Hinode XRT and FOXSI-2

2/18/2015, Shin-nosuke Ishikawa

Hinode/XRT data summary

12:00 - 13:00, 21:00 - 22:00
DEM observation　pointing: tracking AR12230
Be_thick, Al_thick, Ti_poly, Al_mesh, Al_poly+Ti_poly, C_poly+Ti_poly,
C_poly, Be_thin, Be_med, Al_med, Al_poly
~9 minutes for one set

18:38 - 21:00
DEM observation　pointing: tracking the quiet Sun
Be_thick, Al_thick, Ti_poly, Al_mesh, Al_poly+Ti_poly, C_poly+Ti_poly,
C_poly, Be_thin, Be_med, Al_med, Al_poly
~9 minutes for one set

18:23 - 18:38
Multifilter synoptic　pointing: disk center
Al_mesh, Ti_poly, Be_thin, Al_poly, Al_poly+Ti_poly, Al_med, Be_thick

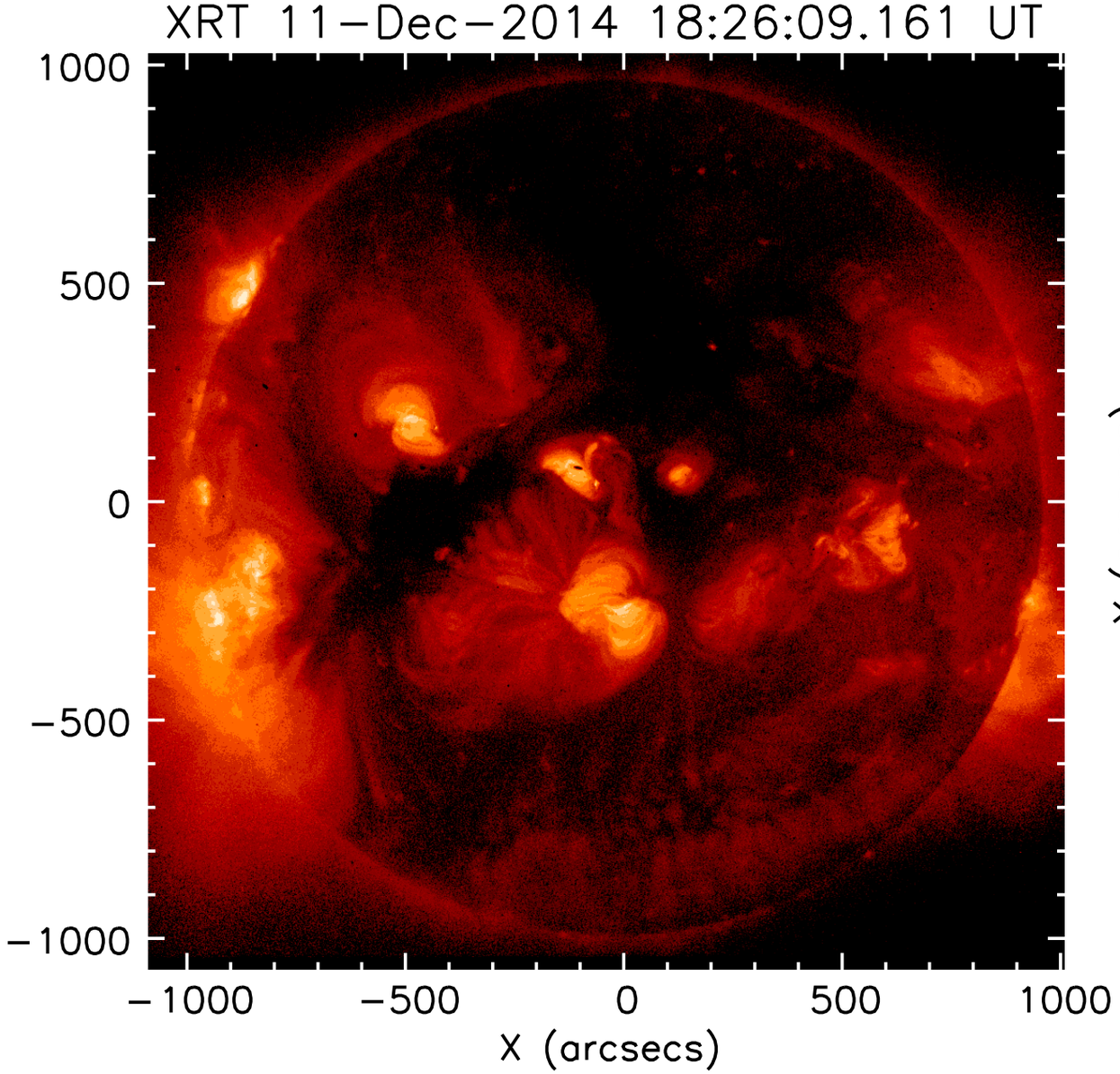
XRT data usage example

```
IDL> filename='XRT20141211_182604.1.fits'
IDL> read_xrt, filename, index, data
IDL> xrt_prep, index, data, index_out, data_out
IDL> map = make_map( data_out, dx=index_out.xscale, dy=index_out.yscale, $
     xcen=index_out.xcen, ycen=index_out.ycen, time=index_out.date_obs, $
     id='XRT' )
IDL> plot_map, map, /log
```

