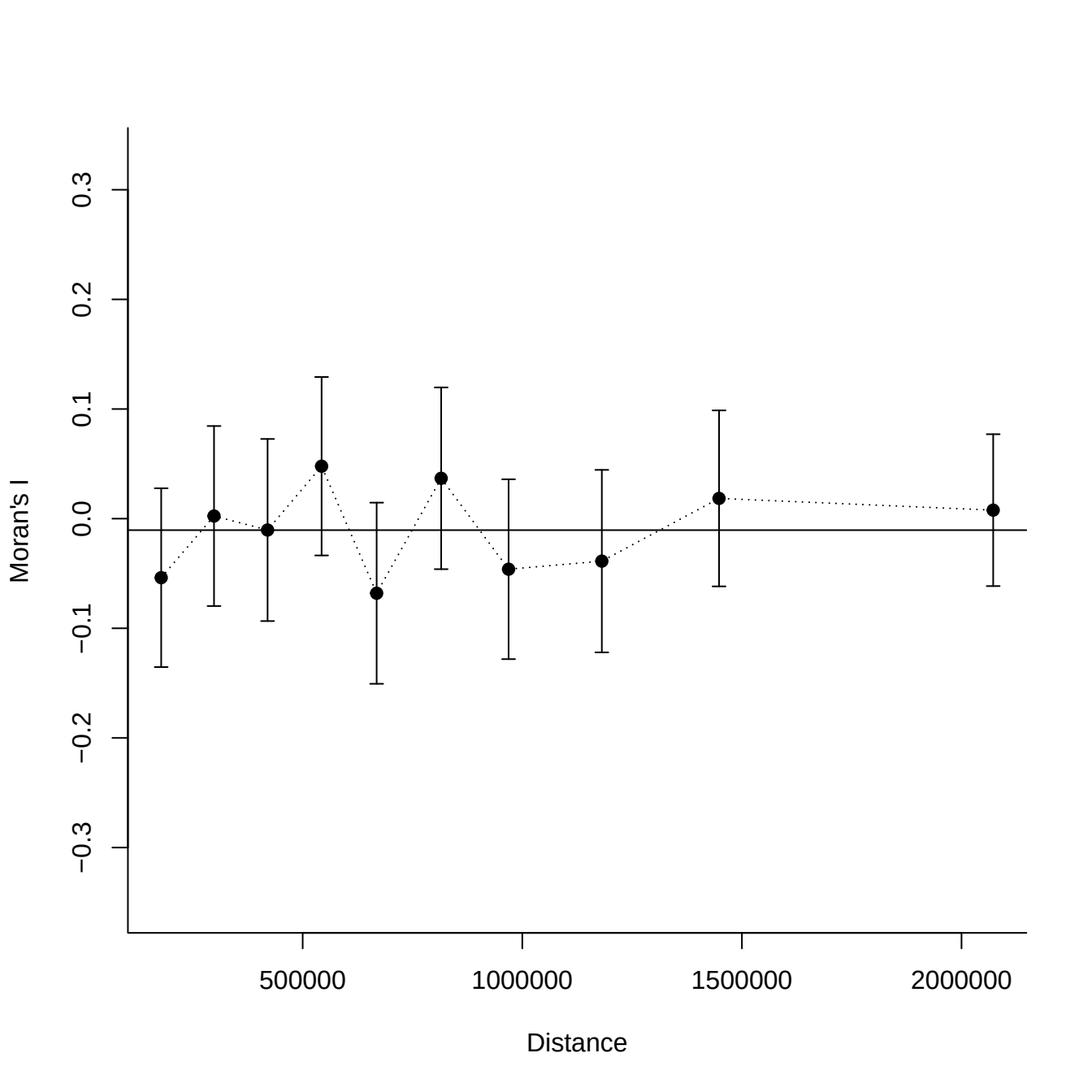
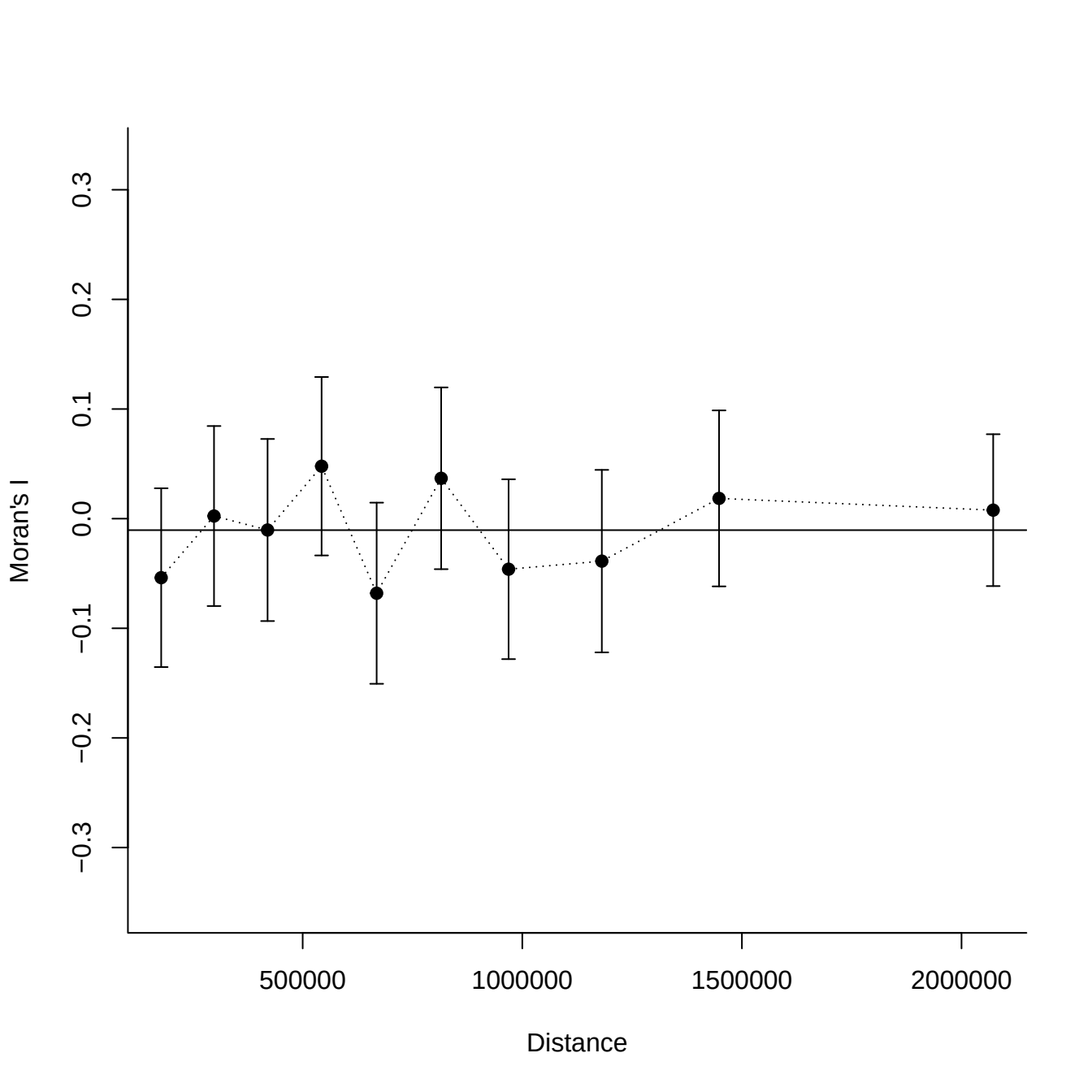
