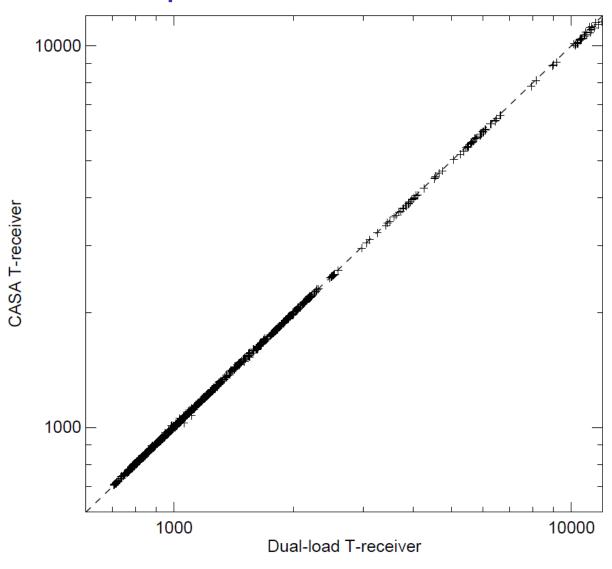
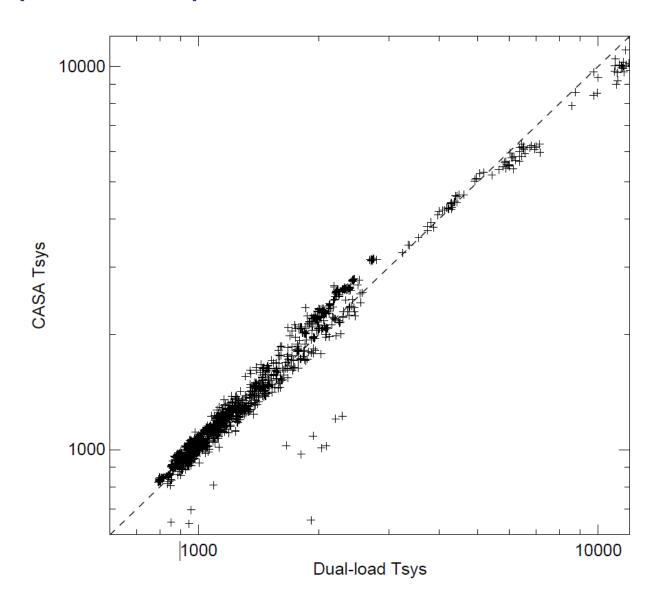
Single-Dish Calibration and Imaging

Datasets from 2017/03/16 (Band 3) and 2017/03/23 (Band 6)

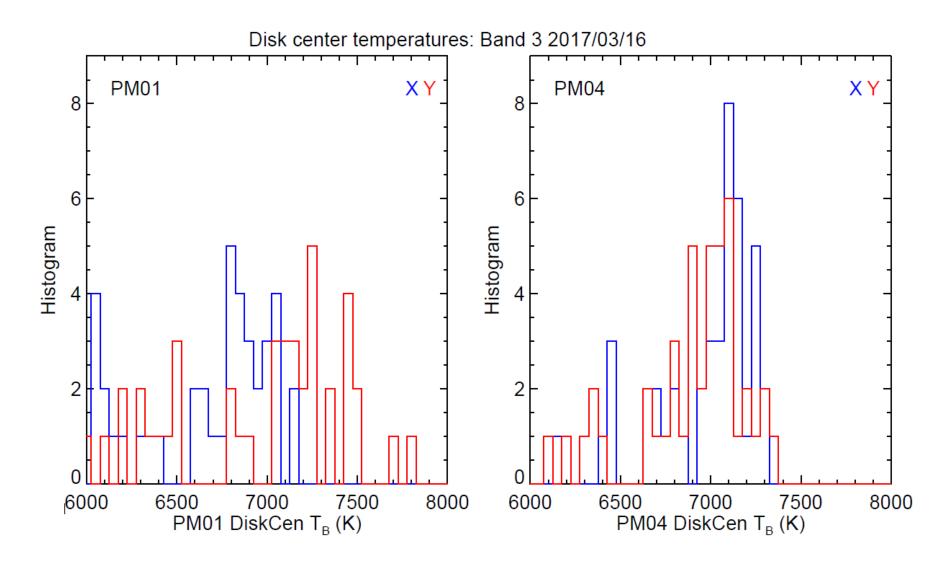
Comparing calibration per commissioning paper with CASA: receiver temperature