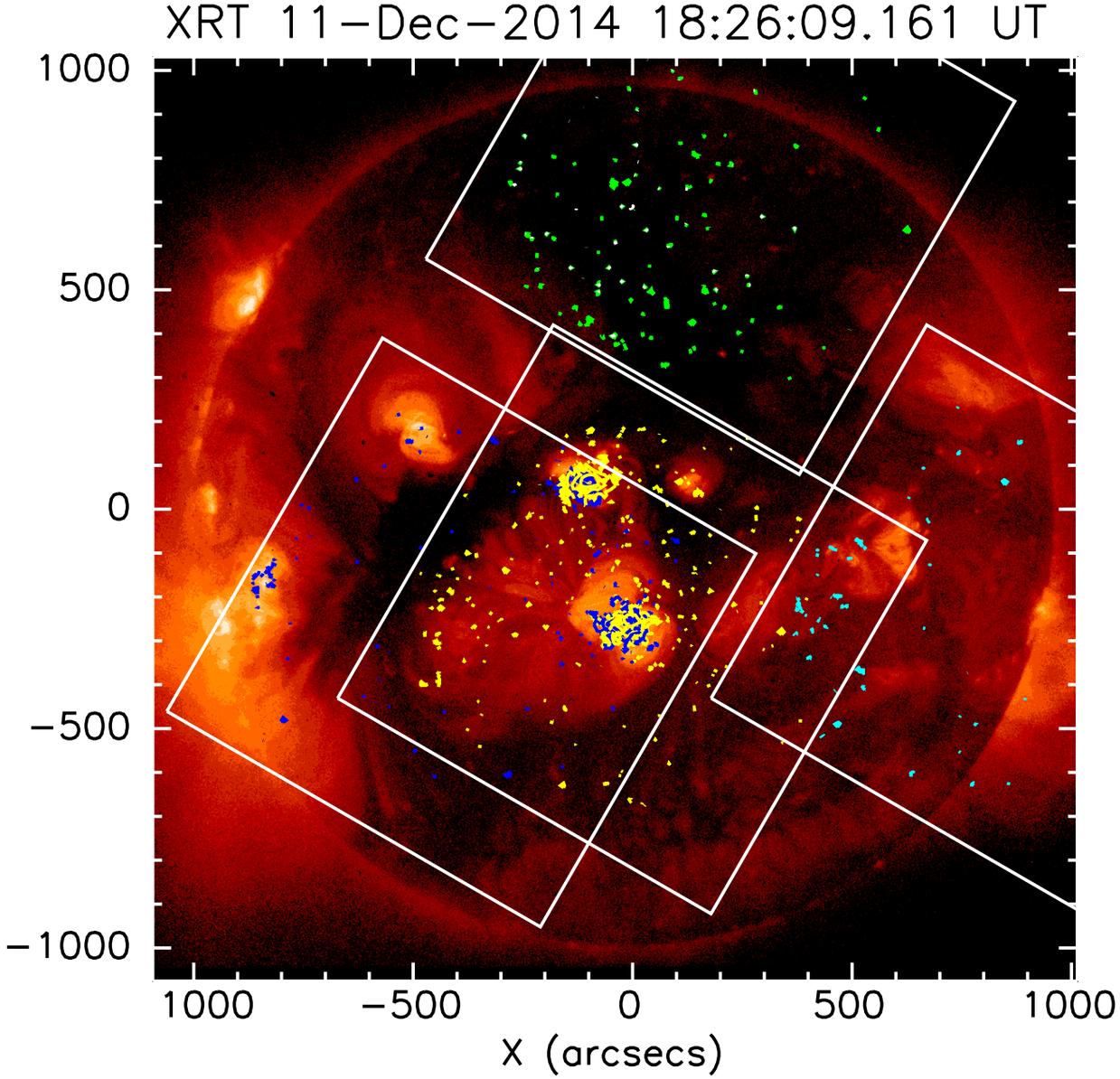
Further instructions can be found in the XRT analysis guide
http://xrt.cfa.harvard.edu/resources/documents/XAG/XAG.pdf

Counts from 4 targets (D6, after adjustment only)

