

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3463 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 8 2012

See axaff03463N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.477

Comments

Observation cut short due to high radiation. S1 looks clean and could be used for background for S3. Background increases significantly about 6500s into the observation. The source events on S3 look reasonable (aspect corrected); note that the source dithers across a node boundary, which will introduce spurious periodic features into the light curve. Chip S4 has elevated 'streaking' with dropped frames.

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This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 13:54 on March 18, 2002 GMT. Due to a high radiation environment, the instruments were safed and the observation terminated early. This observation has been reprocessed so that the aspect solution correctly handles the instrument safing and maneuver activities at the end of the observation.

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The high count rate resulted in telemetry saturation and a large number of dropped exposures. The telemetry saturation occurs primarily during the high radiation time near the end of the observation. The ONTIME value reflects the lost exposure time.

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Charge time for this ObsId remains at original value of 8.477 ksec,

although with the current processing the charge time would have been 7.468 ksec.

Variation in Chips > 15% threshold.

Low Chip 8, ONTIME=5493.850839 seconds

High Chip 7, ONTIME=7468.037951 seconds

Chip 8, ONTIME=5493.850839 seconds is less than 80% of scheduled time=15000.000000 seconds

Chip 7, ONTIME=7468.037951 seconds is less than 80% of scheduled time=15000.000000 seconds

Chip 6, ONTIME=7119.297485 seconds is less than 80% of scheduled time=15000.000000 seconds

Chip 5, ONTIME=7454.895961 seconds is less than 80% of scheduled time=15000.000000 seconds

Chip 3, ONTIME=7249.194346 seconds is less than 80% of scheduled time=15000.000000 seconds

Chip 2, ONTIME=7230.168931 seconds is less than 80% of scheduled time=15000.000000 seconds

ONTIME of 7468.0379508436 seconds is less than 85% of expected scheduled time of 15000 seconds

seq_num	400238	Sequence number
obs_id	3463	Observation id
title	A FAINT NEUTRON STAR SOFT X-RAY TRANSIENT RETURNING TO QUIESCENCE	
observer	dr Peter Jonker	Principal investigator
object	RX J170930.2-263927	Source name
ra_targ	257.375833	Observer's specified target RA [deg]
dec_targ	-26.6575	Observer's specified target Dec [deg]
ra_nom	257.37873503506	Nominal RA [deg]
dec_nom	-26.648192052919	Nominal Dec [deg]
roll_nom	84.529907563359	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7468.0379508436	Sum of GTIs [s]
livetime	7438.8659275981	Livetime [s]
ontime2	7230.1689306498	Sum of GTIs [s]
ontime3	7249.1943459213	Sum of GTIs [s]
ontime5	7454.895960629	Sum of GTIs [s]
ontime6	7119.2974852026	Sum of GTIs [s]
ontime7	7468.0379508436	Sum of GTIs [s]
ontime8	5493.8508393168	Sum of GTIs [s]
l2events	849418	Number of level 2 events

