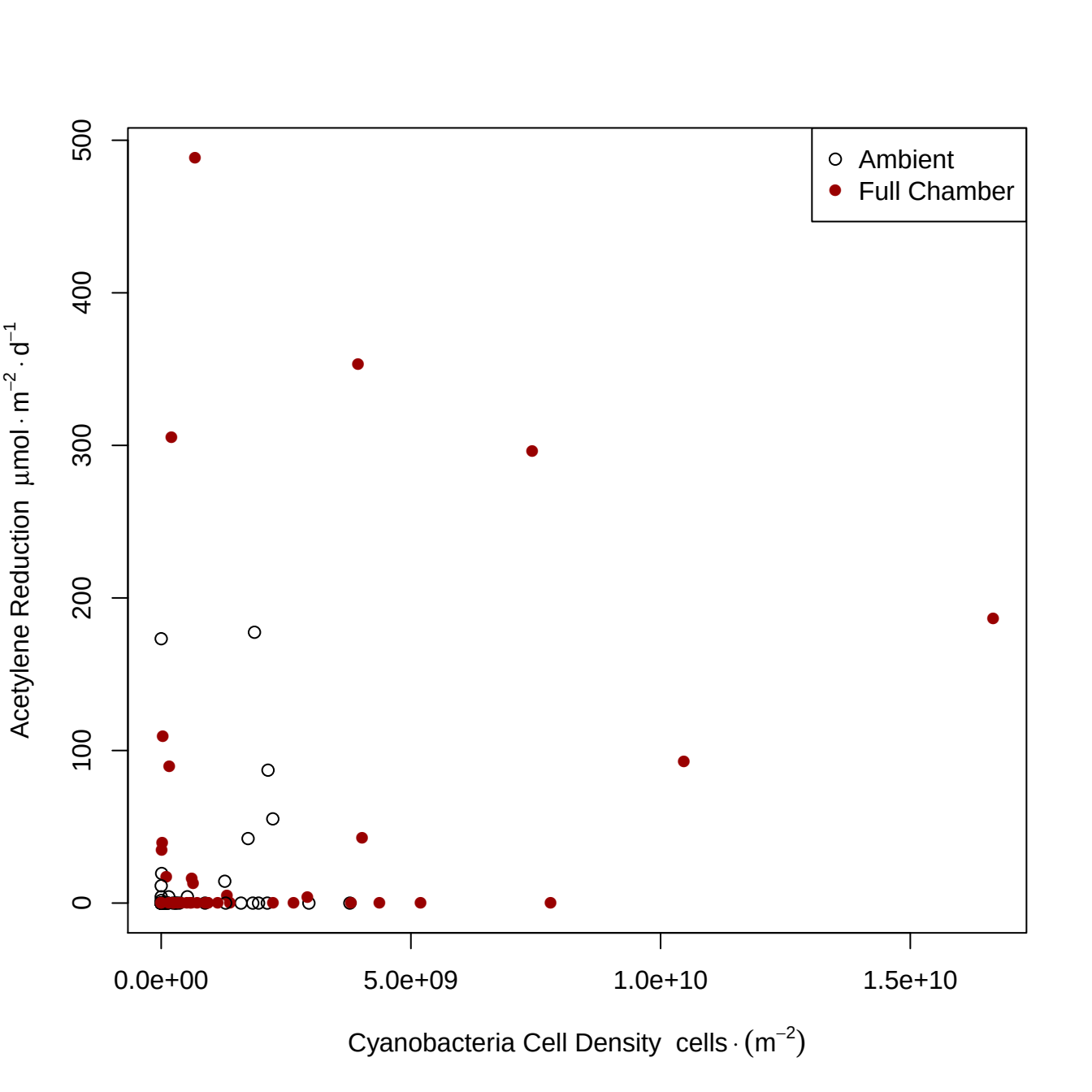
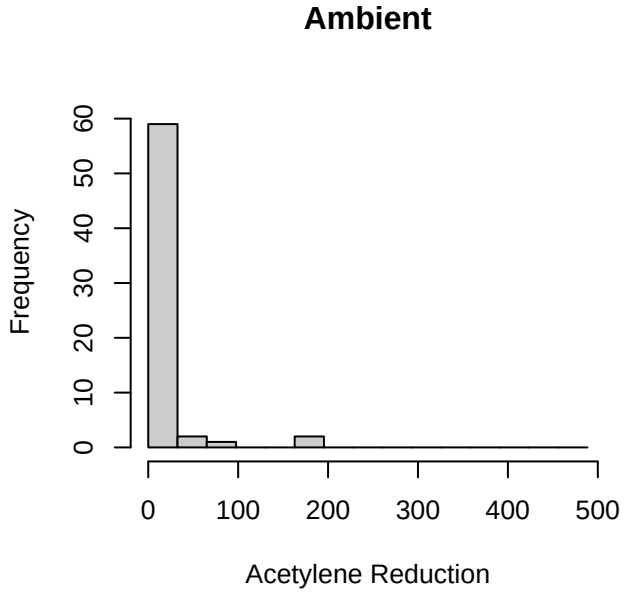
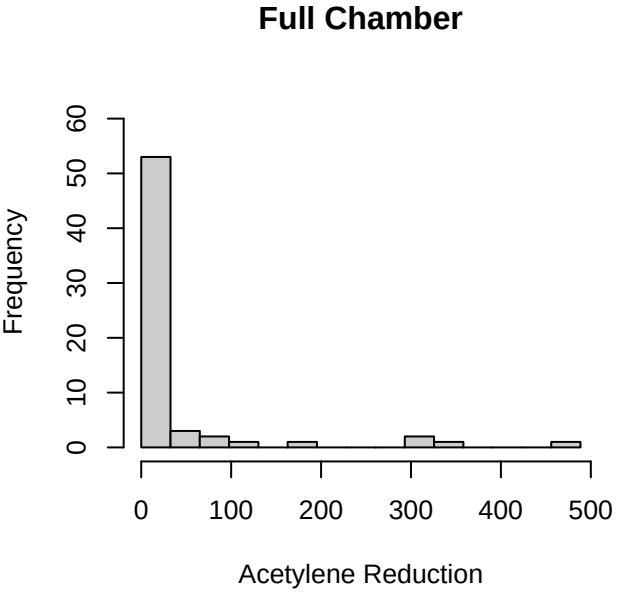
