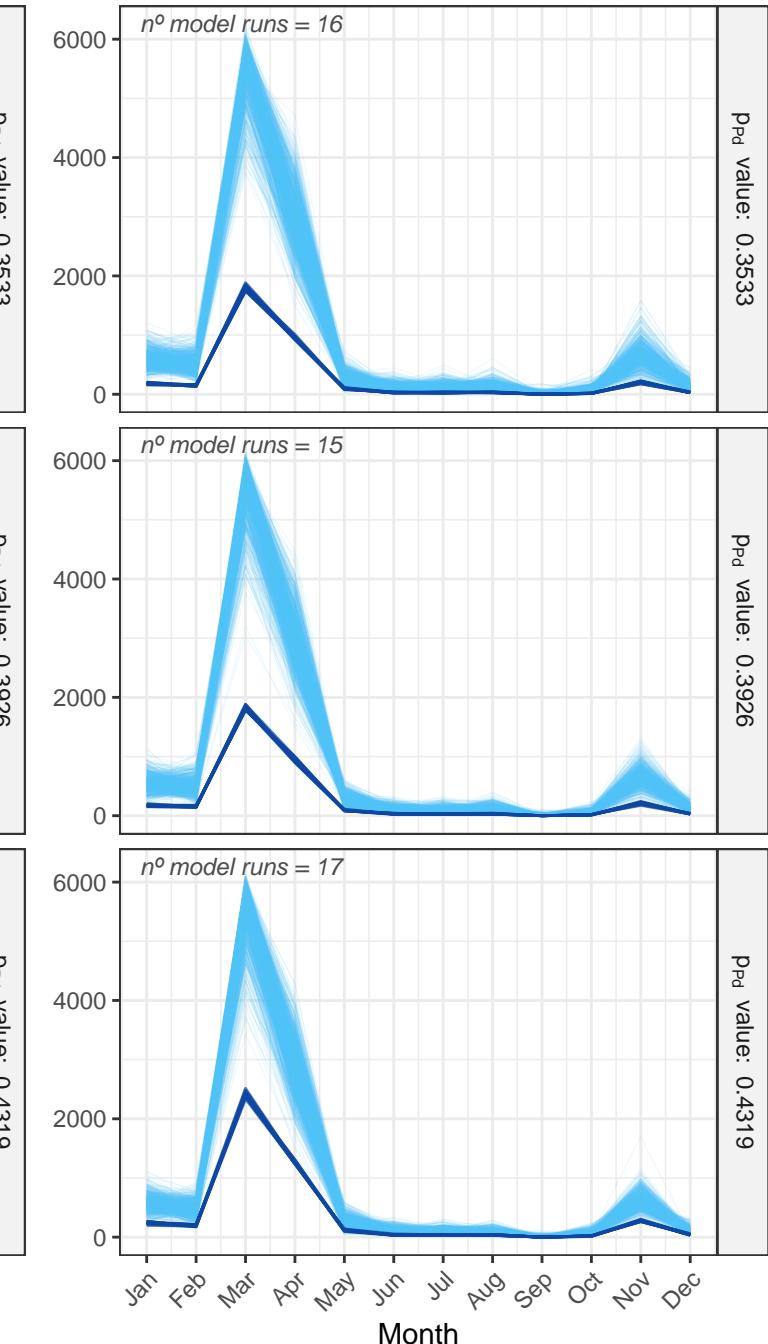
Prior: Accurate prior



Prior: Inaccurate prior



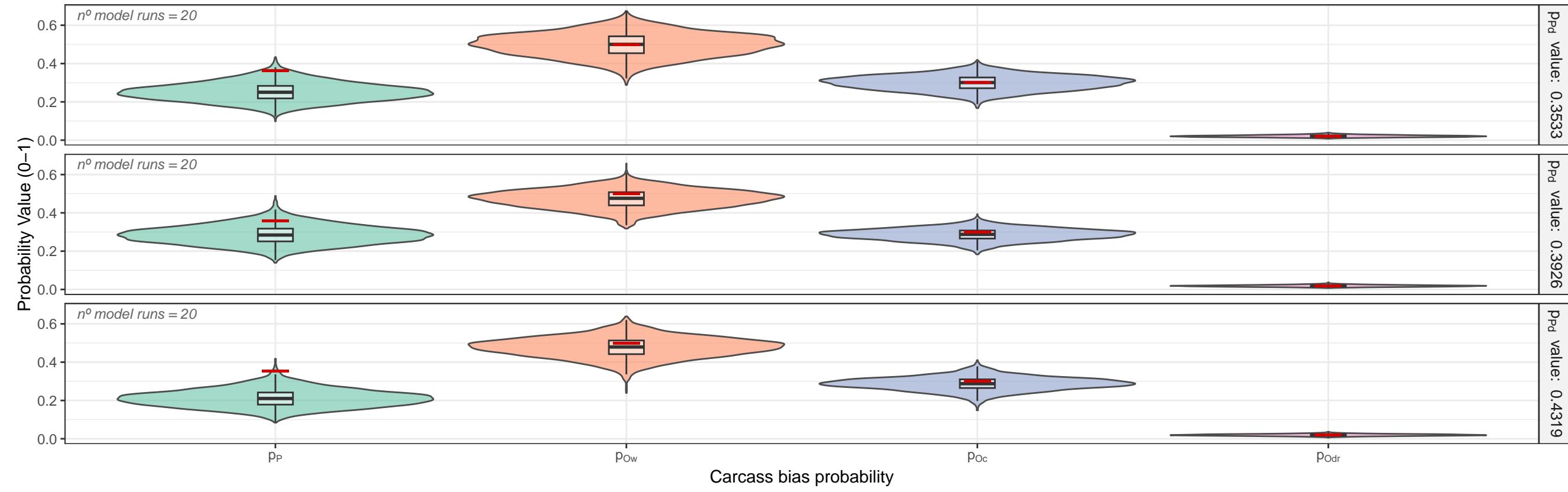
Prior: Uninformative prior



Amphibians – Complete carcass bias probabilities recovery across simulation scenarios

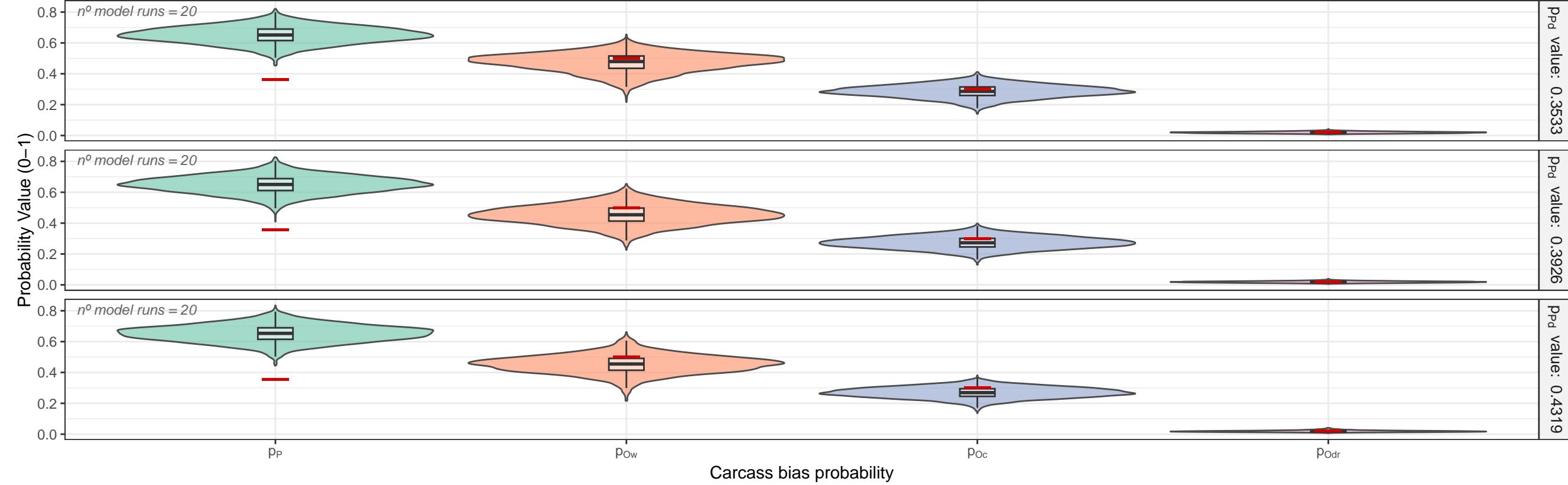
Amphibians – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



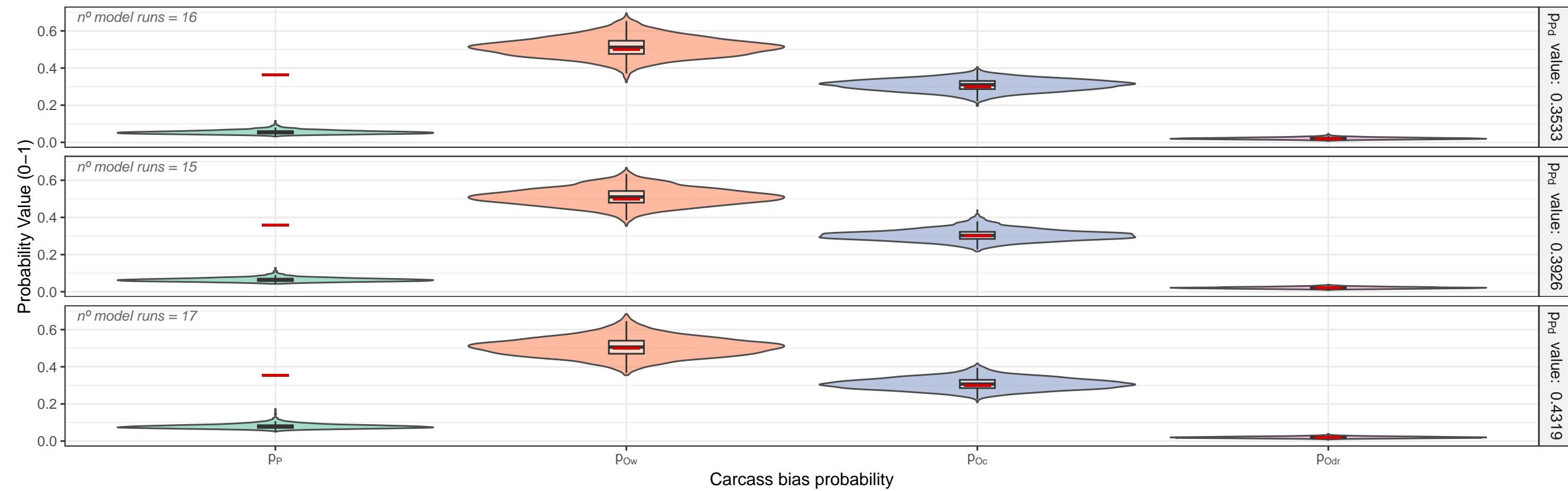
Amphibians – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



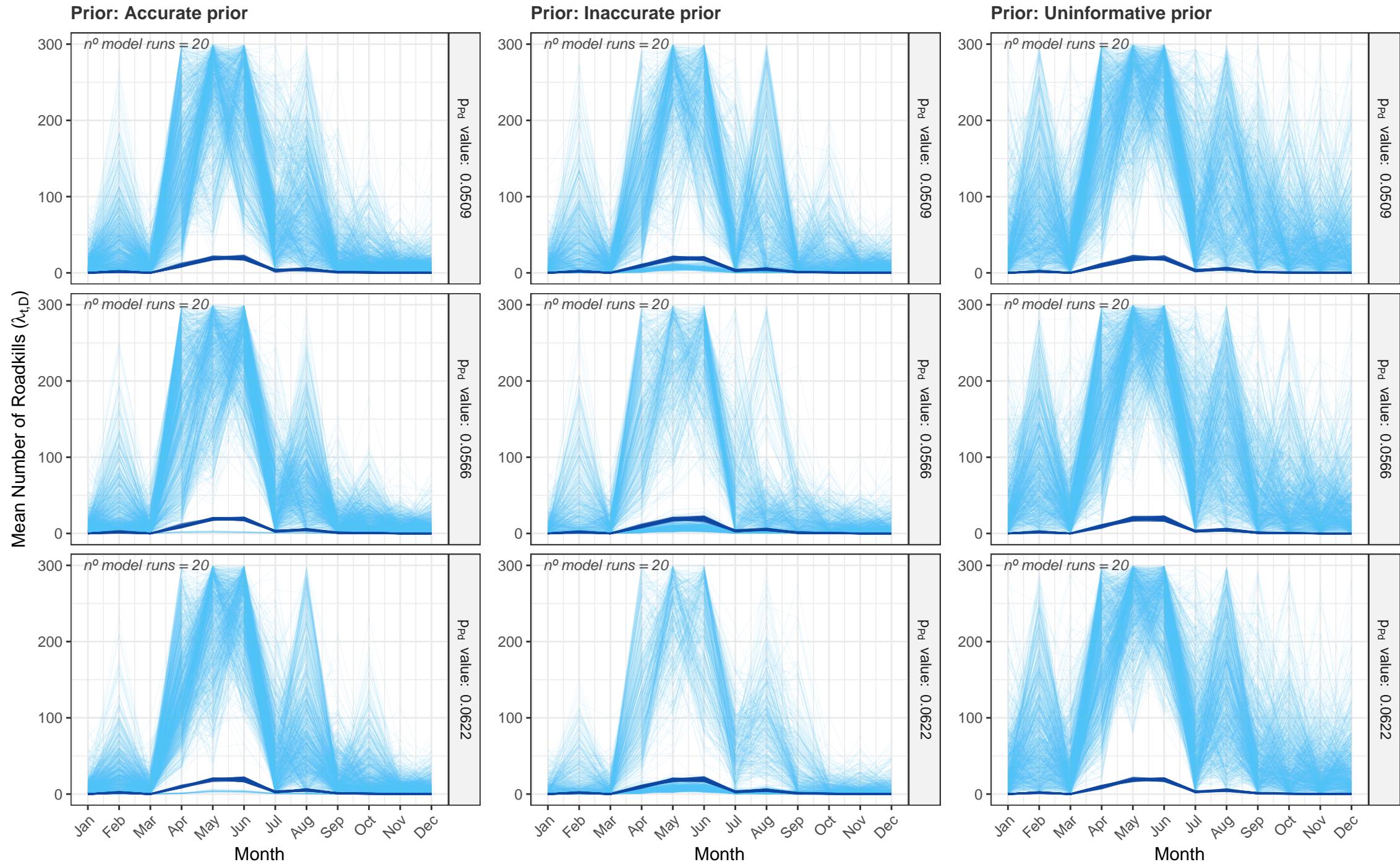
Amphibians – Scenario Matrix for Prior: Uninformative prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



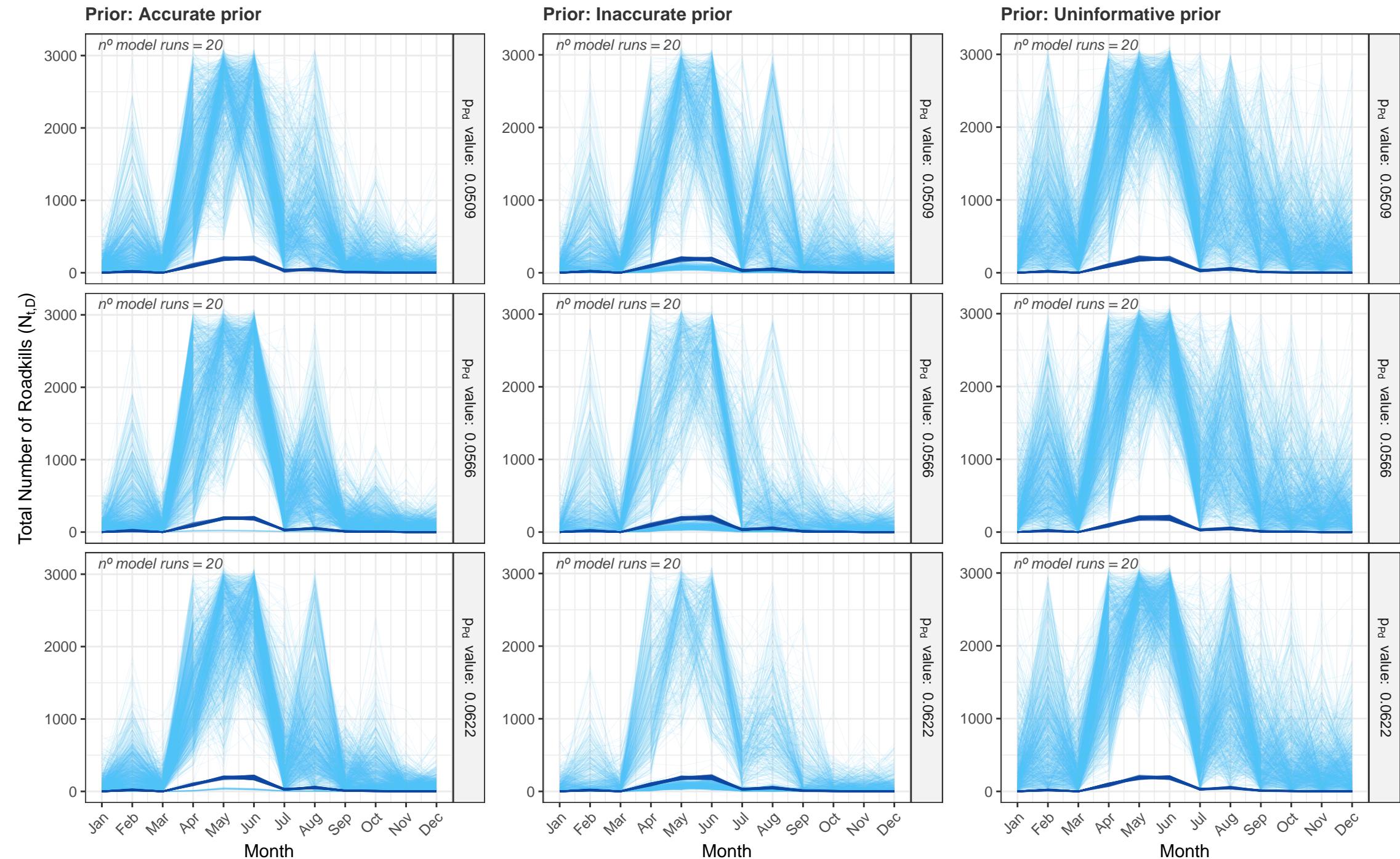
Reptiles G1: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Reptiles G1: Posterior Estimation Overlap per Simulation Scenario

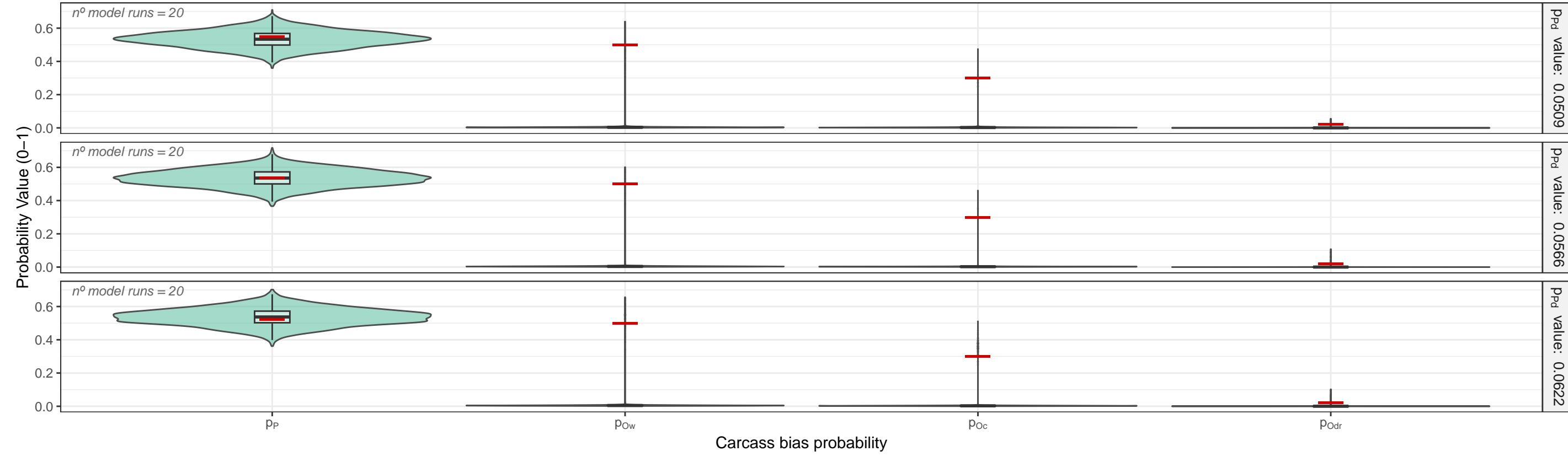
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Reptiles G1 – Complete carcass bias probabilities recovery across simulation scenarios

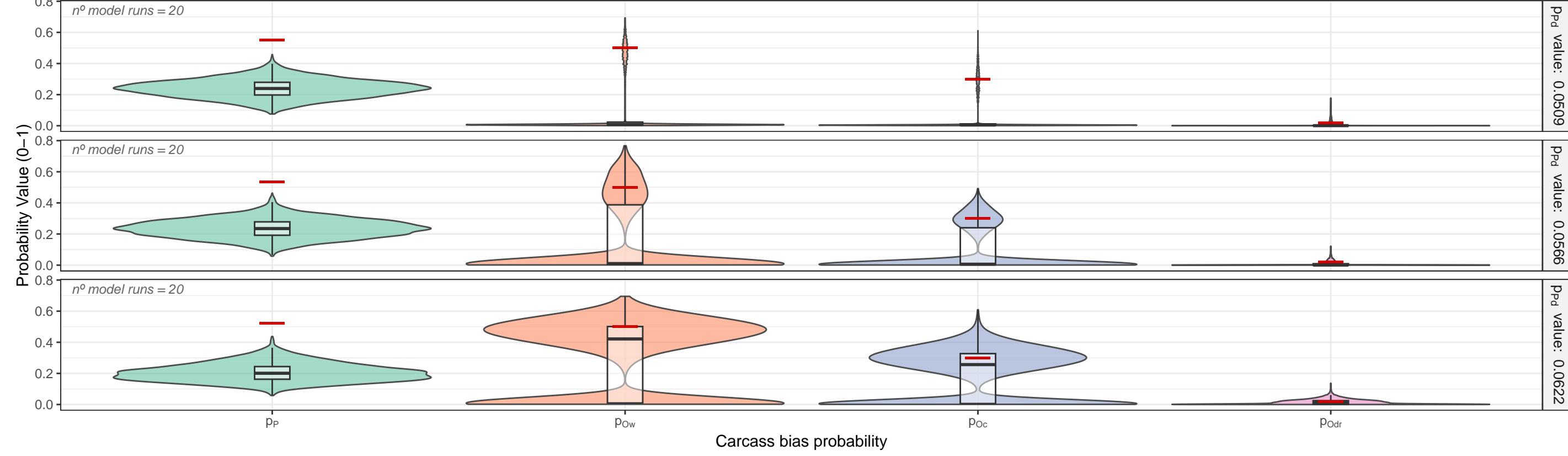
Reptiles G1 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



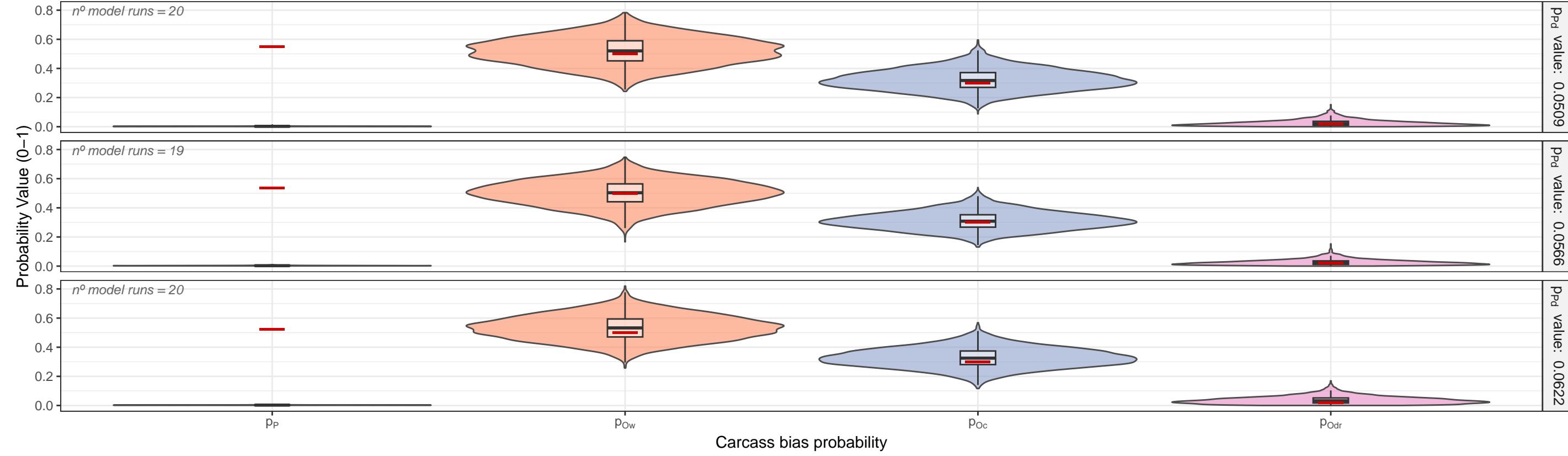
Reptiles G1 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Reptiles G1 – Scenario Matrix for Prior: Uninformative prior

