



Calibration to CALDB File: ACIS

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ACIS Calibration Data and Data Products

The root for the *CALDB Dir* is \$CALDB/data/chandra/ .

<i>CALDB File Type</i> <i>CCNM</i> <i>CALDB Dir</i>	<i>Filename</i>	<i>Installation Date</i>	<i>CALDB Version</i>	
<i>Bad Pixel List</i> BADPIX acis/bcf/badpix/ (<i>v1</i> and <i>v2</i> : all files within each version contain same data; extras added for Summer 2000 CAL ObsIDs)	<i>-90 C:</i> acisD1999-07-22badpixN0005.fits	2000-07-31T16:00:00	<u>1.3</u>	acisD...
	<i>-100 C:</i> acisD1999-08-13badpixN0003.fits	2000-07-31T16:00:00	<u>1.3</u>	acisD...
	<i>-110 C:</i> acisD1999-09-16badpixN0002.fits acisD2000-07-03badpixN0002.fits acisD2000-07-05badpixN0002.fits acisD2000-08-11badpixN0002.fits	2000-07-31T16:00:00 2001-02-14T19:00:00	<u>1.3</u> <u>2.2</u>	acisD...
	<i>-120 C:</i> acisD2000-11-28badpixN0002.fits acisD2000-08-12badpixN0002.fits acisD2000-07-06badpixN0002.fits acisD2000-07-04badpixN0002.fits acisD2000-01-29badpixN0002.fits <i>The following files have been retired as of CalDB 3.0.2:</i> acisD2002-10-05badpixN0001.fits acisD2002-01-23badpixN0001.fits acisD2000-11-28badpixN0001.fits	2005-03-23T15:00:00 2003-06-03T18:00:00	<u>3.0.2</u> <u>2.22</u>	acisD... acisD... acisD... acisD...

Calibration to CALDB File: ACIS – CALDB 2

	<p>acisD2000-07-04badpixN0001.fits acisD2000-07-06badpixN0001.fits acisD2000-08-12badpixN0001.fits acisD2000-01-29badpixN0001.fits</p>	<p>2001-02-14T19:00:00 2000-07-31T16:00:00</p>	<p><u>2.2</u> <u>1.6</u></p>	<p><u>badpix_2001</u></p>
<p>Blank Field Event Files BKGRND acis/bcf/bkgrnd/</p>	<p><i>-120 C CTI-corrected (2000/12/01-Present):</i> acis0iD2000-12-01bkgrnd_ctiN0004.fits acis1iD2000-12-01bkgrnd_ctiN0004.fits acis1sD2000-12-01bkgrnd_ctiN0005.fits acis2iD2000-12-01bkgrnd_ctiN0004.fits acis2sD2000-12-01bkgrnd_ctiN0005.fits acis3iD2000-12-01bkgrnd_ctiN0004.fits acis3sD2000-12-01bkgrnd_ctiN0005.fits acis5sD2000-12-01bkgrnd_ctiN0001.fits acis6iD2000-12-01bkgrnd_ctiN0004.fits acis6sD2000-12-01bkgrnd_ctiN0005.fits acis7iD2000-12-01bkgrnd_ctiN0001.fits acis7sD2000-12-01bkgrnd_ctiN0001.fits acis8iD2000-12-01bkgrnd_ctiN0001.fits acis8sD2000-12-01bkgrnd_ctiN0001.fits</p> <p><i>ACIS Stowed background files:</i> acis0D2000-12-01bgstow_ctiN0004.fits acis1D2000-12-01bgstow_ctiN0004.fits acis2D2000-12-01bgstow_ctiN0002.fits acis3D2000-12-01bgstow_ctiN0004.fits acis5D2000-12-01bgstow_ctiN0001.fits acis6D2000-12-01bgstow_ctiN0004.fits acis7D2000-12-01bgstow_ctiN0001.fits</p>	<p>2007-09-14T14:00:00</p>	<p><u>3.4.1</u></p>	<p><u>README</u> <u>Experimental</u> <u>files</u> (not for u</p>
	<p><i>-120 C non-CTI-corrected (2000/12/01-Present):</i> acis1sD2000-12-01bkgrndN0001.fits acis2sD2000-12-01bkgrndN0005.fits acis3sD2000-12-01bkgrndN0005.fits acis5sD2000-12-01bkgrndN0005.fits acis6sD2000-12-01bkgrndN0005.fits acis7sD2000-12-01bkgrndN0005.fits acis8sD2000-12-01bkgrndN0005.fits</p> <p>acis0iD2000-12-01bkgrndN0002.fits acis1iD2000-12-01bkgrndN0002.fits acis2iD2000-12-01bkgrndN0002.fits acis3iD2000-12-01bkgrndN0002.fits acis6iD2000-12-01bkgrndN0002.fits acis7iD2000-12-01bkgrndN0003.fits acis8iD2000-12-01bkgrndN0003.fits</p>	<p>2007-09-14T14:00:00 2007-05-16T15:00:00</p>	<p><u>3.4.1</u> <u>3.4.0</u></p>	