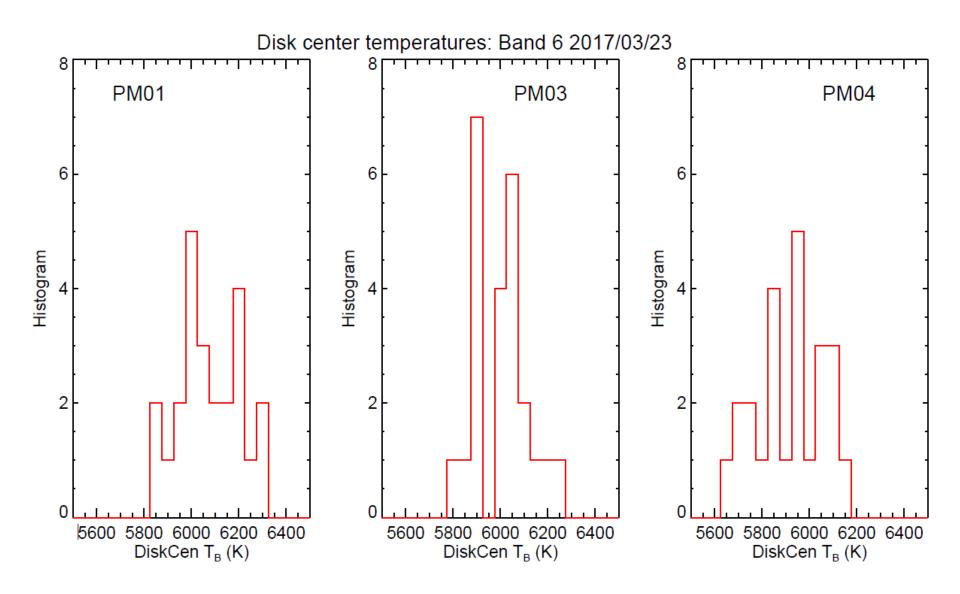
Comparing calibration per commissioning paper with CASA: system temperature



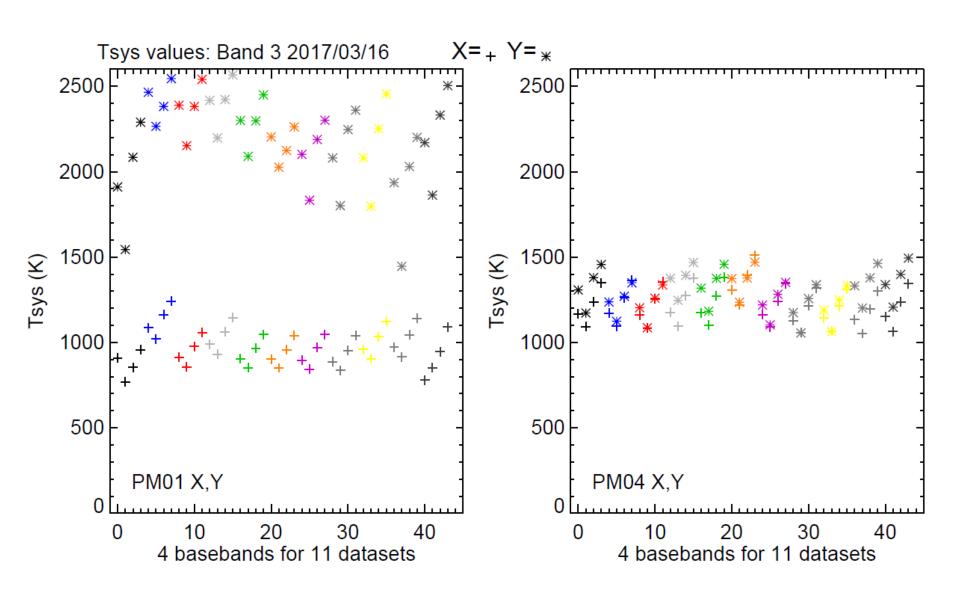
Disk center brightness temperatures: Band 3



