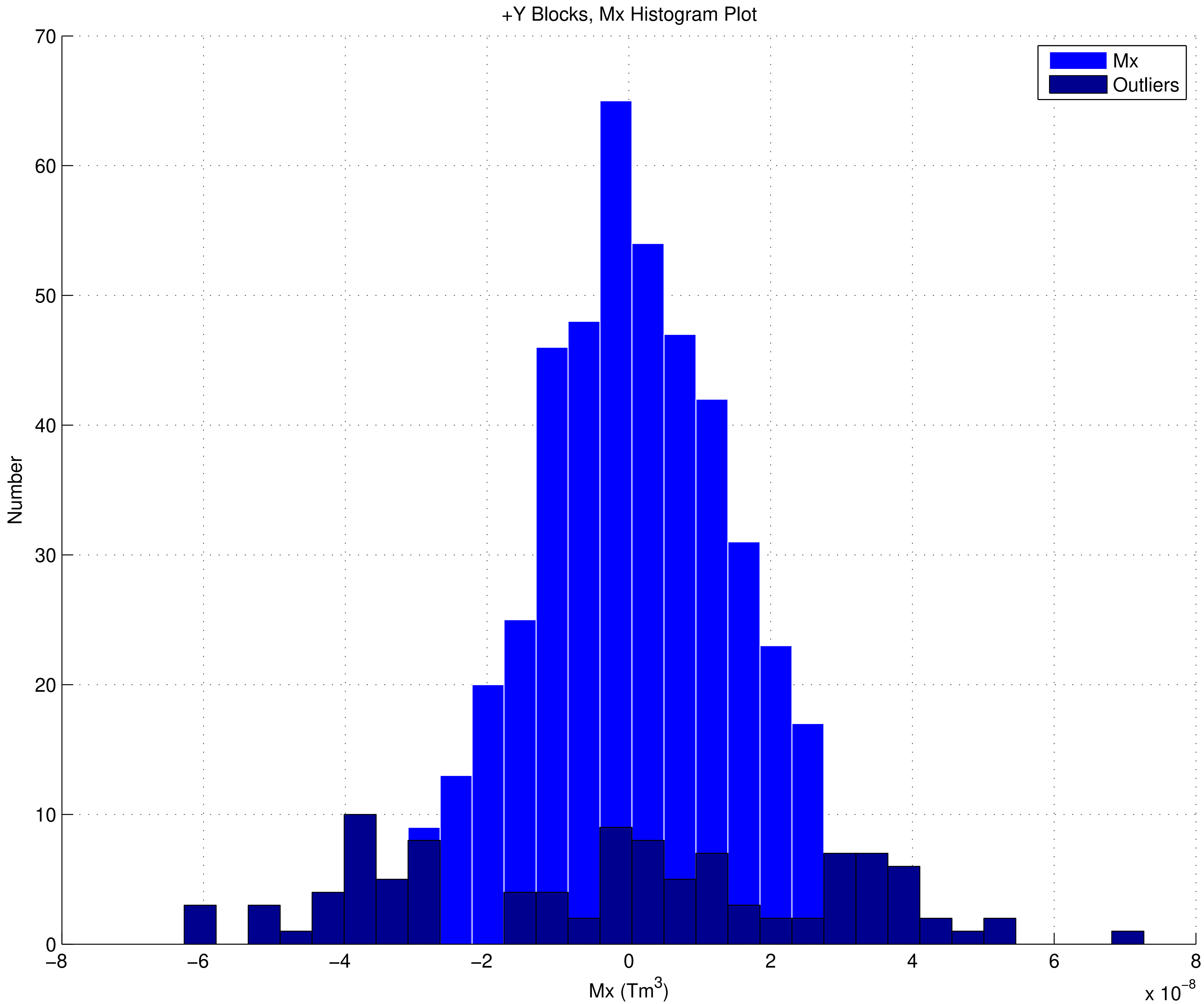
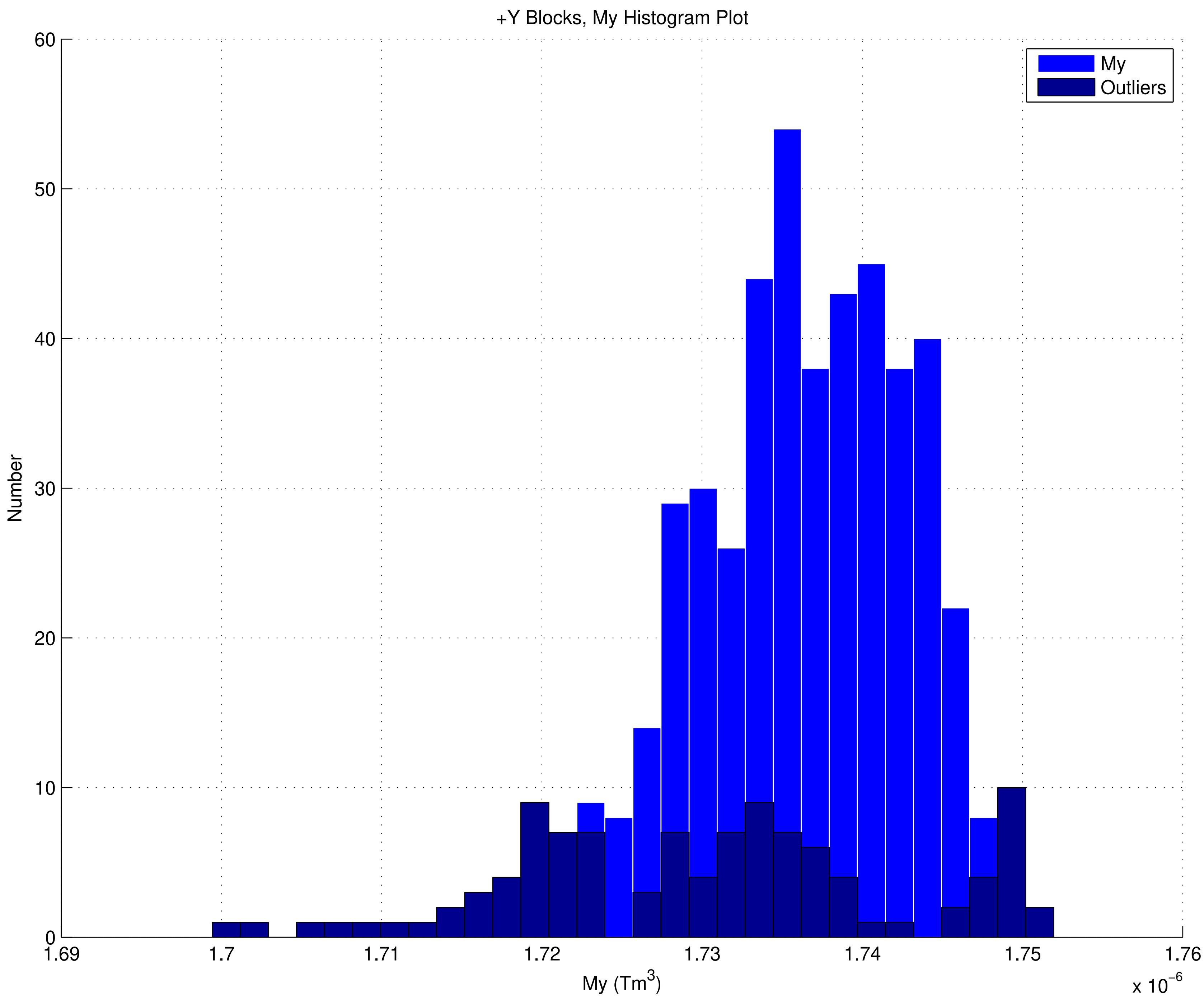
