

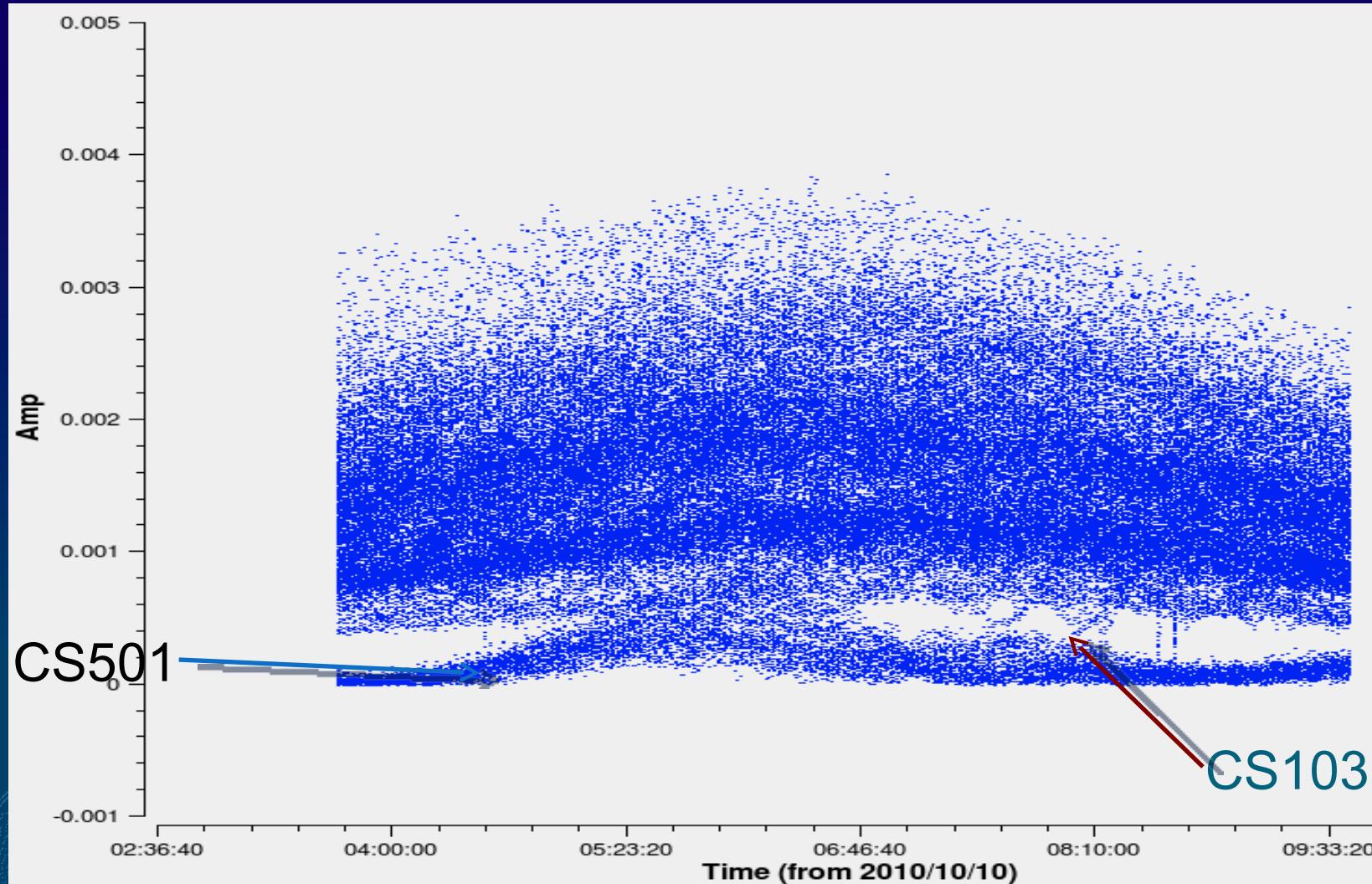
Data analysis 3C196 + ITRF beamserver

Ilse van Bemmel

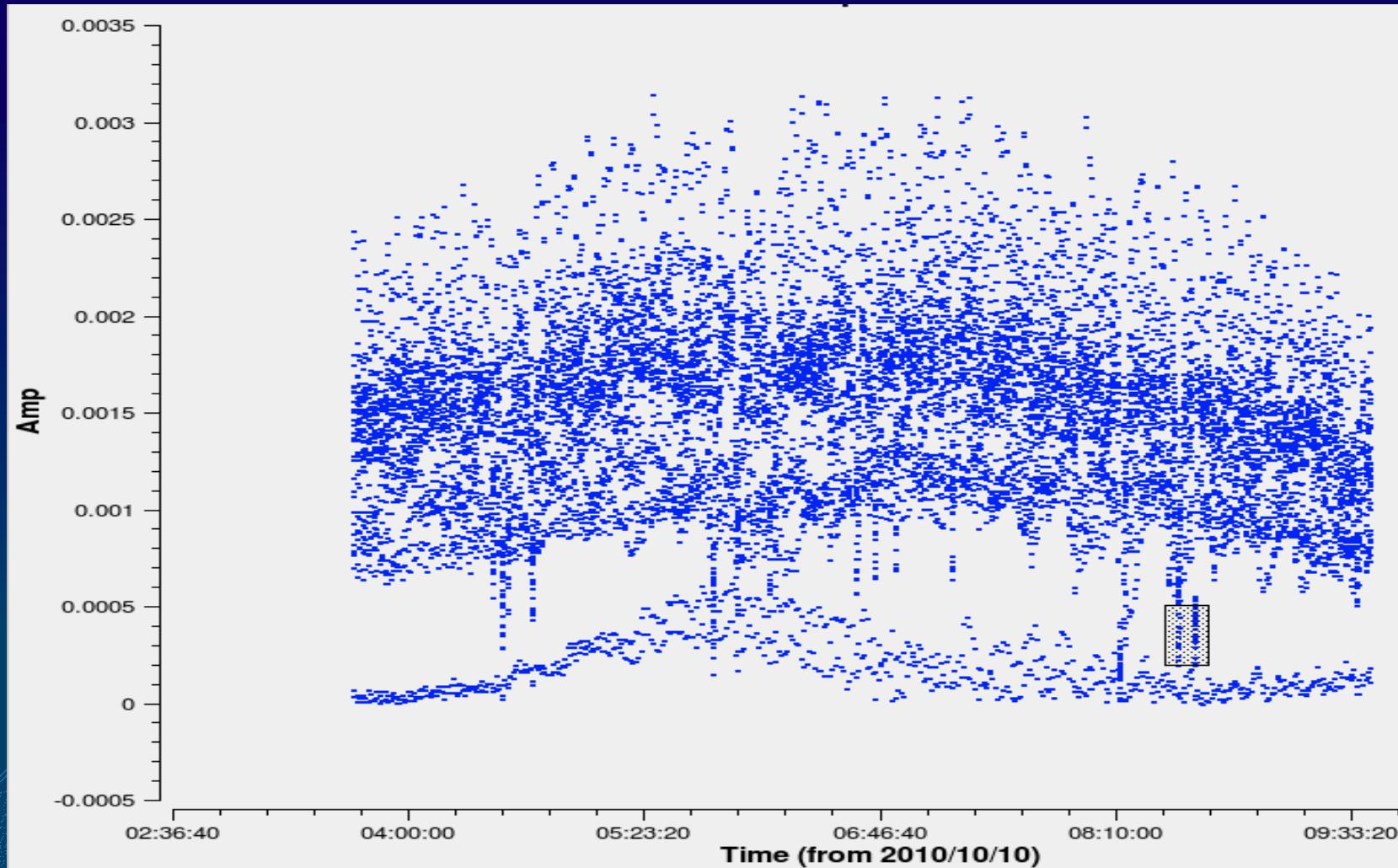
Data

- ITRF beamserver
- 3C196 field
- 6 hours
- HBA (tossed the HBA1 fields)
- NDPPP: combine channels, MAD-flagger