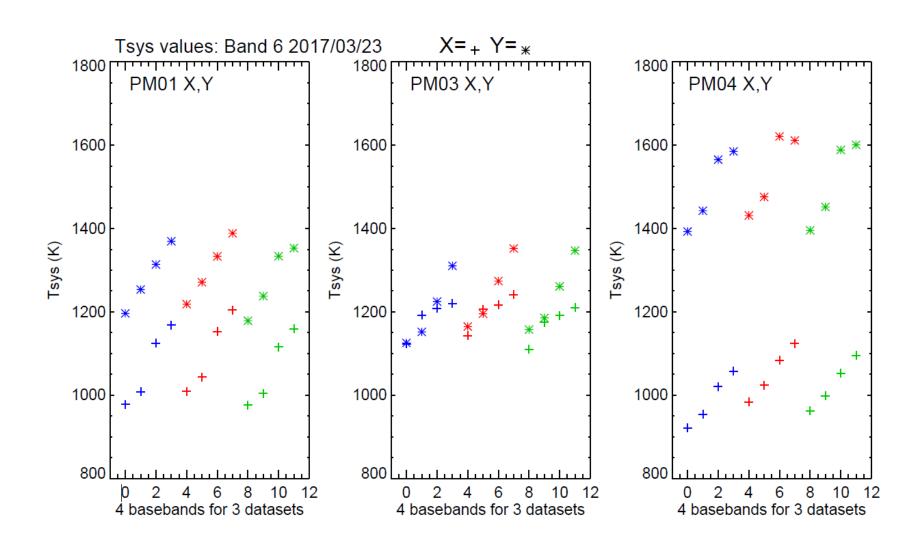
Disk center brightness temperatures: Band 6