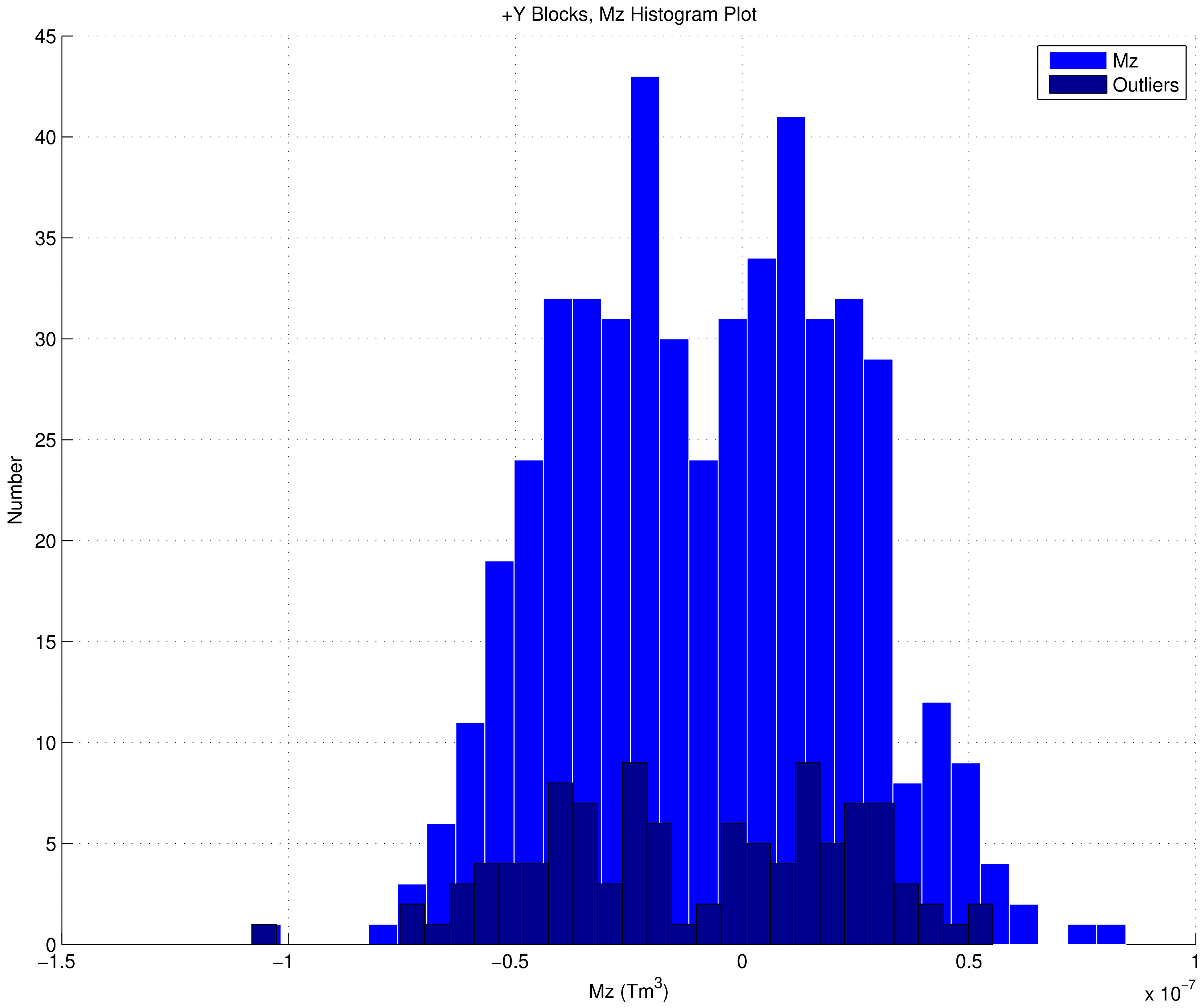
SLAC Magnetic Measurements