Calibration to CALDB File: ACIS – CALDB 2

<p><i>ACIS Stowed background files:</i> acis5D2000-12-01bgstowN0003.fits acis7D2000-12-01bgstowN0003.fits</p>		
<p><i>-120 C CTI-corrected</i> <i>(2000/01/29-2000/12/01):</i> acis0iD2000-01-29bkgrnd_ctiN0005.fits acis1iD2000-01-29bkgrnd_ctiN0005.fits acis1sD2000-01-29bkgrnd_ctiN0005.fits acis2iD2000-01-29bkgrnd_ctiN0005.fits acis2sD2000-01-29bkgrnd_ctiN0005.fits acis3iD2000-01-29bkgrnd_ctiN0005.fits acis3sD2000-01-29bkgrnd_ctiN0005.fits acis5sD2000-01-29bkgrnd_ctiN0001.fits acis6iD2000-01-29bkgrnd_ctiN0005.fits acis6sD2000-01-29bkgrnd_ctiN0005.fits acis7iD2000-01-29bkgrnd_ctiN0001.fits acis7sD2000-01-29bkgrnd_ctiN0001.fits acis8sD2000-01-29bkgrnd_ctiN0001.fits</p>	<p>2007-09-14T14:00:00</p>	<p><u>3.4.1</u></p>
<p><i>-120 C non-CTI-corrected</i> <i>(2000/01/29-2000/12/01):</i> acis1sD2000-01-29bkgrndN0005.fits acis2sD2000-01-29bkgrndN0005.fits acis3sD2000-01-29bkgrndN0005.fits acis5sD2000-01-29bkgrndN0005.fits acis6sD2000-01-29bkgrndN0005.fits acis7sD2000-01-29bkgrndN0005.fits acis8sD2000-01-29bkgrndN0005.fits</p> <p>acis0iD2000-01-29bkgrndN0003.fits acis1iD2000-01-29bkgrndN0003.fits acis2iD2000-01-29bkgrndN0003.fits acis3iD2000-01-29bkgrndN0003.fits acis7iD2000-01-29bkgrndN0004.fits</p>	<p>2007-09-14T14:00:00</p> <p>2007-05-16T15:00:00</p>	<p><u>3.4.1</u></p> <p><u>3.4.0</u></p>
<p><i>-110 C:</i> acis0iD1999-09-16bkgrndN0002.fits acis1iD1999-09-16bkgrndN0002.fits acis2iD1999-09-16bkgrndN0002.fits acis2sD1999-09-16bkgrndN0002.fits acis3iD1999-09-16bkgrndN0002.fits acis3sD1999-09-16bkgrndN0002.fits acis5sD1999-09-16bkgrndN0002.fits acis6iD1999-09-16bkgrndN0002.fits acis6sD1999-09-16bkgrndN0002.fits acis7iD1999-09-16bkgrndN0002.fits acis7sD1999-09-16bkgrndN0002.fits acis8sD1999-09-16bkgrndN0002.fits</p>	<p>2007-05-16T15:00:00</p>	<p><u>3.4.0</u></p>