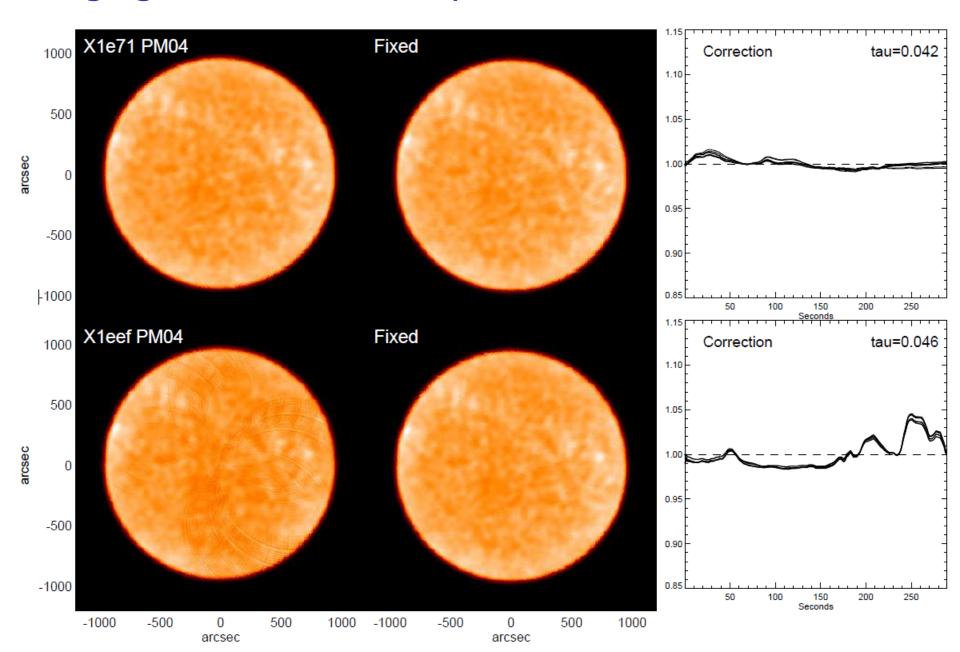


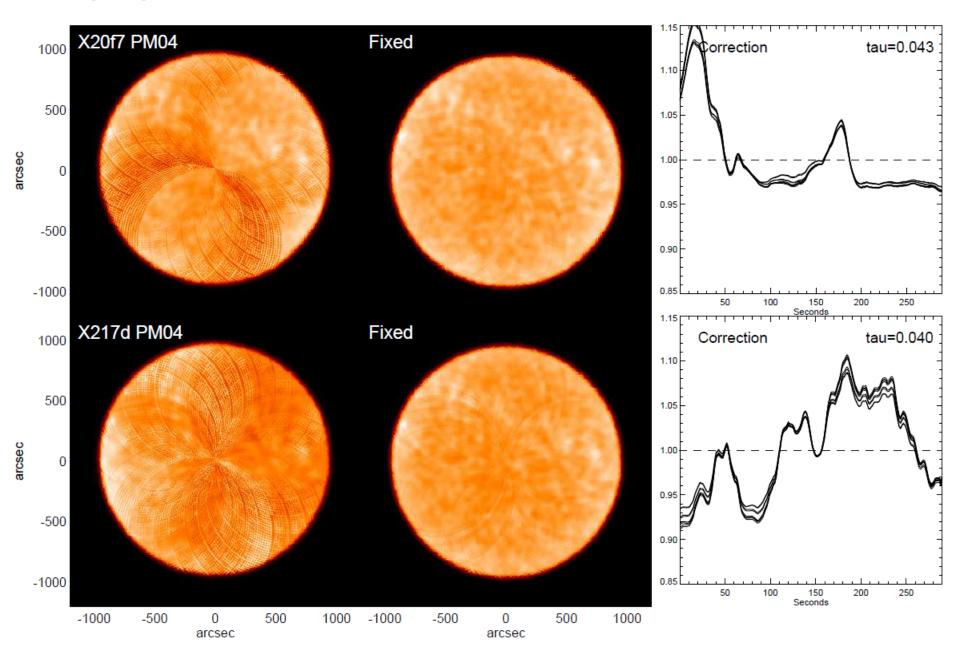
System temperatures vs polarization: Band 3