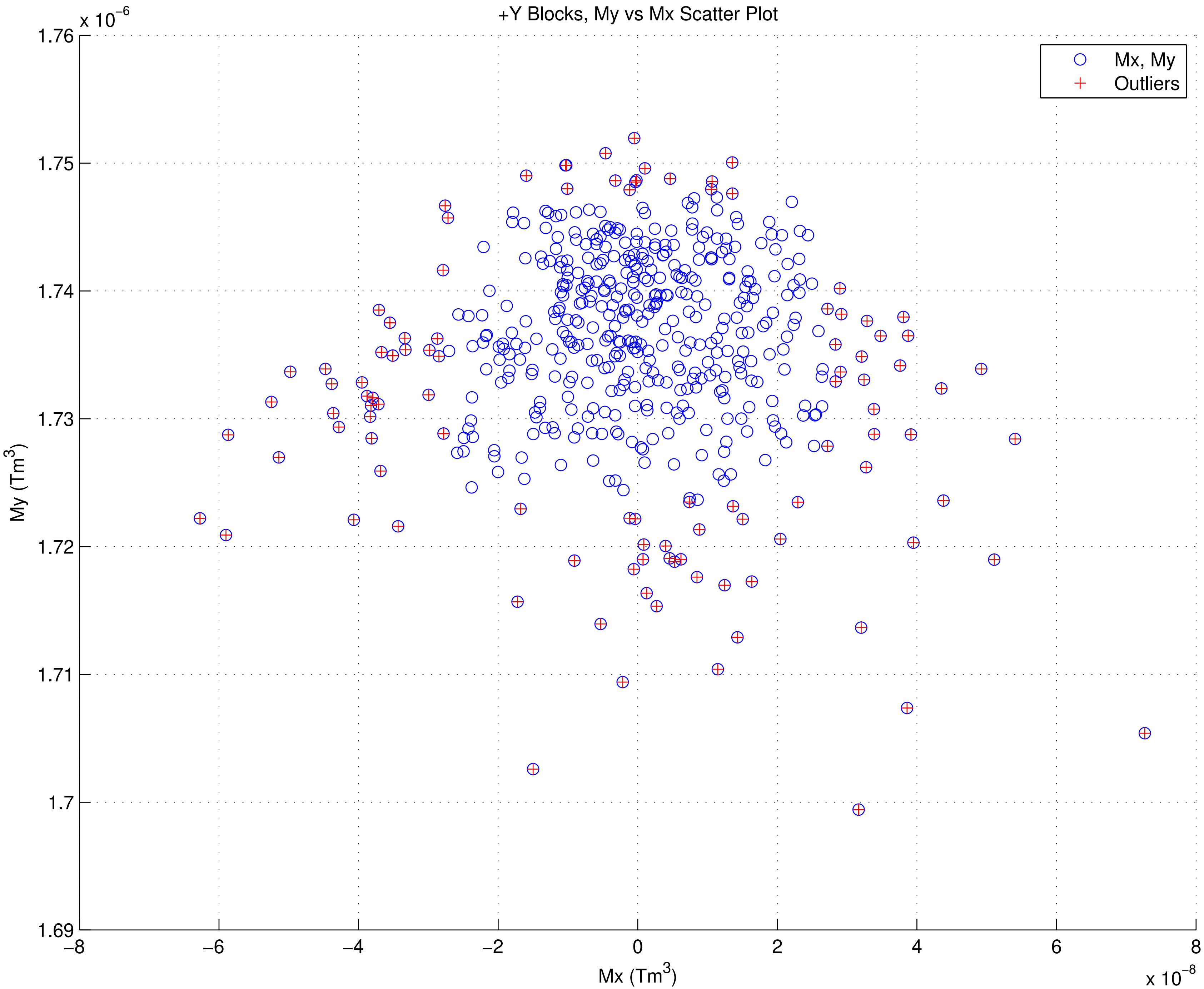
Vertically Magnetized Block Sort Analysis

