

V&V Summary Report

L2 ASCDS Version : 8.3.4

Observation 400 - L2 Version 7
Chandra X-Ray Center

L2 Processing Date : Jul 7 2011

See axaff00400N004_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2011.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.531

Comments

WARNING: Number of OBCENG gradient values is less than the smoothing window size.

Periscope correction gradient data will not be smoothed.===

The issue of not smoothing the OBC periscope gradient data for short observations is not critical and can be handled by the DS8.4.1 patch. The

consequence of this will be that some short (< ~5 ksec) observations will

show a discrete 0.04 arcsec jump in the aspect solution DY / DZ values when the corresponding periscope gradient telemetry makes a one-bit shift.

There are very few types of observation where this could be detected in

X-ray data, perhaps an HRC observation of a very bright source.

Reprocessing post-8.4.1 would correct the issue.

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The guide star in slot 7 for obi=2 was removed from the aspect solution due

to poor data quality. Different guide stars were used for obi=1 and obi=2.

Obi=1 uses all five guide stars in the aspect solution while obi=2 uses

four stars.

seq_num	700072	Sequence number
obs_id	400	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 4321	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	185.728333	Observer's specified target RA
dec_targ	15.822222	Observer's specified target Dec
ra_nom	185.75010435296	Nominal RA
dec_nom	15.843362878831	Nominal Dec
roll_nom	49.270327560318	Nominal Roll
revision	7	Processing version of data
ontime	2529.5920813233	Sum of GTIs [s]
livetime	2497.5608632521	Livetime [s]
ontime2	2529.5100013167	Sum of GTIs [s]
ontime3	2529.3458413184	Sum of GTIs [s]
ontime6	2529.427921325	Sum of GTIs [s]
ontime7	2529.5920813233	Sum of GTIs [s]
ontime8	2529.2637613267	Sum of GTIs [s]
l2events	70528	Number of level 2 events

