

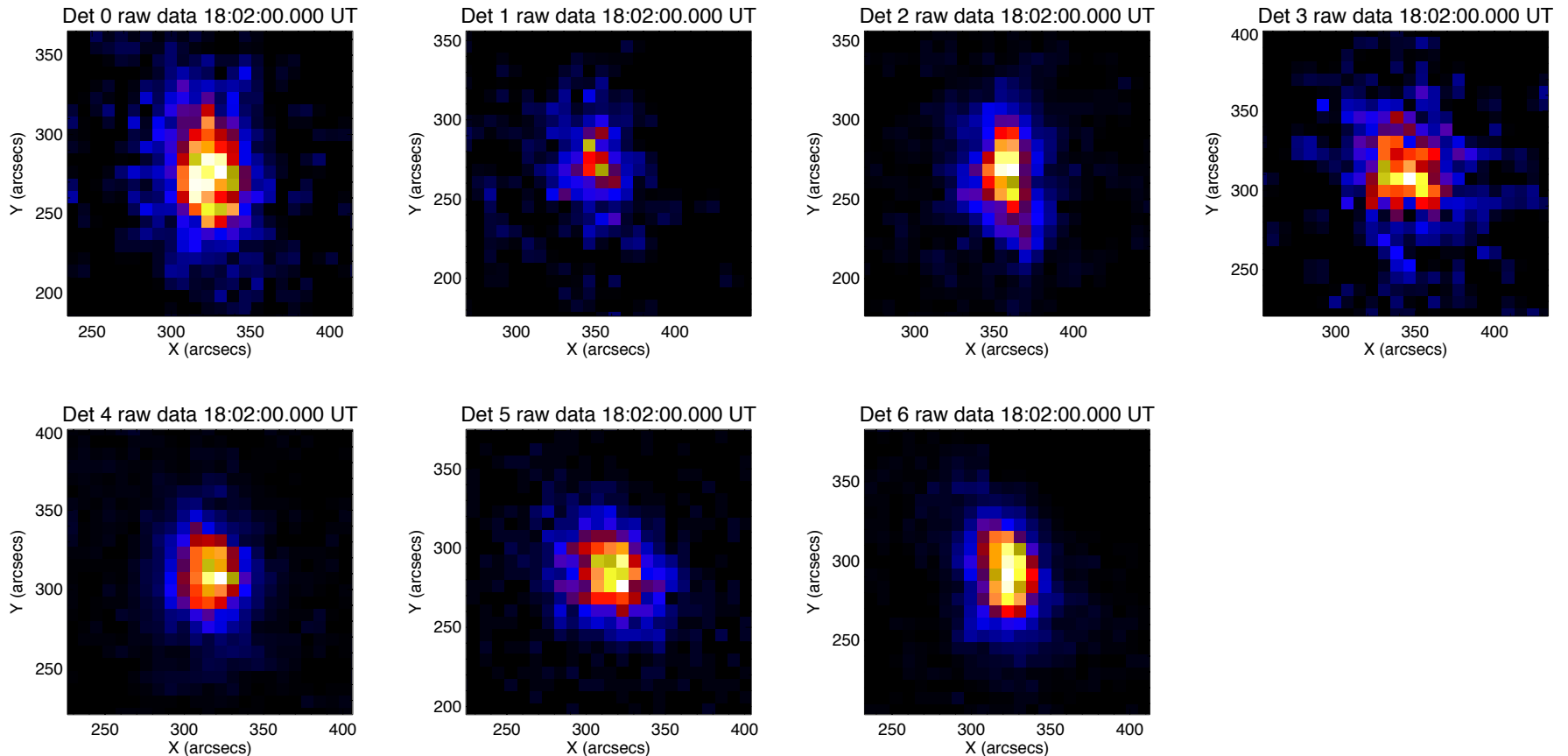
Update on FOXS1-1 image deconvolution

2014 Jan 21

Changes

- Found bug in image binning!
 - Redid analysis converting raw data directly into plot_maps and using only rot_map, etc.
- Smooth PSF (see later)
- Tried changing platescale (see later)

