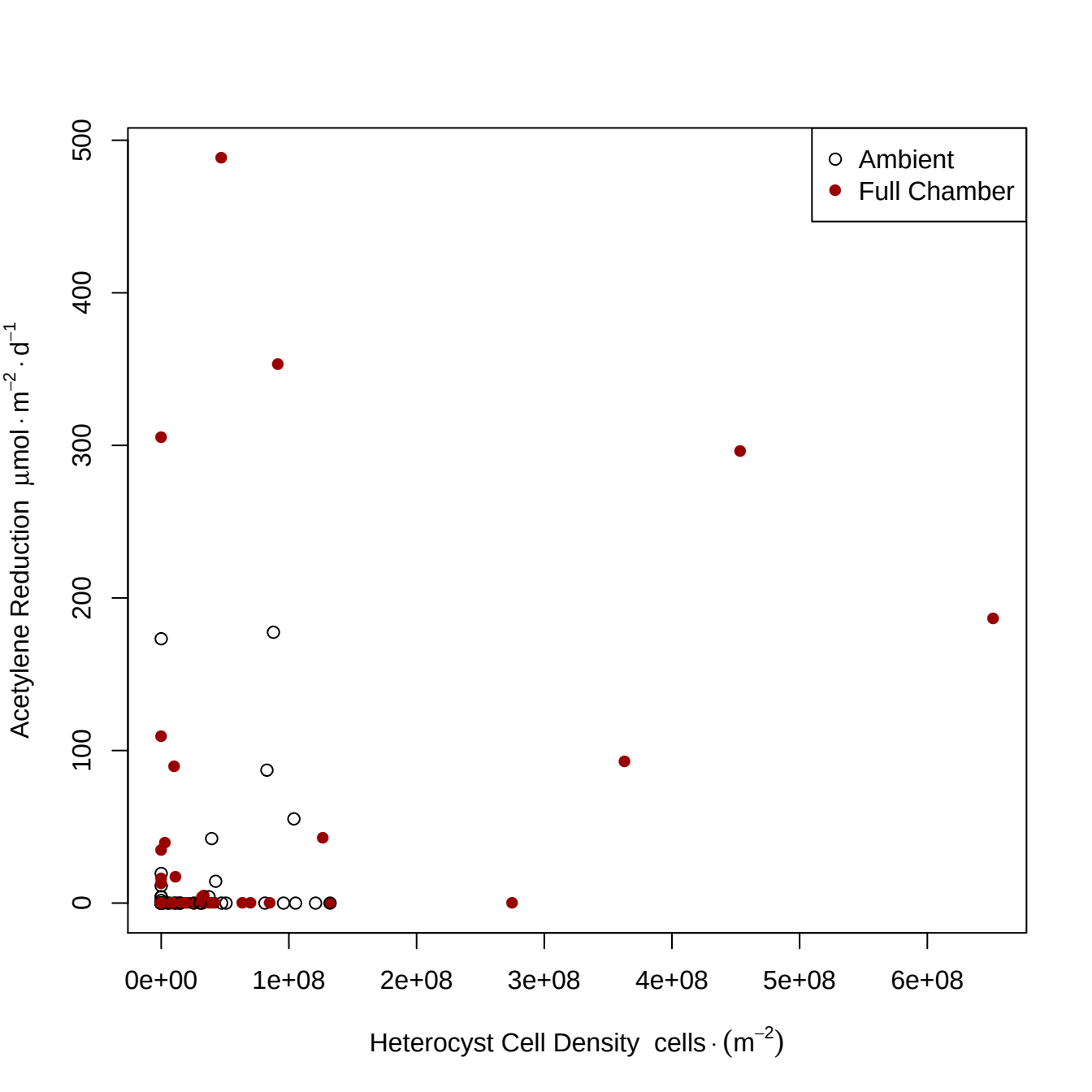
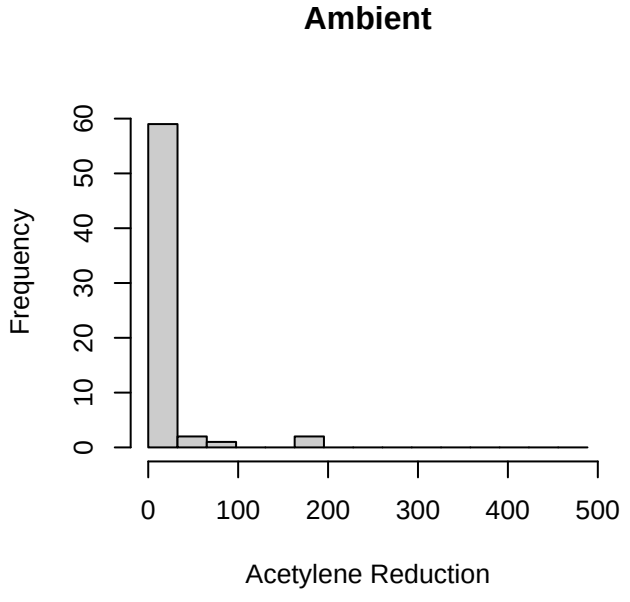
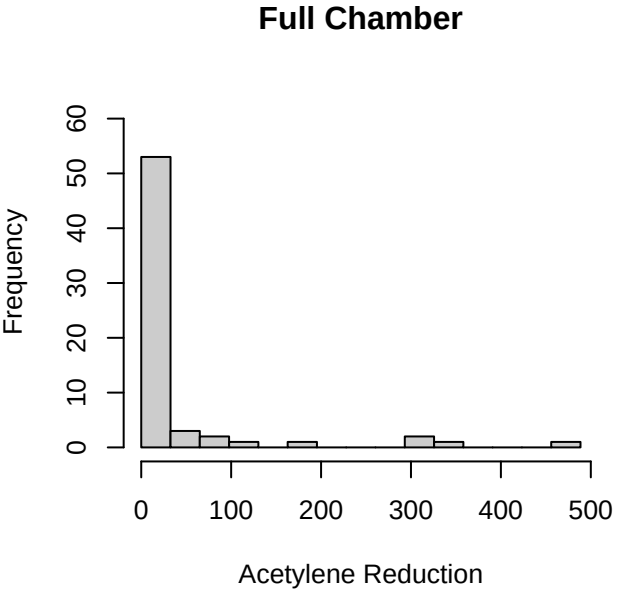
