Solutions for Frederikke

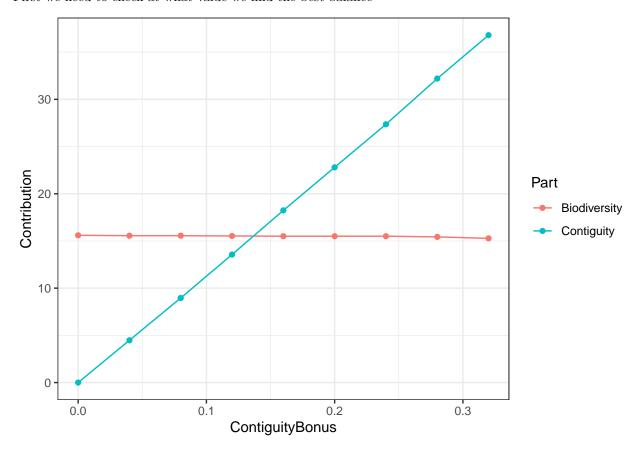
Derek Corcoran

2024-04-16

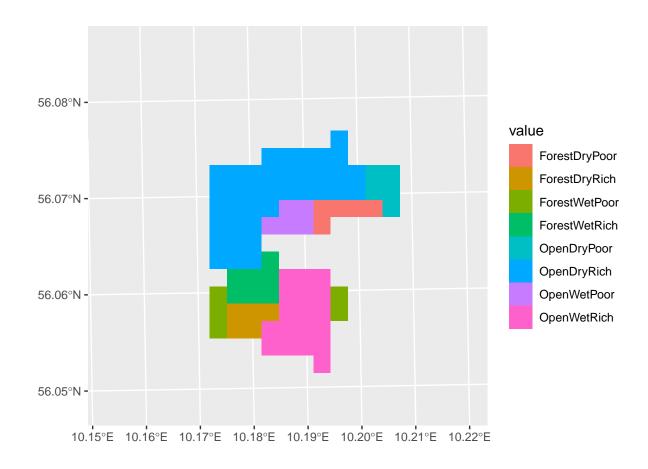
In this document we will compile the results of the optimization, as shown in other examples there is a tradeoff between contiguity and biodiversity, since we have 6 solutions we will gather in this report only the closest solution to an equilibrium

Scenario 1 Optimization for GBIF data only

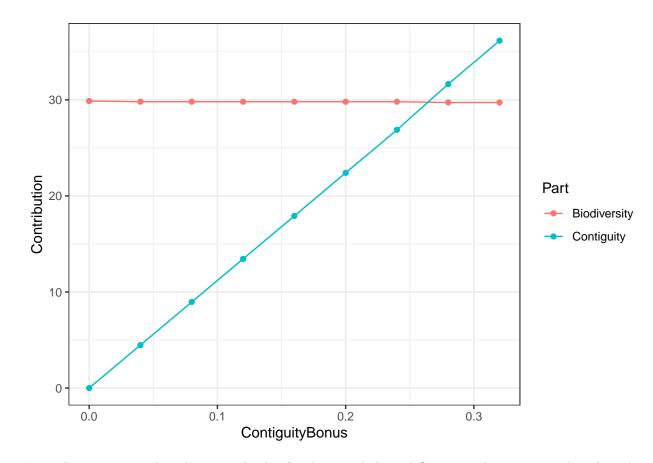
First we need to check at what value we find the best balance



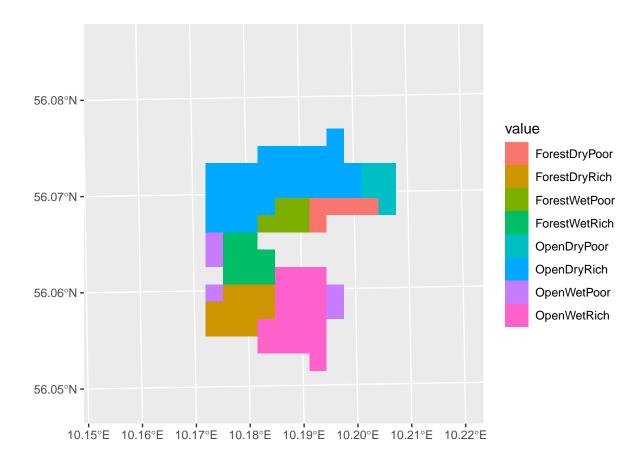
From this we can see that the optimal value for the most balanced Contiguity bonus is 0.12, based on that the solution within this problem is



