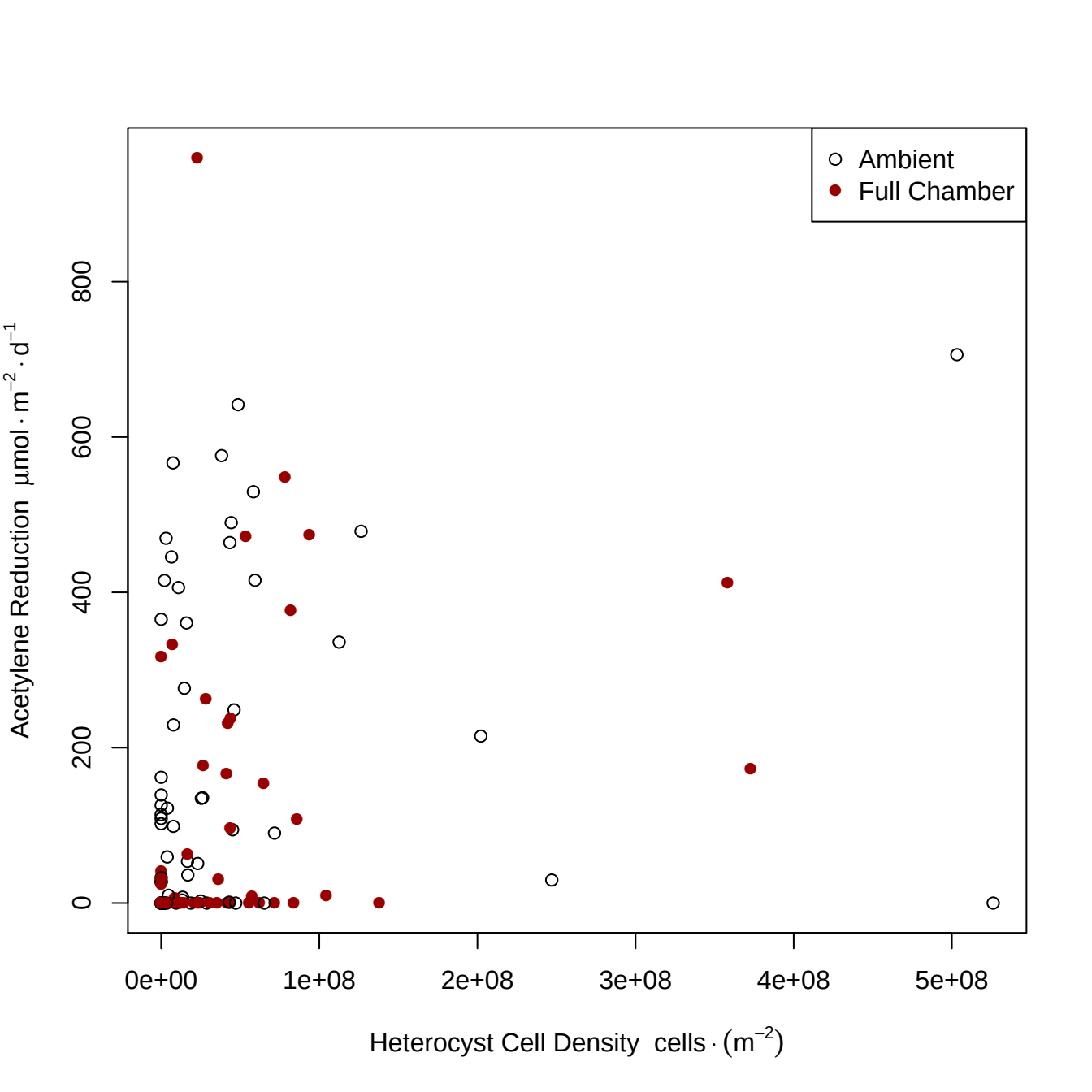
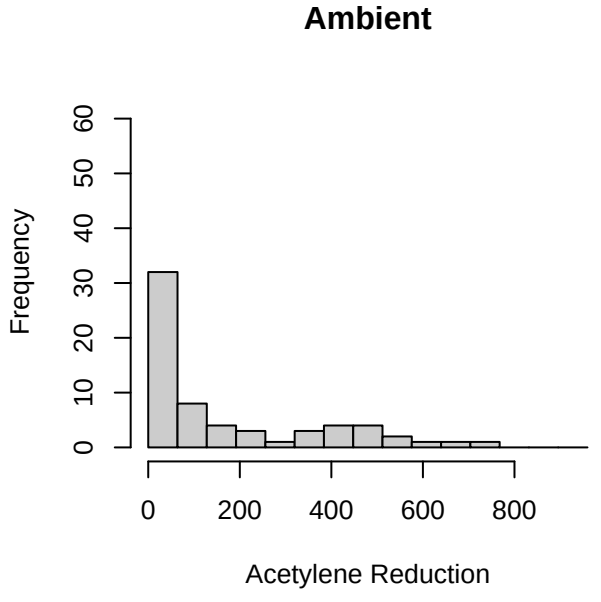
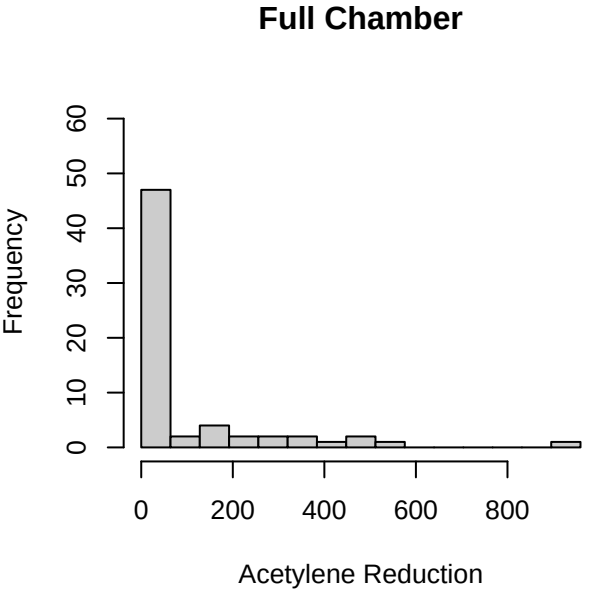