Parameters:
OUTPUT-FILE-DIR =C:\Magdata\Delta 3.2 Block Sort Results

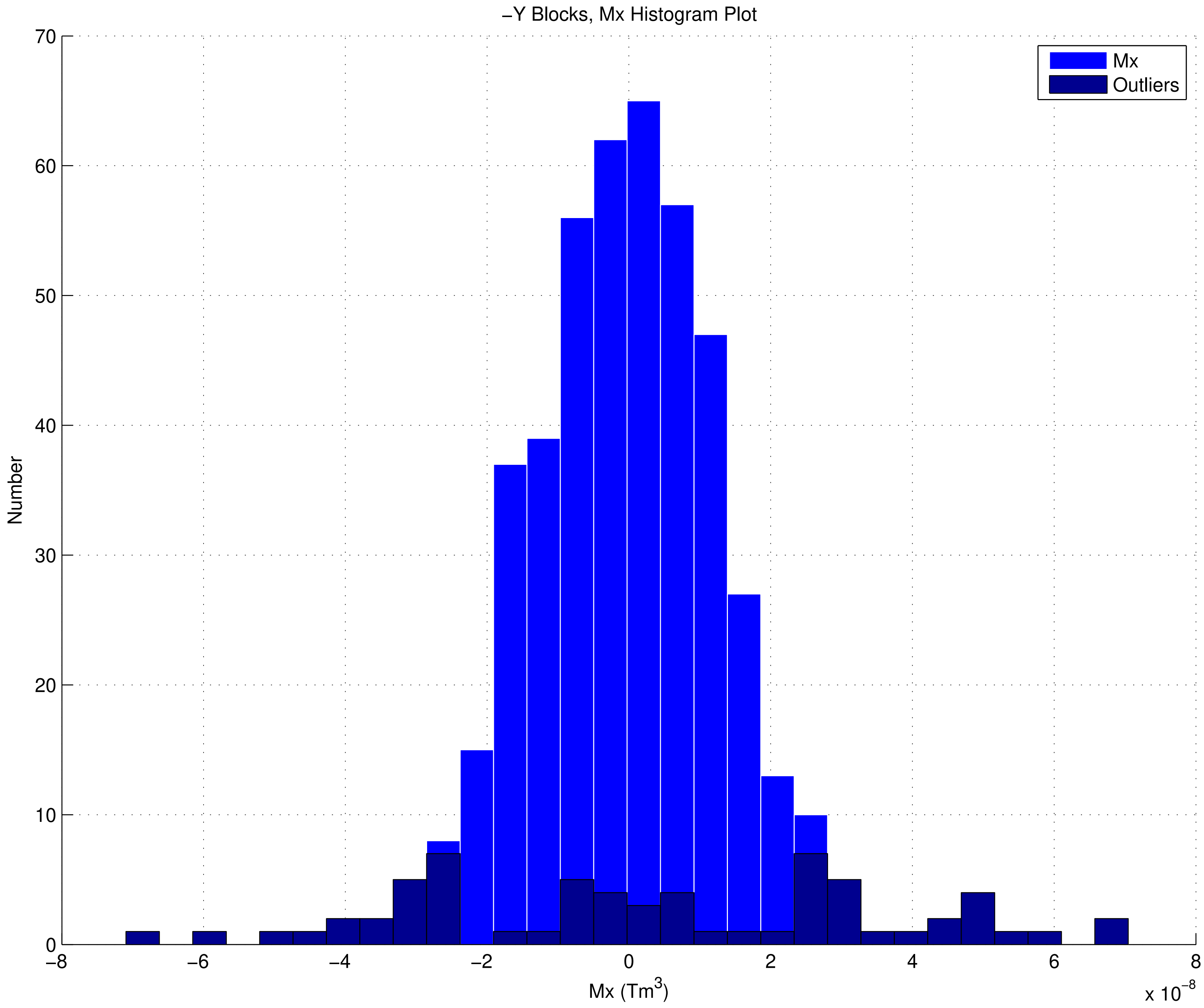

+Y Blocks, Mx Histogram Plot
Mx
Outliers
Number
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8
Mx (Tm3)
x 10−8


+Y Blocks, My Histogram Plot
My
Outliers
Number
60
50
40
30
20
10
0
1.69
1.7
1.71
1.72
1.73
1.74
1.75
1.76
My (Tm^3)
x 10^{-6}