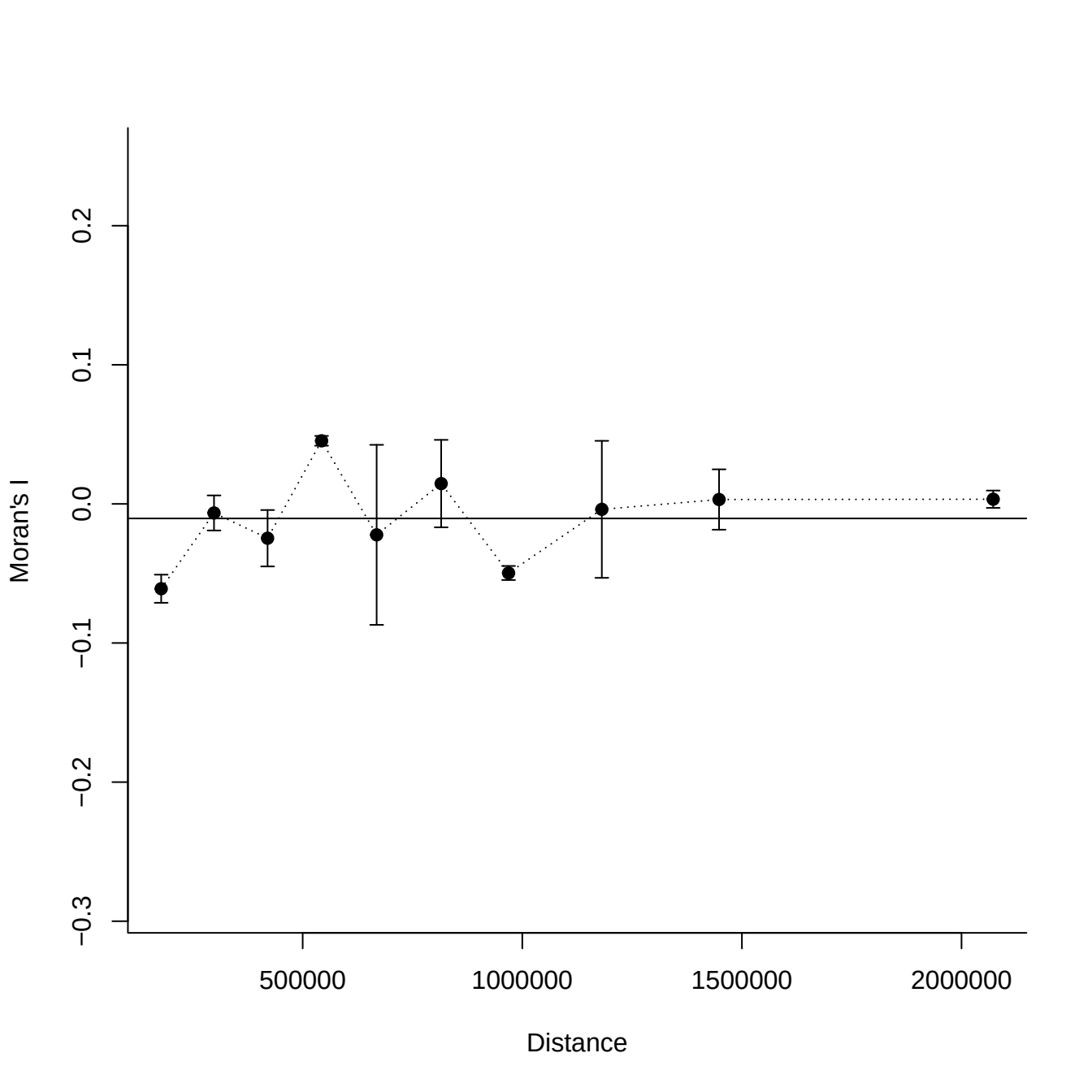