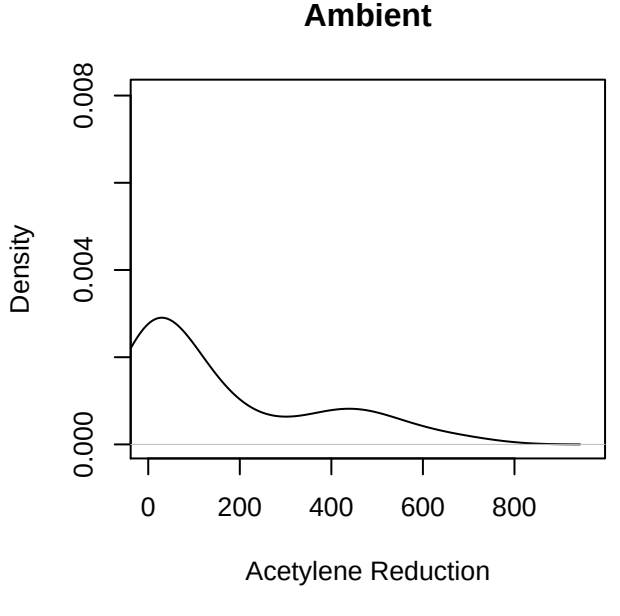
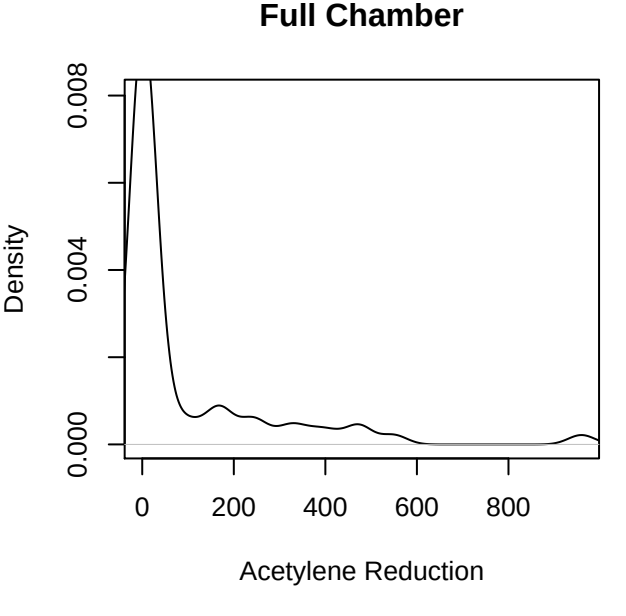
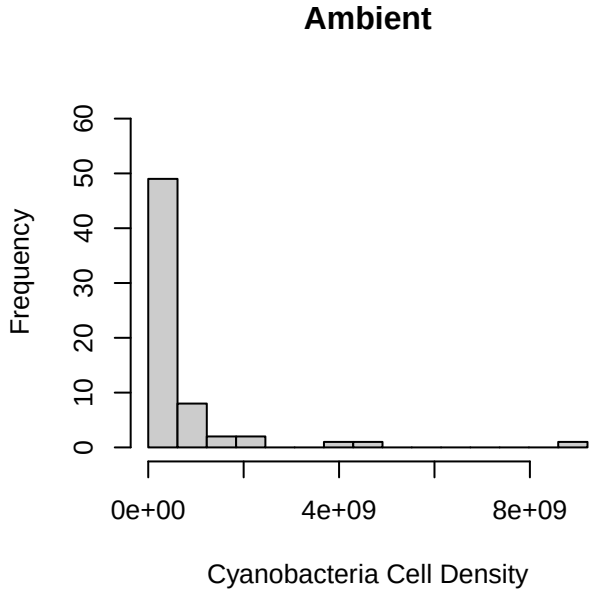

Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
200
400
600
800
0e+00
1e+08
2e+08
3e+08
4e+08
5e+08
Heterocyst Cell Density cells · (m^{-2})

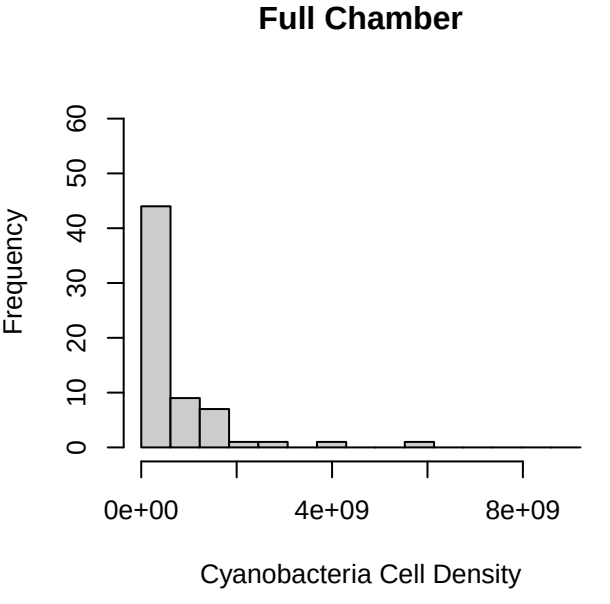

Ambient
Frequency
0
10
20
30
40
50
60
0
200
400
600
800
Acetylene Reduction

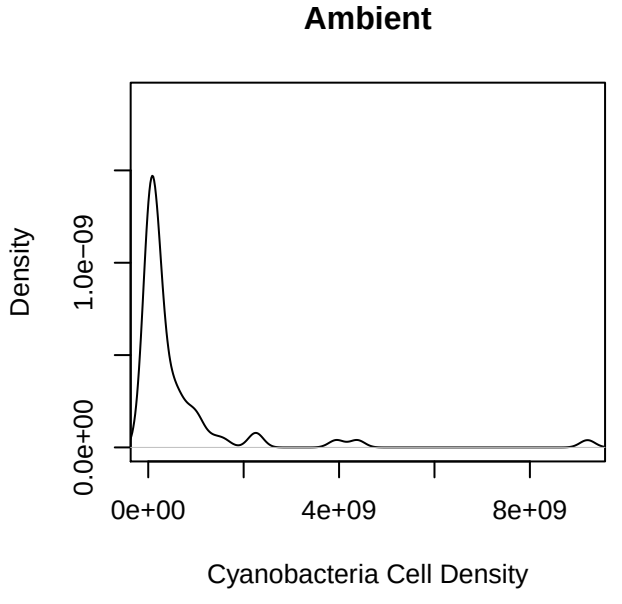

Full Chamber
Frequency
0
10
20
30
40
50
60
0
200
400
600
800
Acetylene Reduction

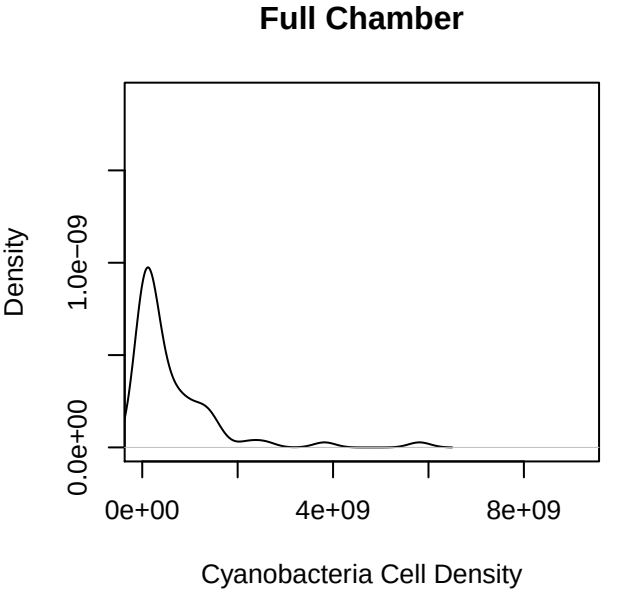

Ambient
Density
0.000
0.004
0.008
0
200
400
600
800
Acetylene Reduction

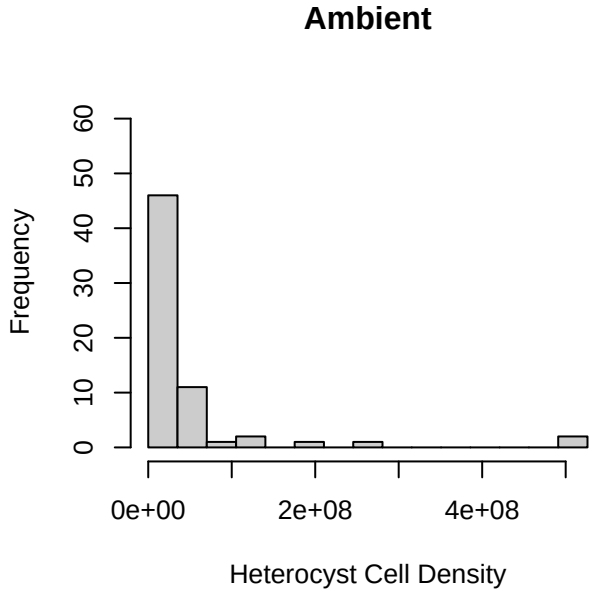

Full Chamber
Density
0.000
0.004
0.008
0
200
400
600
800
Acetylene Reduction

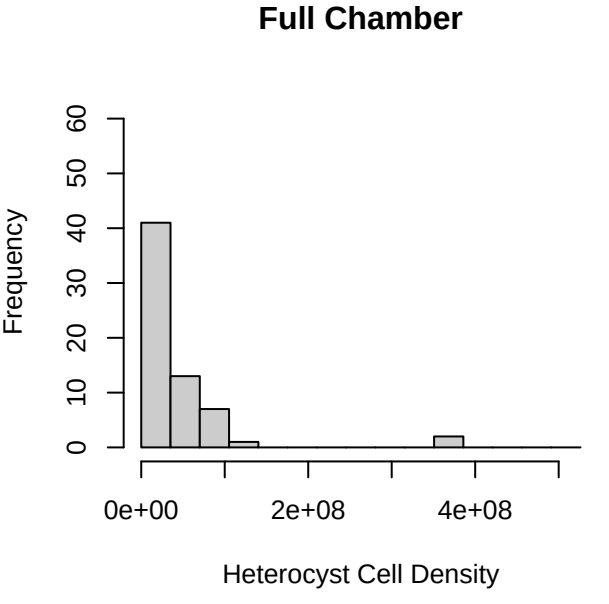

Ambient
Frequency
0
10
20
30
40
50
60
0e+00
4e+09
8e+09
Cyanobacteria Cell Density