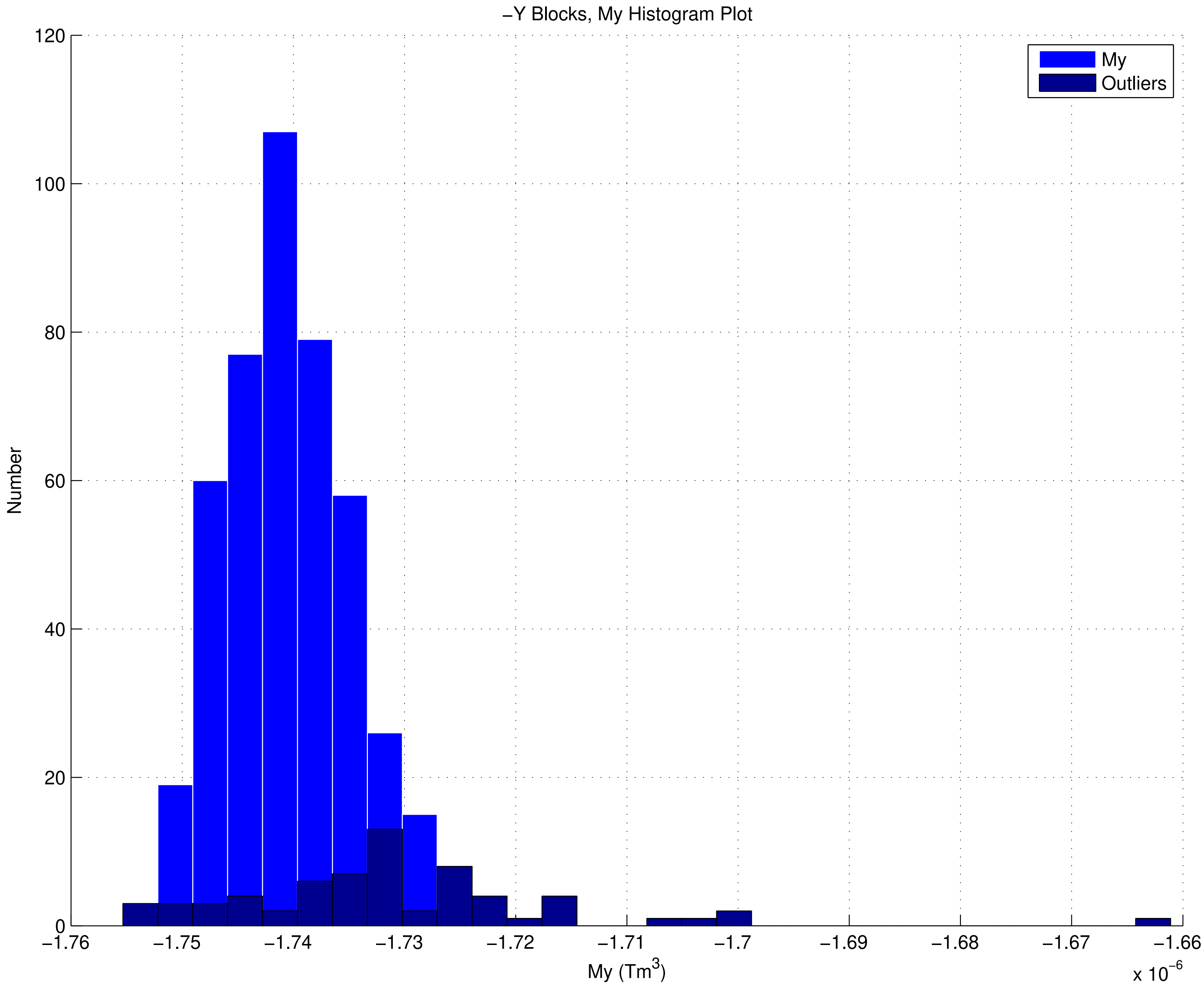

+Y Blocks, Mz Histogram Plot
Mz
Outliers
Number
Mz (Tm3)
x 10-7
45
40
35
30
25
20
15
10
5
0
−1.5
−1
−0.5
0
0.5
1



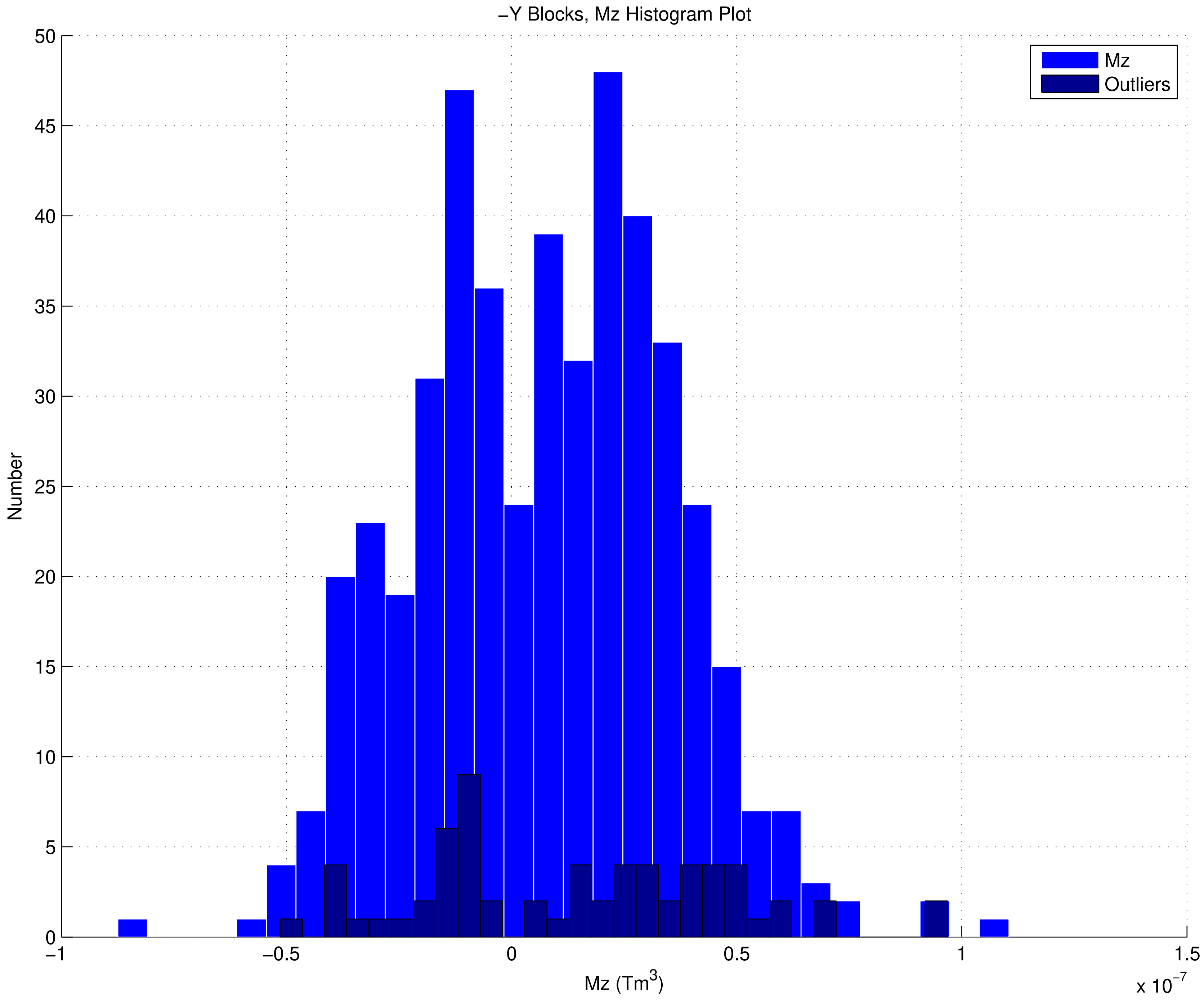
+Y Blocks, My vs Mx Scatter Plot
x 10^−6
1.76
1.75
1.74
1.73
1.72
1.71
1.7
1.69
My (Tm^3)
Mx, My
Outliers
−8
−6
−4
−2
0
2
4
6
8
Mx (Tm^3)
x 10^−8