Calibration to CALDB File: ACIS – CALDB 2

	acis9sD1999-09-16bkgrndN0002.fits			
	<p>-100 C: acis6sD1999-08-12bkgrndN0002.fits acis7iD1999-08-12bkgrndN0003.fits acis7sD1999-08-12bkgrndN0002.fits</p>	2002-05-16T15:00:00	<u>3.4.0</u>	
<p>Time-Dependent Contamination</p> <p>CONTAM acis/bcf/contam/</p>	acisD1999-08-13contamN0004.fits Spatial dependence included!	2004-12-14T17:00:00	<u>3.0.0</u>	
	acisD1999-08-13contamN0003.fits acisD1999-08-13contamN0002.fits acisD1999-08-13contamN0001.fits	2004-02-02T21:00:00	<u>2.26</u>	
<p>CTI Correction Table and Trap Density Maps</p> <p>CTI acis/bcf/cti/</p>	<p>-120 C: acisD2000-01-29ctiN0006.fits acisD2002-08-01ctiN0006.fits</p>	2006-12-15T14:00:00	<u>3.3.0</u>	
	acisD2000-01-29ctiN0005.fits acisD2002-08-01ctiN0005.fits	2005-11-16T17:00:00	<u>3.2.0</u>	
	acisD2000-01-29ctiN0004.fits	2005-06-23T10:00:00	<u>3.1.0</u>	
	acisD2000-01-29ctiN0002.fits	2002-11-08T00:00:00	<u>2.18</u>	
<p>Position-Dependent Gains</p> <p>DET_GAIN acis/bcf/gain/</p> <p><i>Note:</i> before radiation damage, FI chips had no gain shift with temperature.</p> <p>(-110 C v5 and -120 C v2 & 3: all files within each version contain same data; extras added for Summer 2000 CAL ObsIDs)</p>	<p>-90 C: acisD1999-07-22gainN0002.fits</p>	2000-03-26T05:00:00	<u>1.0</u>	FI: <u>gain.dat</u> BI: <u>gain tables</u>
	<p>-100 C: acisD1999-08-13gainN0002.fits</p>	2001-01-25T18:00:00	<u>1.0</u>	FI: <u>gain.dat</u> BI: <u>gain tables</u>
	<p>-110 C: acisD1999-09-16gainN0006.fits acisD1999-09-16gainN0005.fits acisD2000-07-03gainN0005.fits acisD2000-07-05gainN0005.fits acisD2000-08-11gainN0005.fits acisD1999-09-16gainN0004.fits</p> <p><i>acisD*gainN0005.fits files obsolete as of CALDB 3.4.3</i> <i>v4 obsolete as of CALDB 2.2</i></p>	2008-03-24T16:00:00 2001-02-14T19:00:00 2000-06-12T15:25:00	<u>3.4.3</u> <u>2.2</u> <u>1.2</u>	<p>v6: BI chip gain tables for v2, non CTI gain tables for v5, v6, and v7. v6: BI chip gain tables for v2, non CTI gain tables for v5, v6, and v7. FI chip gains are available in <u>gain tables: 09</u></p>

Calibration to CALDB File: ACIS – CALDB 2

	acisD2005-05-01t_gainN0005_revA.fits acisD2005-08-01t_gainN0005.fits acisD2005-08-02t_gainN0005.fits acisD2005-11-01t_gainN0005.fits acisD2006-02-01t_gainN0005.fits acisD2006-05-01t_gainN0005.fits acisD2006-08-01t_gainN0005.fits acisD2006-11-01t_gainN0005.fits acisD2007-02-01t_gainN0005.fits acisD2007-05-01t_gainN0005.fits acisD2007-08-01t_gainN0005.fits acisD2007-11-01t_gainN0005.fits acisD2008-02-01t_gainN0005.fits	2007-05-16T15:00:00 2007-09-14T14:00:00 2007-12-13T17:30:00 2008-03-24T16:00:00 2008-06-16T16:30:00 2008-08-25T16:00:00	3.4.0 3.4.1 3.4.2 3.4.3 3.4.5 3.5.0	
	<i>Current "flat" file in processing:</i> acisD2008-05-01t_gainN0002.fits	2008-08-25T16:00:00	3.5.0	
Event Grades GRADE acis/bcf/grade/	acisD1996-11-01gradeN0002.fits acisD1996-11-01gradeN0001.fits	2002-02-14T17:00:00 2000-03-26T05:00:00	2.12 1.0	Preflig
Event/Split Thresholds EVTSPLT acis/bcf/evtsplt/	acisD1996-11-01evtspltN0001.fits	2000-03-26T05:00:00	1.0	
Good Time Interval Limits GTI_LIM acis/bcf/gtilim/	acisD2002-11-15gtilimN0003.fits acisD2002-11-15gtilimN0002.fits acisD2002-11-15gtilimN0001.fits <i>v1 retired as of CALDB 2.21</i>	2004-07-01T13:00:00 2003-02-14T16:00:00 2002-11-29T14:00:00	2.27 2.21 2.19	
	acisD1999-07-22gtilimN0006.fits acisD1999-07-22gtilim_secN0005.fits acisD1999-07-22gtilimN0005.fits acisD1999-07-22gtilimN0004.fits acisD1999-07-22gtilim_secN0004.fits <i>v4 & 5 (but not "secN0005") retired as of CALDB 2.21</i>	2004-07-01T13:00:00 2003-02-14T16:00:00 2002-08-15T13:45:00	2.27 2.21 2.16	
	acisD1999-07-22gtilimN0003.fits acisD1999-07-22gtilimN0002.fits <i>v2 & 3 retired as of CALDB 2.16</i>	2001-06-01T19:59:00 2000-03-26T00:00:00	1.0 2.6	
Mean Quantum Efficiency	acisD1997-04-17qeN0006.fits acisD1997-04-17qeN0005.fits	2006-12-15T14:00:00 2004-08-11T17:00:00	3.3.0 2.28	Releas