XRT Al mesh, medium exposure

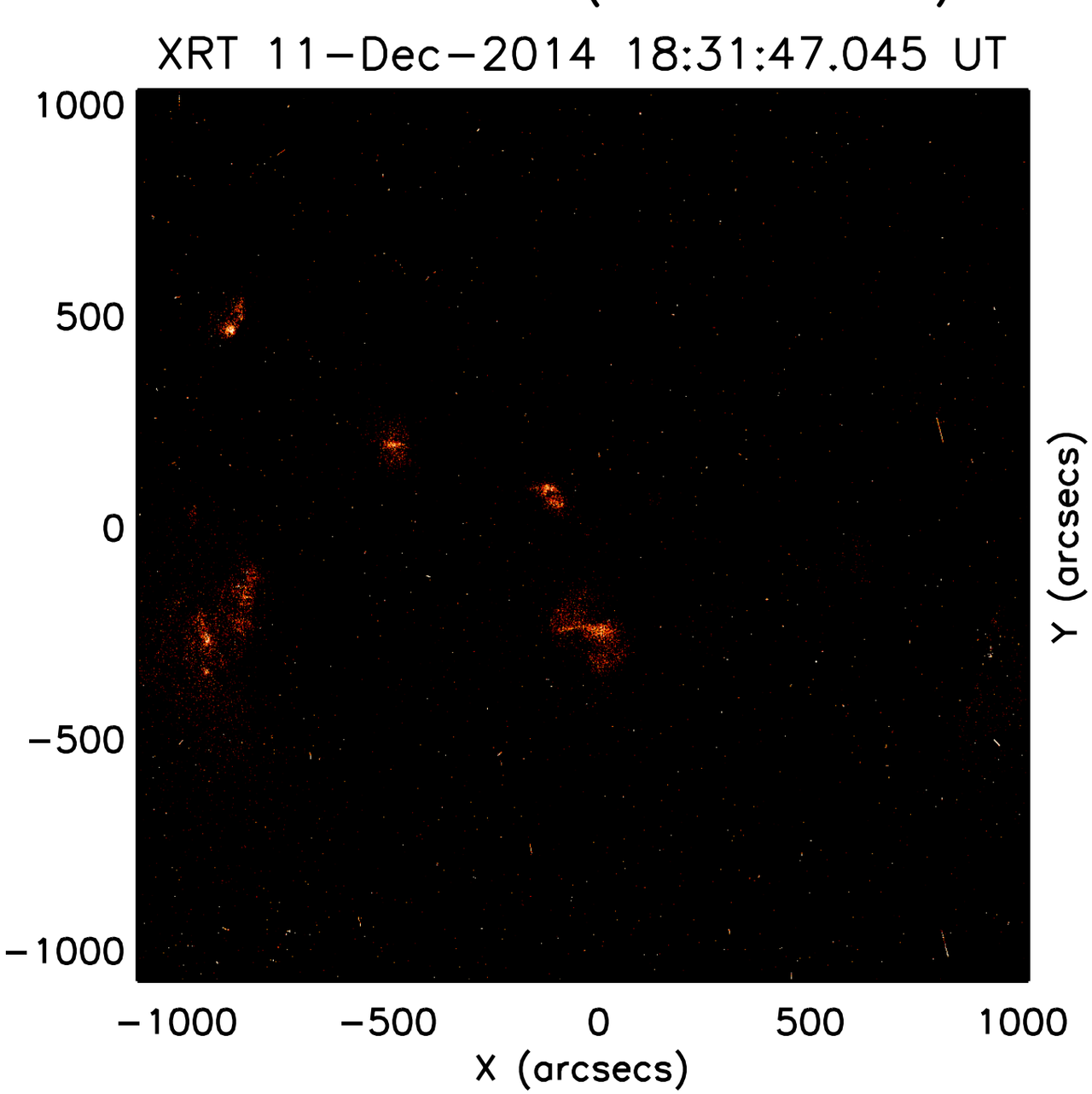


+FOXSI D6

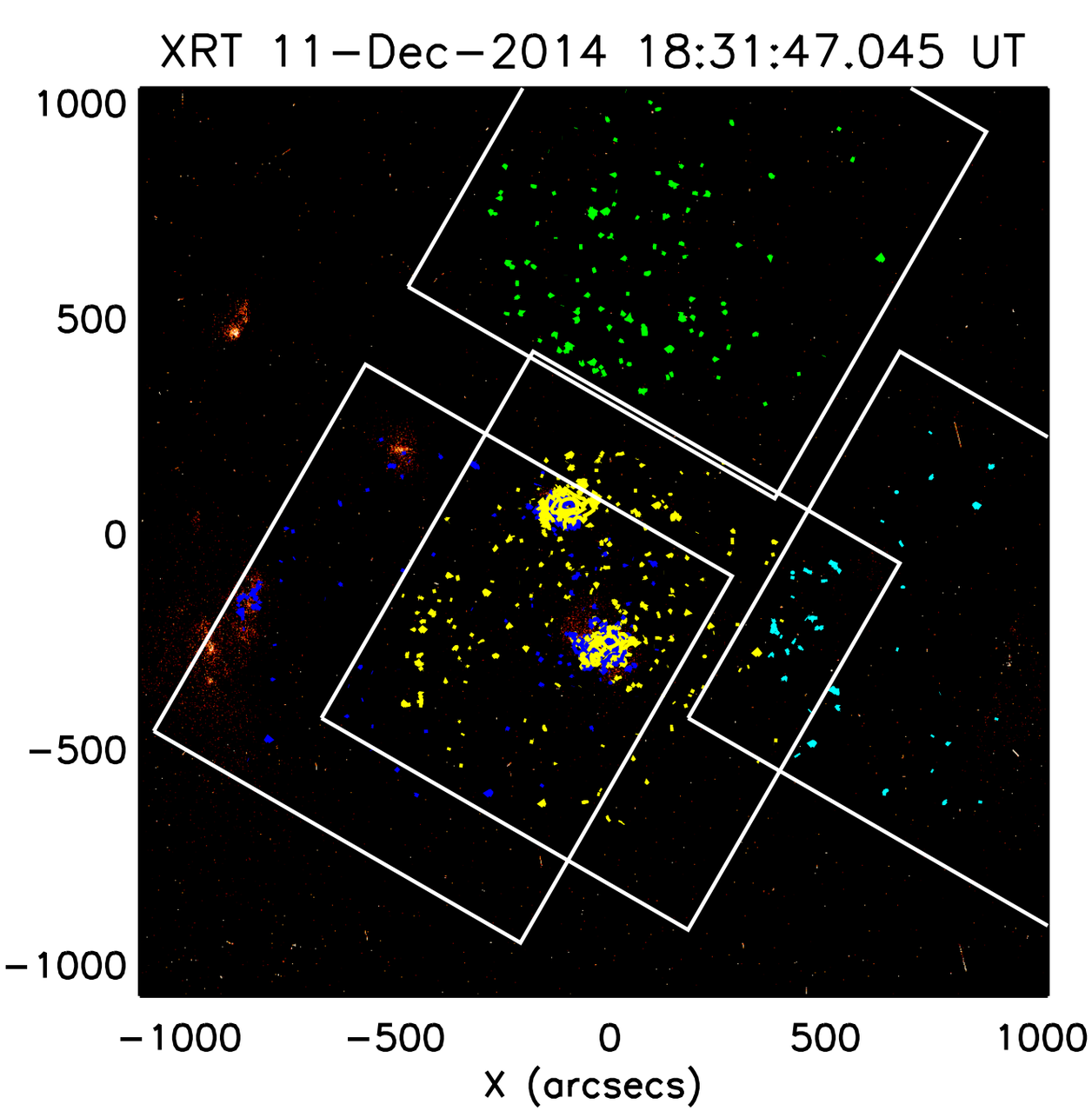


Counts from 4 targets (D6, after adjustment only)

XRT Be thick (thickest filter)