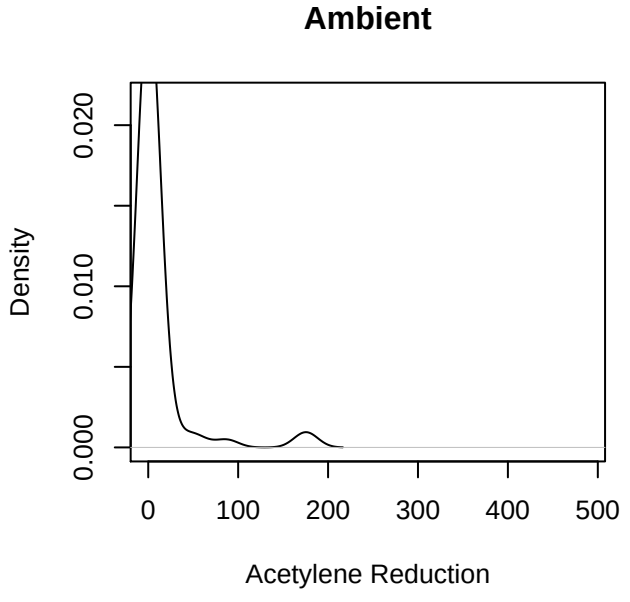
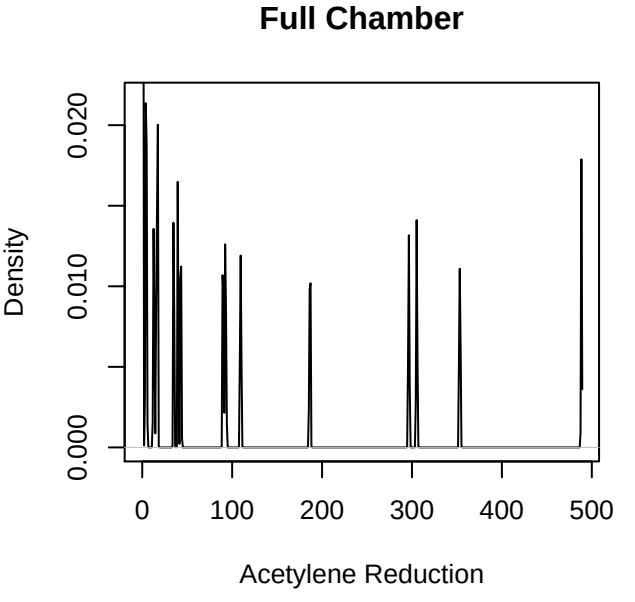
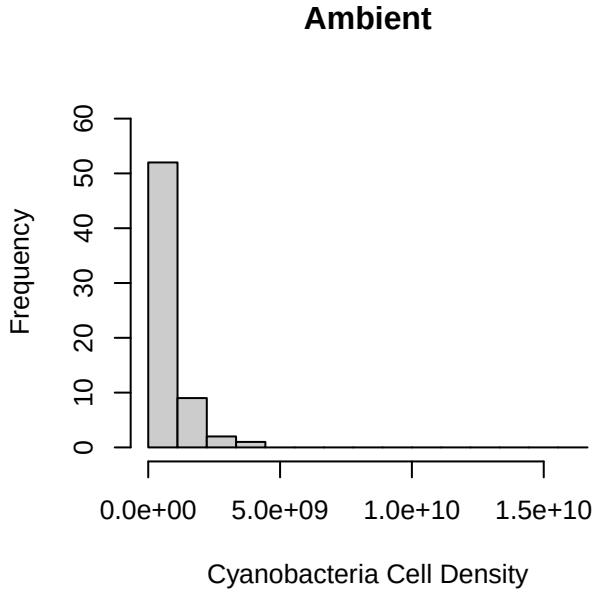

Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
100
200
300
400
500
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density cells · (m^{-2})

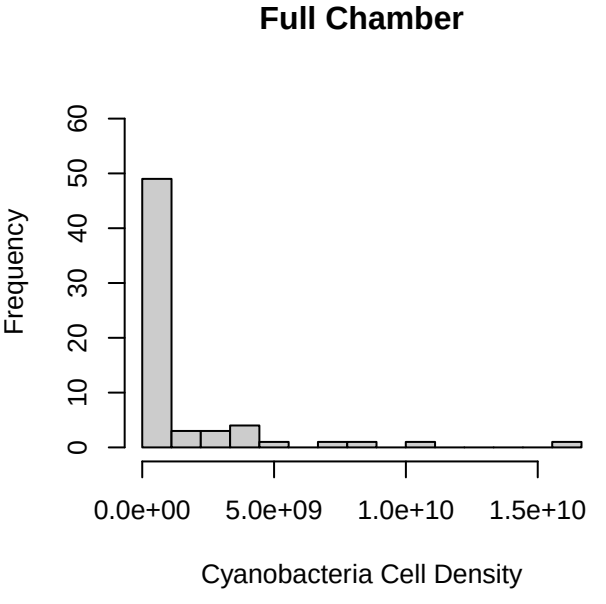

Ambient
Frequency
0
10
20
30
40
50
60
0
100
200
300
400
500
Acetylene Reduction

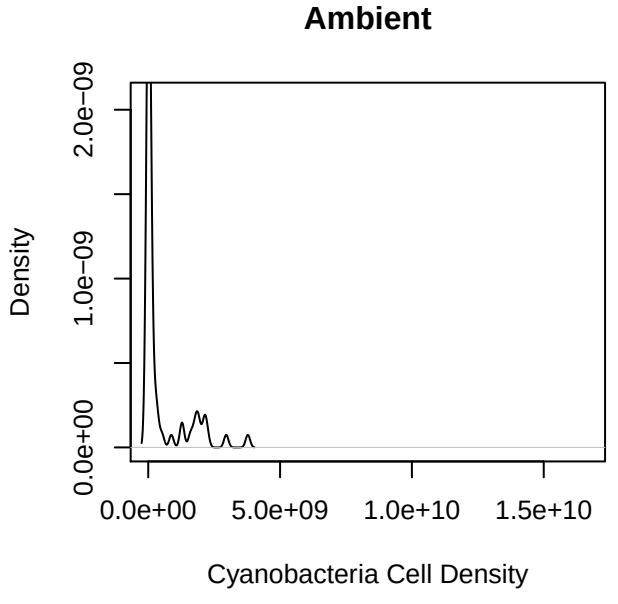

Full Chamber
Frequency
0
10
20
30
40
50
60
0
100
200
300
400
500
Acetylene Reduction

