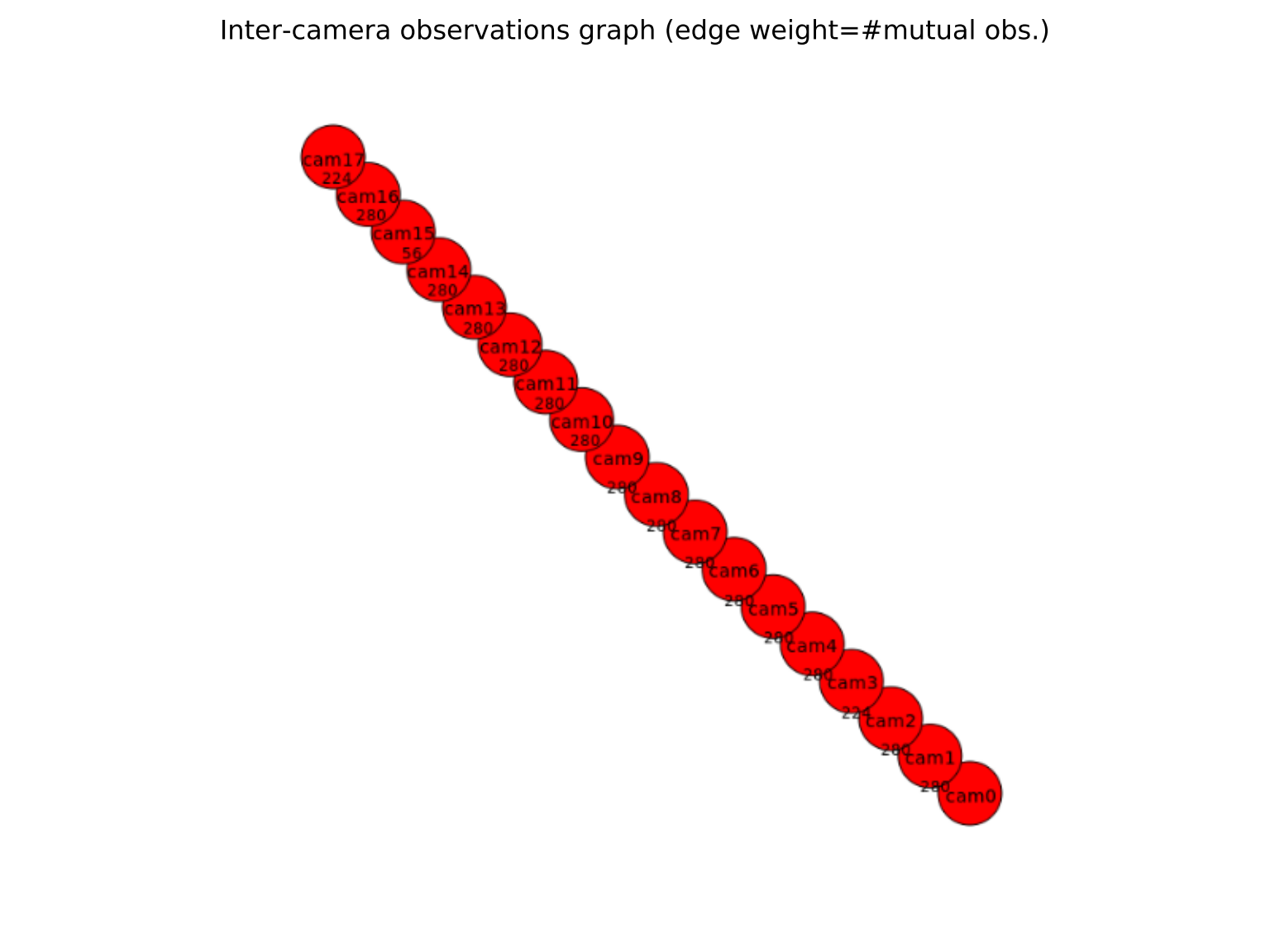
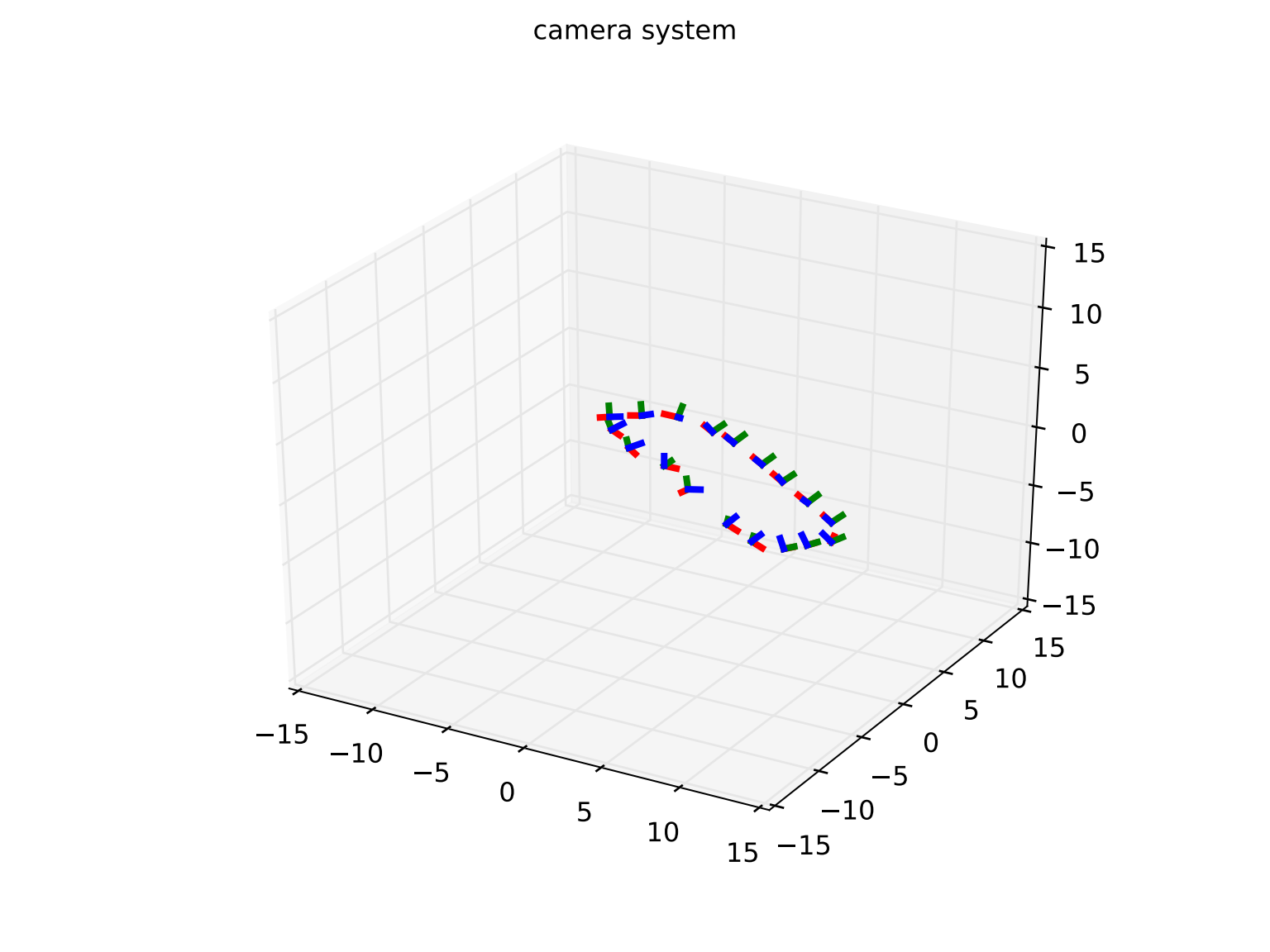
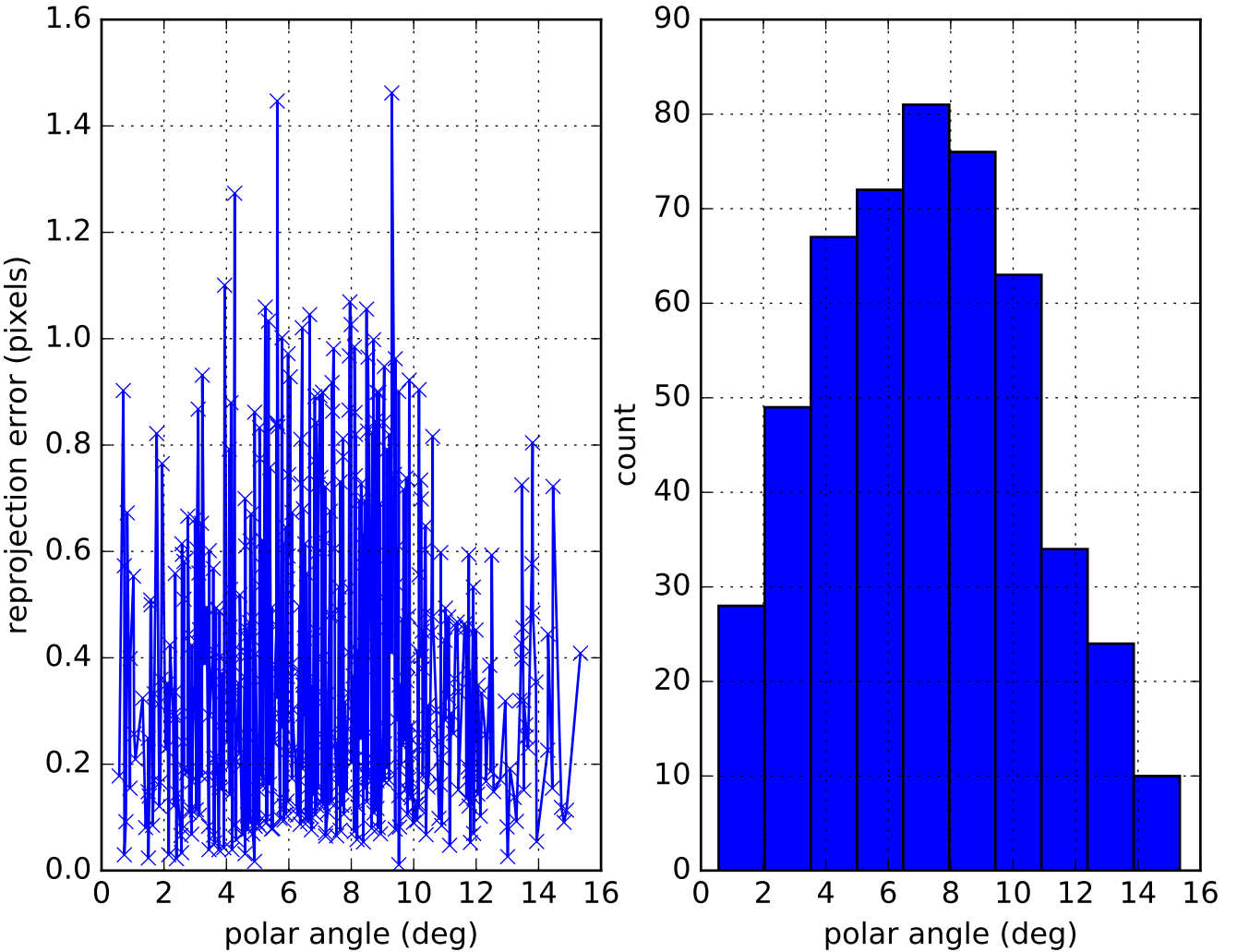
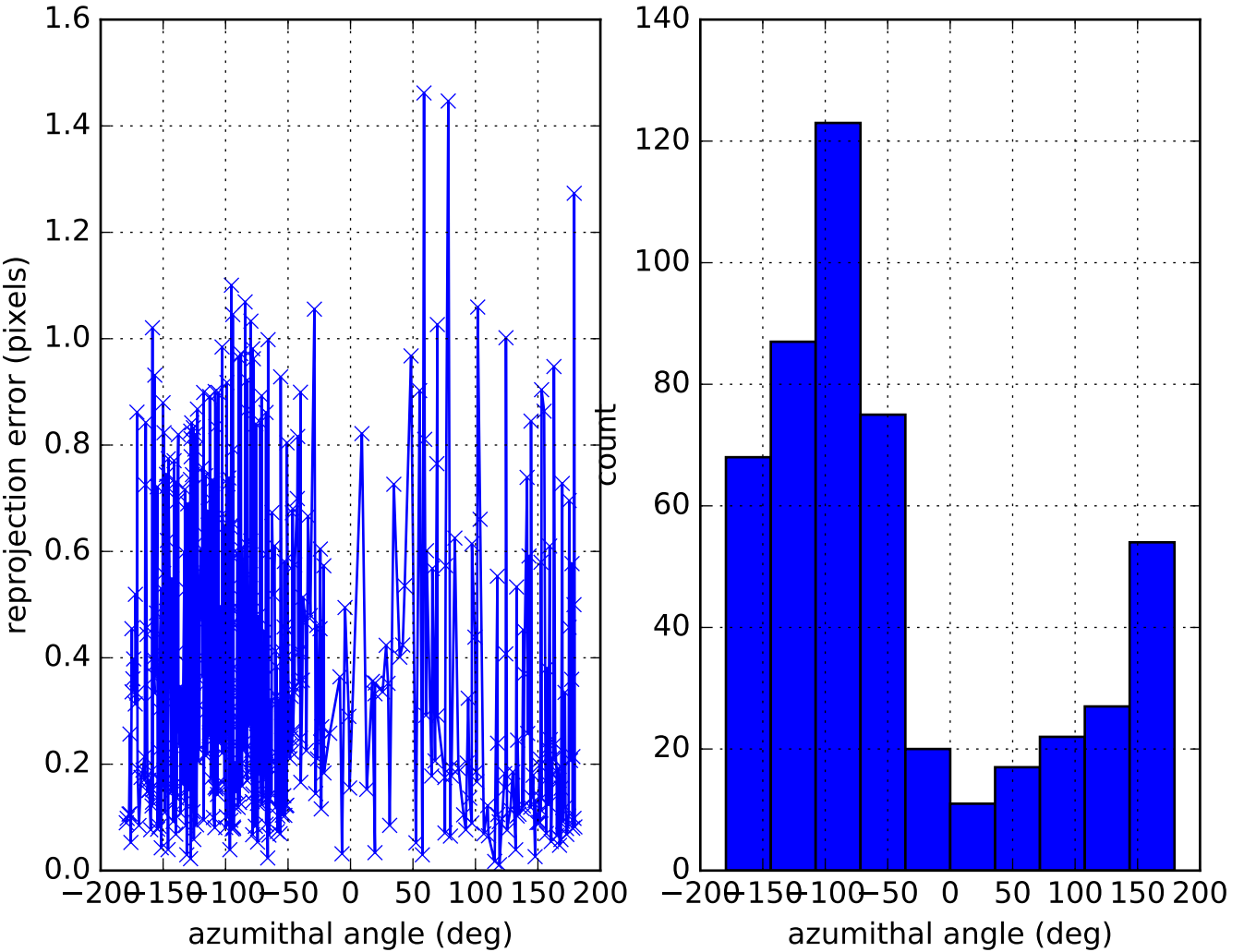
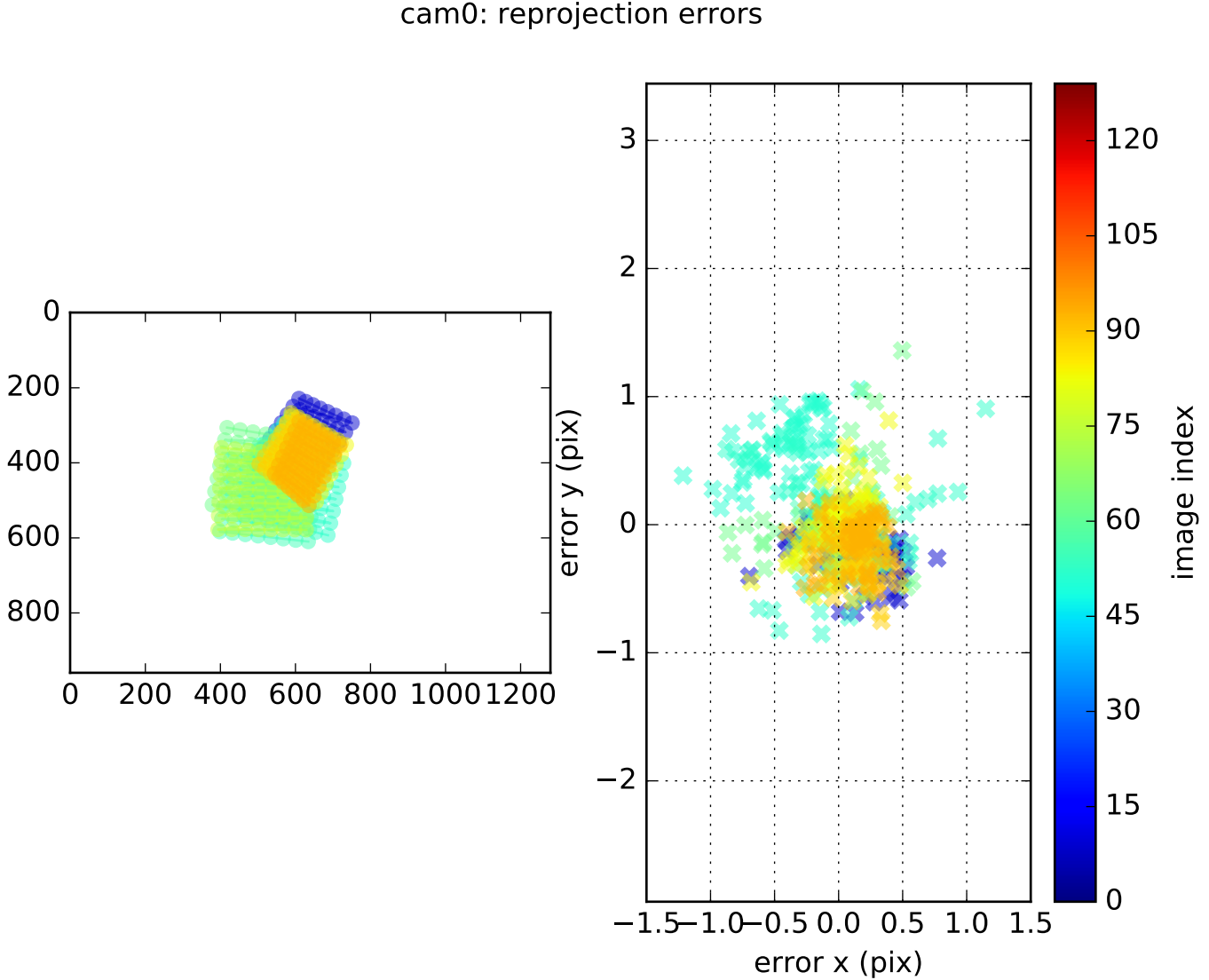
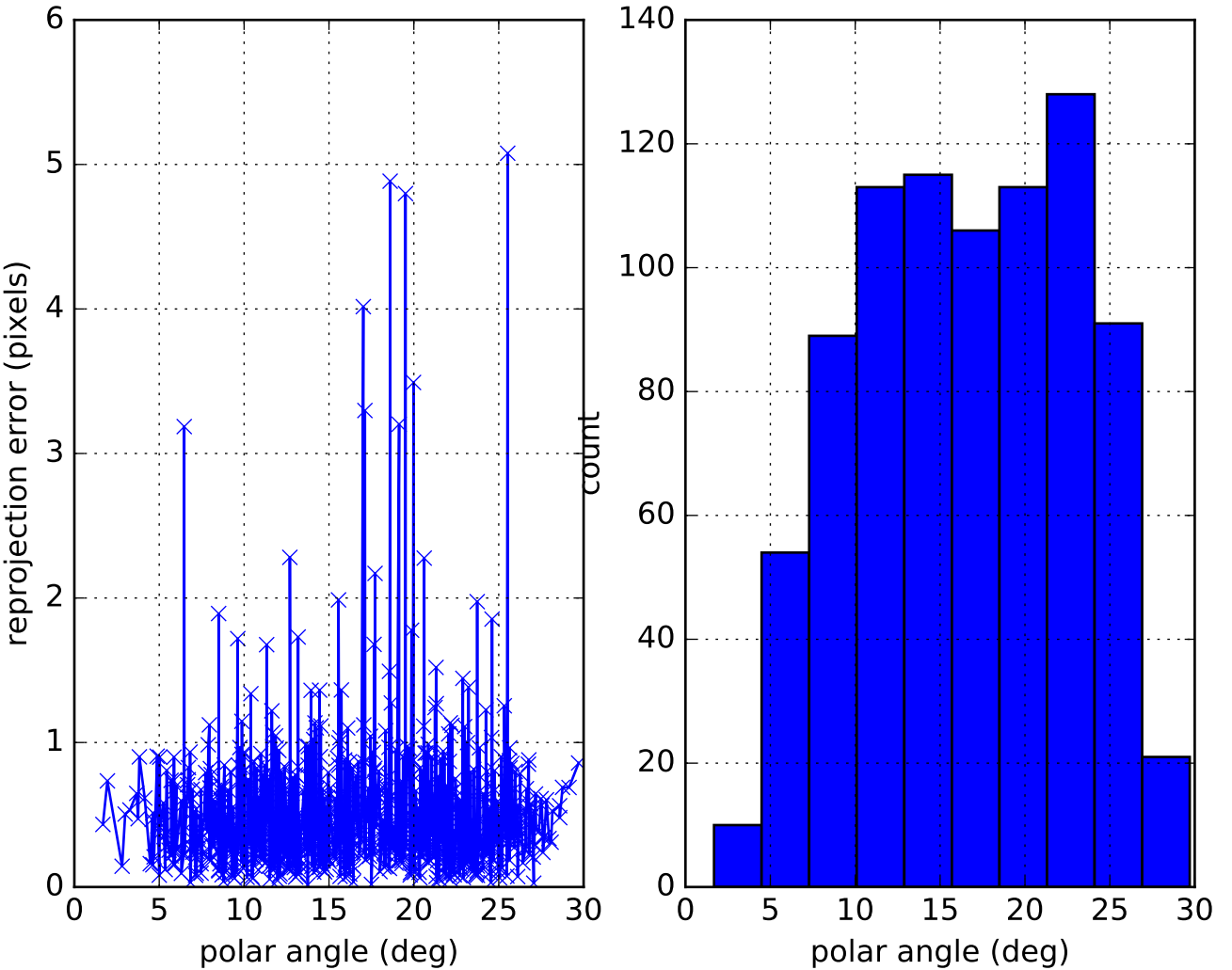

Inter-camera observations graph (edge weight=#mutual obs.)
cam17
224
cam16
280
cam15
56
cam14
280
cam13
280
cam12
280
cam11
280
cam10
280
cam9
280
cam8
280
cam7
280
cam6
280
cam5
280
cam4
280
cam3
224
cam2
280
cam1
280
cam0

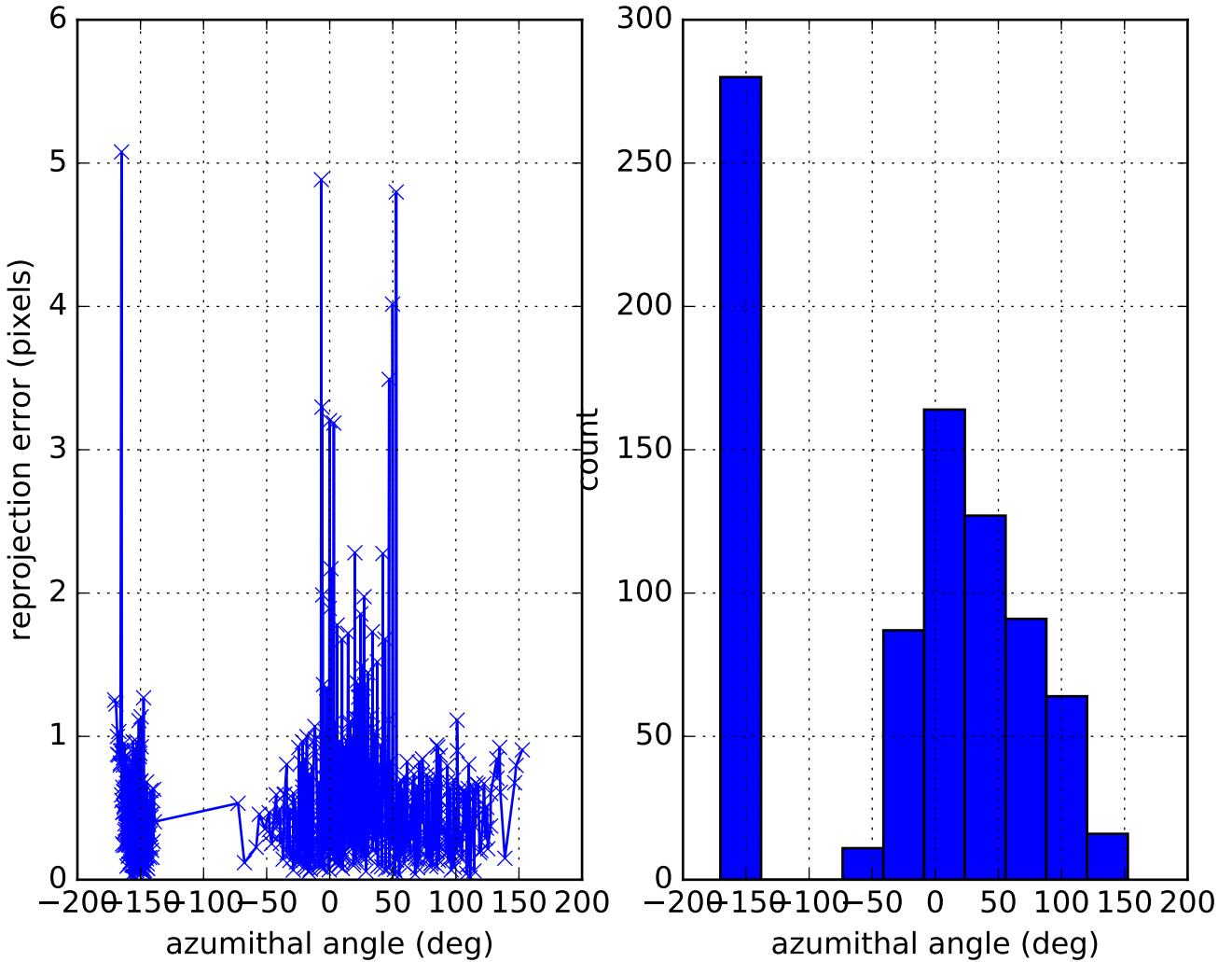

camera system
15
10
5
0
−5
−10
−15
15
10
5
0
−5
−10
−15
−15
−10
−5
0
5
10
15

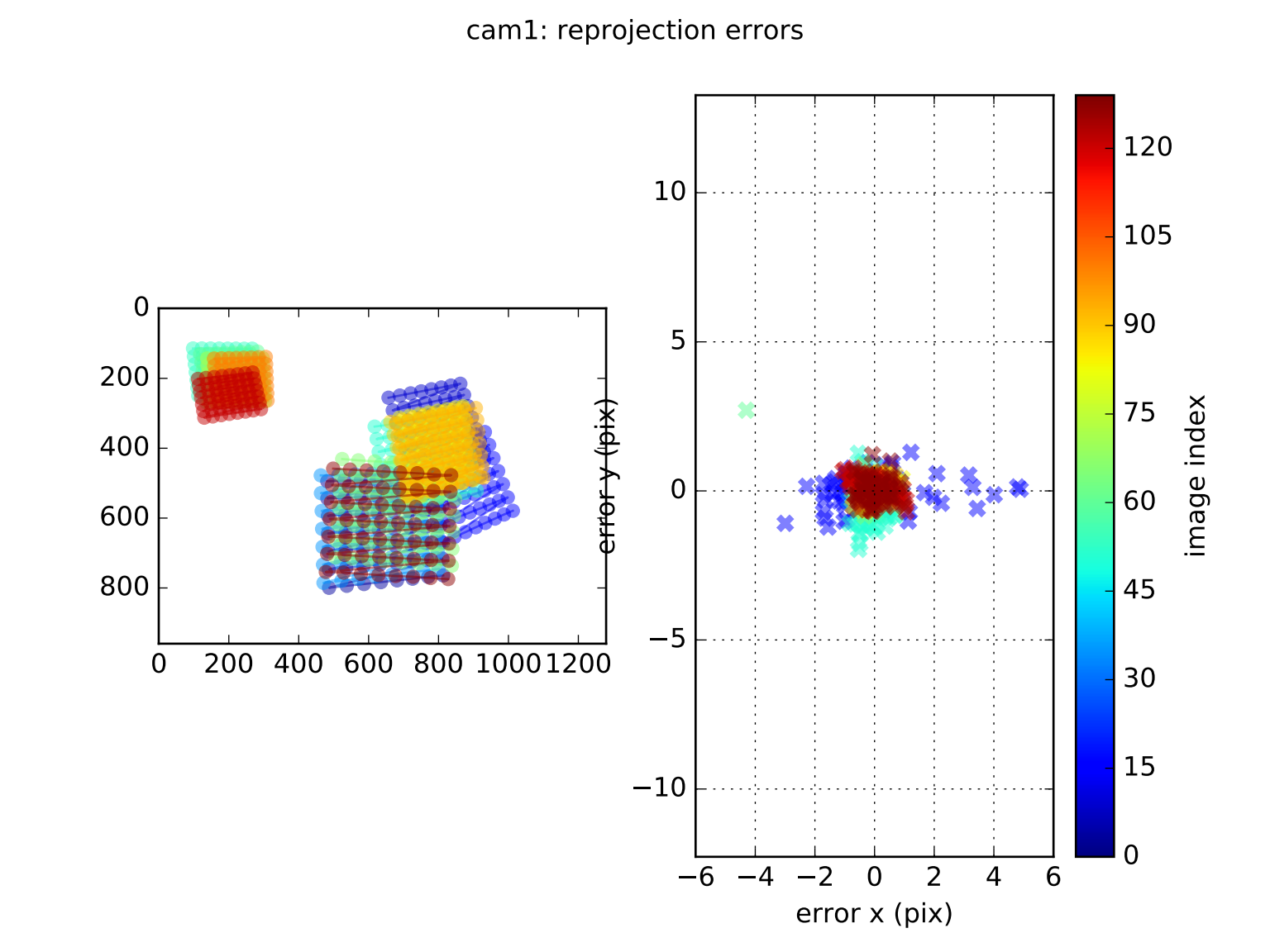

cam0: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)