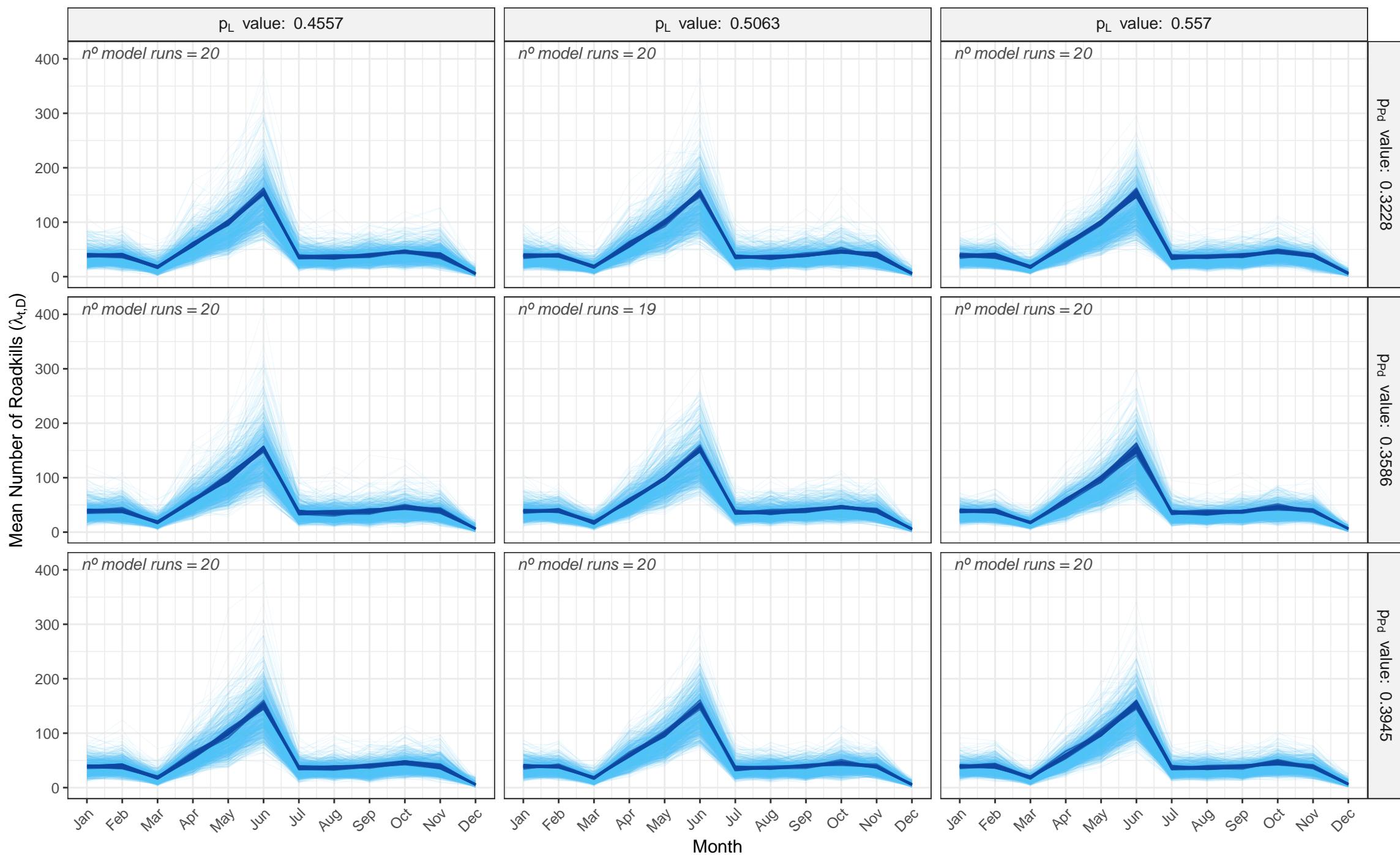
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

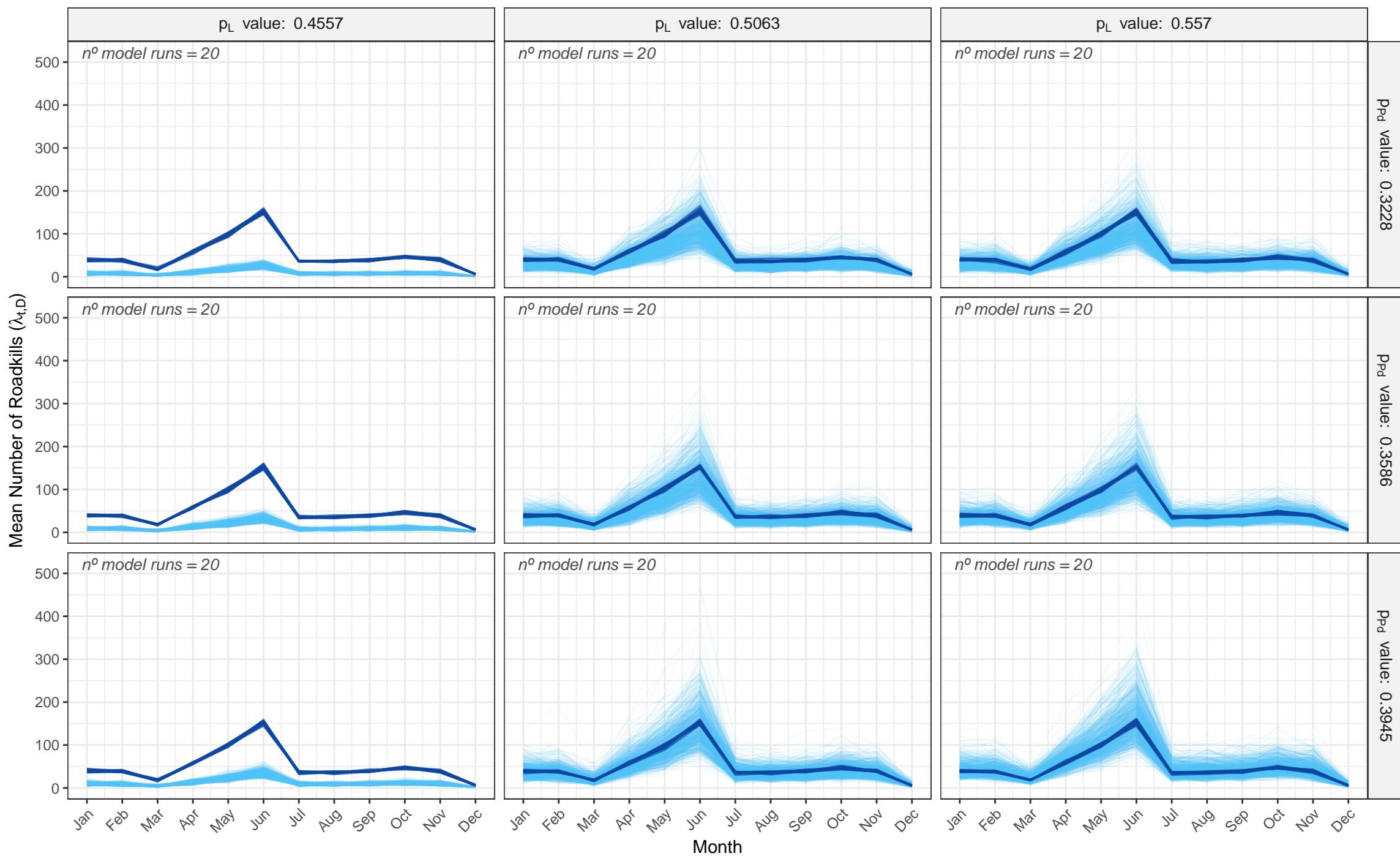
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

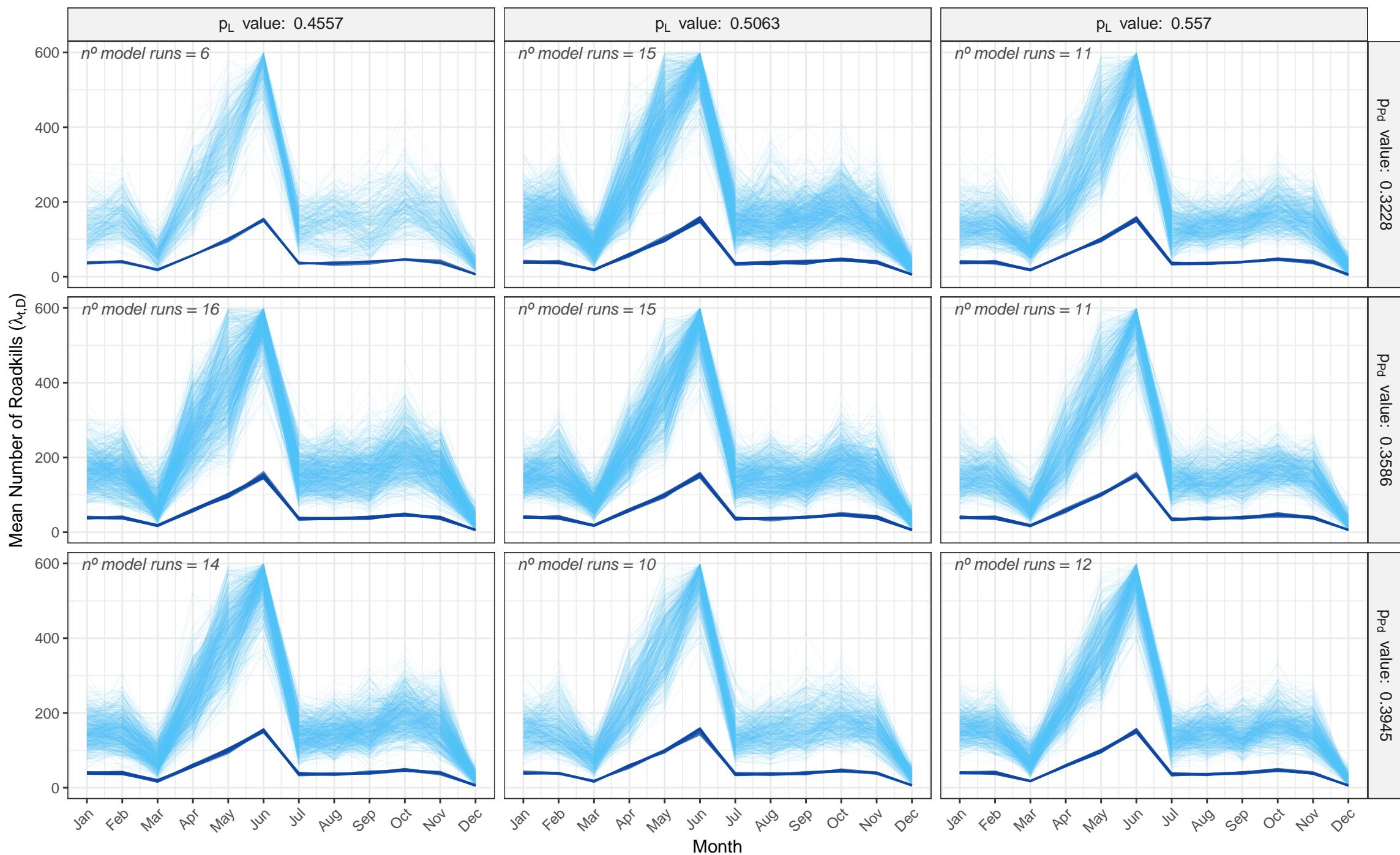
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

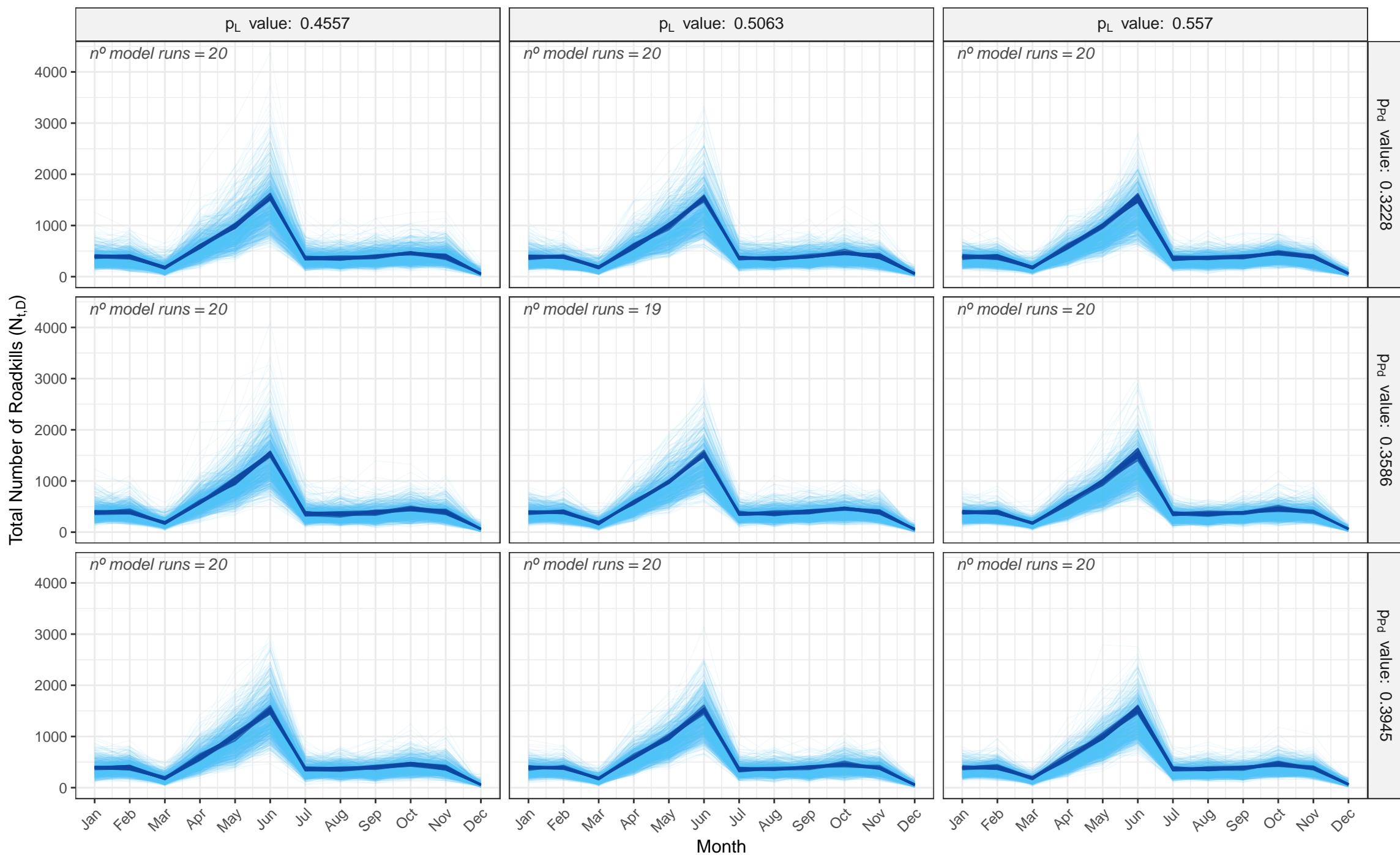
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

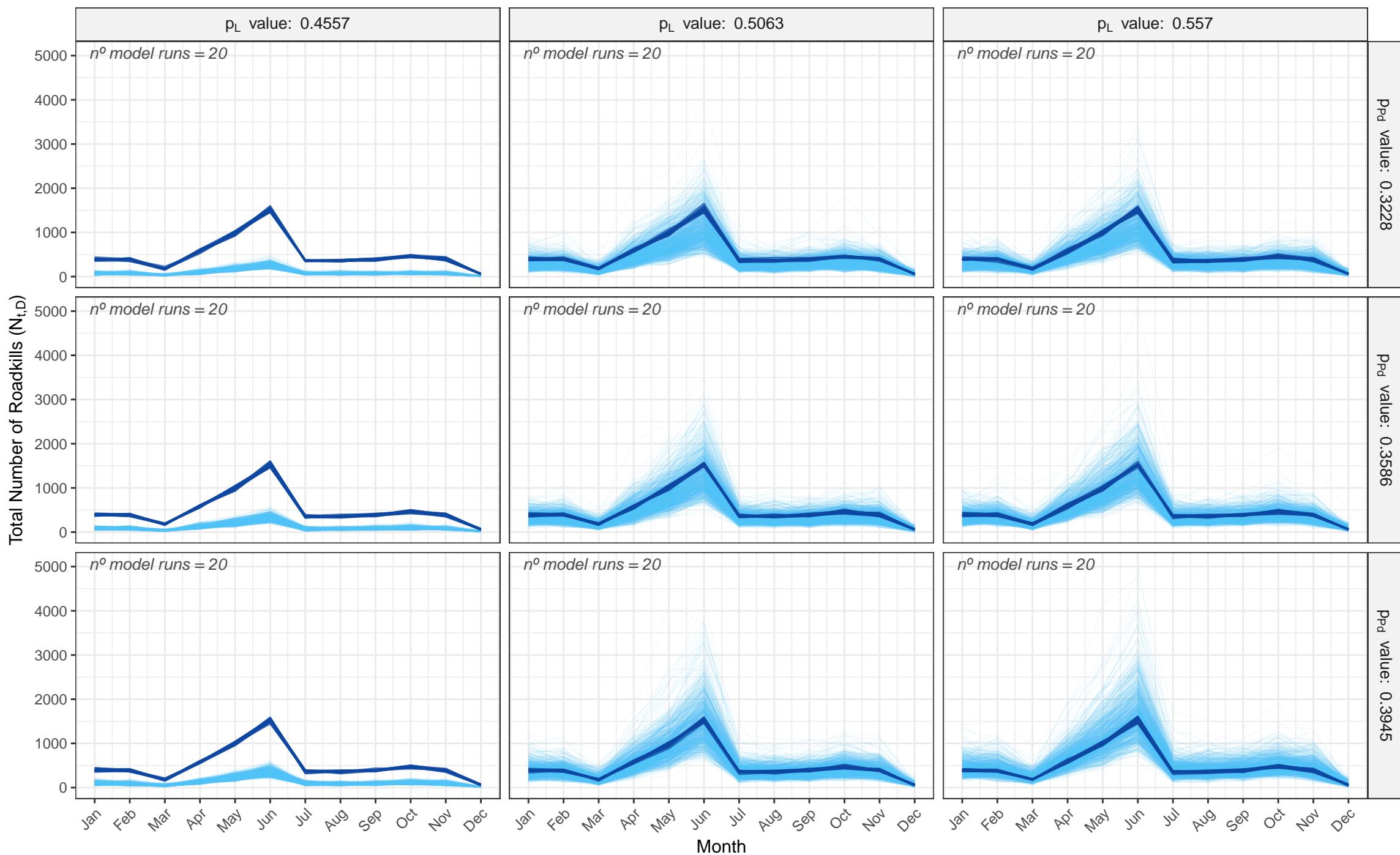
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

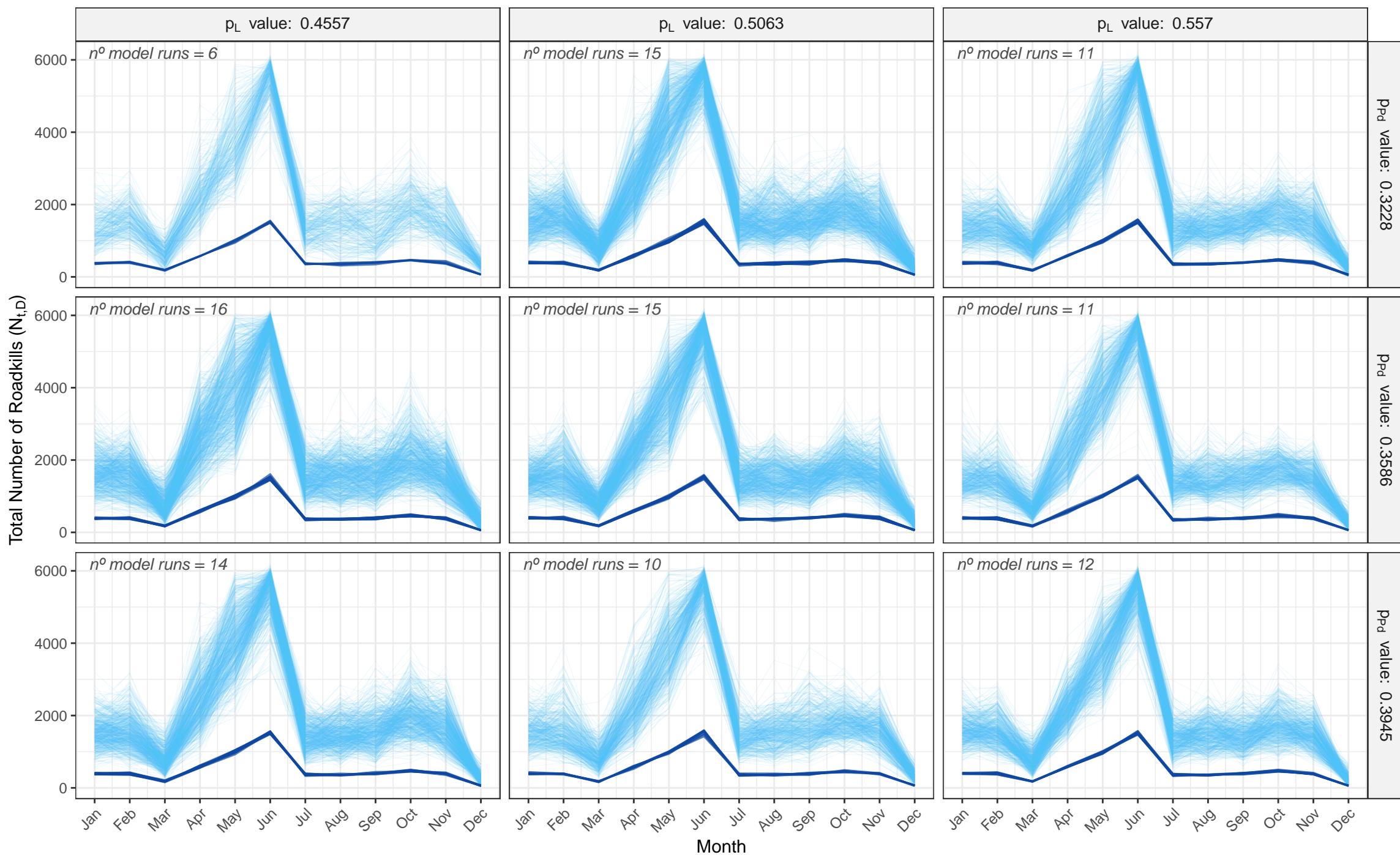
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

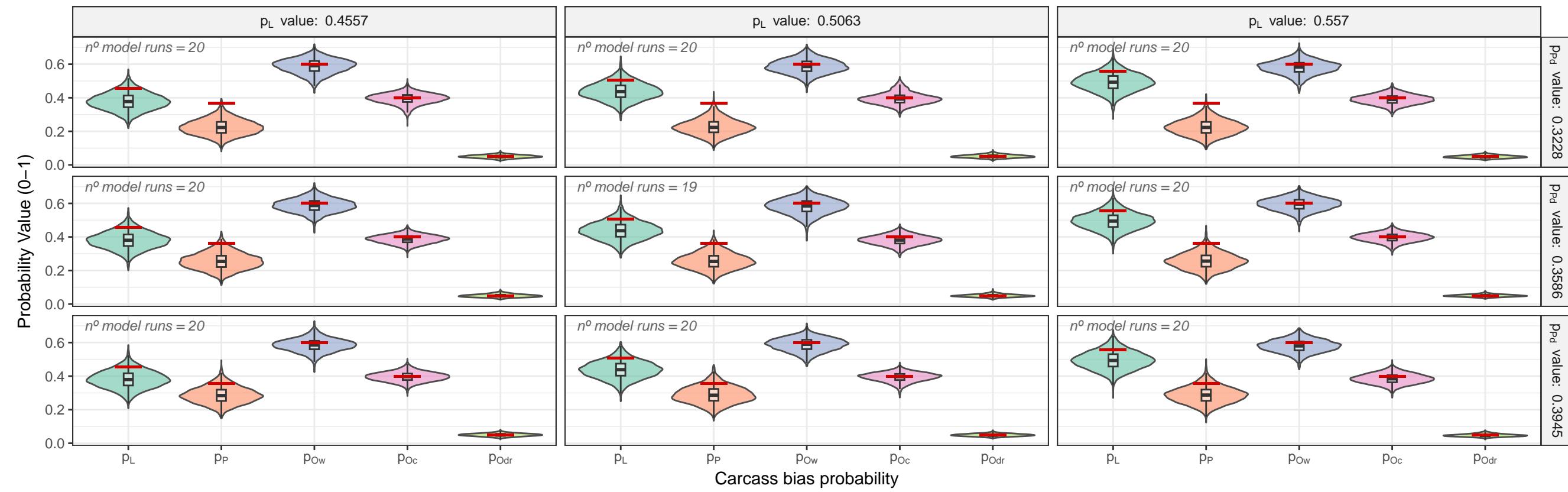
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds Bats G1 – Complete carcass bias probabilities recovery across simulation scenarios

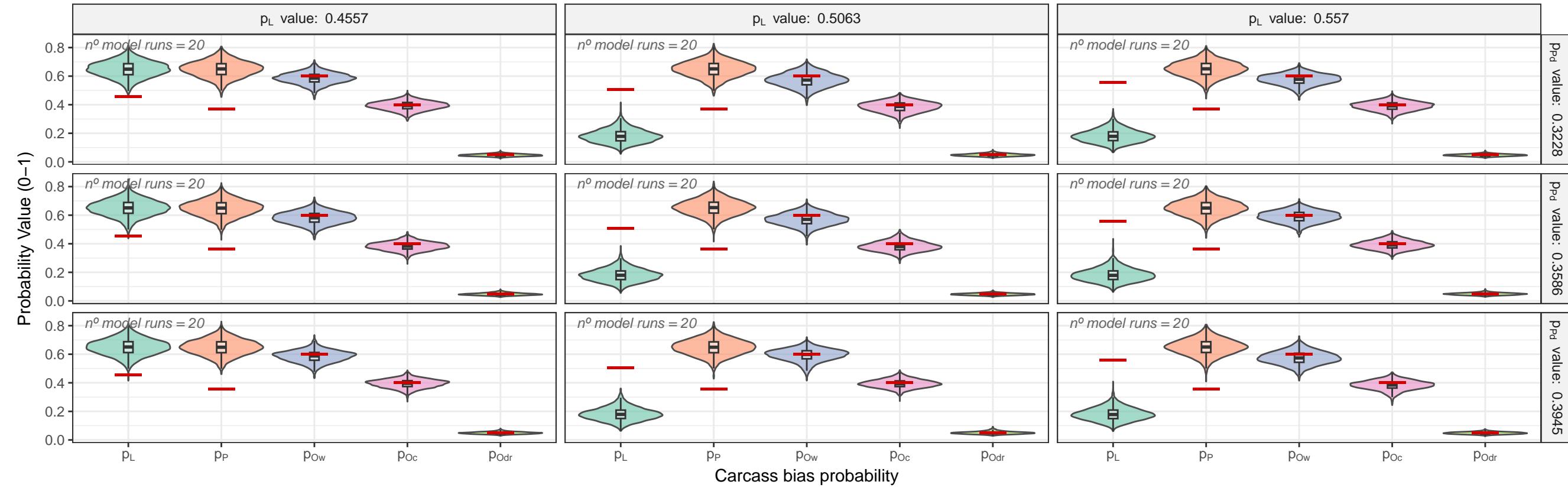
Birds Bats G1 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