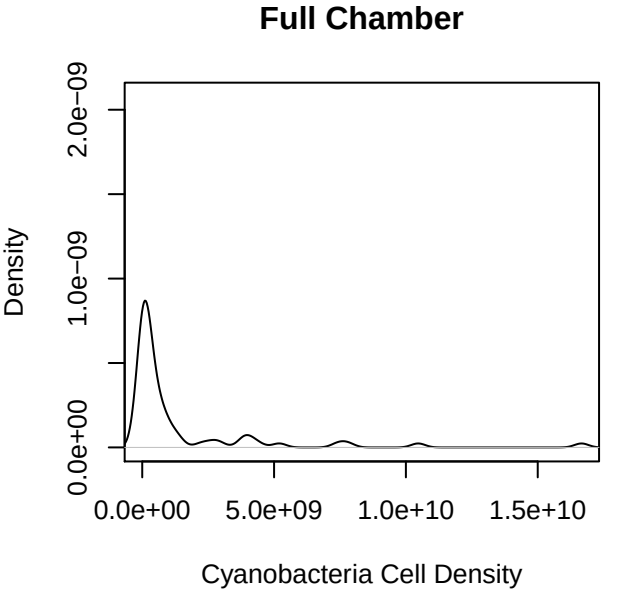

Ambient
Density
0.000
0.010
0.020
0
100
200
300
400
500
Acetylene Reduction

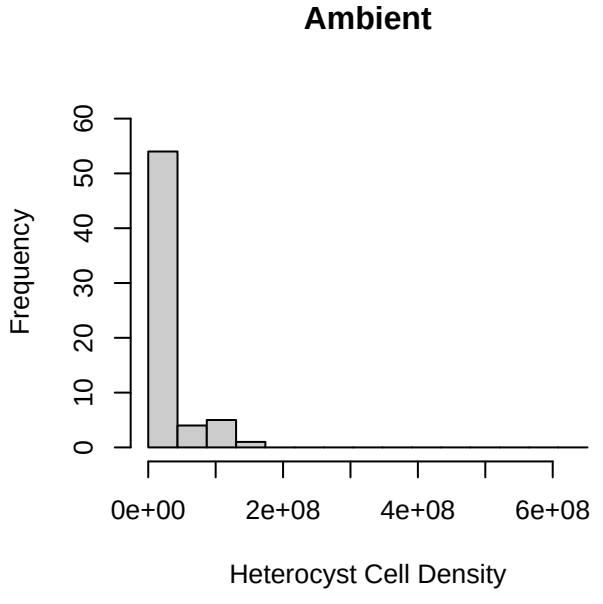

Full Chamber
Density
0.000
0.010
0.020
0
100
200
300
400
500
Acetylene Reduction

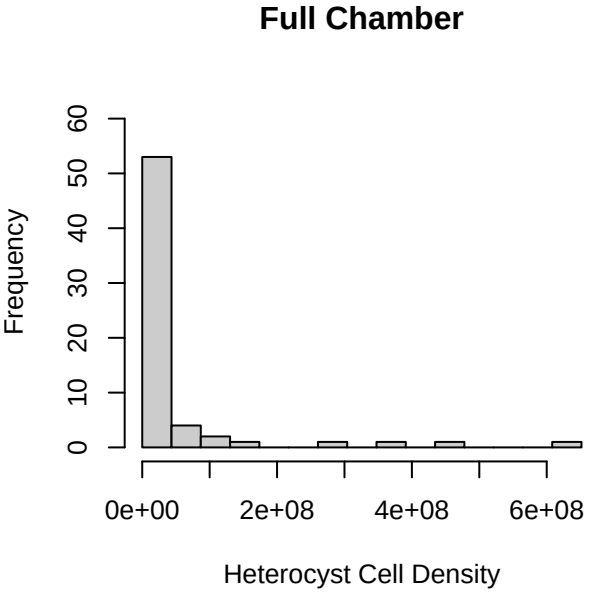

Ambient
Frequency
0
10
20
30
40
50
60
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density

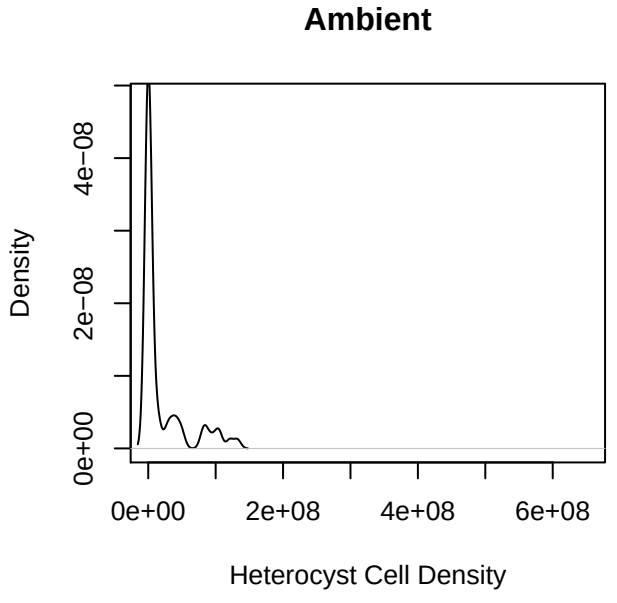

Full Chamber
Frequency
0
10
20
30
40
50
60
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density

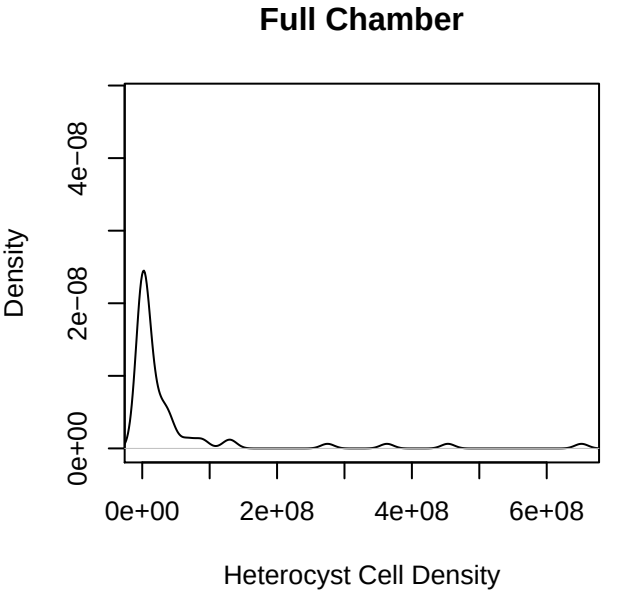

Ambient
Density
0.0e+00
1.0e−09
2.0e−09
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density

