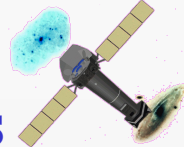


MOS1 CCD1 Hot Column

Tony Abbey – University of Leicester



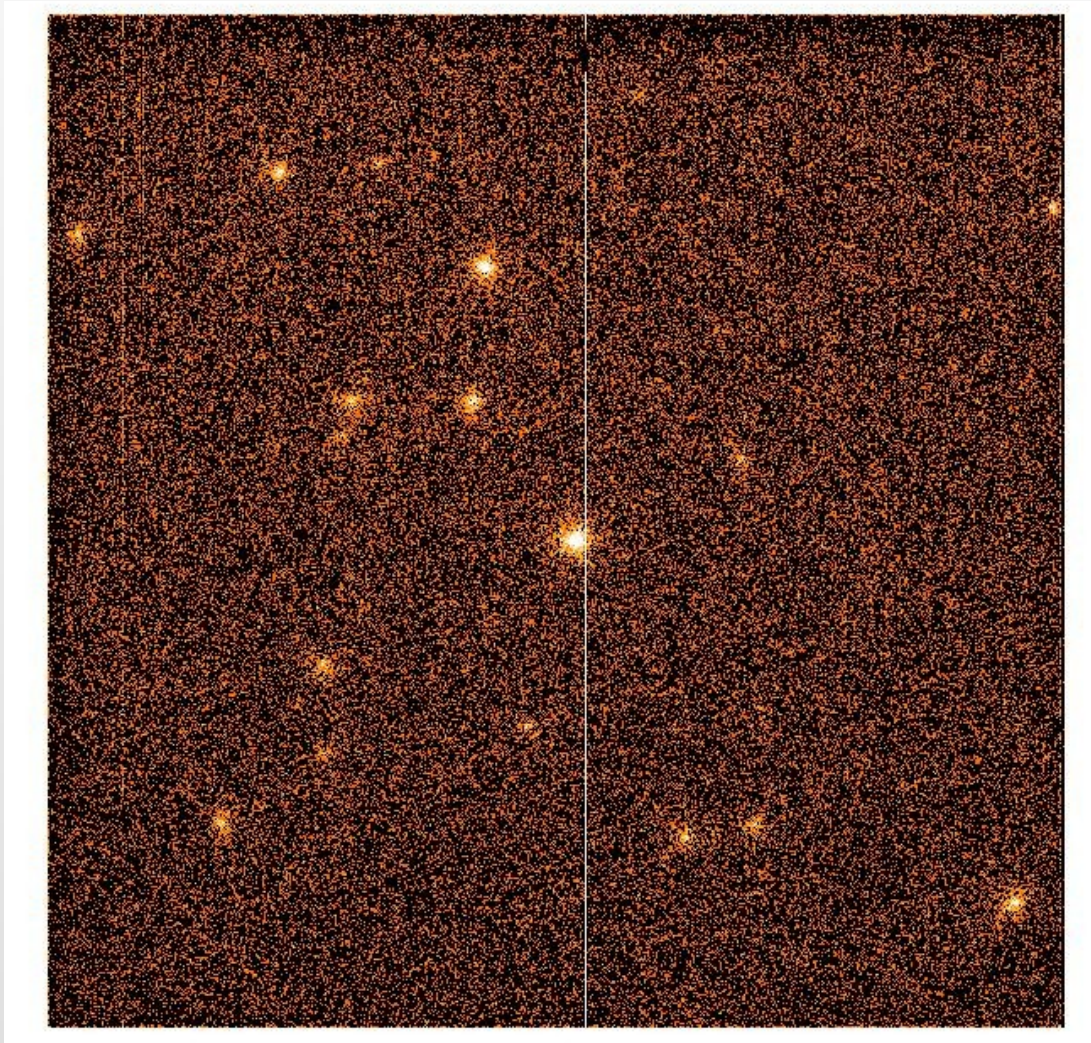
XMM was launched on 10 December 1999 into a highly elliptical orbit and each revolution takes 2 days.

Rev 107 – 17 July 2000 – MOS2 – patch of hot pixels on 3 CCDs
- questionable whether was due to large proton flare prior to Filter Wheel closing

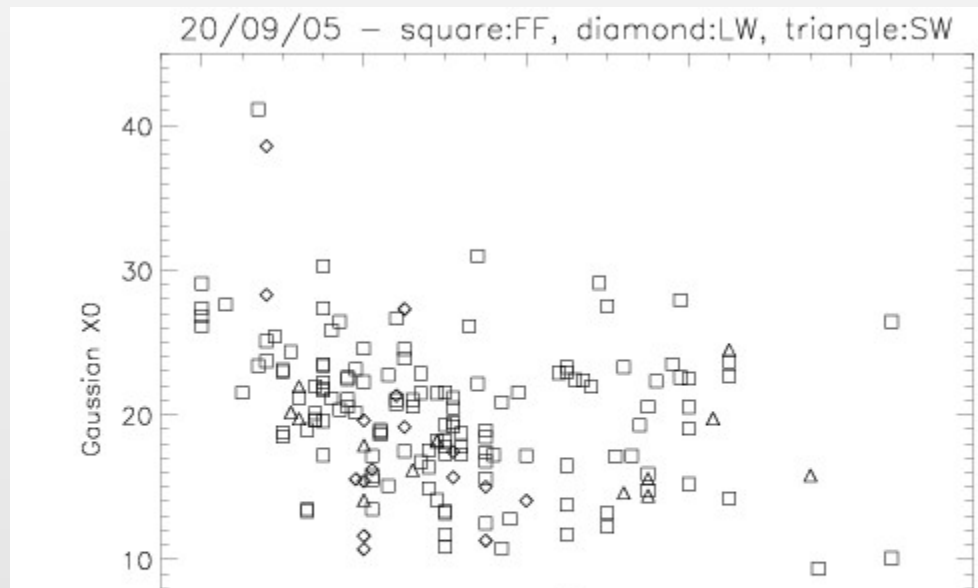
Rev 156 – 15 Oct 2000– PN – several hot pixels suddenly appear

Rev 325 – 17 Sept 2001 – MOS1 – bright flash seen, many new hot pixels

Rev 961 – 9 March 2005 – MOS1 – bright flash seen, bright column developed on central CCD, total loss of CCD6



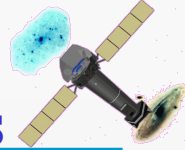
The new hot column (X=324) unfortunately passes very near to the centre of CCD1. Over a period of a few weeks it appeared to be fading to below threshold, but the next slide shows it is quite variable but with perhaps a slow decline.



flight/colev/orbits/0960/0204

1.4

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Conclusions

No real need to set column 324 as bad because an offset table change can suppress it

Set offset for column 324 as appropriate – 123 ADU ?

This was done on rev 1044 ?

Review level of column 324 at 3 month intervals and adjust as necessary