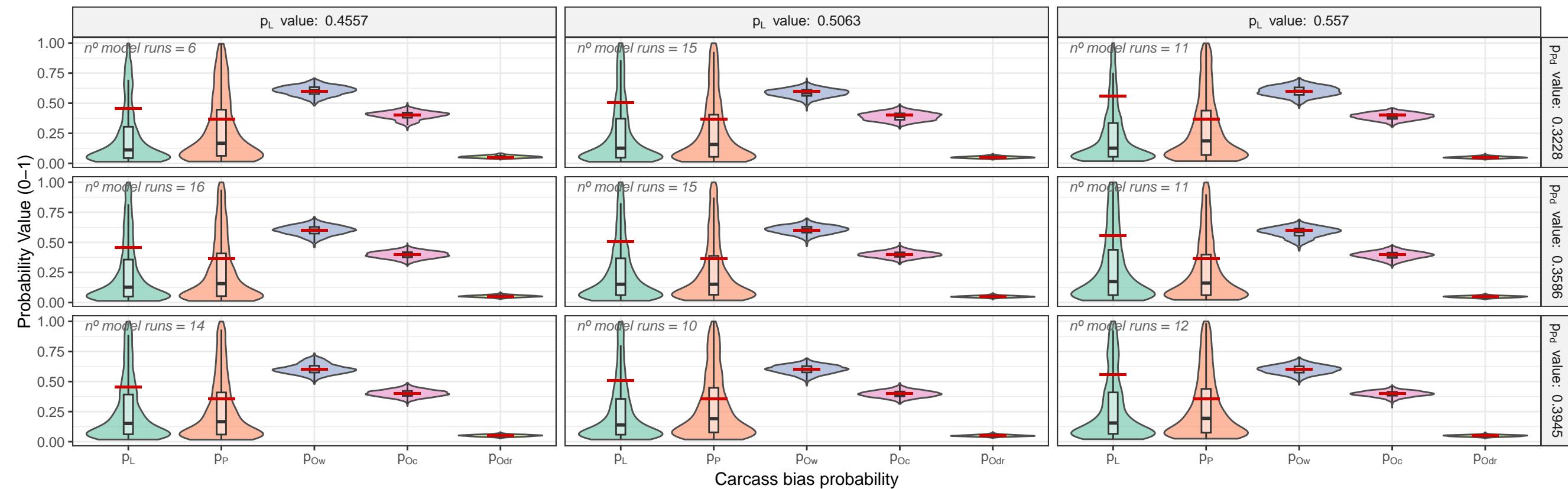
Birds Bats G1 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Birds Bats G1 – Scenario Matrix for Prior: Uninformative prior

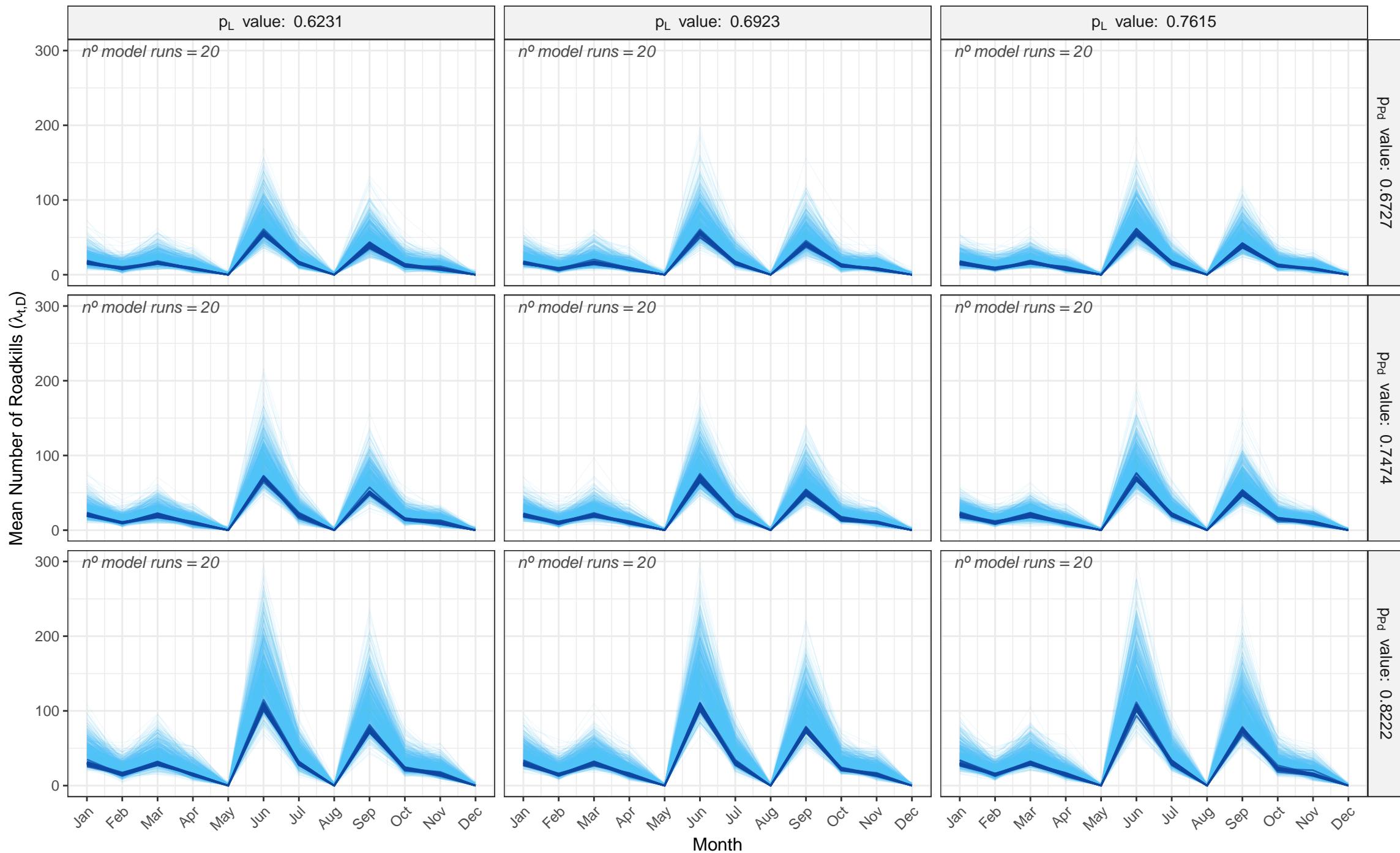
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

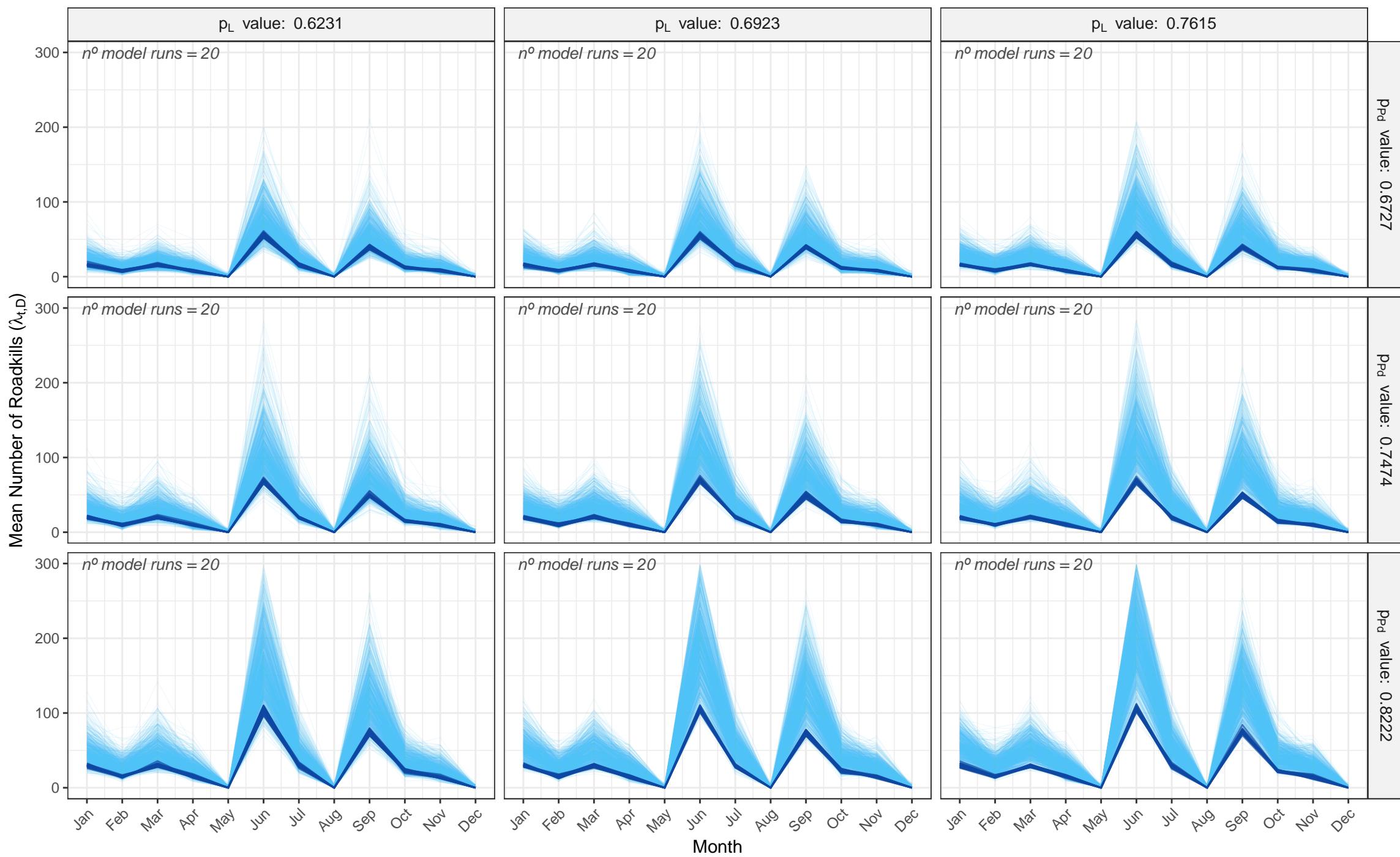
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

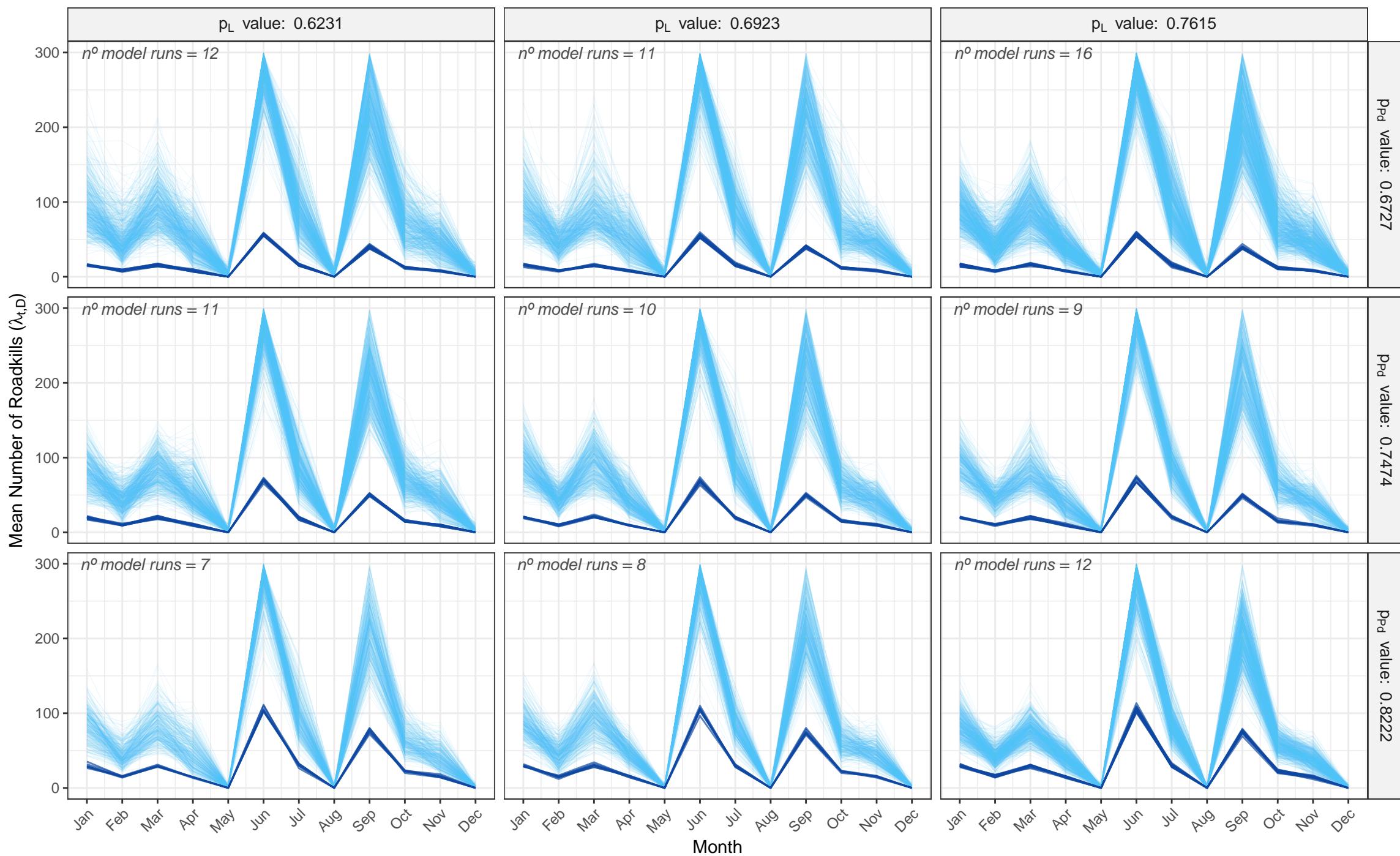
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

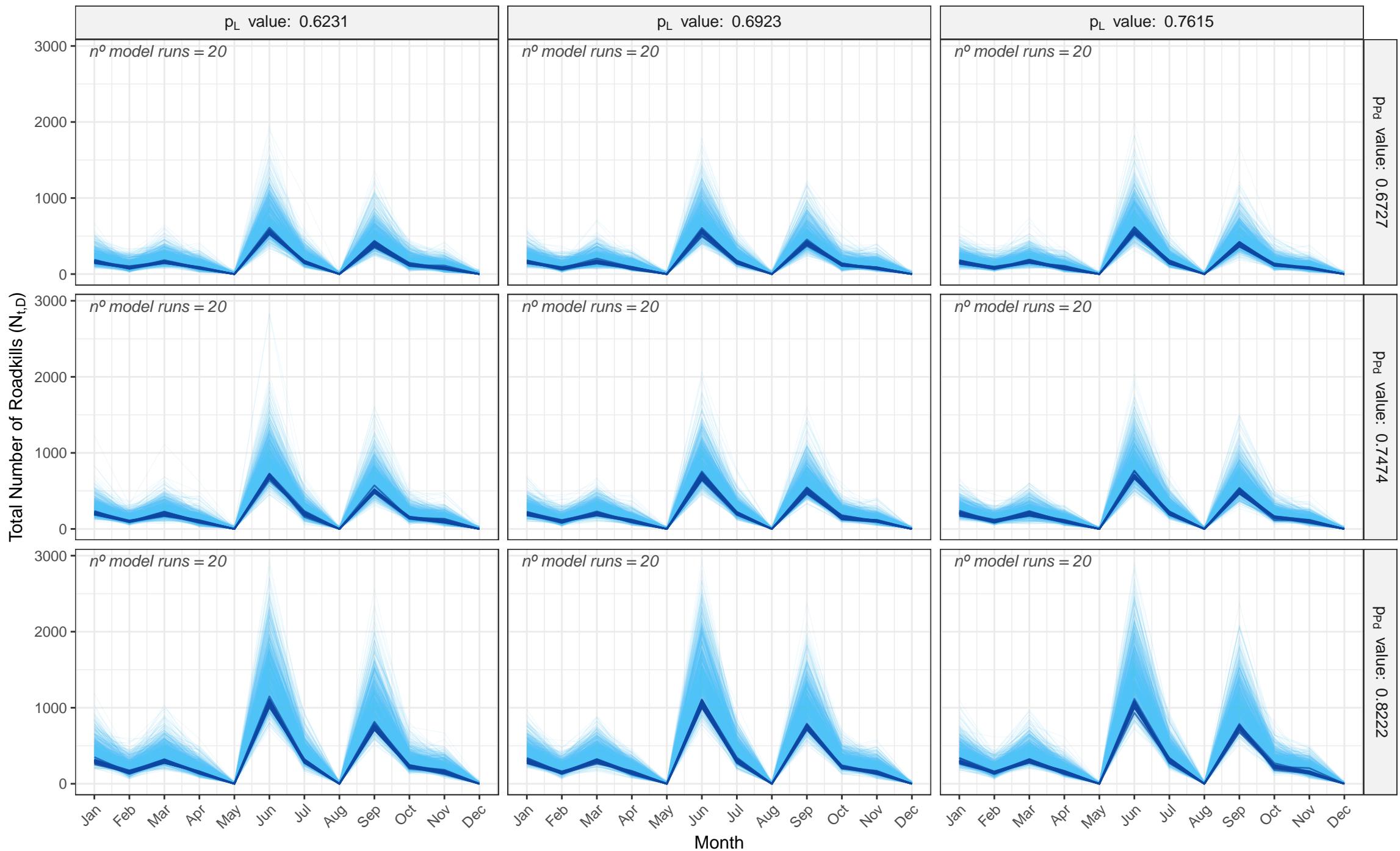
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

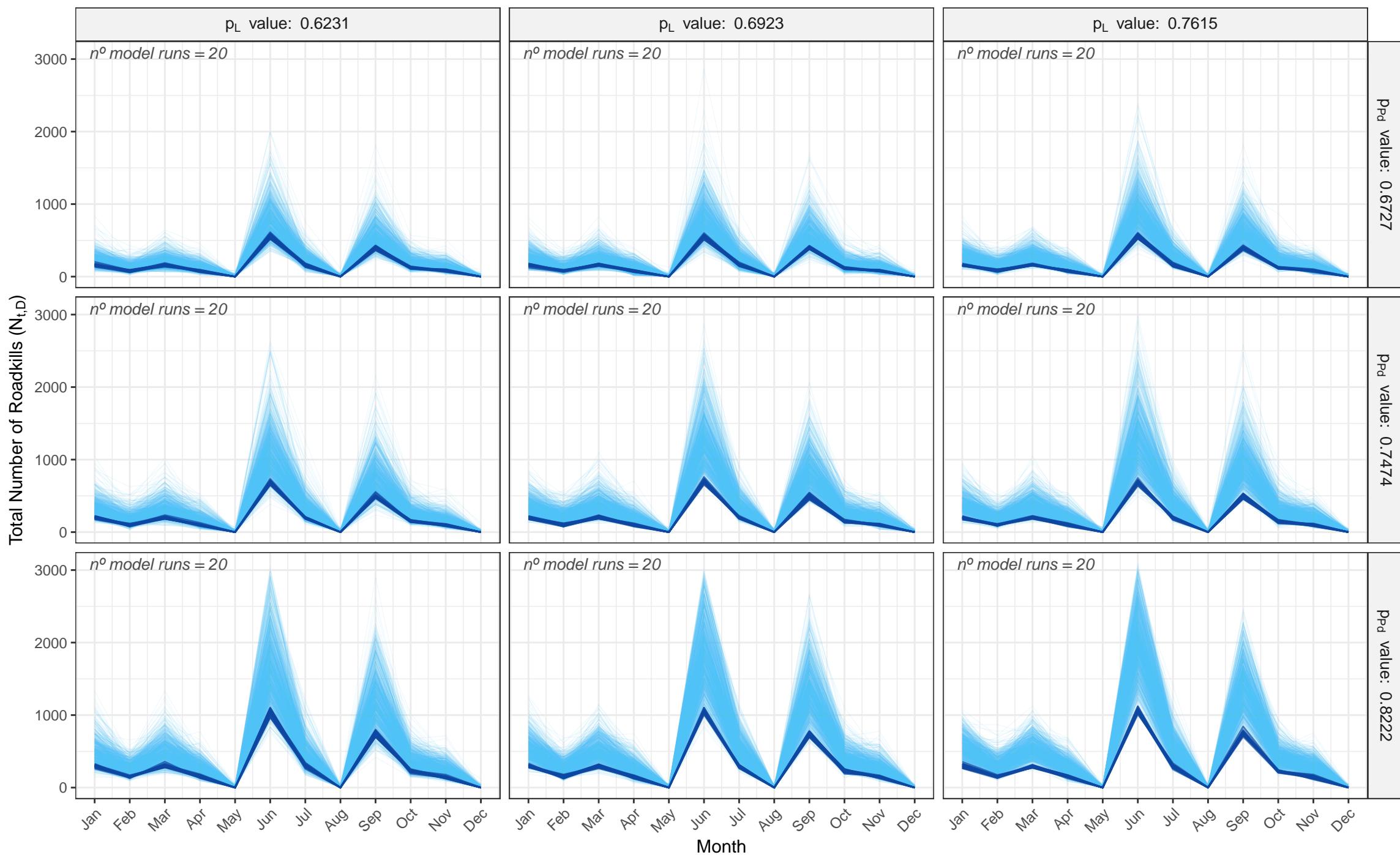
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

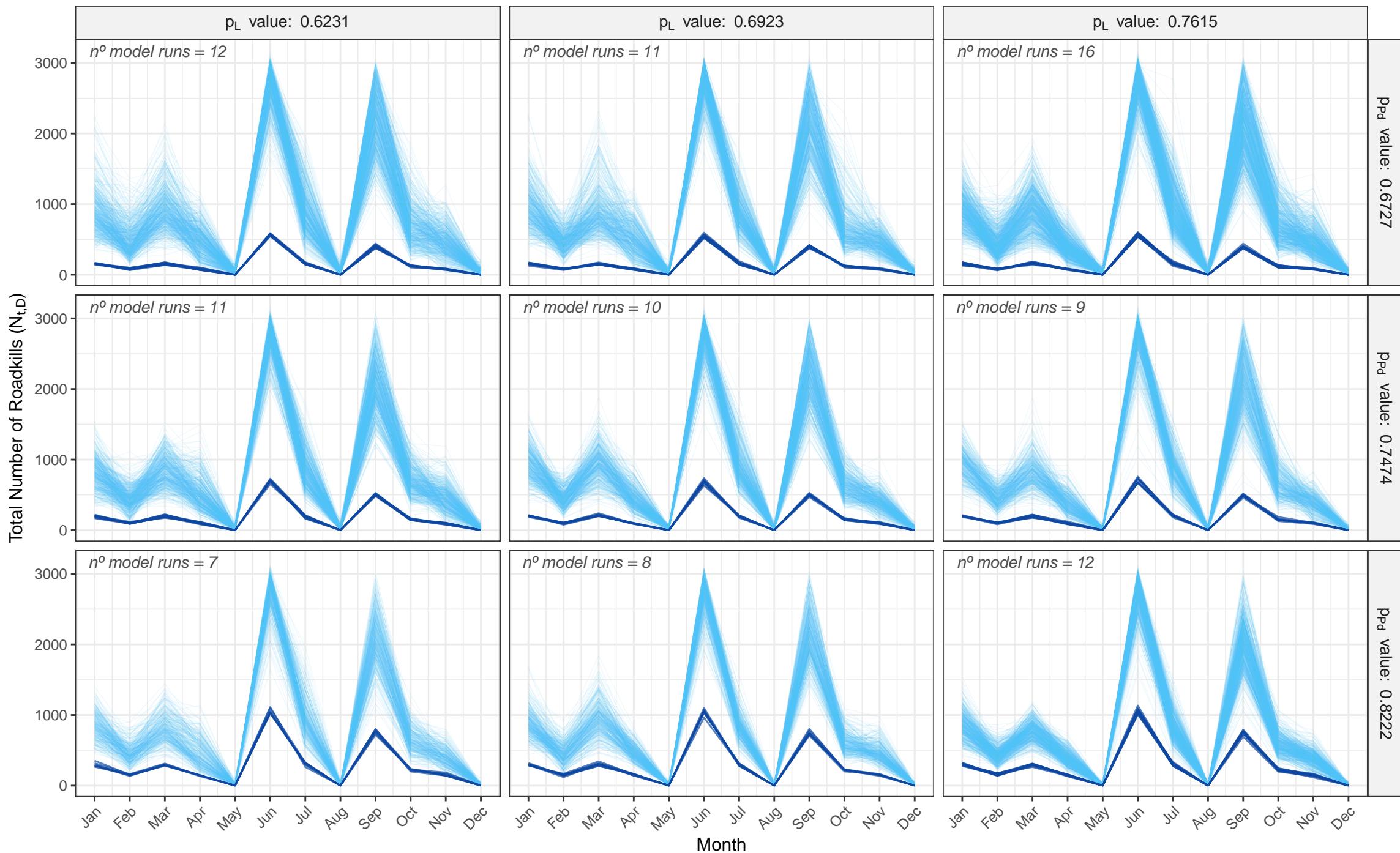
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

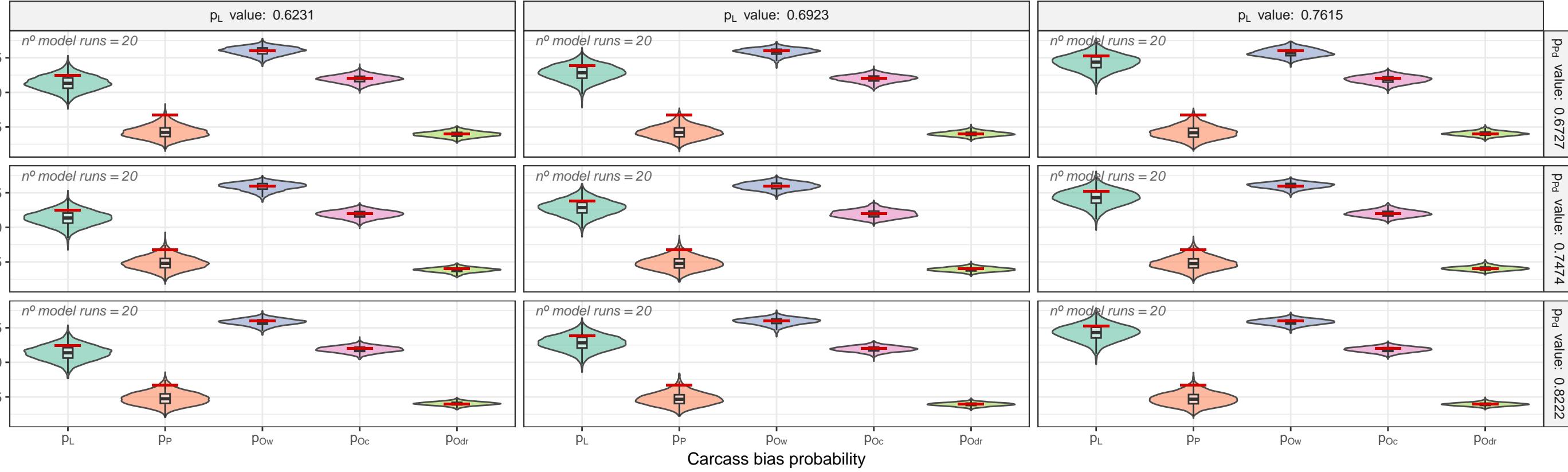
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Birds G2 – Complete carcass bias probabilities recovery across simulation scenarios