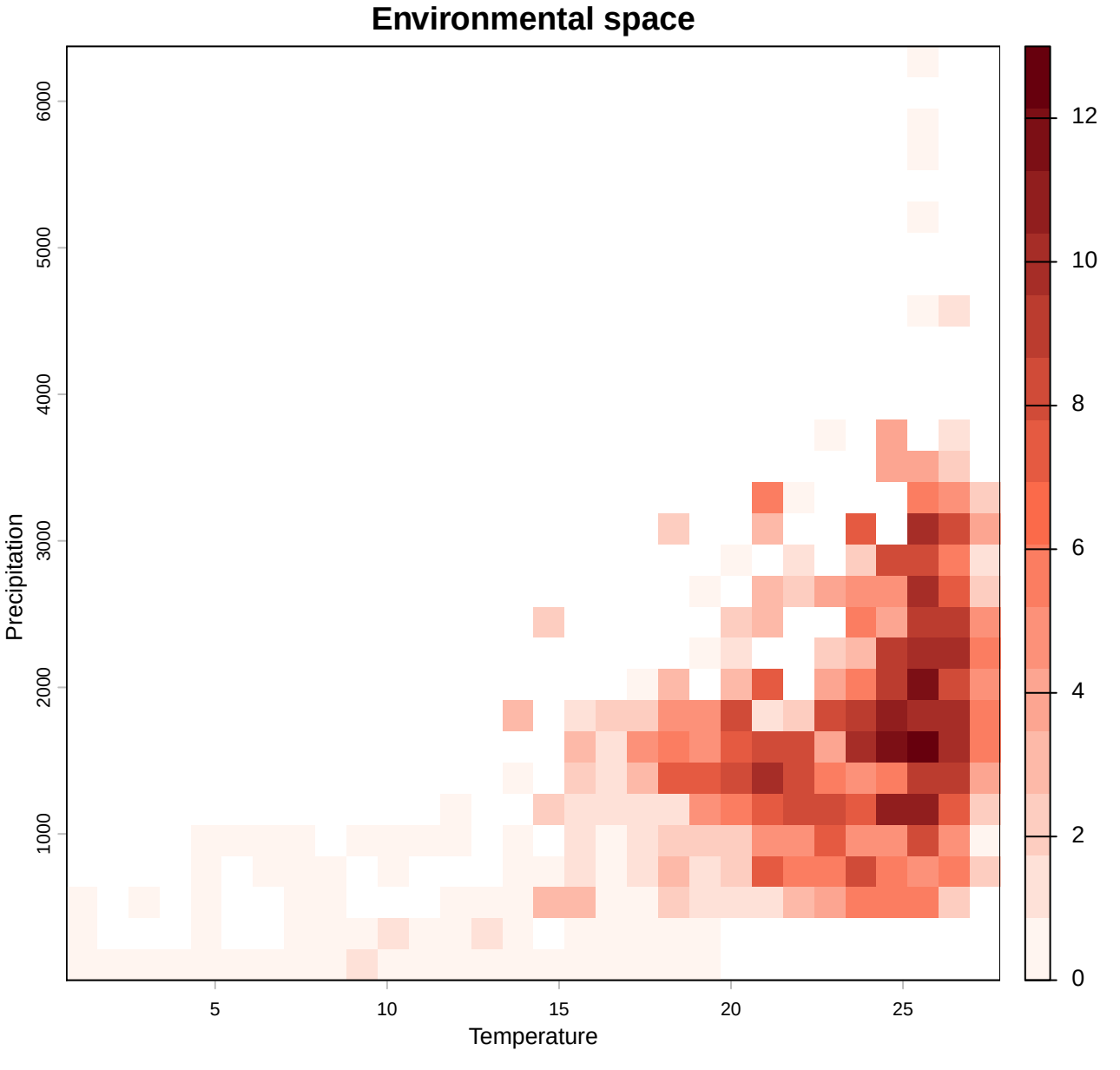
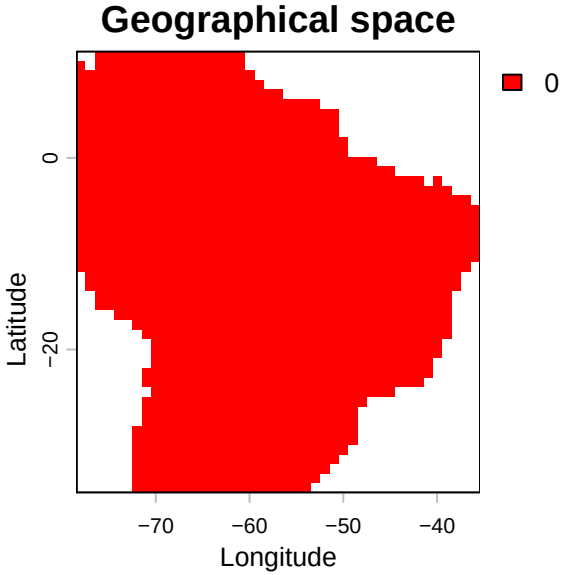
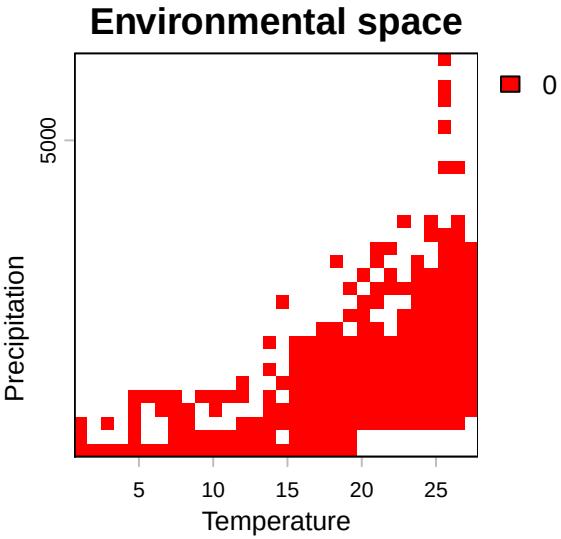

