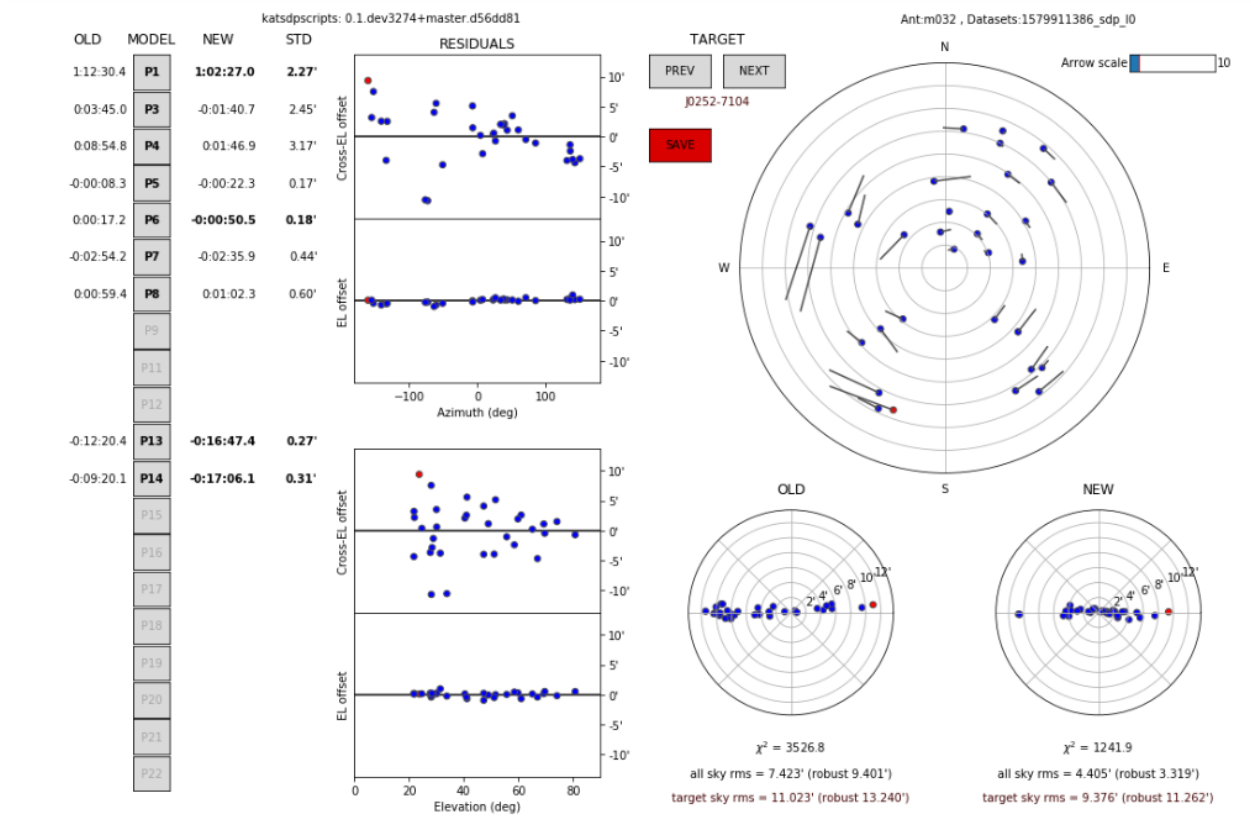
[4k,L-band,2s] Interferometric Pointing on 2020-01-25

