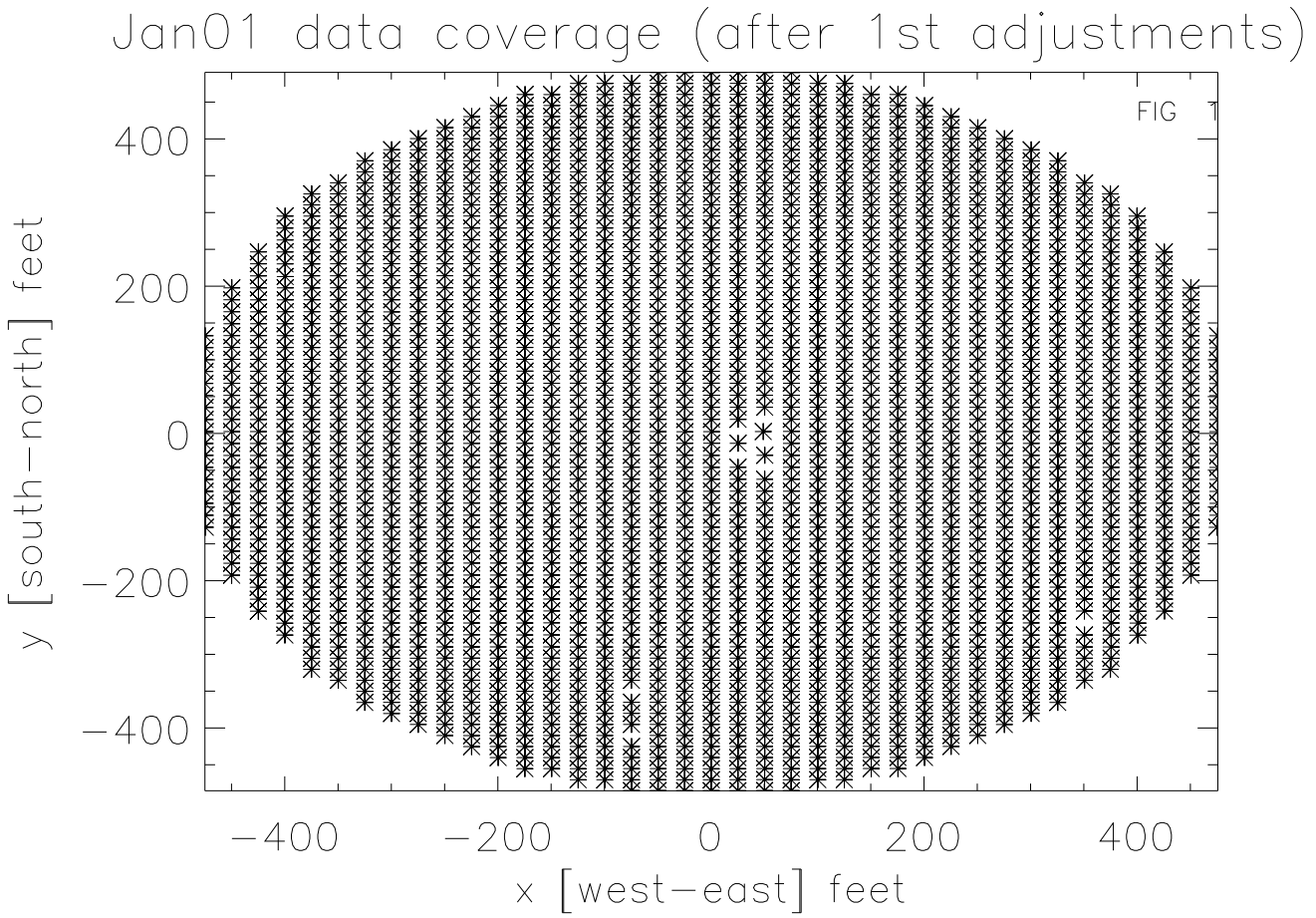
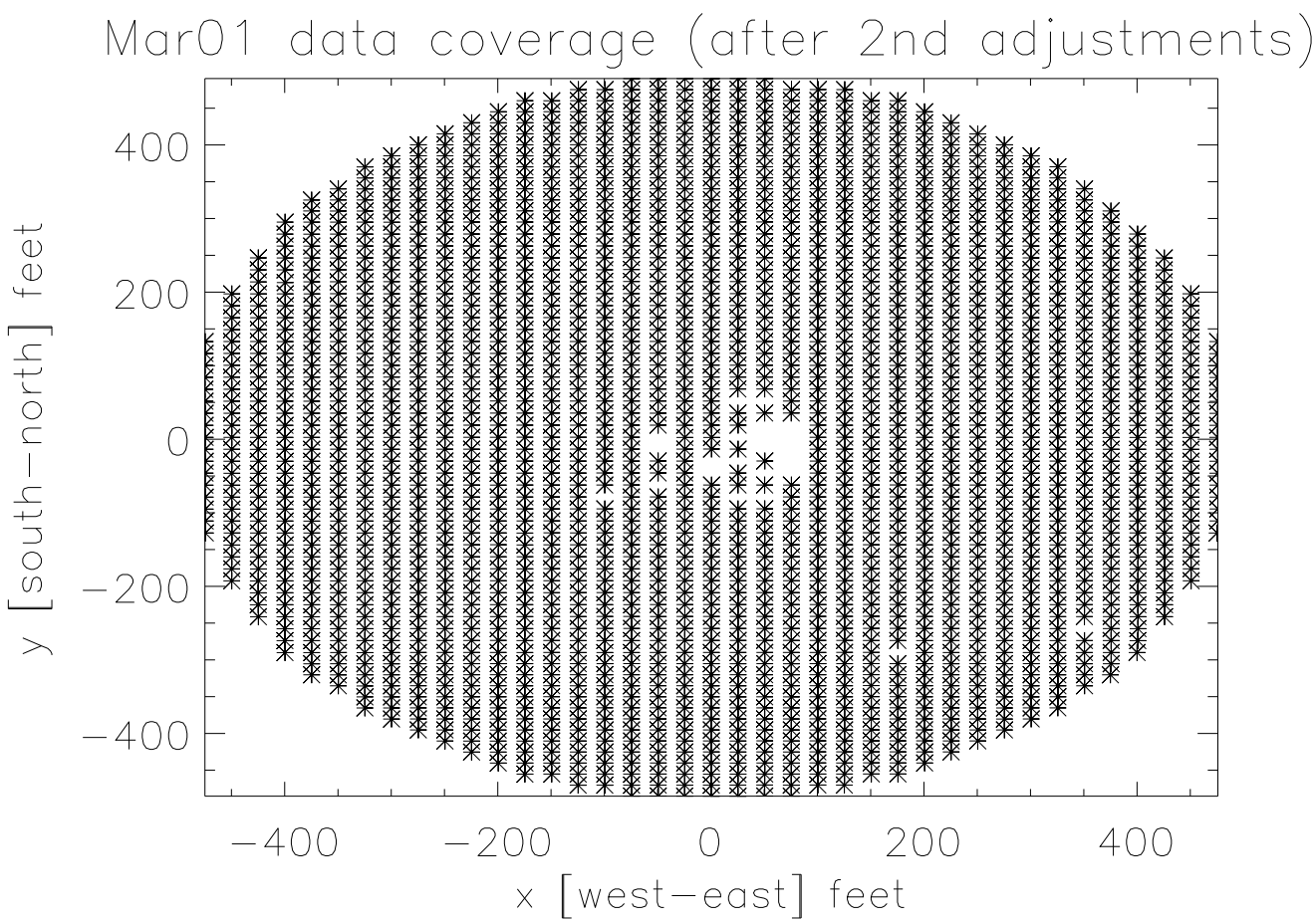
