

CHANDRA VALIDATION & VERIFICATION REPORT

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V&V Scientist: John Bright

Date (YYYY-MM-DD): 2000-10-31

Object: CYG X-3

ObsID: 1456

Observation interval(s):

Processing revision: 003

Instrument: ACIS

Detnam: ACIS-56789

Grating: HETG

Output products (check present):

ACIS (L1):	events	acis evt1	<input checked="" type="checkbox"/>
	mission time line	acis mt11	<input checked="" type="checkbox"/>
	good time intervals	acis flt1	<input checked="" type="checkbox"/>
	bad pixel list	acis bpix1	<input checked="" type="checkbox"/>
	window mask	acis msk1	<input checked="" type="checkbox"/>
	exposure stats	acis stat1	<input checked="" type="checkbox"/>
ACIS (L2):	events	acis evt2	<input type="checkbox"/>
	center image	acis cntr_img2	<input type="checkbox"/>
	full image	acis full_img2	<input type="checkbox"/>
	source list	acis src2	<input type="checkbox"/>
HRC (L1):	events	hrc evt1	<input type="checkbox"/>
	mission time line	hrc mt11	<input type="checkbox"/>
	good time intervals	hrc stdflt1	<input type="checkbox"/>
	bad pixel list	hrc bpix1	<input type="checkbox"/>
	deadtime factors	hrc dtf1	<input type="checkbox"/>
	deadtime factor stats	hrc stddtfst1	<input type="checkbox"/>
HRC (L2):	events	hrc evt2	<input type="checkbox"/>
	center image	hrc cntr_img2	<input type="checkbox"/>
	full image	hrc full_img2	<input type="checkbox"/>
	source list	hrc src2	<input type="checkbox"/>
TG (L1.5):	events	evt1a	<input checked="" type="checkbox"/>
	source list	srcla	<input checked="" type="checkbox"/>
TG (L2):	events	evt2	<input checked="" type="checkbox"/>
	Type II PHA	pha2	<input checked="" type="checkbox"/>

Verify actual obspar updated:  Yes  No (check one)

Obspar tolerance checks:

instrume	As expected	<input checked="" type="checkbox"/>
grating	As expected	<input checked="" type="checkbox"/>
detnam	As expected	<input checked="" type="checkbox"/>

	Superset	<input type="checkbox"/>	(eg ACIS-012367 for ACIS-7)
ra_pnt/dec_pnt	Within 30 arcmin	<input checked="" type="checkbox"/>	
roll_pnt	Within roll_tol	<input type="checkbox"/>	(if roll_tol != 0)
ra_nom	Matches ra_pnt	<input type="checkbox"/>	
	Matches predicted ra_pnt	<input type="checkbox"/>	
dec_nom	Matches dec_pnt	<input type="checkbox"/>	
	Matches predicted dec_pnt	<input checked="" type="checkbox"/>	
roll_nom	Matches roll_pnt	<input type="checkbox"/>	
	Matches predicted roll_pnt	<input checked="" type="checkbox"/>	
datamode	As expected	<input checked="" type="checkbox"/>	
readmode	As expected	<input checked="" type="checkbox"/>	(ACIS only)
exptimea	Within 10%	<input checked="" type="checkbox"/>	(ACIS only)
sim_z	As expected	<input checked="" type="checkbox"/>	
	(ACIS-I ~ -233.59, ACIS-S ~ -190.12, HRC-I ~ 126.98, HRC-S ~ 250.45)		

Usual Messages:  Yes (if not 'Yes', fill in next items)

Processing Errors:  No  Yes (explain)

Processing Warnings:  No  Yes (explain)

Visual inspection:

L1 events

L2 events     L2 full image     L2 center image

(TG)  L1.5 events     L1.5 source list     Type II PHA

Record source position: X (pix) = 4074    Y (pix) = 4134

Known Sources:  No  Yes (provide position differences in comments)

Standard GTI times (seconds):

ACIS/HRC:            ONTIME: 20803.20

ACIS Only:            ONTIME0:

                      ONTIME1:

                      ONTIME2:

                      ONTIME3:

                      ONTIME4:

                      ONTIME5: 20803.20

                      ONTIME6: 20803.20

                      ONTIME7: 20803.20

                      ONTIME8: 20803.20

                      ONTIME9: 20803.20

Constraints:

Time Critical:  No  Yes, if yes:

Monitor constraint met?	<input type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A
Phase constraint met?	<input type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A
Window constraint met?	<input type="checkbox"/>	No	<input type="checkbox"/>	Yes	<input type="checkbox"/>	N/A

Comments (include reasons for any Disposition Status other than COMPLETED OK):

Aspect solutions are good for each obi.

>>>This obsid requires reprocessing as the two obis are taken at different roll angles, thus the dispersed spectral arms are not properly stacked.

Charge\_Time (Required): 20803.20

VV: further consideration, reprocessing will not alter situation: two  
 VV: different obis obtained at different times --> expect different roll  
 VV: angles. --> State changed to CompltOK, 5 Feb 2001, ems

V&V Disposition Status (check one):

- COMPLETED OK  
 V&V processed normally - no identified problems.
- HOLD  
 V&V detected unresolved anomaly - further investigation required  
 (V&V scientist initiates action)
- REPROCESSING REQUIRED  
 V&V detected an anomaly that is expected can be resolved through  
 appropriate reprocessing (better calibration, bugfix, etc).  
 (V&V scientist initiates action)
- REVIEW REQUIRED  
 V&V detected an anomaly that requires a review board decision to  
 determine if additional data should be obtained.  
 (Response from USG required)

Data Distribution Recommendation (check one):

- DISTRIBUTE DATA                      Data can be distributed.
- DO NOT DISTRIBUTE DATA              V&V recommends not distributing data at this