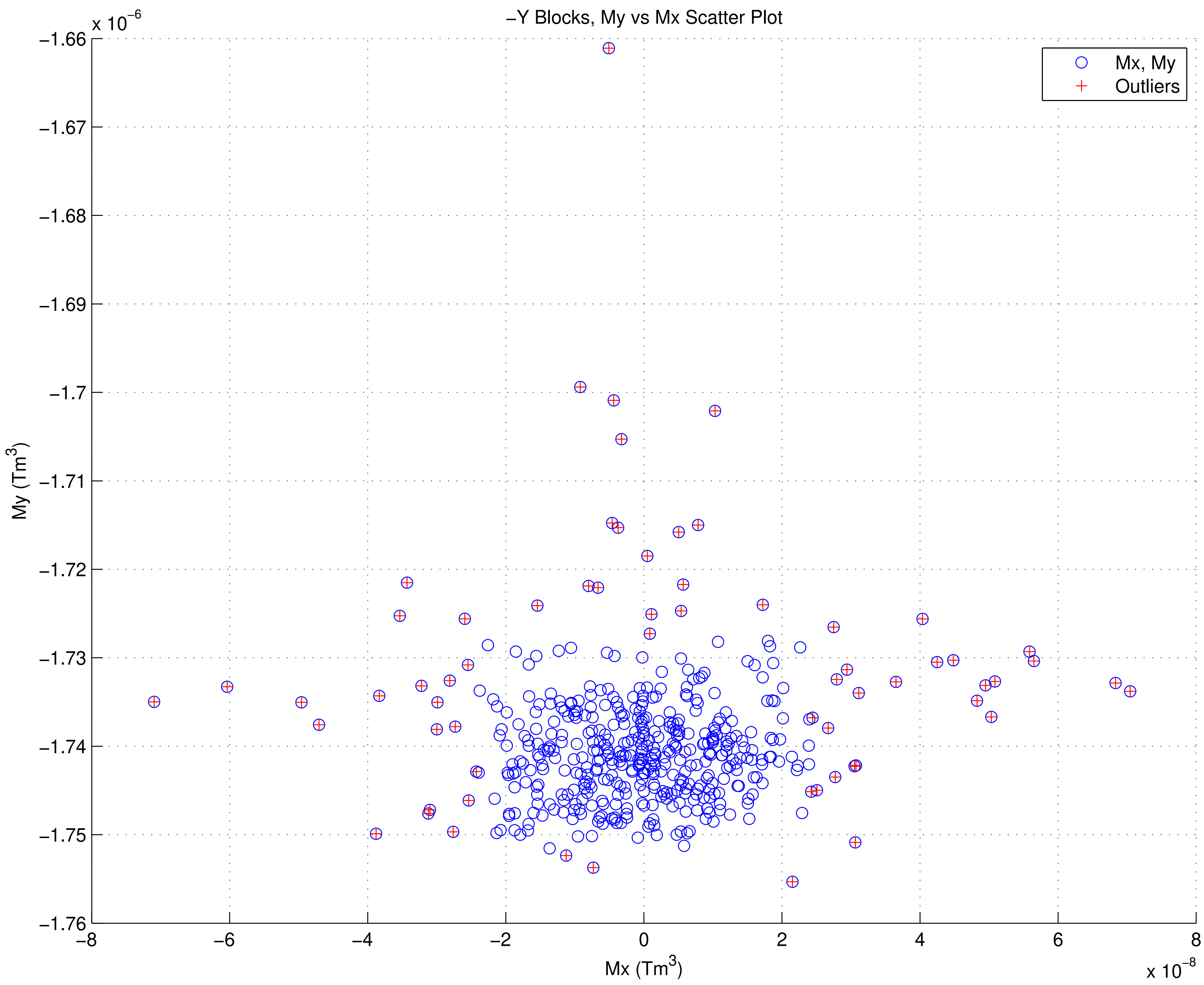
−Y Blocks, Mx Histogram Plot
Mx
Outliers
Number
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8
Mx (Tm^3)
x 10^{-8}



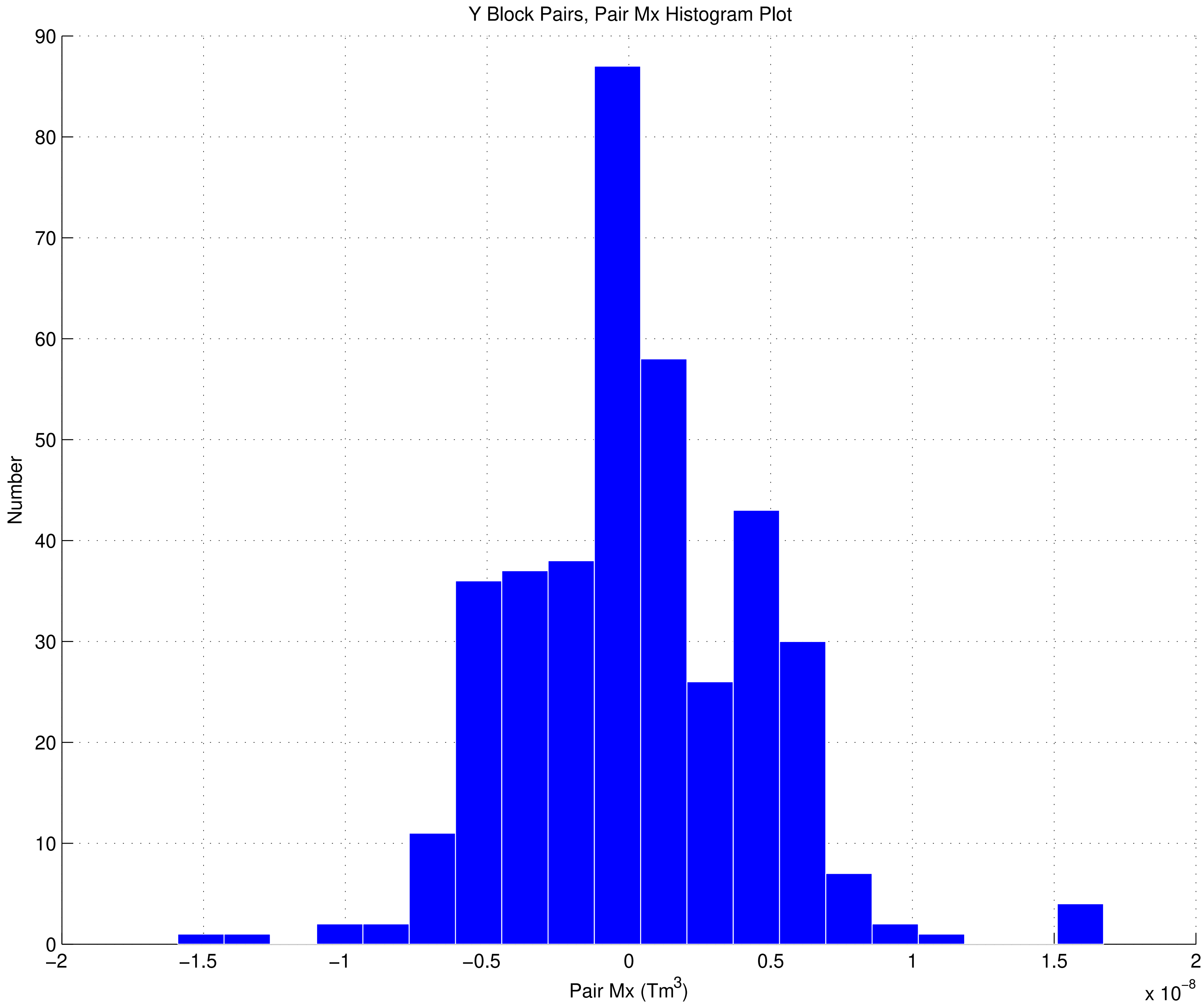
−Y Blocks, My Histogram Plot
My
Outliers
Number
120
100
80
60
40
20
0
−1.76
−1.75
−1.74
−1.73
−1.72
−1.71
−1.7
−1.69
−1.68
−1.67
−1.66
My (Tm^3)
x 10^{-6}