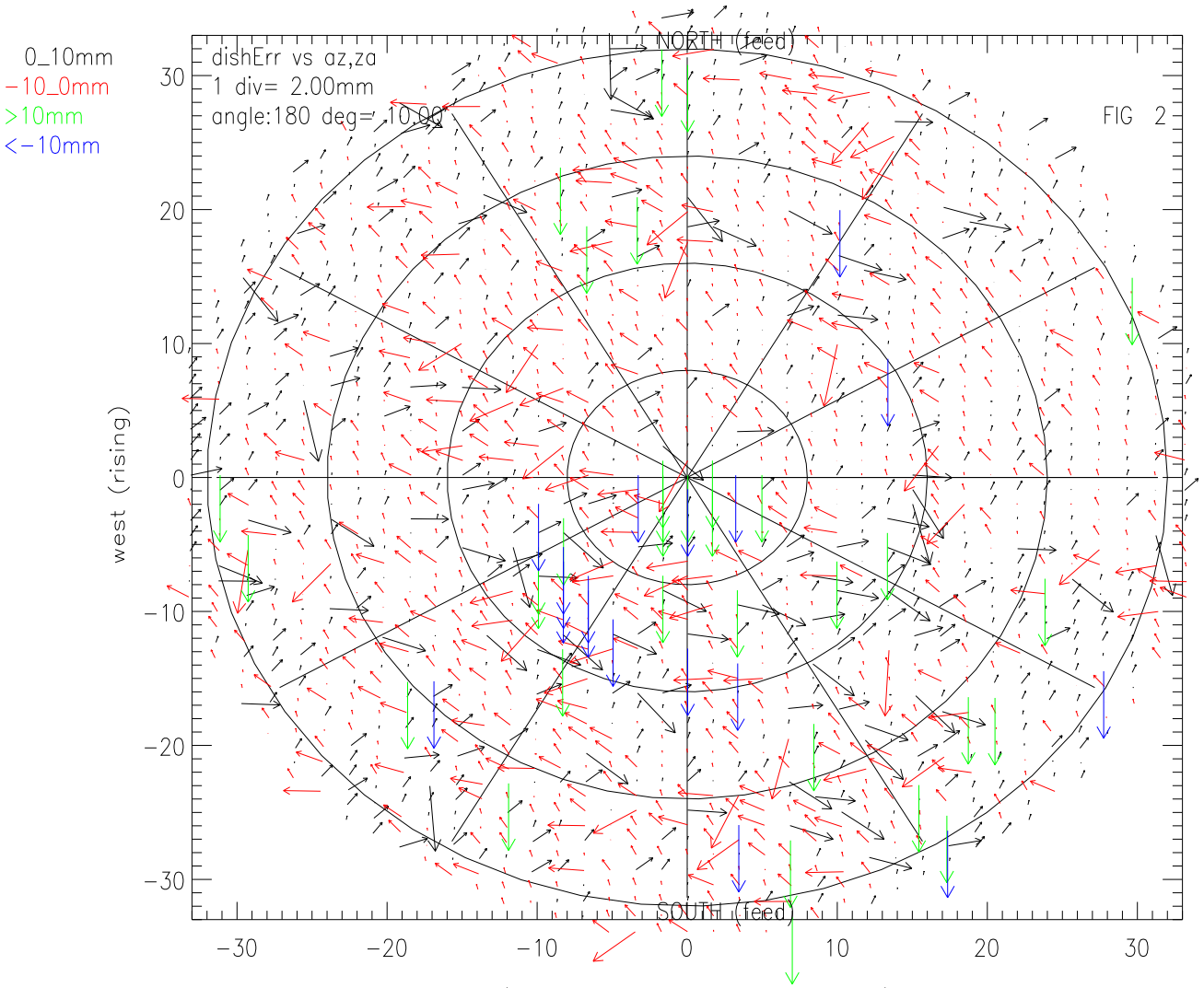

