



Calibration to CALDB File: HRC

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HRC Calibration 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 hrc/bcf/badpix/	<i>HRC-I:</i> hrciD1999-07-22badpixN0002.fits hrciD1999-07-22badpixN0001.fits	2002-04-04T15:05:00 1999-09-13T00:00:00	<u>2.13</u> <u>1.0</u>	hrc_badp hrc_badp
	<i>HRC-S:</i> hrcsD1999-07-22badpixN0003.fits hrcsD1999-07-22badpixN0002.fits hrcsD1999-07-22badpixN0001.fits <i>v2 retired as of CalDB 2.28</i> <i>v1 retired as of CALDB 2.11</i>	2004-08-11T17:00:00 2001-12-26T00:00:00 1999-10-06T00:00:00	<u>2.28</u> <u>2.11</u> <u>1.0</u>	hrc_badp hrc_badp hrc_badp
<i>Degap Correction Table</i> GAPLOOKUP hrc/bcf/gaplookup/	<i>HRC-I:</i> hrciD1999-07-22gaplookupN0003.fits hrciD1999-07-22gaplookupN0002.fits <i>v2 retired as of CalDB 3.4.1</i> hrciD1999-07-22gaplookupN0001.fits <i>v1 retired as of CALDB 3.2.3</i>	2007-09-14T14:00:00 2006-08-09T16:00:00 2005-06-14T13:00:00	<u>3.4.1</u> <u>3.2.3</u> <u>3.0.4</u>	capella 2 hrci deg N/A
	<i>HRC-S:</i> hrcsD1999-07-22gaplookupN0002.fits hrcsD1999-07-22gaplookupN0001.fits <i>v1 retired as of CALDB 3.2.0</i>	2005-11-16T16:00:00 2005-06-14T13:00:00	<u>3.2.0</u> <u>3.0.4</u>	N/A hrc dega
<i>Detector Gain Map</i>	<i>HRC-I:</i> hrciD1998-10-30gainN0002.fits	2006-08-09T16:00:00	<u>3.2.3</u>	hrciD199

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GMAP hrc/bcf/gain/	hrciD1999-10-04gainN0003.fits hrciD2000-12-12gainN0002.fits hrciD2002-01-26gainN0002.fits hrciD2003-02-22gainN0002.fits hrciD2004-11-25gainN0002.fits hrciD2005-10-17gainN0002.fits hrciD2006-09-06gainN0002.fits	2007-05-16T15:00:00	<u>3.4.0</u>	<u>hrciD1999-10-04gainN0003.fits</u> <u>hrciD2000-12-12gainN0002.fits</u> <u>hrciD2002-01-26gainN0002.fits</u> <u>hrciD2003-02-22gainN0002.fits</u> <u>hrciD2004-11-25gainN0002.fits</u> <u>hrciD2005-10-17gainN0002.fits</u> <u>hrciD2006-09-06gainN0002.fits</u>	
	hrciD1999-10-04gainN0002.fits (<i>retired in 3.4.0</i>) hrciD2000-12-12gainN0001.fits (<i>retired in 3.4.0</i>) hrciD2002-01-26gainN0001.fits (<i>retired in 3.4.0</i>) hrciD2003-02-22gainN0001.fits (<i>retired in 3.4.0</i>) hrciD2004-11-25gainN0001.fits (<i>retired in 3.4.0</i>) hrciD2005-10-17gainN0001.fits (<i>retired in 3.4.0</i>) hrciD2006-09-06gainN0001.fits (<i>retired in 3.4.0</i>)	2006-12-15T14:00:00	<u>3.3.0</u>		
	hrciD1999-10-04gainN0001.fits (<i>retired in 3.3.0</i>) hrciD1998-10-30gainN0001.fits (<i>retired in 3.2.3</i>) This file contains an error!	2005-11-15T16:00:00 2005-11-15T16:00:00	<u>3.2.0</u>		
	HRC-S: hrCsD1999-07-22gainN0001.fits	2000-07-31T16:00:00	<u>1.3</u>	<u>pifac.0414</u>	
	Event Flatness Test Coefficients	HRC-I: hrciD1999-07-22eftestN0001.fits	2000-03-01T00:00:00	<u>1.0</u>	<u>eftest_i.v1.txt</u>
	EFTEST hrc/bcf/eftest/	HRC-S: hrCsD1999-07-22eftestN0001.fits	2000-03-01T00:00:00	<u>1.0</u>	<u>eftest_s.v1.txt</u>
	Event Hyperbolic Test Coefficients FPTEST hrc/bcf/fptest/	HRC-I: hrciD1999-07-22fptestN0003.fits hrciD1999-07-22fptestN0002.fits	2001-03-19T20:00:00 2000-07-31T16:00:00	<u>2.4</u> <u>1.3</u>	<u>fptest_i.v3.txt</u>
		<i>v2 retired as of CALDB 2.4</i>			
		HRC-S: hrCsD1999-07-22fptestN0004.fits hrCsD1999-07-22fptestN0003.fits	2001-03-19T20:00:00 2000-07-31T16:00:00	<u>2.4</u> <u>1.3</u>	<u>fptest_s.v4.txt</u>
		<i>v3 retired as of CALDB 2.4</i>			