Raw images, no deconvolution

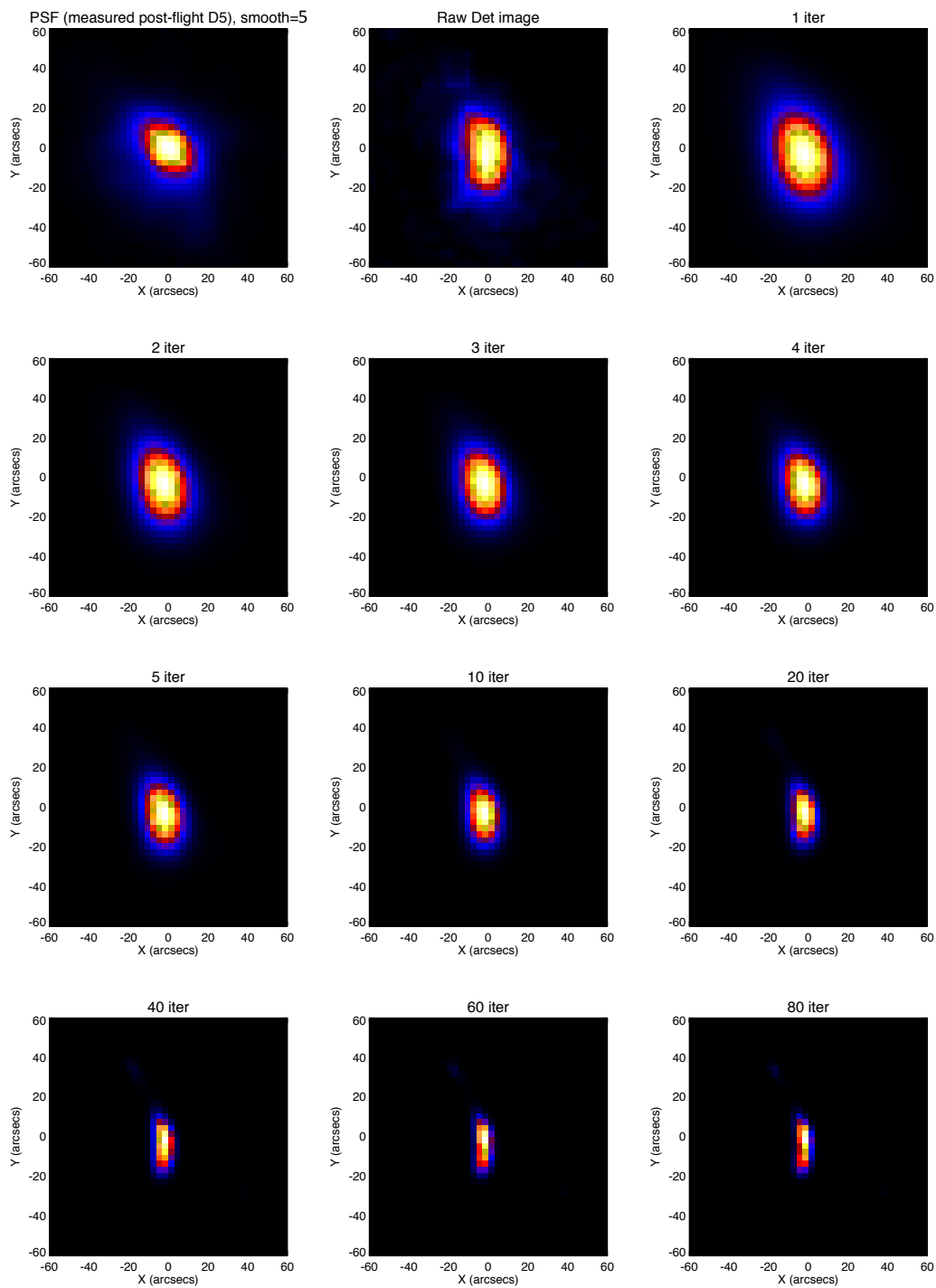


Images have been rotated (using `rot_map`) according to their geometrical placement. X-Y scale is arbitrary in these plots.