Jan01 data coverage (after 1st adjustments)
FIG 1
400
200
0
−200
−400
y [south−north] feet
−400
−200
0
200
400
x [west−east] feet


Mar01 data coverage (after 2nd adjustments)
400
200
0
−200
−400
y [south−north] feet
−400
−200
0
200
400
x [west−east] feet



statistics of error by az,za (ignore 10 pnts with error >30.0mm)

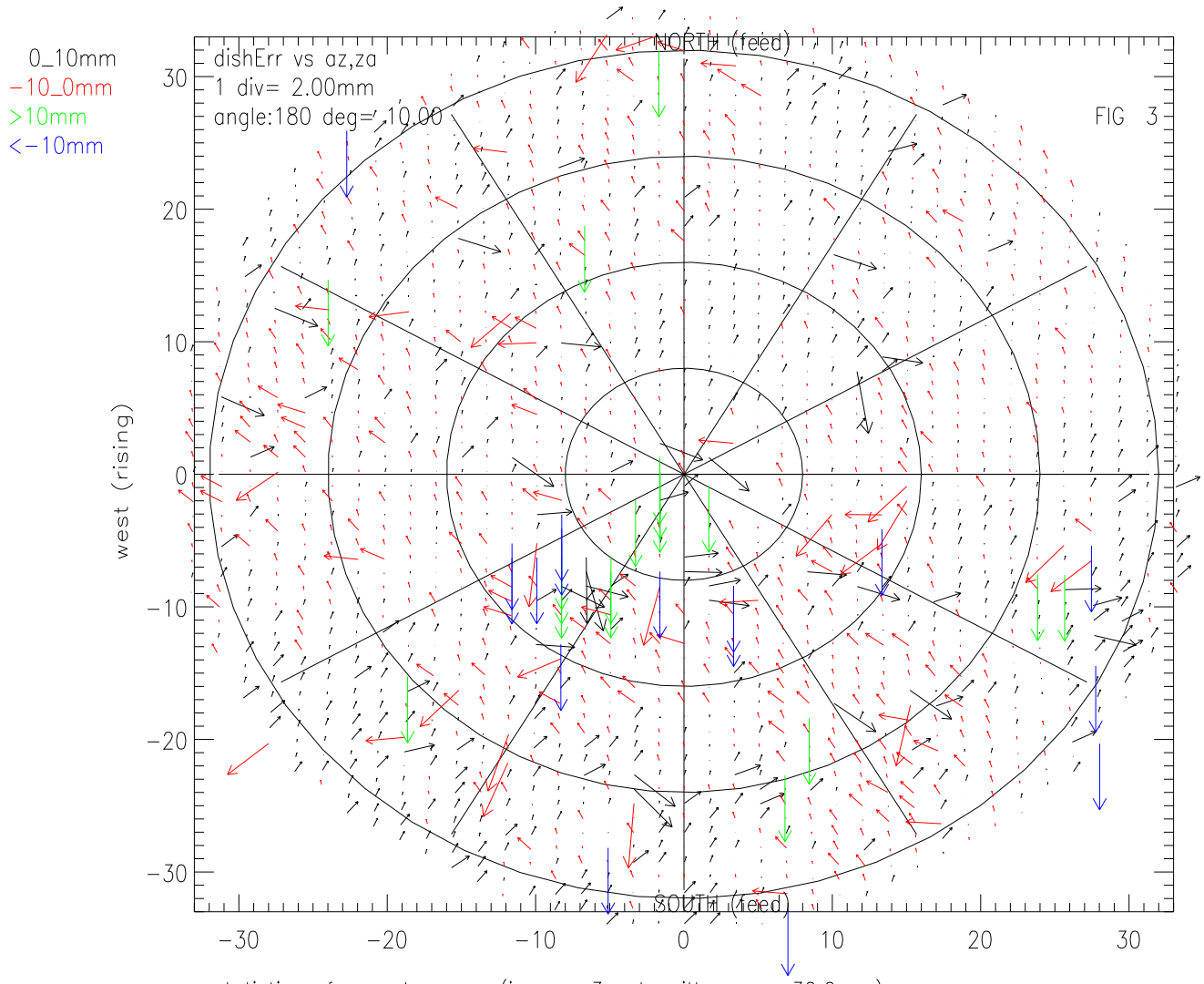
dishErr(mm) each 8.0 deg za

za	max	avg	rms
all	28.55	−0.17	3.37
8	7.40	−0.66	2.03
16	28.55	−0.66	4.70
24	22.66	−0.27	3.21
32	24.98	0.13	2.94

dishErr(mm) each 90.0 deg az

az	max	avg	rms
all	28.55	−0.17	3.37
90	24.98	−0.22	3.19
180	28.55	0.10	3.75
270	15.73	−0.40	3.79
360	12.87	−0.14	2.57

Reflector errors Jan01 after adjustments. 1922 points
length proporitional to error. 1 tickMark = 3mm
angle proporitional to error. +/−180 is +/− 10mm error
for plot abs(err)>10mm clipped to 10mm and 180 degrees



statistics of error by az,za (ignore 3 pnts with error >30.0mm)

