

# Regular update of the XIS NXB database on December 1, 2011

December 1, 2011 XIS team

The following XIS NXB database files are updated.

ae\_xi[0,3]\_nxbscion\_20111201.fits

ae\_xi1\_nxbscion\_20110602.fits

ae\_xi1\_nxbsci6\_20111201.fits

ae\_xi[0,1,3]\_nxbvdchk\_20111201.fits

ae\_xis\_nxborbit\_20111201.fits

ae\_xis\_nxbcorhk\_20111201.fits

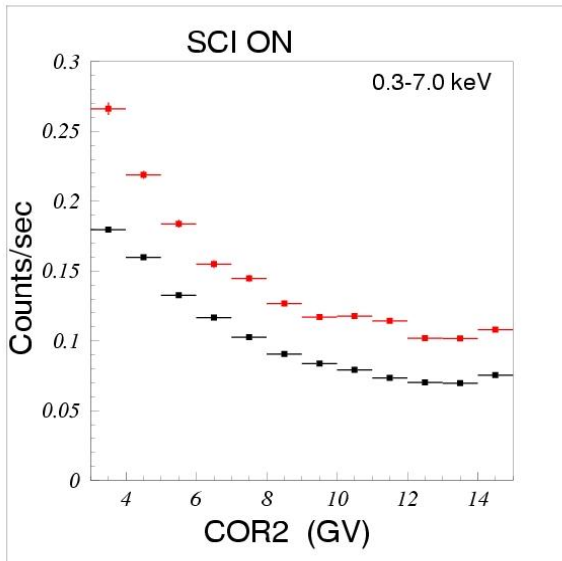
This is a regular update once every half a year. This update newly includes the NTE trend archive data obtained between May 2011 and November 2011.

The injected amount of charge for XIS1 was increased from “2keV” to “6keV” X-ray equivalent in order to improve the energy resolution. The NXB database files for the 6keV CI are newly made. The NXB count rate of the 6keV CI becomes higher than that of the 2keV CI as shown in the left figure.

To produce an XIS1 NXB spectrum for the 6 keV CI (taken after June 1 2011), users are required to specify an appropriate CALDB file manually as follows;

```
% xisnxbgen nxbevent= ae_xi1_nxbsci6_20111201.fits
```

Otherwise the CALDB file for the 2 keV CI data would be used to make an NXB spectrum.



XIS1 NXB count rates in 0.3-7.0 keV as a function of COR in the case of the 2keV CI (black) and 6 keV CI (red).