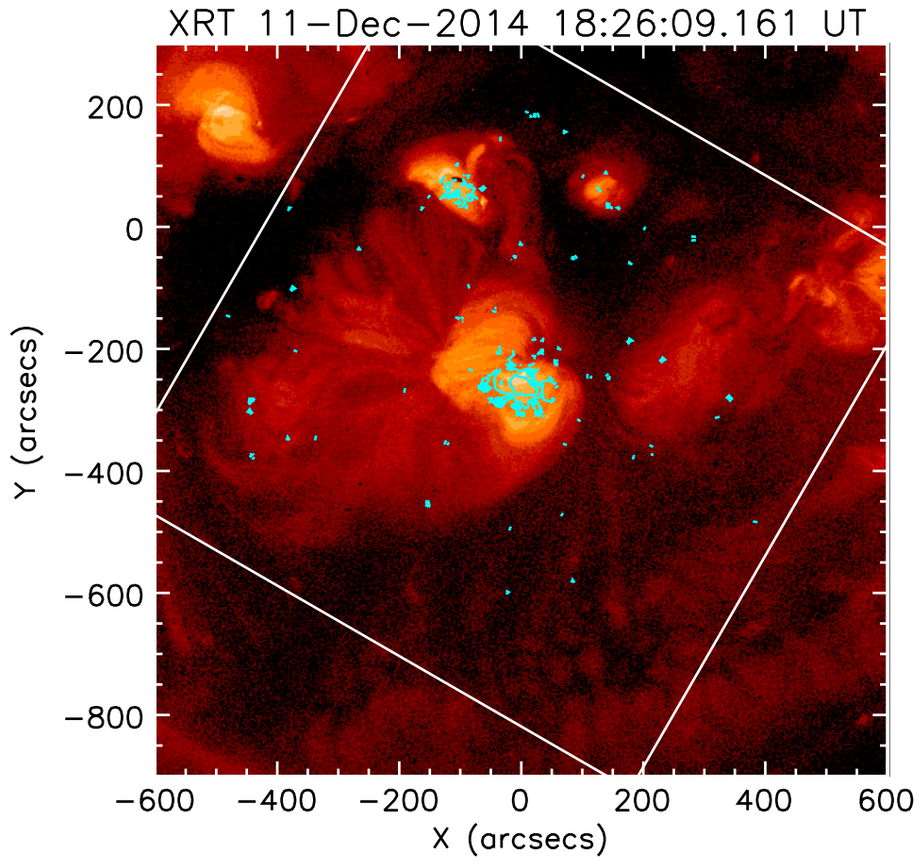


+FOXSI D6

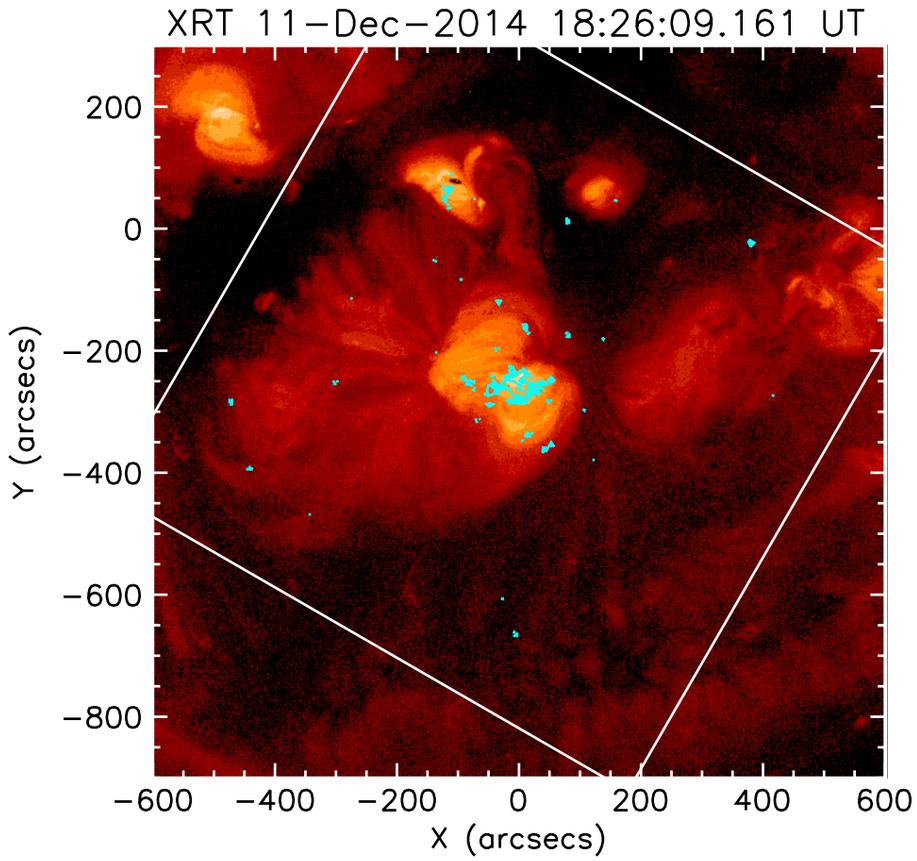


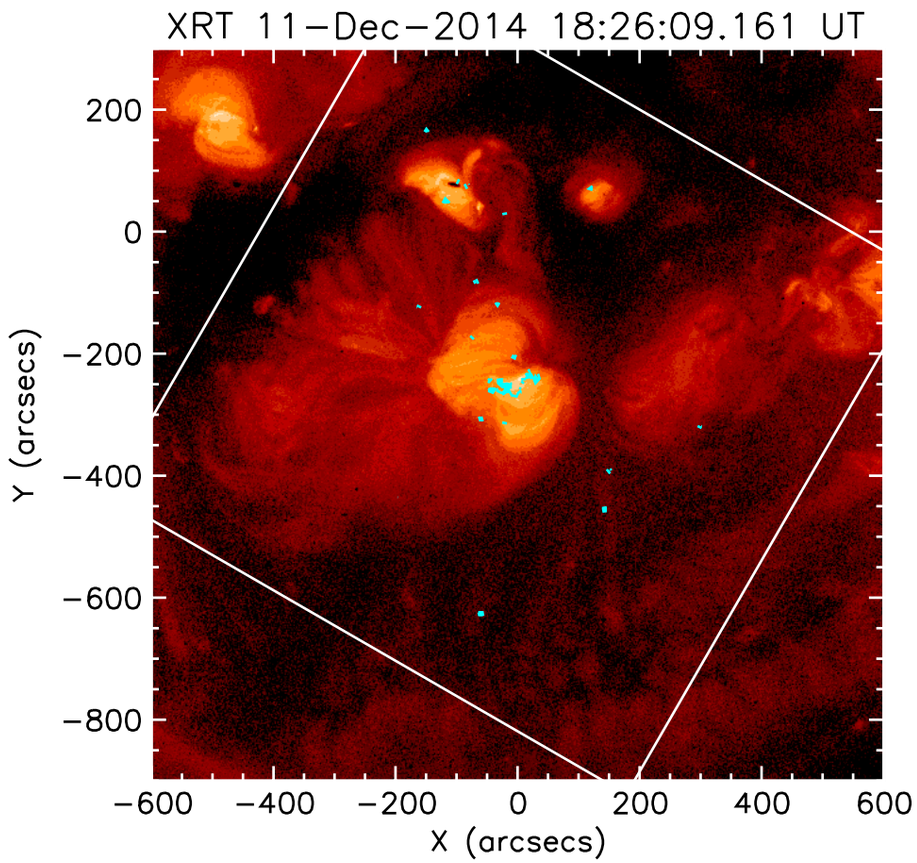
Imaging Spectroscopy (D6, Target #1, position 2)