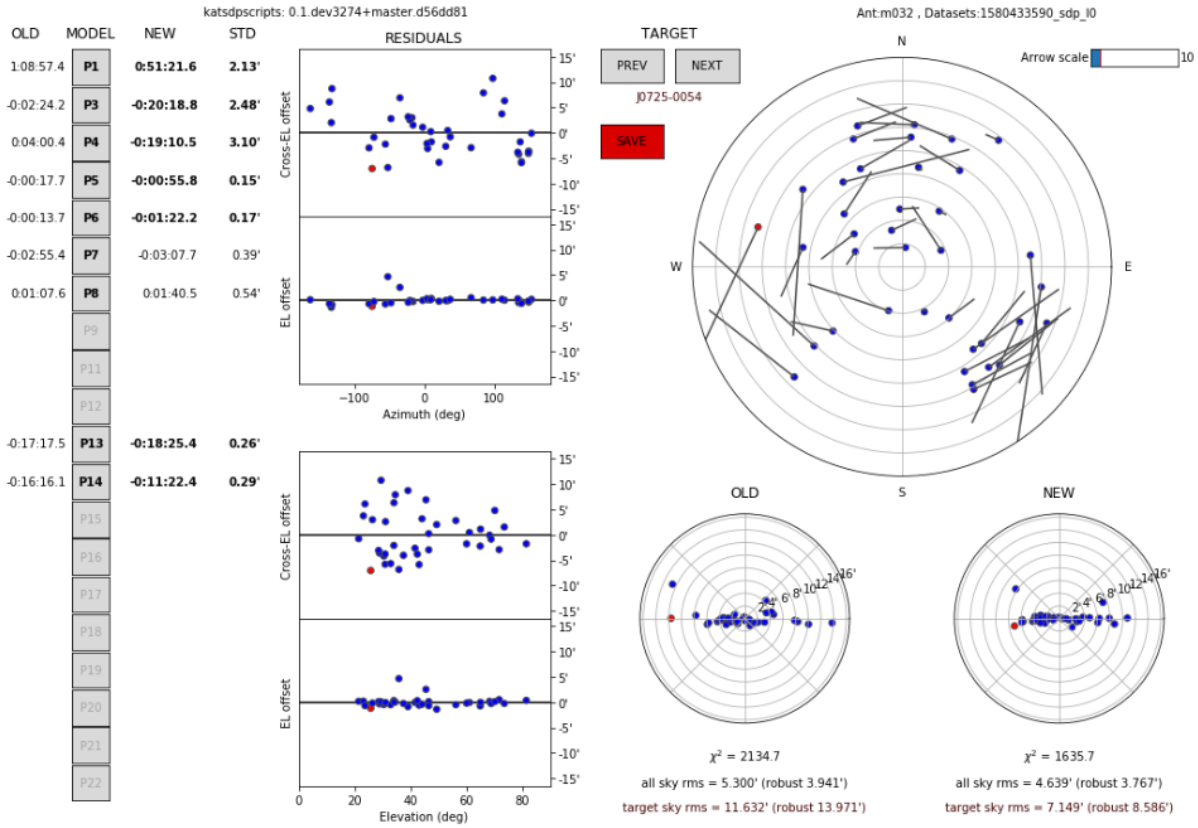


Pointing shows issues with M032, looks like issues with the azimuth encoder offset (P1) and the azimuth axis offset. Parameters P13 and P14 have been added, probably to get reasonable fit? Pointing check showing a 20 arcminute offset
https://archive.sarao.ac.za/tasklog/20200128-0005/progress

M032 is still usable.

Tiltmeter monitoring report by Adriaan for M032 below
https://docs.google.com/document/d/1dJYcLUKYeH0orsejPgekH_V-XgWF568LJb_b2l-60kQ/edit#