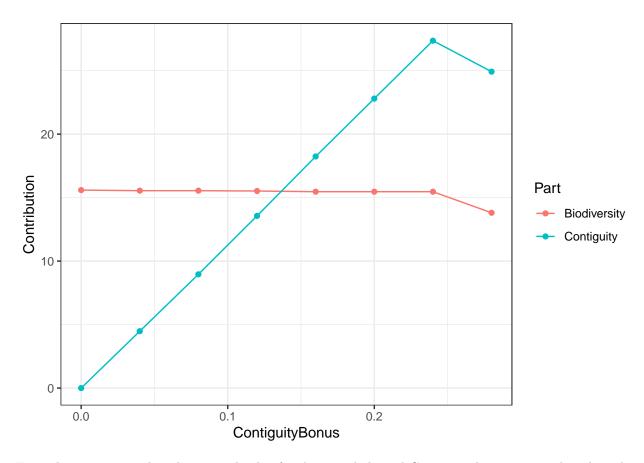
Scenario 2 Optimization for field data



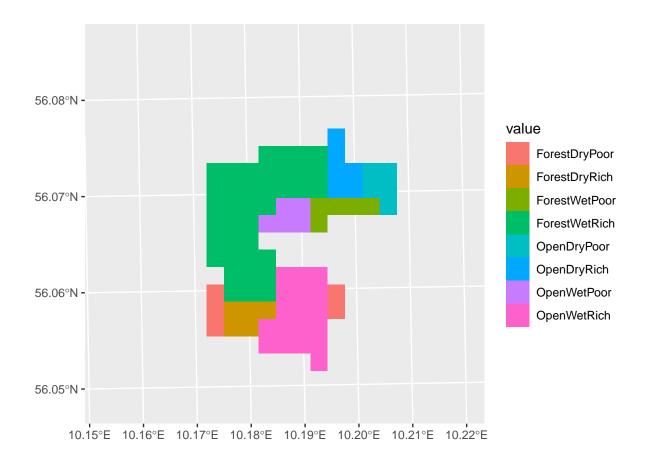
From this we can see that the optimal value for the most balanced Contiguity bonus is 0.24, based on that the solution within this problem is



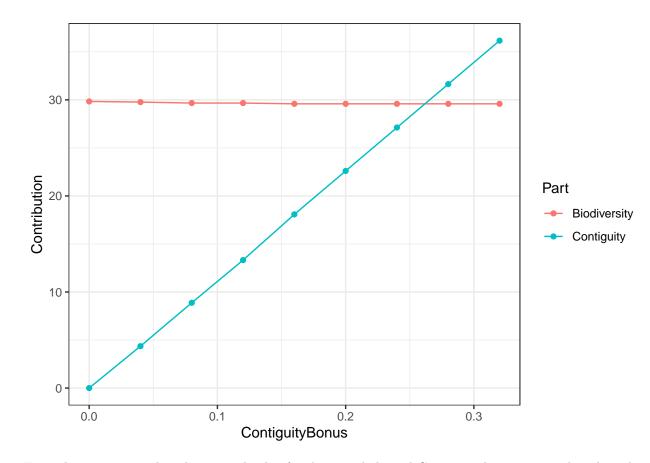
Scenario 3 Optimization for GBIF data with Scalgo



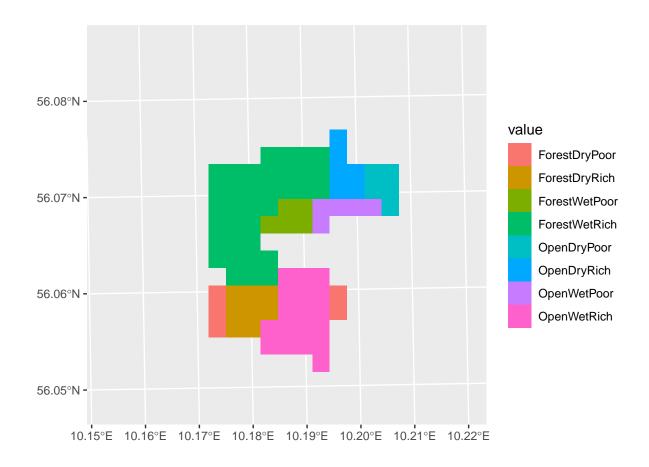
From this we can see that the optimal value for the most balanced Contiguity bonus is 0.12, based on that the solution within this problem is