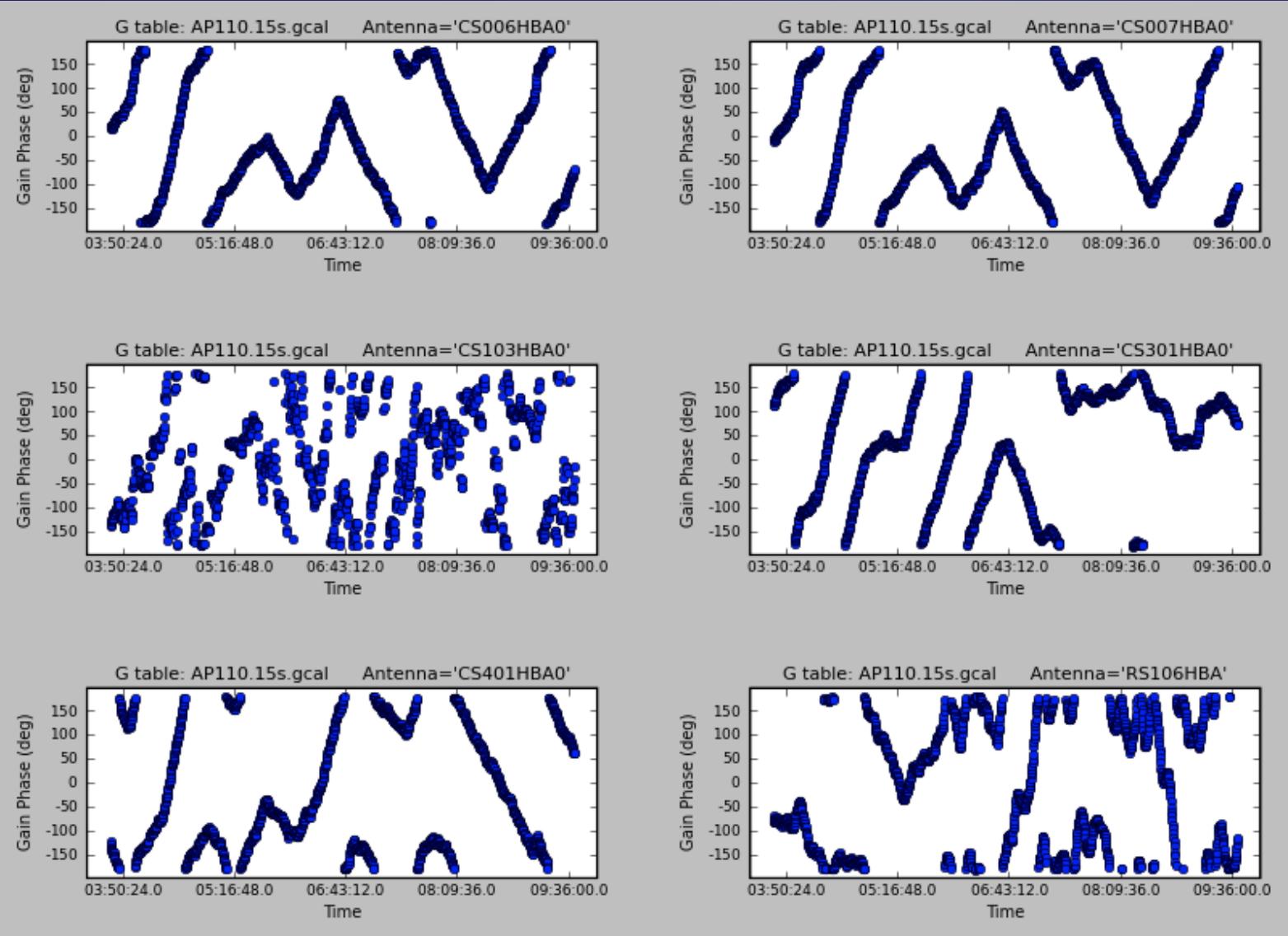
Data inspection

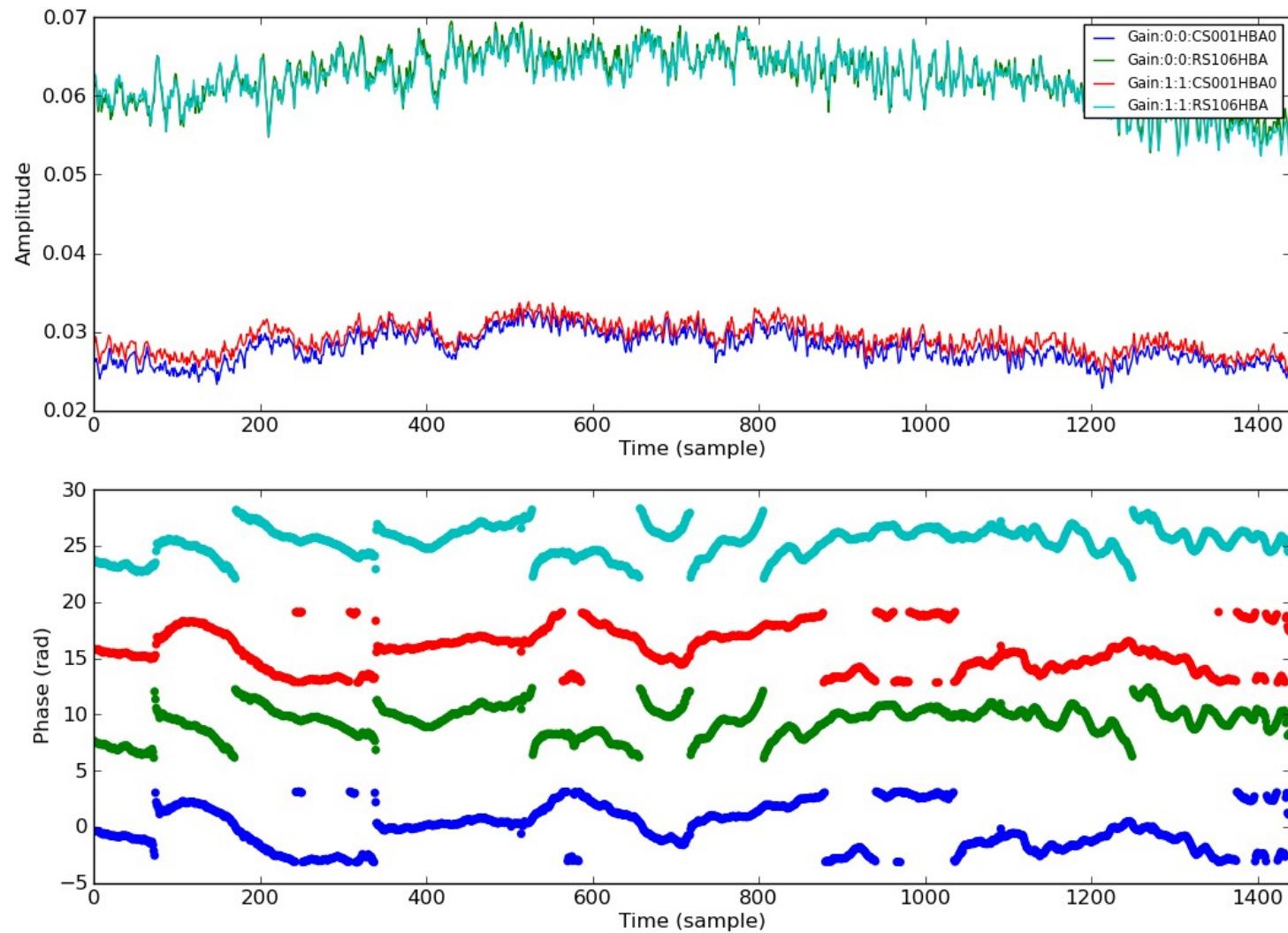


Data inspection



Calibration





van Zwieten with BBS

Imaging

- Wide field:

$$w\text{-planes} = \lambda B/D^2 = 25$$

$$\lambda = 2.2 \text{ m}$$

$$B = 30 \text{ km}$$

$$D = 50 \text{ m}$$

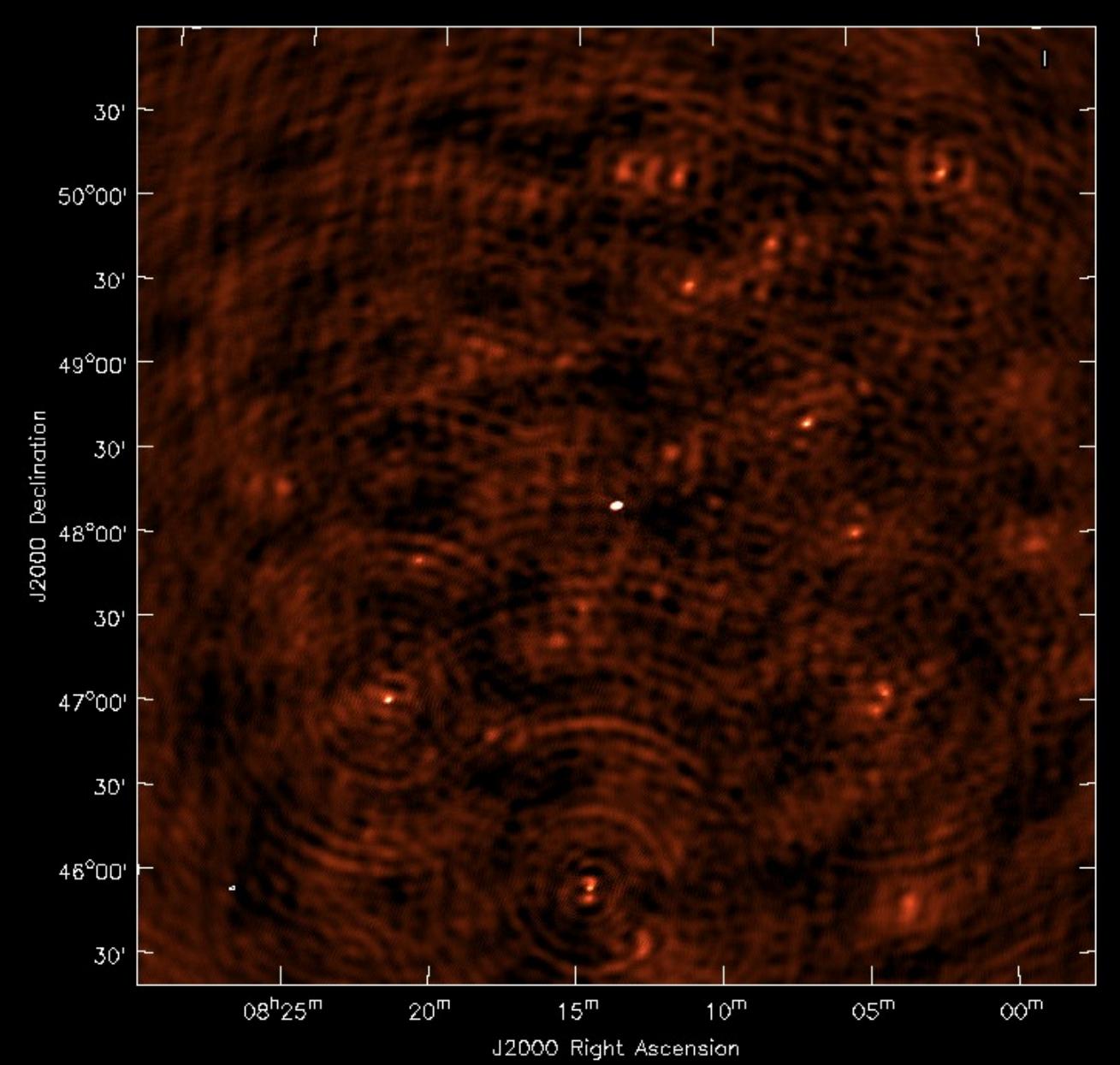
use

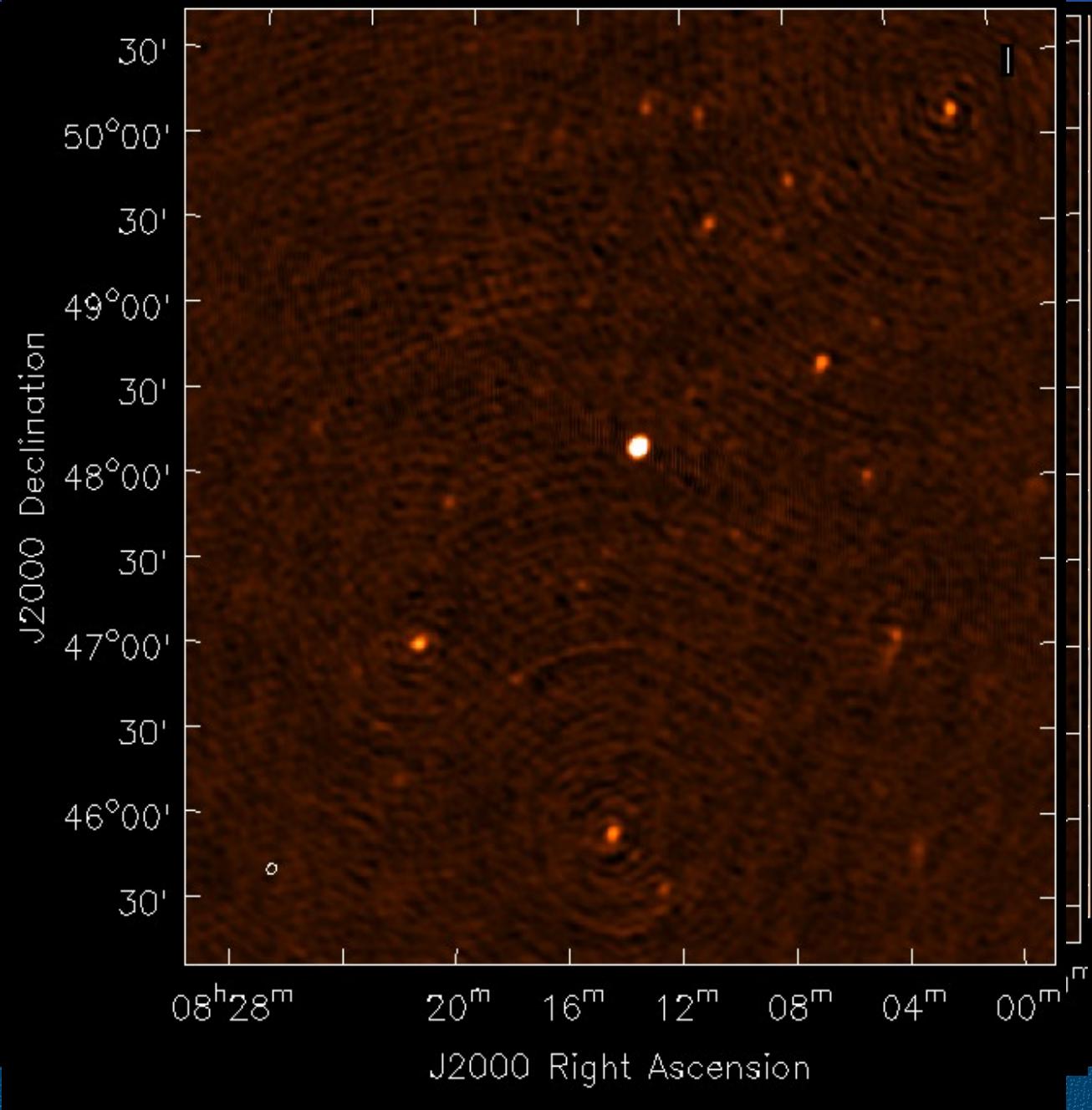
$$w\text{-projplanes} = 32$$