4-6 keV



6-8 keV

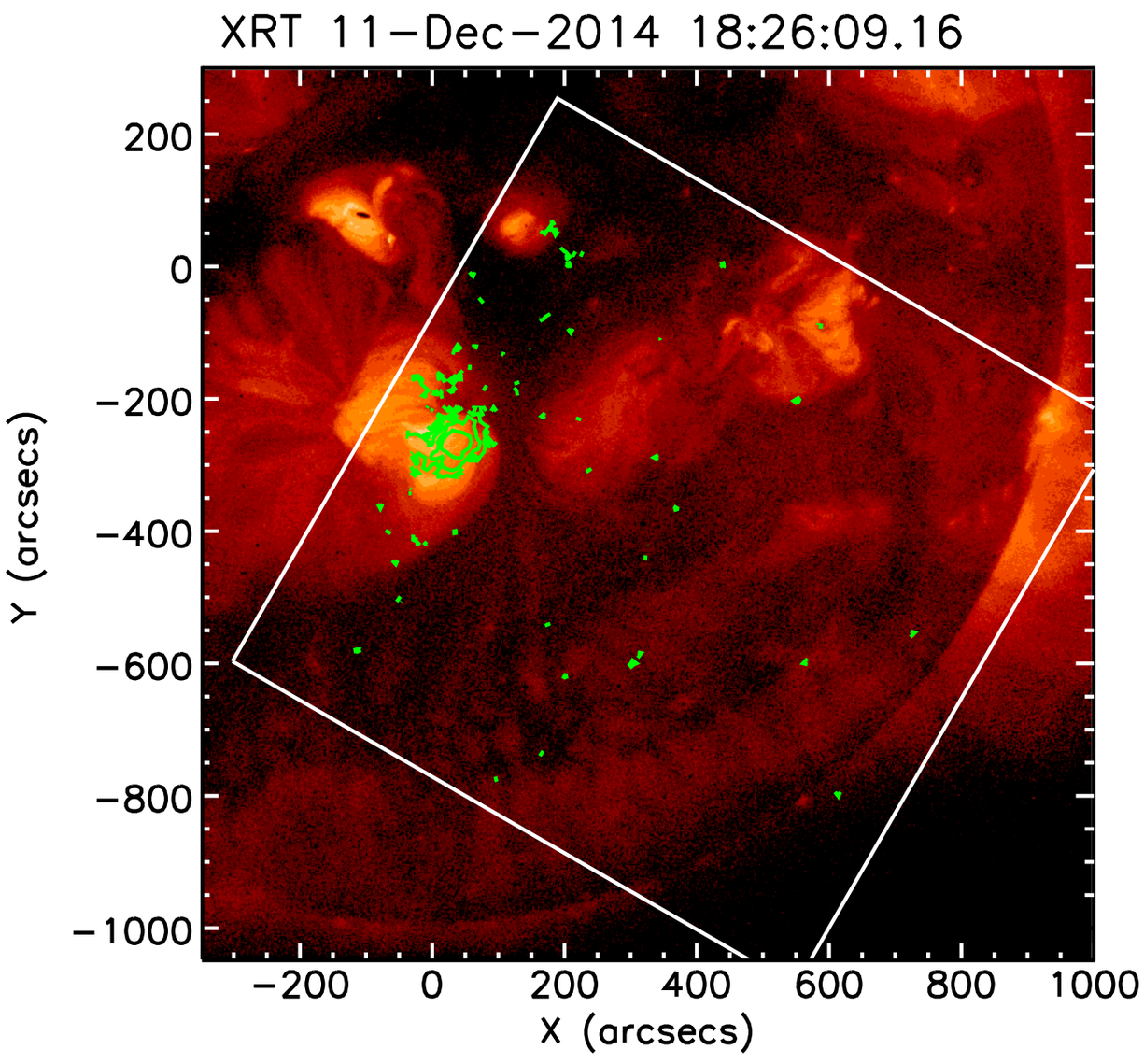