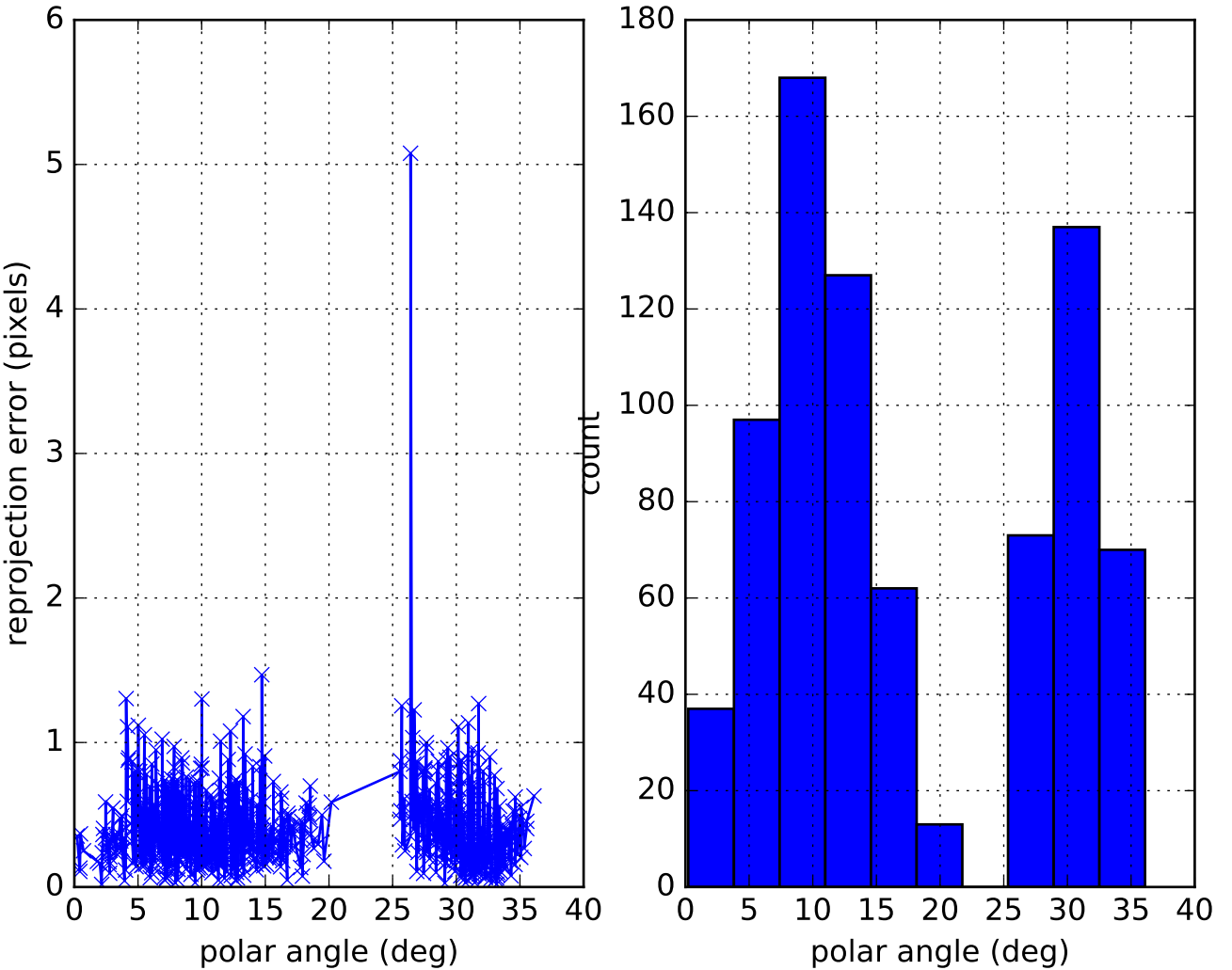

cam0: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)

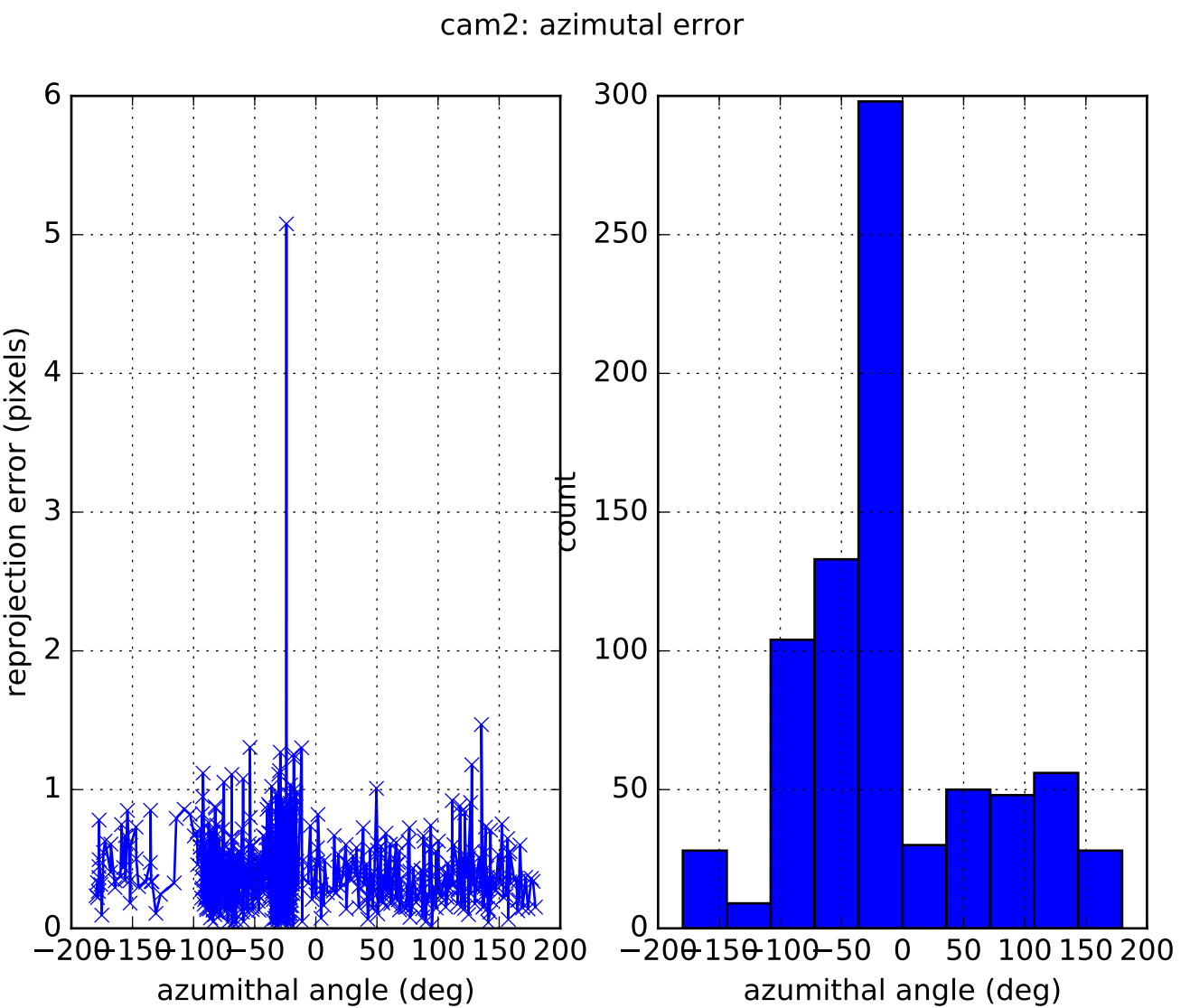

cam0: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
3
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5
error x (pix)
120
105
90
75
60
45
30
15
0
image index

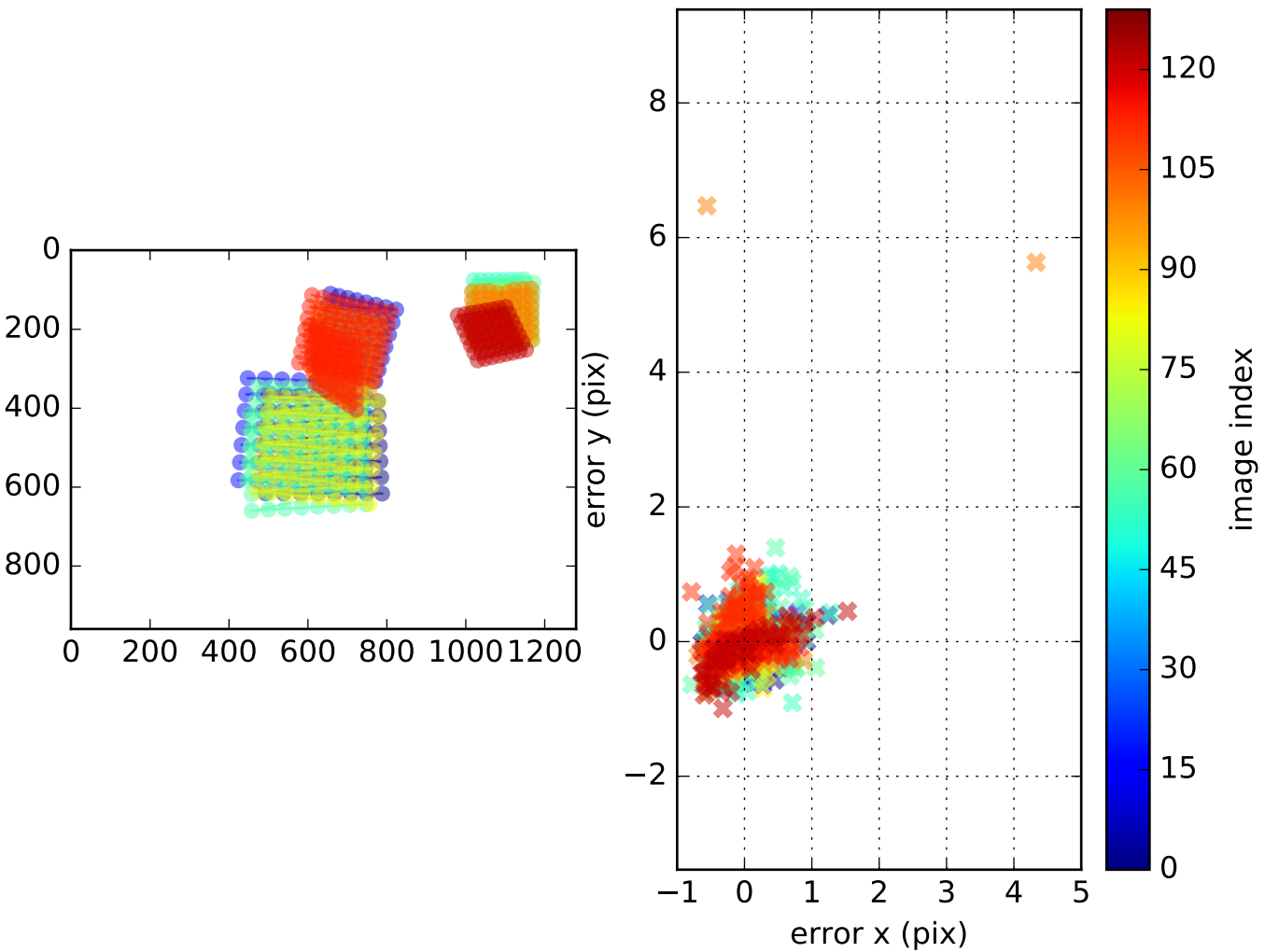

cam1: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
1
2
3
4
5
6
0
5
10
15
20
25
30
0
20
40
60
80
100
120
140

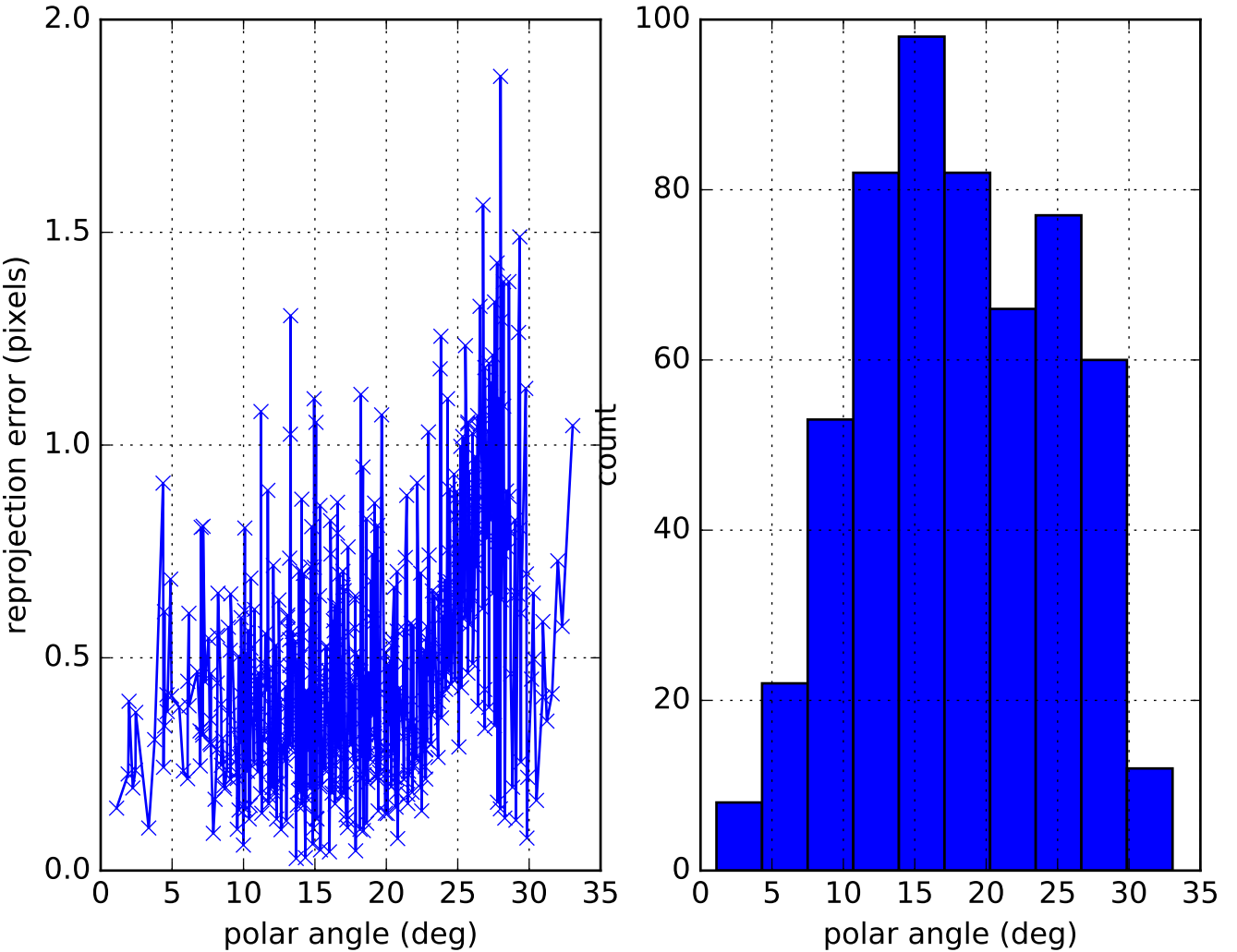

cam1: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)
0
1
2
3
4
5
6
50
100
150
200
250
300
−200
−150
−100
−50
0
50
100
150
200

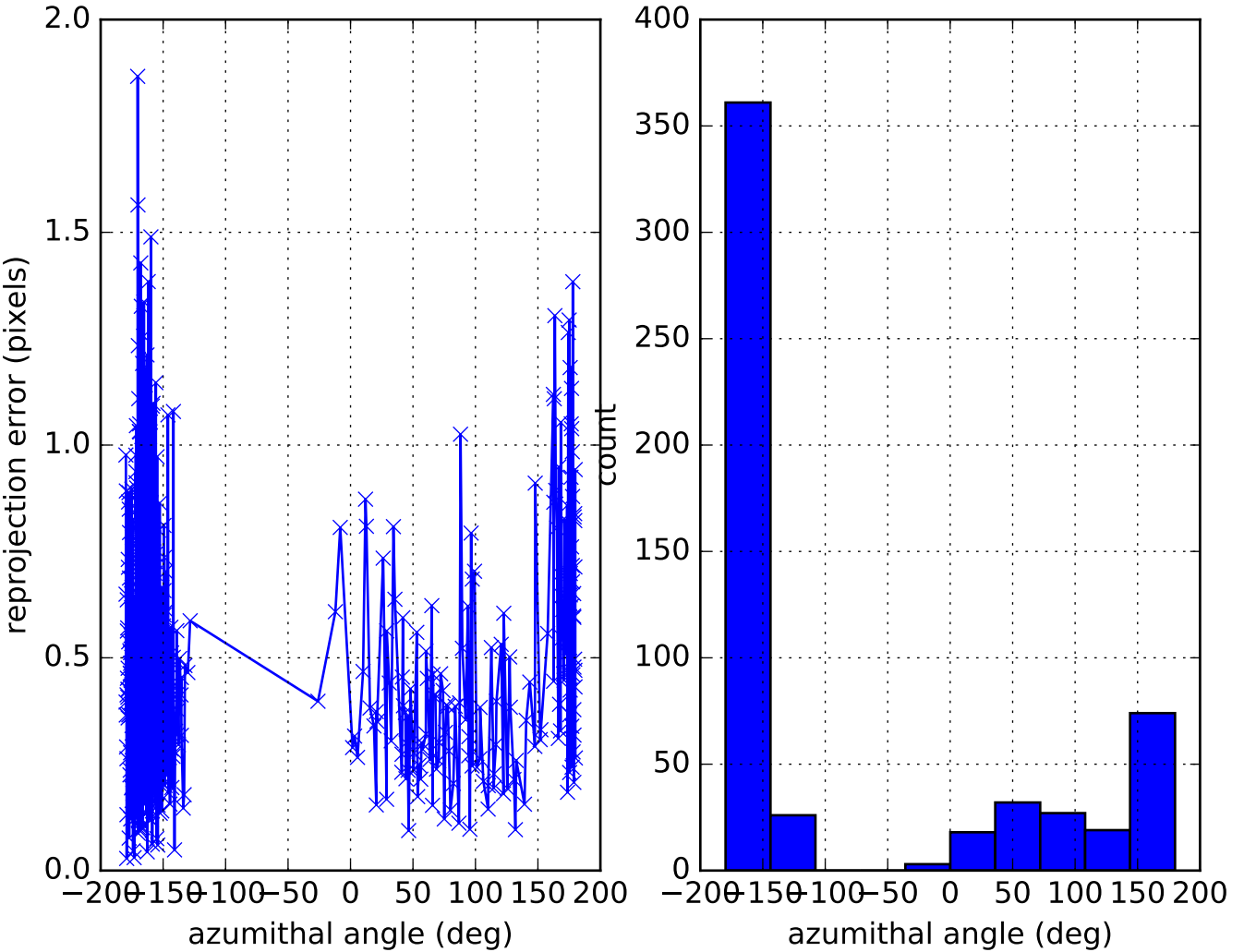

cam1: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
10
5
0
−5
−10
−6
−4
−2
0
2
4
6
error x (pix)
120
105
90
75
60
45
30
15
0
image index

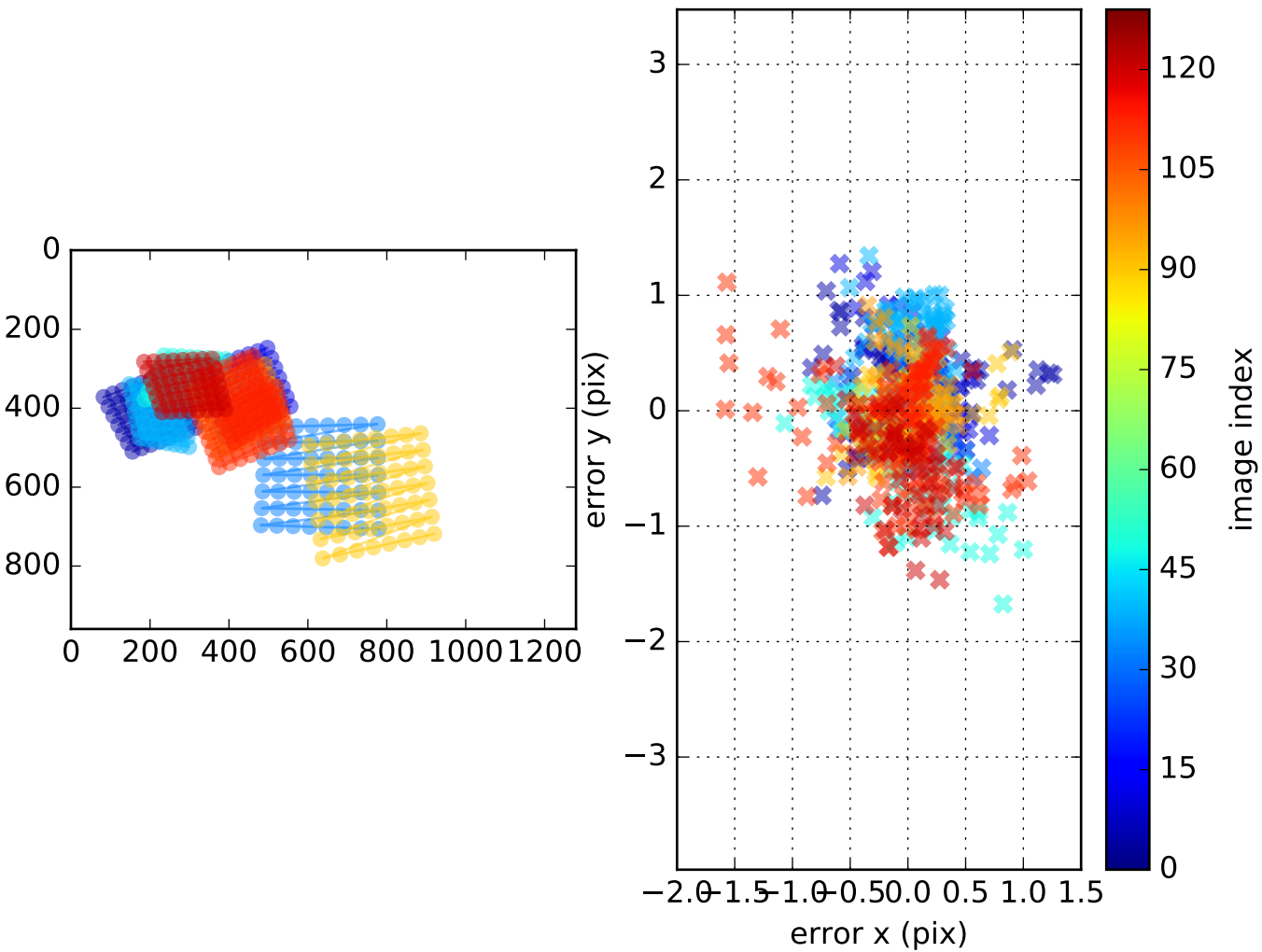

cam2: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
1
2
3
4
5
6
0
20
40
60
80
100
120
140
160
180
0
5
10
15
20
25
30
35
40