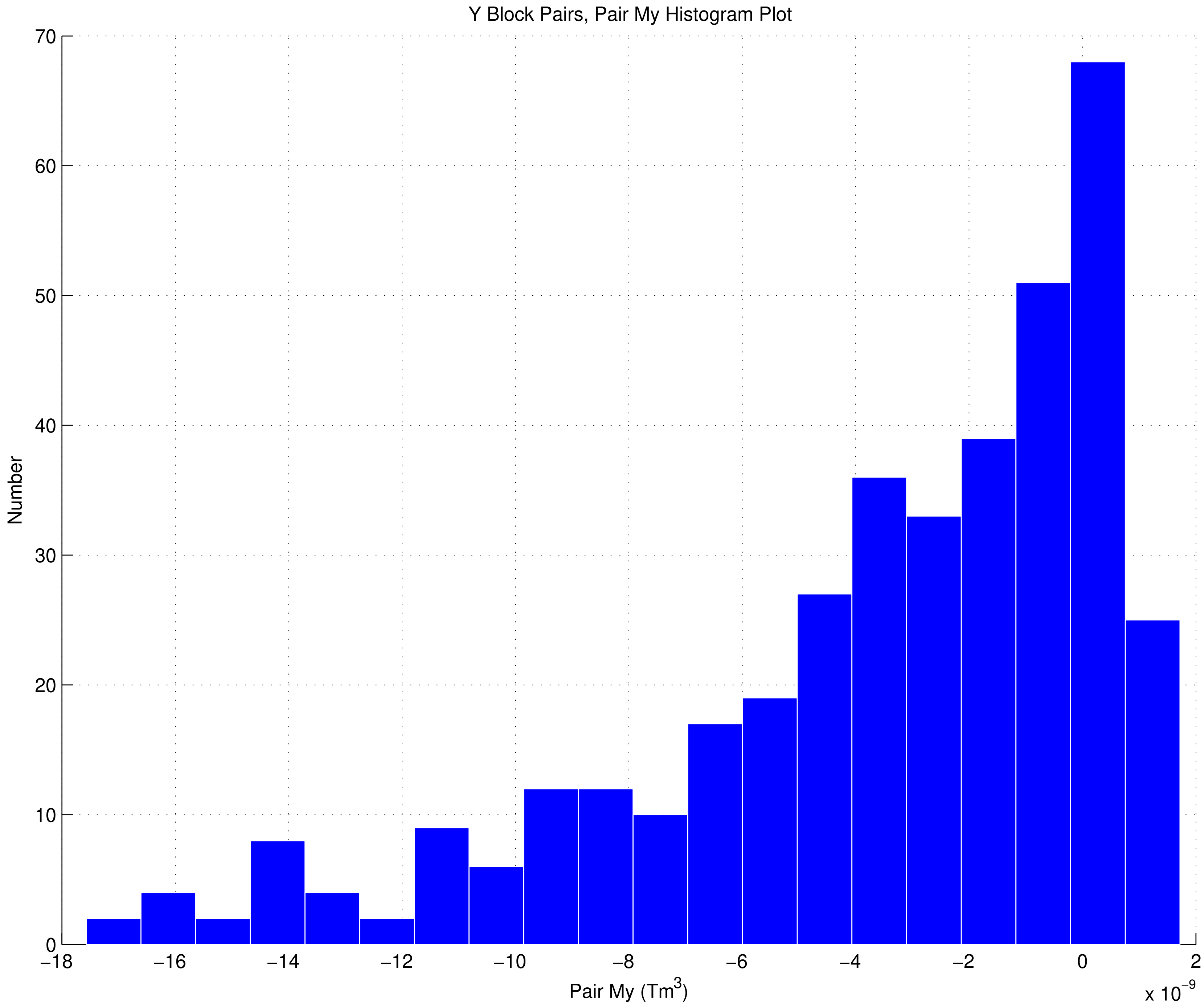


−Y Blocks, Mz Histogram Plot
Mz
Outliers
Number
Mz (Tm3)
x 10−7
50
45
40
35
30
25
20
15
10
5
0
−1
−0.5
0
0.5
1
1.5