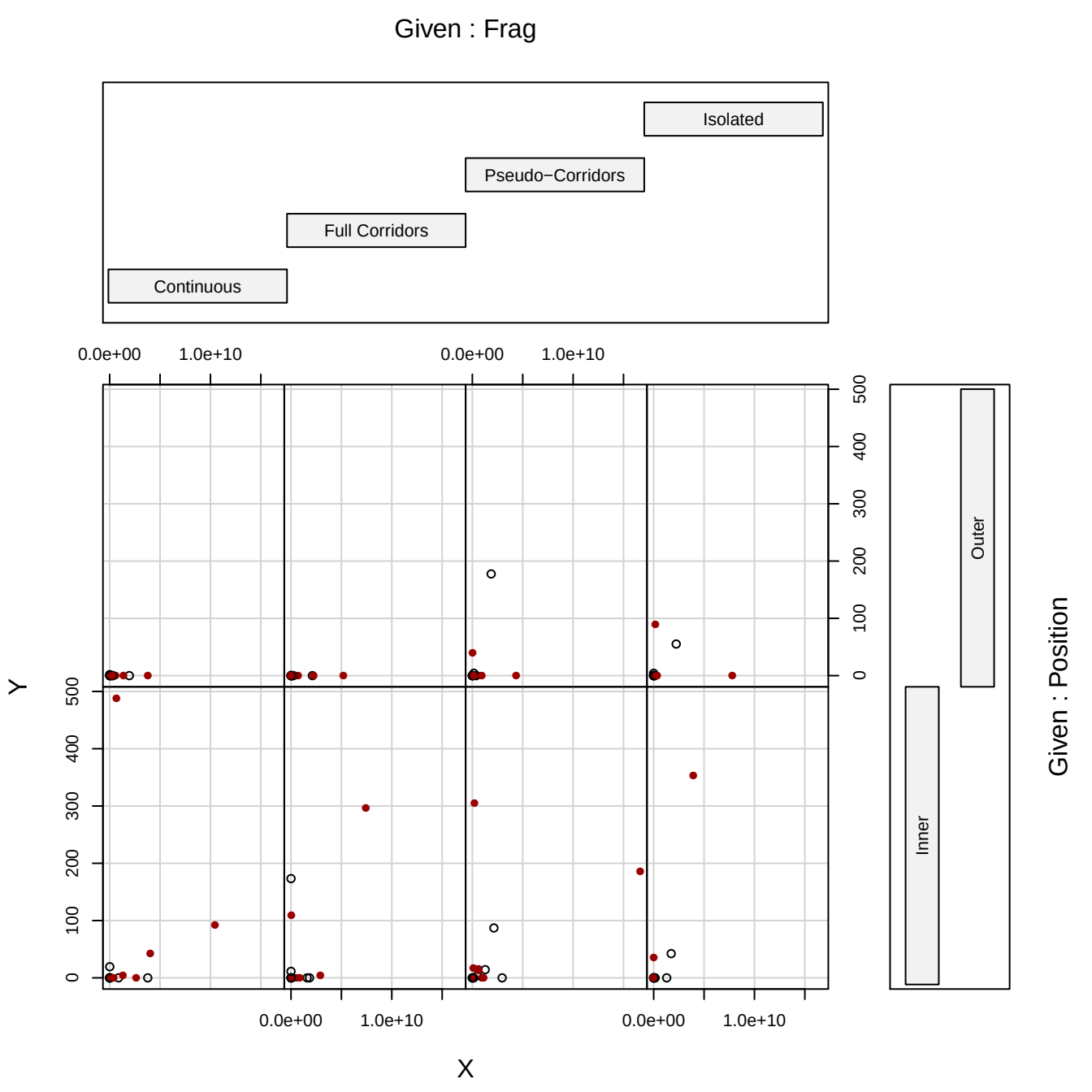

Full Chamber
Density
0.0e+00
1.0e−09
2.0e−09
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density


Ambient
Frequency
0
10
20
30
40
50
60
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

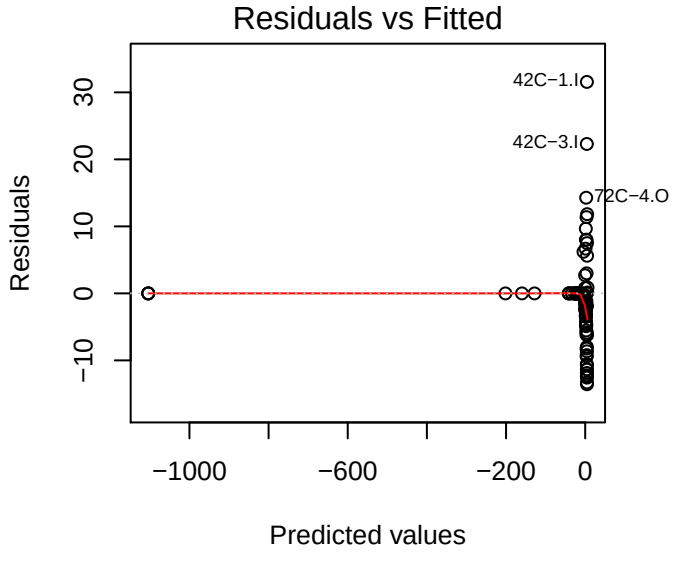

Full Chamber
Frequency
0
10
20
30
40
50
60
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

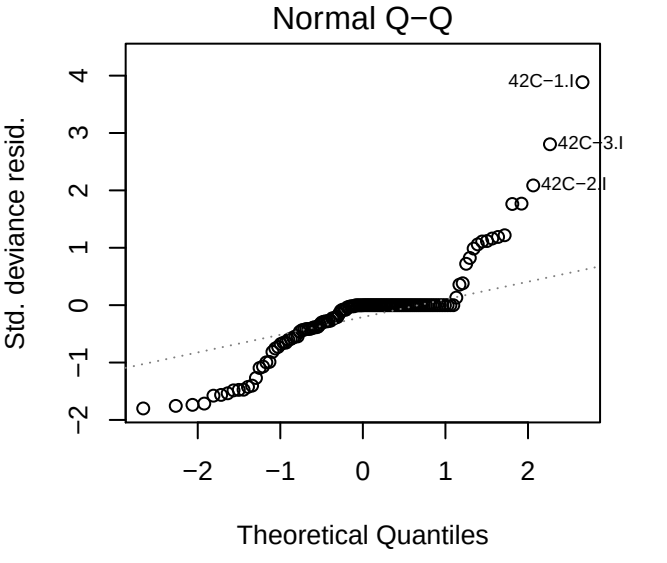

Ambient
Density
0e+00
2e−08
4e−08
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