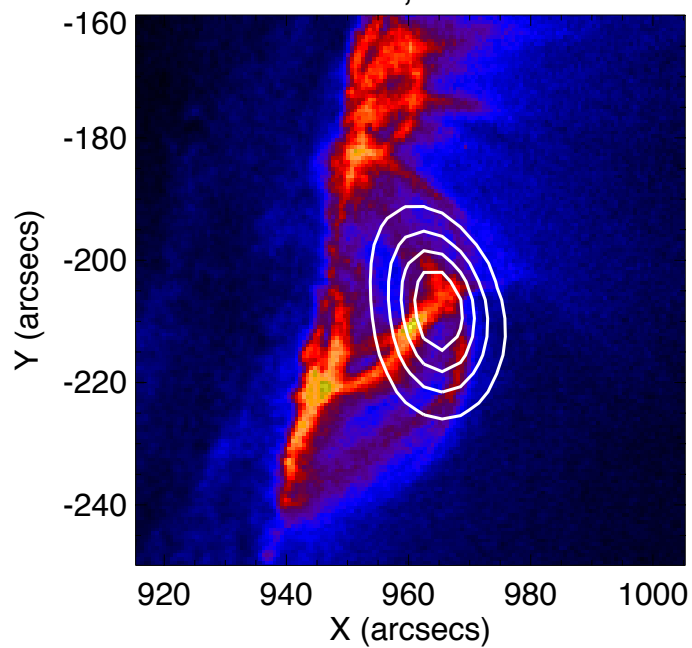
Image deconvolution

- Same as before, using IDL procedure
max_likelihood, raw_img, psf, deconv_img

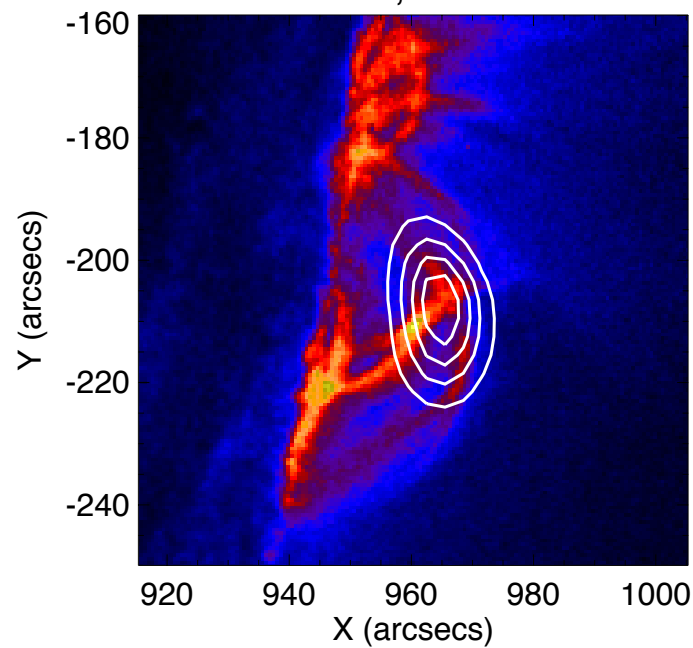
Det 6



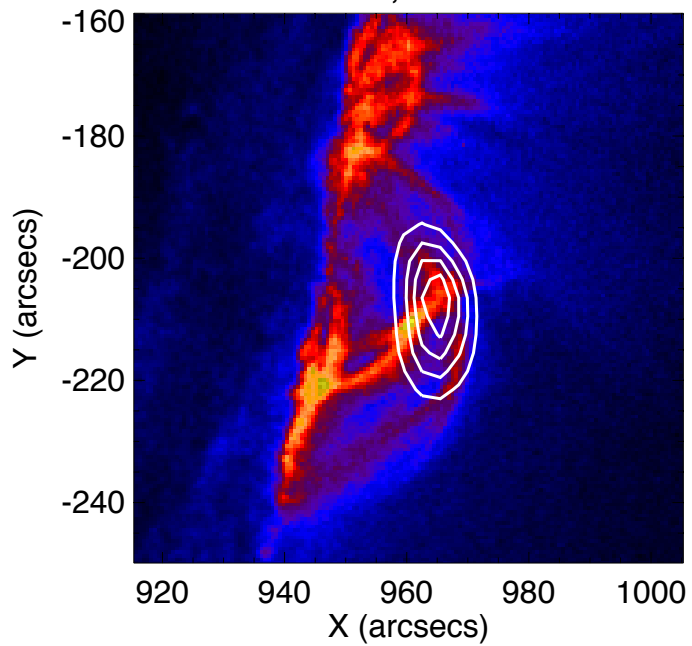