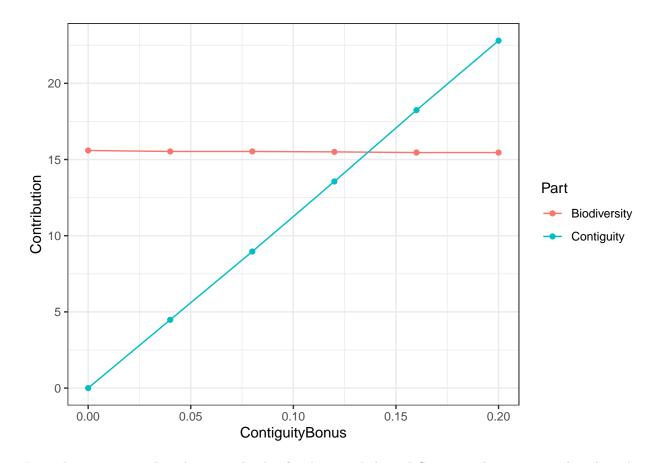
Scenario 4 Optimization for field data with Rain



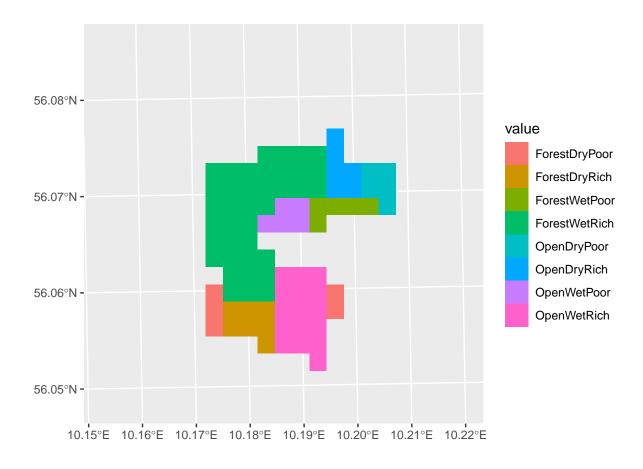
From this we can see that the optimal value for the most balanced Contiguity bonus is 0.24, based on that the solution within this problem is



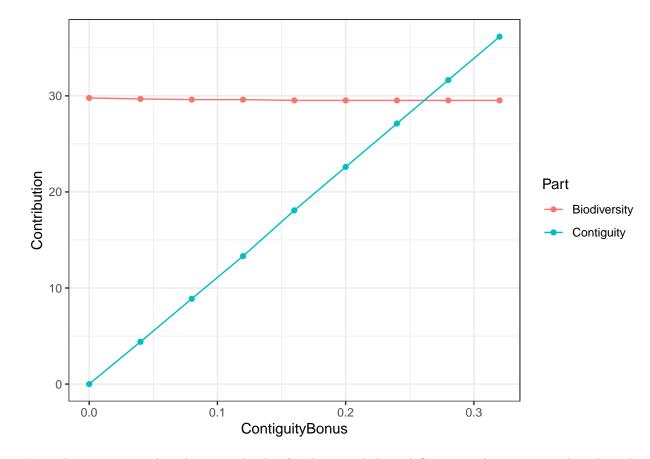
Scenario 5 Optimization for GBIF data with Scalgo and proportions



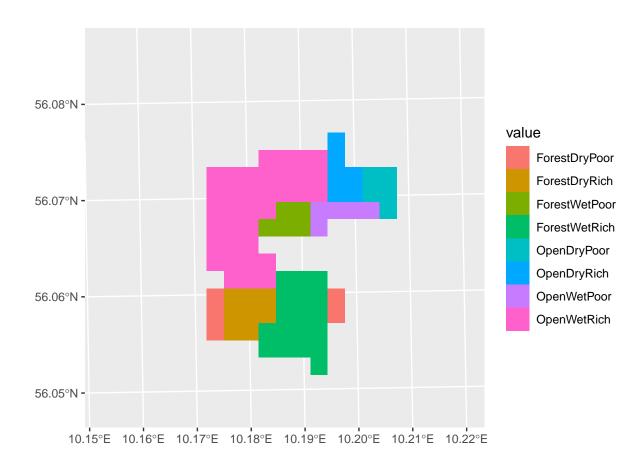
From this we can see that the optimal value for the most balanced Contiguity bonus is 0.12, based on that the solution within this problem is



Scenario 6 Optimization for field data with Rain and Forest



From this we can see that the optimal value for the most balanced Contiguity bonus is 0.24, based on that the solution within this problem is



All solutions

here is a comparison of all solutions