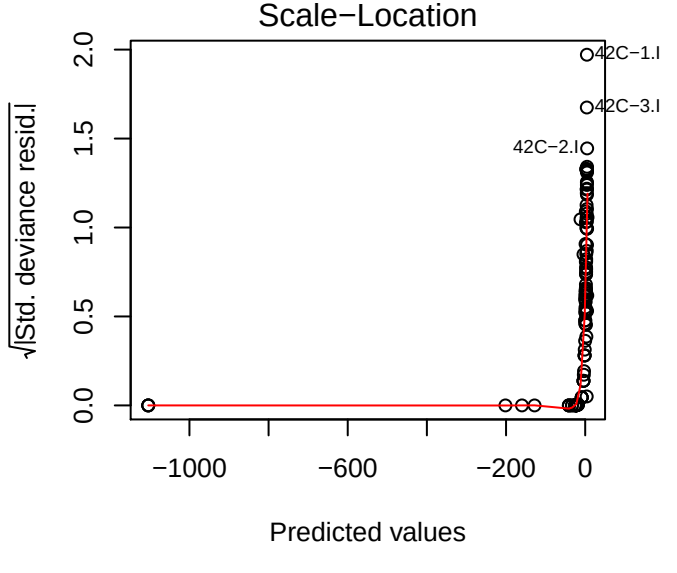

Full Chamber
Density
0e+00
2e−08
4e−08
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

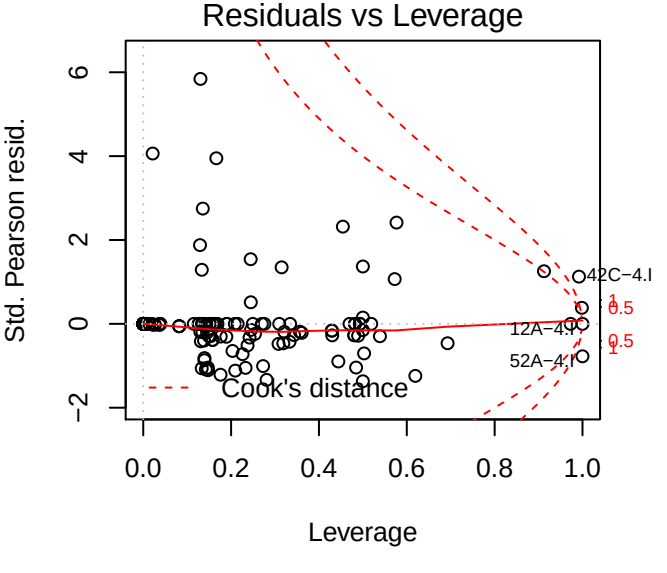

Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous
0.0e+00
1.0e+10
0.0e+00
1.0e+10
0
100
200
300
400
500
Y
0.0e+00
1.0e+10
0.0e+00
1.0e+10
X
Outer
Inner
Given : Position

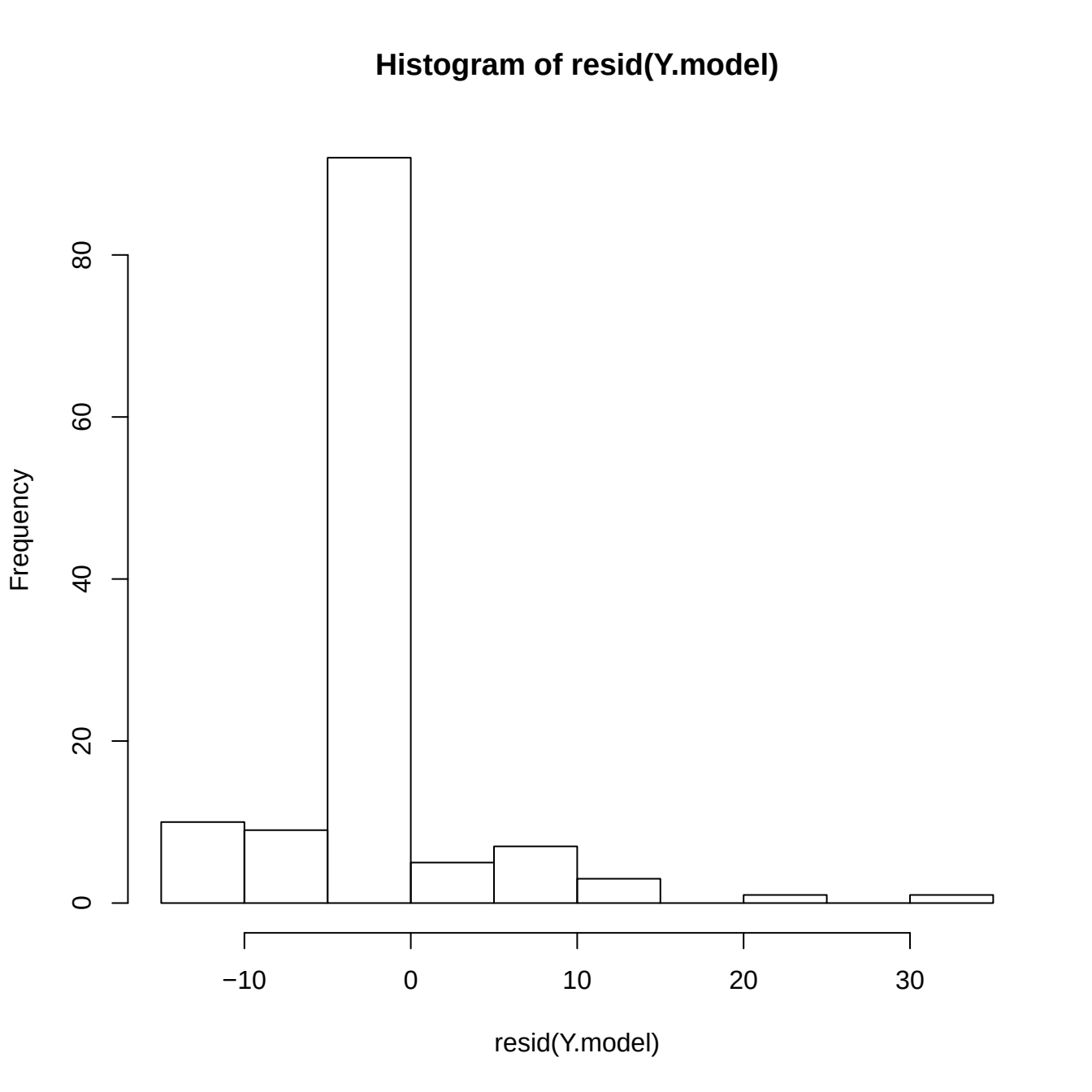
Given : Chamber
Full Chamber
Ambient
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Y
0
100
300
500
X
Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous

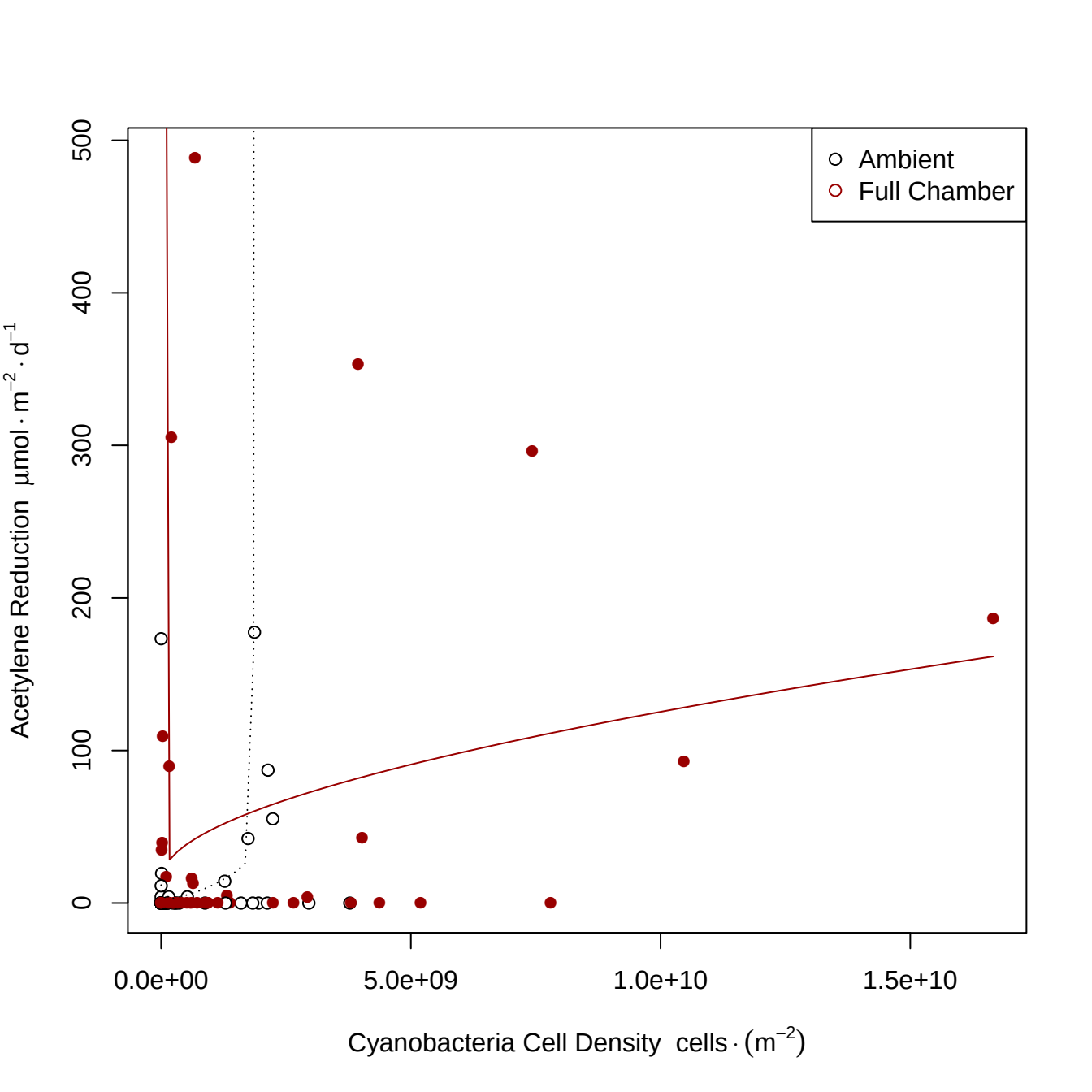

Residuals vs Fitted
Residuals
Predicted values
42C−1.I
42C−3.I
72C−4.O
30
20
10
0
−10
−1000
−600
−200
0