Det 6, 5 iter



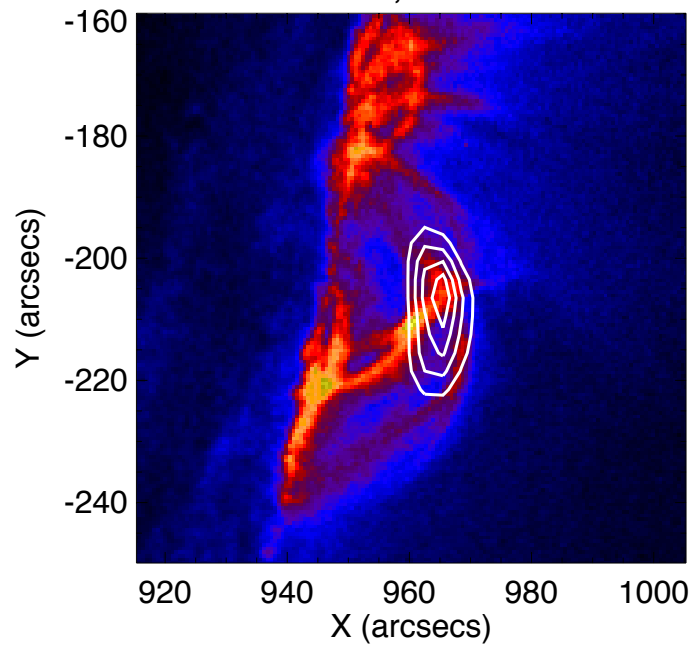
Det 6, 10 iter



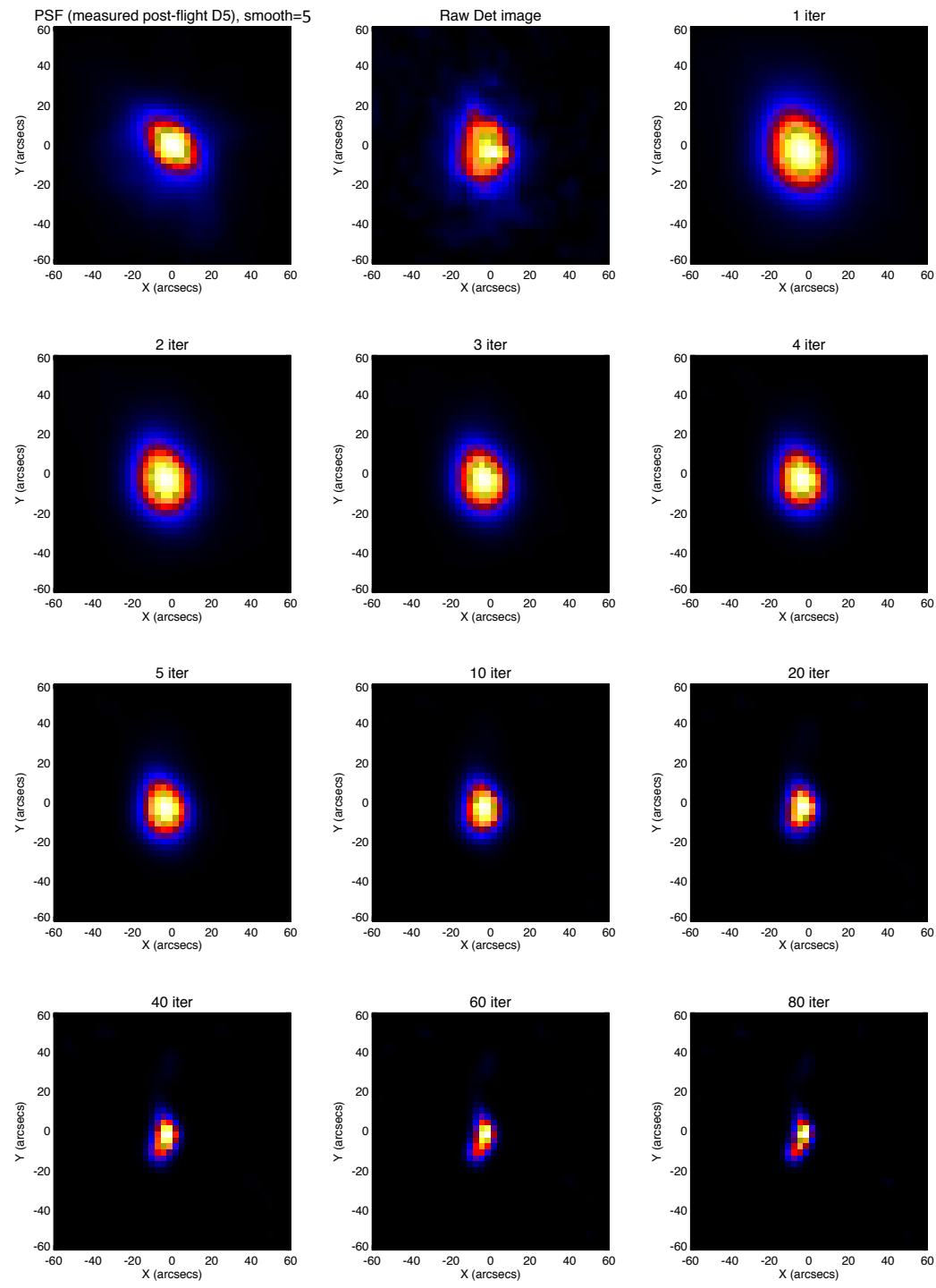
Det 6, 20 iter



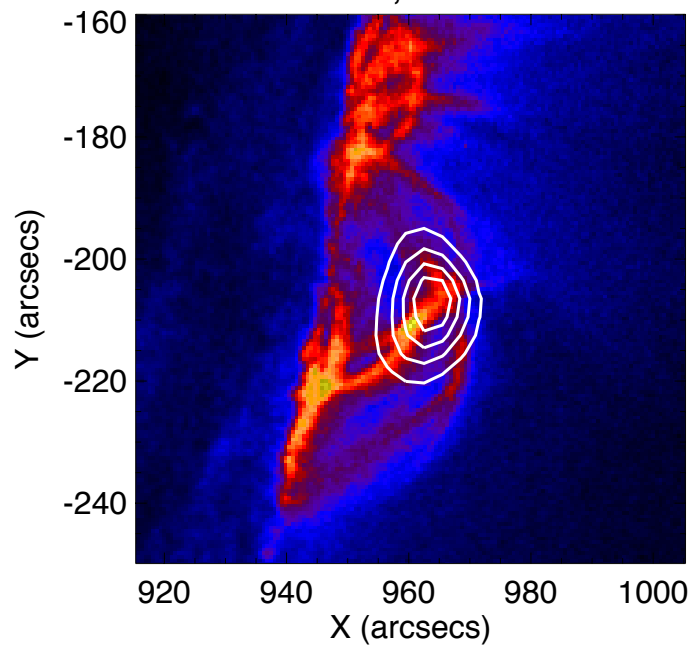
Det 6, 40 iter