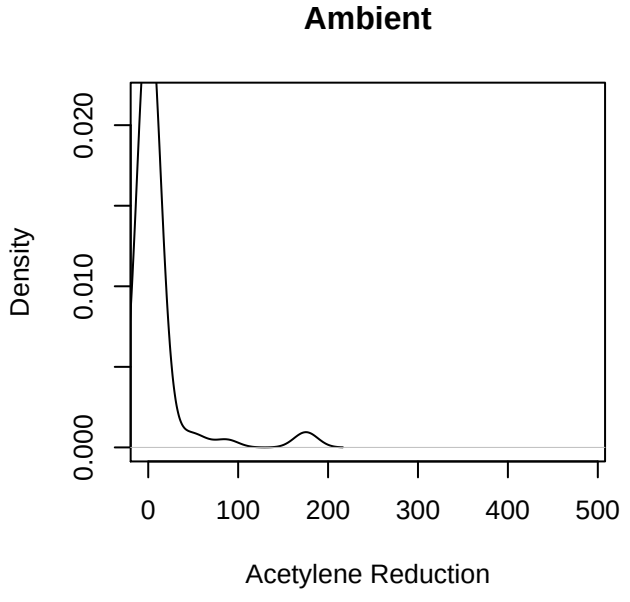
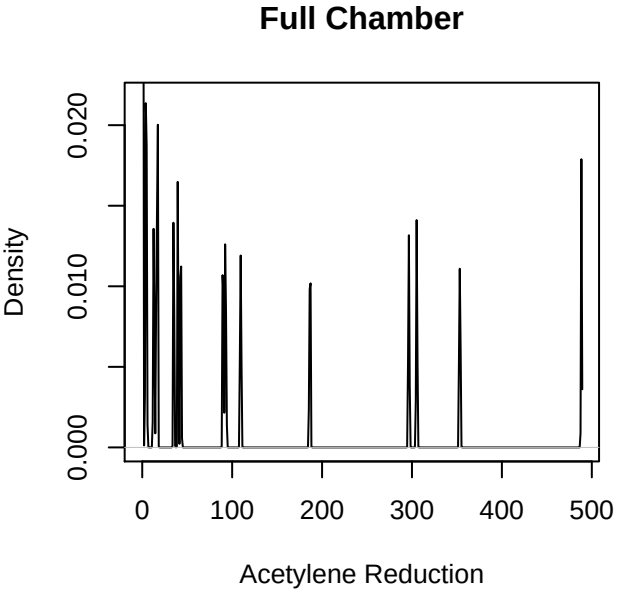
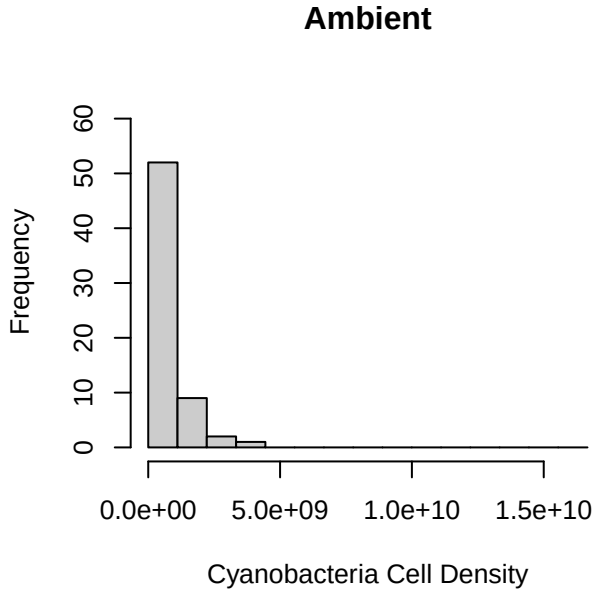

Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
100
200
300
400
500
0e+00
1e+08
2e+08
3e+08
4e+08
5e+08
6e+08
Heterocyst Cell Density cells · (m^{-2})

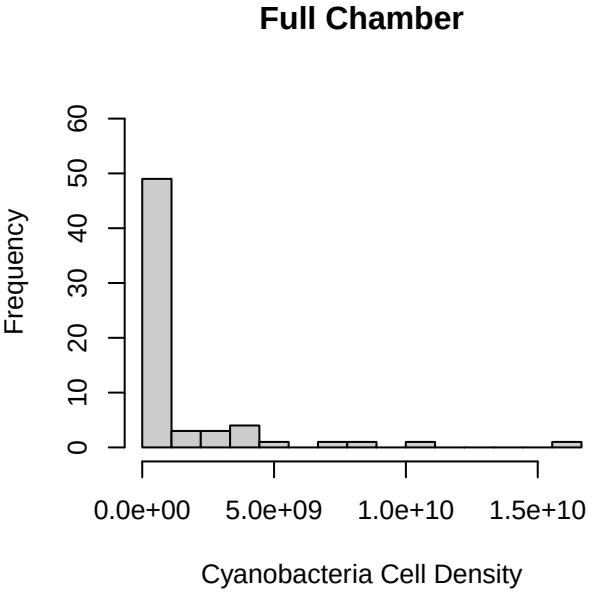

Ambient
Frequency
0
10
20
30
40
50
60
0
100
200
300
400
500
Acetylene Reduction

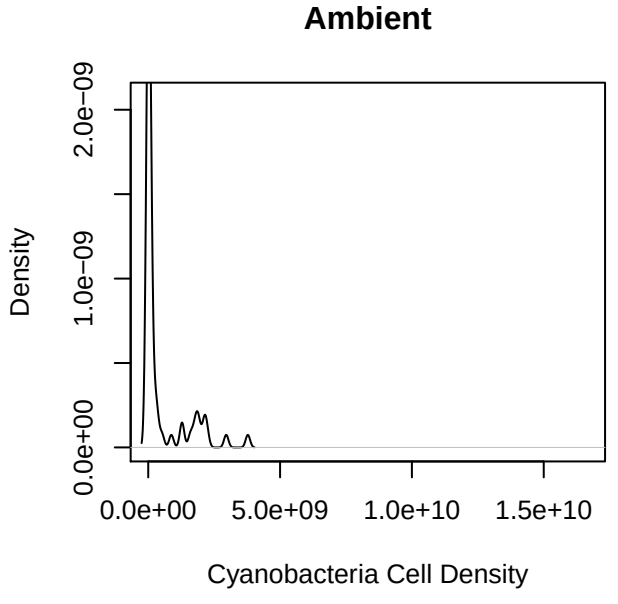

Full Chamber
Frequency
0
10
20
30
40
50
60
0
100
200
300
400
500
Acetylene Reduction

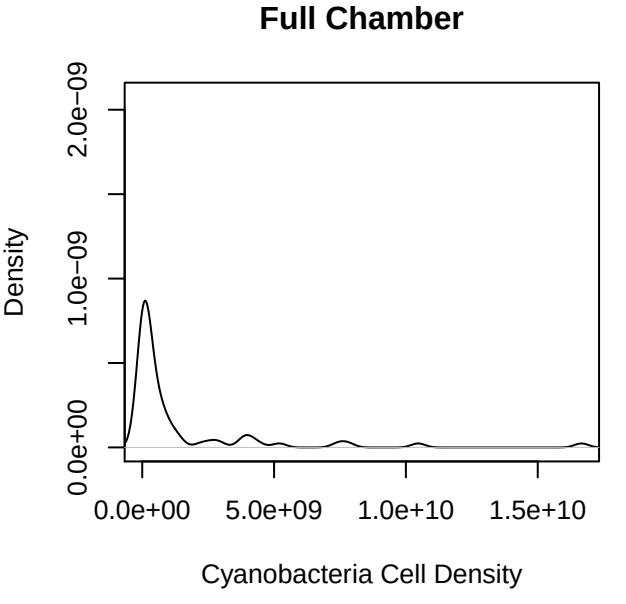

Ambient
Density
0.000
0.010
0.020
0
100
200
300
400
500
Acetylene Reduction

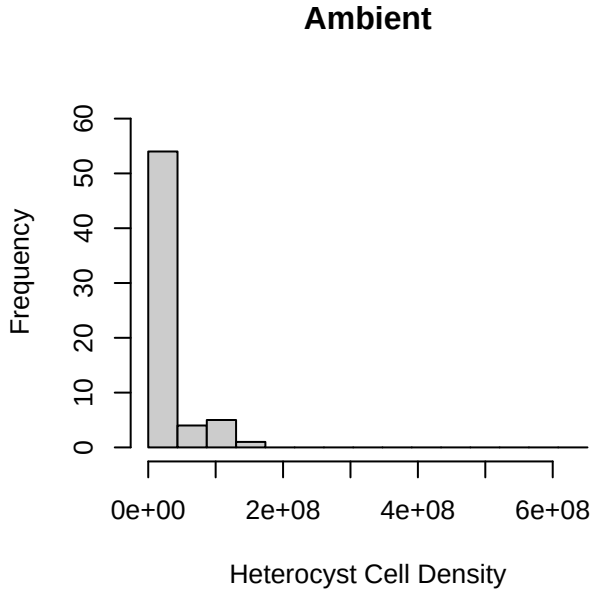

Full Chamber
Density
0.000
0.010
0.020
0
100
200
300
400
500
Acetylene Reduction

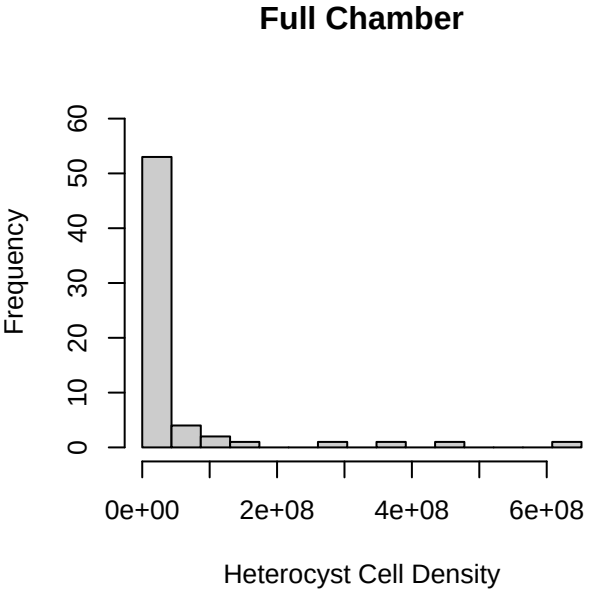

Ambient
Frequency
0
10
20
30
40
50
60
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density