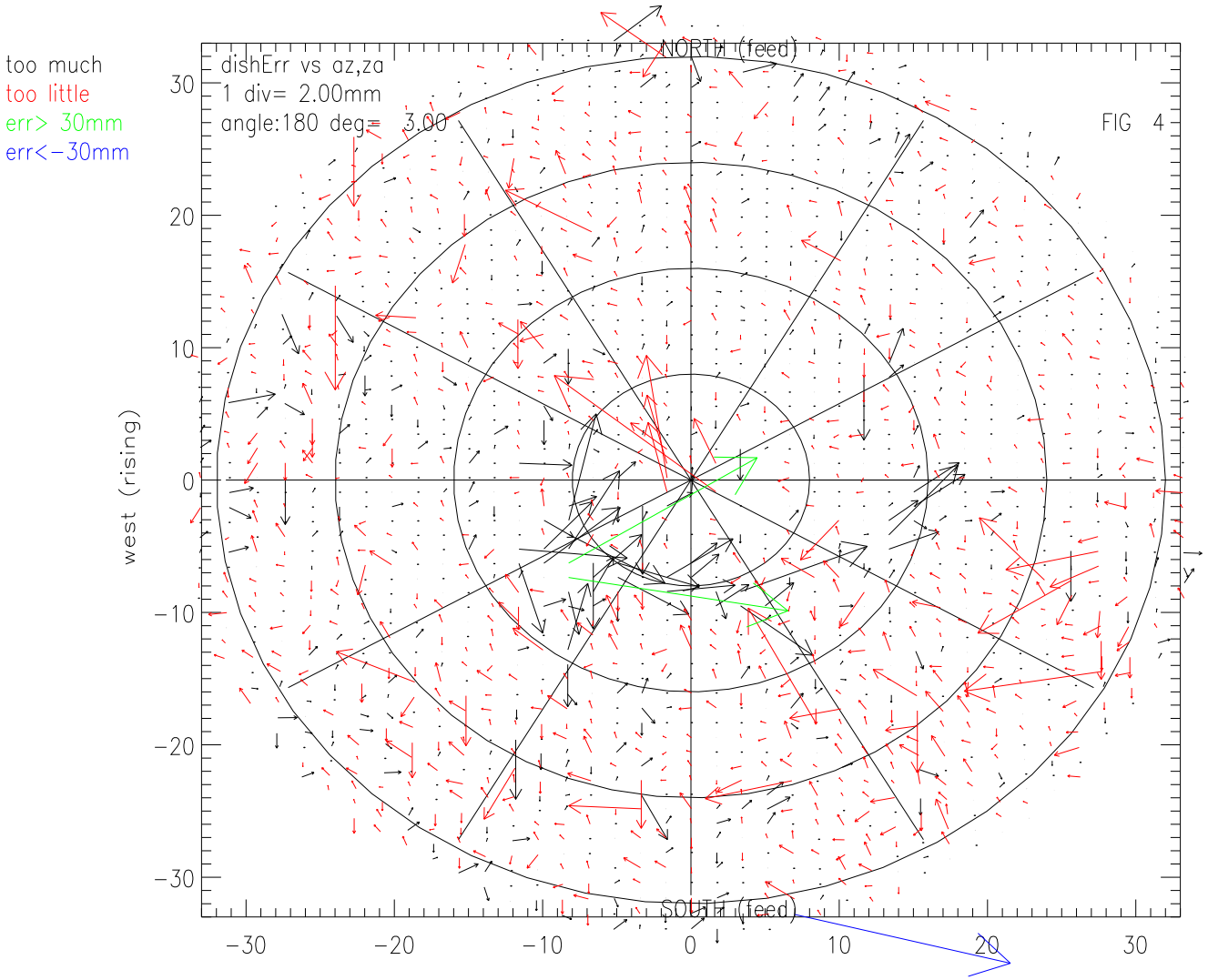
dishErr(mm) each 8.0 deg za

za	max	avg	rms
all	27.98	−0.01	2.48
8	27.98	1.09	4.16
16	13.63	−0.49	3.41
24	19.71	−0.13	1.77
32	15.75	0.11	2.16