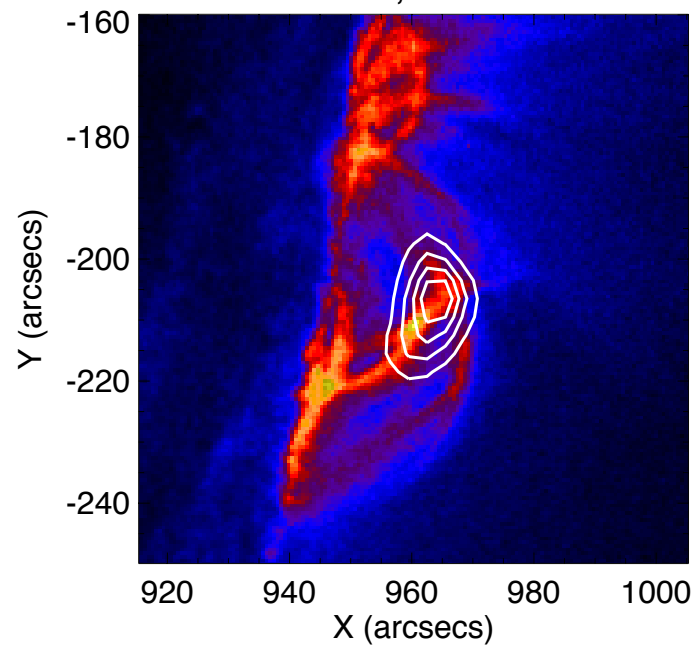
Det 4



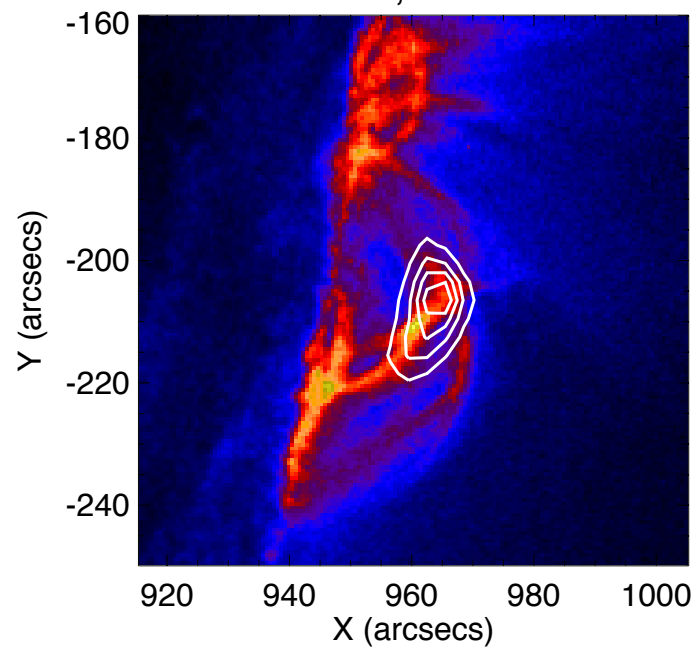
Det 4, 20 iter



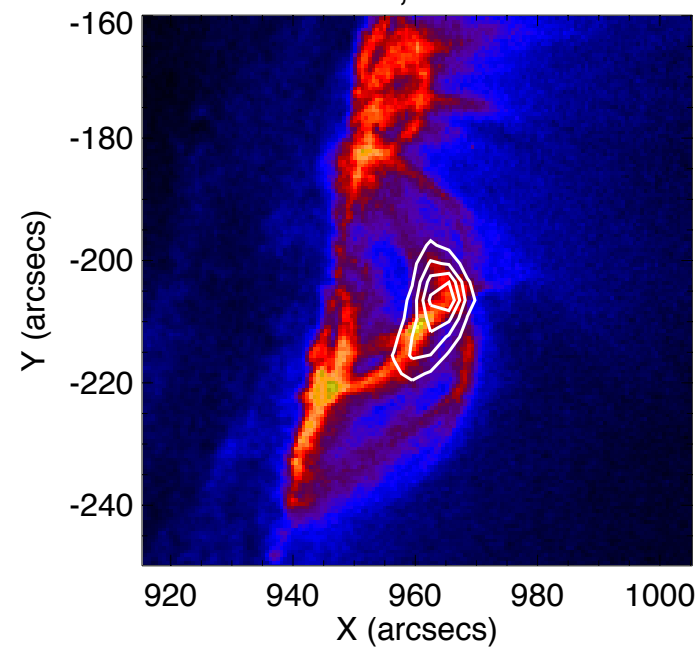
Det 4, 40 iter



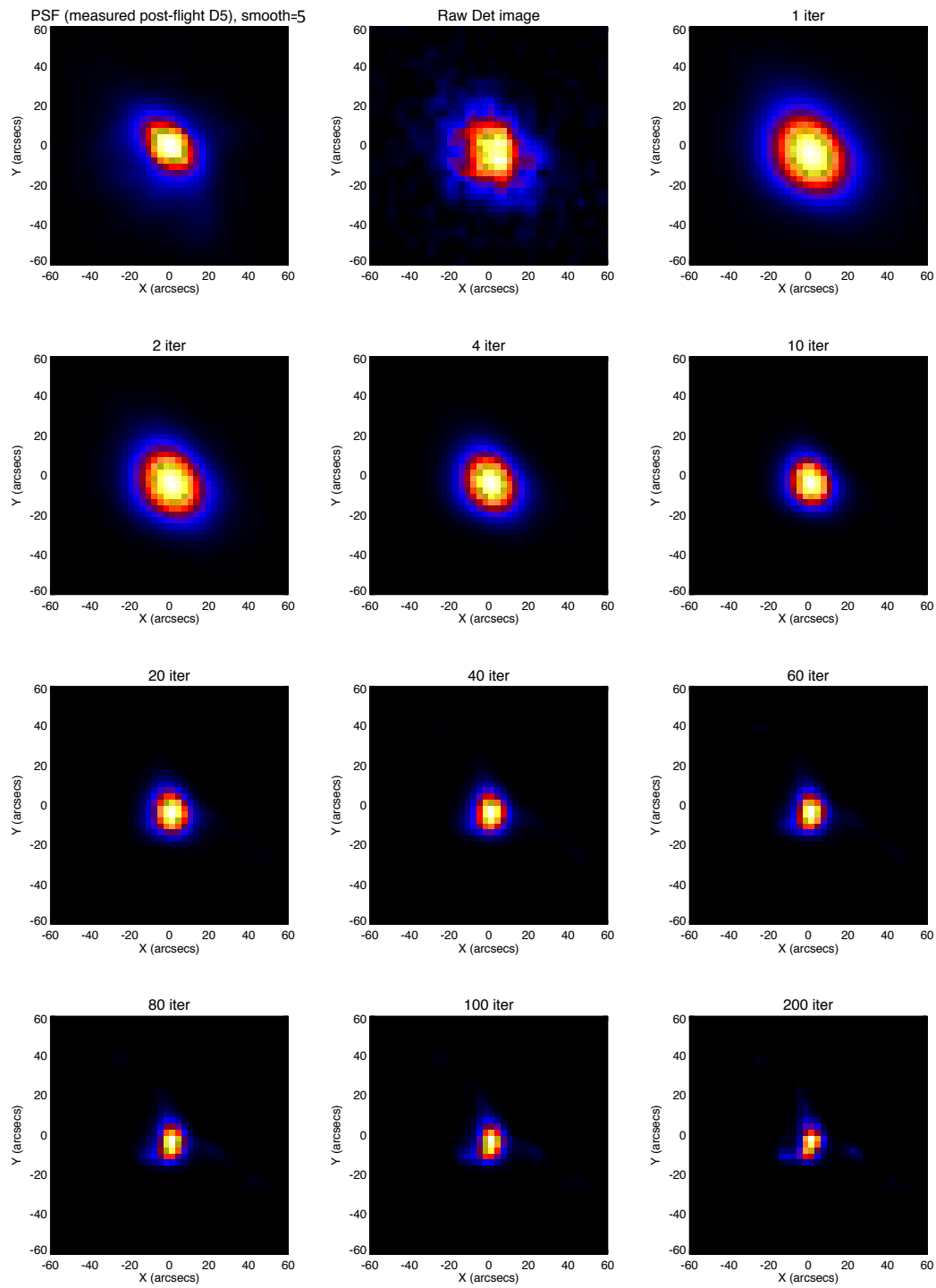
Det 4, 60 iter