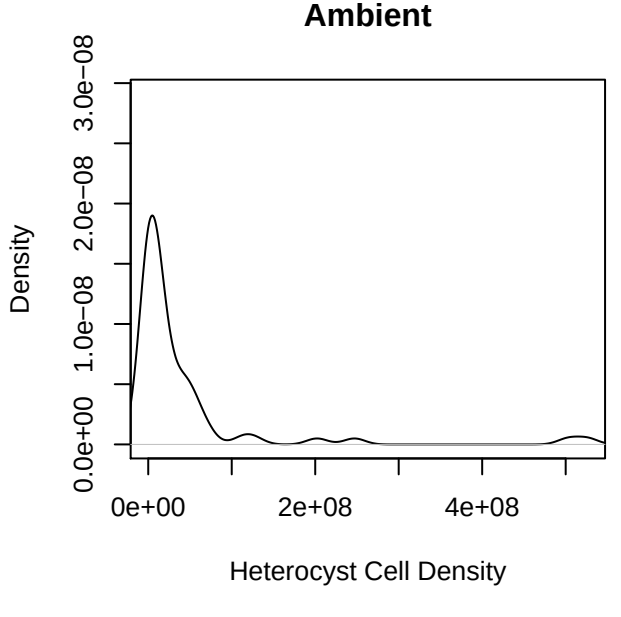

Full Chamber
Frequency
0
10
20
30
40
50
60
0e+00
4e+09
8e+09
Cyanobacteria Cell Density

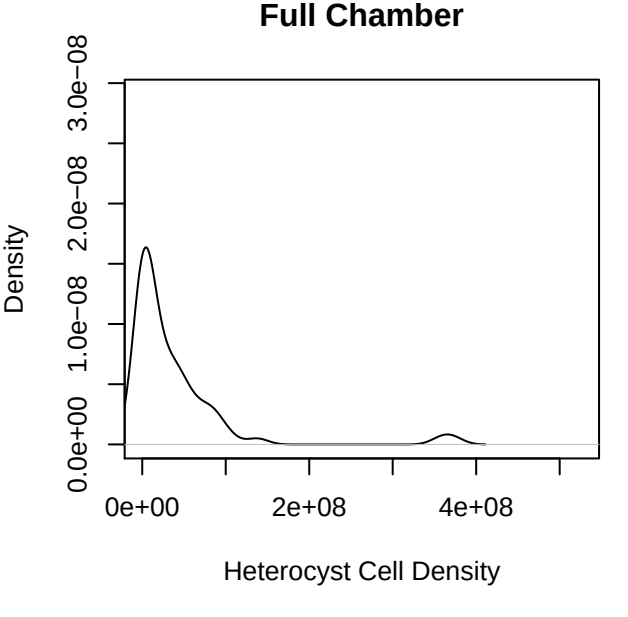

Ambient
Density
0.0e+00
1.0e−09
0e+00
4e+09
8e+09
Cyanobacteria Cell Density


Full Chamber
Density
0.0e+00
1.0e−09
0e+00
4e+09
8e+09
Cyanobacteria Cell Density


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

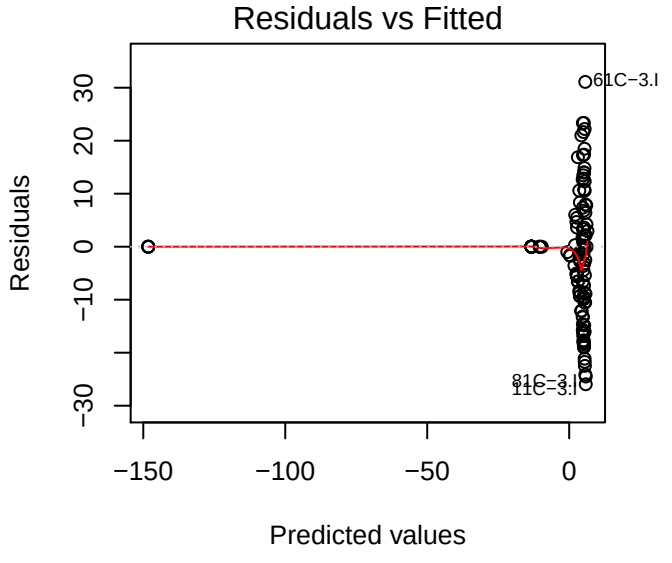

Full Chamber
Frequency
0
10
20
30
40
50
60
0e+00
2e+08
4e+08
Heterocyst Cell Density

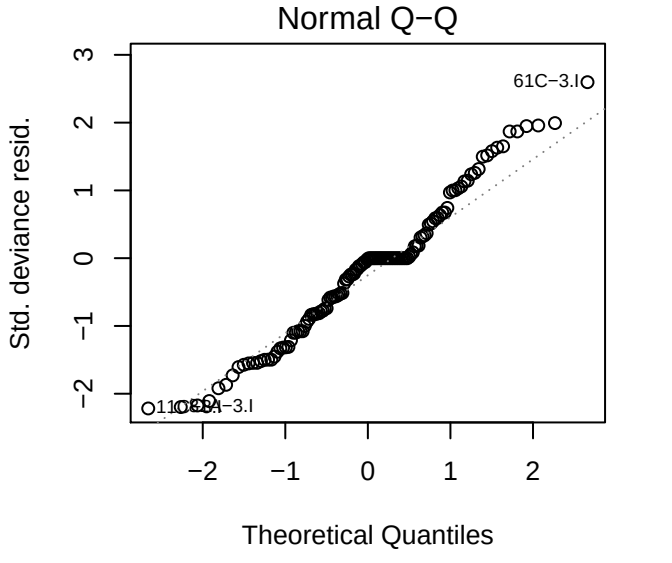

Ambient
Density
0.0e+00
1.0e−08
2.0e−08
3.0e−08
0e+00
2e+08
4e+08
Heterocyst Cell Density