−Y Blocks, My vs Mx Scatter Plot
x 10−6
−1.66
−1.67
−1.68
−1.69
−1.7
−1.71
−1.72
−1.73
−1.74
−1.75
−1.76
My (Tm3)
Mx, My
Outliers
−8
−6
−4
−2
0
2
4
6
8
Mx (Tm3)
x 10−8

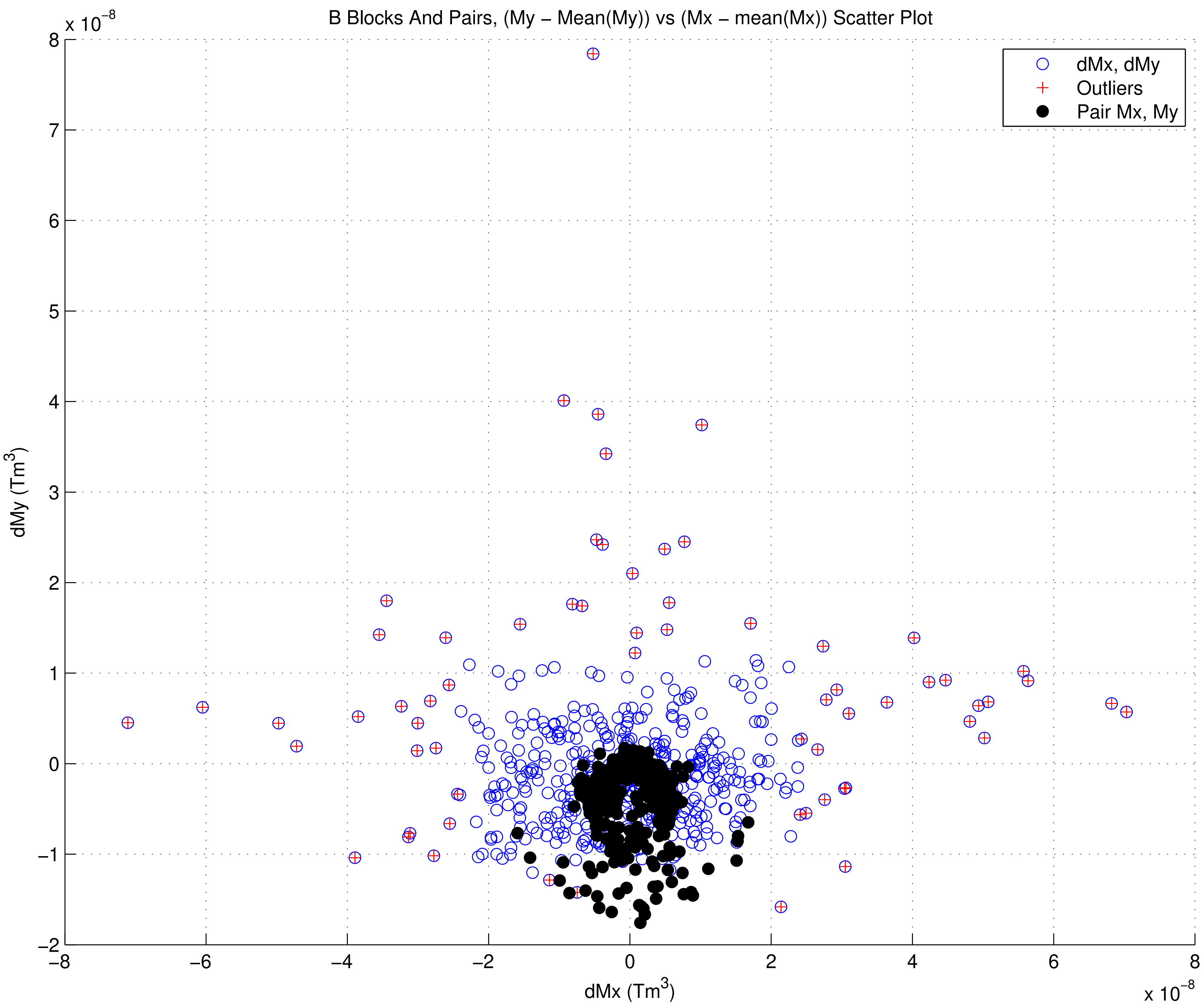

Y Block Pairs, Pair Mx Histogram Plot
Number
Pair Mx (Tm^3)
x 10^{-8}
90
80
70
60
50
40
30
20
10
0
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2



Y Block Pairs, Pair My Histogram Plot
Number
Pair My (Tm3)
x 10−9
0
10
20
30
40
50
60
70
−18
−16
−14
−12
−10
−8
−6
−4
−2
0
2

Y Block Pairs, My vs Mx Scatter Plot
x 10^-9
2
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
My (Tm^3)
Mx, My
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
Mx (Tm^3)
x 10^-8


A Blocks And Pairs, (My – Mean(My)) vs (Mx – mean(Mx)) Scatter Plot
x 10^-8
dMx, dMy
Outliers
Pair Mx, My
dMy (Tm^3)
dMx (Tm^3)
x 10^-8
3
2
1
0
−1
−2
−3
−4
−8
−6
−4
−2
0
2
4
6
8



B Blocks And Pairs, (My – Mean(My)) vs (Mx – mean(Mx)) Scatter Plot
x 10^-8
dMx, dMy
Outliers
Pair Mx, My
dMy (Tm^3)
dMx (Tm^3)
x 10^-8

A And B Blocks And Pairs, (My − Mean(My)) vs (Mx − mean(Mx)) Scatter Plot
x 10^−8
10
8
6
4
2
0
−2
−4
dMy (Tm^3)
−8
−6
−4
−2
0
2
4
6
8
dMx (Tm^3)
x 10^−8
dMx, dMy
Outliers
Pair Mx, My