

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 3727 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 20 2012

See [axaff03727N002\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.196

## Comments

The target moves at a rate of about 8.9 arcsec/hr. The subarray chosen for the observation is large enough to keep the target within the active region for 3 hr. As with all observations of moving targets, event positions are in the reference frame of Chandra, not of Titan. Users should run a software tool such as `sso_freeze` to reposition the events in the reference frame of Titan, then run normal data analysis tools.

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HETG used as count-rate suppression filter. No useful HETG spectral products. Only zero-order imaging or `ccd-spectral` data are of interest.

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Observation was intended to record the passage of Titan in front of the Crab Nebula. Dither was turned off for this observation. The CCD node boundary

at column 256 contains 2 columns of bad data due to disabling the dither.

seq_num	100037	Sequence number
obs_id	3727	Observation id
title	OBSERVATION OF SATURN AND TITAN PASSING IN FRONT OF THE CRAB NEBULA	&#160
observer	PROFESSOR HIROSHI TSUNEMI	Principal investigator
object	TITAN	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.64077	Observer's specified target RA [deg]
dec_targ	22.016361	Observer's specified target Dec [deg]
ra_nom	83.640386896903	Nominal RA [deg]
dec_nom	22.003917792921	Nominal Dec [deg]
roll_nom	276.15596345214	Nominal Roll [deg]
revision	3	Processing version of data
ontime	11196.300444901	Sum of GTIs [s]
livetime	9848.9623899551	Livetime [s]
ontime7	11196.300444901	Sum of GTIs [s]
l2events	1805804	Number of level 2 events

