

V&V Summary Report

L2 ASCDS Version : 10.2.1

Observation 16596 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 10 2014

See axaff16596N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.0775

Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

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For ACIS/CC-mode w/ HETG, at with no SIM-Z offset, there are no MEG even order counts. MEG even orders overlap with HEG orders in energy, but MEG even order efficiencies are very low. Since HEG and MEG cannot be spatially separated, events are preferentially assigned to HEG. (MEG odd orders can be resolved.) For observations with a SIM-Z offset, MEG negative and MEG positive orders will be missing (off the array), and remove some of the ambiguity.

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Zeroth order position is misplaced by 0.5 pixels in the x direction, which is essentially cross-dispersion. This should make no difference in the extraction of the spectrum.

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As of November 1, 2009, events with a flight grade of 66 were added to the telemetry stream for continuous-clocking mode observations because

it was found that a significant fraction of real X-ray events have this flight grade in this mode. To prevent these events from being discarded from Level 2 event files, the CALDB grade file was modified to change the 'ASCA' grade for these events from 7 (a bad grade) to 2 (a good grade). The new grade file has been used in standard pipeline processing for code versions DS 10.3 and later (i.e. 2014 Oct 30 and later). Since the calibration products for continuous-clocking mode observations are appropriate for data that includes flight grade 66 events, data obtained on or after 2009 Nov 1, but that were processed using an earlier version of the pipeline code, should be reprocessed with CIAO using version 4.7 (i.e. 2014 December) or later. Note that it is not possible to fix the data obtained before 2009 Nov 1. Since these earlier continuous-clocking observations are not calibrated at present, spectral analyses of these data may yield inaccurate results.

seq_num	401612	Sequence number
obs_id	16596	Observation id
title	A rare opportunity to resolve the emission line complex in GRO J1744-28	Proposal title
observer	Dr Jamie Kennea	Principal investigator
object	GRO J1744-28	Source name
ra_targ	266.137917	Observer's specified target RA [deg]
dec_targ	-28.740833	Observer's specified target Dec [deg]
ra_nom	266.13397378877	Nominal RA [deg]
dec_nom	-28.753393110376	Nominal Dec [deg]
roll_nom	89.93985914885	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10077.5	Sum of GTIs [s]
livetime	10038.134765625	Livetime [s]
ontime4	10077.5	Sum of GTIs [s]
ontime5	10077.5	Sum of GTIs [s]
ontime6	10077.5	Sum of GTIs [s]
ontime7	10077.5	Sum of GTIs [s]
ontime8	10077.5	Sum of GTIs [s]
ontime9	10077.5	Sum of GTIs [s]
l2events	1337815	Number of level 2 events