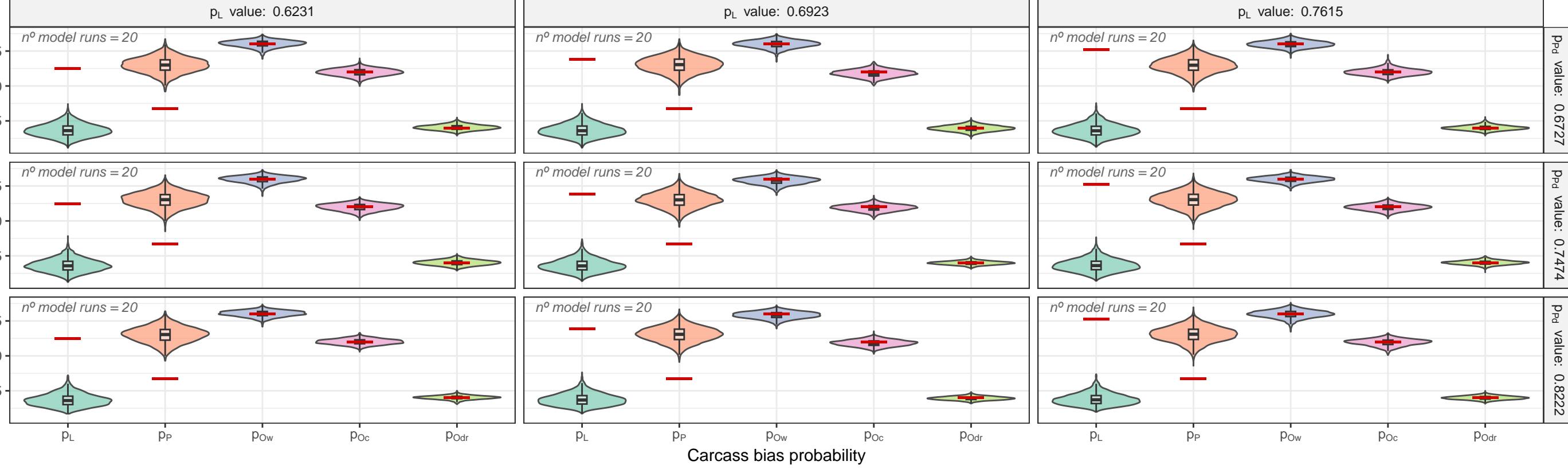
Birds G2 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



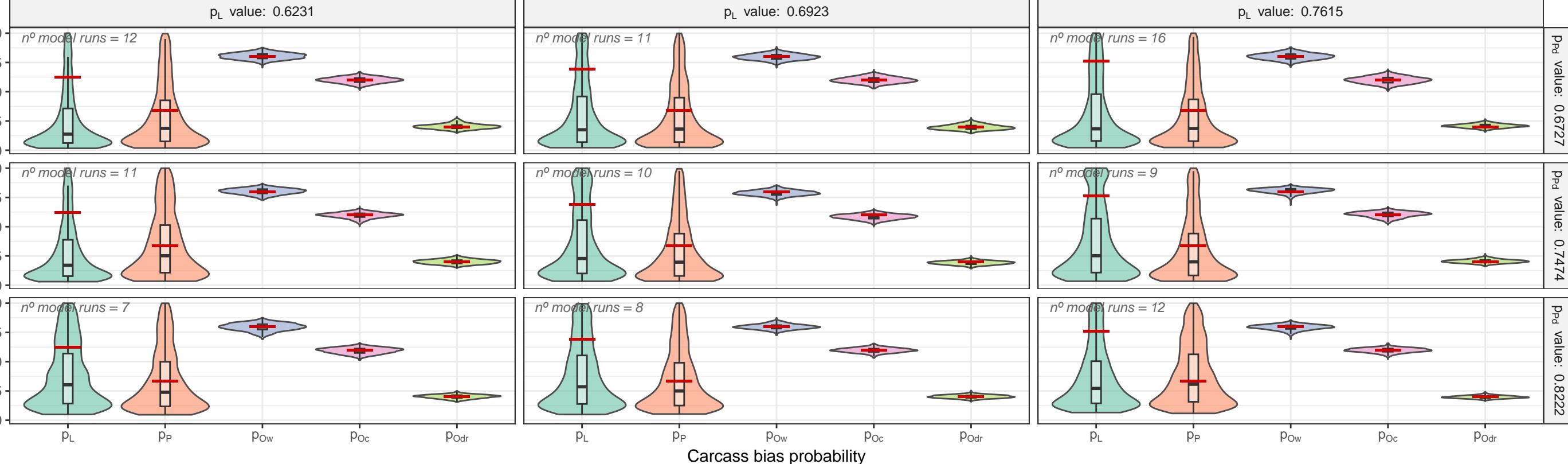
Birds G2 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Birds G2 – Scenario Matrix for Prior: Uninformative prior

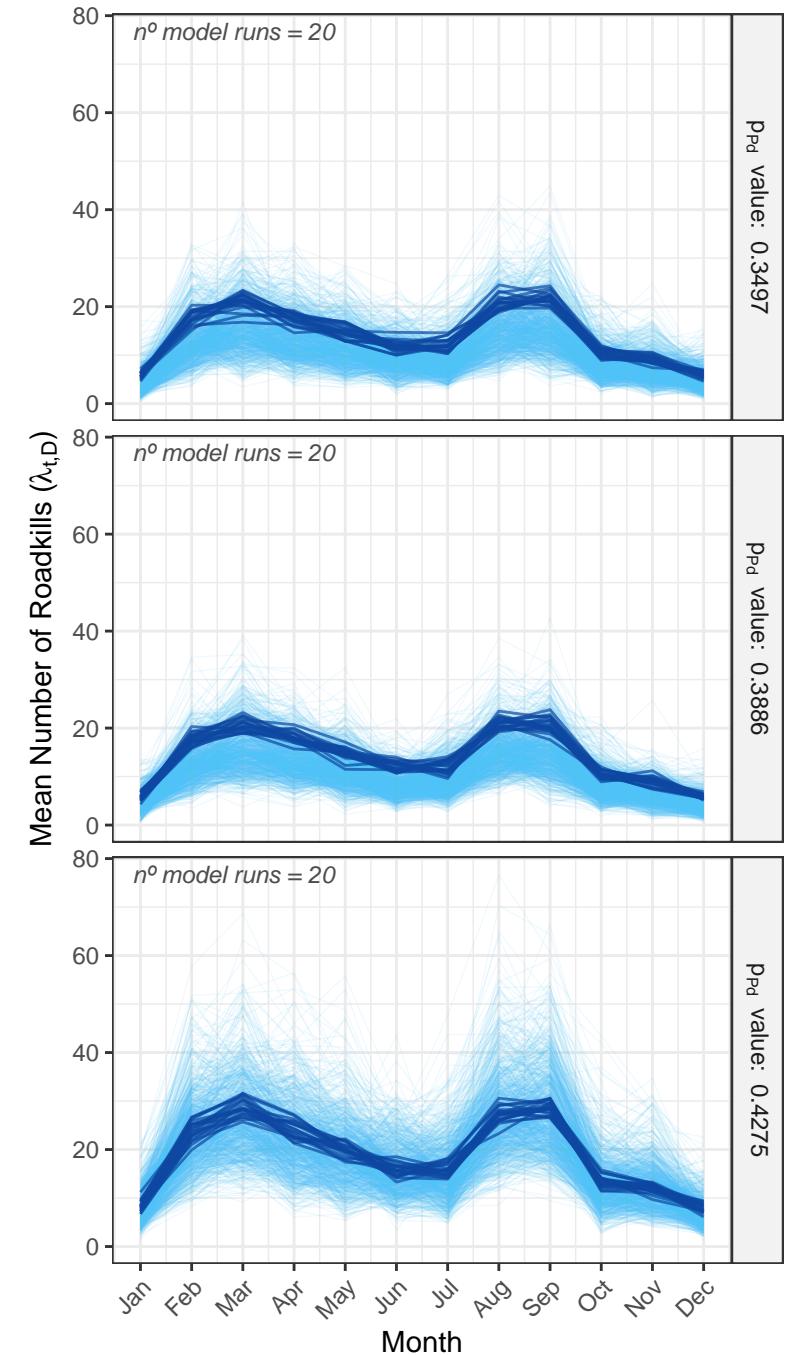
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



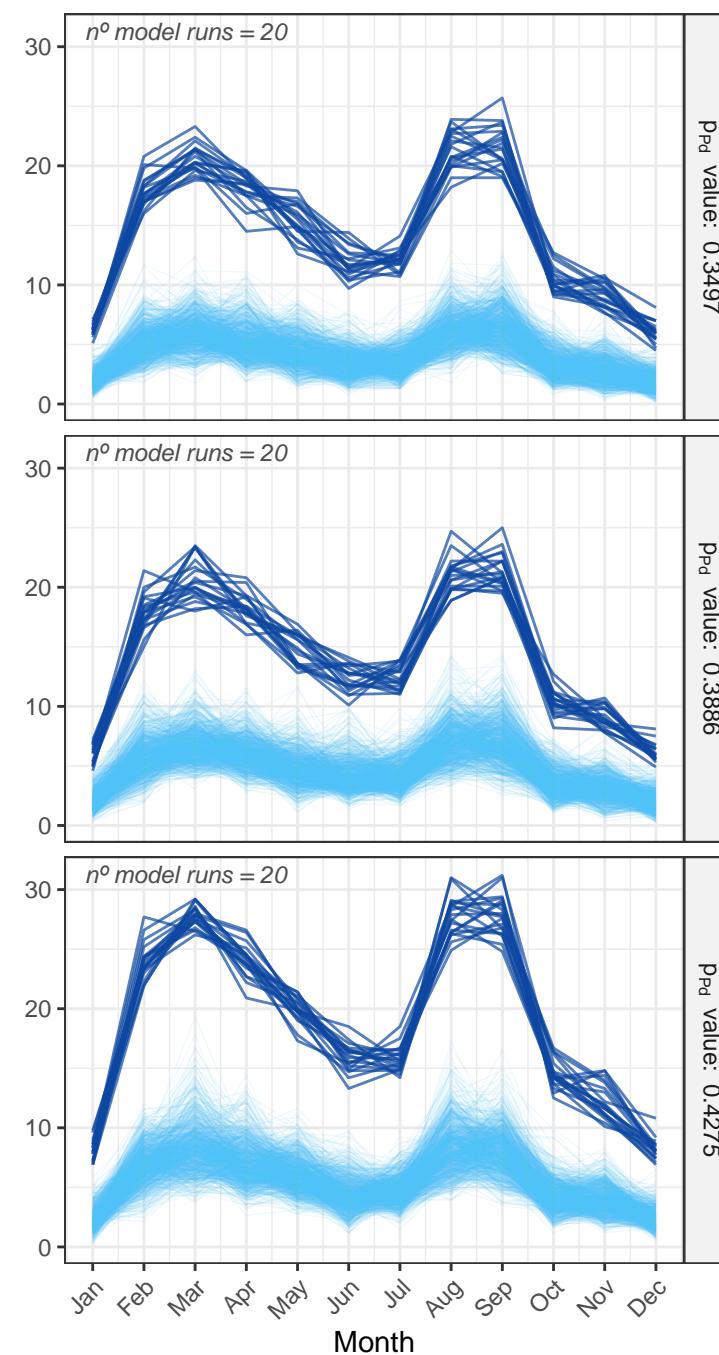
Mammals G1: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

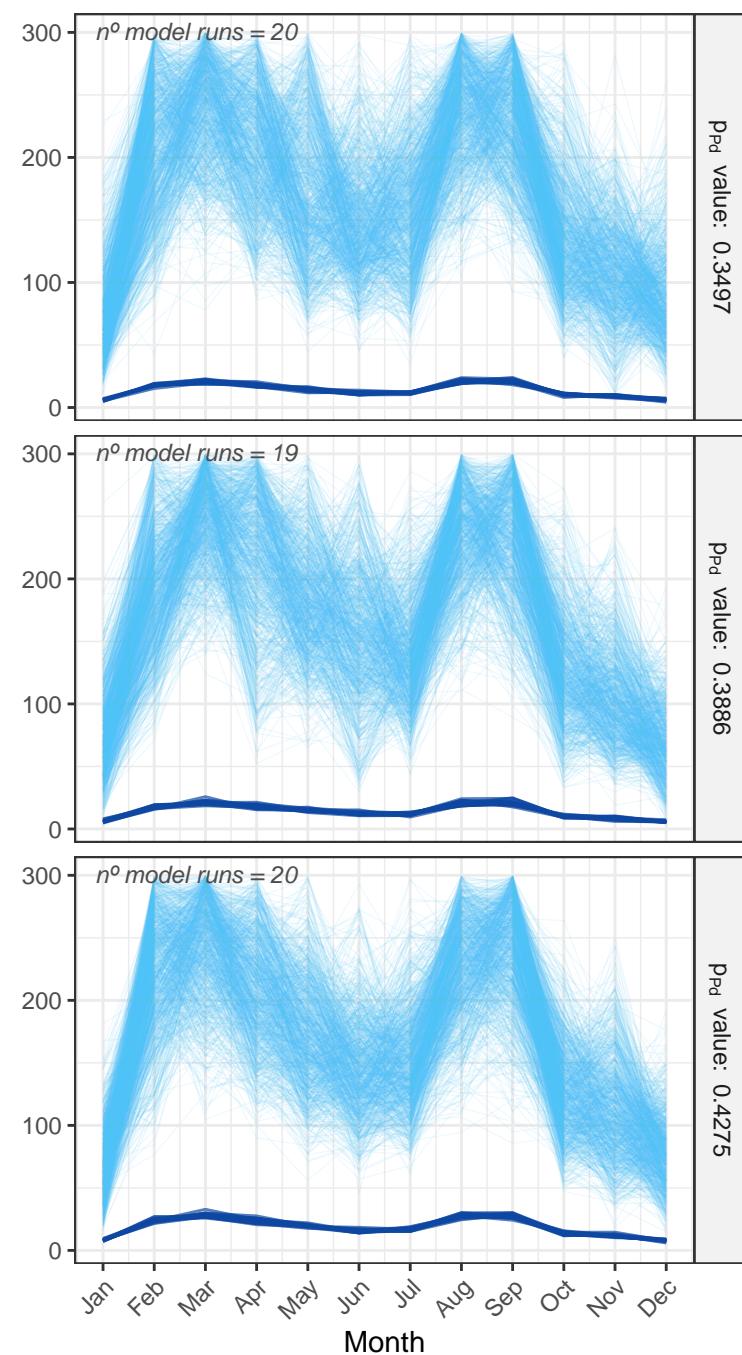
Prior: Accurate prior



Prior: Inaccurate prior



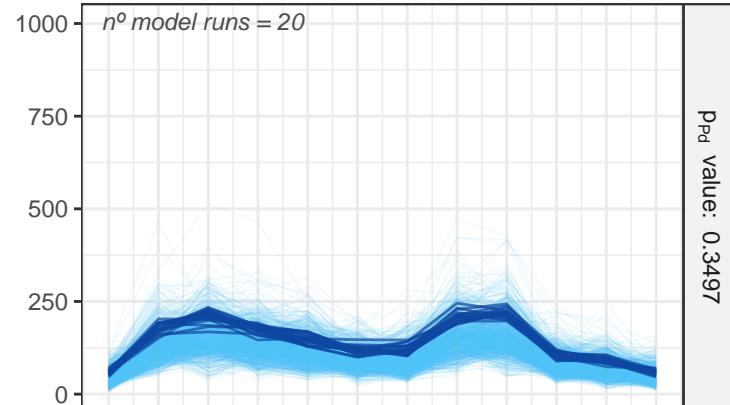
Prior: Uninformative prior



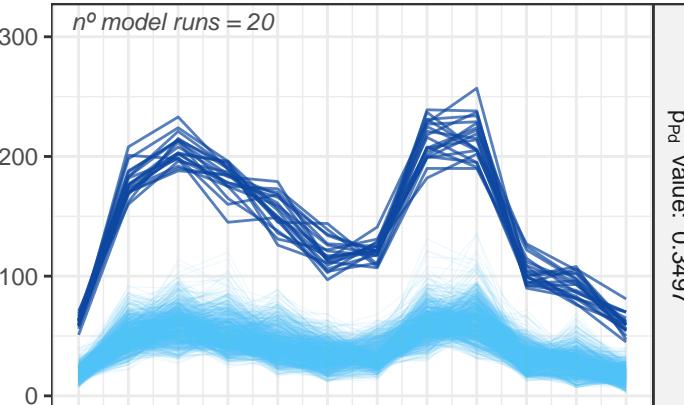
Mammals G1: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

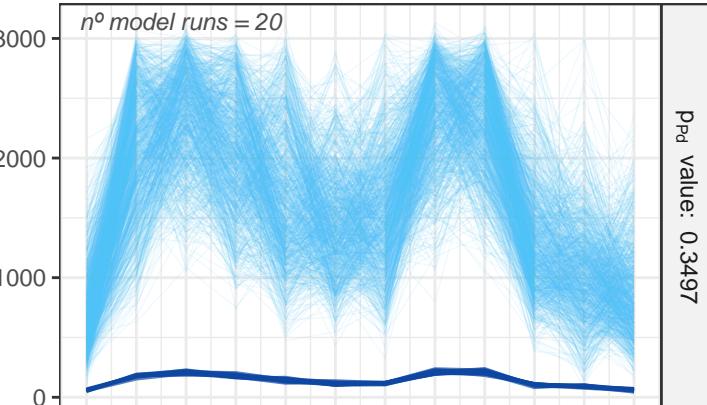
Prior: Accurate prior



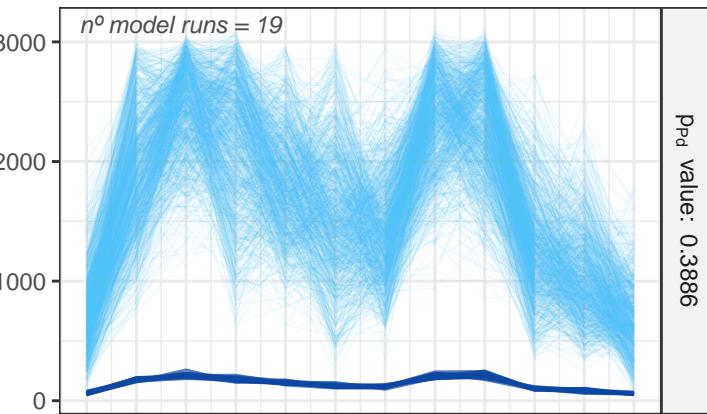
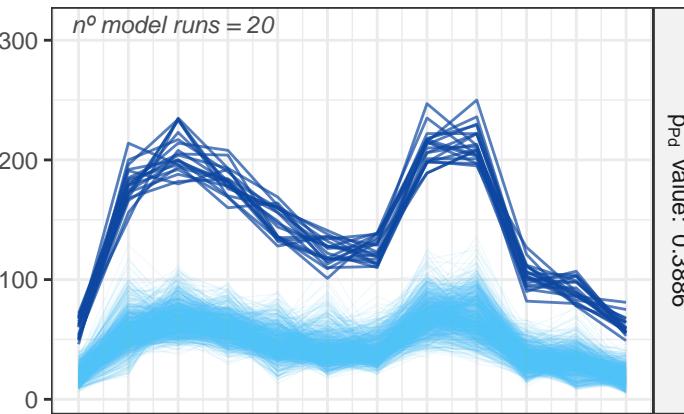
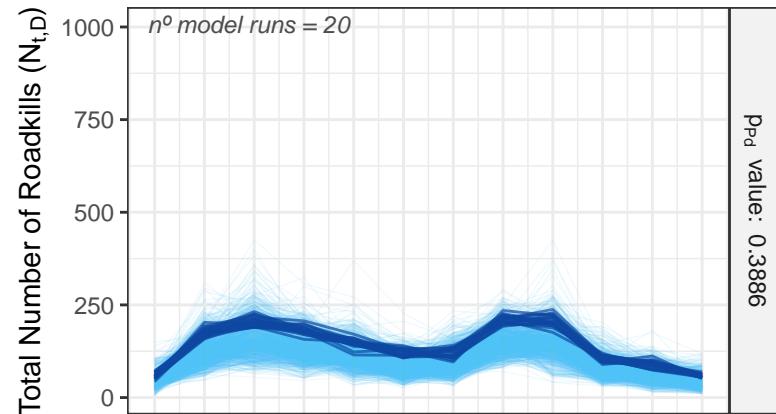
Prior: Inaccurate prior



Prior: Uninformative prior



Total Number of Roadkills ($N_{t,D}$)



n^o model runs = 20

p_{pd} value: 0.4275

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Month

n^o model runs = 20

p_{pd} value: 0.4275

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Month

n^o model runs = 20

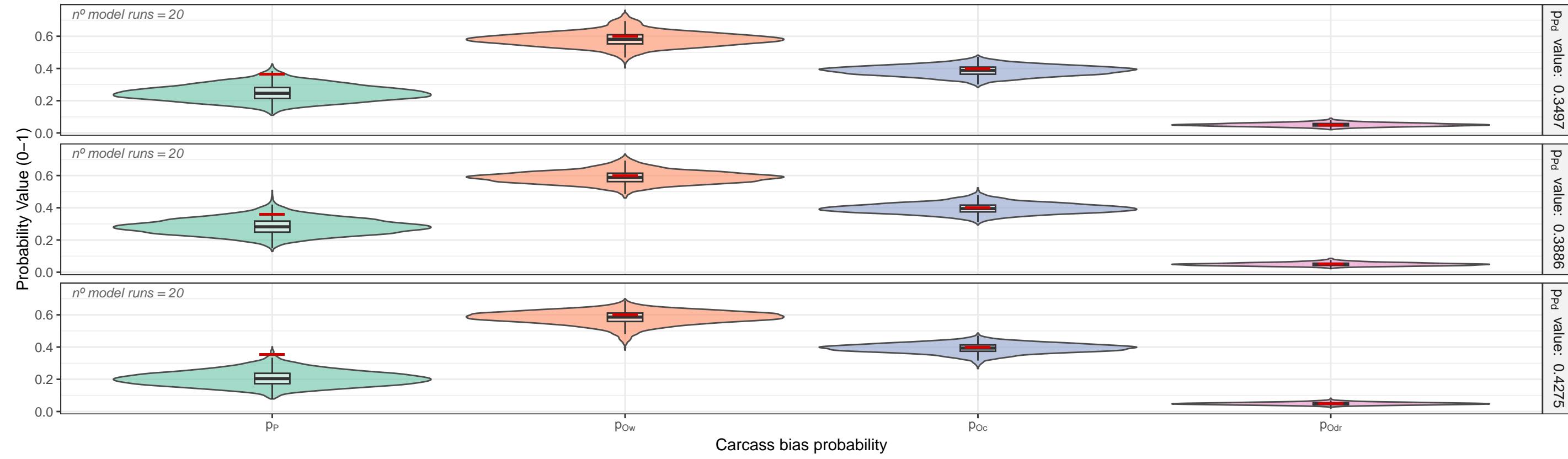
p_{pd} value: 0.4275

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Month

Mammals G1 – Complete carcass bias probabilities recovery across simulation scenarios

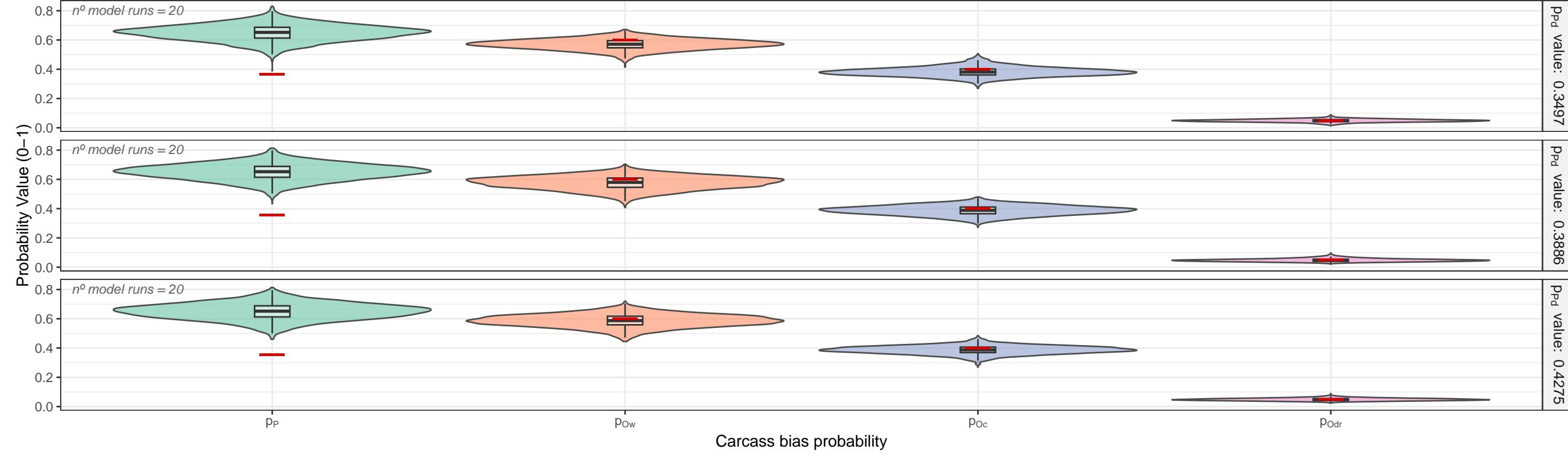
Mammals G1 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