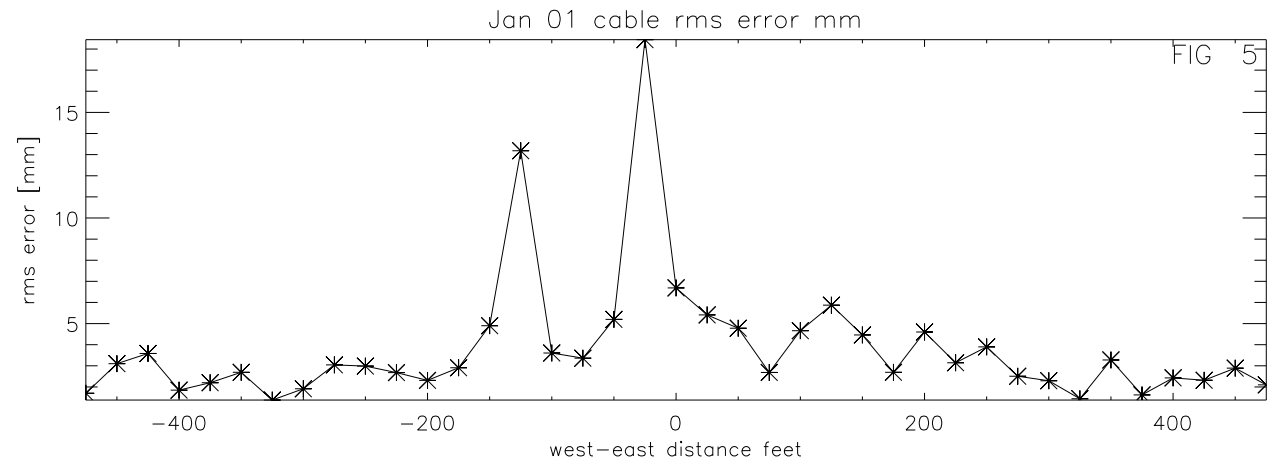
dishErr(mm) each 90.0 deg az

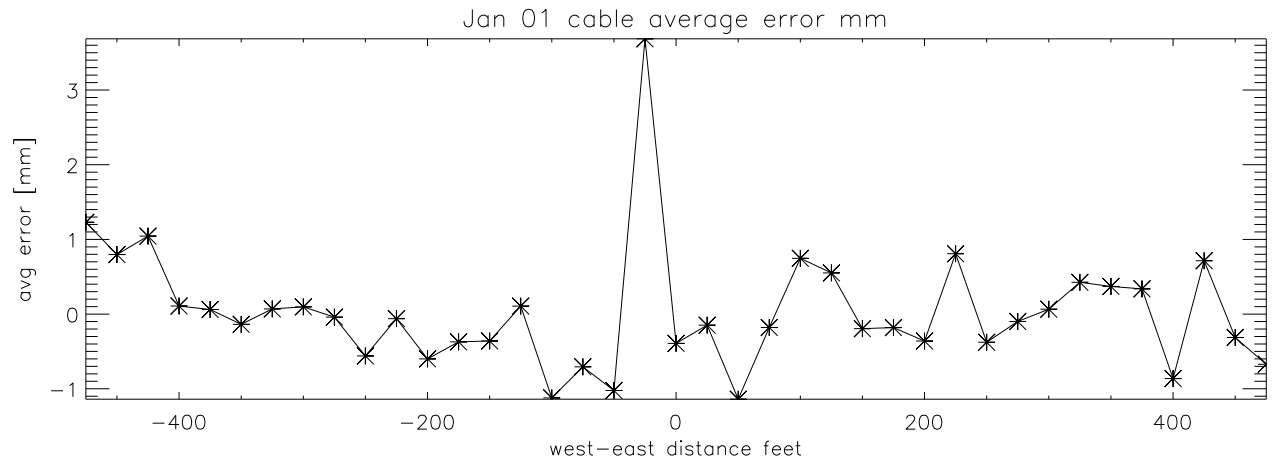
az	max	avg	rms
all	27.98	−0.01	2.48
90	9.48	0.03	1.27
180	27.98	−0.05	3.11
270	18.73	0.02	3.16
360	15.75	−0.06	1.95

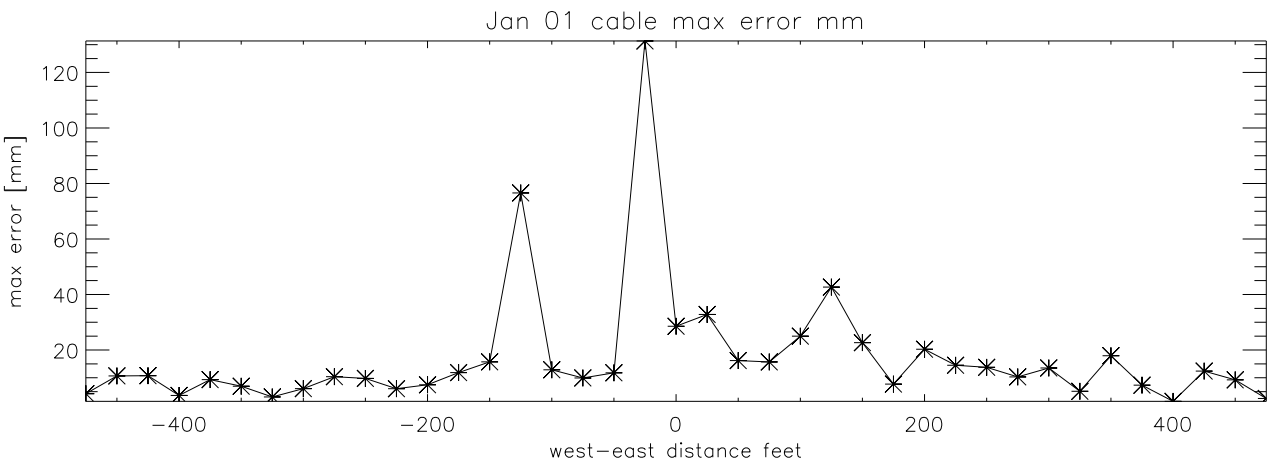
Reflector errors Mar01 after 2nd adjustments. 1907 points
length proporitional to error. 1 tickMark = 3mm
angle proporitional to error. +/−180 is +/− 10mm error
for plot abs(err)>10mm clipped to 10mm and 180 degrees