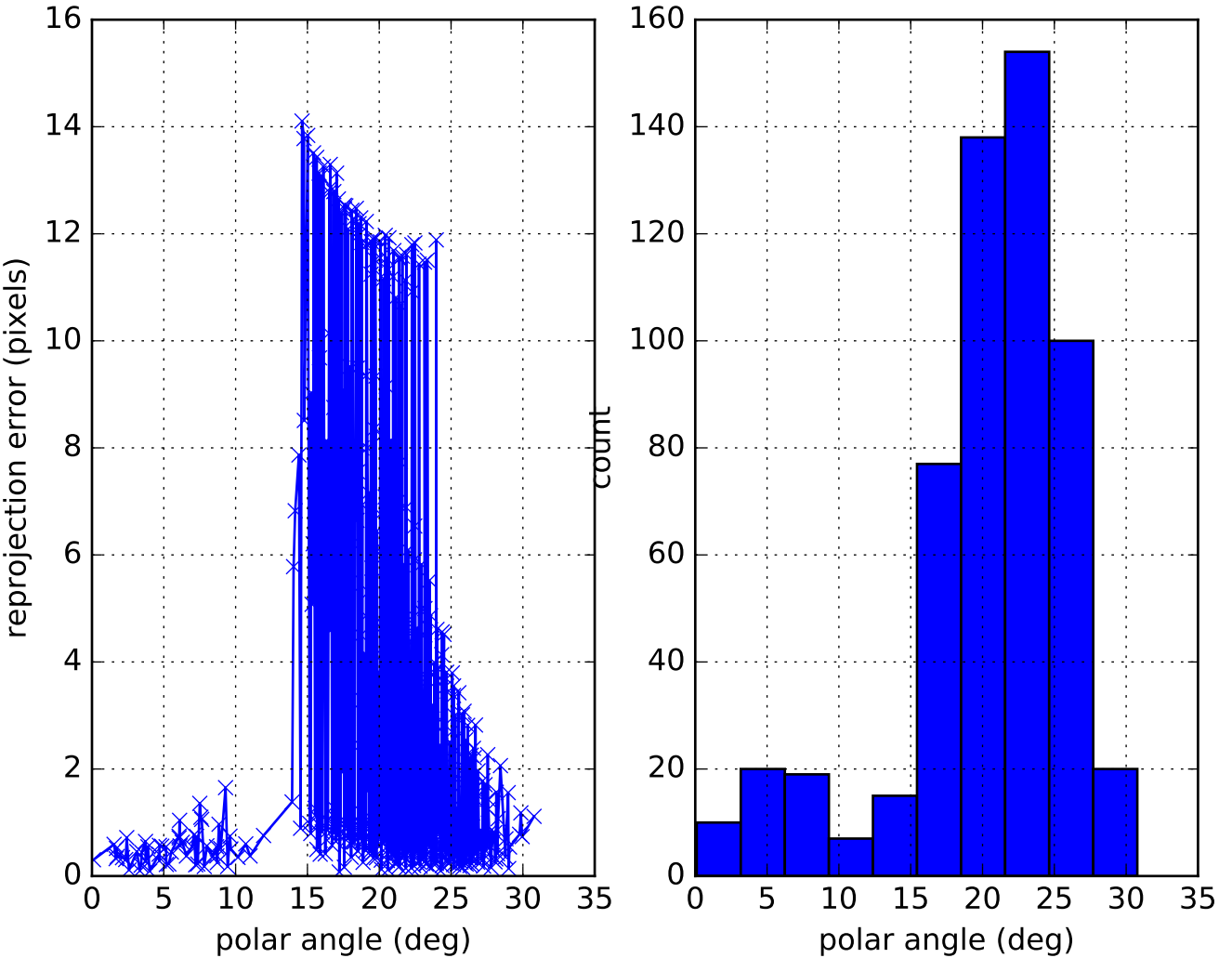

cam2: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

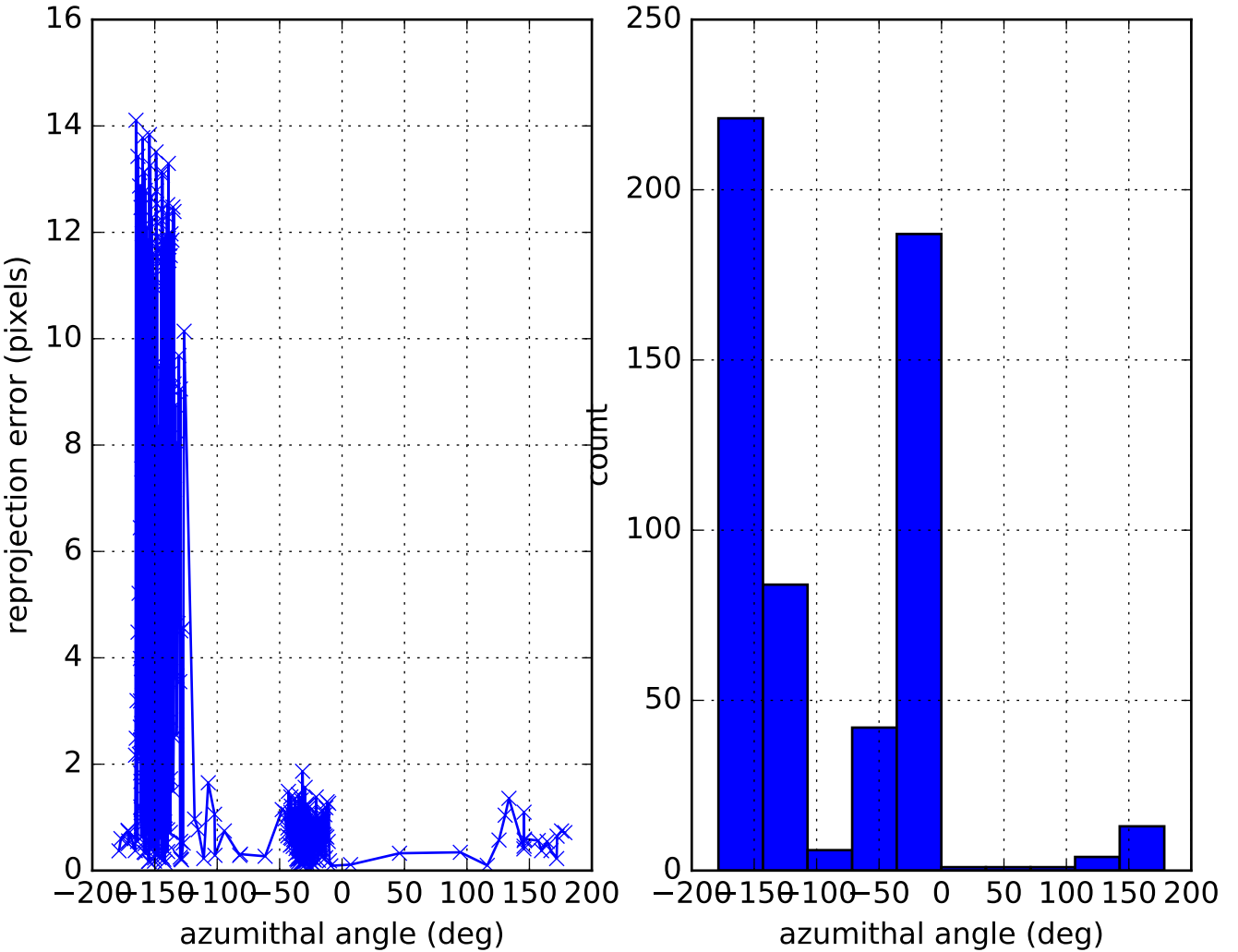

cam2: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
8
6
4
2
0
−2
−1
0
1
2
3
4
5
error x (pix)
120
105
90
75
60
45
30
15
0
image index

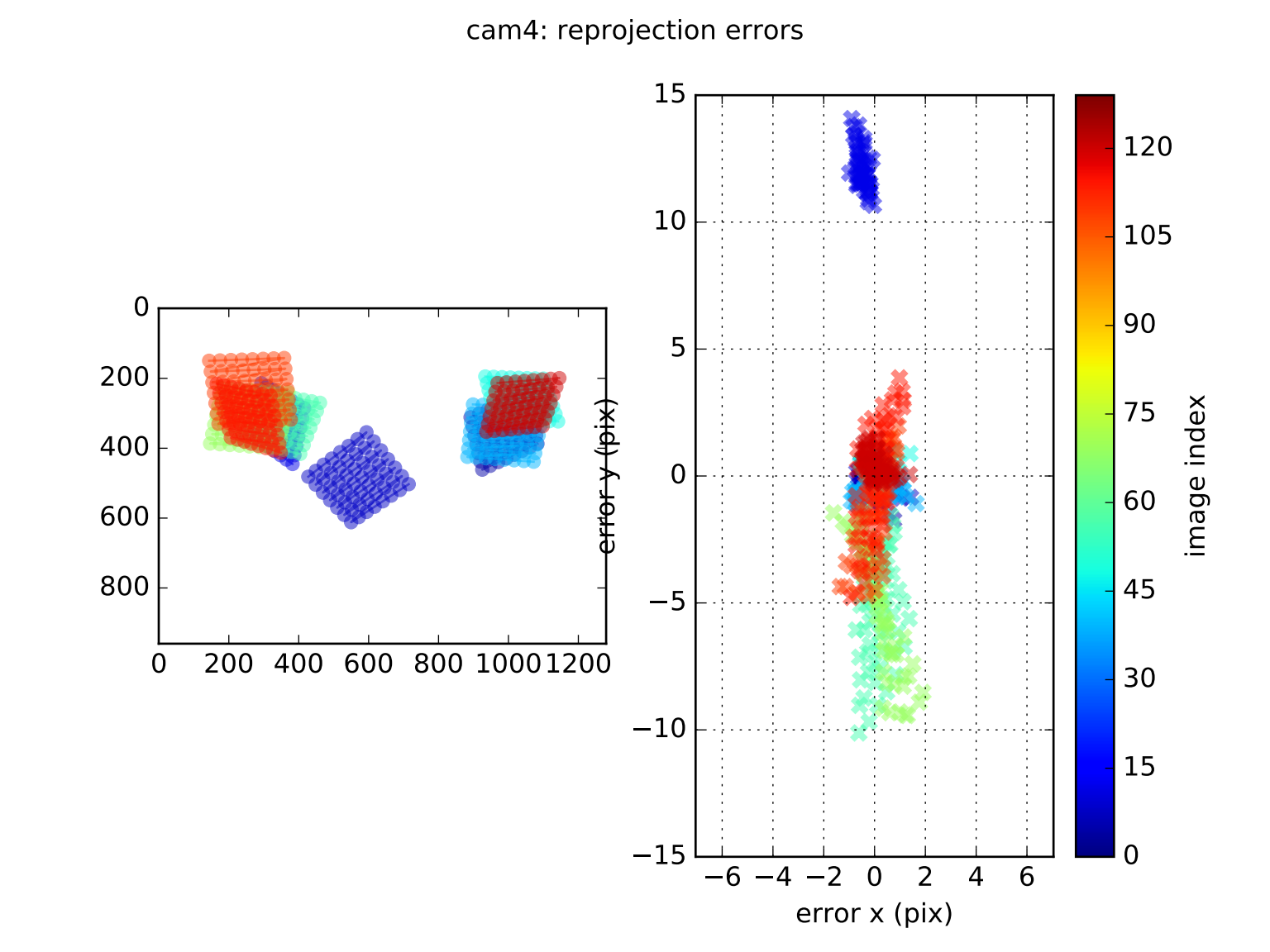

cam3: polar error
reprojection error (pixels)
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
35
polar angle (deg)
count
100
80
60
40
20
0
0
5
10
15
20
25
30
35
polar angle (deg)

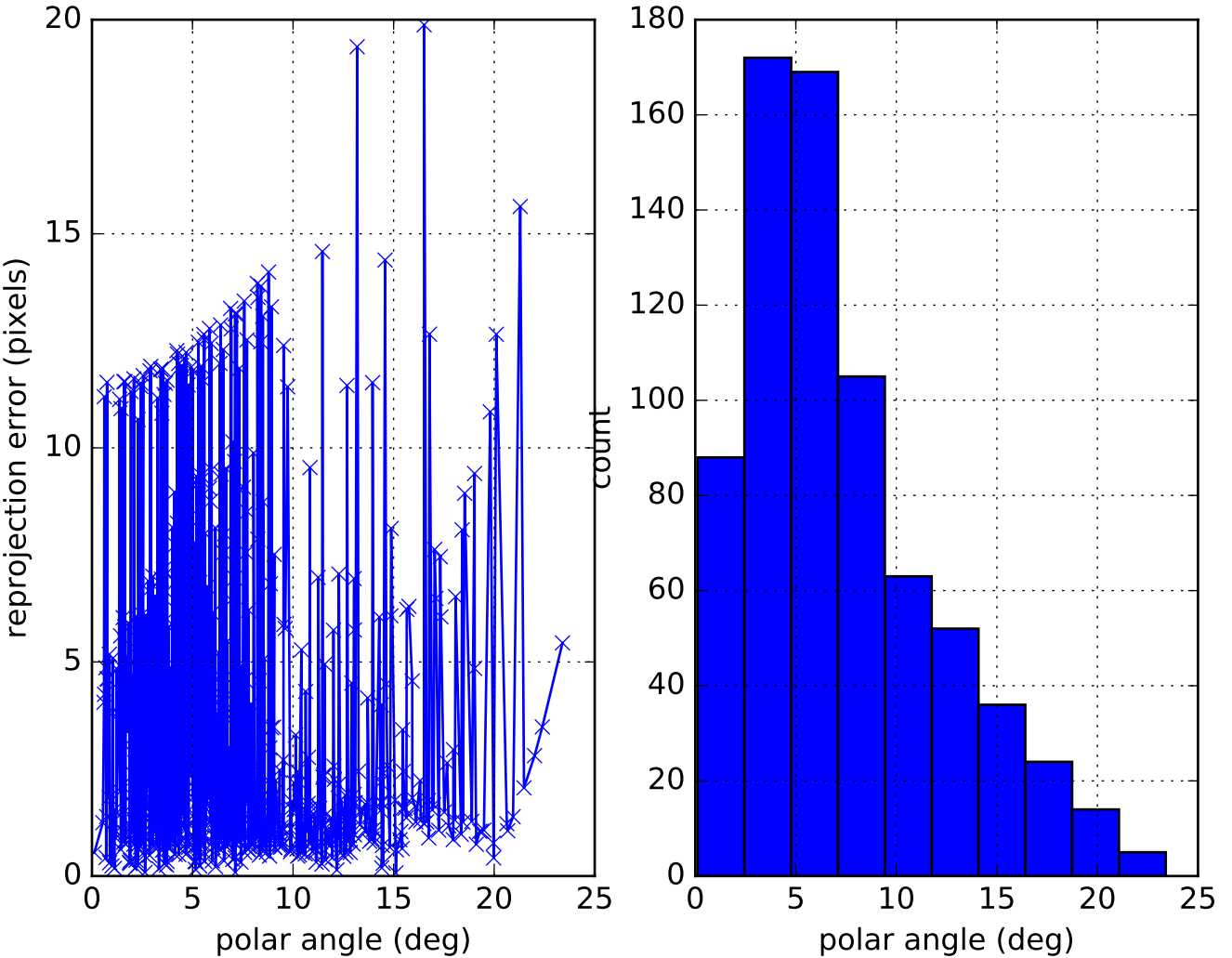

cam3: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

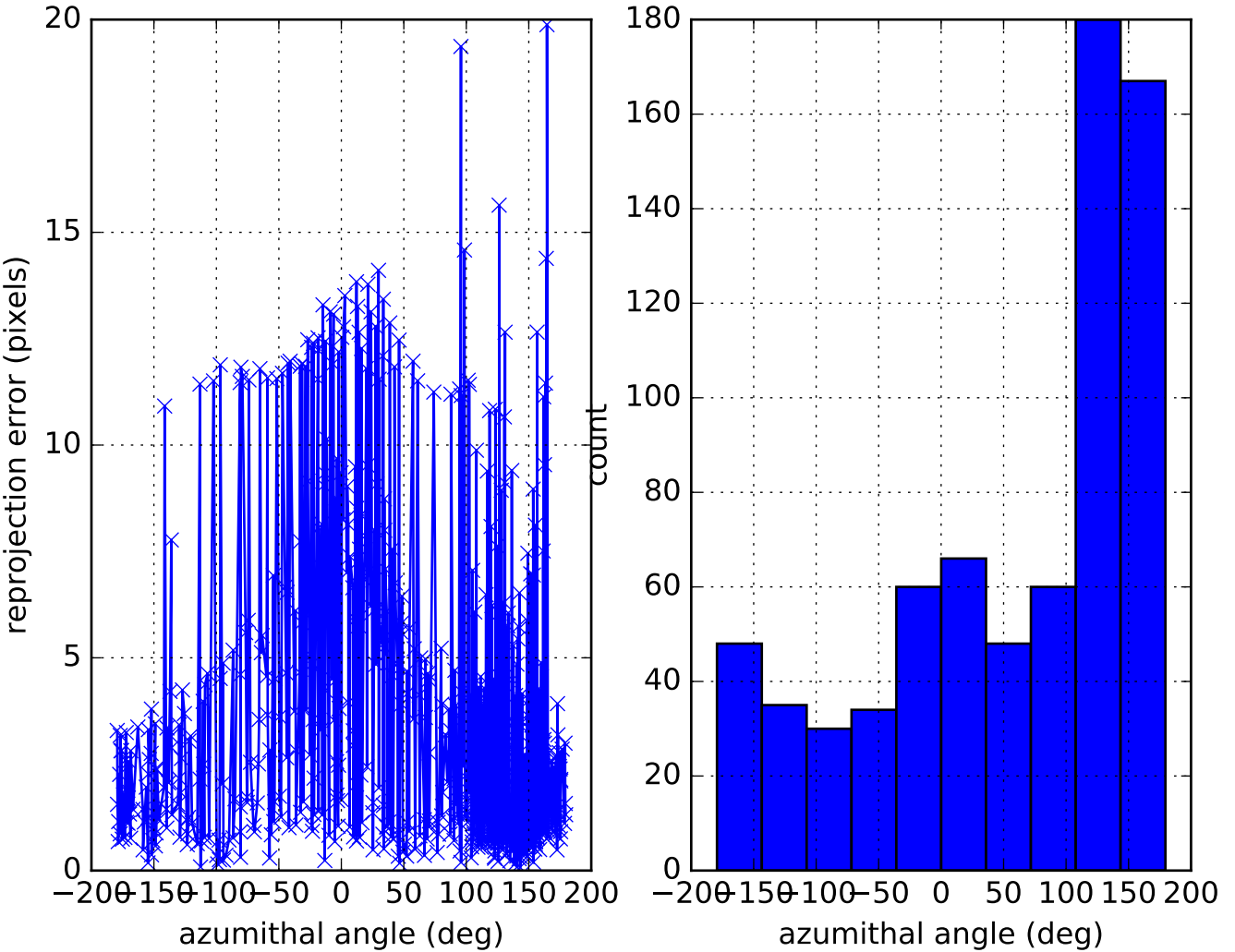

cam3: reprojection errors
0
200
400
600
800
0 200 400 600 800 1000 1200
3
2
1
0
−1
−2
−3
error y (pix)
−2.0 −1.5 −1.0 −0.5 0.0 0.5 1.0 1.5
error x (pix)
120
105
90
75
60
45
30
15
0
image index

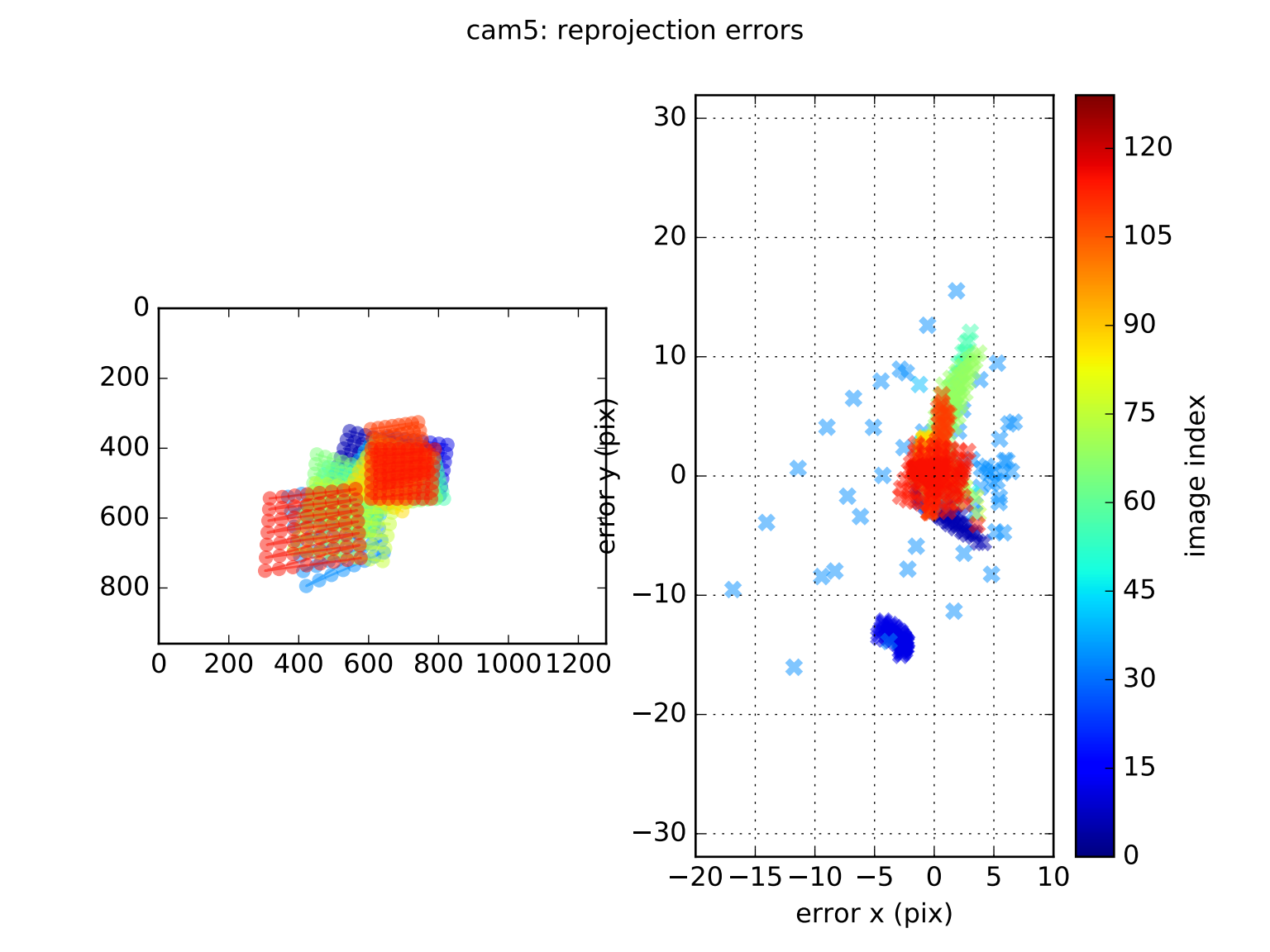

cam4: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100
120
140
160
0
5
10
15
20
25
30
35

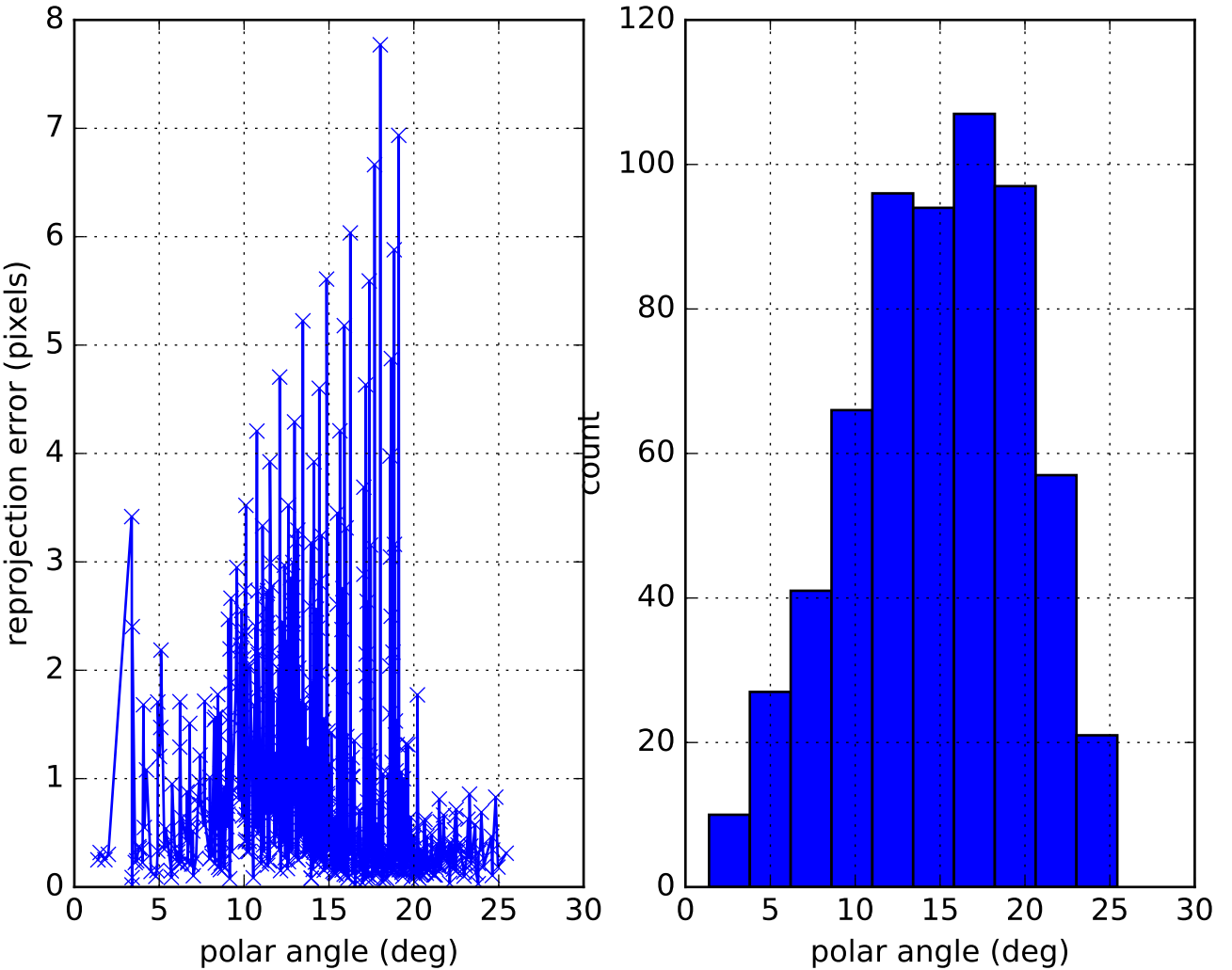

cam4: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

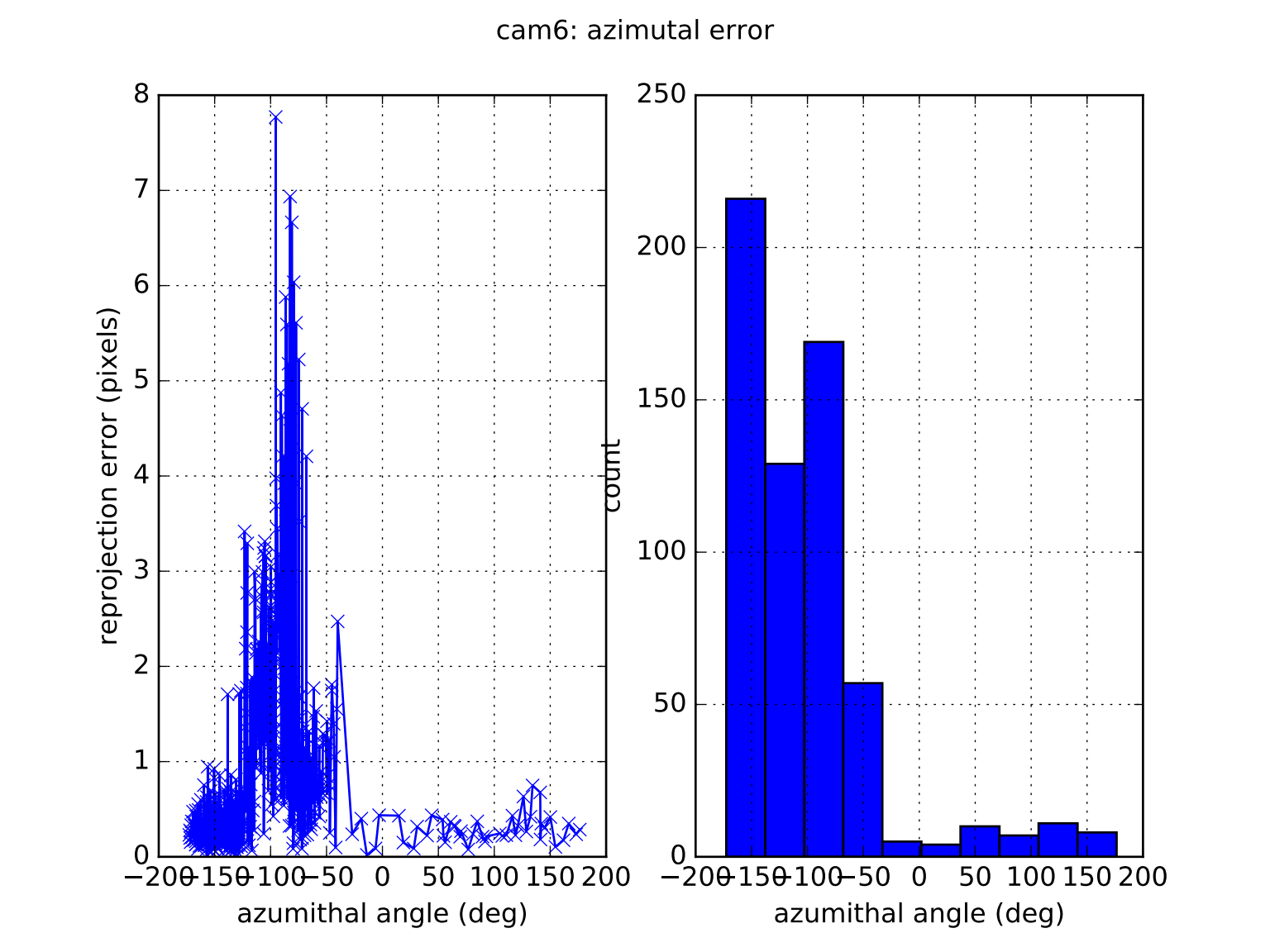

cam4: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
15
10
5
0
−5
−10
−15
−6
−4
−2
0
2
4
6
error x (pix)
120
105
90
75
60
45
30
15
0
image index