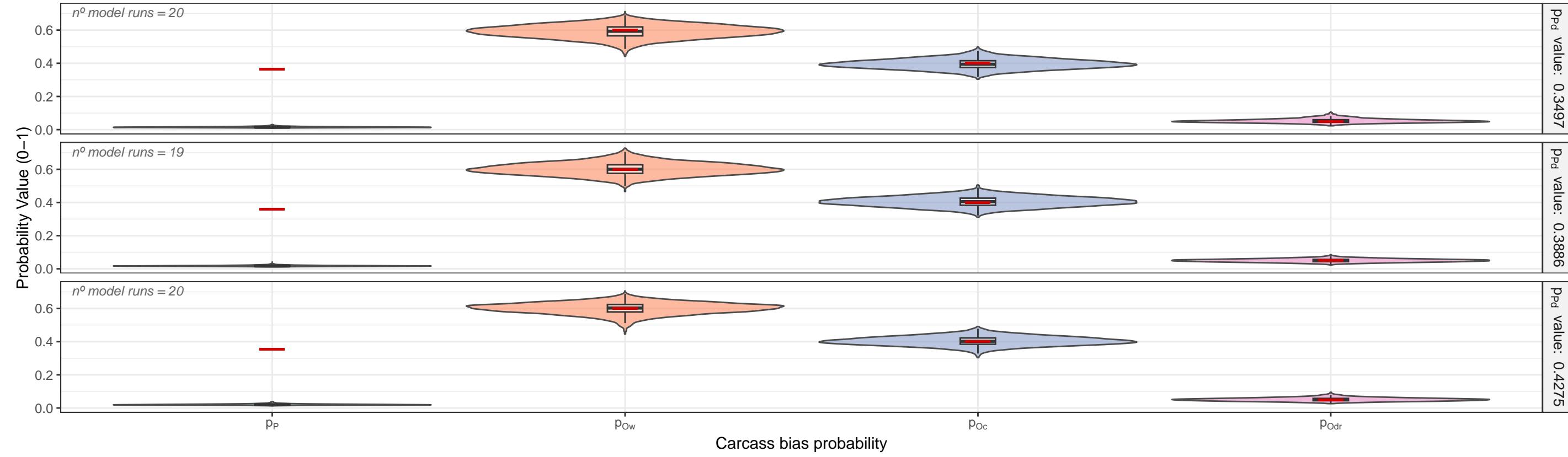
Mammals G1 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Mammals G1 – Scenario Matrix for Prior: Uninformative prior

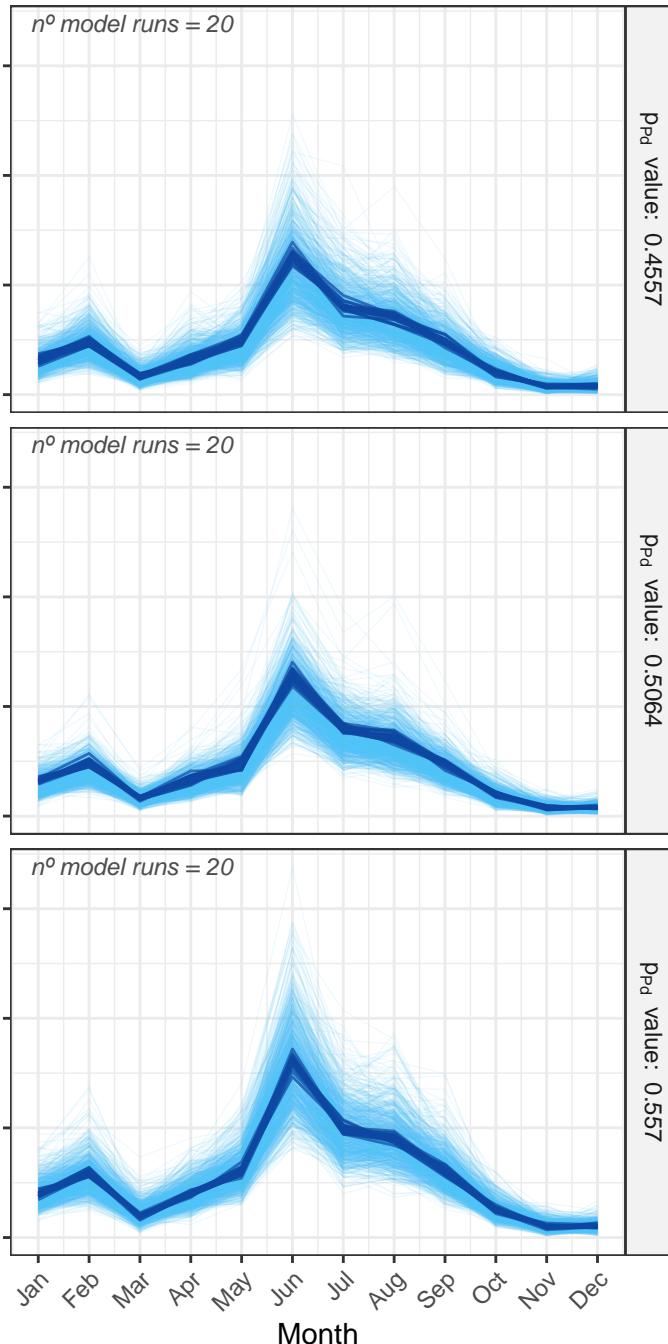
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



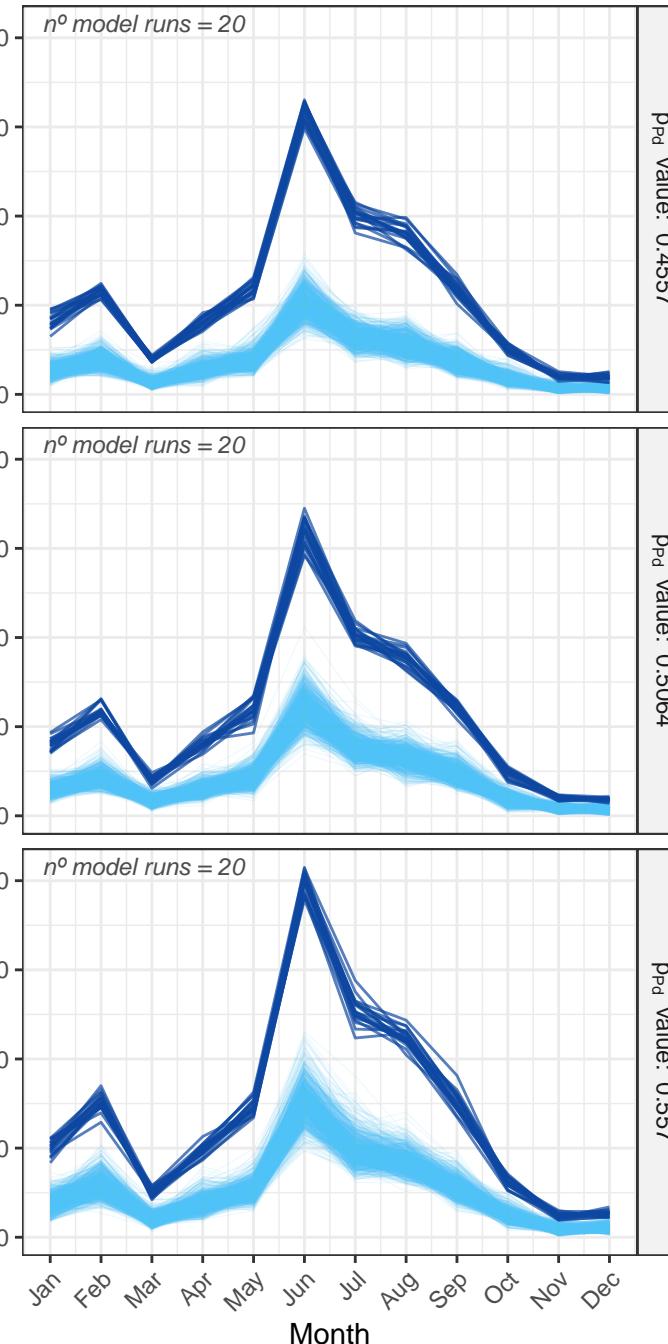
Mammals G2: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

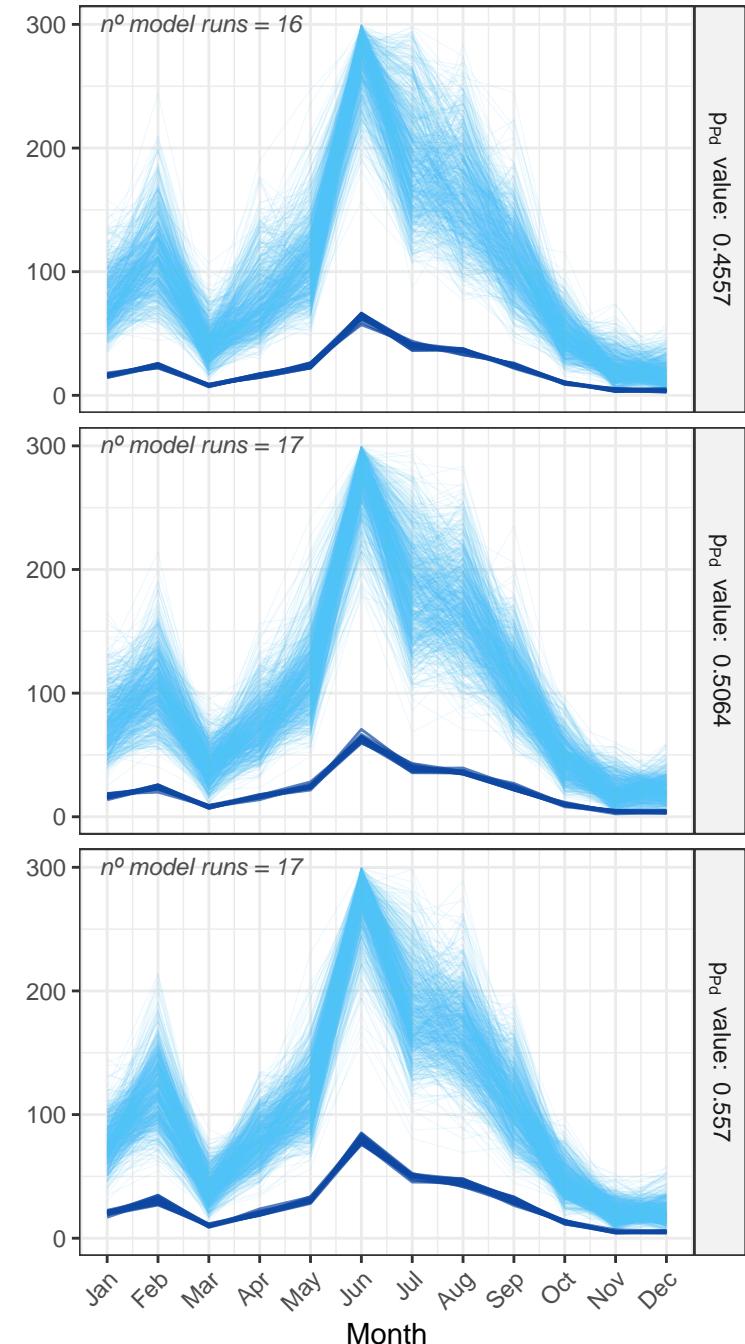
Prior: Accurate prior



Prior: Inaccurate prior



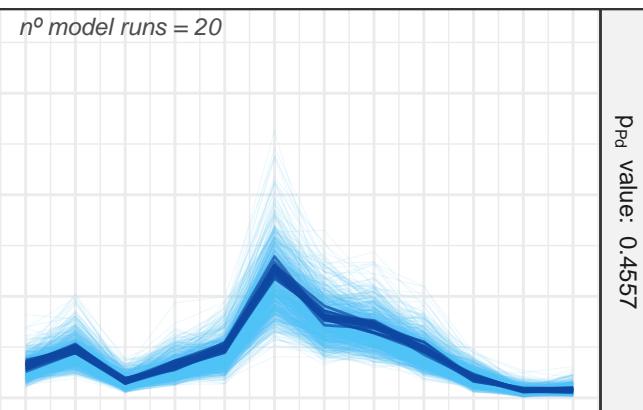
Prior: Uninformative prior



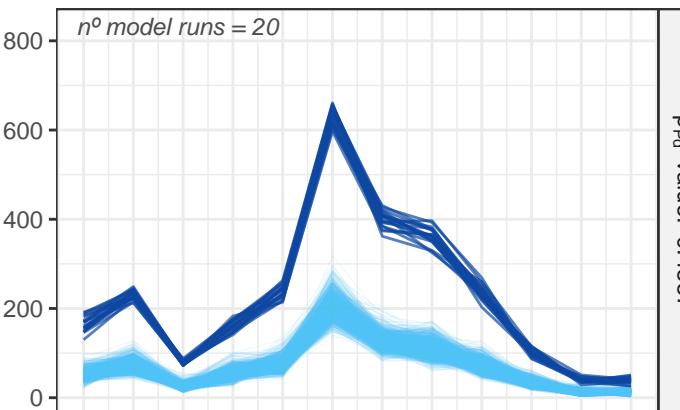
Mammals G2: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

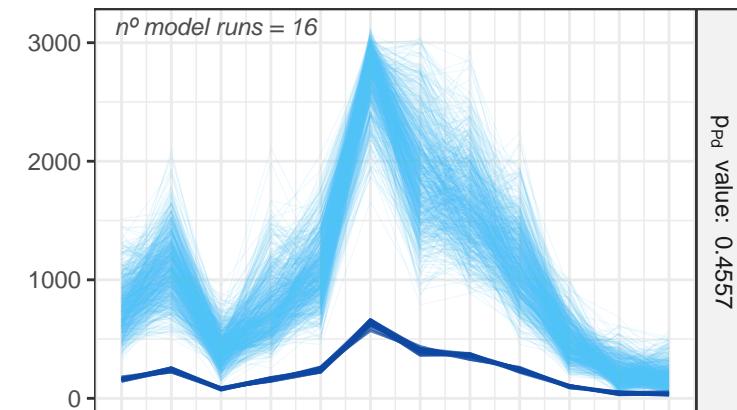
Prior: Accurate prior



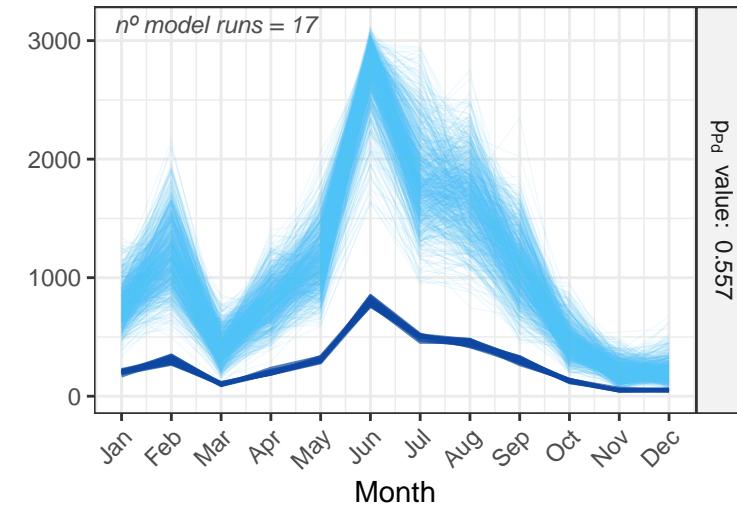
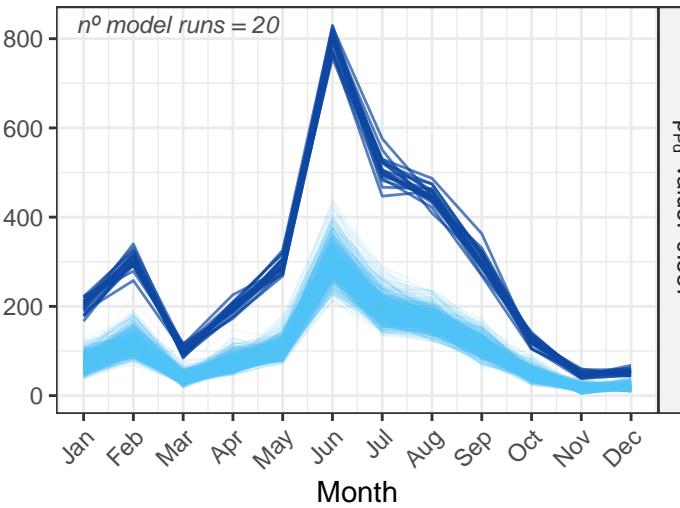
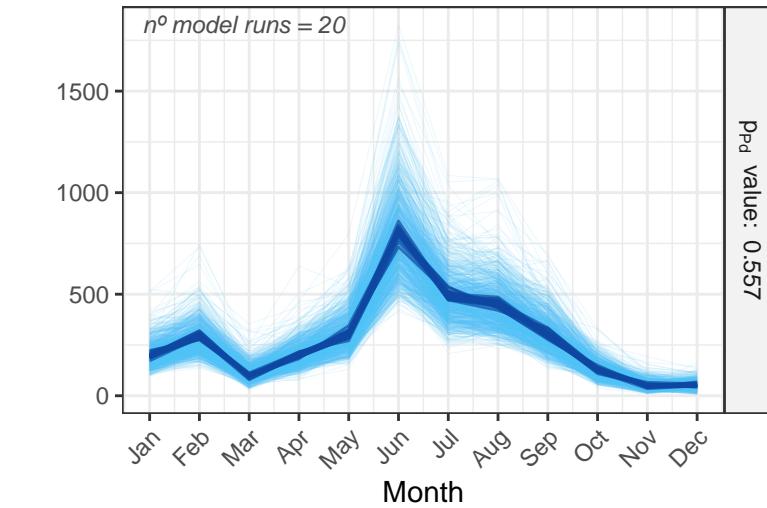
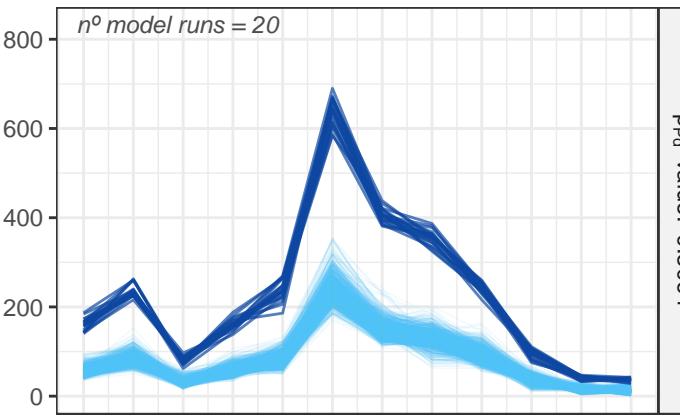
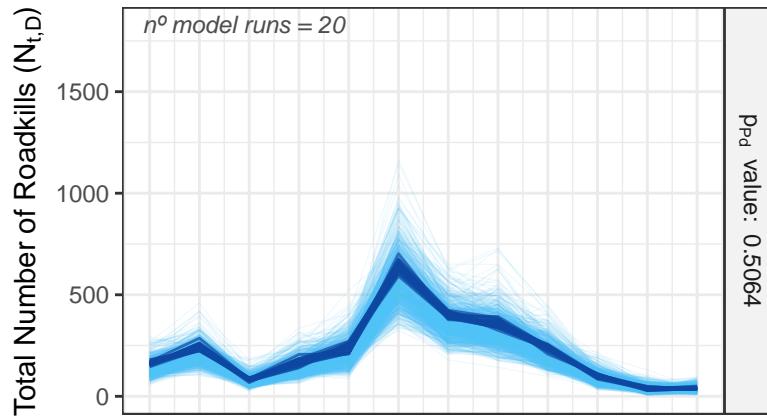
Prior: Inaccurate prior



Prior: Uninformative prior



Total Number of Roadkills ($N_{t,D}$)



Month

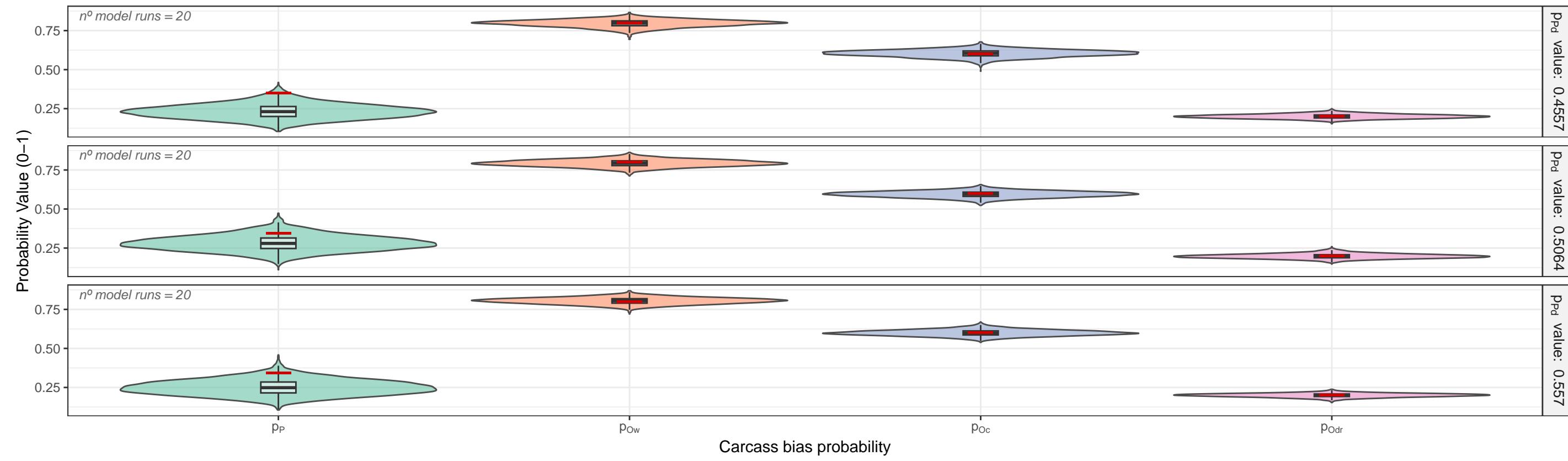
Month

Month

Mammals G2 – Complete carcass bias probabilities recovery across simulation scenarios

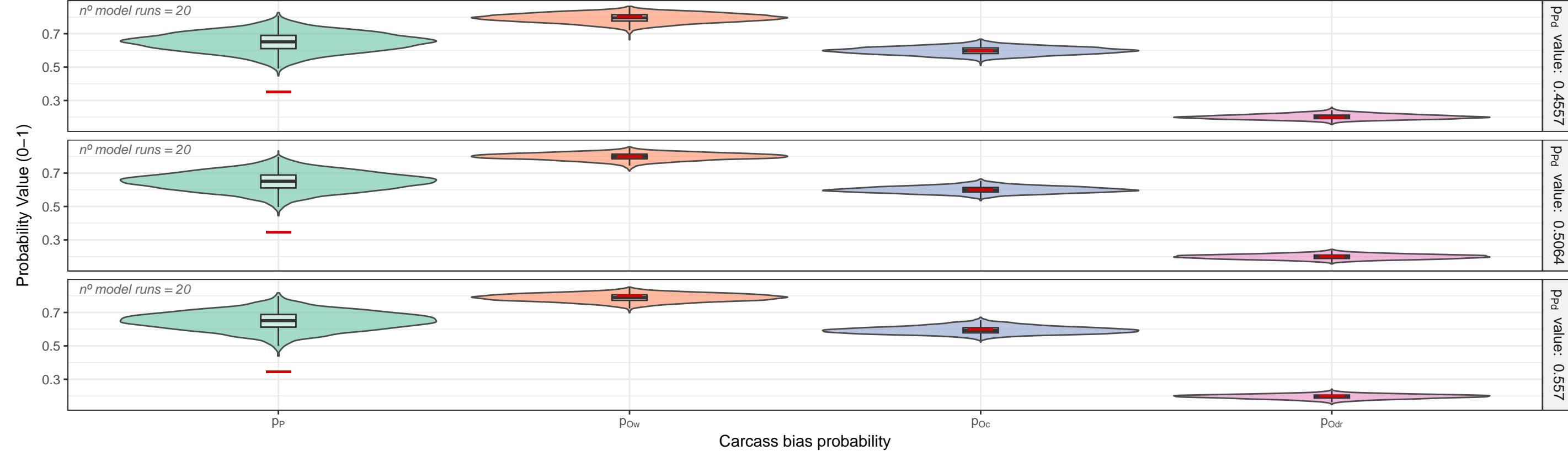
Mammals G2 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



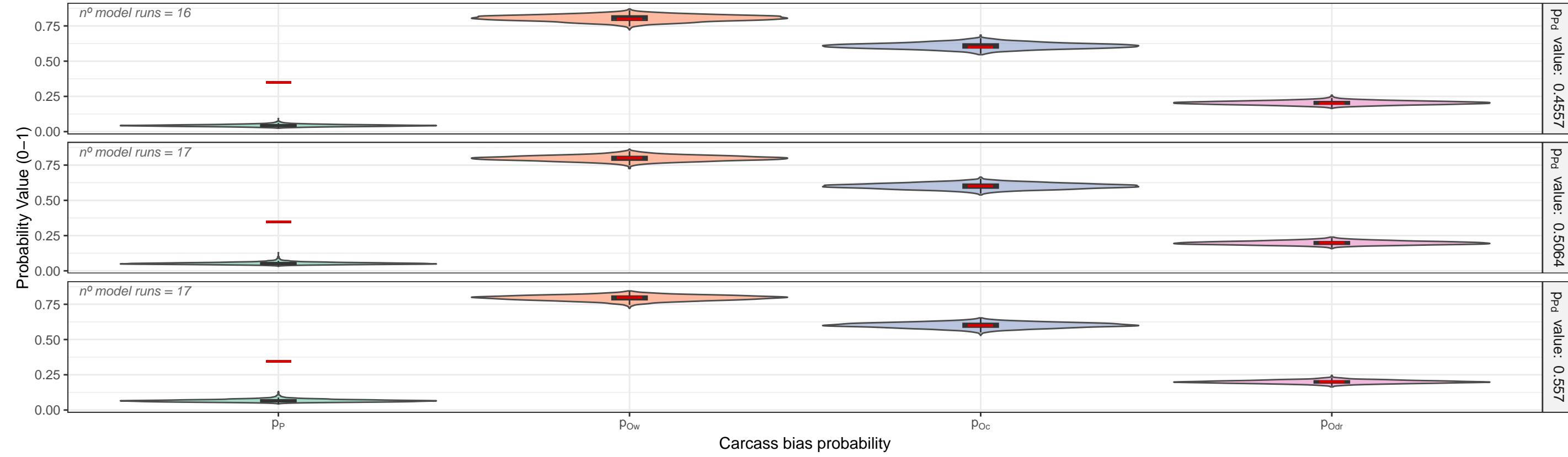
Mammals G2 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Mammals G2 – Scenario Matrix for Prior: Uninformative prior