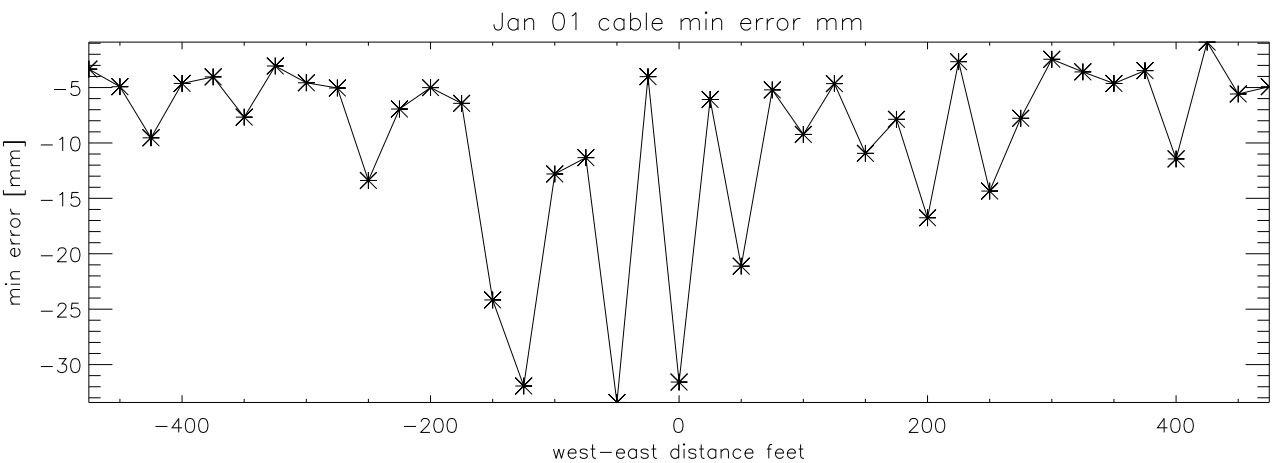


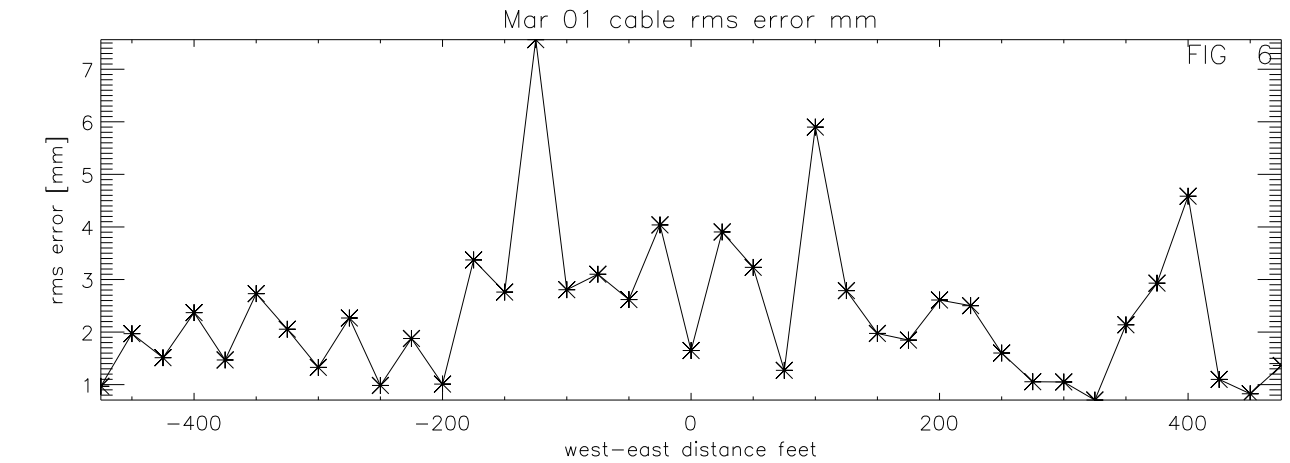
Reflector normal errors Mar01 AFTER 2nd adjustments. 1902 points
length is proporitional to the error. 1 tickMark = 2 mm
abs(err) >30mm clipped to 30mm
all errors < 0mm set to 0
rotation measures fractional change in error:
(errorBefore−errorAfter)/errorBefore −1
angled to the right −−> went too far
angled to the left −−> did not go far enough
0 deg.. perfect
60 deg.. went too far by 1 time
120 deg.. went too far by 2 times
180 deg.. went too far >= 3 times too far
−60 deg.. no motion
−120 deg.. went wrong way by 1 time
−180 deg.. went wrong way >= 2 times

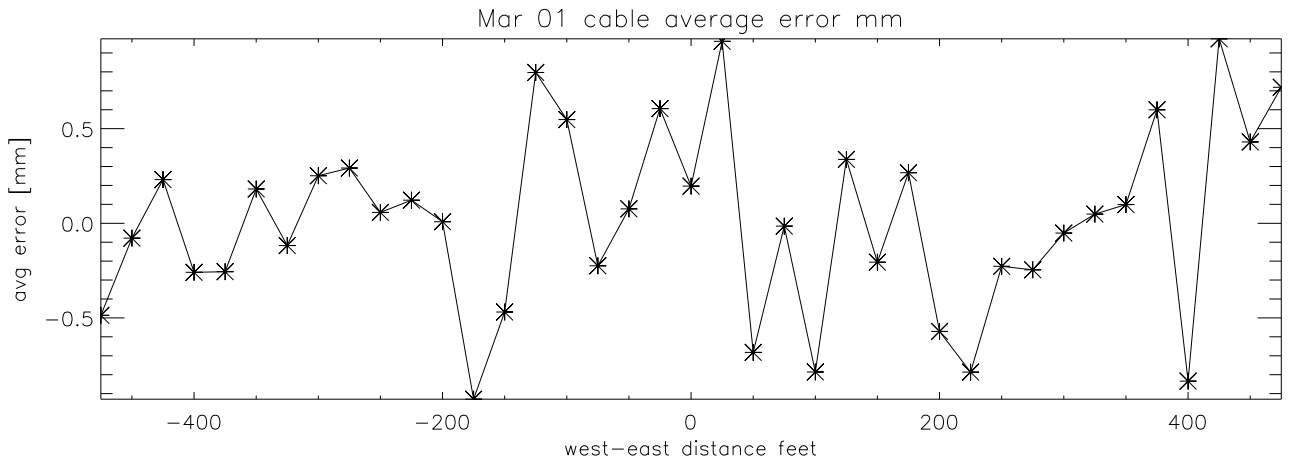

Jan 01 cable rms error mm
FIG 5
rms error [mm]
15
10
5
−400
−200
0
200
400
west−east distance feet

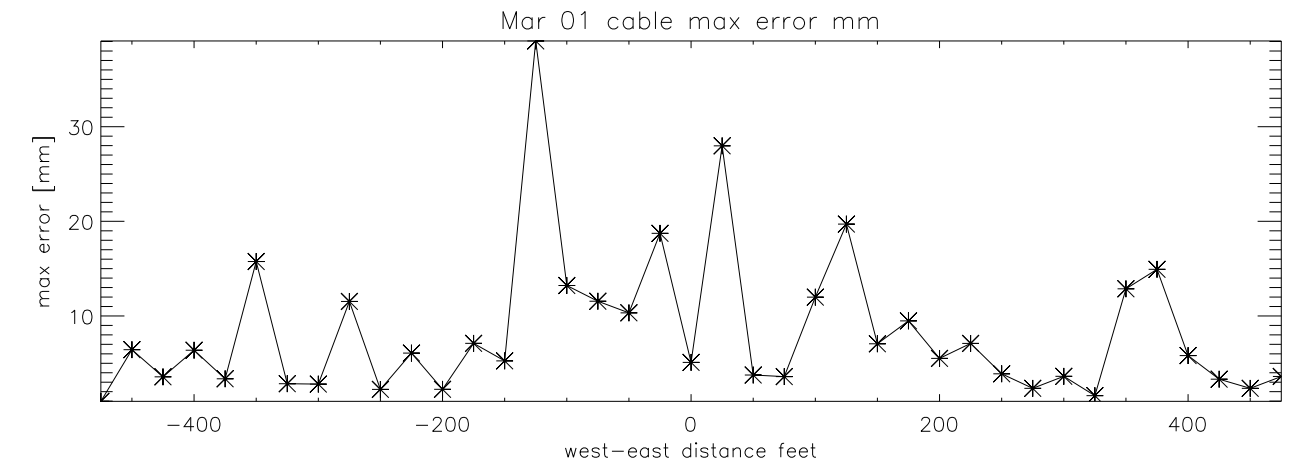

Jan 01 cable average error mm
avg error [mm]
3
2
1
0
−1
−400
−200
0
200
400
west−east distance feet