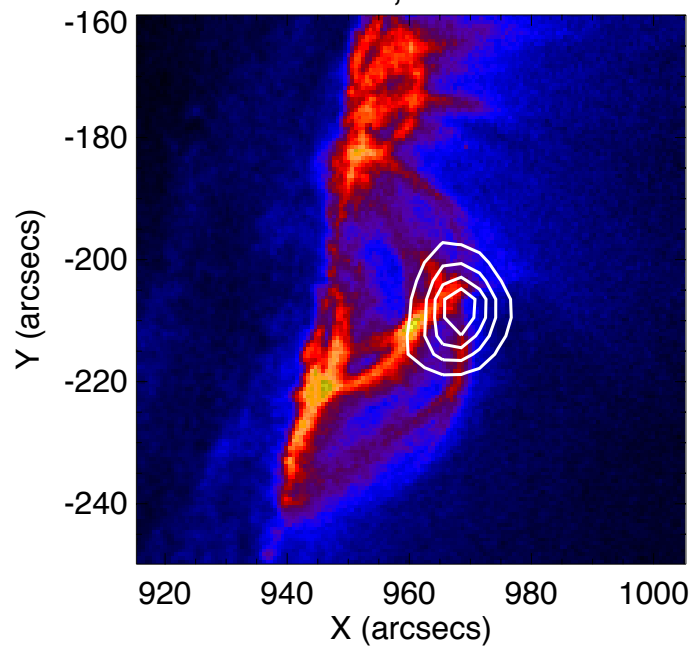
Det 4, 80 iter



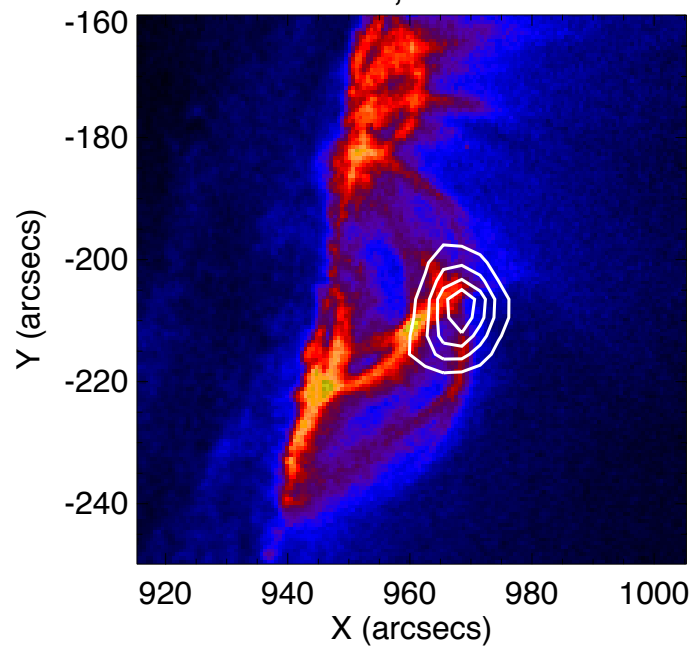
Det 5



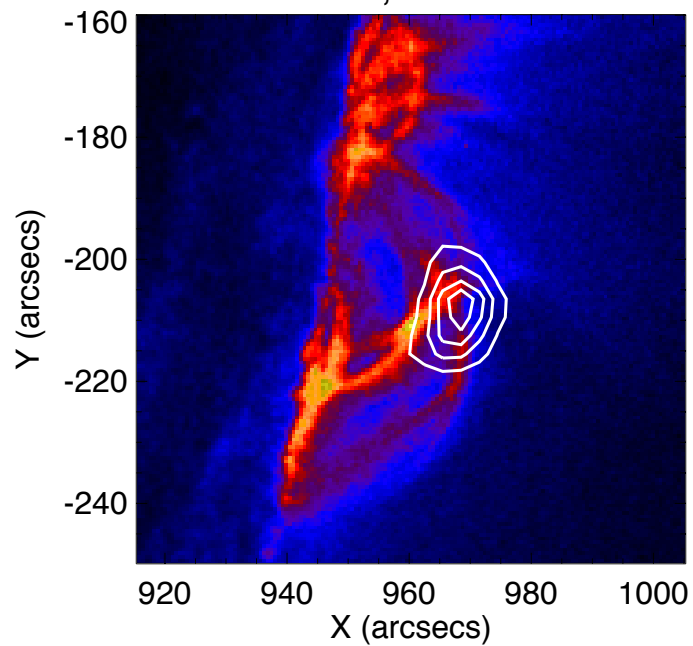
Det 5, 60 iter



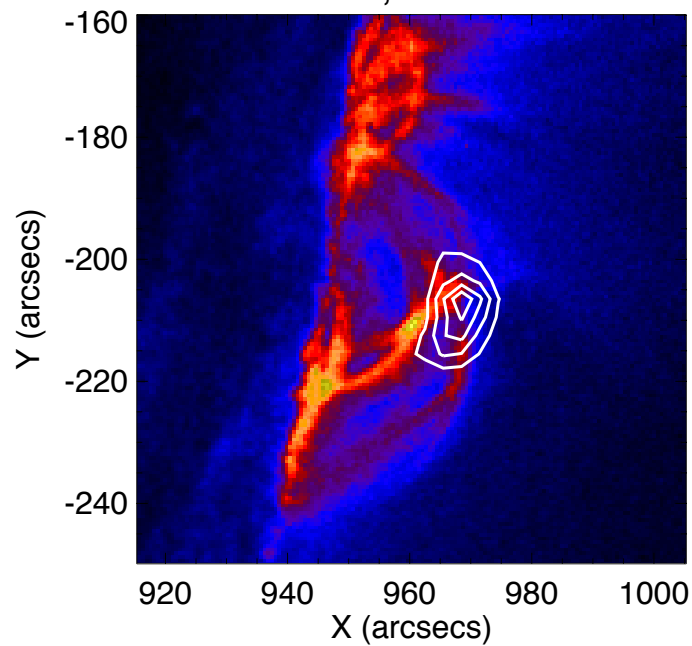
Det 5, 80 iter