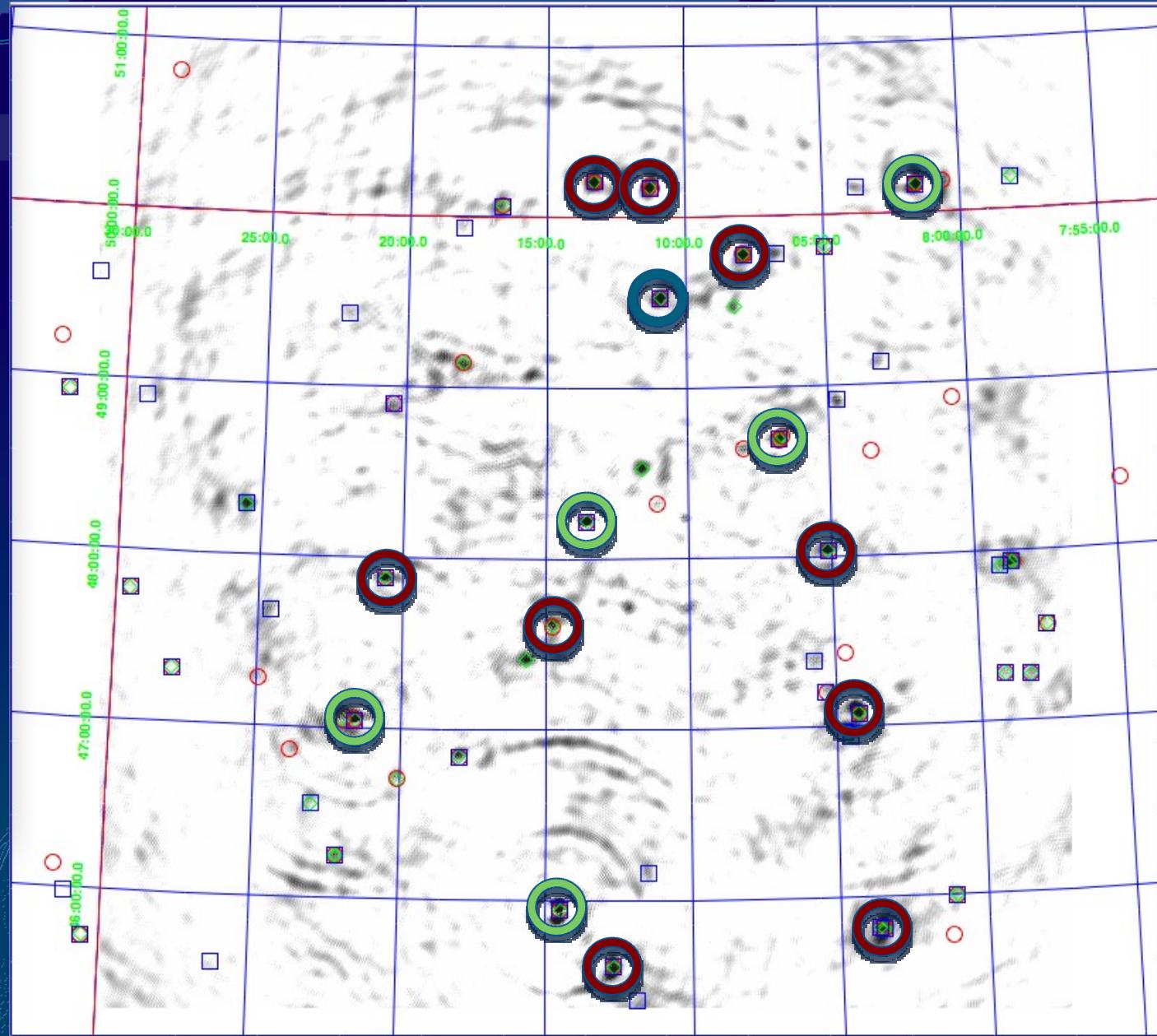
$$\text{cell} = 10 \text{ arcsec}$$

$$\text{image size} = 2048^2$$

Result







Conclusions

- Excellent data quality!
- Need better output for rficonsole
- W-projection essential: w-planes = 32
- Natural weighting
- Clark clean
- Next:
 - update skymodel and calibrate again
 - compare to BBS results

BBS multi-source attempt

- Directional gain calibration to 6 brightest sources
- Subtract 5 brightest sources
- Correct for source 6
- Image in CASA