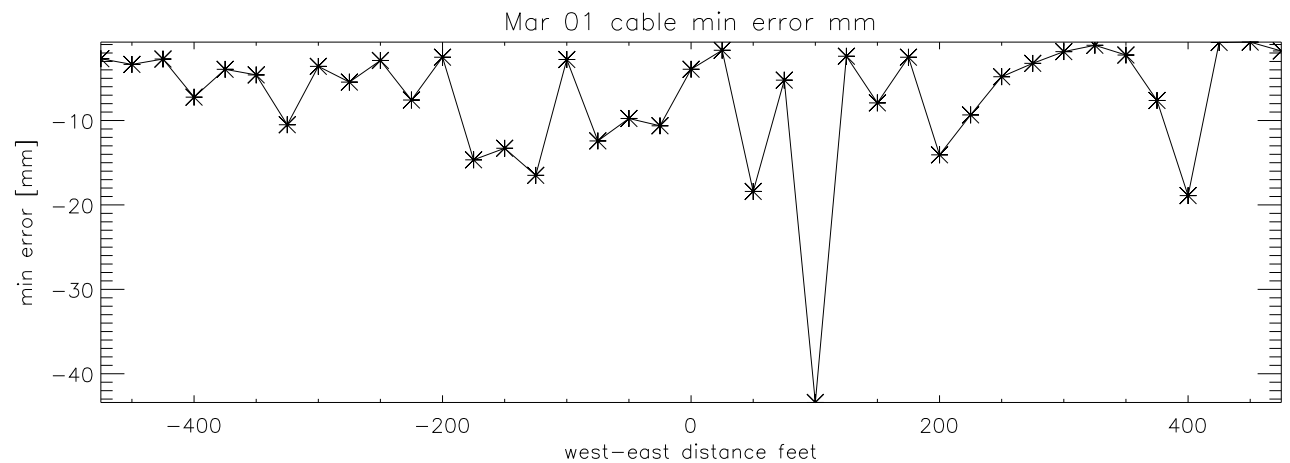

Jan 01 cable max error mm
max error [mm]
120
100
80
60
40
20
−400
−200
0
200
400
west−east distance feet

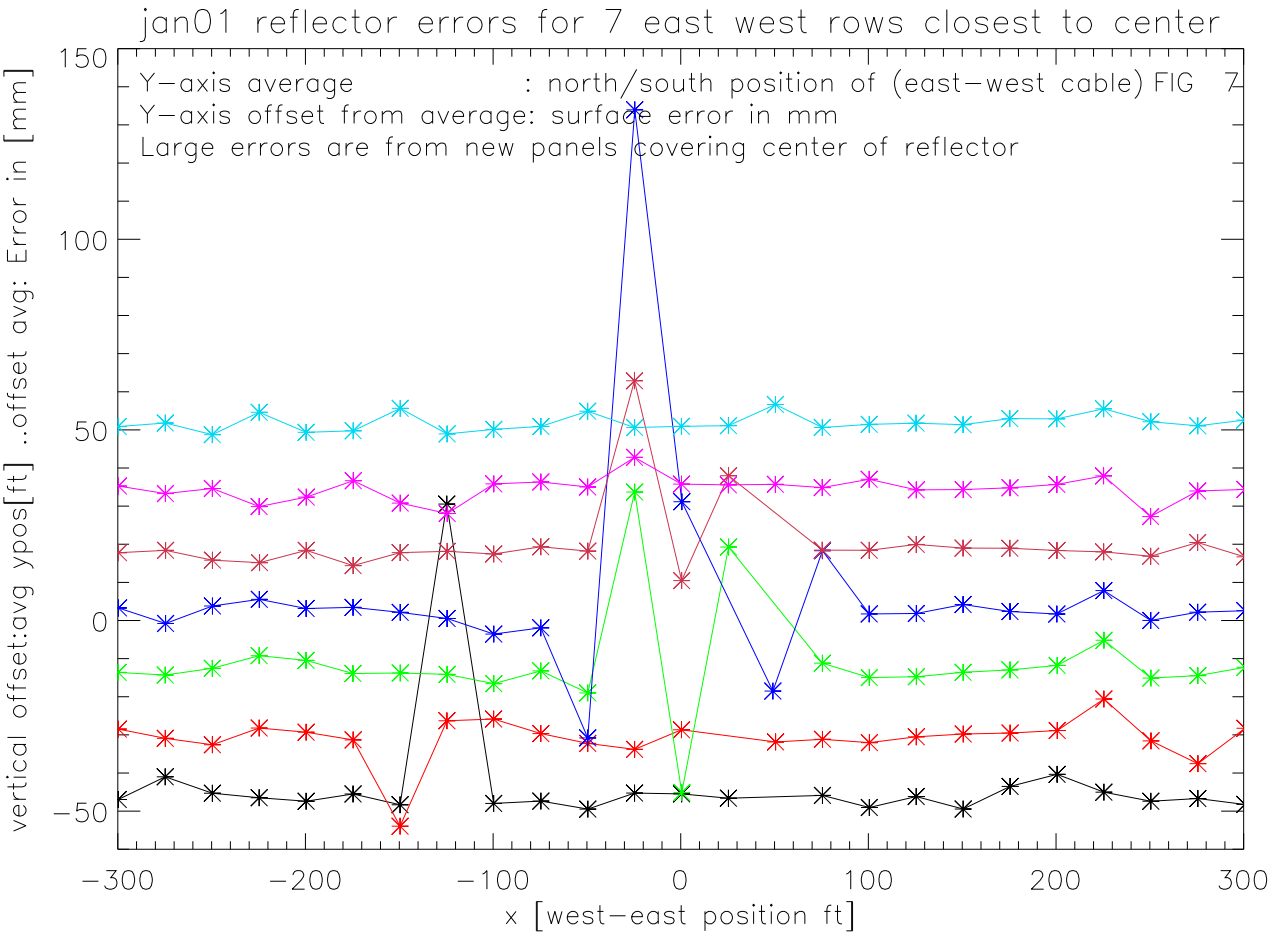

Jan 01 cable min error mm
min error [mm]
−5
−10
−15
−20
−25
−30
−400
−200
0
200
400
west−east distance feet