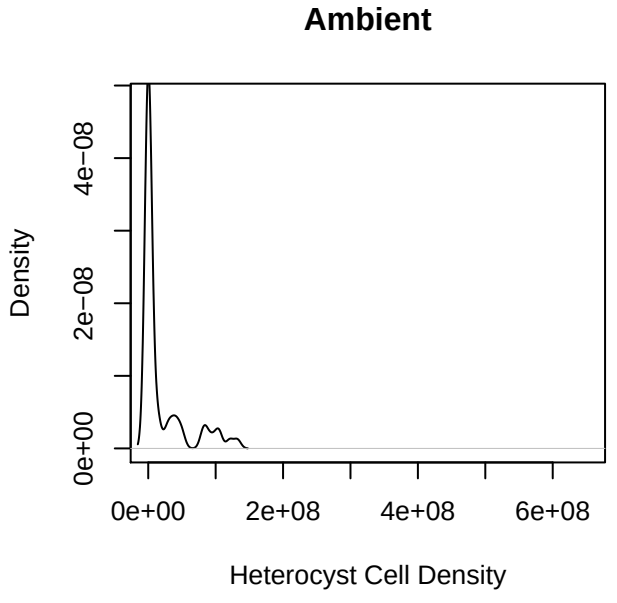

Full Chamber
Frequency
0
10
20
30
40
50
60
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density

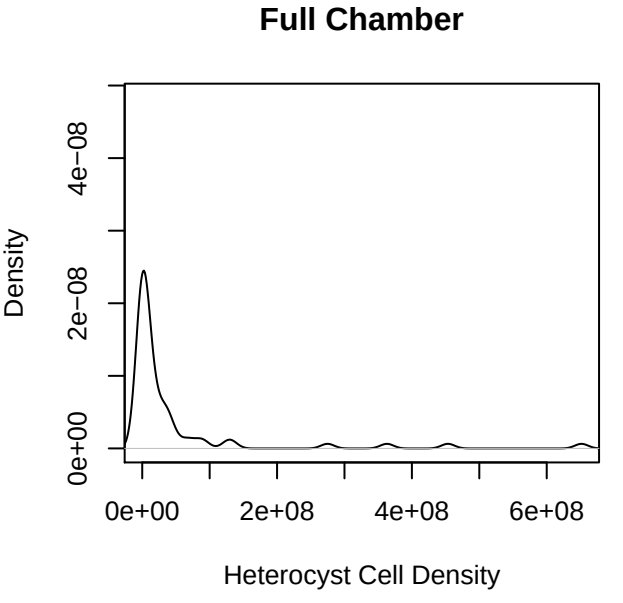

Ambient
Density
0.0e+00
1.0e−09
2.0e−09
0.0e+00
5.0e+09
1.0e+10
1.5e+10
Cyanobacteria Cell Density


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

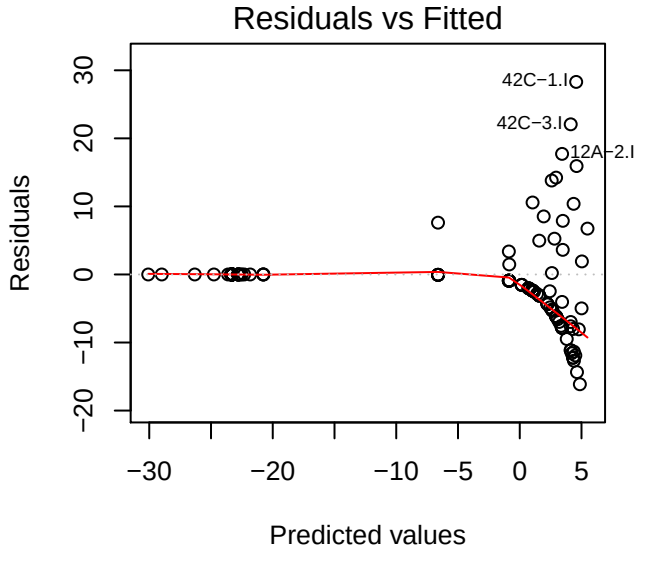

Full Chamber
Frequency
0
10
20
30
40
50
60
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

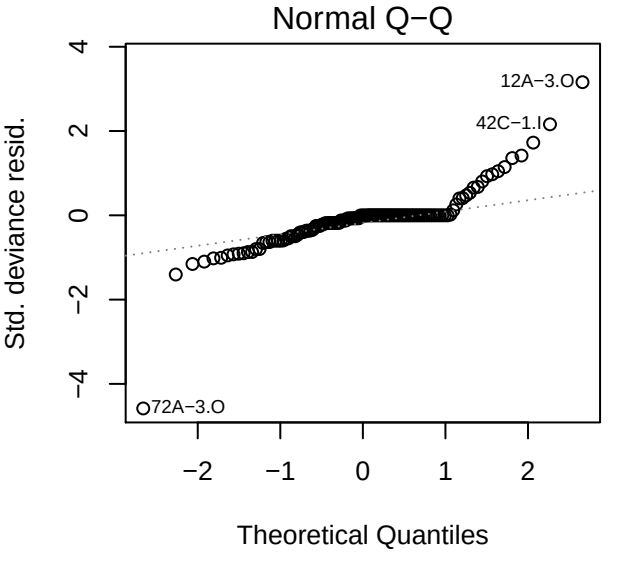

Ambient
Density
0e+00
2e−08
4e−08
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

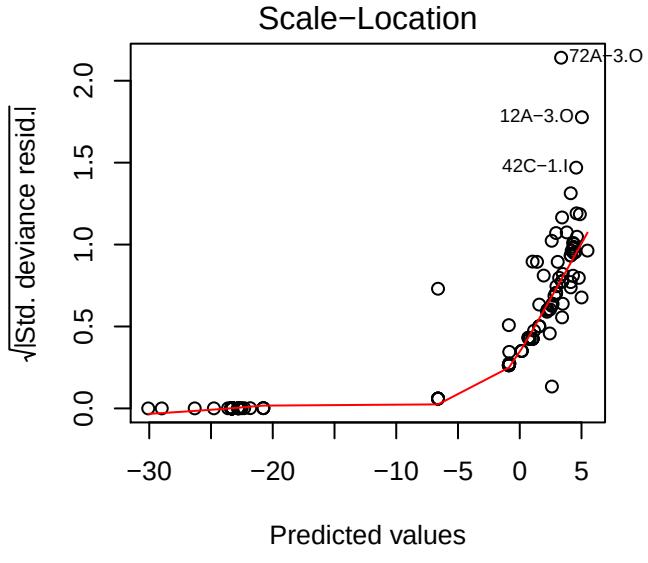

Full Chamber
Density
0e+00
2e−08
4e−08
0e+00
2e+08
4e+08
6e+08
Heterocyst Cell Density

