Observation update

Antenna calibration

Done and dusted

- All 12 antennas connected to the SNAPs are calibrated.
- Fitting and applying model in TPOINT (8 coeff):

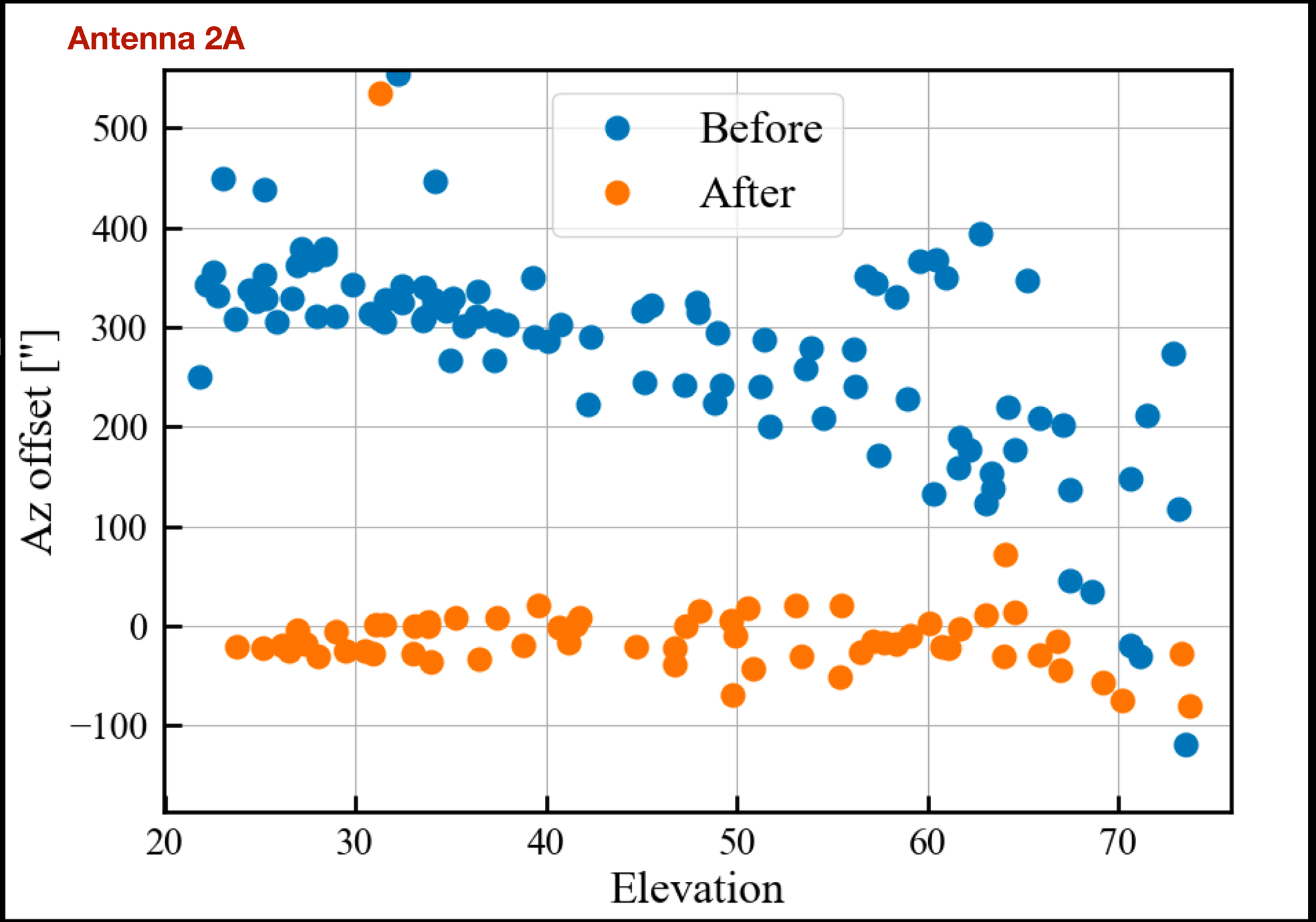
$$\Delta E = IE - AN \times \cos(A) + AW \times \sin(A) + ECEC \times \cos(E) + ECES \times \sin E$$
$$\Delta A \cos E = -[CA + IA \times \cos(E) + NPAE \times \sin(E) + AN \times \sin(E)\sin(A) - AW \times \sin(E)\cos(A)]$$