[4k,L-band,2s] Interferometric Pointing on 2020-01-31

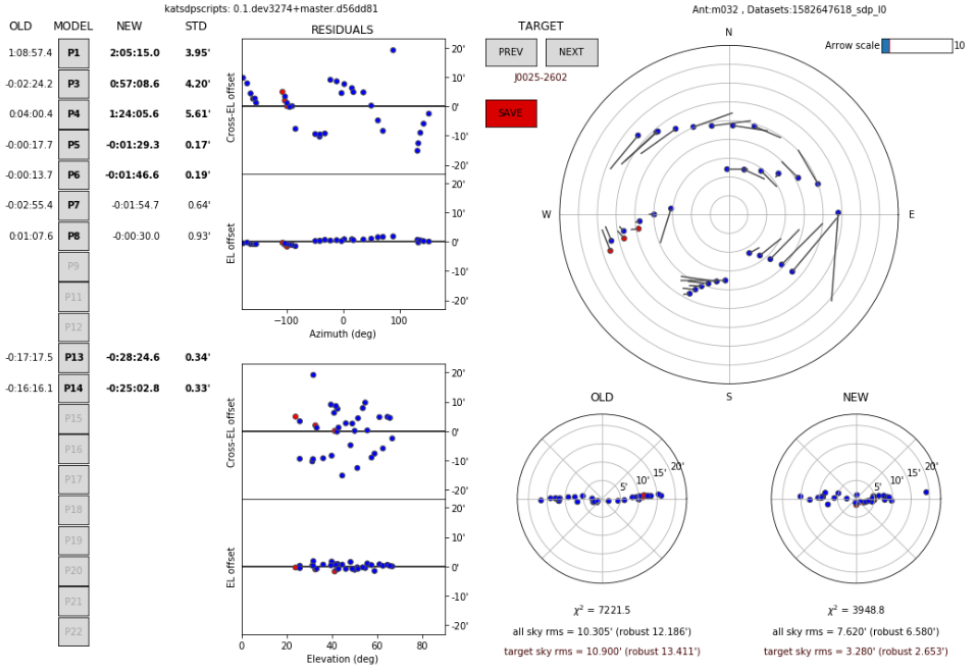


Not much change in the pointing, all sky rms around 4 arcminutes. Highlighted parameters indicate issues with the following:

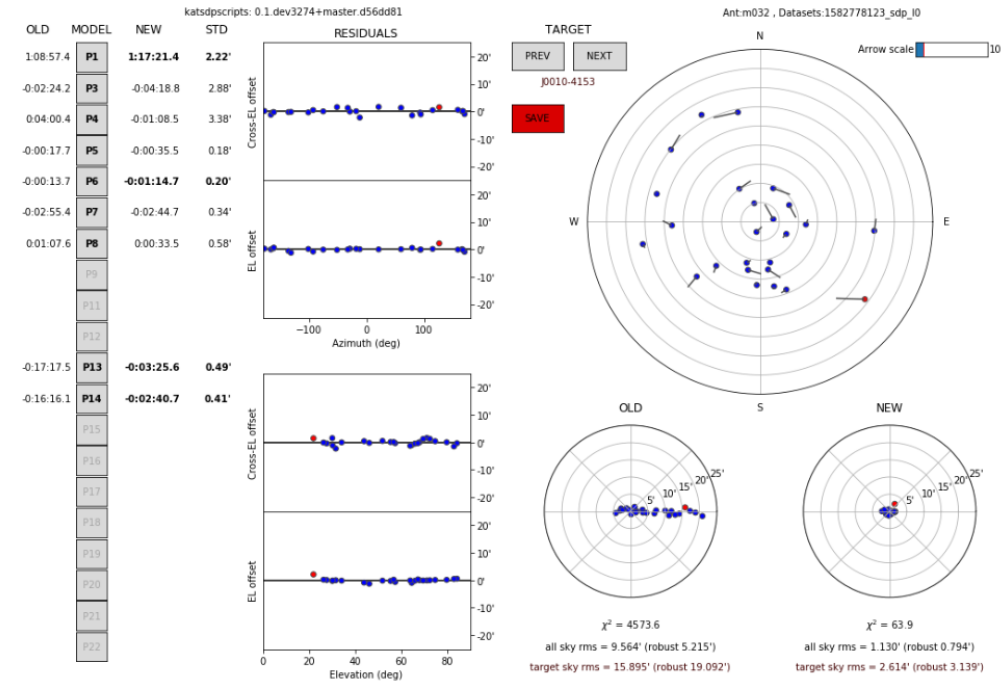
- Azimuth encoder offset
- Non-perpendicularity between Az and El axes
- Collimation error (main dish not pointing at subreflector)
- Az axis offset/misalignment

Tiltmeter parameters have been updated for M032 by Adriaan on 2020-01-30.