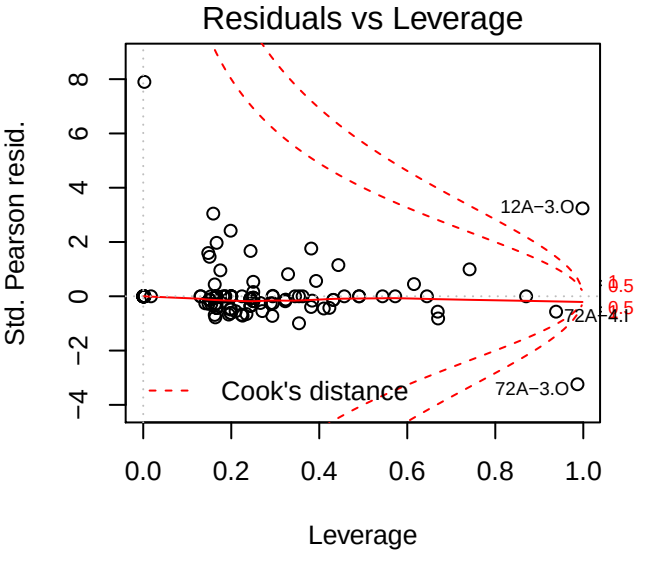
Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous
0e+00
3e+08
6e+08
0
100
200
300
400
500
Y
X
Outer
Inner
Given : Position

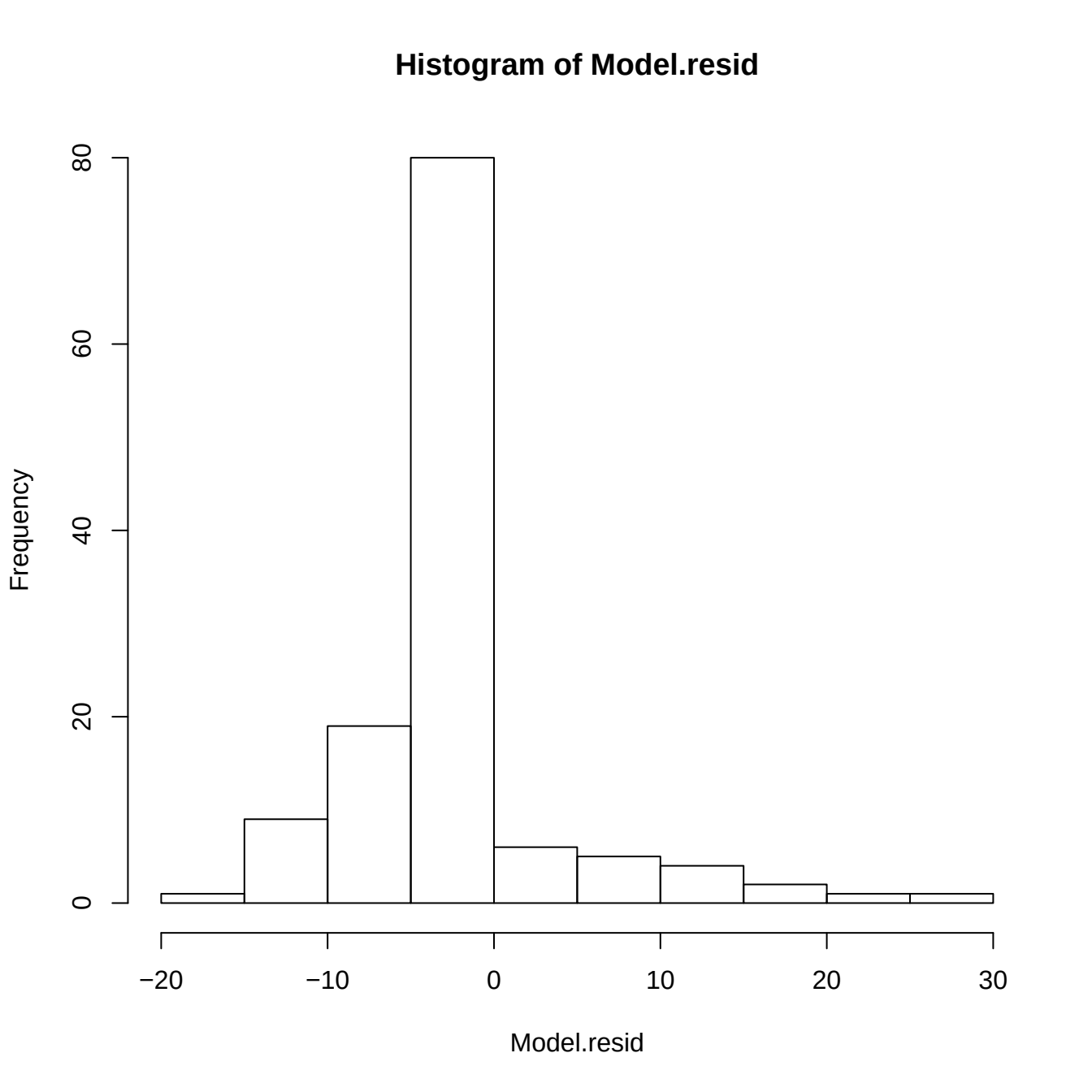
Given : Chamber
Full Chamber
Ambient
0e+00
2e+08
4e+08
6e+08
Y
0
100
300
500
X
Given : Frag
Continuous
Full Corridors
Pseudo−Corridors
Isolated