Moran's I
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
500000
1000000
1500000
2000000
Distance

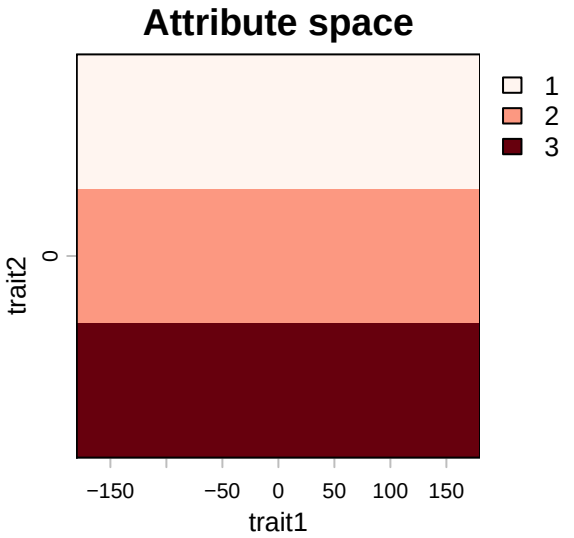

Moran's I
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
500000
1000000
1500000
2000000
Distance

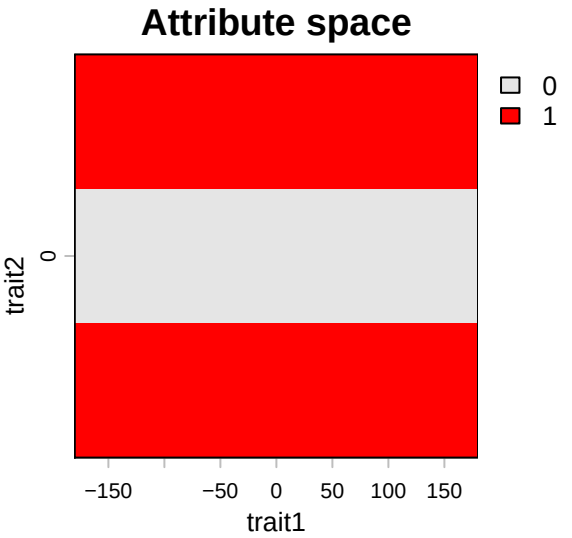

Moran's I
0.2
0.1
0.0
−0.1
−0.2
−0.3
500000
1000000
1500000
2000000
Distance

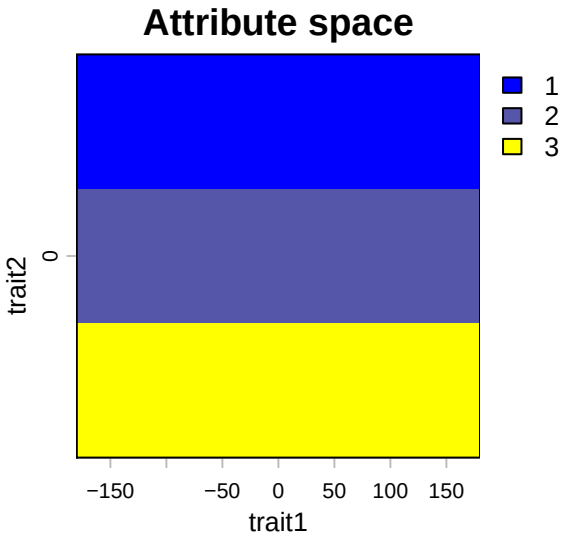

Environmental space
Precipitation
1000
2000
3000
4000
5000
6000
5
10
15
20
25
Temperature
0
2
4
6
8
10
12