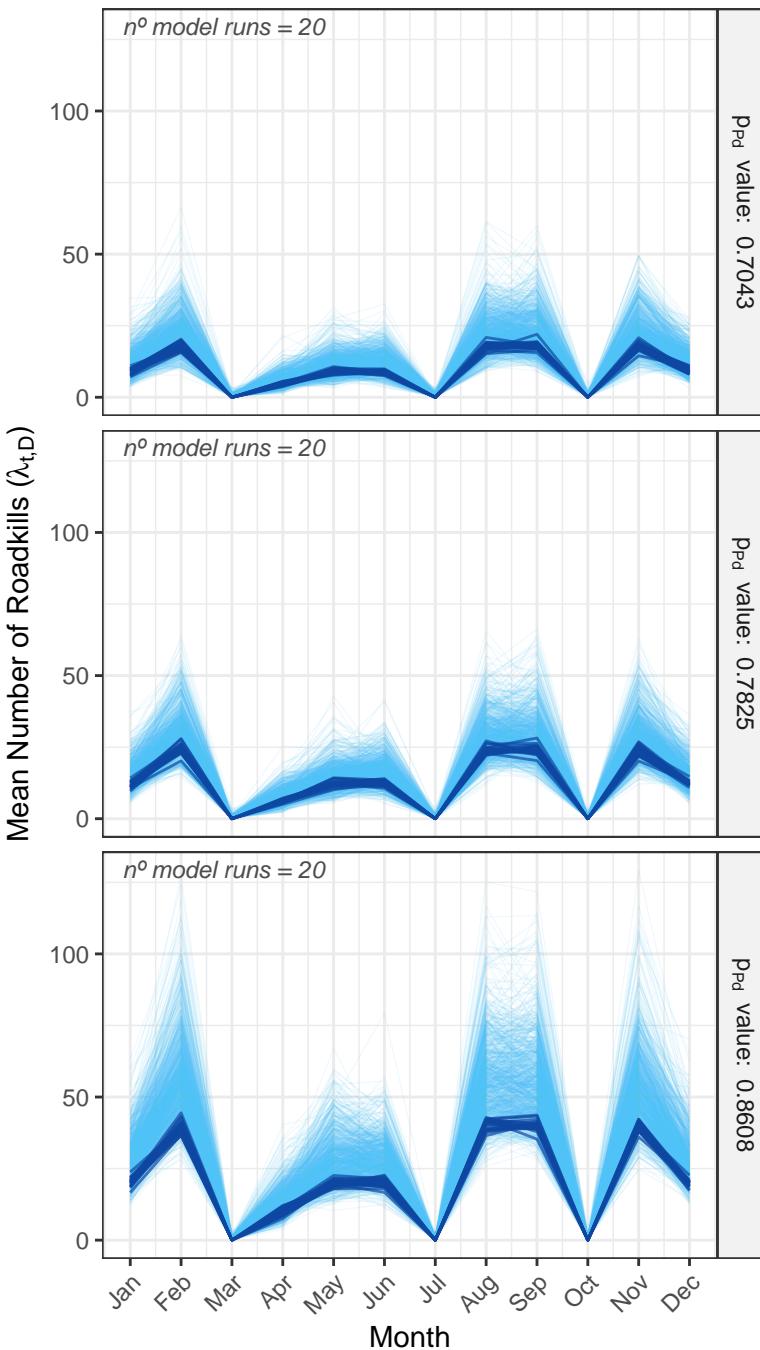
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



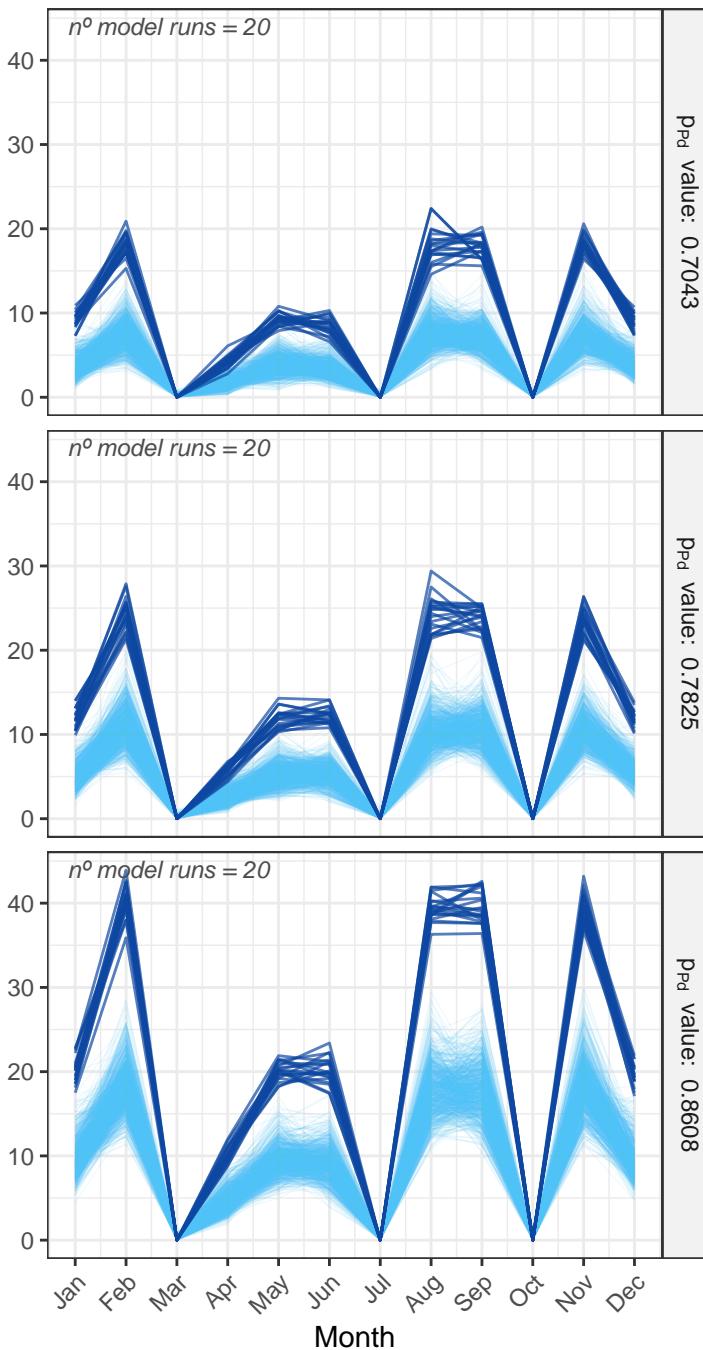
Mammals G3: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

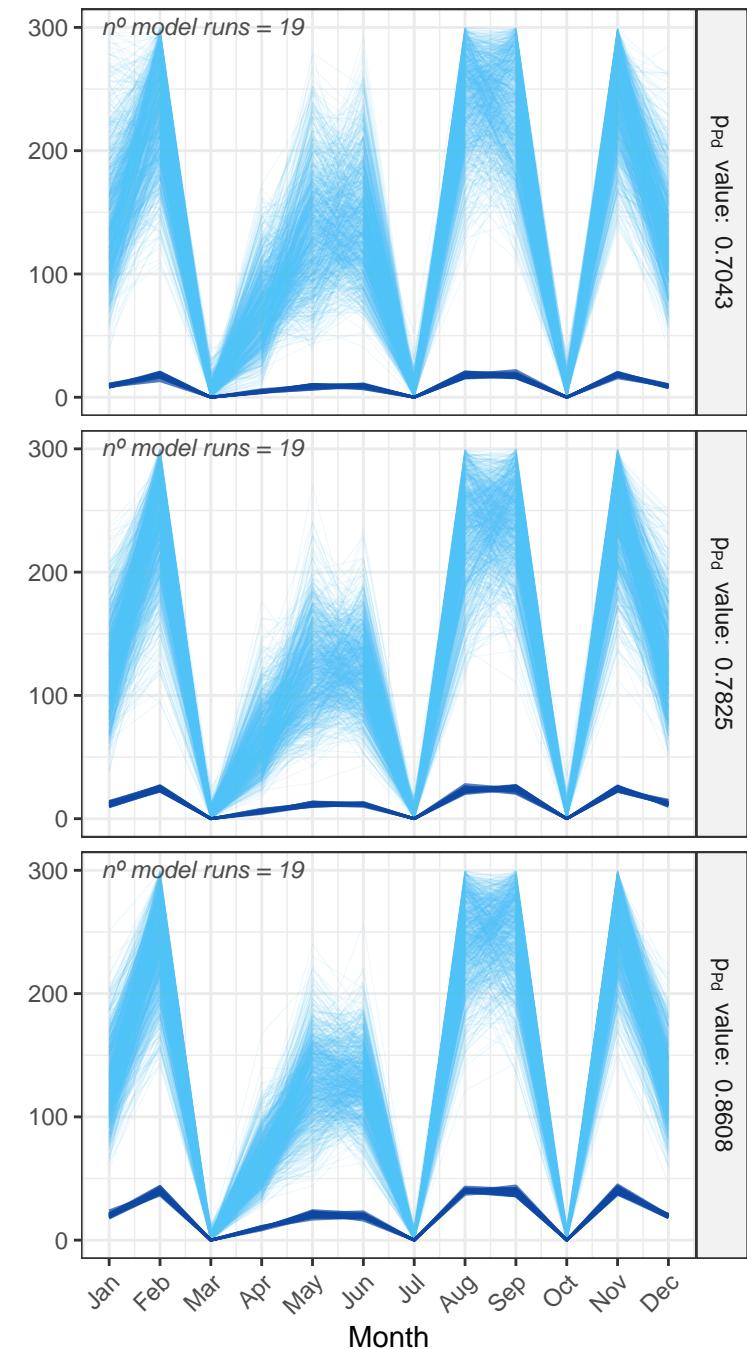
Prior: Accurate prior



Prior: Inaccurate prior



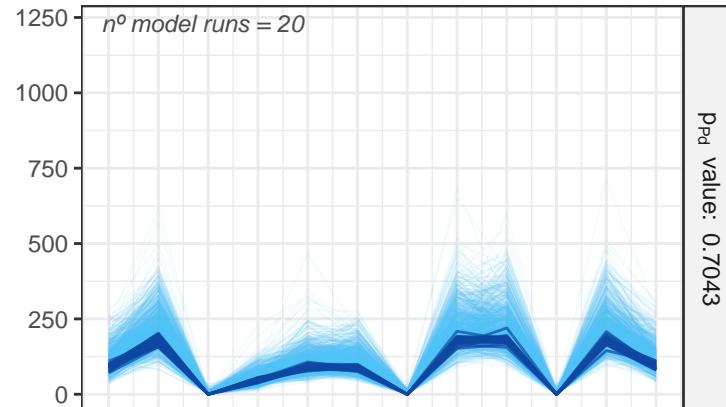
Prior: Uninformative prior



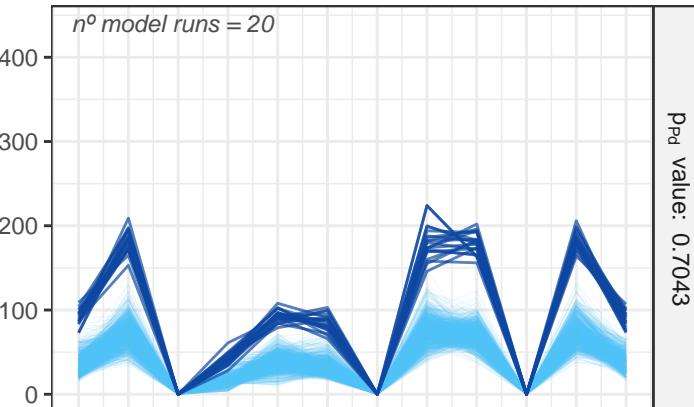
Mammals G3: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

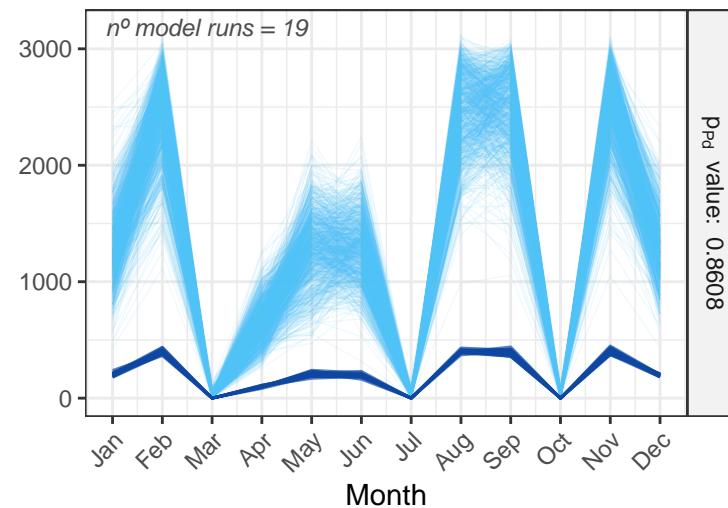
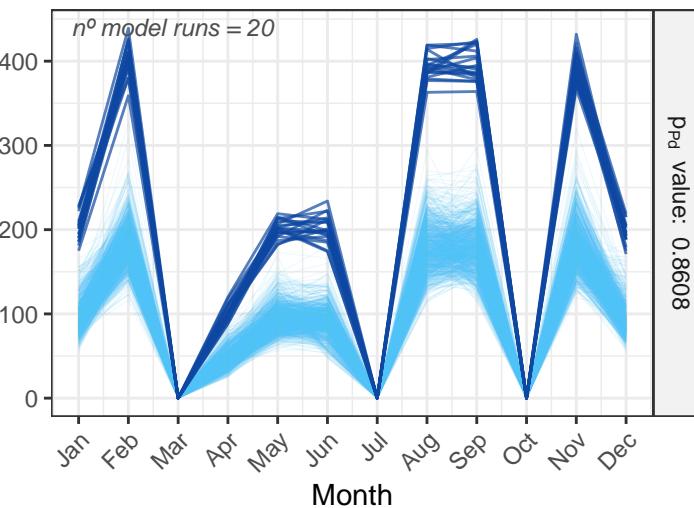
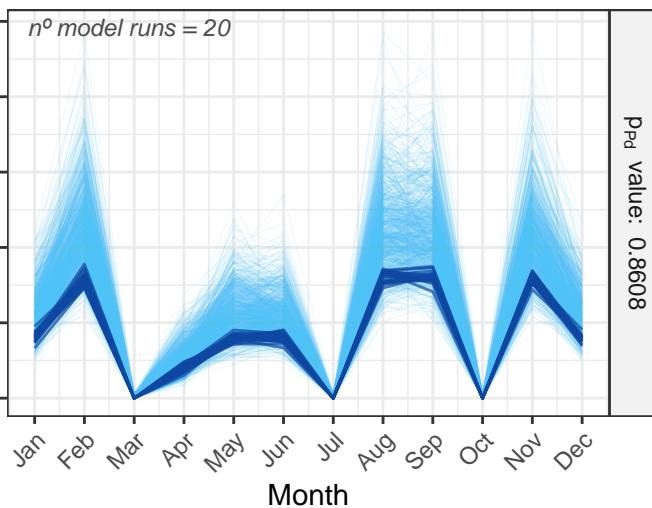
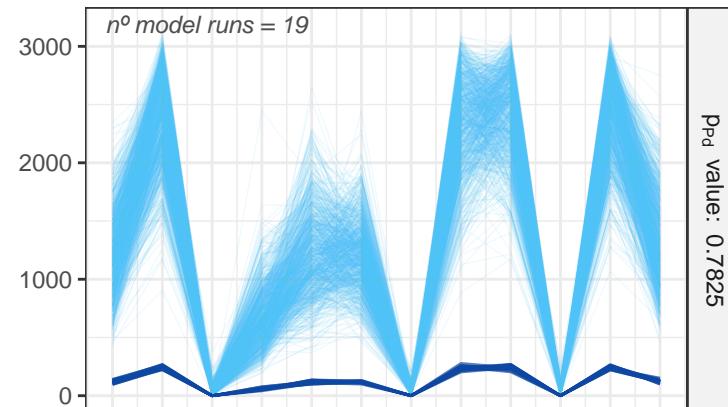
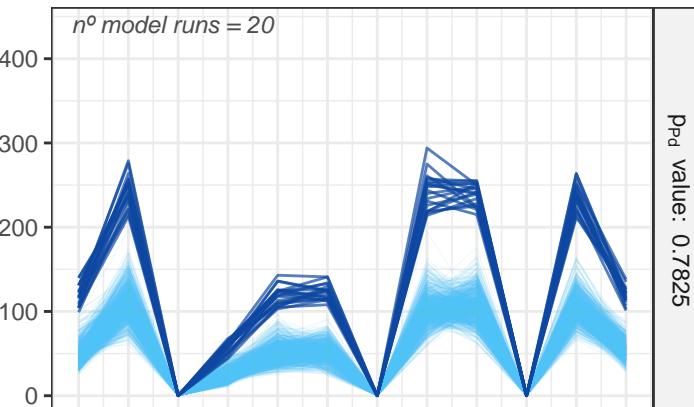
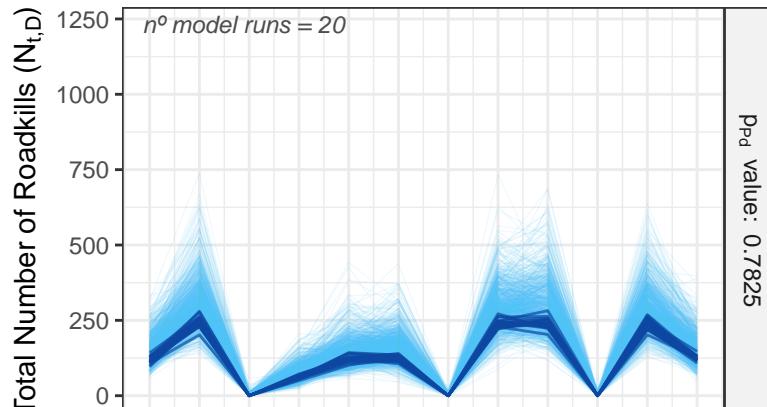
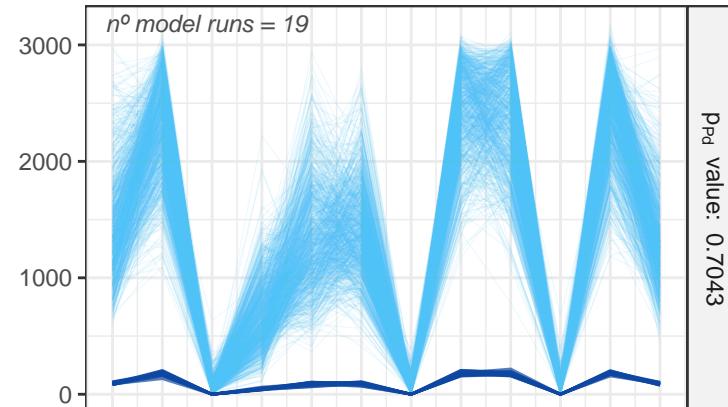
Prior: Accurate prior



Prior: Inaccurate prior



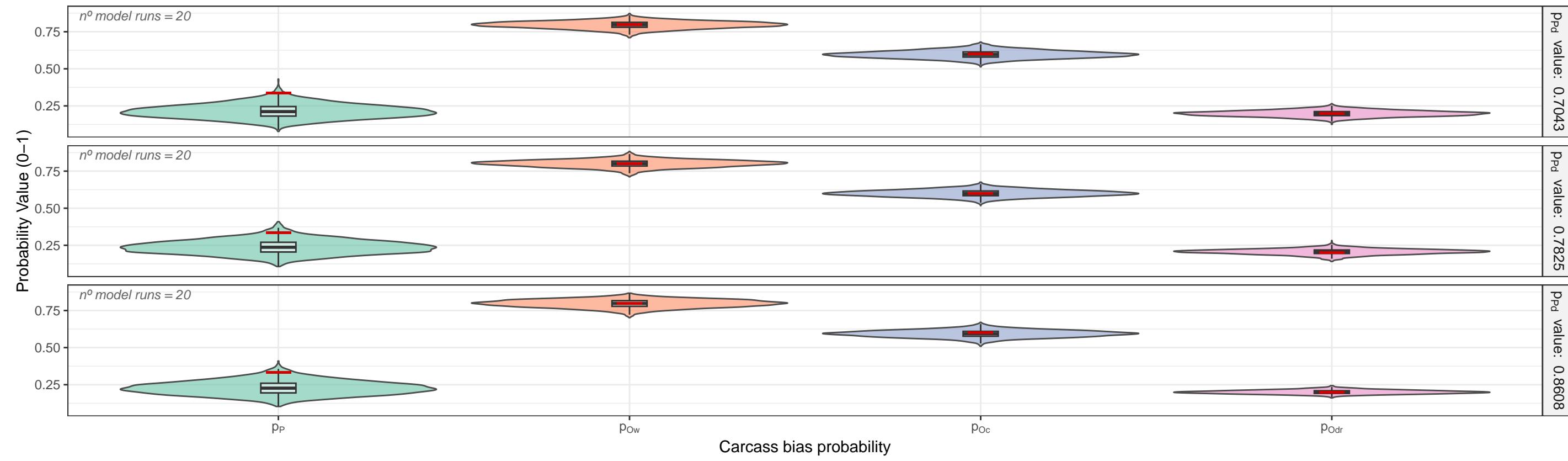
Prior: Uninformative prior



Mammals G3 – Complete carcass bias probabilities recovery across simulation scenarios

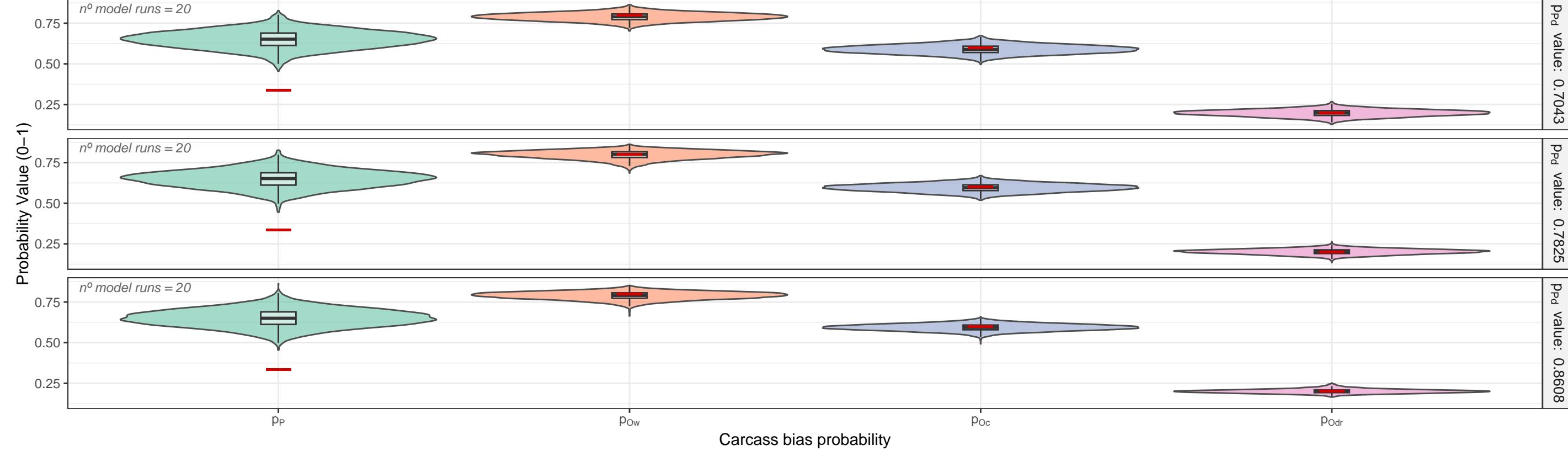
Mammals G3 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



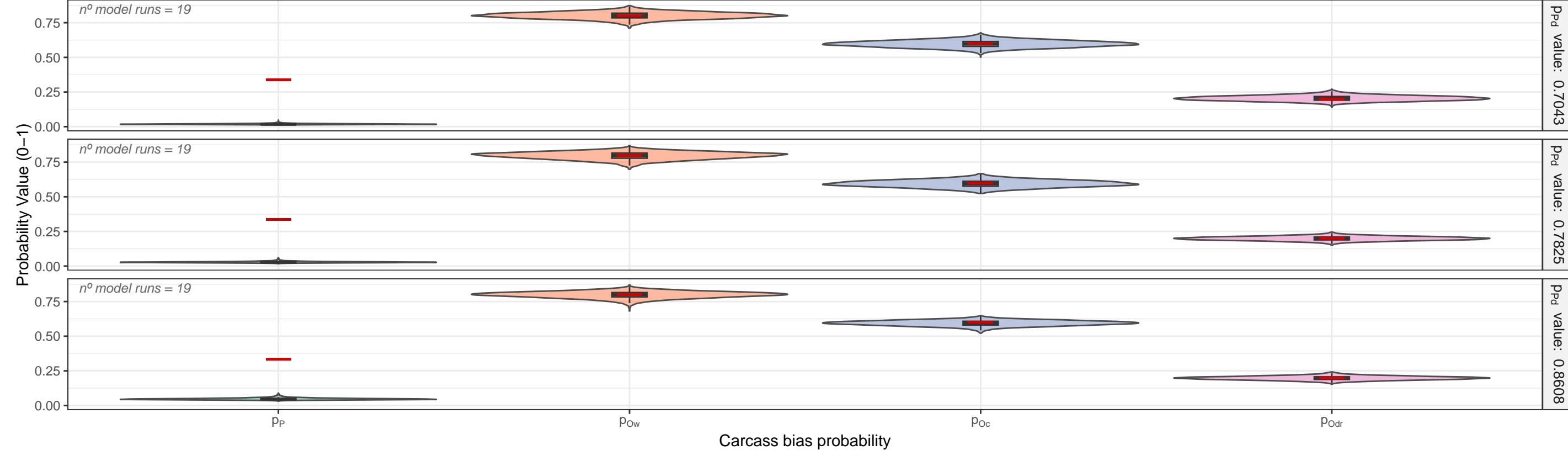
Mammals G3 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Mammals G3 – Scenario Matrix for Prior: Uninformative prior