Residuals vs Fitted
Residuals
Predicted values
42C−1.I
42C−3.I
12A−2.I
30
20
10
0
−10
−20
−30
−20
−10
−5
0
5

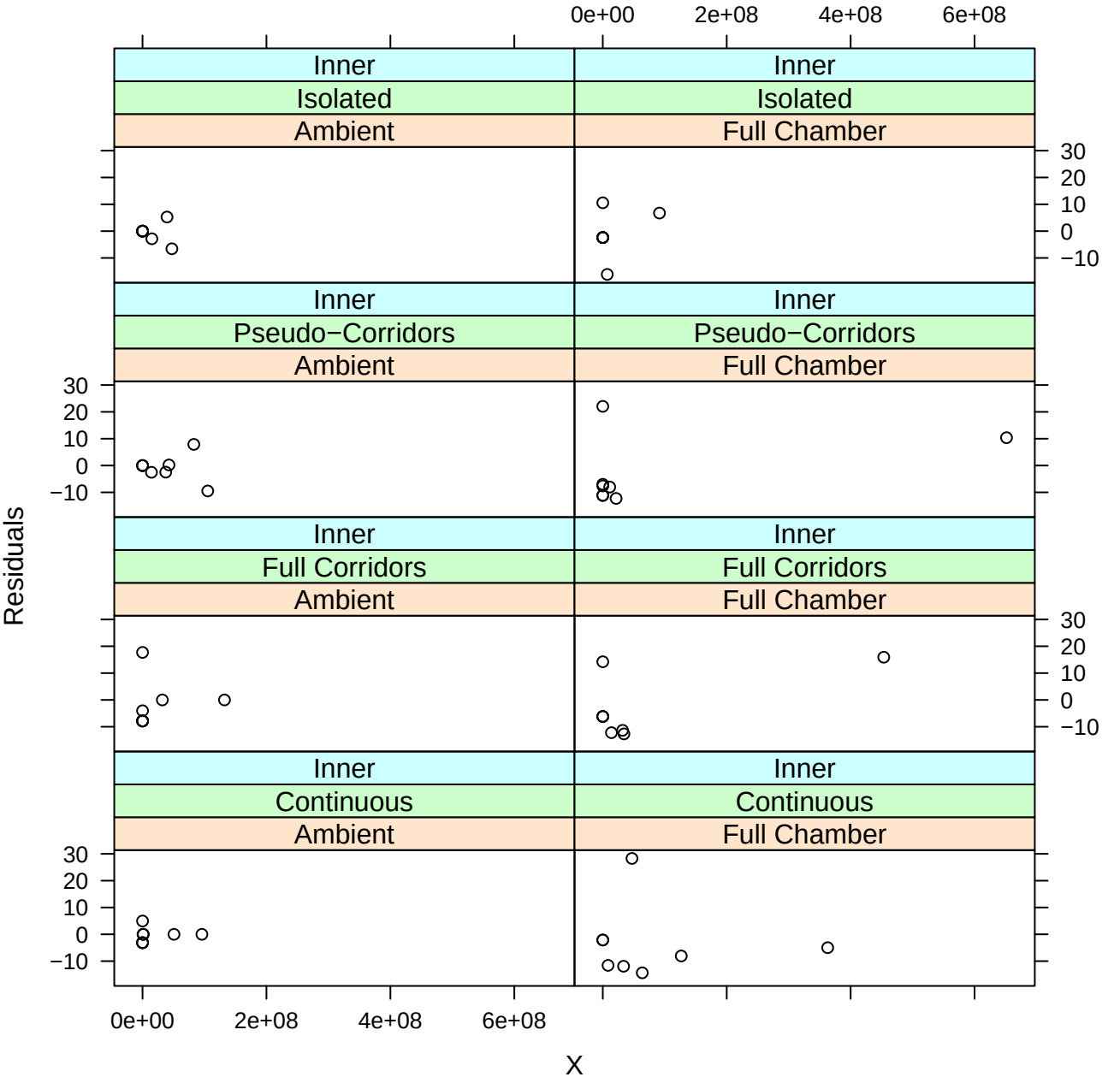

Normal Q−Q
Std. deviance resid.
Theoretical Quantiles
12A−3.O
42C−1.I
72A−3.O
4
2
0
−2
−4
−2
−1
0
1
2