[1k,L-band,1s] Interferometric Pointing on 2020-02-25



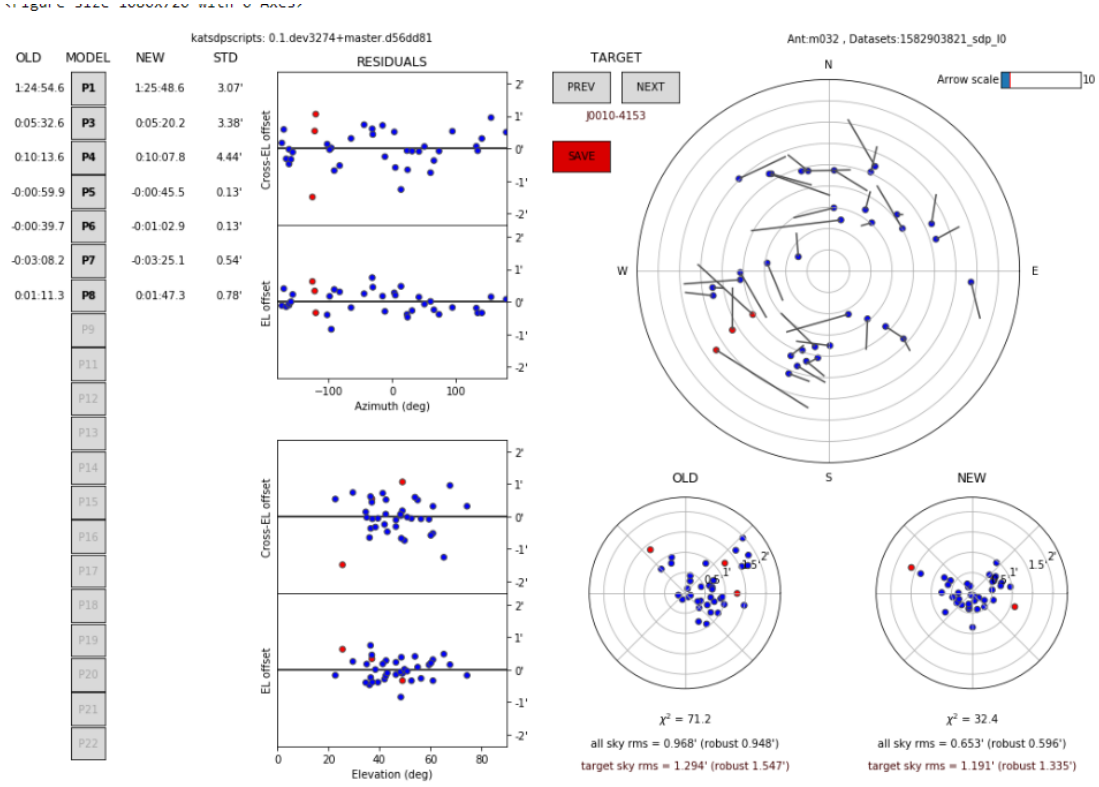
[4k,L-band,1s] Interferometric Pointing on 2020-02-27



Pointing models show improvement. Points are clustered in the new model and all sky rms has improved. Improvement has been due to adjusting the 2 alignment wheels which had been

pushing against the torque tube connected to the az encoder so that they do not touch at full rotation. This had been done by Matthys and the team on site.
[OPS-656]

[1k,L-band,1s] Interferometric Pointing on 2020-02-28



Pointing looks much better and all sky rms is within the range. M032 can be used for science.