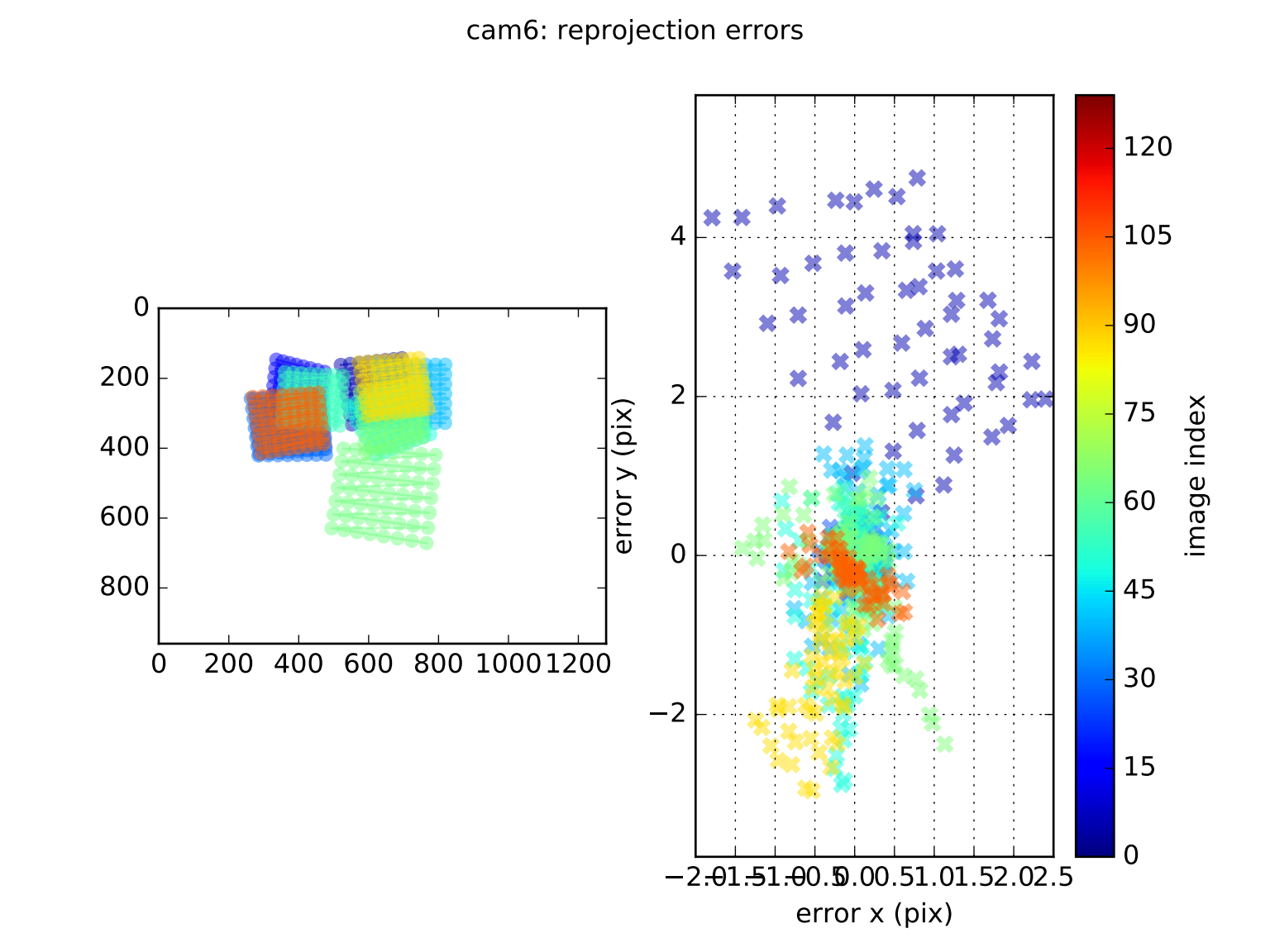

cam5: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
5
10
15
20
25
0
20
40
60
80
100
120
140
160
180

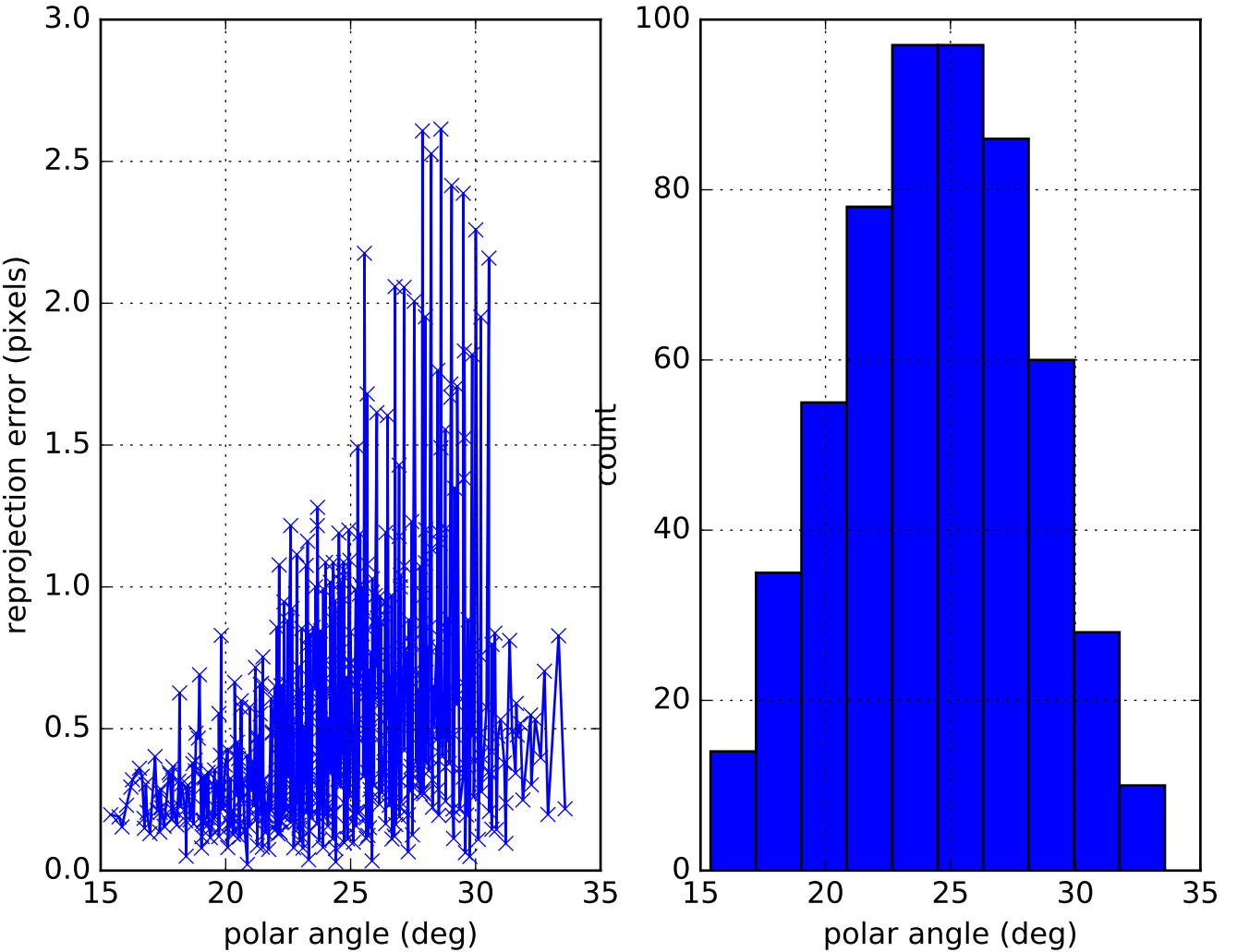

cam5: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

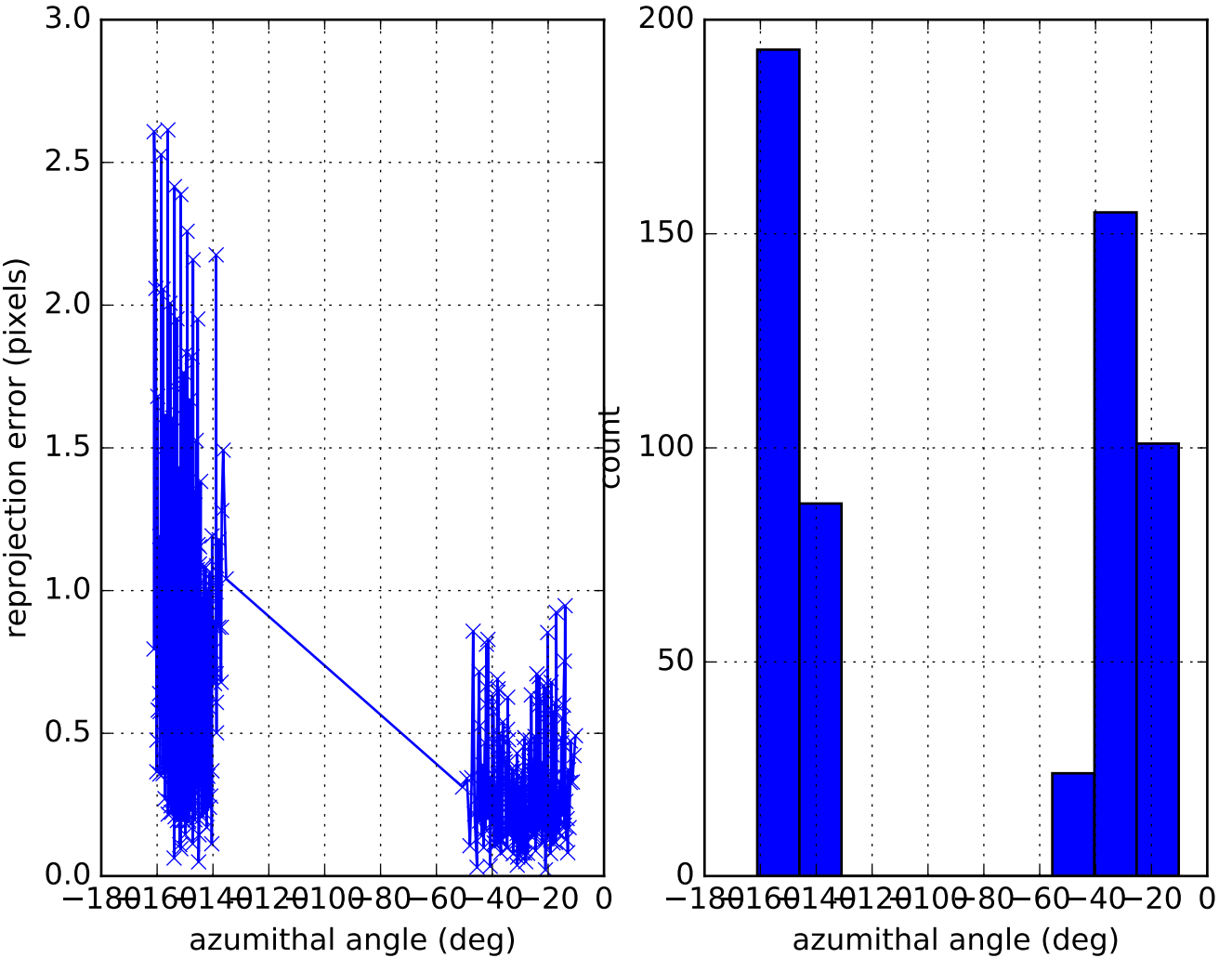

cam5: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
30
20
10
0
−10
−20
−30
−20
−15
−10
−5
0
5
10
error x (pix)
120
105
90
75
60
45
30
15
0
image index

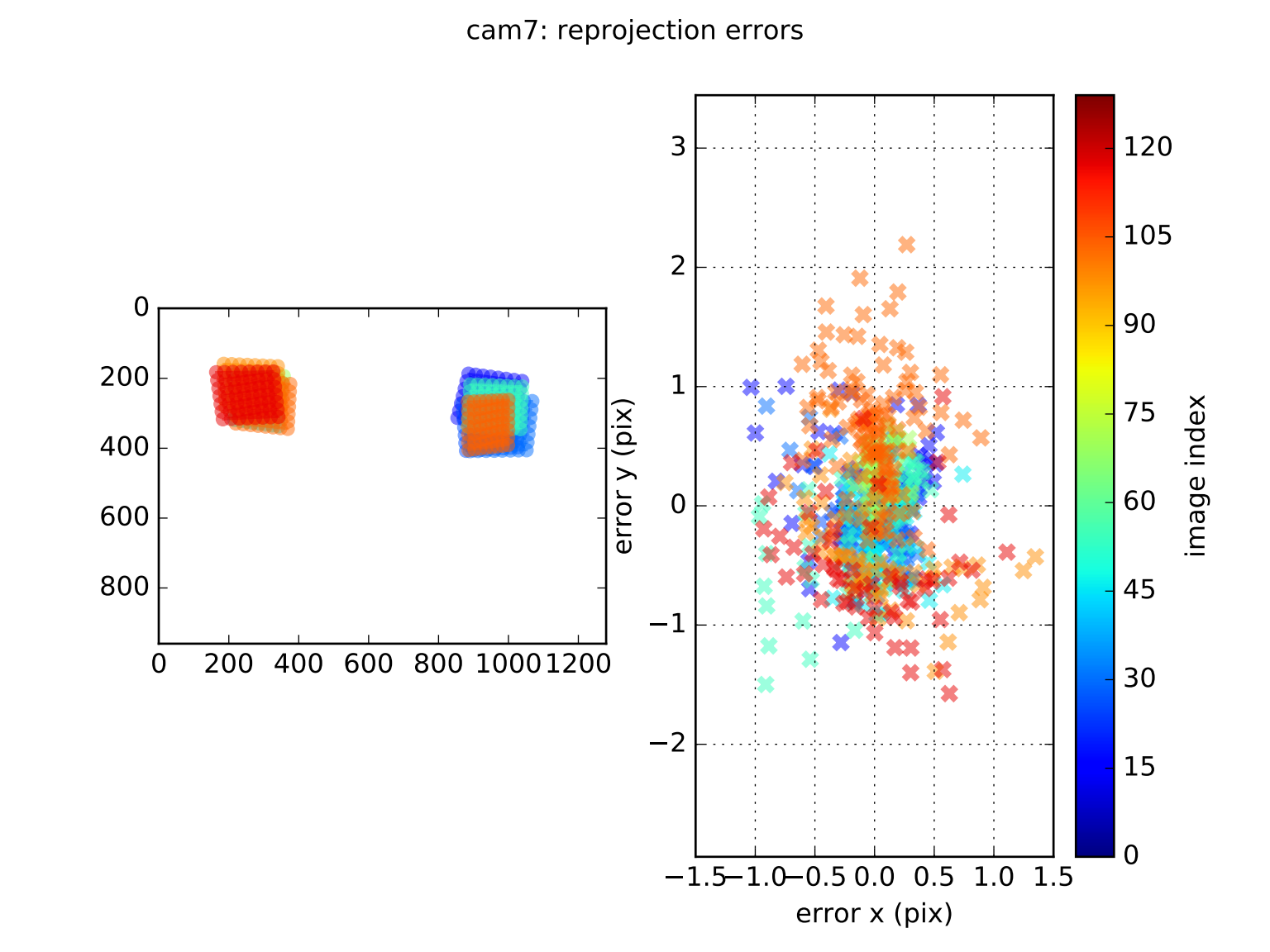

cam6: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120
0
5
10
15
20
25
30

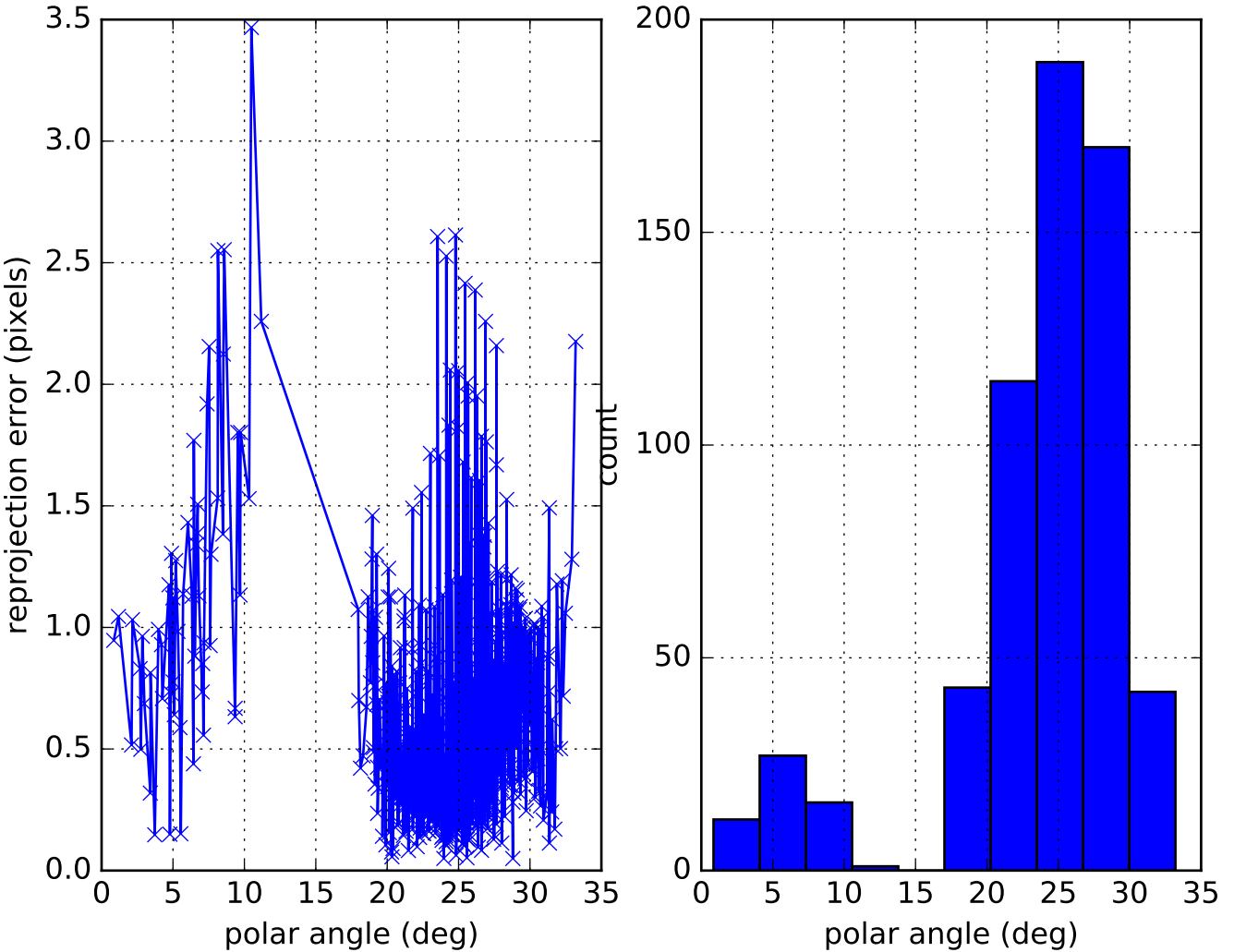

cam6: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

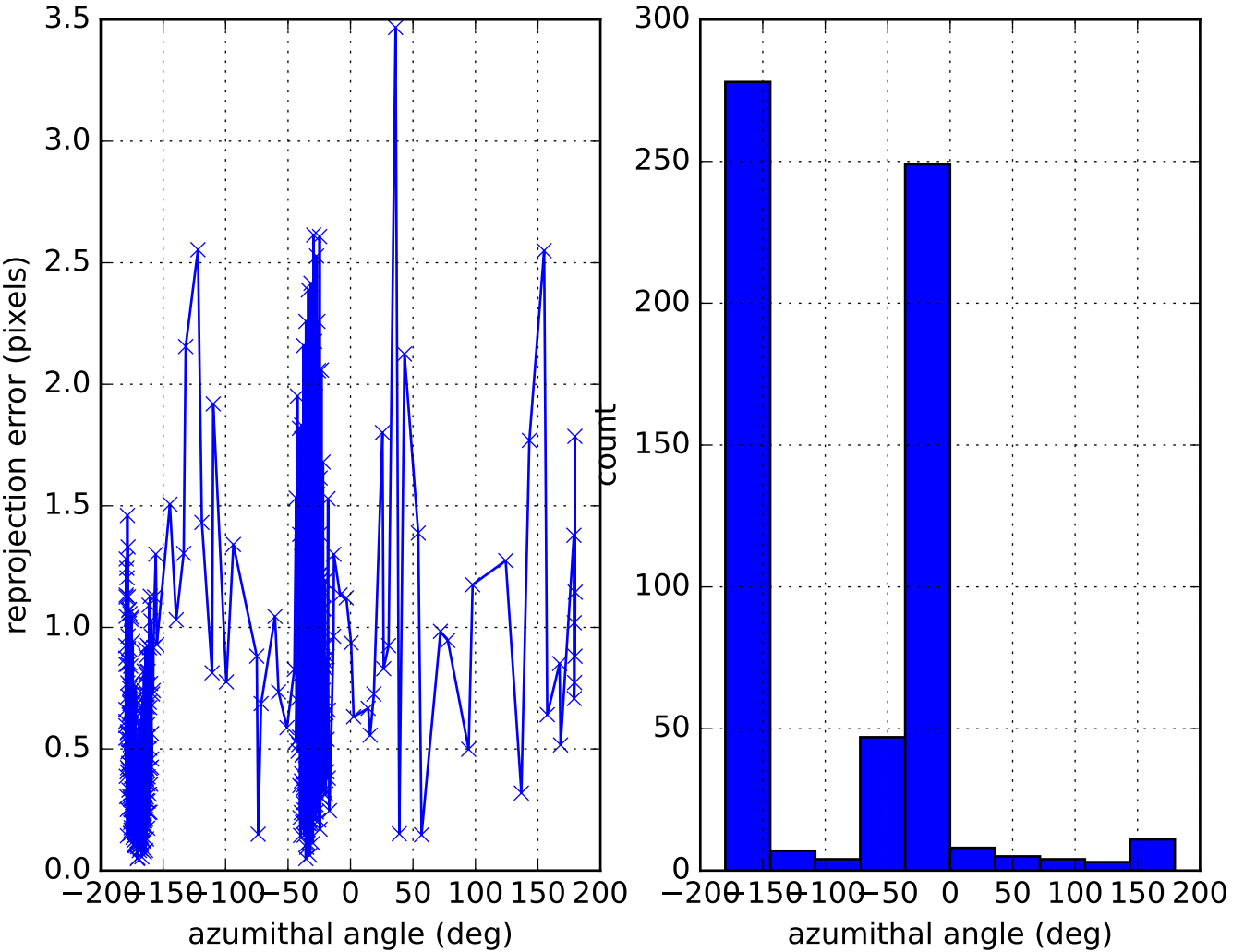

cam6: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
4
2
0
−2
−2.0
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
error x (pix)
120
105
90
75
60
45
30
15
0
image index