Det 5, 100 iter



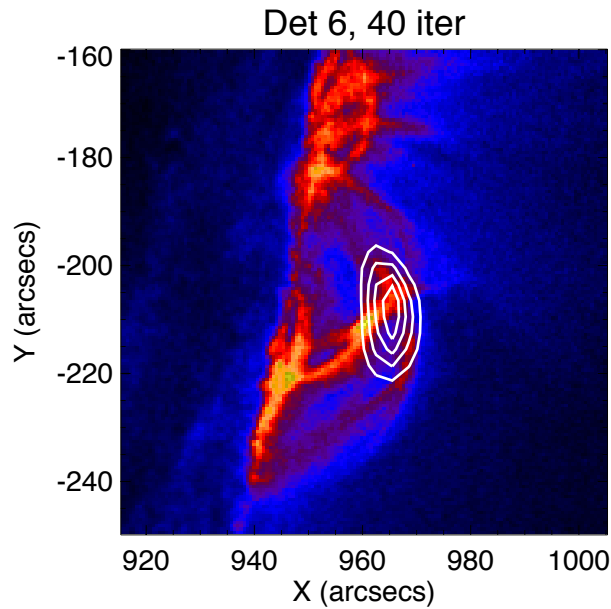
Det 5, 200 iter



Detector 6 does better with less smoothing and with a *smaller* PSF?

Smooth = 5

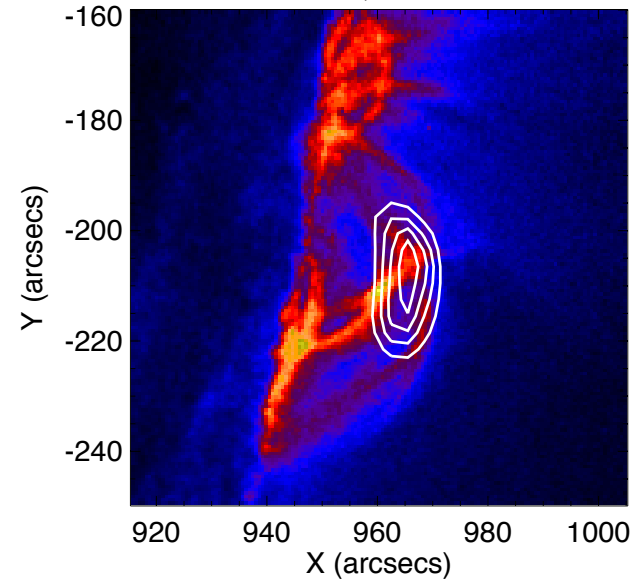
PSF plate
scale = 1.3"