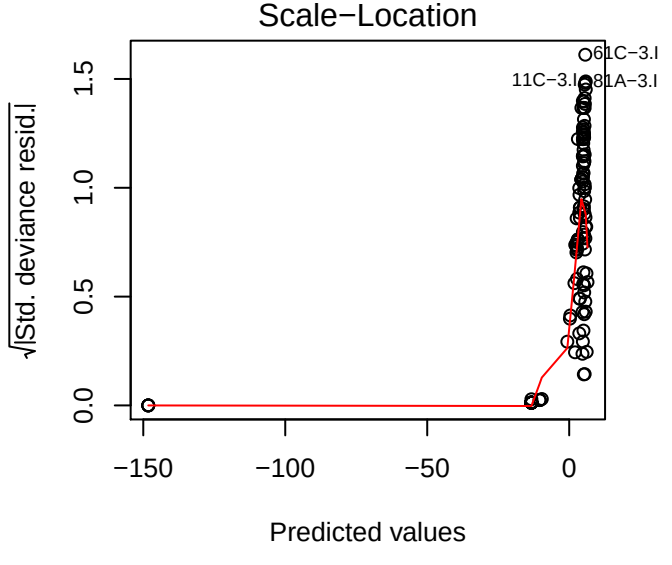

Full Chamber
Density
0.0e+00
1.0e−08
2.0e−08
3.0e−08
0e+00
2e+08
4e+08
Heterocyst Cell Density

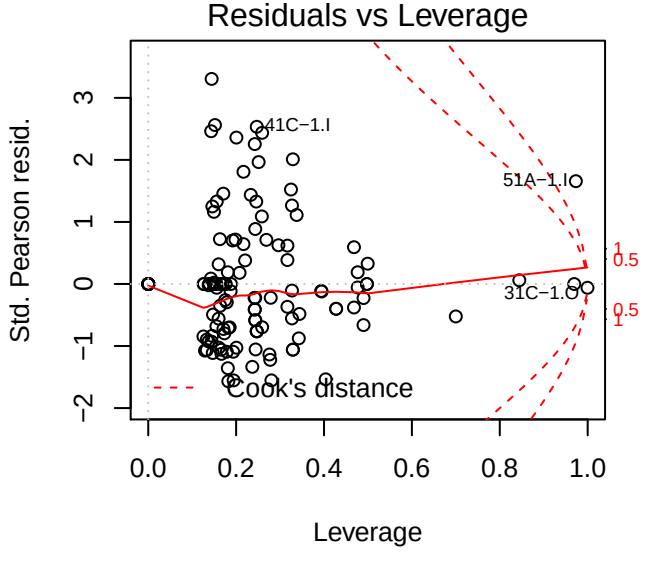
Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous
0e+00
2e+08
4e+08
0
200
400
600
800
Y
X
Given : Position
Outer
Inner

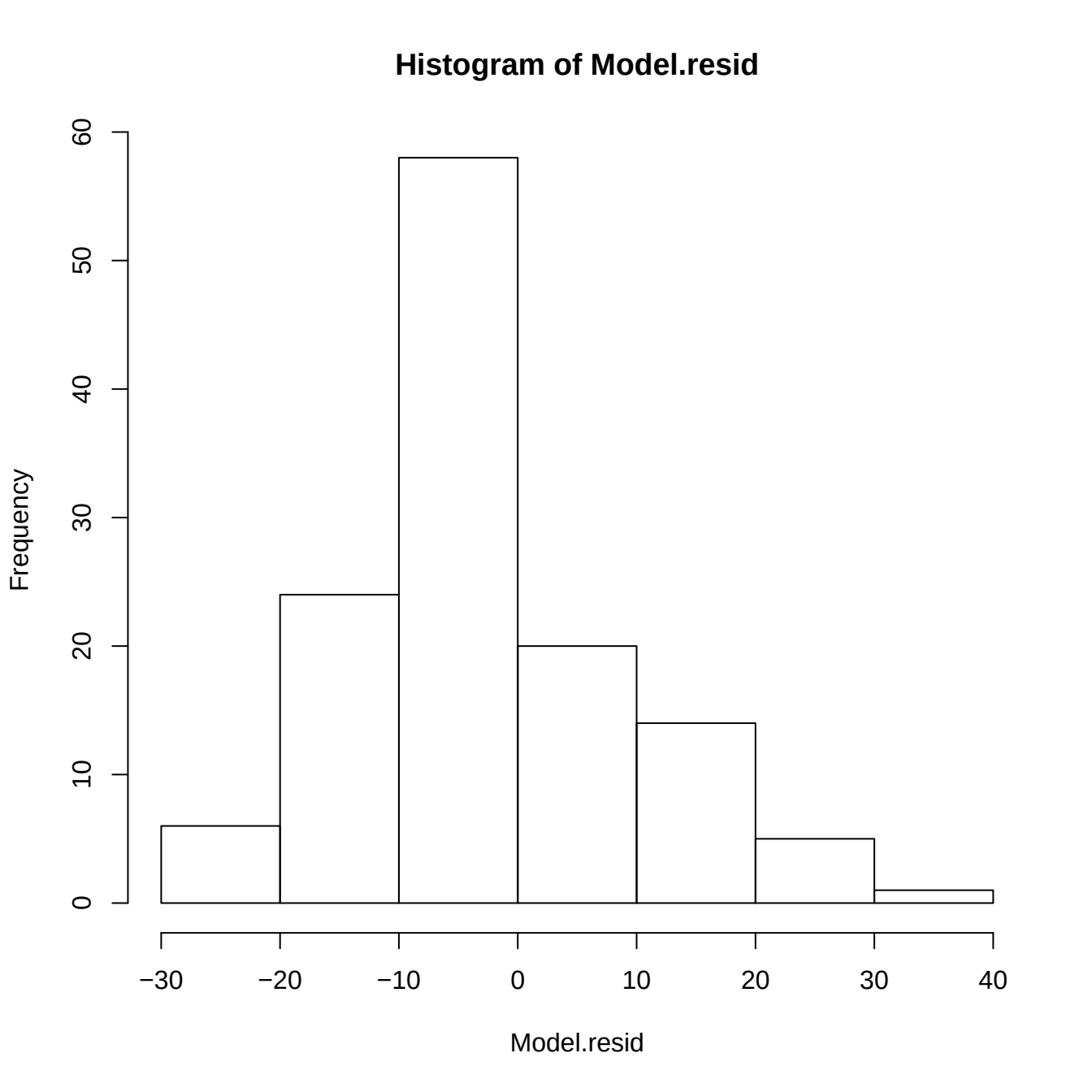
Given : Chamber
Full Chamber
Ambient
0e+00
2e+08
4e+08
Y
0
200
600
X
Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous


Residuals vs Fitted
Residuals
Predicted values
61C−3.I
81C−3.I
11C−3.I
30
20
10
0
−10
−30
−150
−100
−50
0

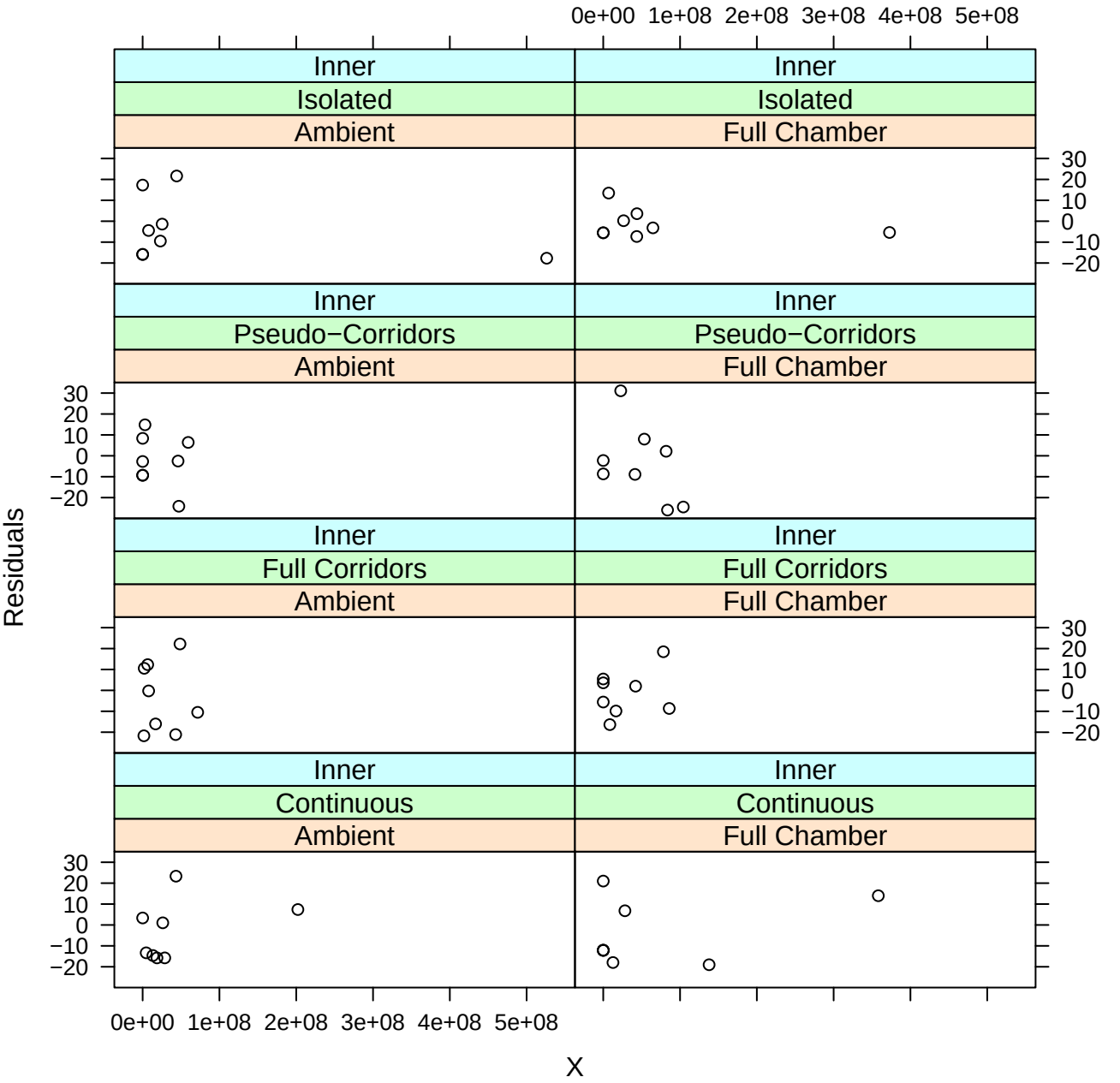

Normal Q−Q
Std. deviance resid.
Theoretical Quantiles
61C−3.I
11C−3.I
3
2
1
0
−1
−2