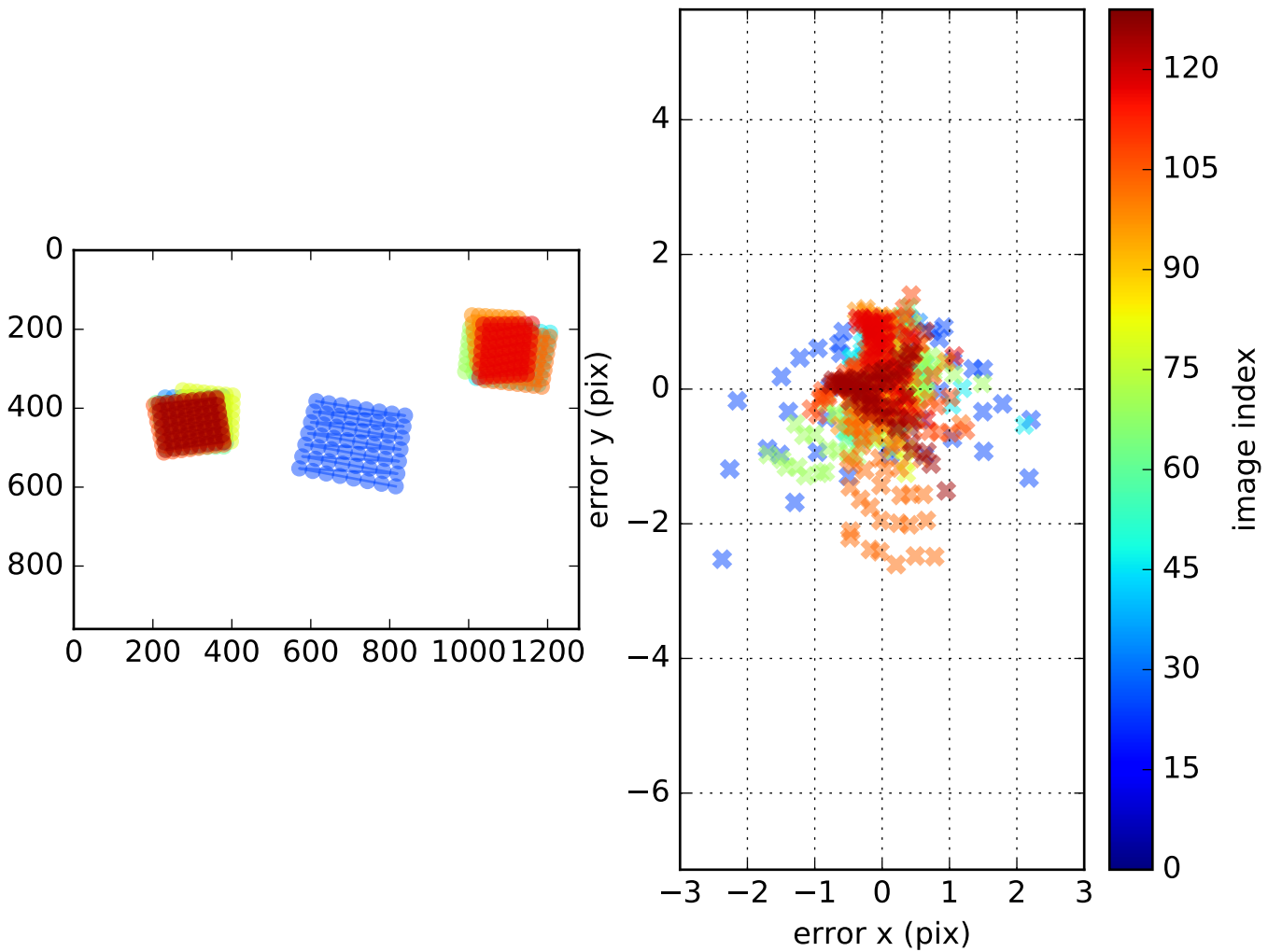

cam7: polar error
reprojection error (pixels)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
15
20
25
30
35
polar angle (deg)
count
100
80
60
40
20
0
15
20
25
30
35
polar angle (deg)

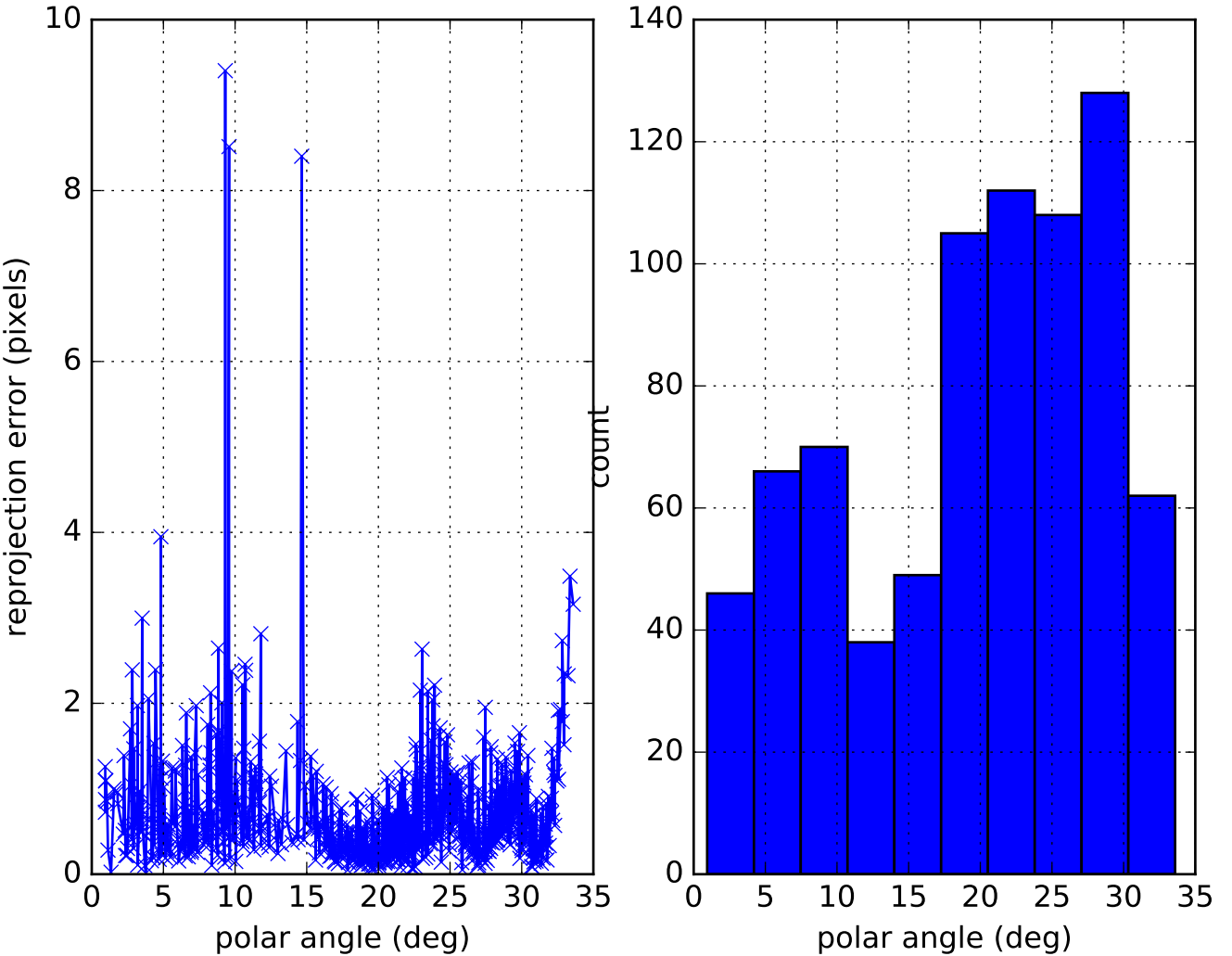

cam7: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

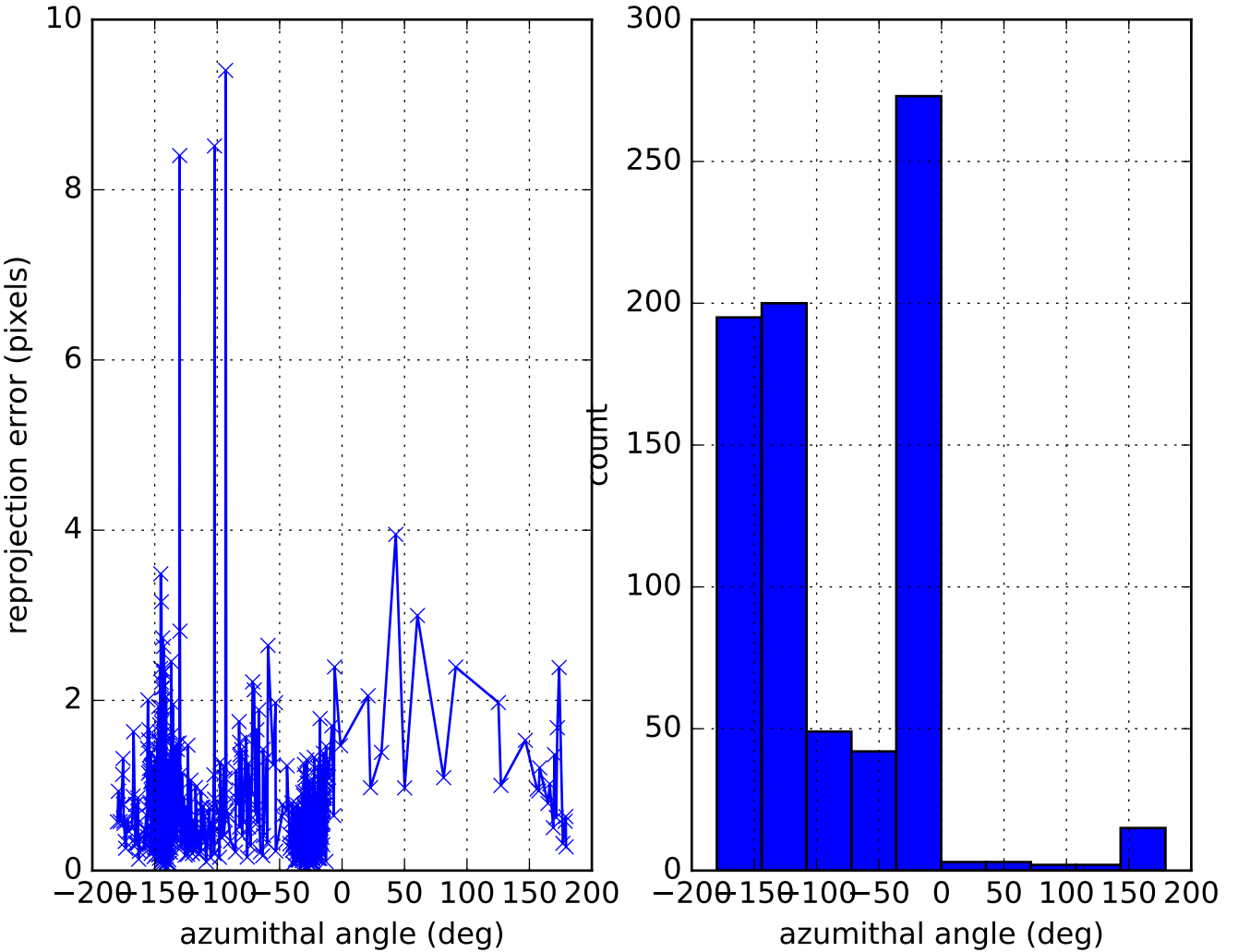

cam7: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
3
2
1
0
−1
−2
−1.5
−1.0
−0.5
0.0
0.5
1.0
1.5
error x (pix)
120
105
90
75
60
45
30
15
0
image index

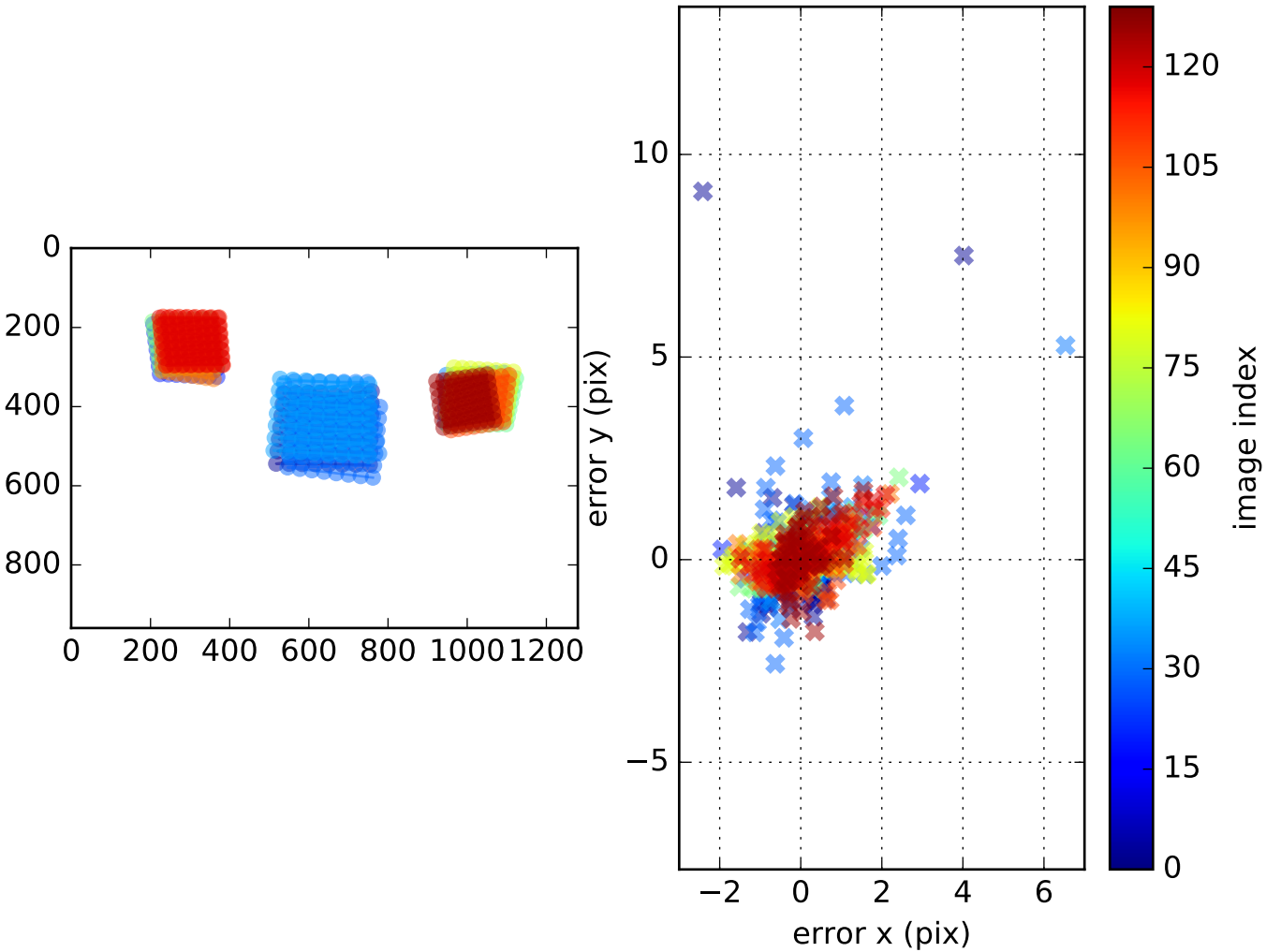

cam8: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20
25
30
35
0
50
100
150
200

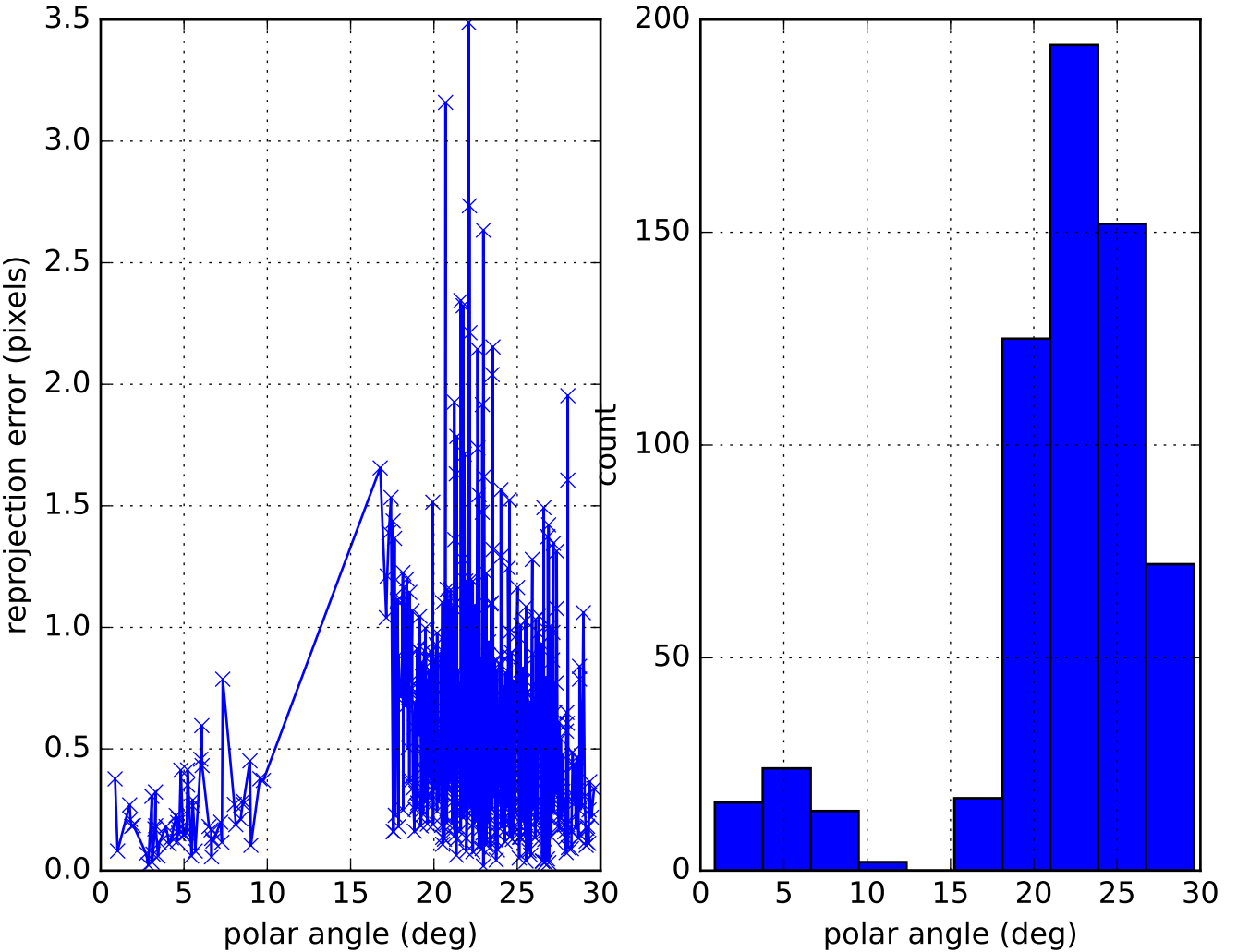

cam8: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)

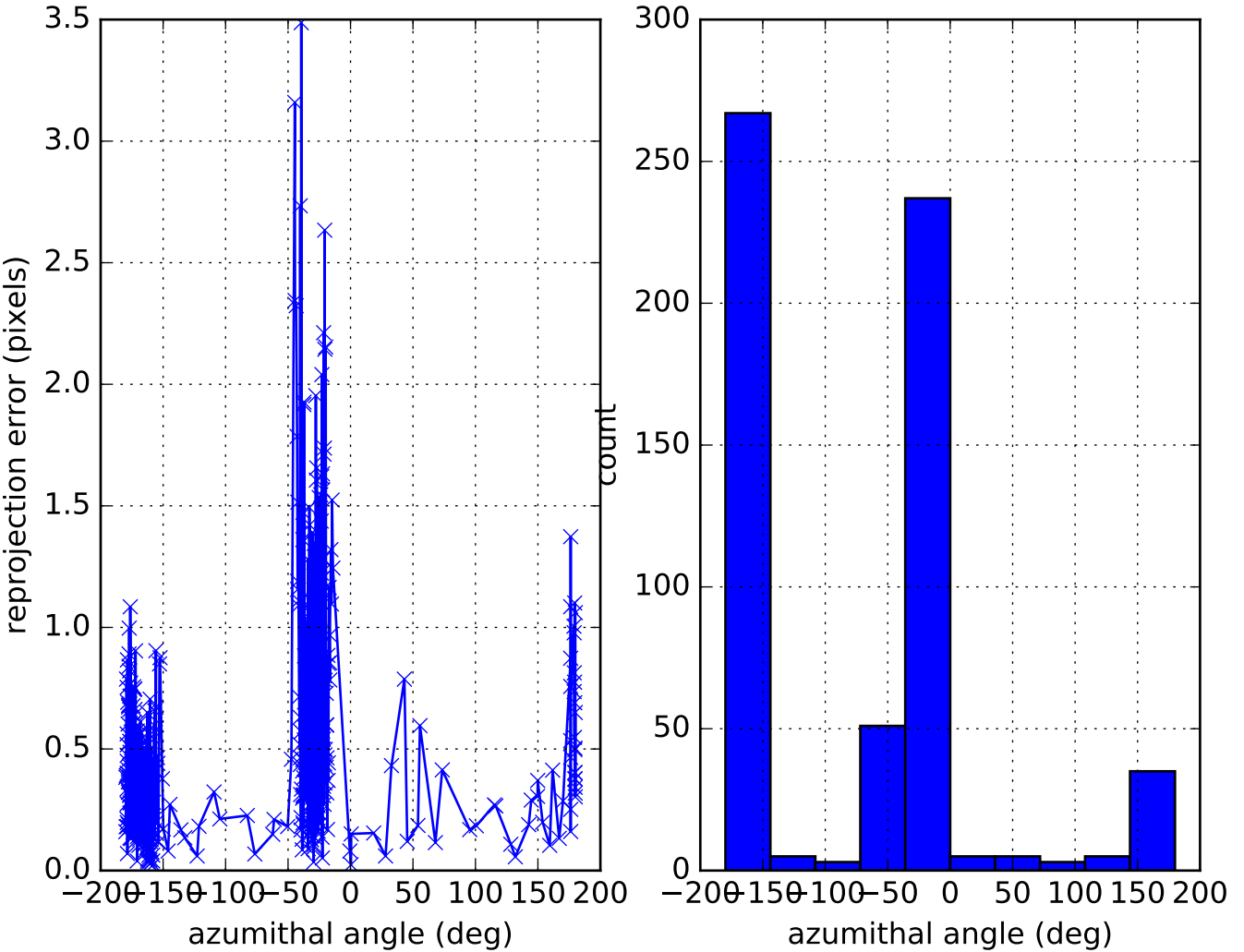

cam8: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
4
2
0
−2
−4
−6
−3
−2
−1
0
1
2
3
error x (pix)
120
105
90
75
60
45
30
15
0
image index

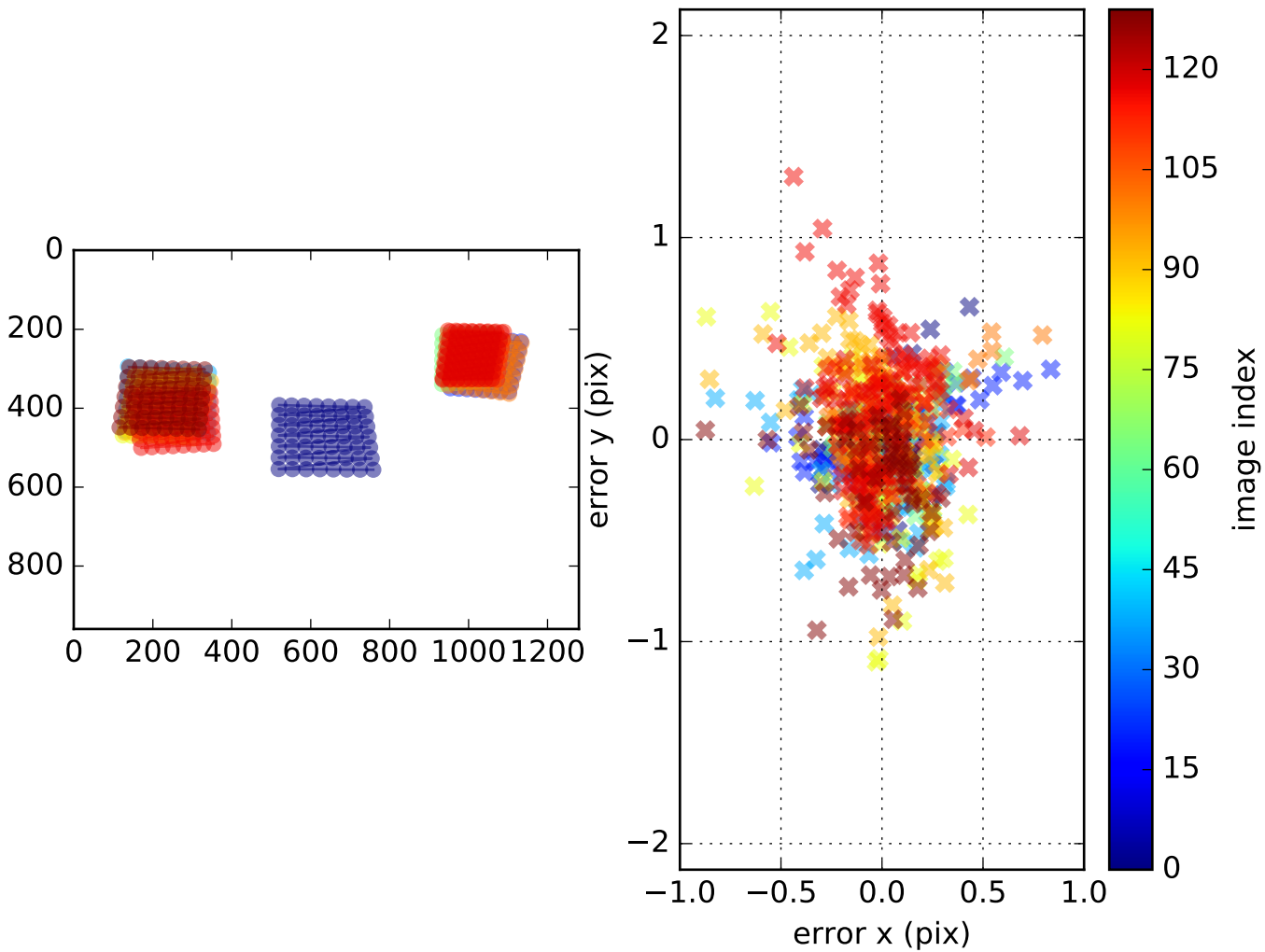

cam9: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0
2
4
6
8
10
0
20
40
60
80
100
120
140
0
5
10
15
20
25
30
35