("correct"
value)



Det 6, 40 iter

Smooth = 2

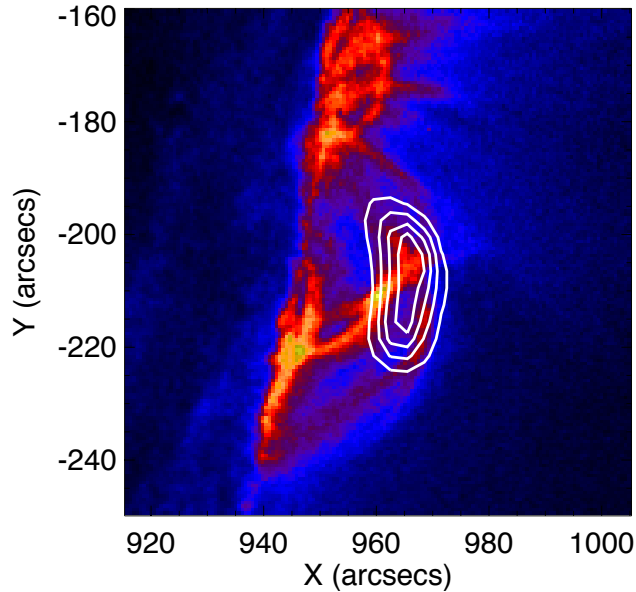
PSF plate
scale = 1.3"



Det 6, 40 iter

Smooth = 2

PSF plate
scale = 1.0"



Det 6, 40 iter

Smooth = 2

PSF plate
scale = 0.8"