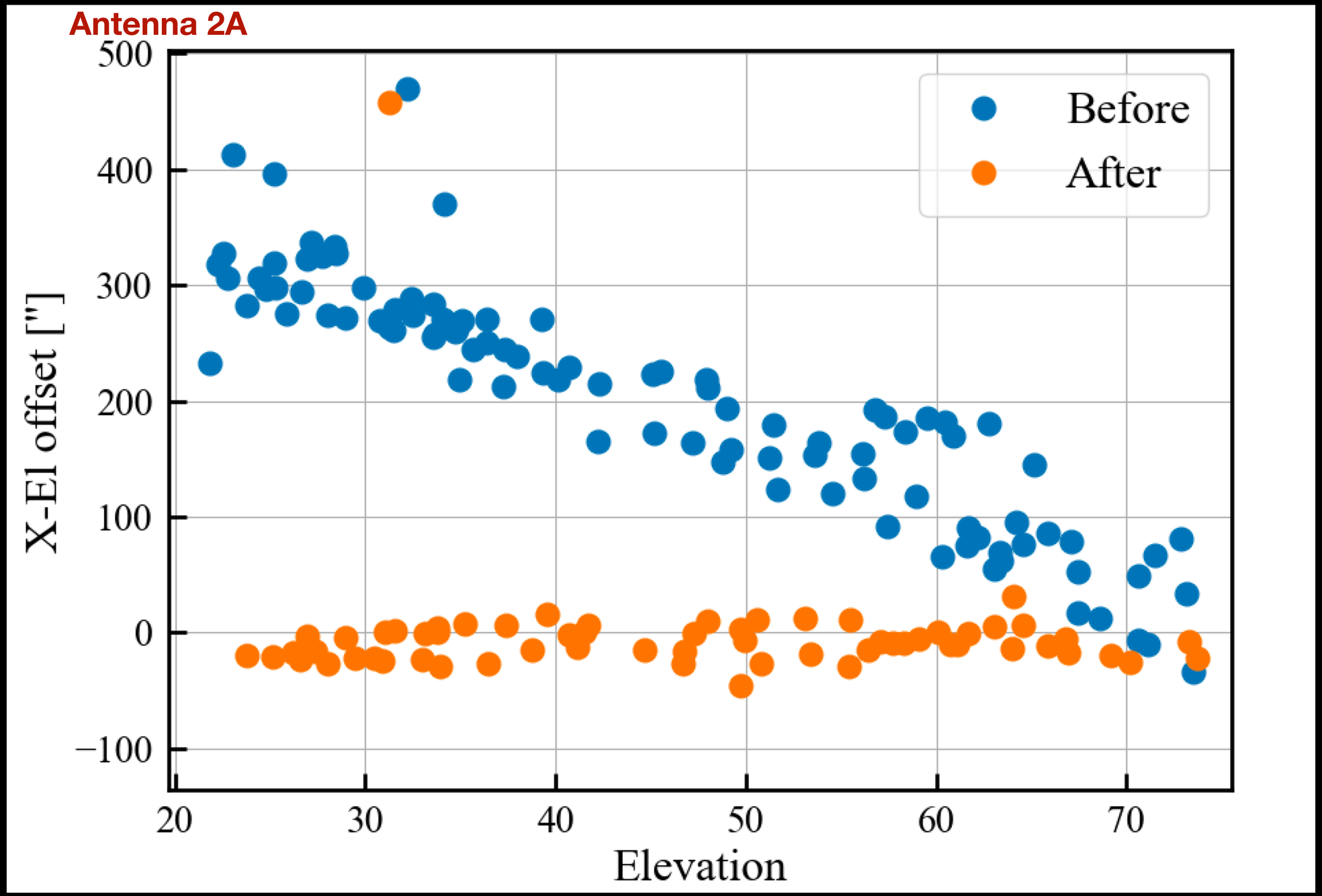
- Showing ant2a as an example:

Before: a set of observations with an old pointing model

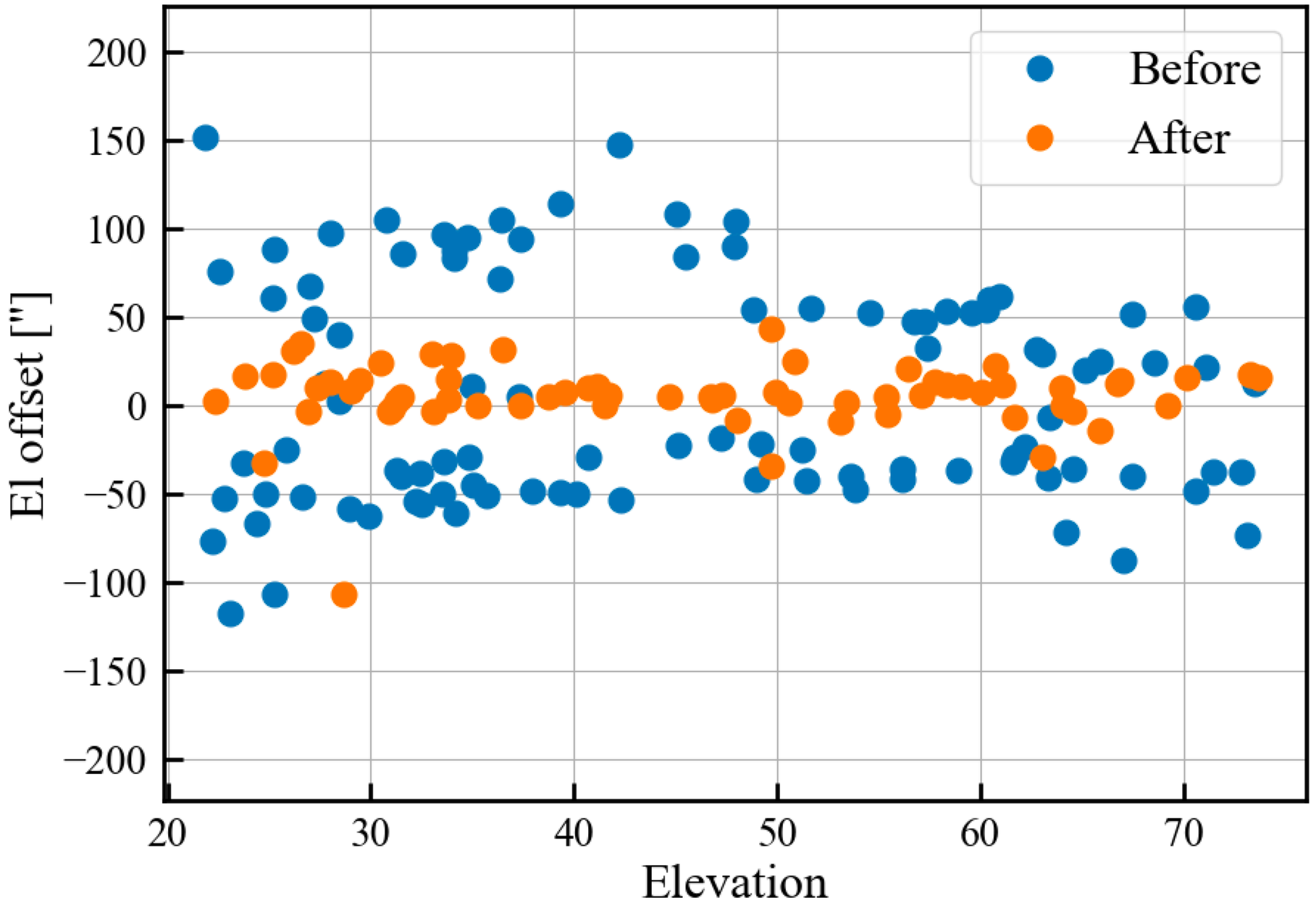
The “before” observation were used to fit a new model. Model was then deployed