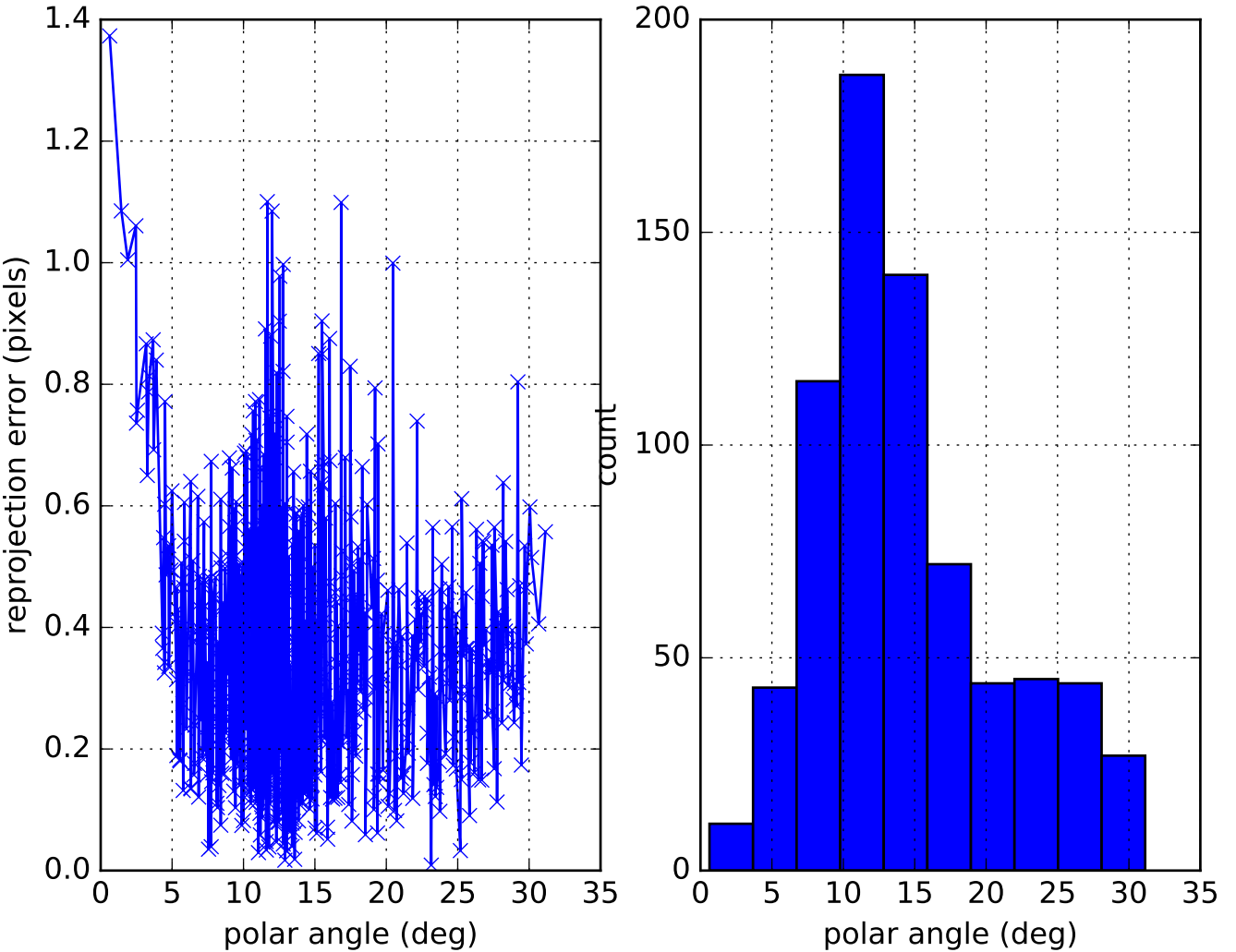

cam9: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)

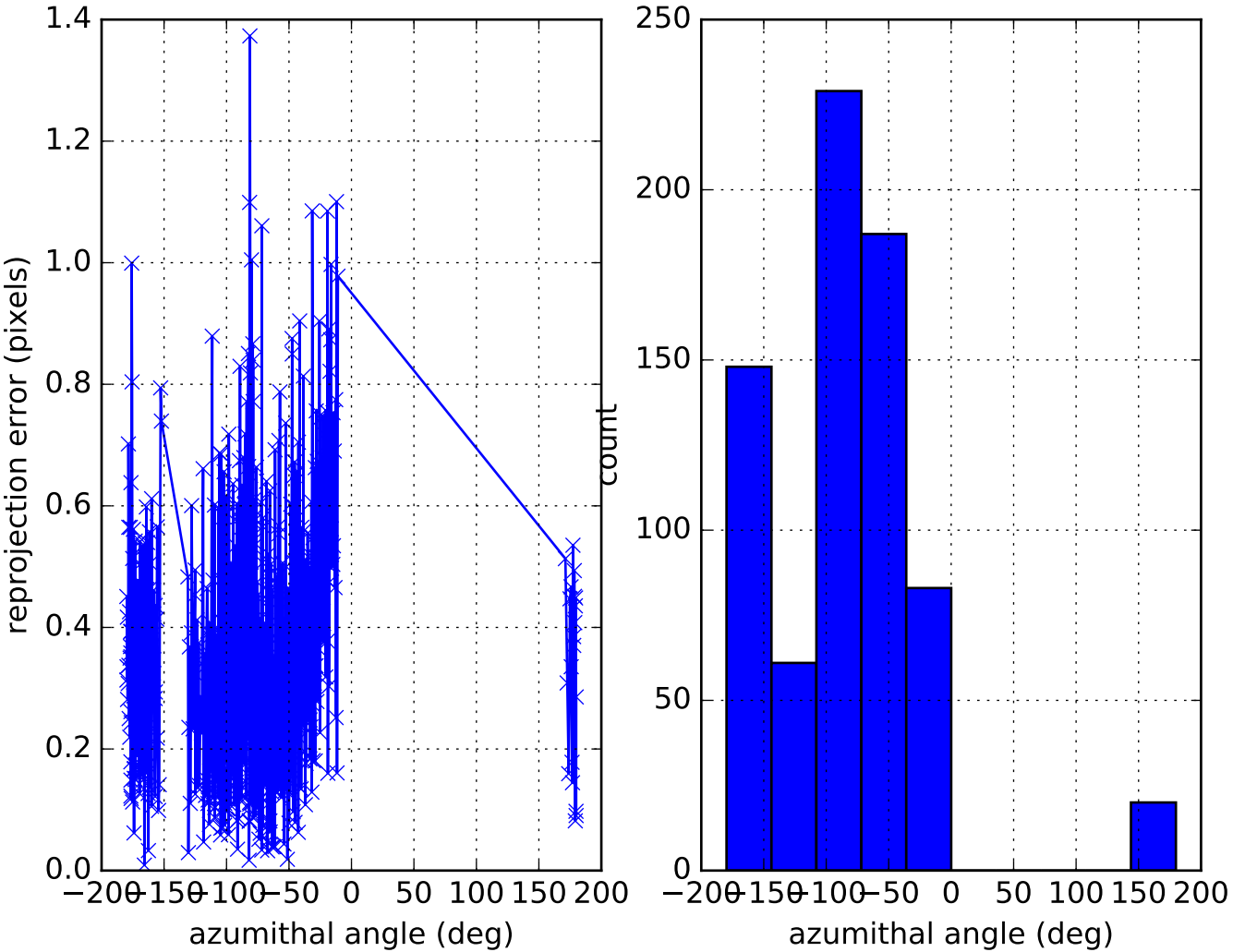

cam9: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
10
5
0
−5
−2
0
2
4
6
error x (pix)
120
105
90
75
60
45
30
15
0
image index

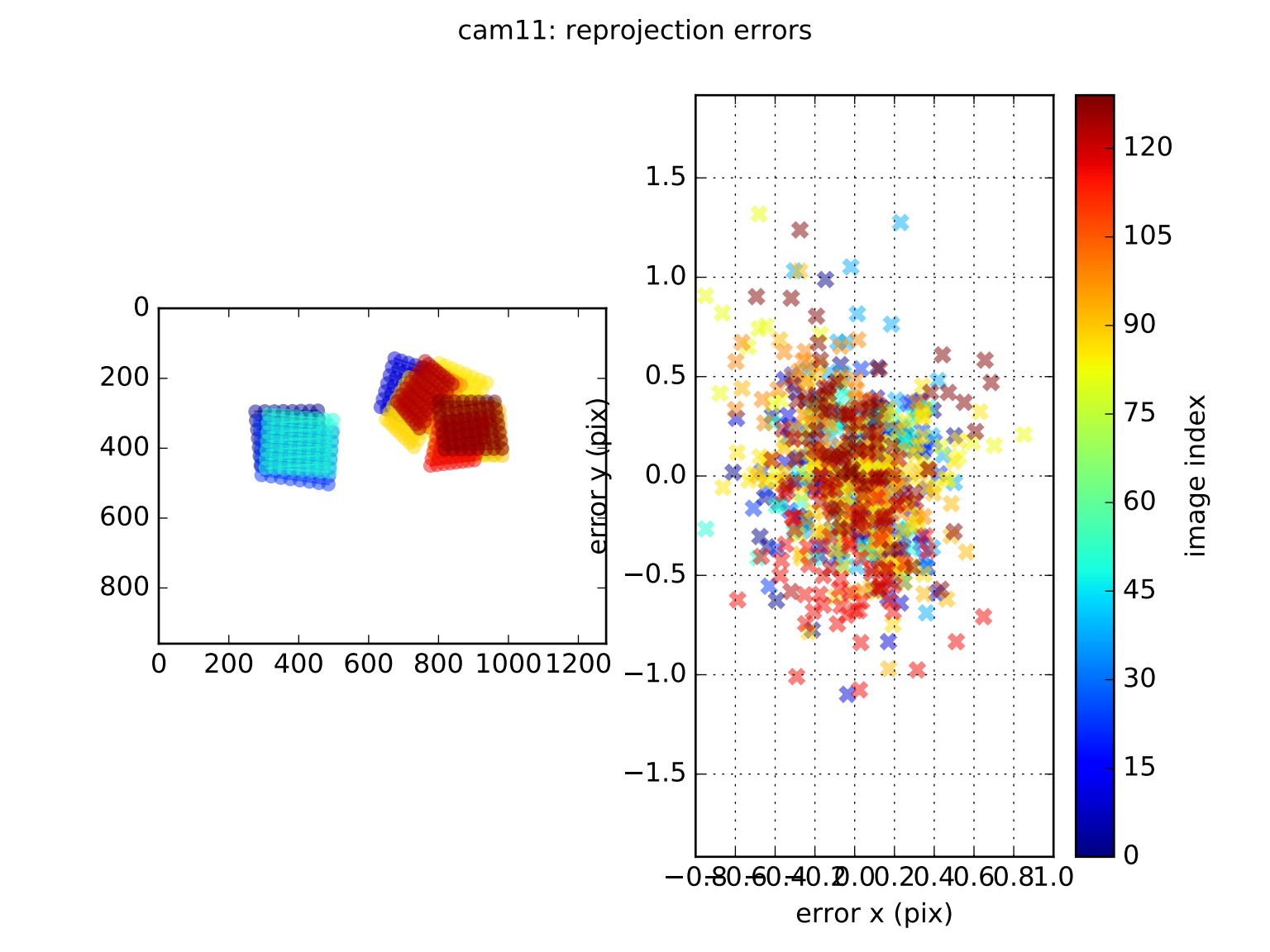

cam10: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20
25
30
0
50
100
150
200

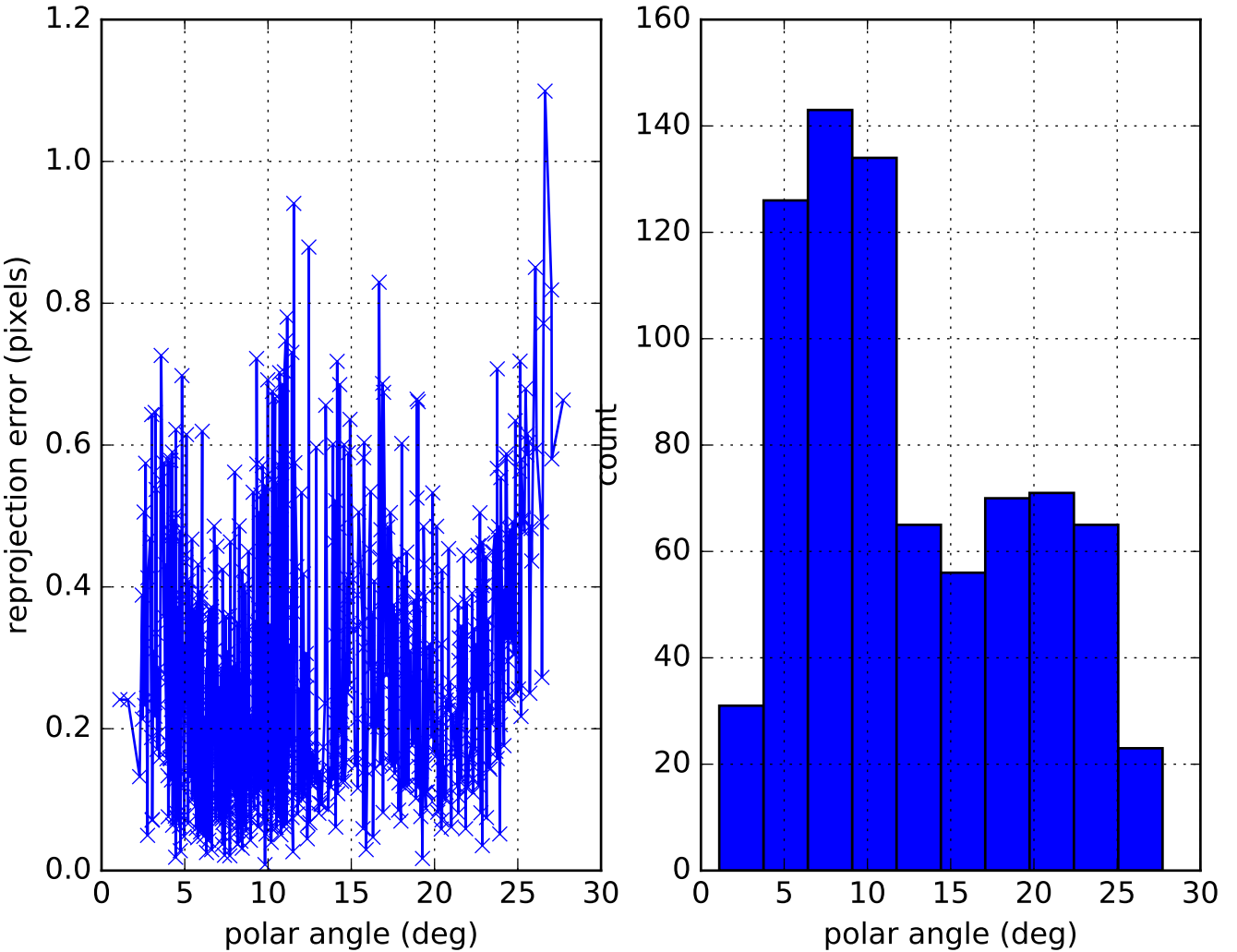

cam10: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)

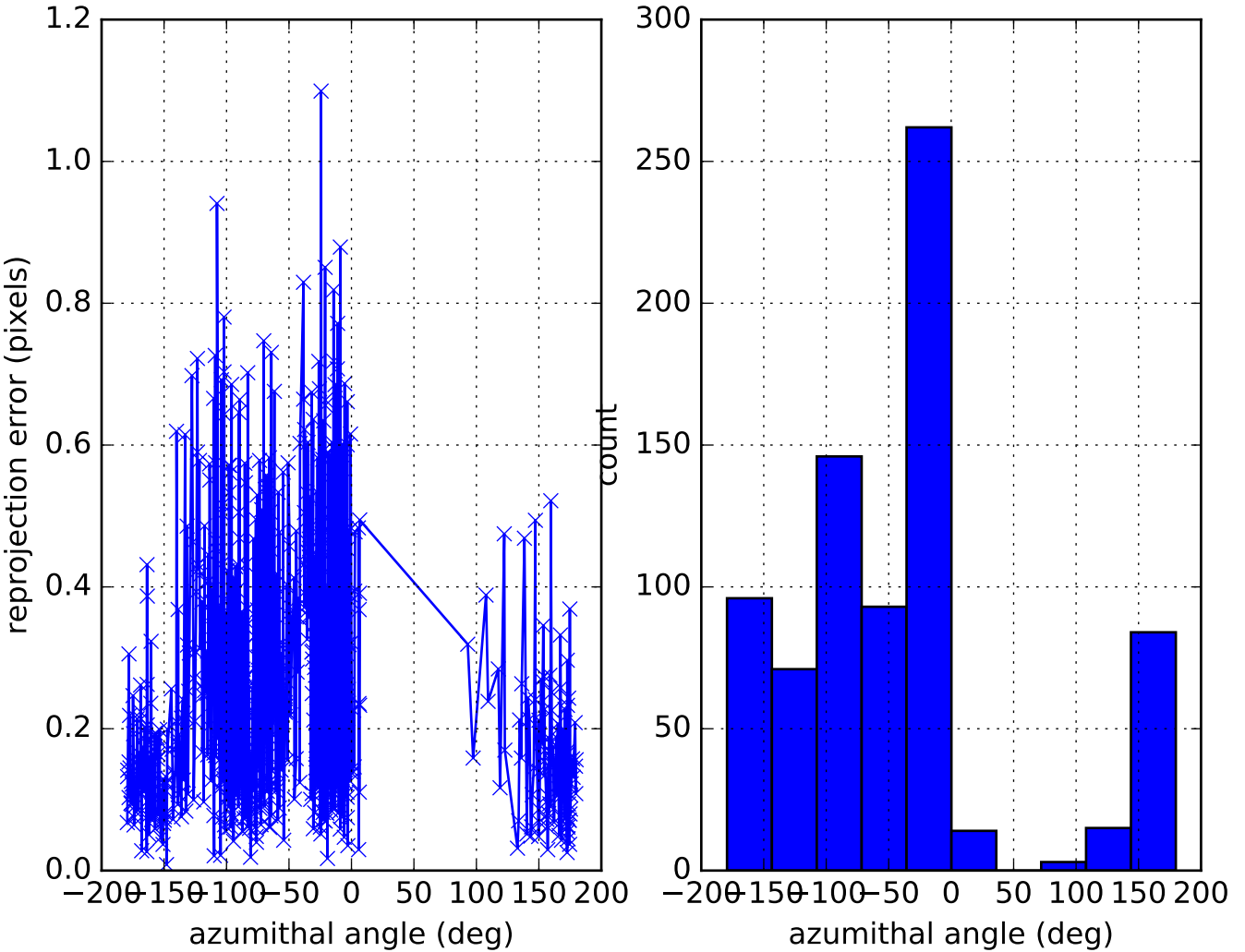

cam10: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
2
1
0
−1
−2
−1.0
−0.5
0.0
0.5
1.0
error x (pix)
120
105
90
75
60
45
30
15
0
image index

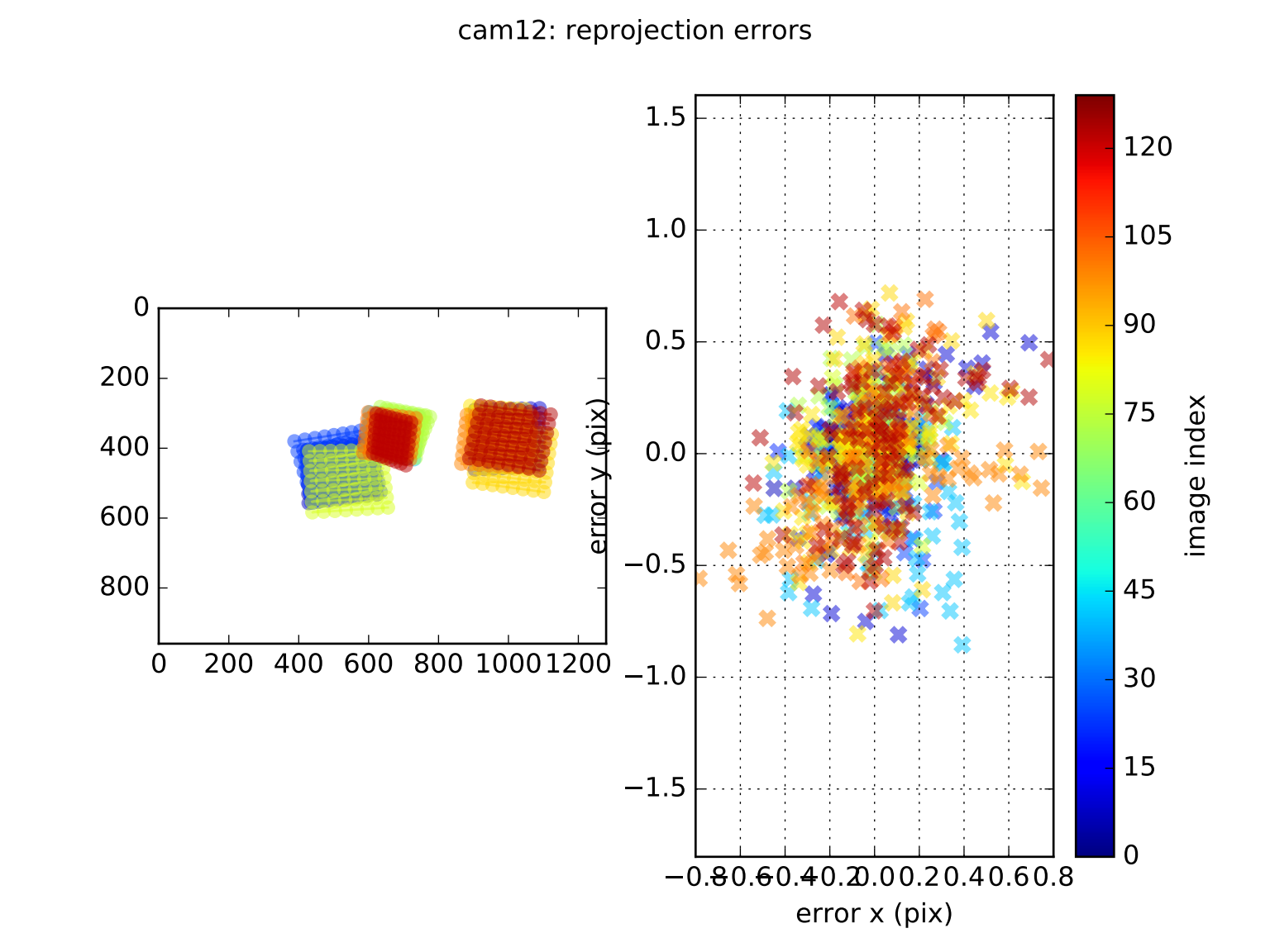

cam11: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
0
50
100
150
200
0
5
10
15
20
25
30
35

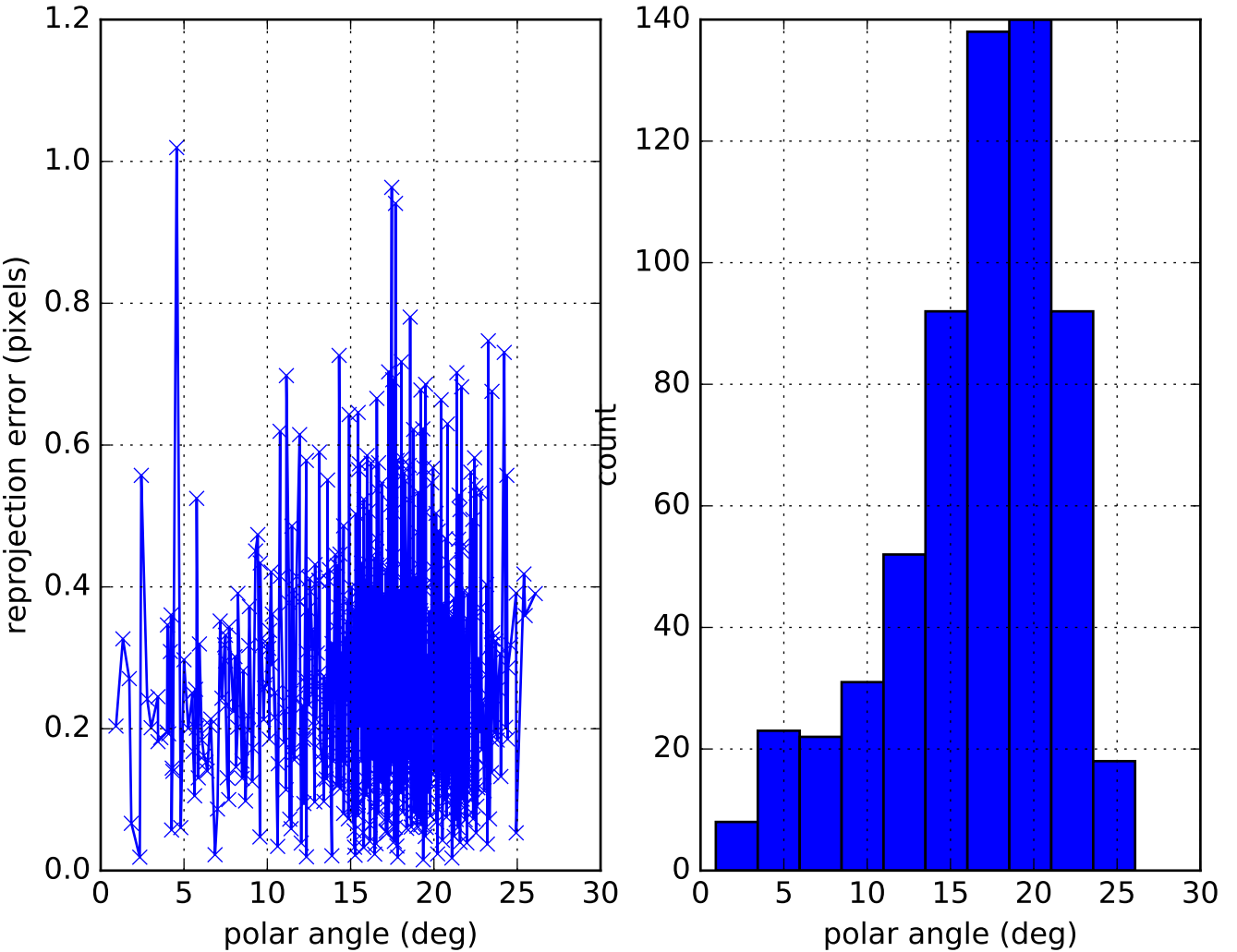

cam11: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)