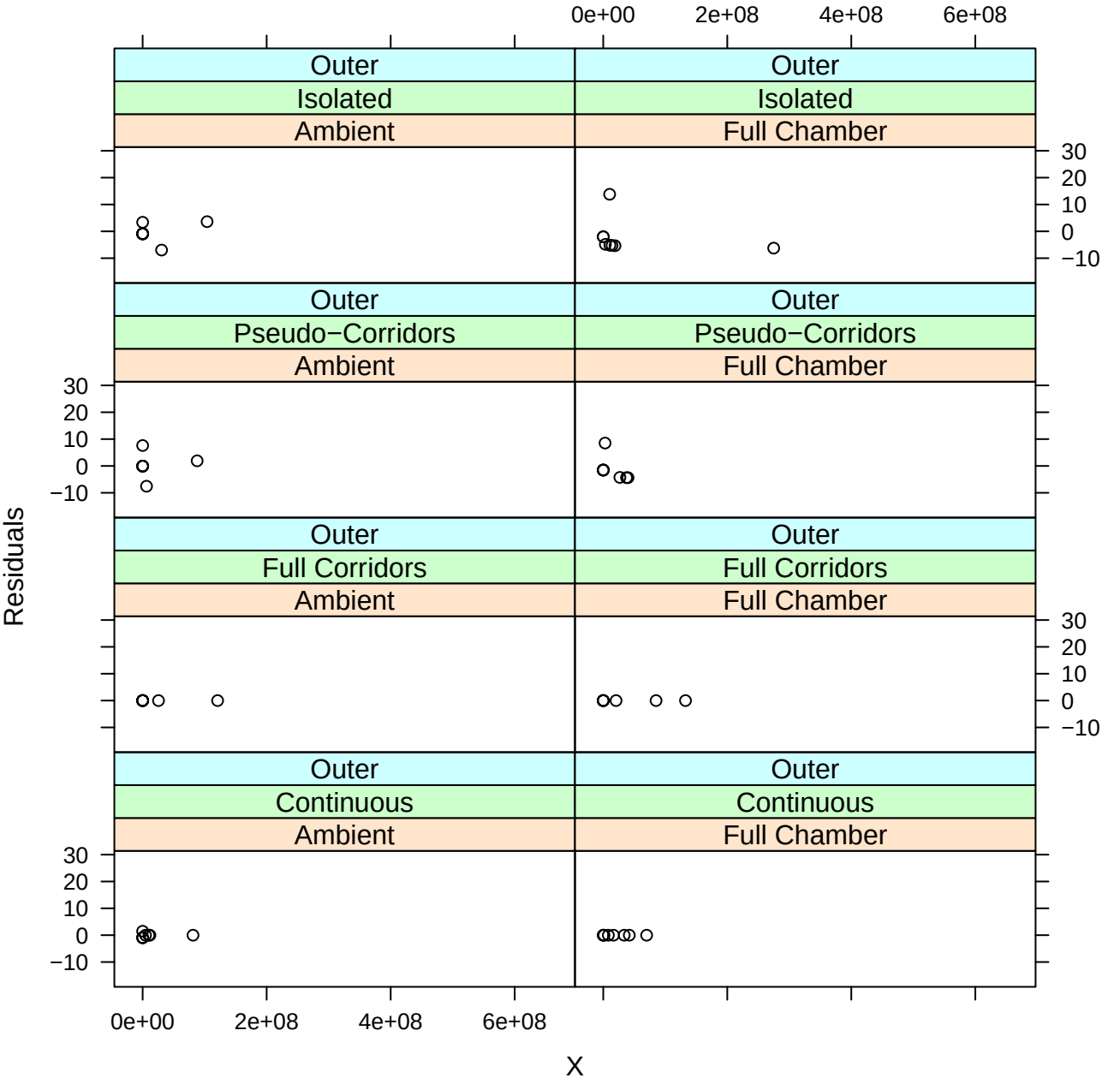

Scale−Location
√|Std. deviance resid.|
Predicted values
72A−3.O
12A−3.O
42C−1.I
2.0
1.5
1.0
0.5
0.0
−30
−20
−10
−5
0
5

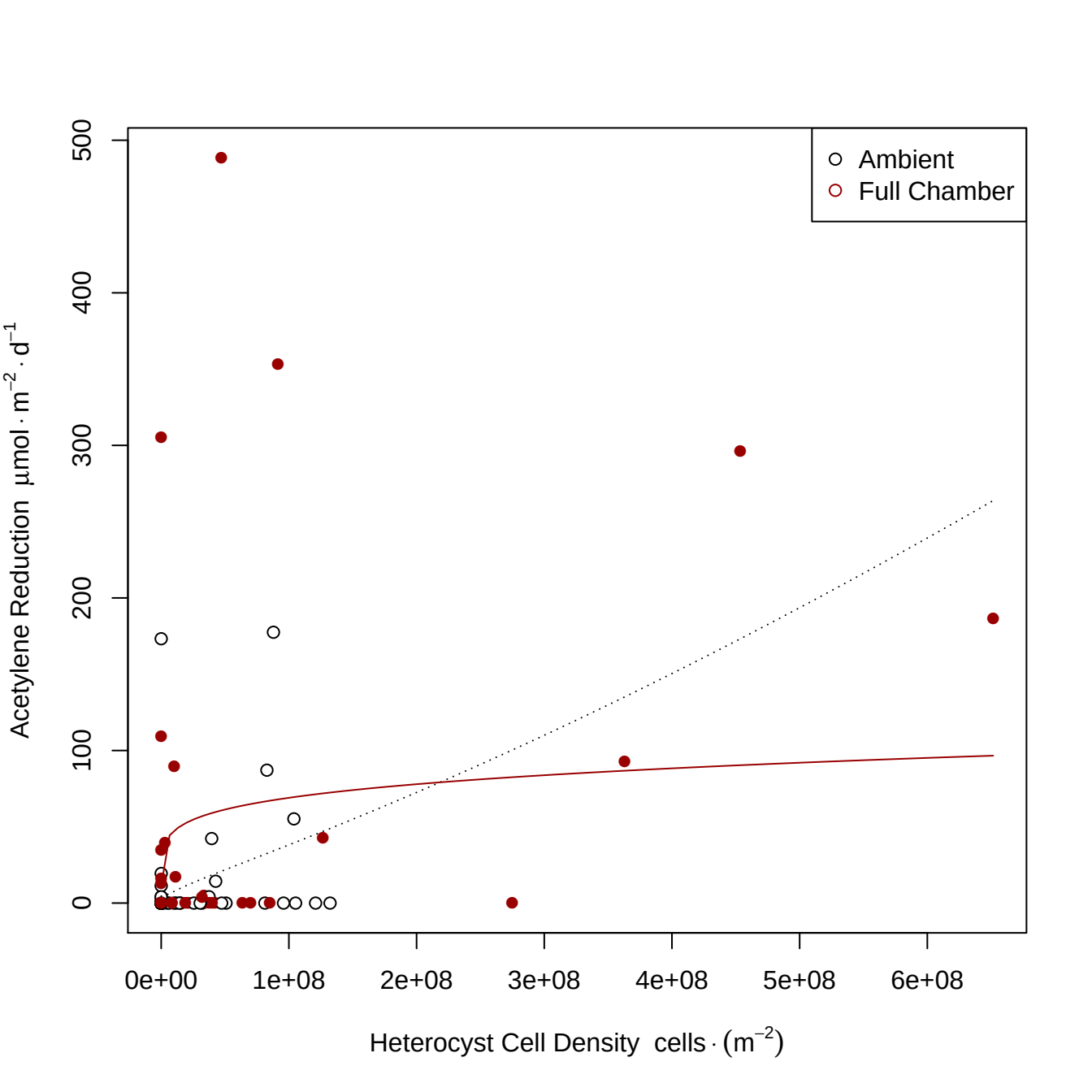

Residuals vs Leverage
Std. Pearson resid.
Leverage
12A−3.O
72A−4.I
72A−3.O
Cook's distance
1
0.5
0.5
8
6
4
2
0
−2
−4
0.0
0.2
0.4
0.6
0.8
1.0