After: another set of observations with the newly fitted pointing model

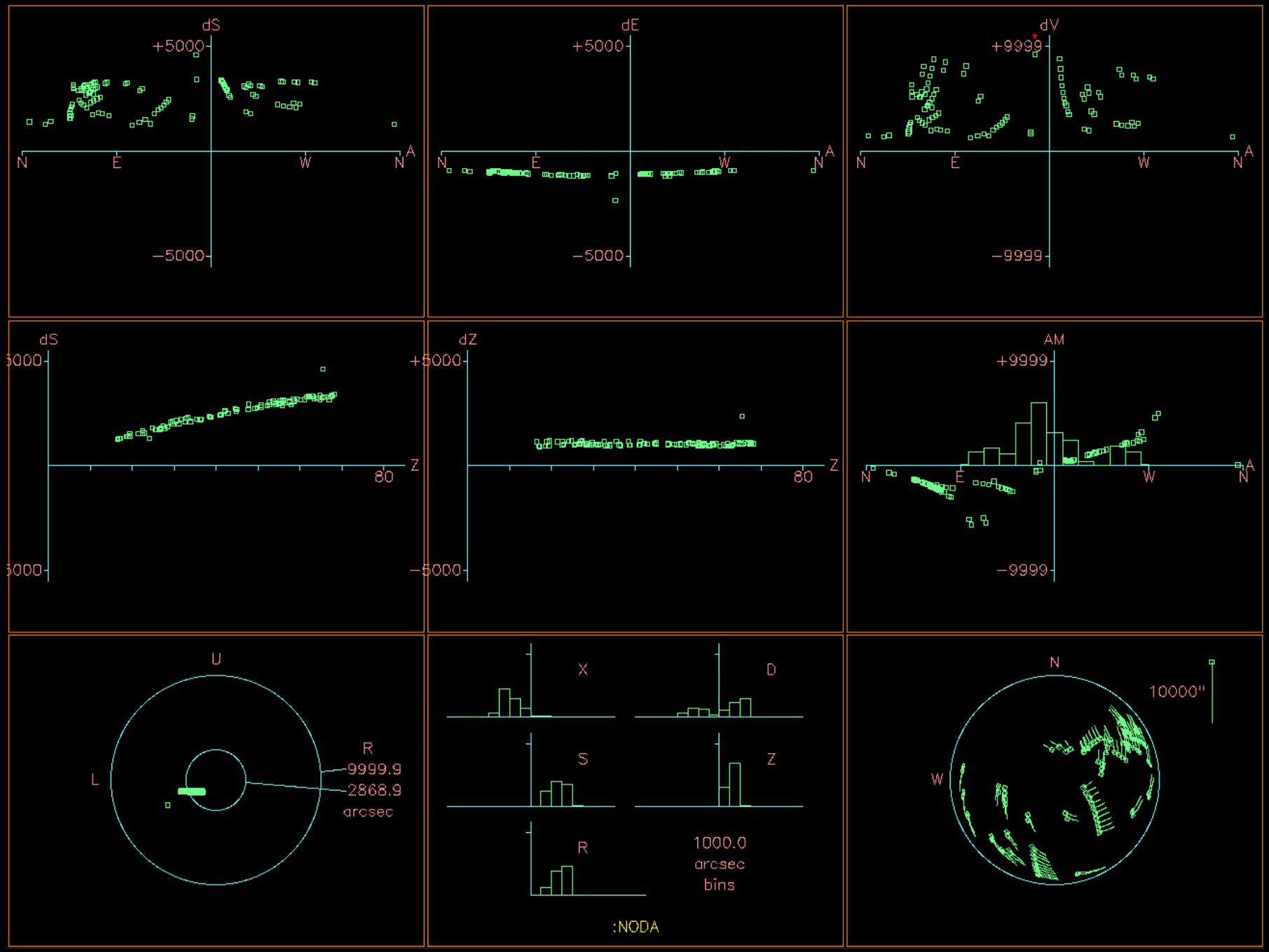



Antenna 2A
500
400
300
200
100
0
−100
X-El offset ["]
20
30
40
50
60
70
Elevation
Before
After