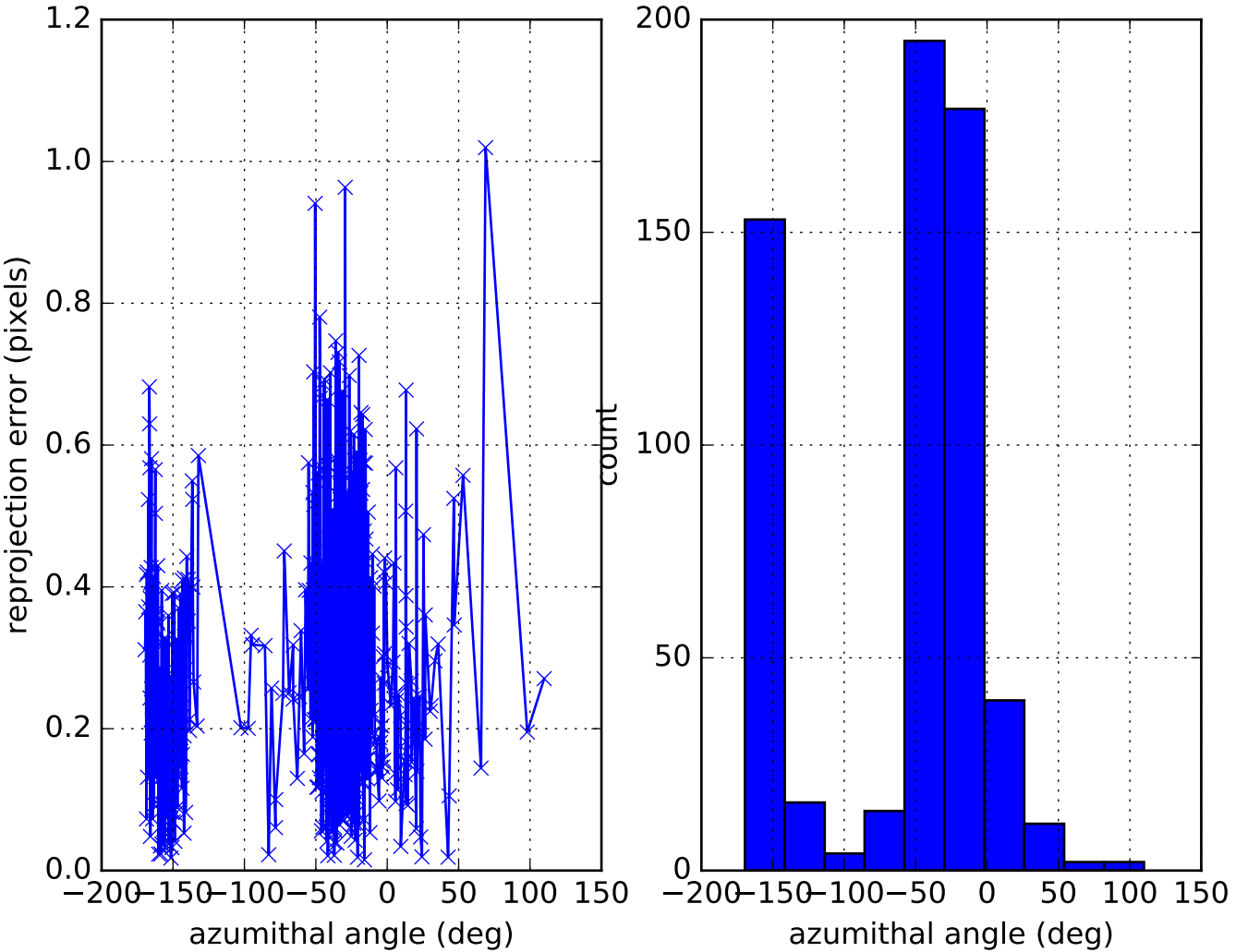

cam11: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
error x (pix)
120
105
90
75
60
45
30
15
0
image index

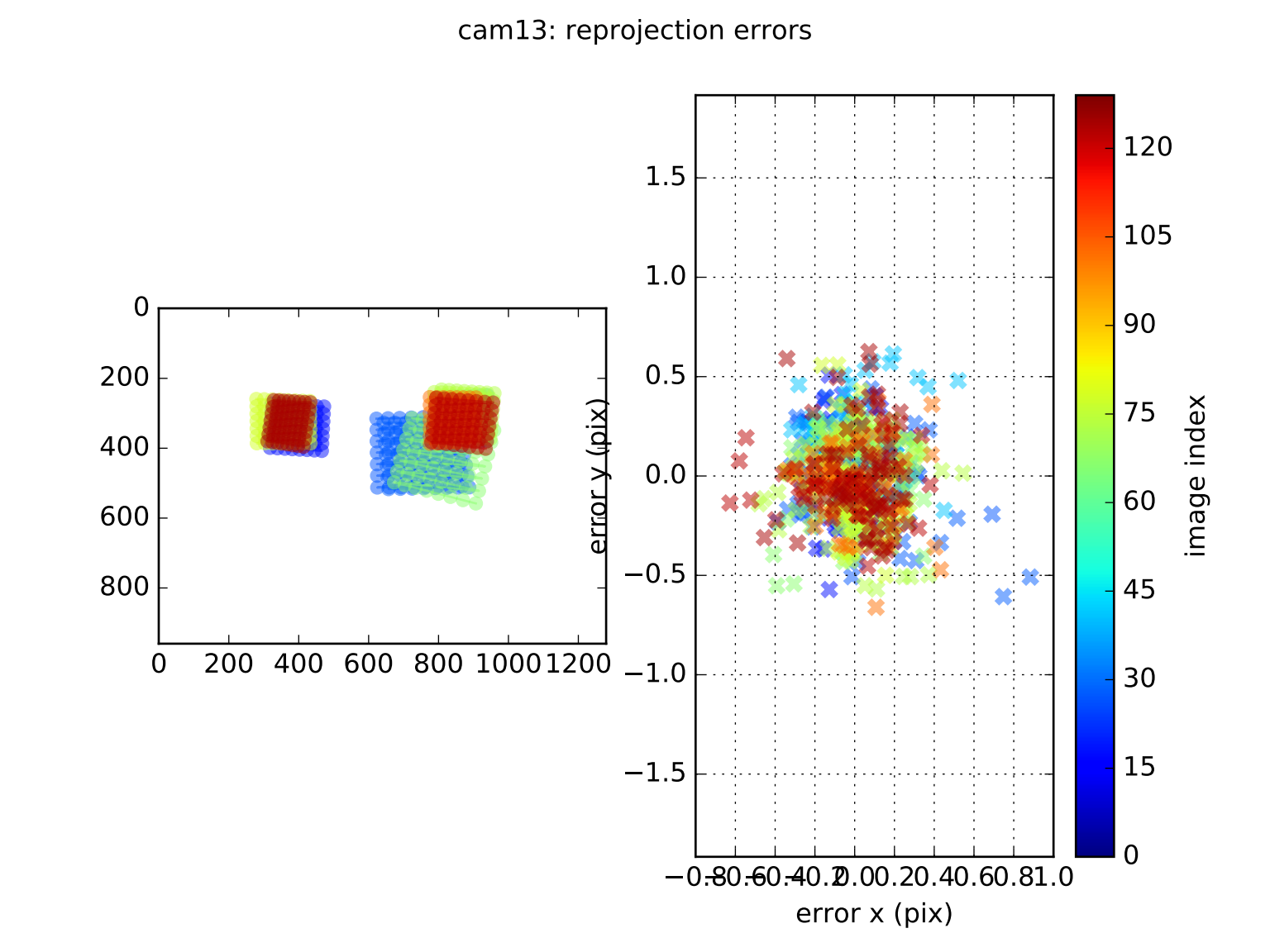

cam12: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
100
120
140
160
0
5
10
15
20
25
30

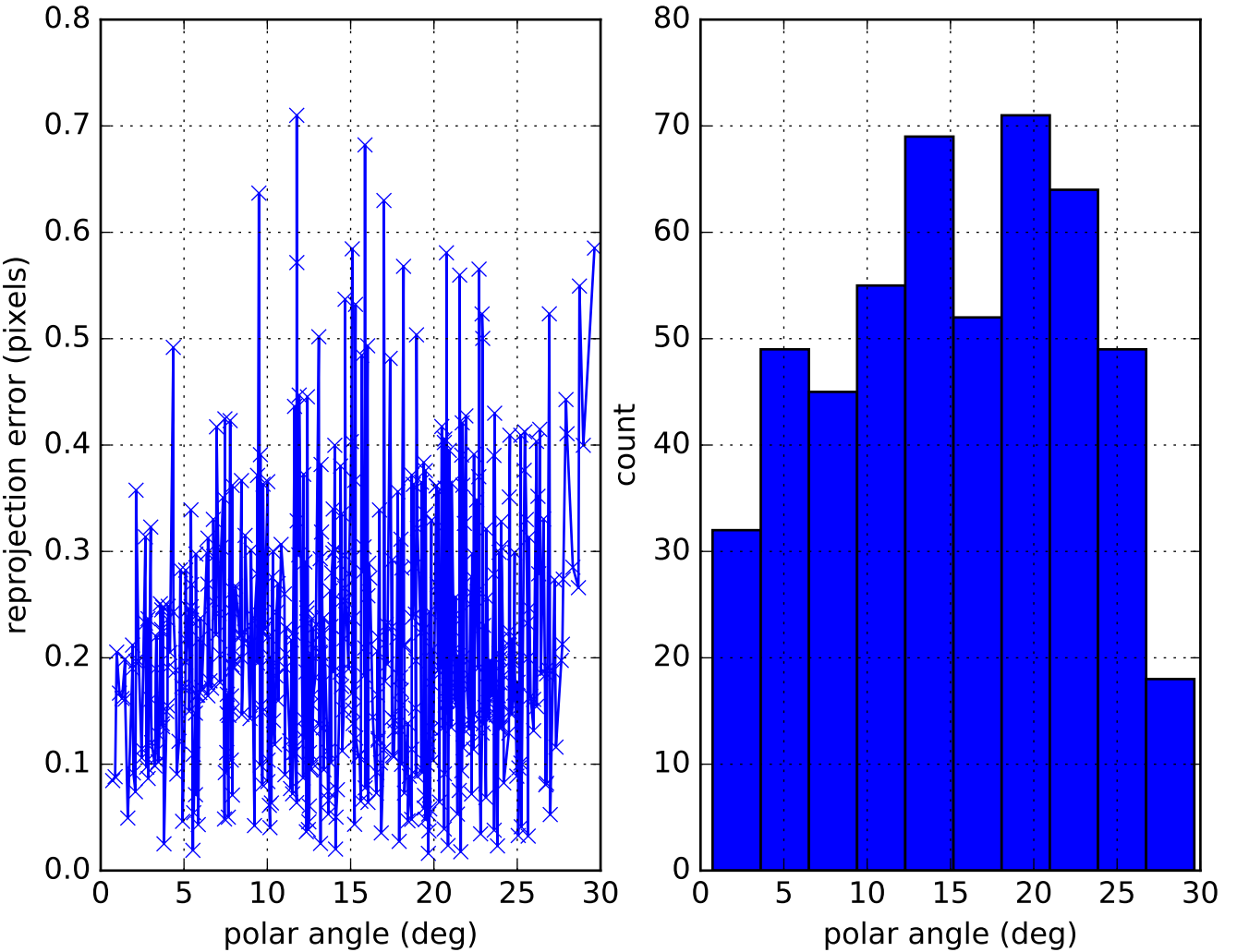

cam12: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

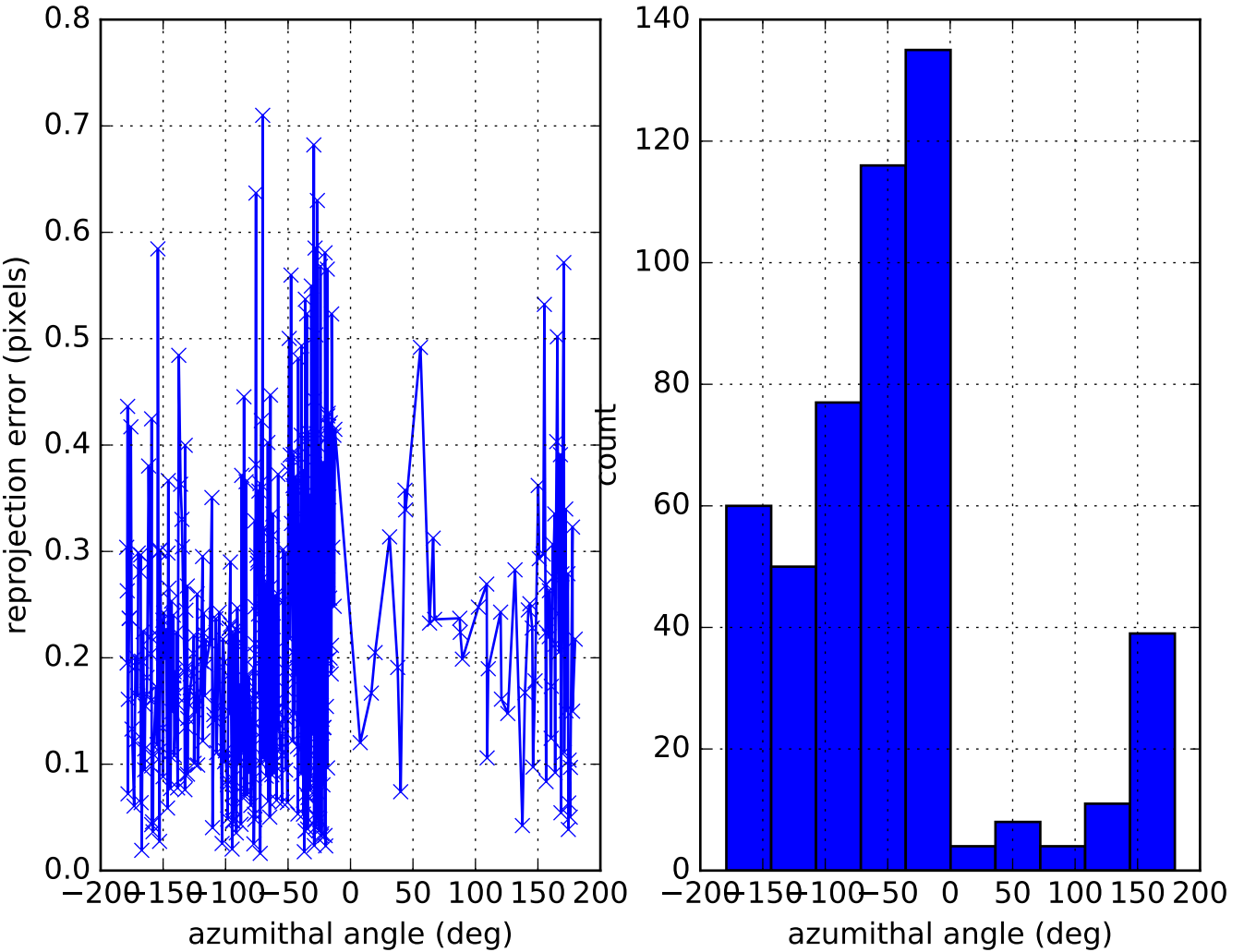

cam12: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
error x (pix)
120
105
90
75
60
45
30
15
0
image index

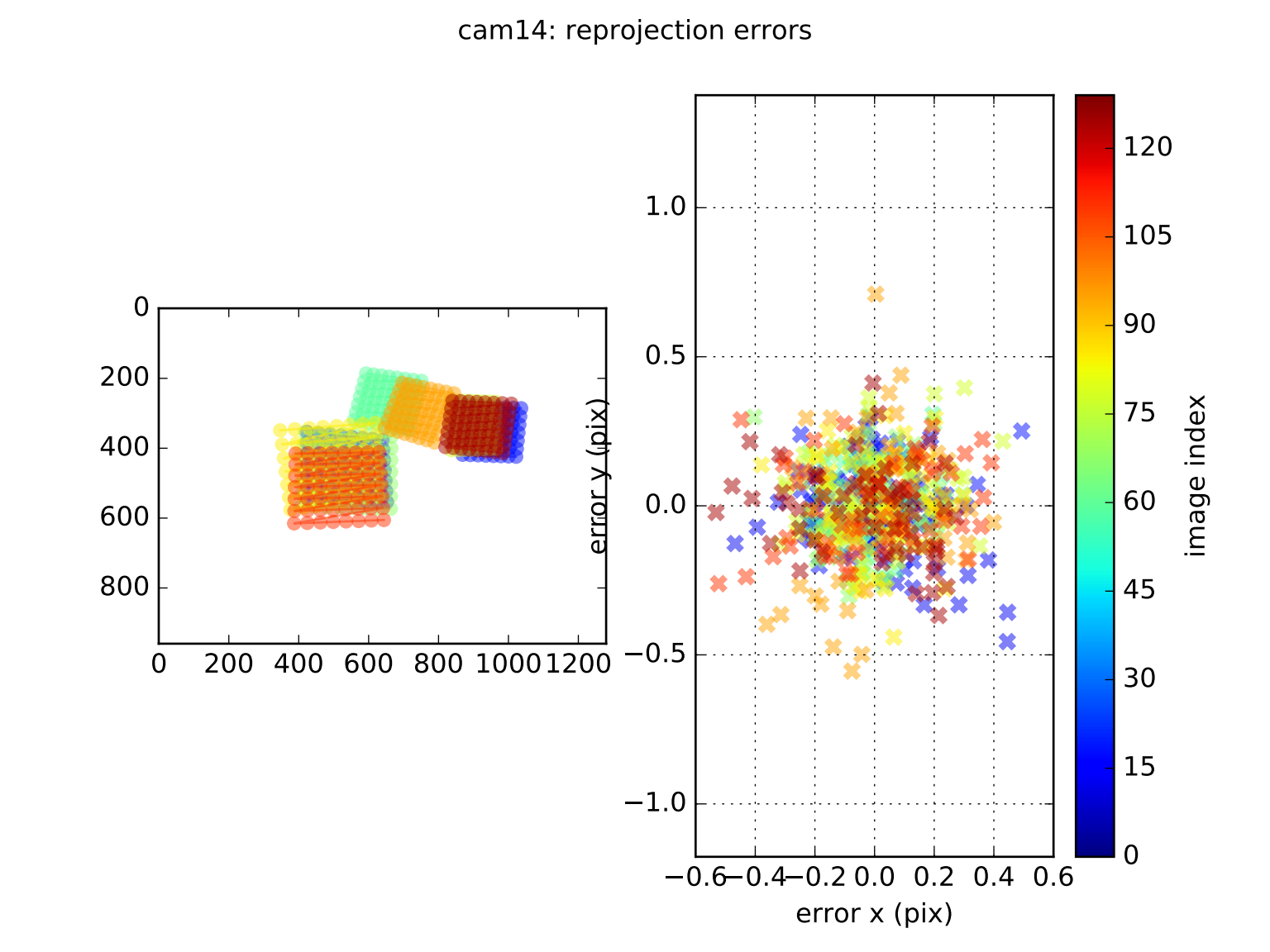

cam13: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
20
40
60
80
100
120
140
0
5
10
15
20
25
30

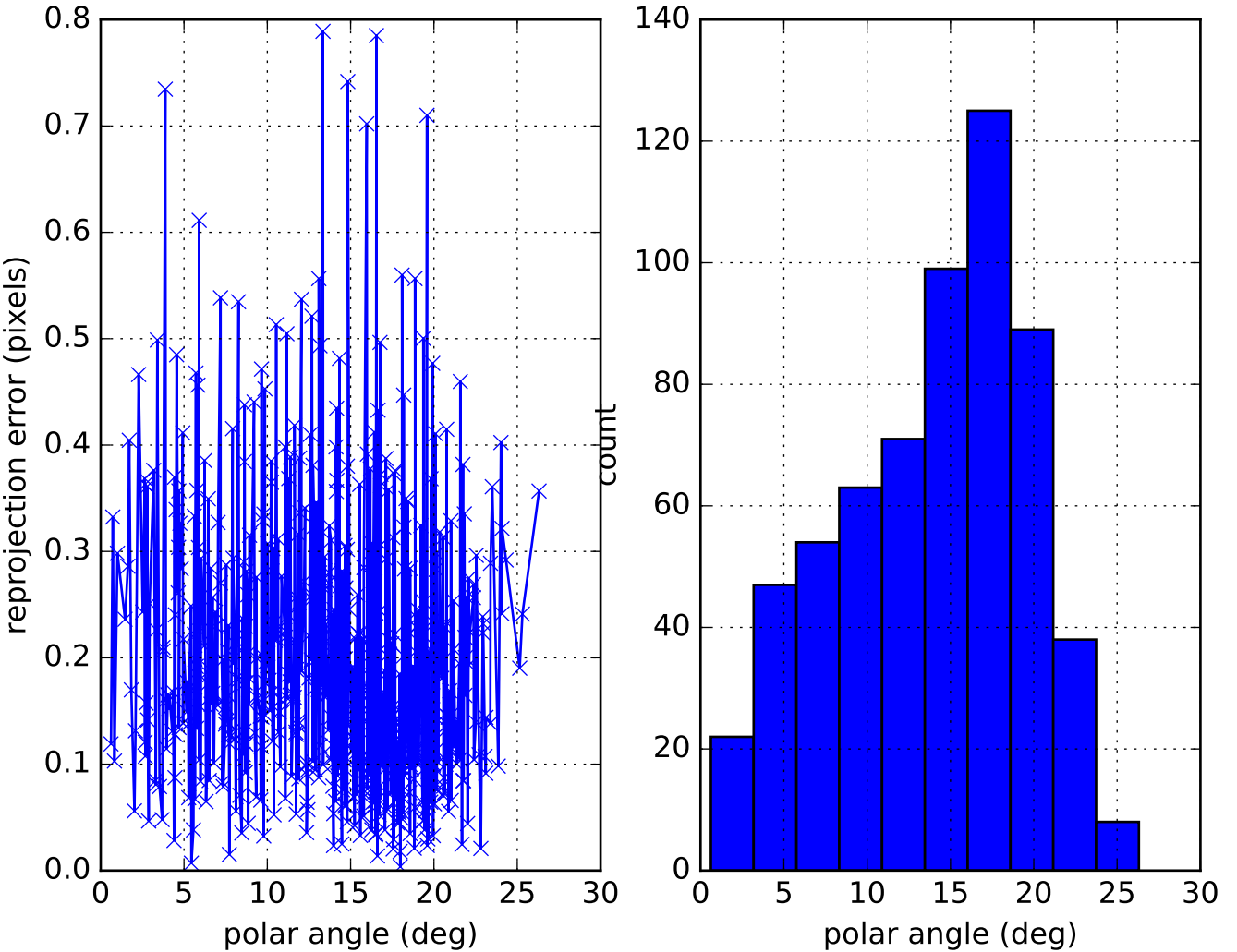

cam13: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
200
150
100
50
0
−200
−150
−100
−50
0
50
100
150

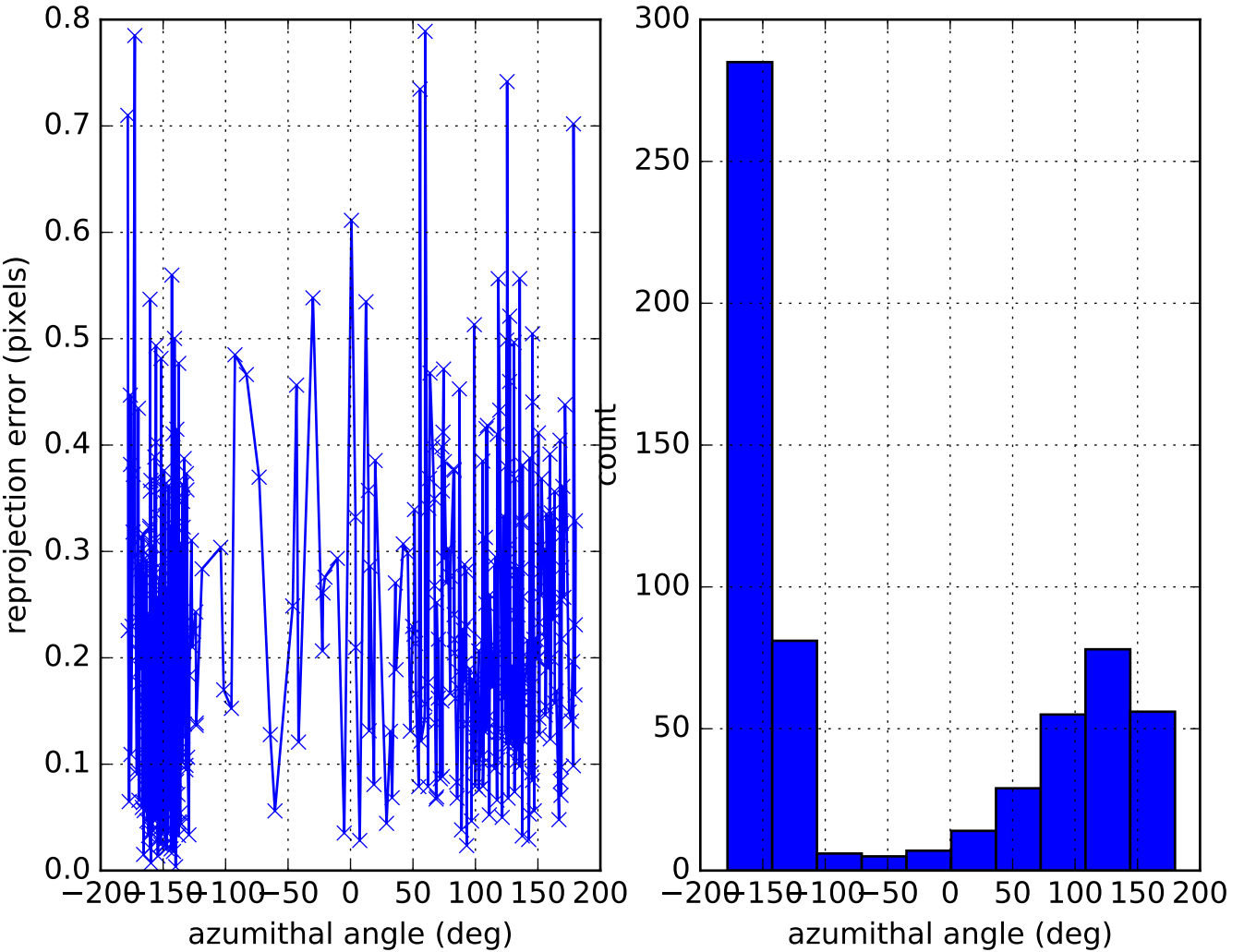

cam13: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
error x (pix)
120
105
90
75
60
45
30
15
0
image index