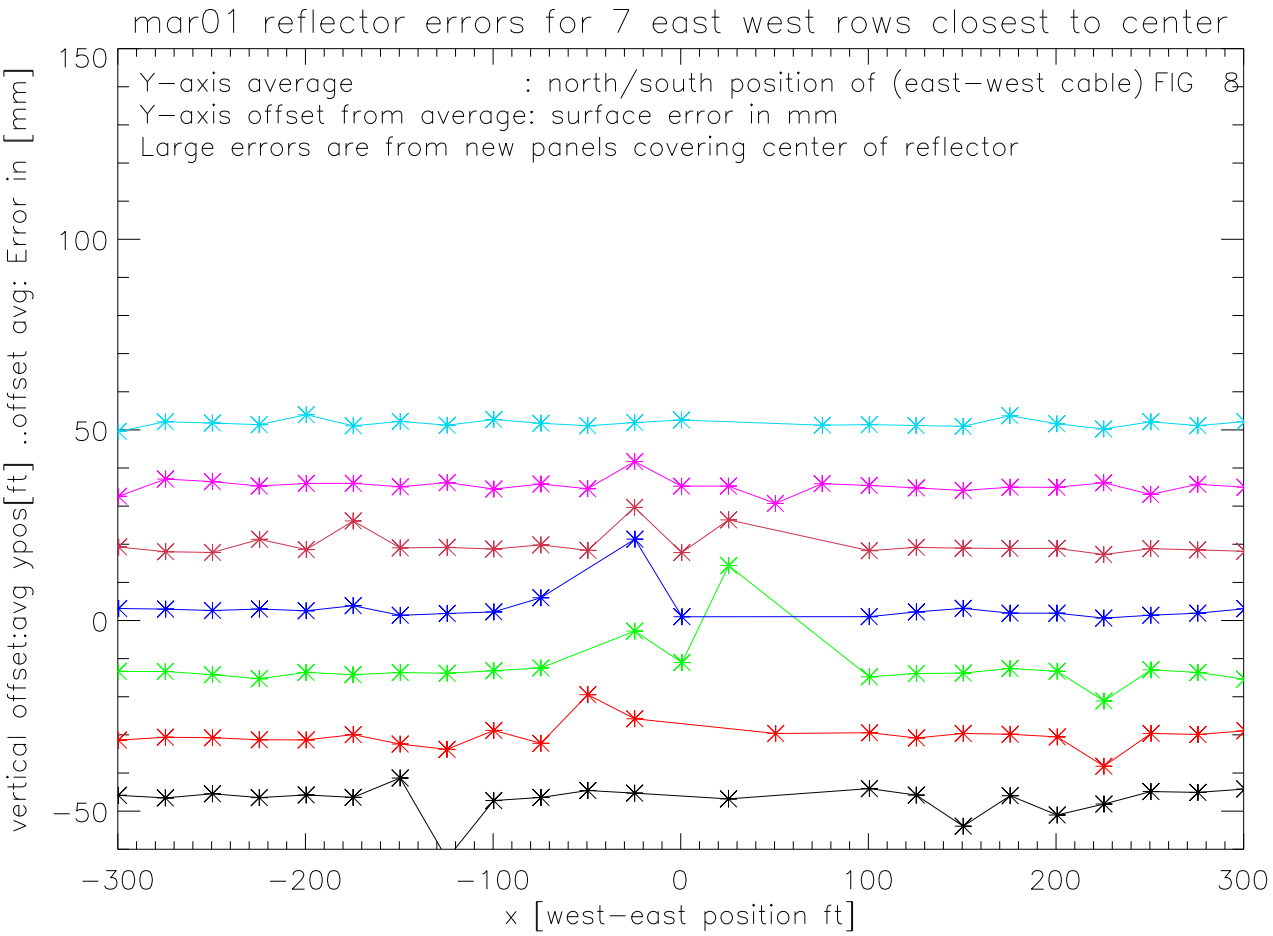

Mar 01 cable rms error mm
FIG 6
rms error [mm]
1
2
3
4
5
6
7
−400
−200
0
200
400
west−east distance feet


Mar 01 cable average error mm
avg error [mm]
−0.5
0.0
0.5
−400
−200
0
200
400
west−east distance feet


Mar 01 cable max error mm
max error [mm]
10
20
30
−400
−200
0
200
400
west−east distance feet


Mar 01 cable min error mm
min error [mm]
−10
−20
−30
−40
−400
−200
0
200
400
west−east distance feet


jan01 reflector errors for 7 east west rows closest to center
Y−axis average : north/south position of (east−west cable) FIG 7
Y−axis offset from average: surface error in mm
Large errors are from new panels covering center of reflector
vertical offset:avg ypos[ft] ..offset avg: Error in [mm]
150
100
50
0
−50
−300
−200
−100
0
100
200
300
x [west−east position ft]


mar01 reflector errors for 7 east west rows closest to center
Y−axis average : north/south position of (east−west cable) FIG 8
Y−axis offset from average: surface error in mm
Large errors are from new panels covering center of reflector
vertical offset:avg ypos[ft] ..offset avg: Error in [mm]
150
100
50
0
−50
−300
−200
−100
0
100
200
300
x [west−east position ft]