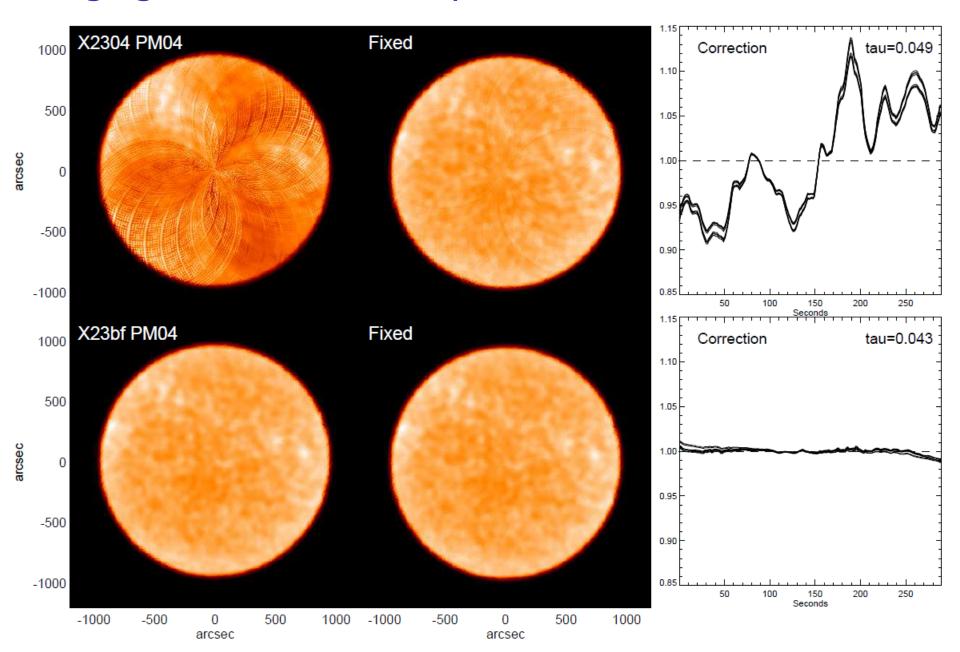


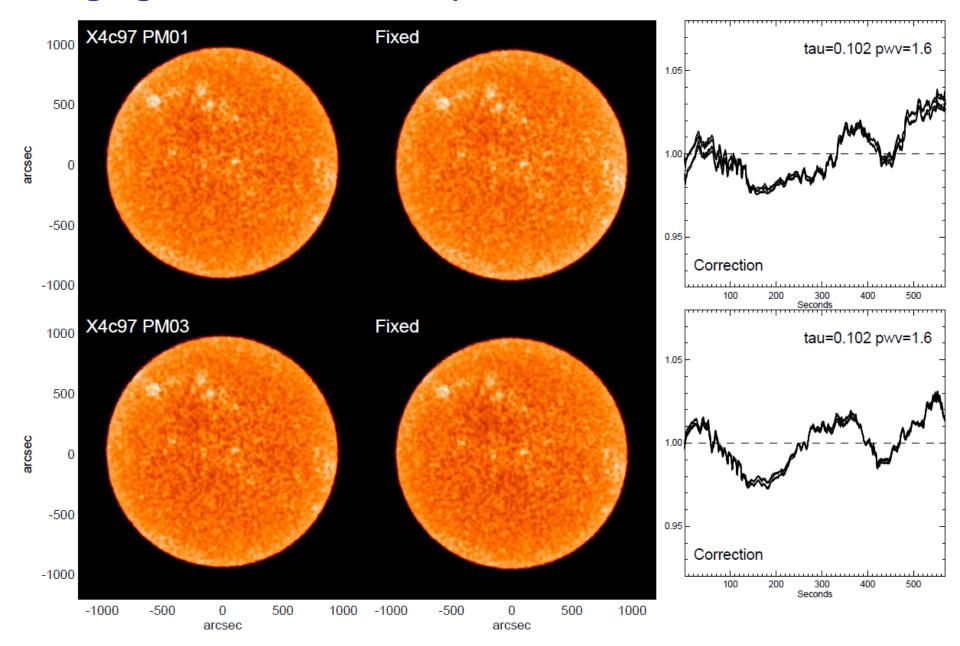
System temperatures vs polarization: Band 6

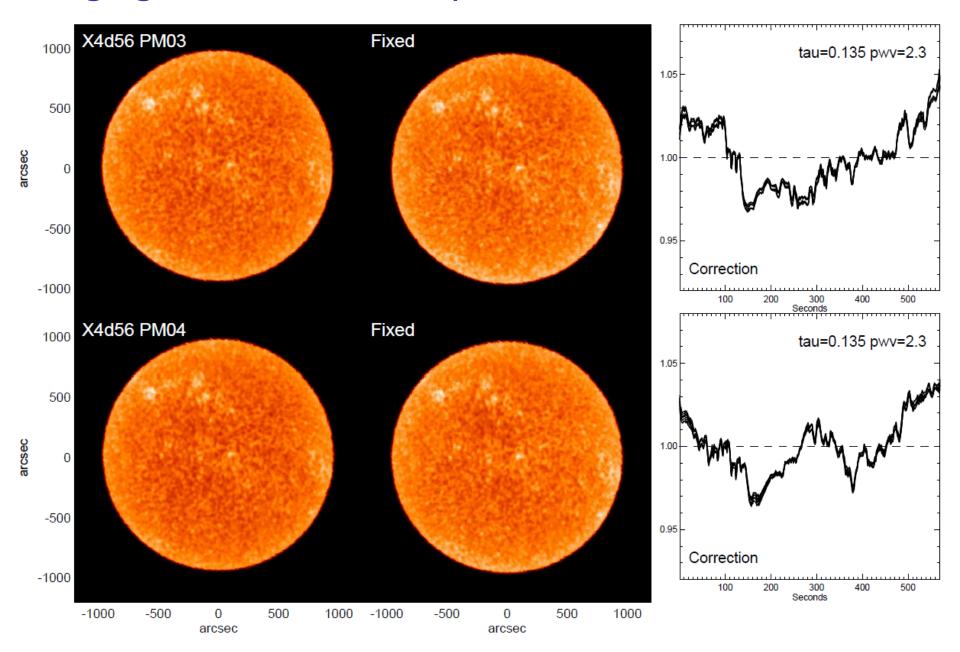












Summary

- Calibration errors remain significant, and for a given antenna we can see large differences in Tsys between X and Y polarizations.
- However, scaling of T_B is not as bad as the problem with Tsys
- The atmospheric correction procedure generally works well to improve the images, although my implementation does not fix everything.
- CASA has a program to carry out the correction: sdgaincal. It
 implements a previous version: I have not tested it much since I
 assumed it would not be needed for Bands 3 and 6.
- Data such as these show that correction may actually be needed for Bands 3 and 6.
- The reason for 15% fluctuations in the gain at Band 3 when tau
 is only 5% can be explored.