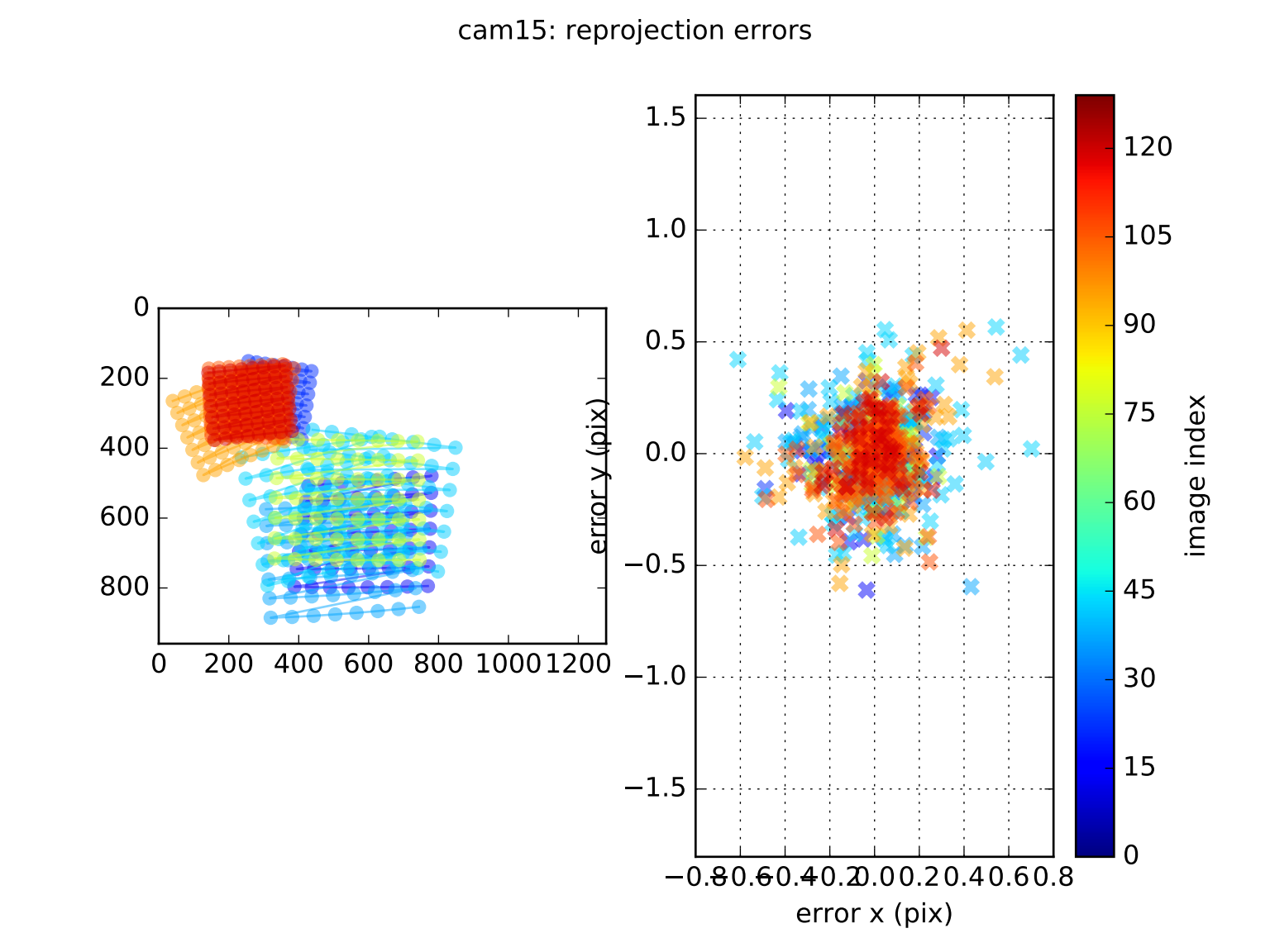

cam14: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30

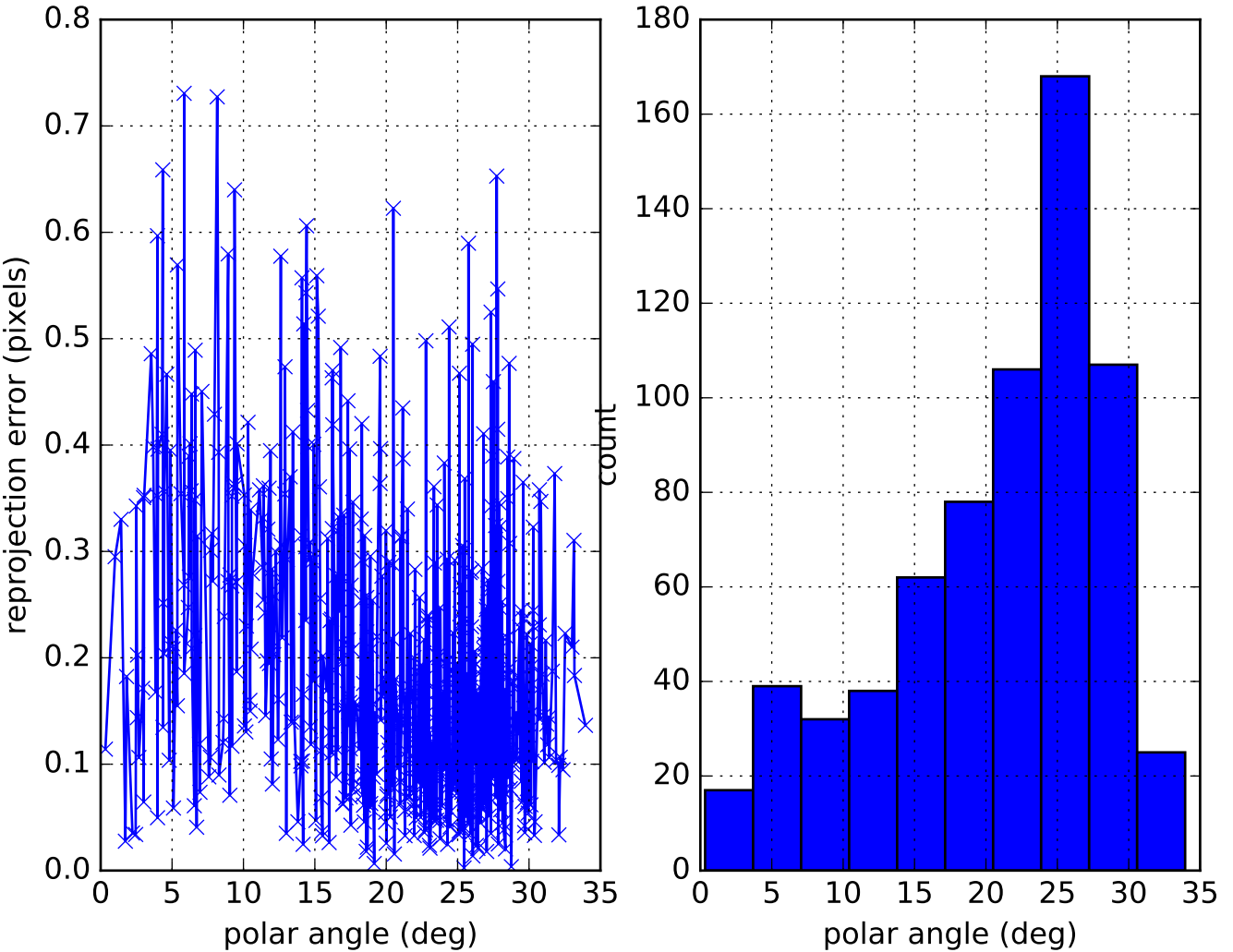

cam14: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

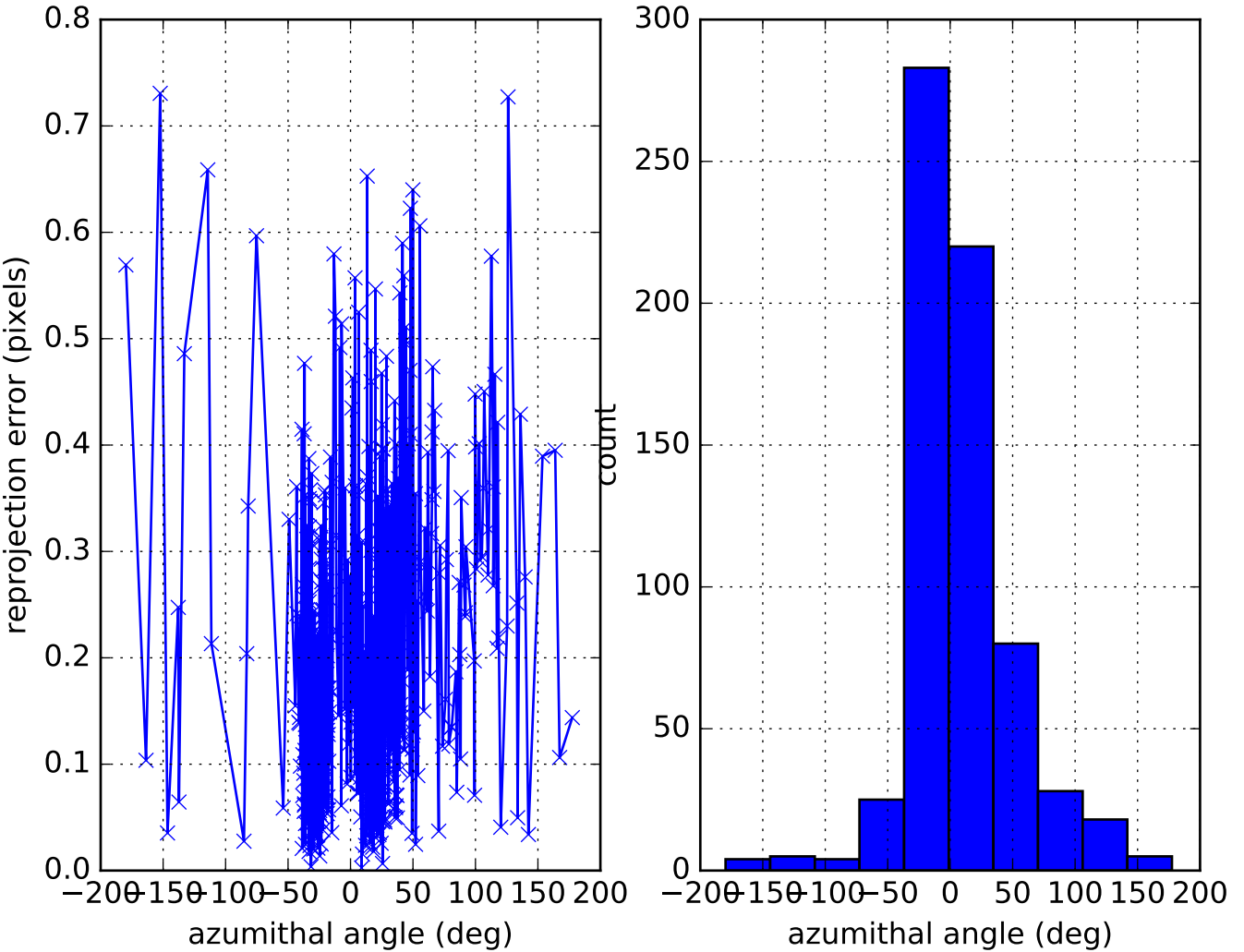

cam14: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.0
0.5
0.0
−0.5
−1.0
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
error x (pix)
120
105
90
75
60
45
30
15
0
image index

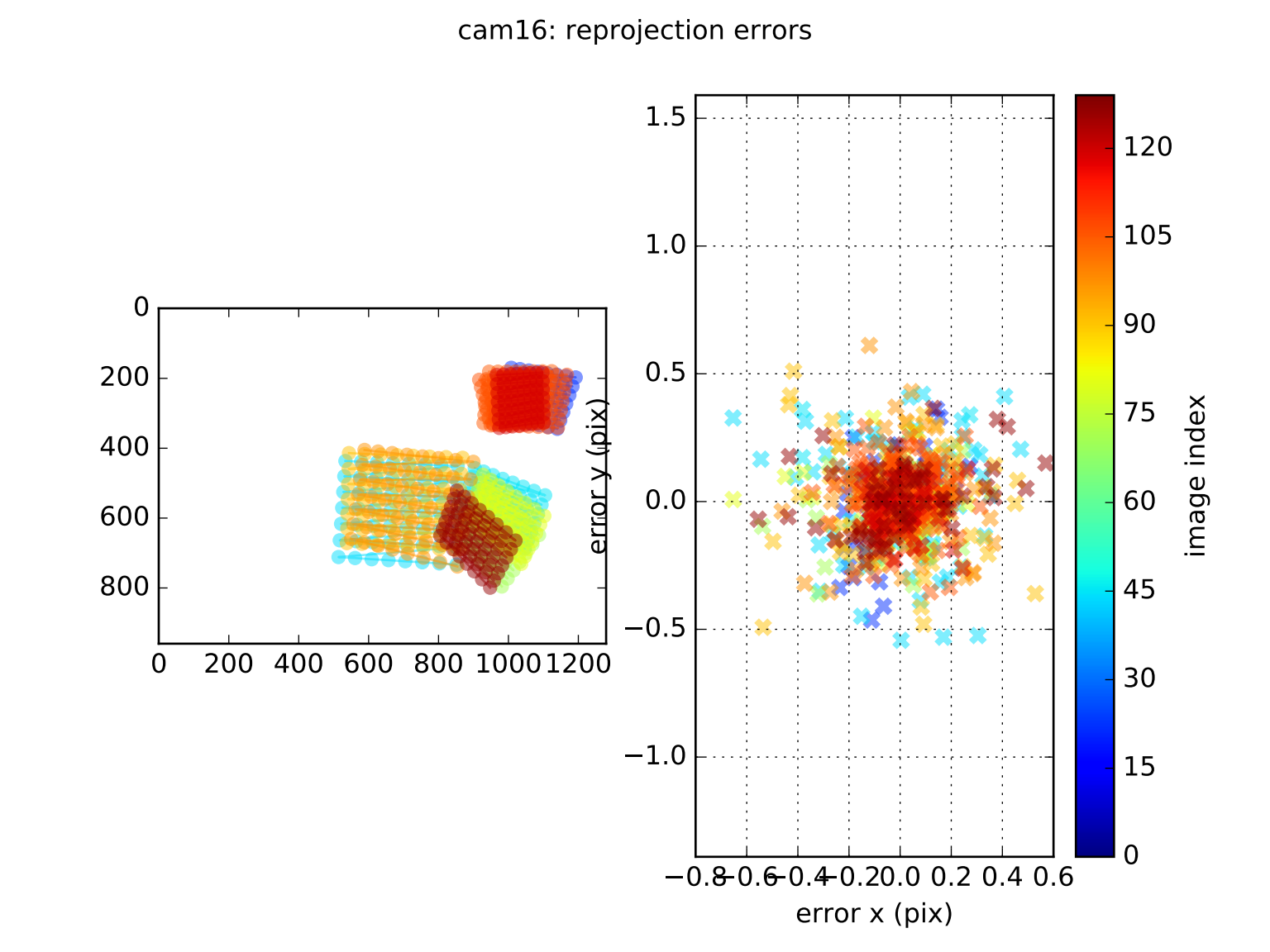

cam15: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
5
10
15
20
25
30
0
20
40
60
80
100
120
140

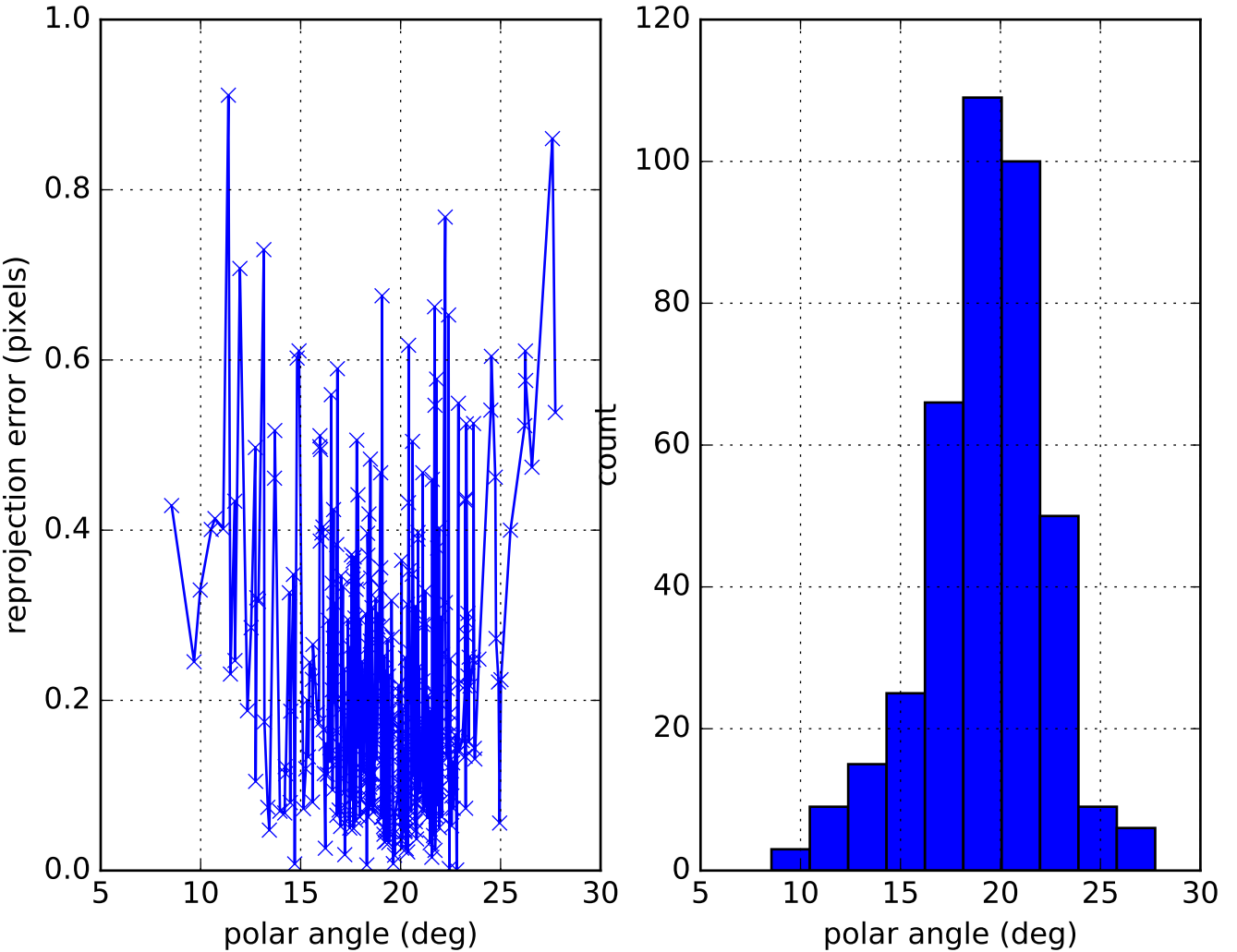

cam15: azimutal error
reprojection error (pixels)
azumithal angle (deg)
count
azumithal angle (deg)

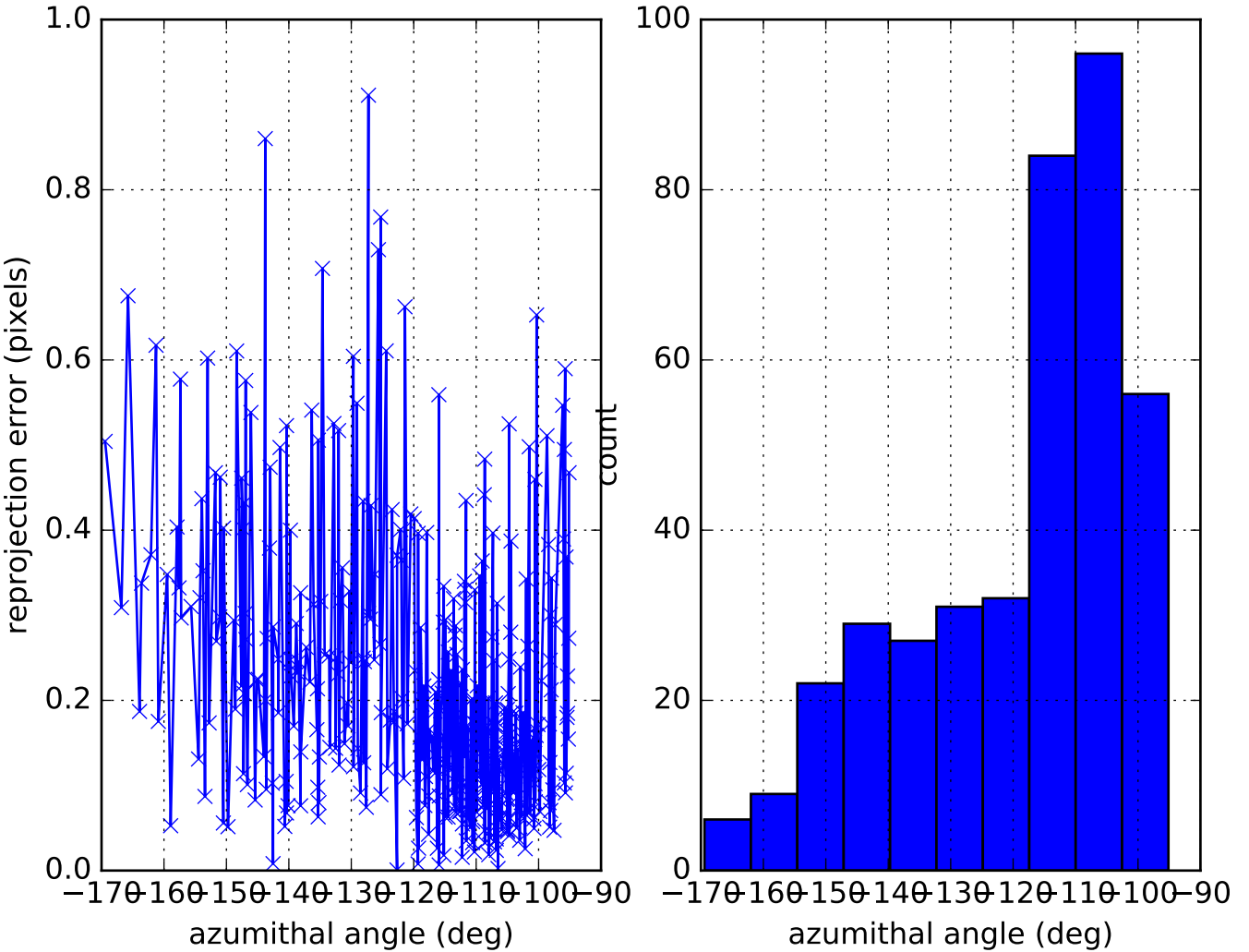

cam15: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
error x (pix)
120
105
90
75
60
45
30
15
0
image index

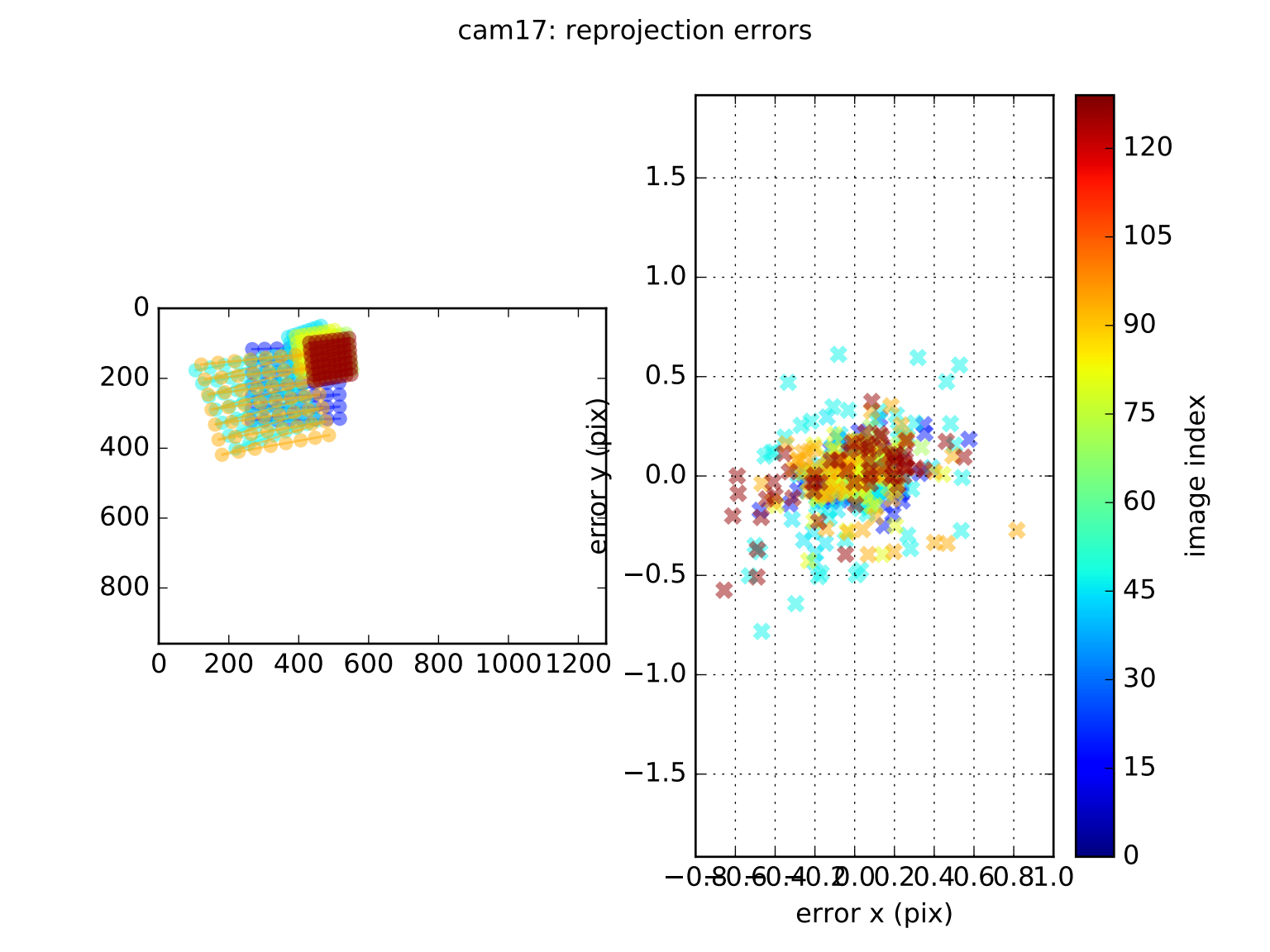

cam16: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
5
10
15
20
25
30
35
0
20
40
60
80
100
120
140
160
180


cam16: azimutal error
reprojection error (pixels)
azimuthal angle (deg)
count
azimuthal angle (deg)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
50
100
150
200
250
300
−200
−150
−100
−50
0
50
100
150
200


cam16: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
error x (pix)
120
105
90
75
60
45
30
15
0
image index


cam17: polar error
reprojection error (pixels)
polar angle (deg)
count
polar angle (deg)
0.0
0.2
0.4
0.6
0.8
1.0
0
20
40
60
80
100
120
5
10
15
20
25
30


cam17: azimutal error
reprojection error (pixels)
1.0
0.8
0.6
0.4
0.2
0.0
−170 −160 −150 −140 −130 −120 −110 −100 −90
azumithal angle (deg)
count
100
80
60
40
20
0
−170 −160 −150 −140 −130 −120 −110 −100 −90
azumithal angle (deg)


cam17: reprojection errors
0
200
400
600
800
0
200
400
600
800
1000
1200
error y (pix)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−0.8
−0.6
−0.4
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
error x (pix)
120
105
90
75
60
45
30
15
0
image index