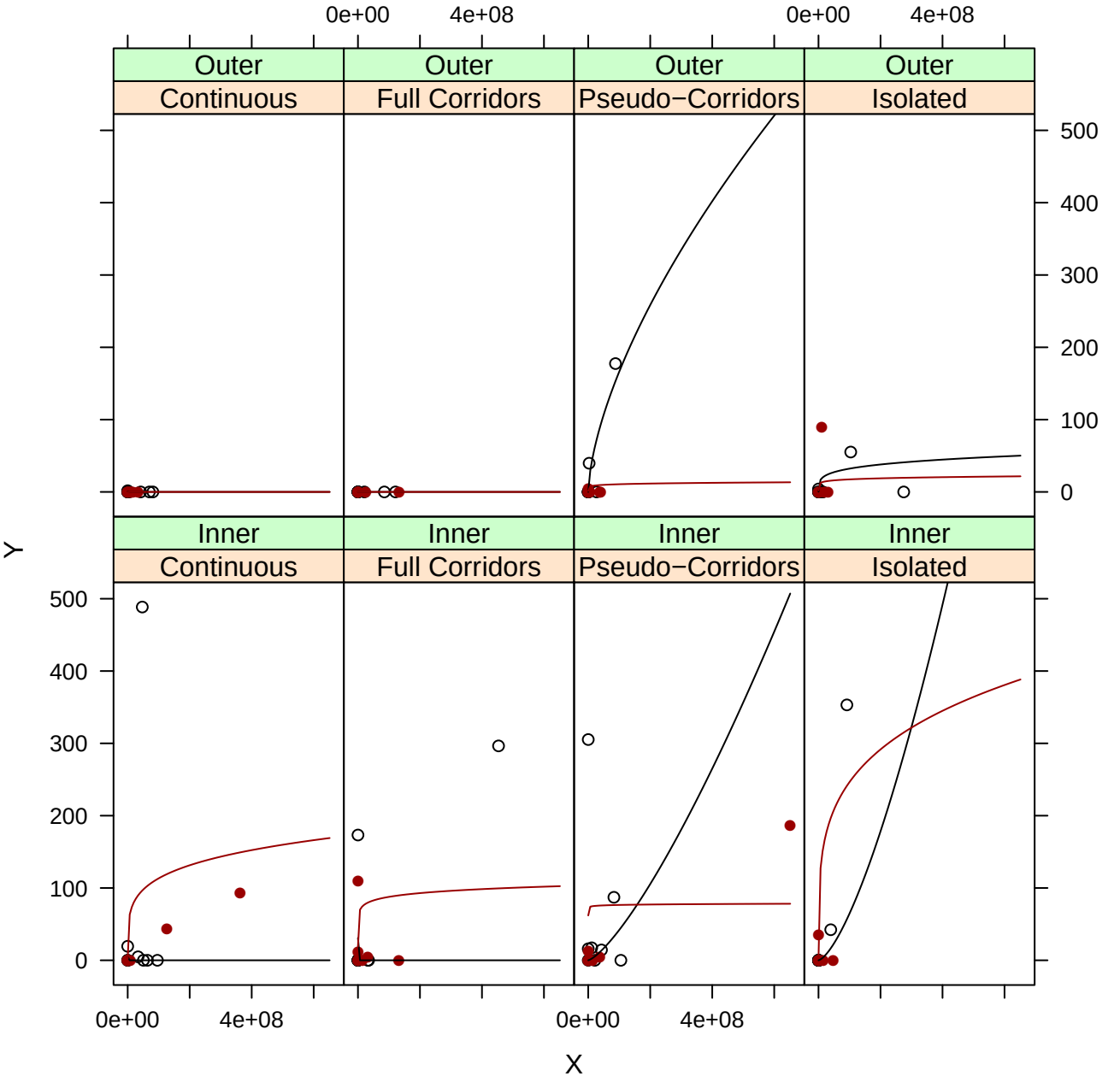

Histogram of Model.resid
Frequency
0
20
40
60
80
−20
−10
0
10
20
30
Model.resid

Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous
0e+00
3e+08
6e+08
30
20
10
0
−10
Residuals
X
Given : Position
Outer
Inner


Inner
Isolated
Ambient
Inner
Isolated
Full Chamber
Inner
Pseudo−Corridors
Ambient
Inner
Pseudo−Corridors
Full Chamber
Inner
Full Corridors
Ambient
Inner
Full Corridors
Full Chamber
Inner
Continuous
Ambient
Inner
Continuous
Full Chamber
0e+00
2e+08
4e+08
6e+08
30
20
10
0
−10
Residuals
X


Outer
Isolated
Ambient
Outer
Isolated
Full Chamber
Outer
Pseudo−Corridors
Ambient
Outer
Pseudo−Corridors
Full Chamber
Outer
Full Corridors
Ambient
Outer
Full Corridors
Full Chamber
Outer
Continuous
Ambient
Outer
Continuous
Full Chamber
0e+00
2e+08
4e+08
6e+08
30
20
10
0
−10
Residuals
X


Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
100
200
300
400
500
0e+00
1e+08
2e+08
3e+08
4e+08
5e+08
6e+08
Heterocyst 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
0e+00
4e+08
0
100
200
300
400
500
X
Y