

V&V Summary Report

L2 ASCDS Version : 7.6.10

Observation 2010 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jan 21 2007

See [axaff02010N001_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.276

Comments

Comments for Obi 0:

Obi=0 was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 308:17:37. In this version of the software, a few seconds of data are inadvertently included at the end of the observation after the spacecraft and its components began to move. Therefore, the aspect solution is not entirely correct. Software will be modified to correct this situation as soon as feasible. The aspect solution can be corrected in CIAO by removing data from the end of the *asol.fits file that has a timestamp equal to or later than the above interruption time. The Level 1 event file can be recreated using CIAO and the edited *asol.fits file.

During obi=0, an ACIS Threshold-Plane Anomaly occurred. The flight s/w is intended to delay 'start events' until after 'end bias dump'. For some unknown reason, it occasionally fails to do so, and if the overlap lasts for more than a minute or so, one or more FEPs experience a firmware latch-up that renders them useless until they are power cycled. The anomaly occurred for chip S2 only. No event data were recorded for this chip; the bright pixels on this chip are due to previously known

hot pixels. The target and aim point were not affected by this anomaly.

The star in slot 4 was dropped from the aspect solution due to poor data quality; it was tracked for only 94% of the observation in obi=0. The aspect solution is not expected to be degraded by removing one star from the solution.

seq_num	500187
obs_id	2010
title	LET US EXAMINE SOME NEW ISOLATED NEUTRON STARS WITH CHANDRA
observer	Hakk Ogelman
object	PSR0628-28
dtcycle	0
cycle	P
ra_targ	97.70625
dec_targ	-28.578778
ra_nom	97.713367754779
dec_nom	-28.57141381323
roll_nom	59.65309118106
revision	3
ontime	19271.999895573
livetime	18578.840255495
ontime2	18169.202314466
ontime3	18340.931104124
ontime5	19271.999895573
ontime6	18495.659246072
ontime7	19271.999895573
ontime8	18502.586190313
l2events	124437