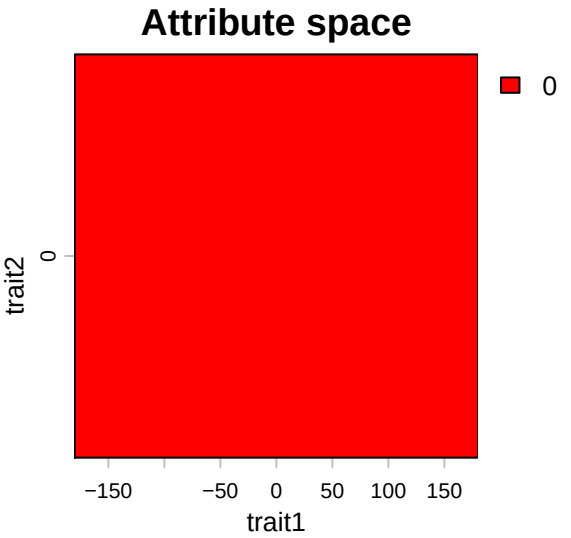

Geographical space
0
Latitude
0
−20
−70
−60
−50
−40
Longitude

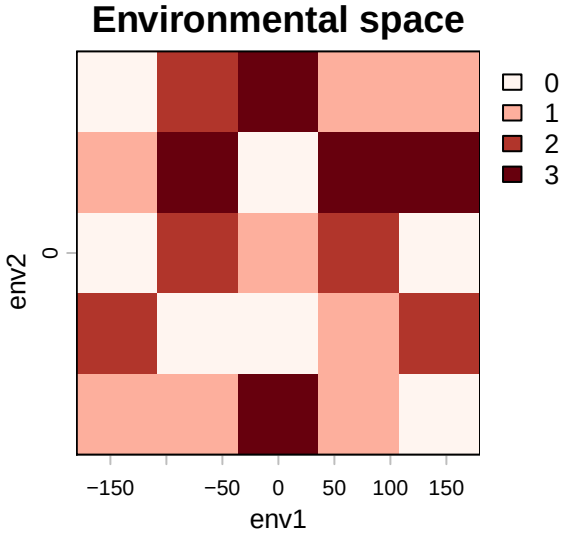

Environmental space
0
Precipitation
5000
5
10
15
20
25
Temperature

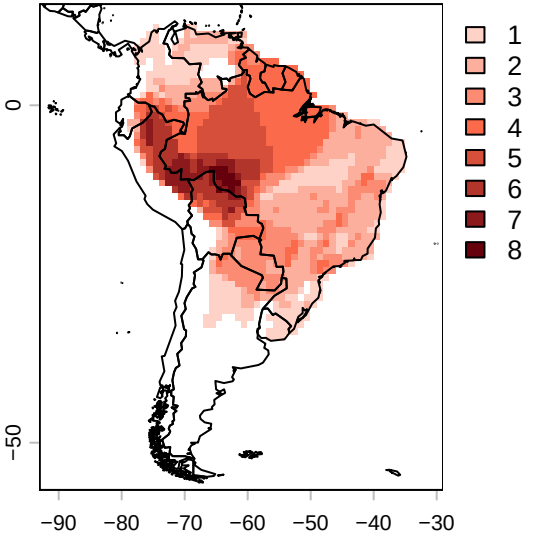

Attribute space
1
2
3
trait2
0
−150
−50
0
50
100
150
trait1

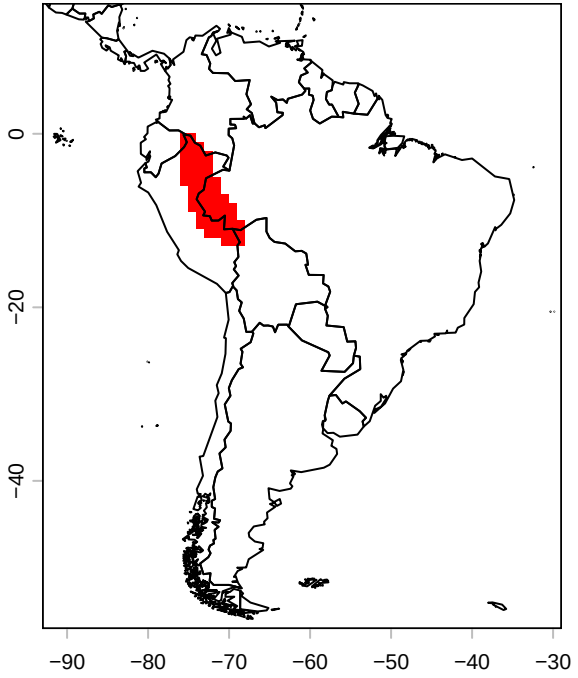

Attribute space
0
1
trait2
0
−150
−50
0
50
100
150
trait1