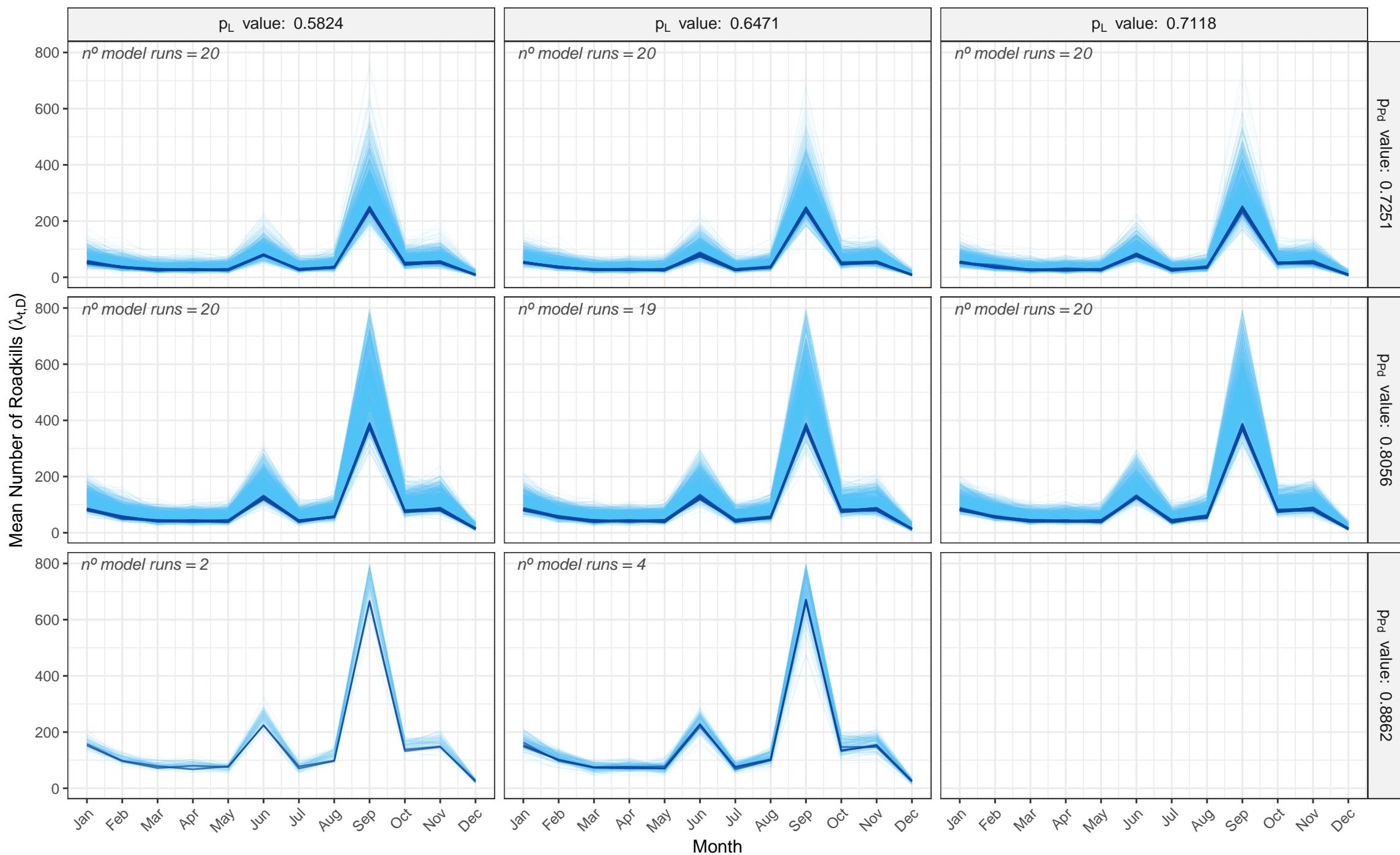
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

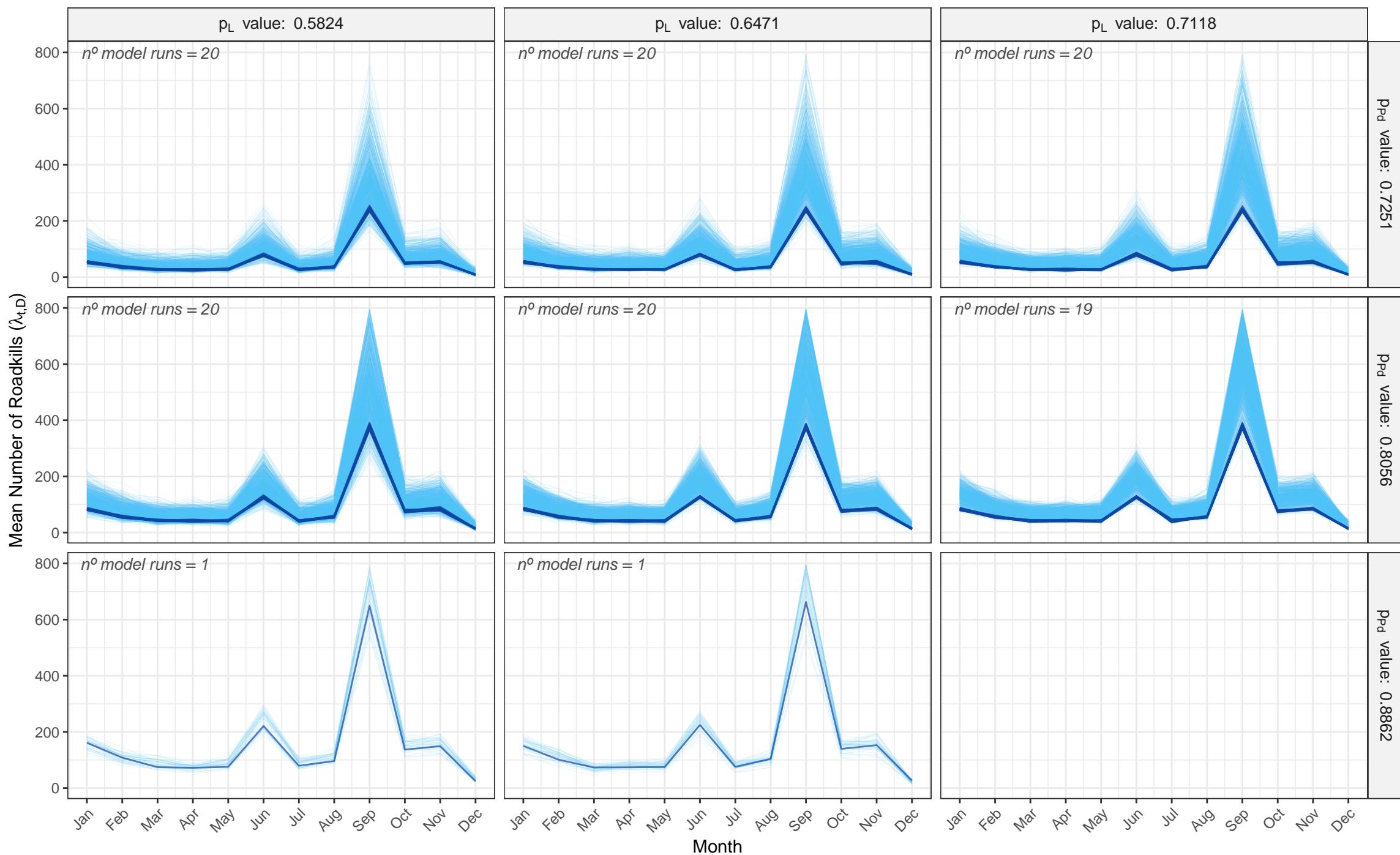
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

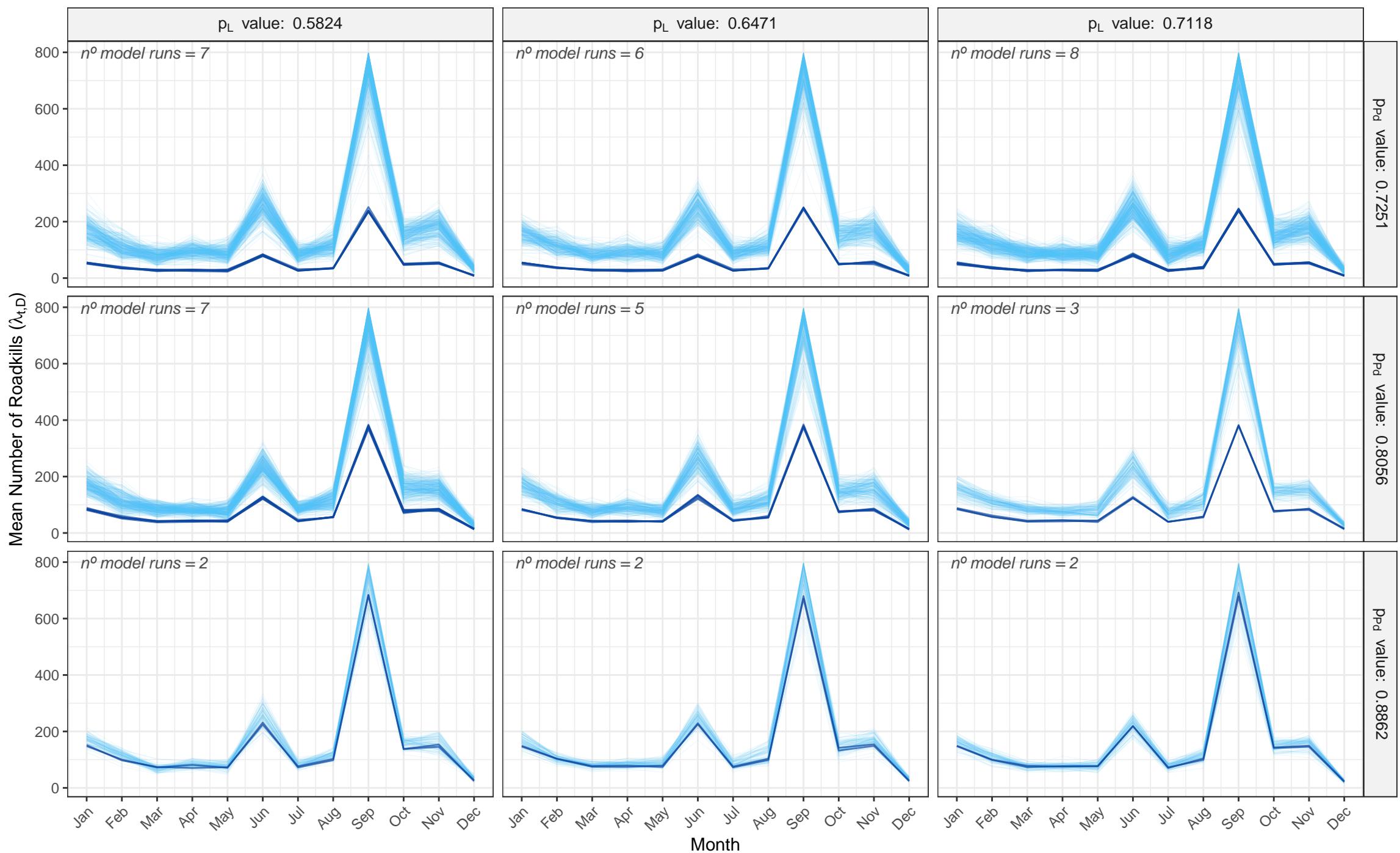
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

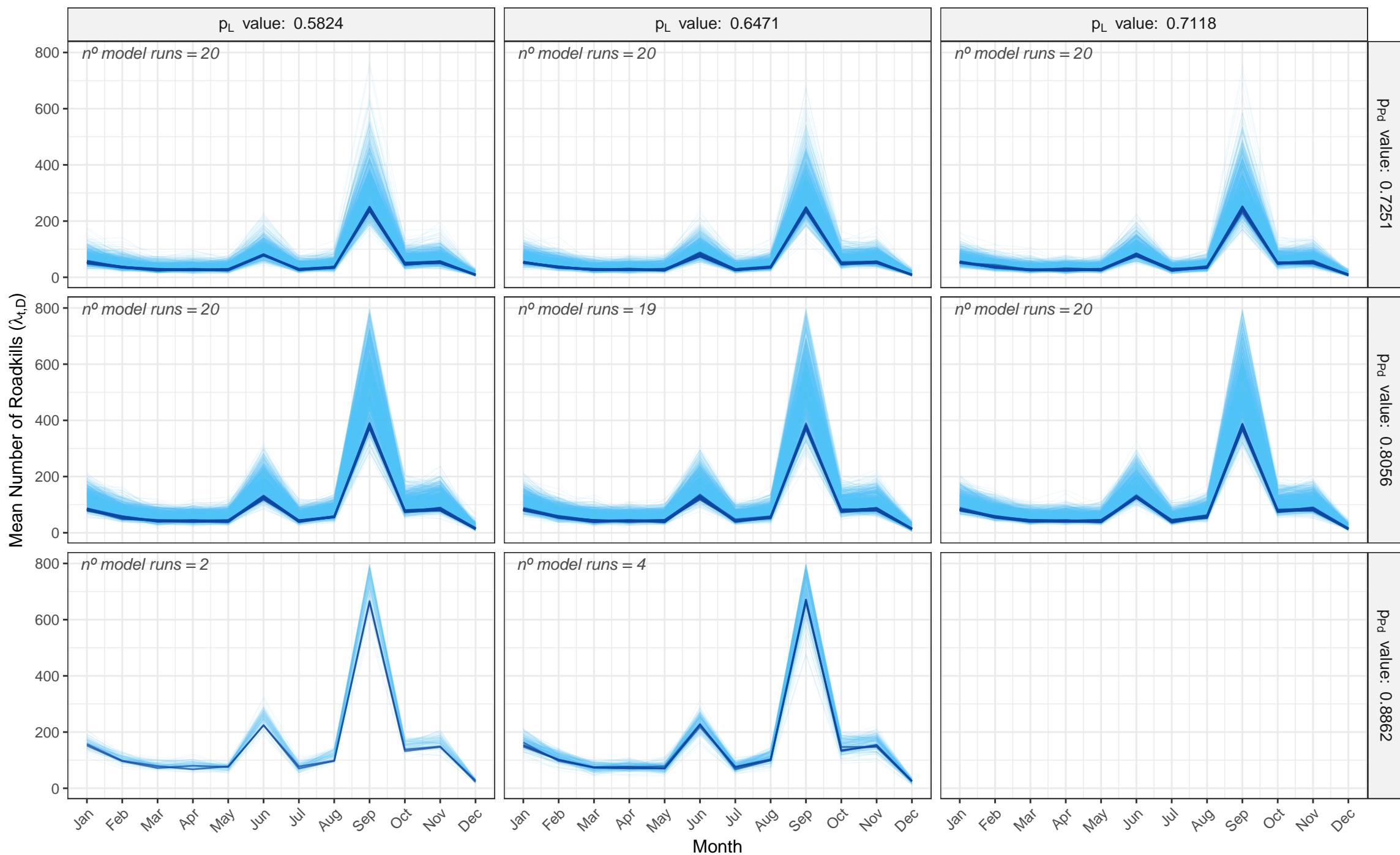
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Accurate prior

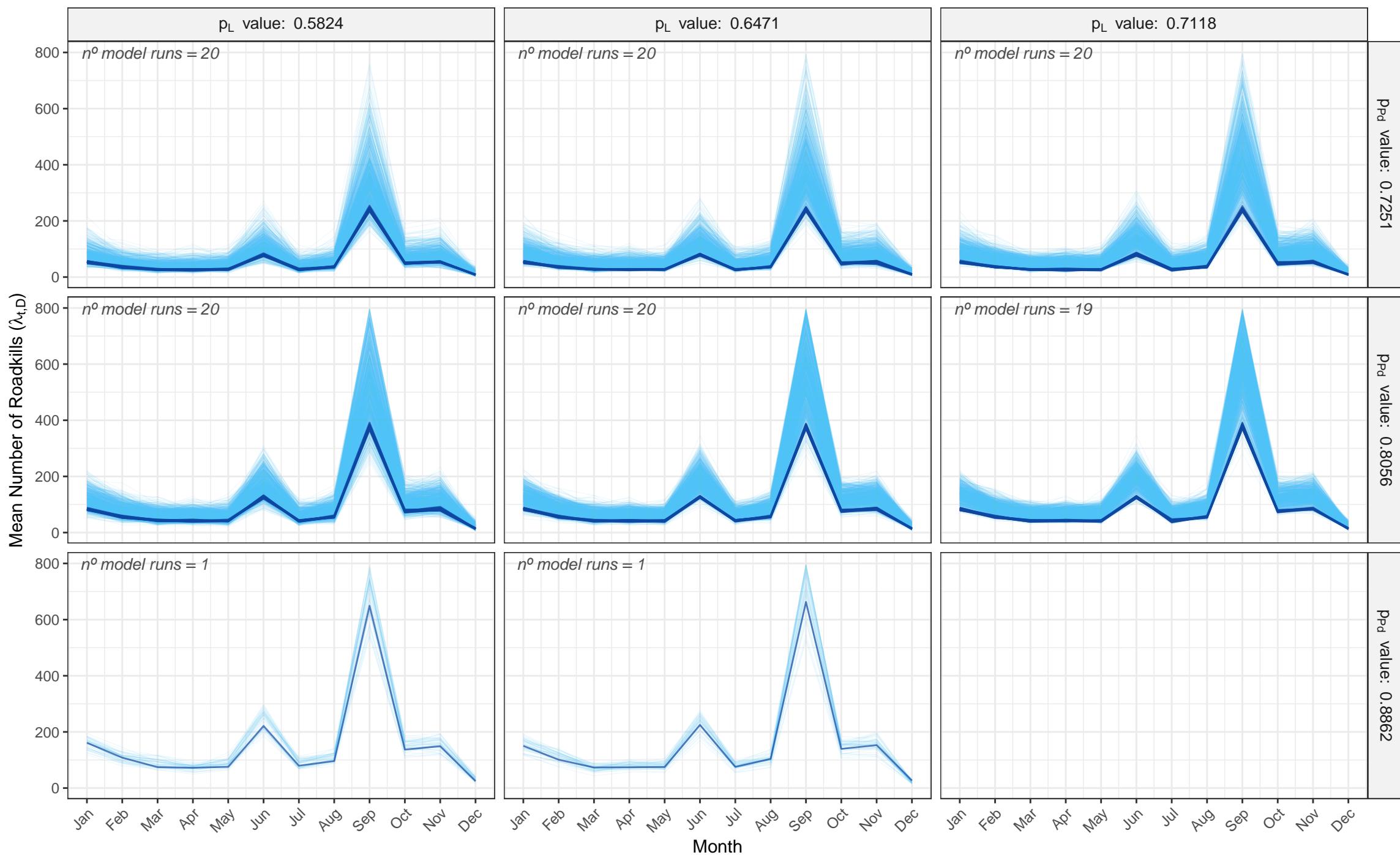
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Inaccurate prior

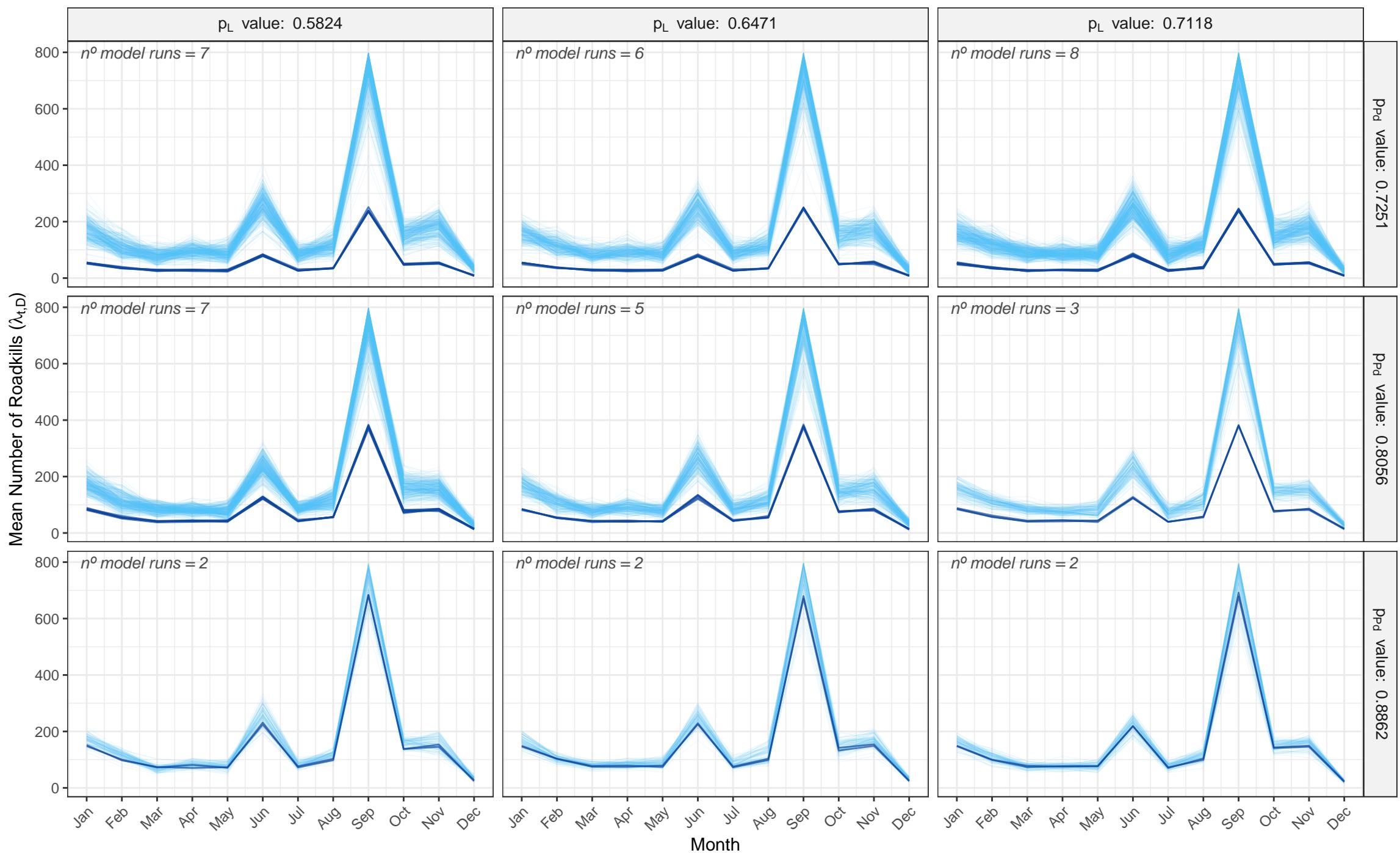
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4: Posterior Estimation Overlap per Simulation Scenario

Prior: Uninformative prior

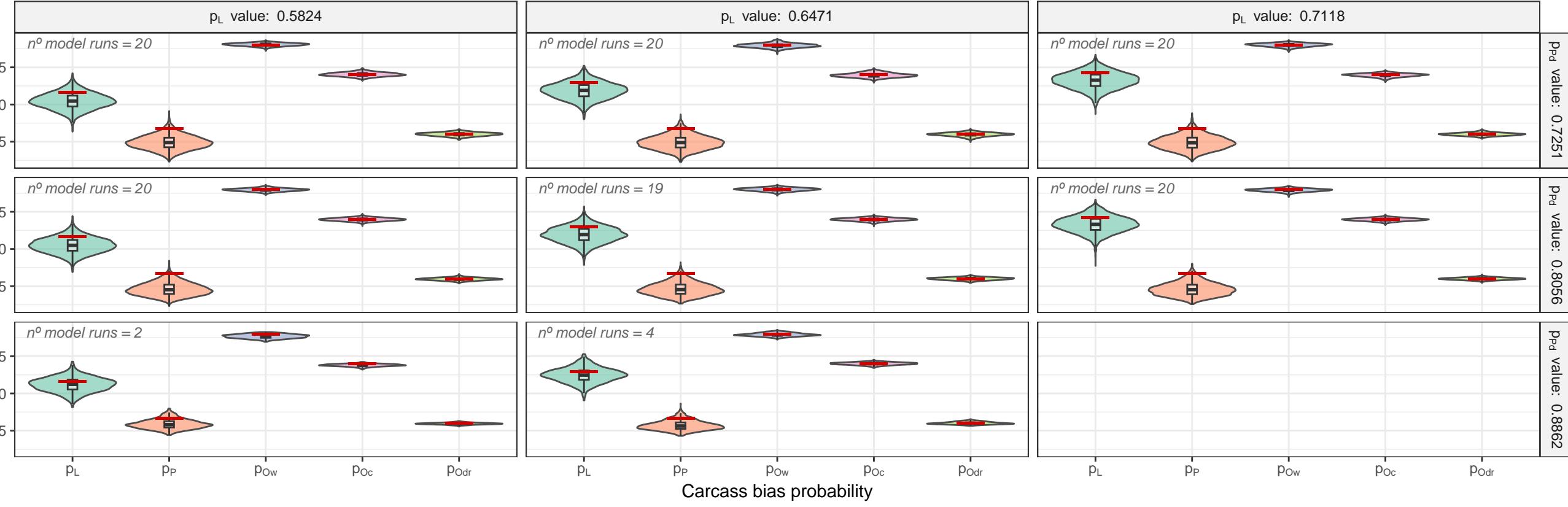
Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values



Mammals G4 – Complete carcass bias probabilities recovery across simulation scenarios

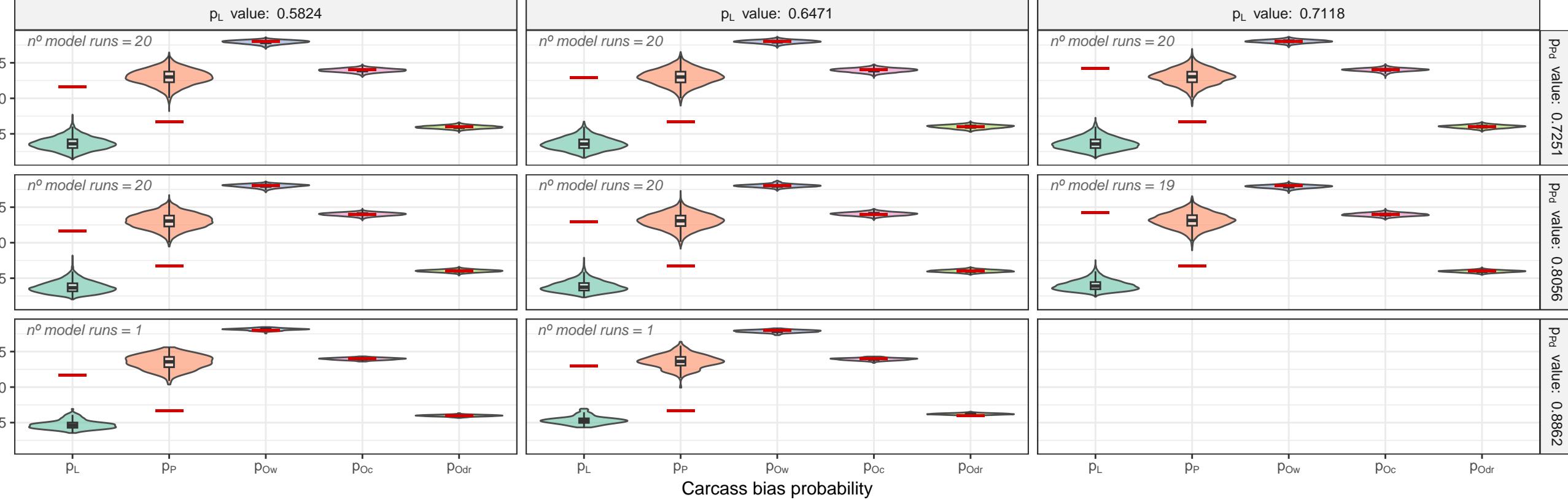
Mammals G4 – Scenario Matrix for Prior: Accurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