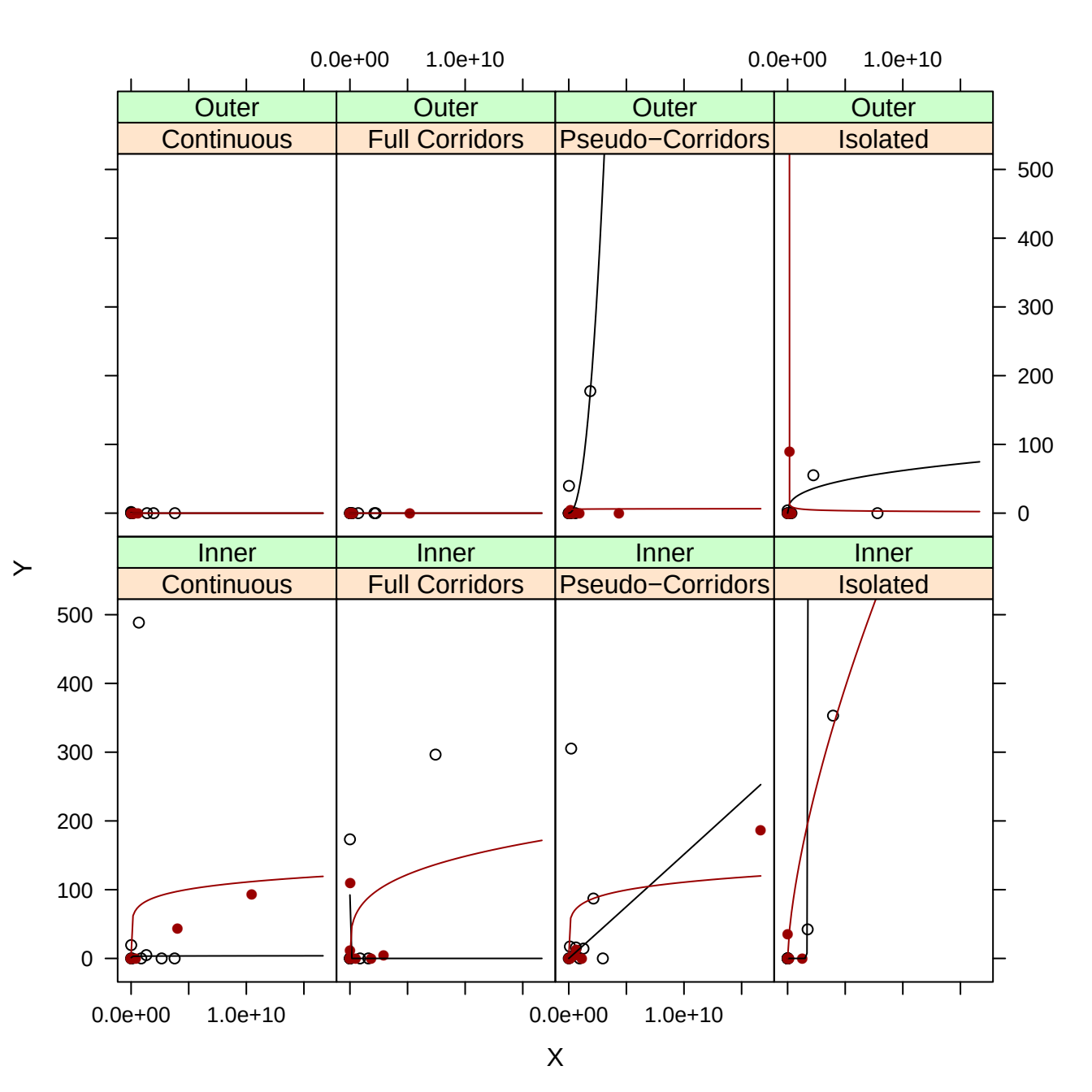

Normal Q−Q
Std. deviance resid.
Theoretical Quantiles
42C−1.I
42C−3.I
42C−2.I
4
3
2
1
0
−1
−2


Scale−Location
√|Std. deviance resid.|
Predicted values
42C−1.I
42C−3.I
42C−2.I
2.0
1.5
1.0
0.5
0.0
−1000
−600
−200
0


Residuals vs Leverage
Std. Pearson resid.
Leverage
Cook's distance
42C−4.I
12A−4.I
52A−4.I
6
4
2
0
−2
0.0
0.2
0.4
0.6
0.8
1.0


Histogram of resid(Y.model)
Frequency
0
20
40
60
80
−10
0
10
20
30
resid(Y.model)


Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
100
200
300
400
500
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density cells · (m^{-2})


Outer
Continuous
Outer
Full Corridors
Outer
Pseudo−Corridors
Outer
Isolated
Inner
Continuous
Inner
Full Corridors
Inner
Pseudo−Corridors
Inner
Isolated
0.0e+00
1.0e+10
0
100
200
300
400
500
Y
X