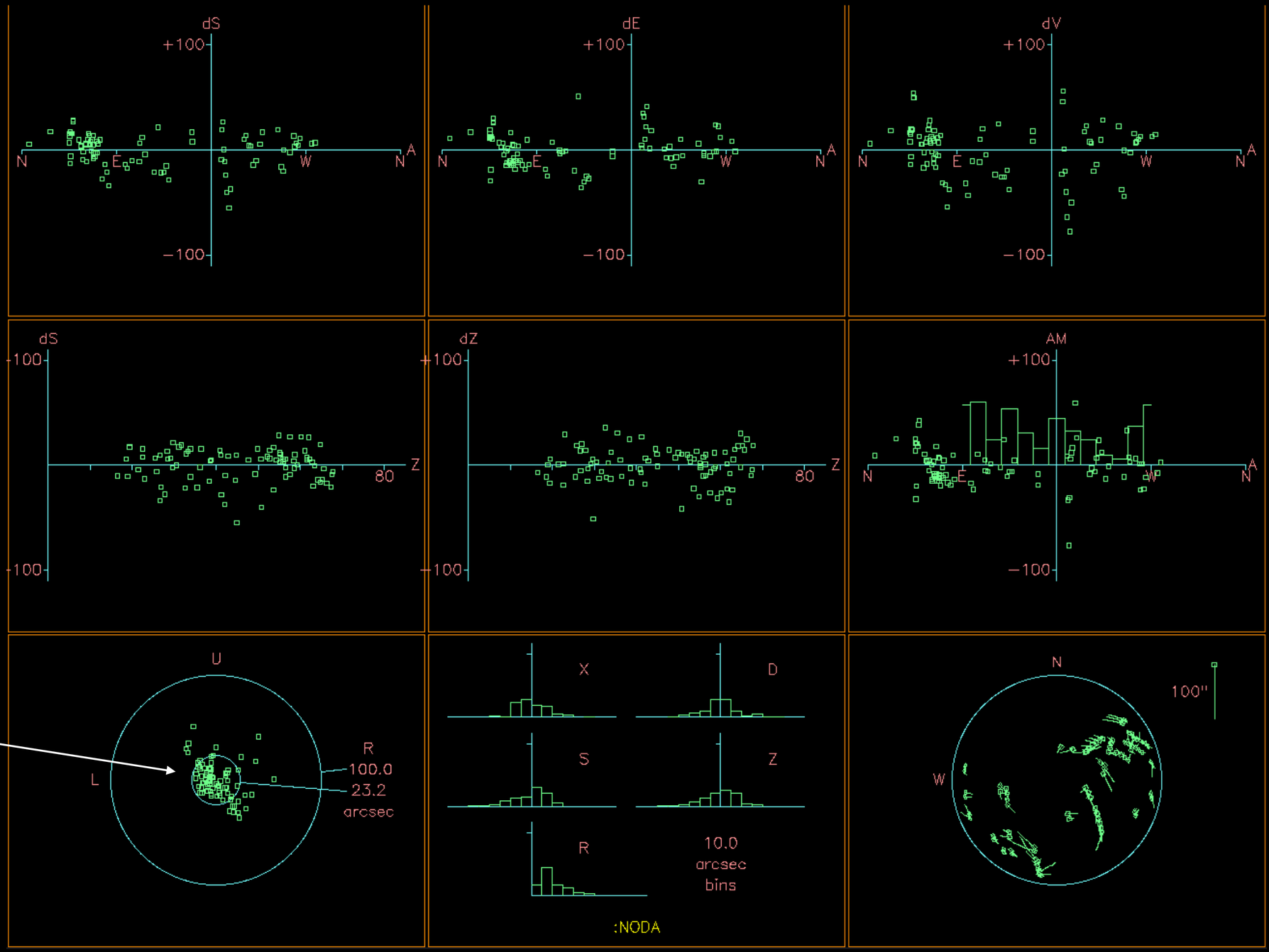
Antenna 2A


Before
After
El offset ["]
200
150
100
50
0
−50
−100
−150
−200
20
30
40
50
60
70
Elevation

Antenna 2A
TPOING
before fitting



Antenna 2A TPOINT after fitting



Sky RMS = 23.2 arcsec