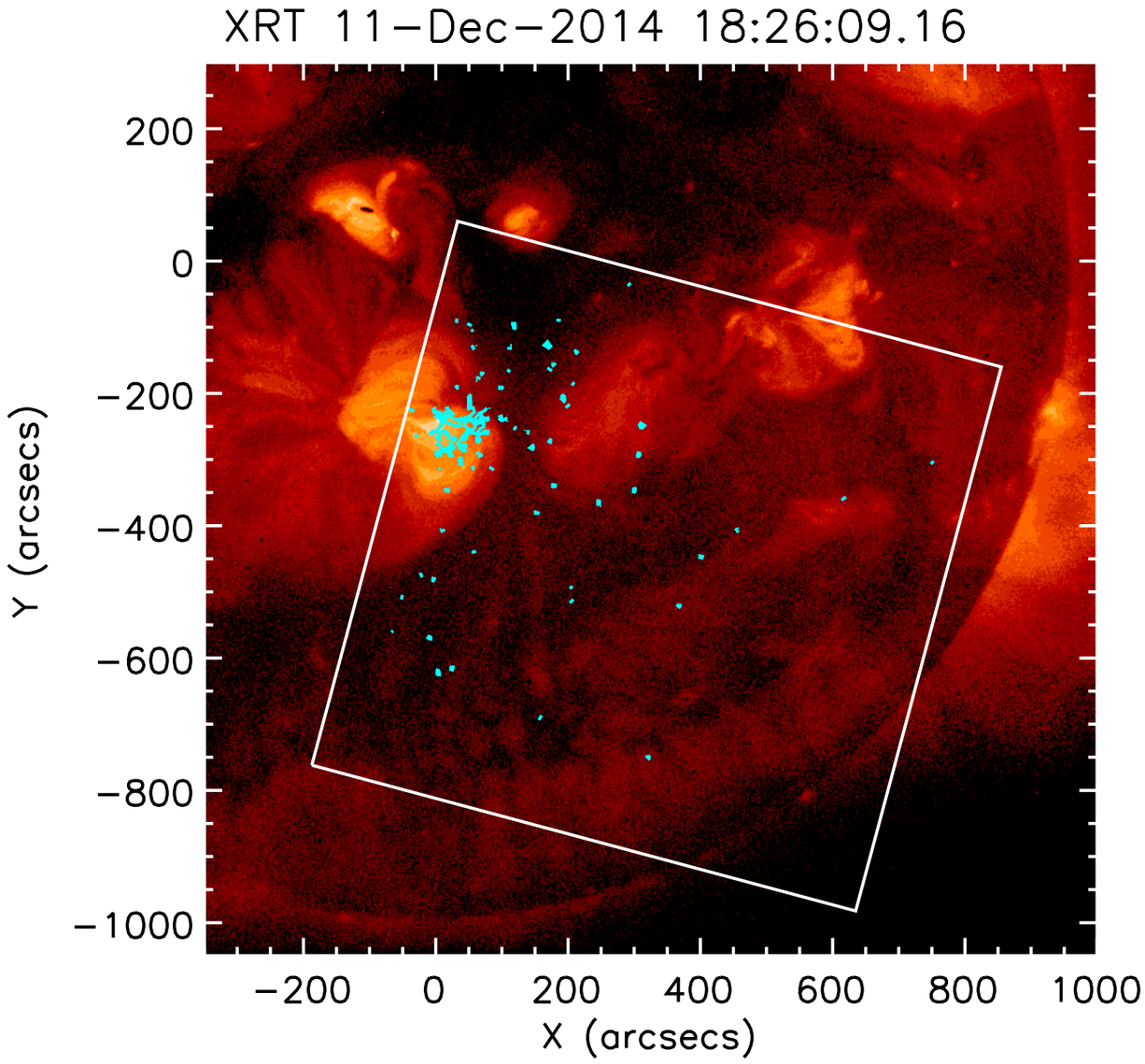
8-15 keV

Si vs CdTe Target #1, Position 0

D6 (Si)