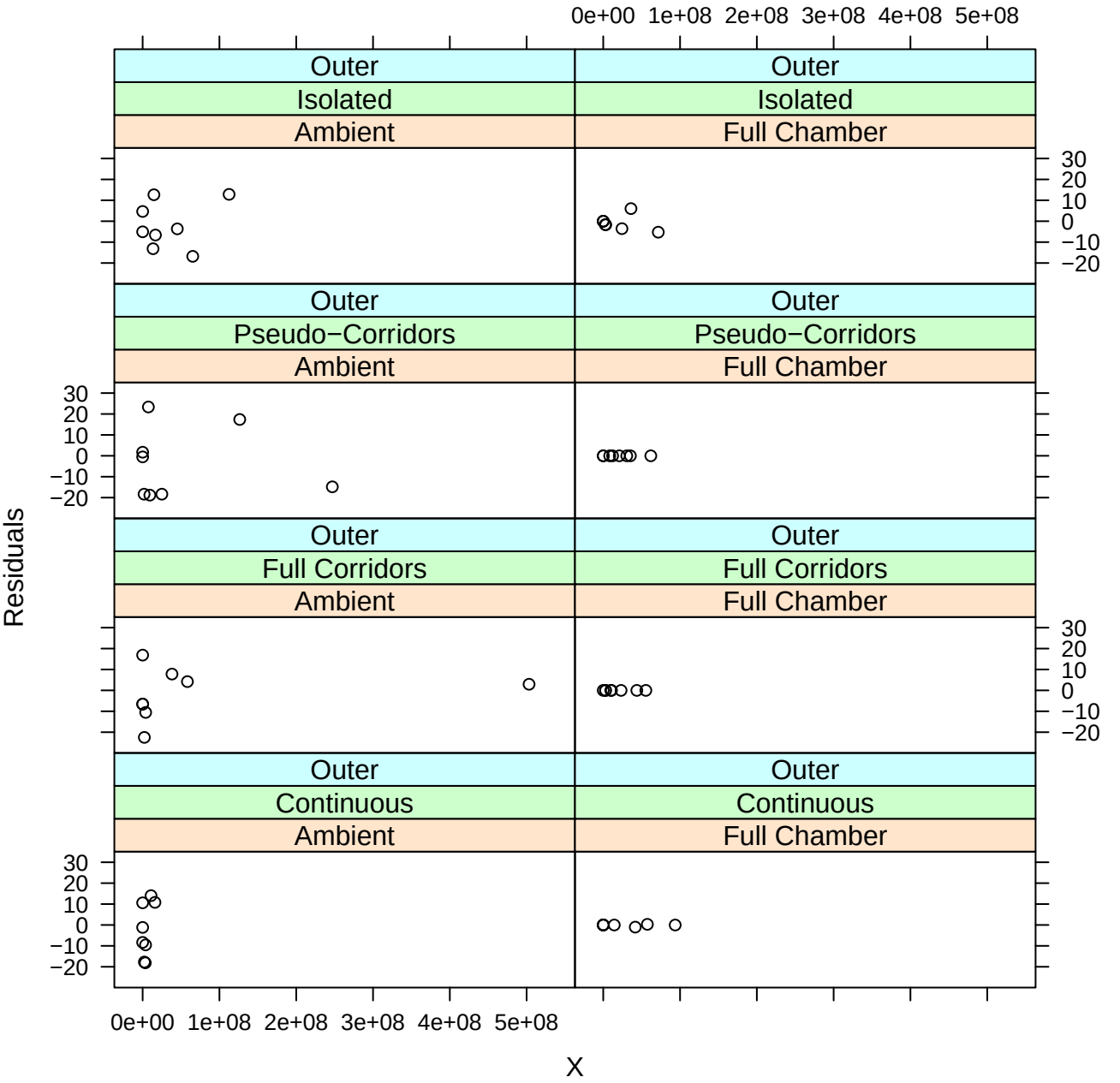

Scale−Location
√|Std. deviance resid.|
Predicted values
61C−3.I
11C−3.I
81A−3.I
1.5
1.0
0.5
0.0
−150
−100
−50
0