Calibration to CALDB File: ACIS – CALDB 2

<p>(includes OBF transmission)</p> <p>QE acis/bcf/qe/</p>	<p>acisD1997-04-17qeN0004.fits acisD1997-04-17qeN0003.fits</p> <p><i>V4 deprecated with CONTAM v3, as of CALDB 2.26</i></p>	<p>2001-06-01T19:59:00 2000-09-07T00:00:00</p>	<p><u>2.6</u> <u>2.0</u></p>	<p><u>10, 11, 12, 13, S</u> <u>aciss aux pr0</u></p>
<p>Quantum Efficiency Uniformity</p> <p>QEU acis/bcf/qe/</p>	<p>acisD1996-11-01qeN0001.fits -110 C/CTI: acisD1999-09-16qeN0002.fits -120 C/CTI: acisD2000-01-29qeN0006.fits acisD2000-01-29qeN0005.fits</p> <p>acisD2000-01-29qeN0002.fits acisD2000-01-29qeN0001.fits</p>	<p>Pre-existing file 2000-12-01T13:00:00 2006-12-15T14:00:00 2004-08-11T17:00:00 2000-09-06T00:00:00</p>	<p><u>1.0</u> <u>2.0</u> <u>3.3.0</u> <u>2.28</u> <u>2.0</u></p>	
<p>Order-Sorting and Integrated Probability Table</p> <p>OSIP acis/cpf/osip/</p>	<p>ACIS-S -90 C: acisD1999-07-22osipN0004.fits</p> <p>ACIS-S -100 C: acisD1999-08-13osipN0005.fits acisD1999-08-13osipN0004.fits</p> <p><i>v4 retired as of CALDB 2.6</i></p> <p>ACIS-S -110 C: acisD1999-09-16osipN0007.fits acisD2000-08-11osipN0007.fits acisD1999-09-16osipN0006.fits acisD2000-08-11osipN0006.fits acisD1999-09-16osipN0005.fits acisD2000-08-11osipN0005.fits acisD1999-09-16osipN0004.fits acisD2000-08-11osipN0004.fits</p> <p>2000-08-11 files contain the same data as the 1999-09-16 files. <i>v6's retired as of CalDB 3.5.0 v5's retired as of CalDB 2.26 v4 retired as of CALDB 2.5</i></p> <p>ACIS-S -120 C: acisD2000-01-29osip_ctiN0006.fits acisD2000-01-29osip_ctiN0005.fits acisD2000-01-29osipN0006.fits acisD2000-08-12osipN0006.fits acisD2000-01-29osipN0005.fits acisD2000-08-12osipN0005.fits acisD2000-01-29osipN0004.fits</p>	<p>2000-11-20T17:00 2001-06-01T19:59 2000-11-20T17:00 2008-09-05T16:00 2004-02-02T21:00 2001-05-15T17:59 2000-11-20T17:00 2006-12-15T14:00 2001-08-07T15:30 2001-05-15T17:59 2000-11-20T17:00</p>	<p><u>1.8</u> <u>2.6</u> <u>1.8</u> <u>3.5.0</u> <u>2.26</u> <u>2.5</u> <u>1.8</u> <u>3.3.0</u> <u>2.8</u> <u>2.5</u> <u>1.8</u></p>	