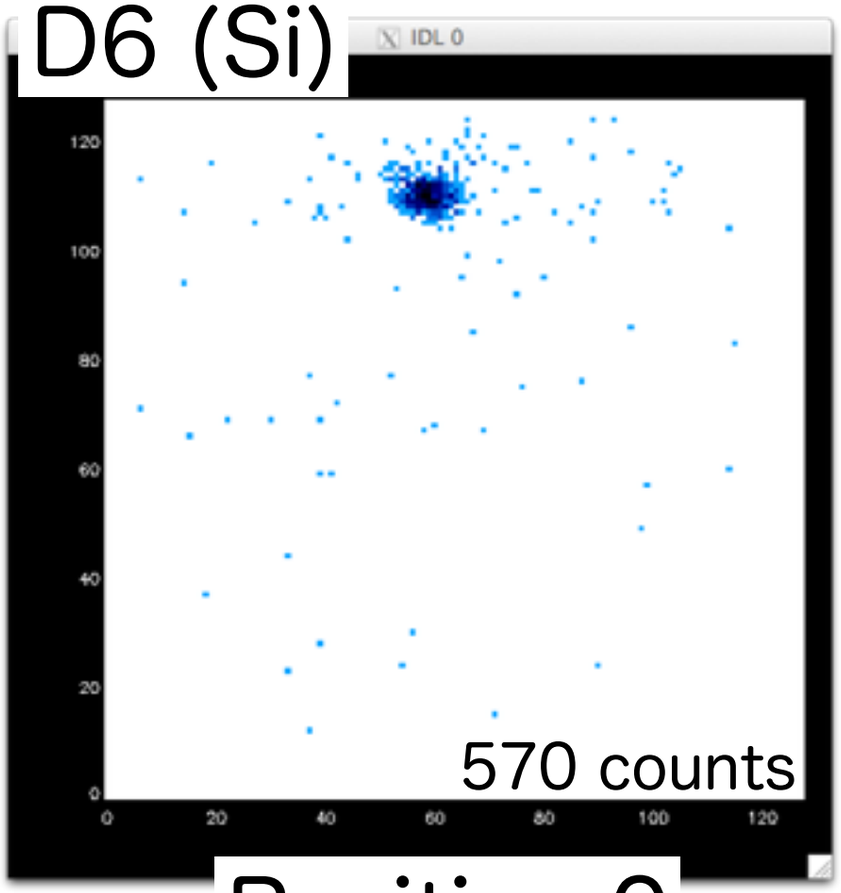


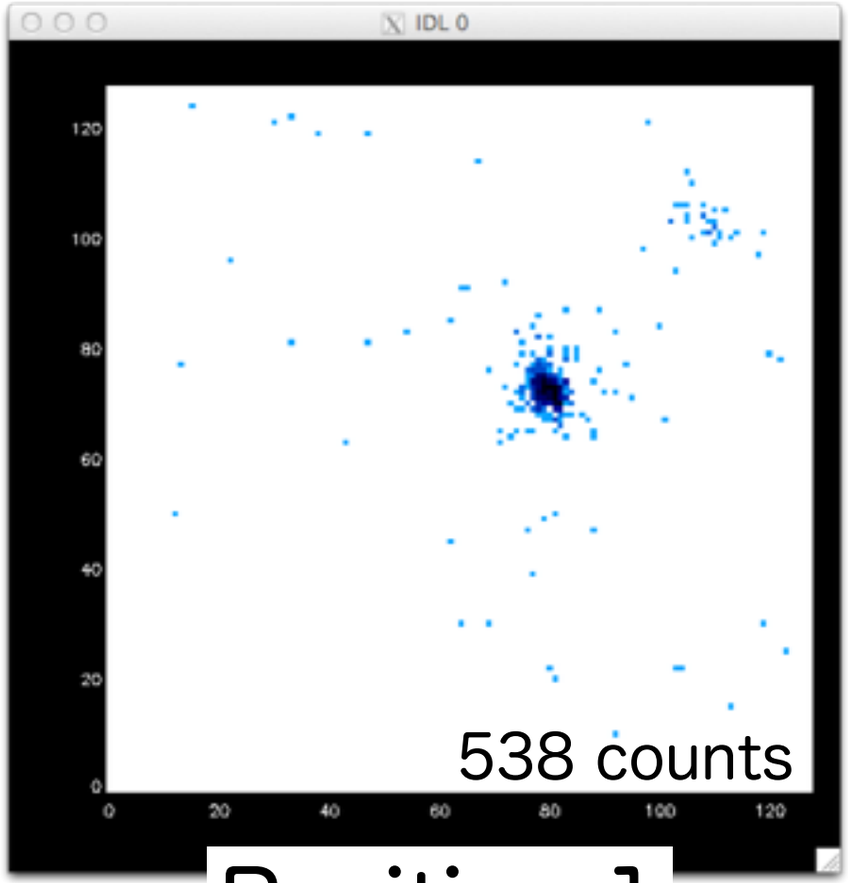
D3 (CdTe)

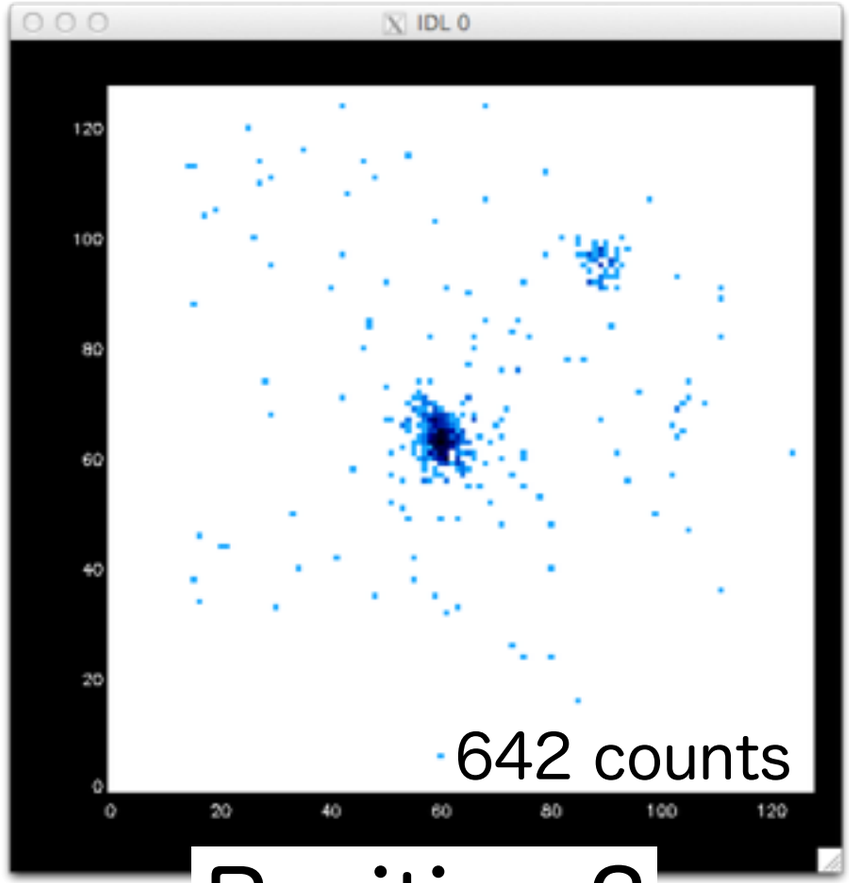


Si vs CdTe at target 1

D6 (Si)







Position 0

Position 1

Position 2

D3 (CdTe)