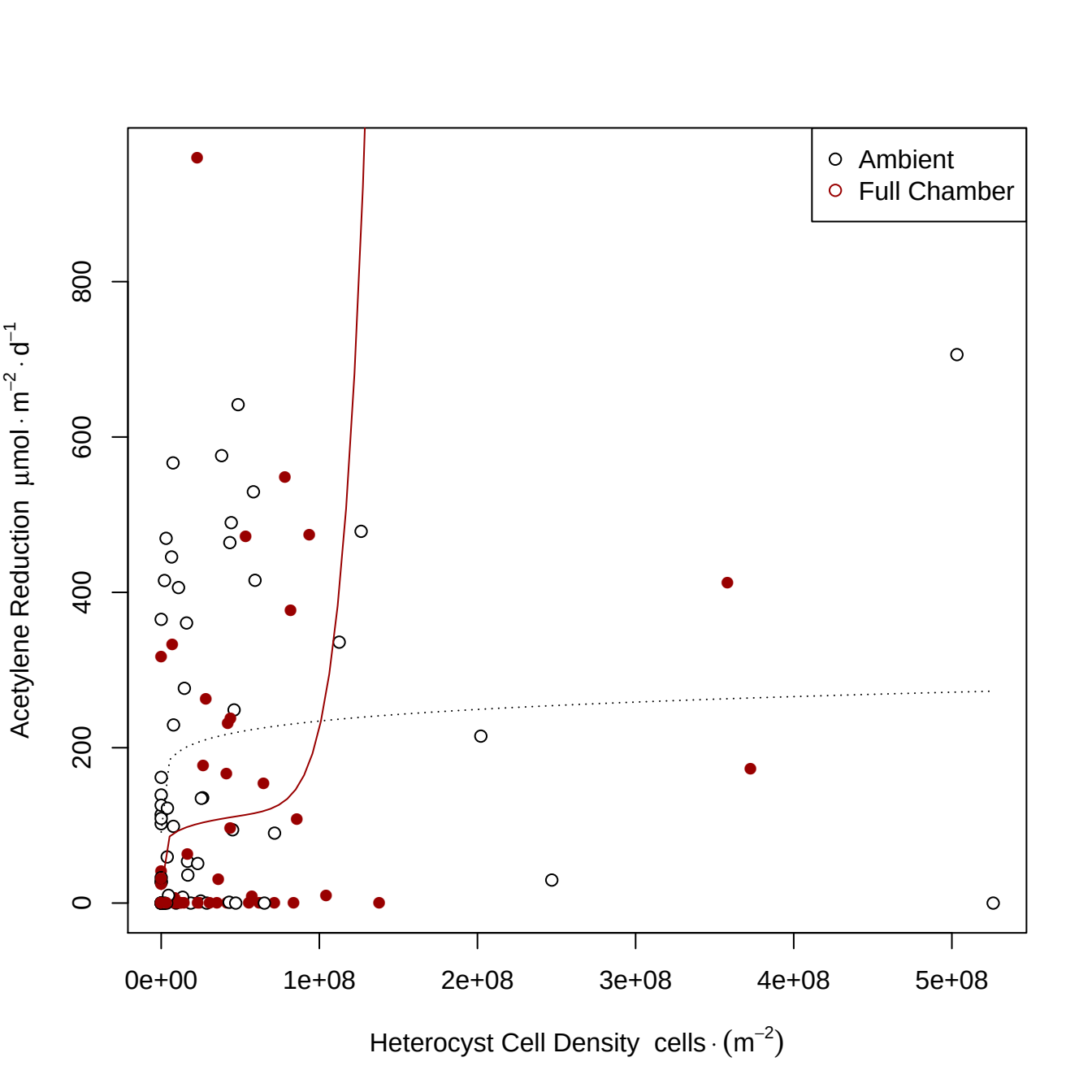

Residuals vs Leverage
Std. Pearson resid.
Leverage
41C−1.I
51A−1.I
31C−1.I
Cook's distance
3
2
1
0
−1
−2
0.0
0.2
0.4
0.6
0.8
1.0
0.5
0.5
1

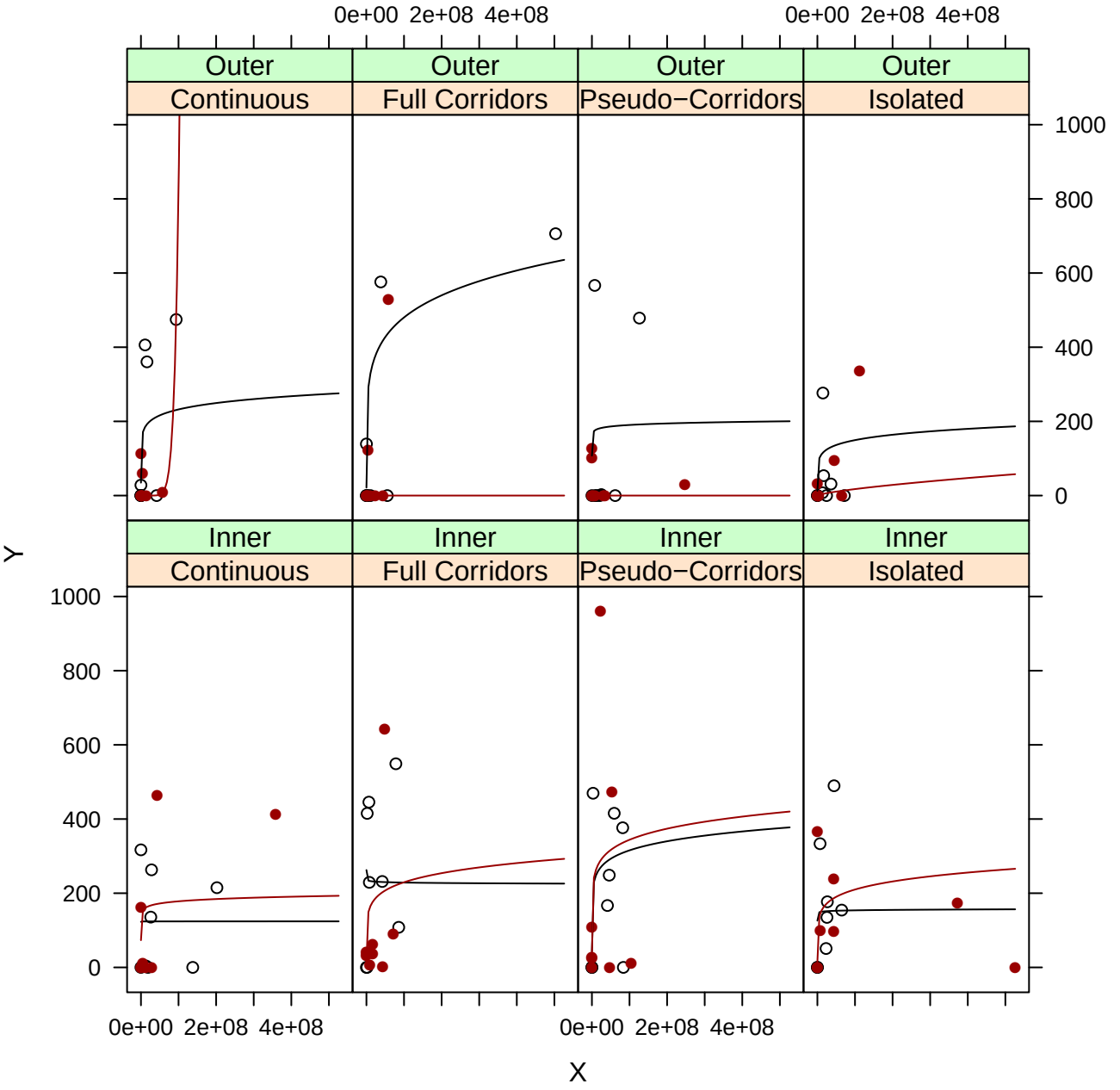

Histogram of Model.resid
Frequency
0
10
20
30
40
50
60
−30
−20
−10
0
10
20
30
40
Model.resid

Given : Frag
Isolated
Pseudo−Corridors
Full Corridors
Continuous
0e+00
2e+08
4e+08
Residuals
30
20
10
0
−10
−20
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 1e+08 2e+08 3e+08 4e+08 5e+08
30 20 10 0 −10 −20
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 1e+08 2e+08 3e+08 4e+08 5e+08
30 20 10 0 −10 −20
Residuals
X


Ambient
Full Chamber
Acetylene Reduction µmol · m^{-2} · d^{-1}
0
200
400
600
800
0e+00
1e+08
2e+08
3e+08
4e+08
5e+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 2e+08 4e+08
0e+00 2e+08 4e+08
0e+00 2e+08 4e+08
0e+00 2e+08 4e+08
0
200
400
600
800
1000
Y
X