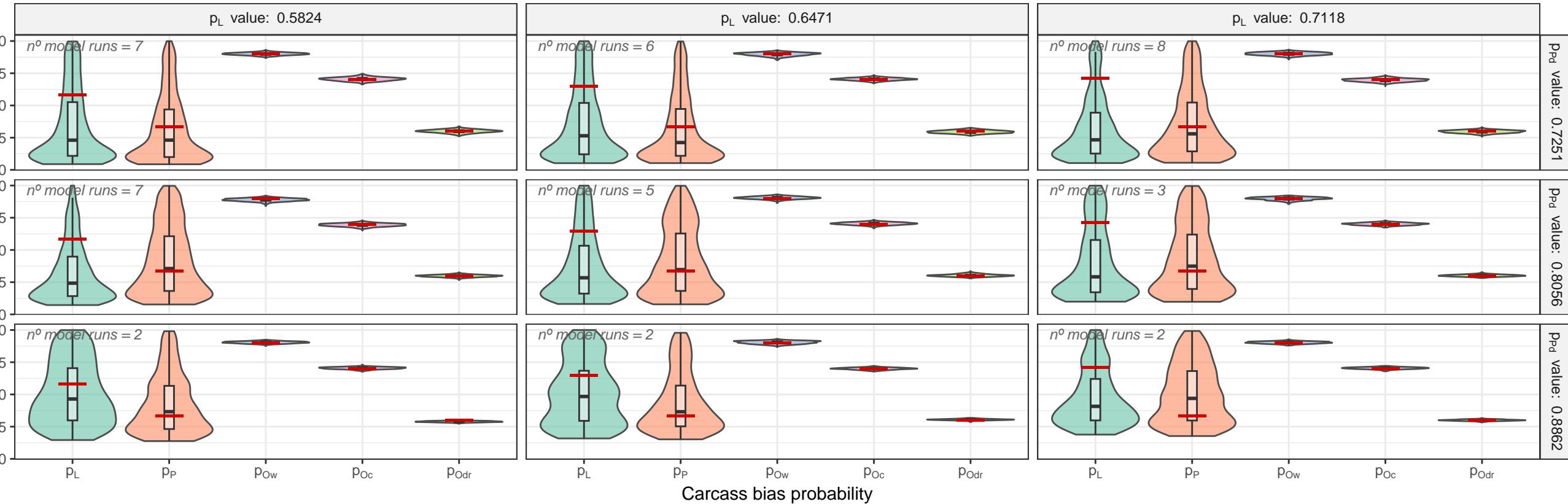
Mammals G4 – Scenario Matrix for Prior: Inaccurate prior

Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



Mammals G4 – Scenario Matrix for Prior: Uninformative prior

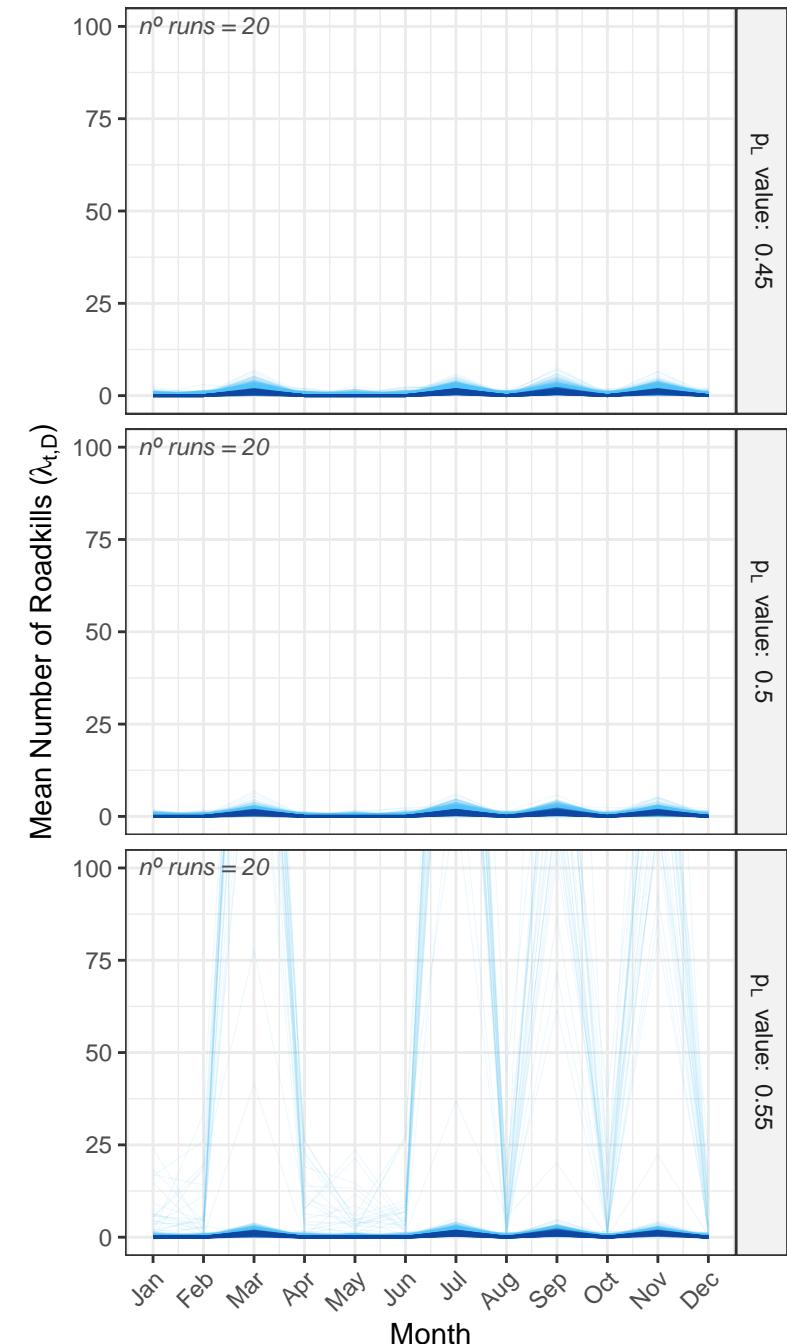
Violin plots indicate posterior distribution | Red dash (–) indicates True Simulated Values



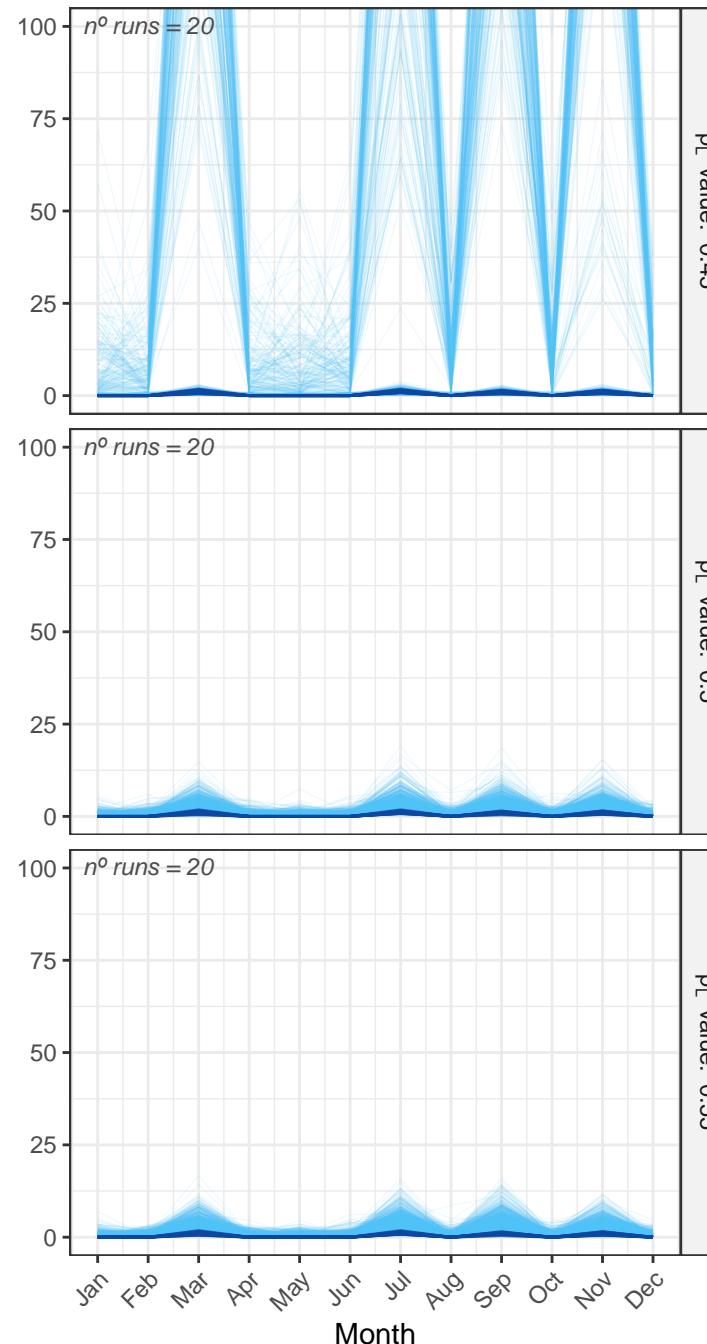
Mammals G5: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

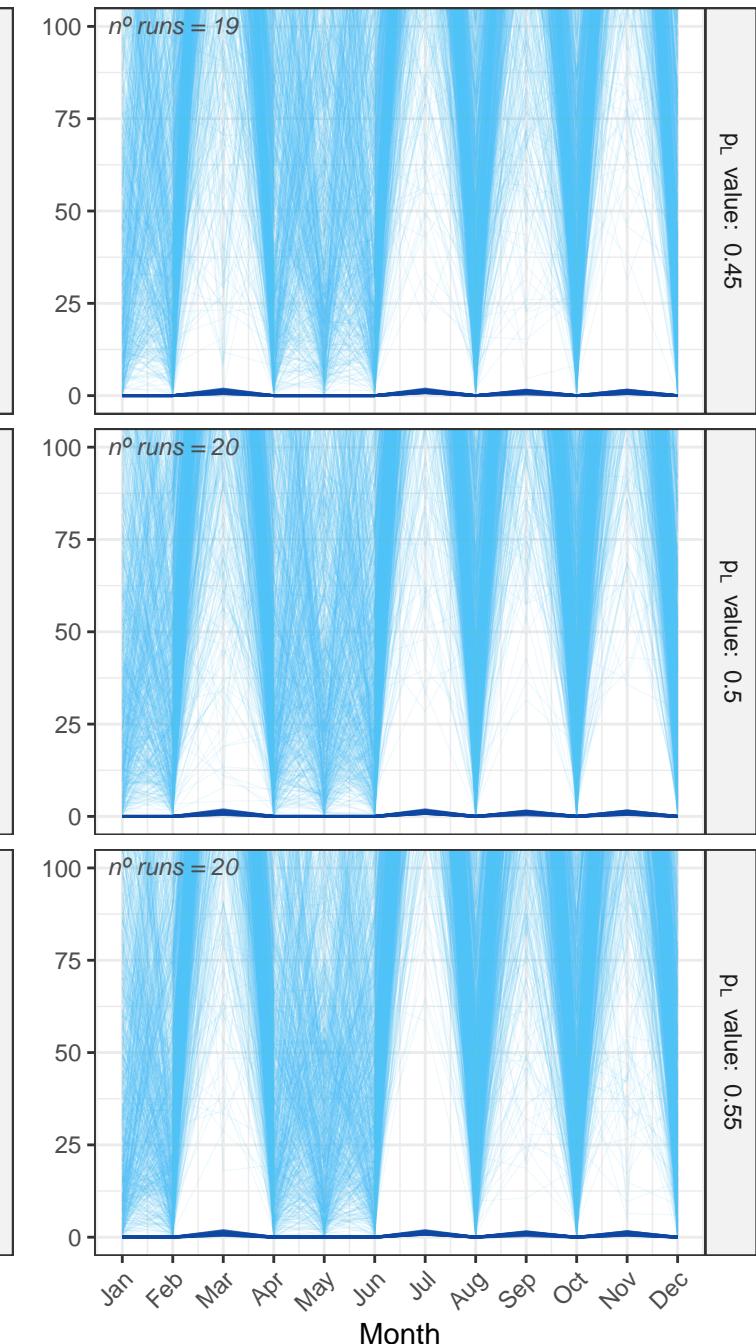
Prior: Accurate prior



Prior: Inaccurate prior



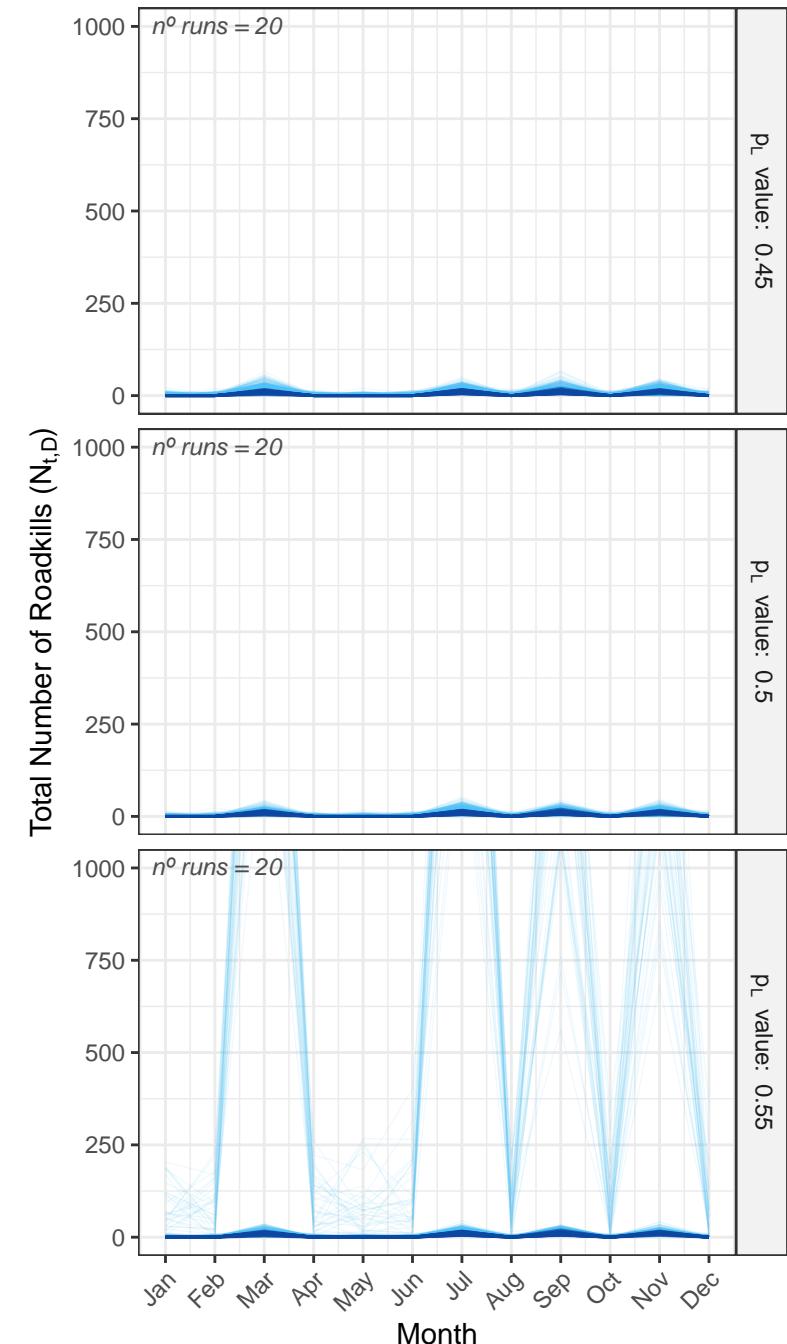
Prior: Uninformative prior



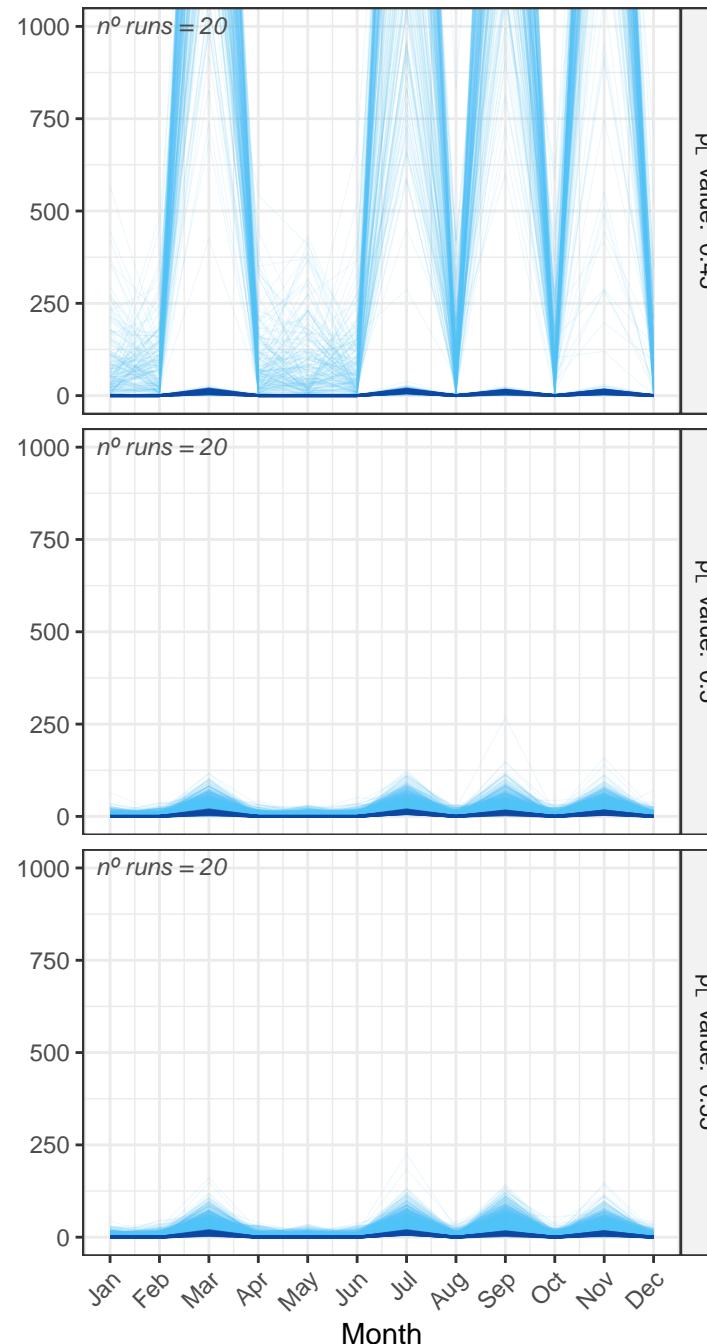
Mammals G5: Posterior Estimation Overlap per Simulation Scenario

Light Blue Bands: 50 posterior samples per sim | Dark Lines: True Simulated Values

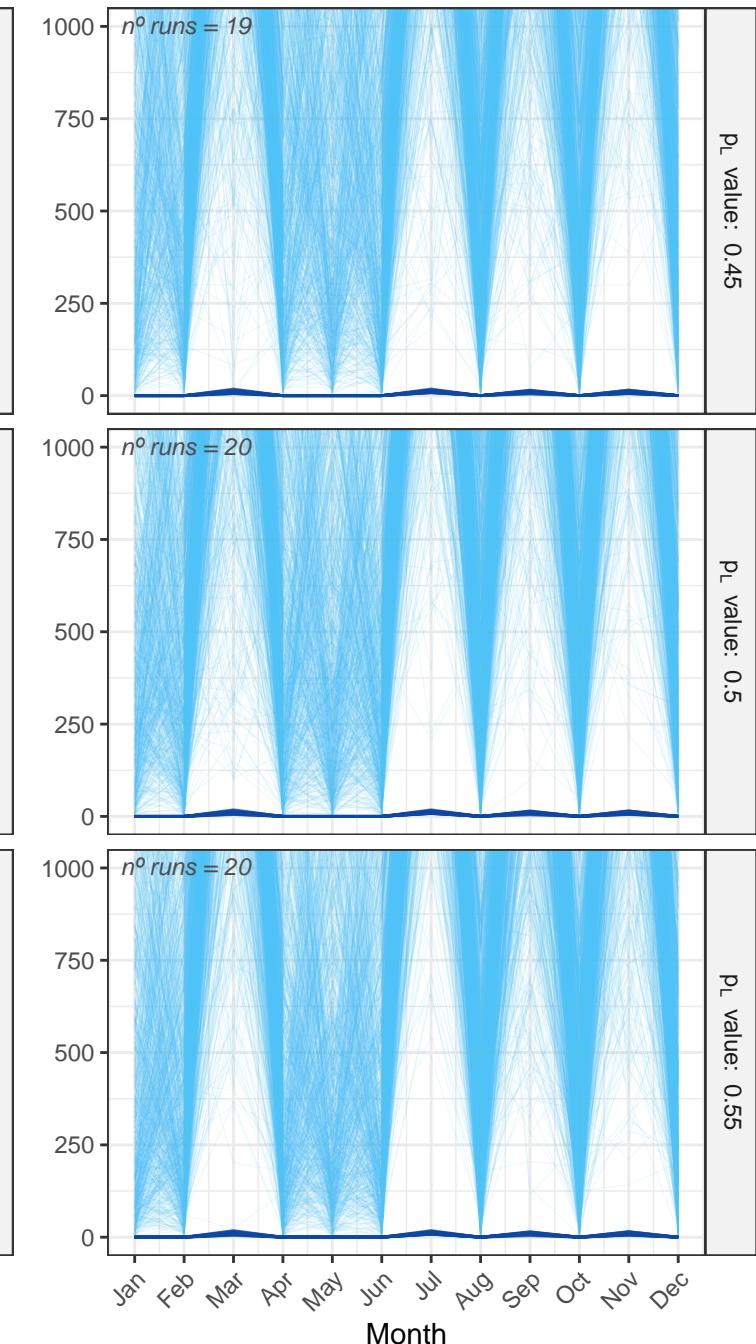
Prior: Accurate prior



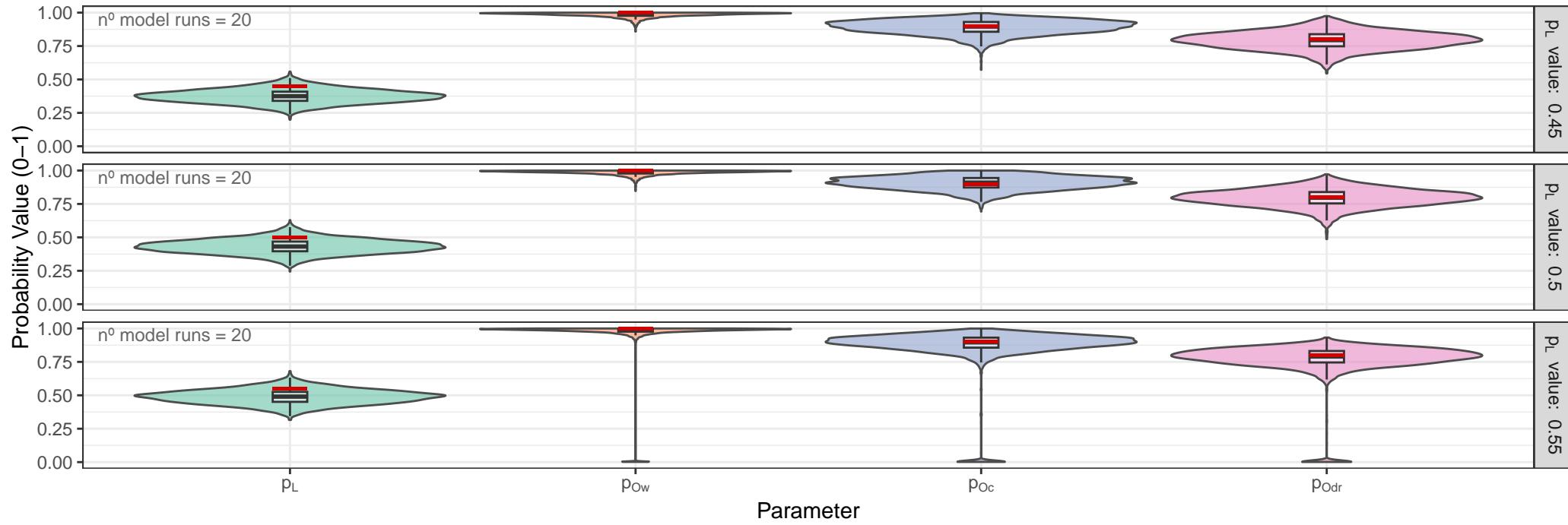
Prior: Inaccurate prior



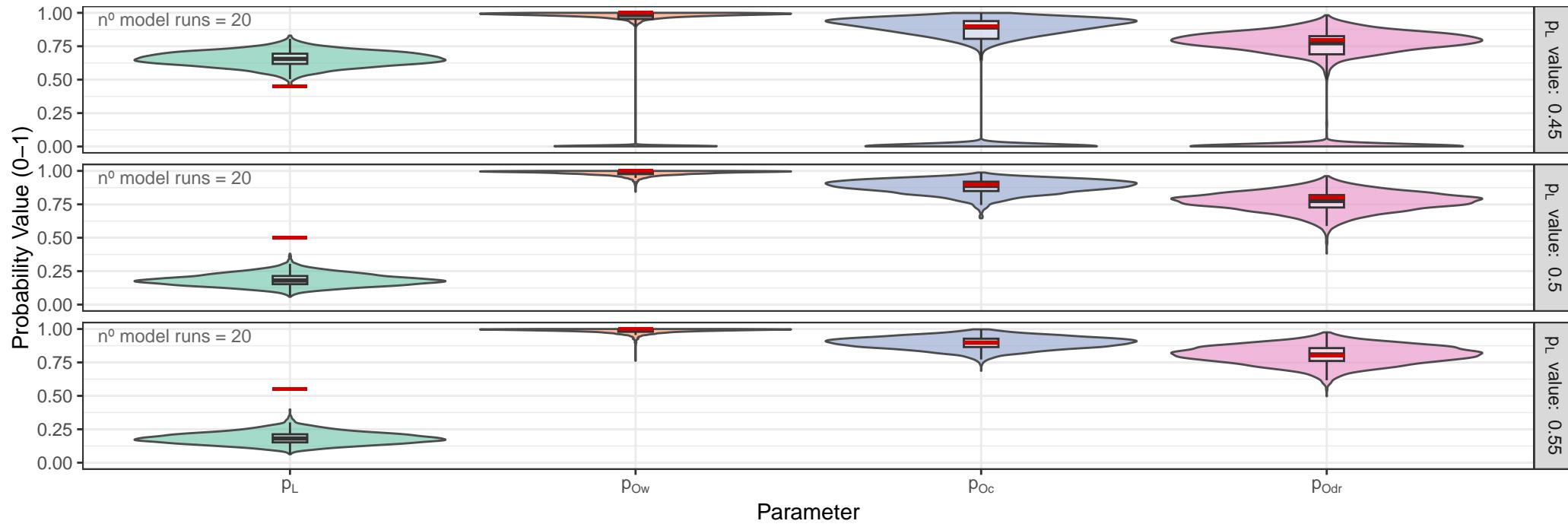
Prior: Uninformative prior



Mammals G5 – Prior: Accurate prior



Mammals G5 – Prior: Inaccurate prior



Mammals G5 – Prior: Uninformative prior