Calibration to CALDB File: ACIS – CALDB 2

	<p>acisD2000–08–12osipN0004.fits</p> <p>v6 files contain same data v5 retired as of CALDB 2.8 v4 retired as of CALDB 2.5</p>			
<p>Two–Dimensional Point Spread Function</p> <p>2D_PSF acis/cpf/2dpsf/</p>	<p>ACIS–I type 1: acisi1998–11–052dpsf1N0002.fits type 2: acisi1998–11–052dpsf2N0002.fits type 3: acisi1998–11–052dpsf3N0002.fits type 4: acisi1998–11–052dpsf4N0002.fits</p>	<p>2000–10–26T00:00:00</p>	<p><u>2.0</u></p>	
	<p>ACIS–S type 1: aciss1998–11–052dpsf1N0002.fits type 2: aciss1998–11–052dpsf2N0002.fits type 3: aciss1998–11–052dpsf3N0002.fits type 4: aciss1998–11–052dpsf4N0002.fits</p>			
<p>Phase 2 responses</p> <p>P2_RESP acis/cpf/p2_resp/ This file to be used with mkacisrmf</p>	<p>acisD2000–01–29p2_respN0006.fits acisD2000–01–29p2_respN0005.fits acisD2000–01–29p2_respN0004.fits acisD2000–01–29p2_respN0003.fits acisD2000–01–29p2_respN0002.fits</p> <p><i>Version N0002 deprecated in CalDB 3.0.3</i></p>	<p>2006–12–15T14:00:00 2005–11–16T17:00:00 2005–06–23T10:00:00 2005–05–09T16:00:00 2004–12–14T17:00:00</p>	<p><u>3.3.0</u> <u>3.2.0</u> <u>3.1.0</u> <u>3.0.3</u> <u>3.0.0</u></p>	
<p>Fits–Embedded Function</p> <p>FEF acis/cpf/fefs/</p>	<p>–90 C PHA: acisD1999–07–22fef_phaN0002.fits acisD1999–07–22fef_phaN0001.fits</p> <p><i>v1 retired as of CALDB 2.18</i></p>	<p>2002–11–08T00:00:00 2001–02–14T19:00:00</p>	<p><u>2.18</u> <u>2.2</u></p>	ECD f
	<p>–90 C PI: acisD1999–07–22fef_piN0001.fits</p> <p><i>PI FEFs deprecated as of CalDB 3.0.0</i></p>	<p>2001–02–14T19:00:00</p>	<p><u>2.2</u></p>	
	<p>–100 C PHA: acisD1999–08–13fef_phaN0002.fits acisD1999–08–13fef_phaN0001.fits</p> <p><i>v1 retired as of CALDB 2.18</i></p>	<p>2002–11–08T00:00:00 2001–02–14T19:00:00</p>	<p><u>2.18</u> <u>2.2</u></p>	ECD f
	<p>–100 C PI: acisD1999–08–13fef_piN0001.fits</p> <p><i>PI FEFs deprecated as of CalDB 3.0.0</i></p>	<p>2001–02–14T19:00:00</p>	<p><u>2.2</u></p>	
	<p>–110 C PHA: acisD1999–09–16fef_phaN0002.fits acisD1999–09–16fef_phaN0001.fits</p>	<p>2002–11–08T00:00:00 2001–02–14T19:00:00</p>	<p><u>2.18</u> <u>2.2</u></p>	ECD f

Calibration to CALDB File: ACIS – CALDB 2

<i>v1 retired as of CALDB 2.18</i>			
-110 C PI: acisD1999-09-16fef_piN0001.fits <i>PI FEFs deprecated as of CalDB 3.0.0</i>	2001-02-14T19:00:00	<u>2.2</u>	
-120 C PHA: acisD2000-01-29fef phaN0005.fits acisD2000-01-29fef phaN0004.fits acisD2000-01-29fef phaN0003.fits acisD2000-01-29fef phaN0002.fits acisD2000-01-29fef phaN0001.fits <i>v4 retired as of CalDB 2.29</i> <i>v3 retired as of CalDB 2.26</i> <i>v2 retired as of CALDB 2.18</i> <i>v1 retired as of CALDB 2.7</i>	2002-11-19T17:00:00 2004-02-02T21:00:00 2002-11-08T00:00:00 2001-08-07T18:00:00 2001-02-14T19:00:00	<u>2.29</u> <u>2.26</u> <u>2.18</u> <u>2.7</u> <u>2.2</u>	<u>ECD files: 01/</u>
-120 C PI: acisD2000-01-29fef_piN0002.fits acisD2000-01-29fef_piN0001.fits <i>PI FEFs deprecated as of CalDB 3.0.0</i> <i>v1 retired as of CALDB 2.7</i>	2001-08-07T18:00:00 2001-02-14T19:00:00	<u>2.7</u> <u>2.2</u>	<u>ECD files: 01/</u>
-120 C PHA for CTI-corrected data: acisD2000-01-29fef pha_ctiN0004.fits acisD2000-01-29fef pha_ctiN0003.fits acisD2000-01-29fef pha_ctiN0002.fits	2004-11-19T17:00:00 2004-02-02T21:00:00 2003-02-14T16:00:00	<u>2.29</u> <u>2.26</u> <u>2.21</u>	

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Last modified: 3 September 2008