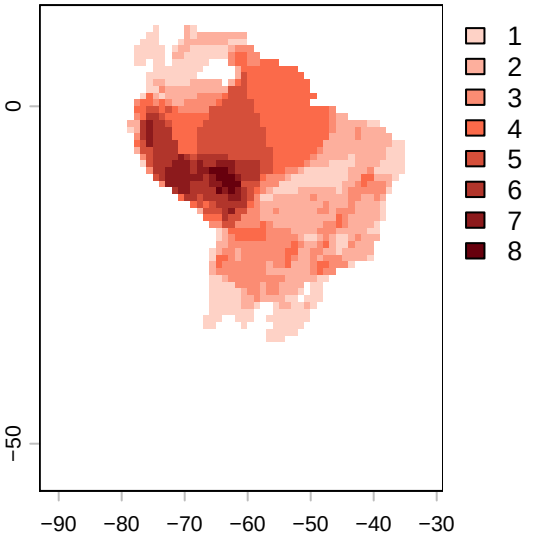

Attribute space
1
2
3
trait2
0
−150
−50
0
50
100
150
trait1

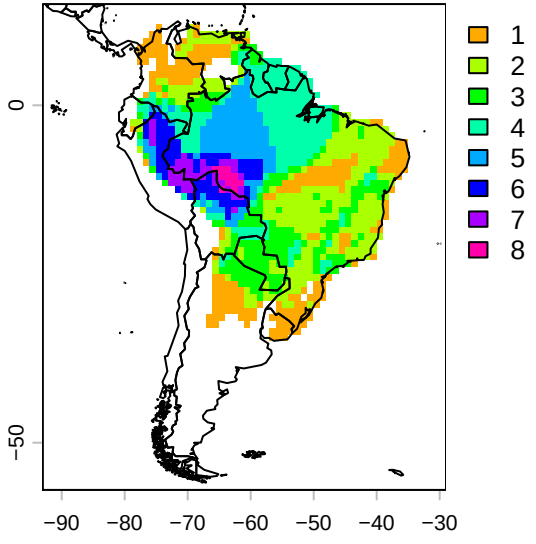

Attribute space
0
trait2
0
−150
−50
0
50
100
150
trait1


Environmental space
0
1
2
3
env2
0
−150
−50
0
50
100
150
env1


1
2
3
4
5
6
7
8
0
−50
−90
−80
−70
−60
−50
−40
−30


0
−20
−40
−90
−80
−70
−60
−50
−40
−30


0
−50
−90
−80
−70
−60
−50
−40
−30
1
2
3
4
5
6
7
8


0
−50
−90
−80
−70
−60
−50
−40
−30
1
2
3
4
5
6
7
8