Calibration to CALDB File: HRC – CALDB 2

Amp Saturation Test Coefficients SATTEST hrc/bcf/sattest/	HRC-I: hrciD1999-07-22satstestN0002.fits	2000-07-31T16:00:00	<u>1.3</u>	satstest i.
	HRC-S: hrcsD1999-07-22satstestN0002.fits			
Amp Scale-factor Correction Coefficients AMP_SF_COR hrc/bcf/amp_sf_cor/	HRC-I: hrciD1999-07-22amp_sf_corN0001.fits	2002-11-08T00:00:00	<u>2.18</u>	See mem
	HRC-S: hrcsD1999-07-22amp_sf_corN0001.fits	2002-11-08T00:00:00	<u>2.18</u>	
Tap-ringing Test Coefficients TAPRINGTEST hrc/bcf/tapring/	HRC-I: hrciD1999-07-22tapringN0002.fits hrciD1999-07-22tapringN0001.fits	2003-09-23T14:00:00 2000-07-31T16:00:00	<u>2.24</u> <u>1.3</u>	See the I
	HRC-S: hrcsD1999-07-22tapringN0002.fits hrcsD1999-07-22tapringN0001.fits	2003-09-23T14:00:00 2001-01-25T18:00:00	<u>2.24</u> <u>2.2</u>	
	HRC-I (2002/11/15–Present): hrciD2002-11-15gtilimN0003.fits hrciD2002-11-15gtilimN0001.fits	2004-07-01T13:00:00 2002-11-29T14:00:00	<u>2.27</u> <u>2.19</u>	
	HRC-I (1999/10/04–2002/11/15): hrciD1999-10-04gtilim_secN0006.fits hrciD1999-10-04gtilimN0006.fits hrciD1999-10-04gtilim_secN0005.fits hrciD1999-10-04gtilimN0005.fits hrciD1999-10-04gtilimN0004.fits hrciD1999-10-04gtilim_secN0004.fits hrciD1999-10-04gtilimN0003.fits hrciD1999-10-04gtilimN0002.fits v3 retired as of CALDB 2.16 v2 retired as of CALDB 2.6	2004-07-01T13:00:00 2002-08-15T13:45:00 2001-06-01T19:59:00 2000-03-26T00:00:00	<u>2.27</u> <u>2.16</u> <u>2.6</u> <u>1.0</u>	
HRC-I (Launch–1999/10/04): hrciD1999-07-22gtilimN0006.fits hrciD1999-07-22gtilim_secN0005.fits hrciD1999-07-22gtilimN0004.fits hrciD1999-07-22gtilim_secN0004.fits hrciD1999-07-22gtilimN0003.fits hrciD1999-07-22gtilimN0002.fits v3 retired as of CALDB 2.16 v2 retired as of CALDB 2.6	2004-07-01T13:00:00 2002-08-15T13:45:00 2001-06-01T19:59:00 2000-03-26T00:00:00	<u>2.27</u> <u>2.16</u> <u>2.6</u> <u>1.0</u>		
HRC-S (2002/11/15–Present): hrcsD2002-11-15gtilimN0003.fits hrcsD2002-11-15gtilimN0001.fits	2004-07-01T13:00:00 2002-11-29T14:00:00	<u>2.27</u> <u>2.19</u>		

Calibration to CALDB File: HRC – CALDB 2

	<p>HRC-S (Launch-2002/11/15): hrcsD1999-07-22gtilimN0006.fits hrcsD1999-07-22gtilim_secN0005.fits hrcsD1999-07-22gtilimN0004.fits hrcsD1999-07-22gtilim_secN0004.fits hrcsD1999-07-22gtilimN0003.fits hrcsD1999-07-22gtilimN0002.fits</p> <p>v3 retired as of CALDB 2.16 v2 retired as of CALDB 2.6</p>	<p>2004-07-01T13:00:00 2002-08-15T13:45:00 2001-06-01T19:59:00 2000-03-26T00:00:00</p>	<p><u>2.27</u> <u>2.16</u> <u>2.6</u> <u>1.0</u></p>	
<p>Mean Quantum Efficiency (includes UVIS transmission) QE hrc/bcf/qe/</p>	<p>HRC-I: hrciD1999-07-22qeN0007.fits hrciD1999-07-22qeN0006.fits hrciD1999-07-22qeN0005.fits hrciD1999-07-22qeN0004.fits hrciD1999-07-22qeN0003.fits</p> <p>v5 retired as of CALDB 2.17 v4 retired as of CALDB 2.15 v3 retired as of CALDB 2.10</p>	<p>2003-12-15T21:00:00 2002-10-01T13:00:00 2002-06-25T13:00:00 2001-12-12T20:00:00 1999-12-21T00:00:00</p>	<p><u>2.25</u> <u>2.17</u> <u>2.15</u> <u>2.10</u> <u>1.0</u></p>	<p>v7: mcp_qe_i.v2 mcp_qe_i.v2.2.c v6: mcp_qe_i.v2 uvis_i.v4.mdl v5: mcp_qe_i.v2 uvis_i.v3.mdl v4: mcp_qe_i.v1 uvis_i.v3.mdl v3: mcp_qe_i.v1 uvis_i.v2.mdl</p>
	<p>HRC-S: hrcsD1999-07-22qeN0009.fits hrcsD1999-07-22qeN0008.fits hrcsD1999-07-22qeN0007.fits hrcsD1999-07-22qeN0006.fits hrcsD1999-07-22qeN0005.fits hrcsD1999-07-22qeN0004.fits hrcsD1999-07-22qeN0003.fits</p> <p>v8 retired as of CALDB 3.4.1 v7 retired as of CALDB 3.2.1 v6 retired as of CALDB 3.0.1 v5 retired as of CALDB 2.17 v4 retired as of CALDB 2.15 v3 retired as of CALDB 2.9</p>	<p>2007-05-16T15:00:00 2005-12-15T16:00:00 2005-02-08T14:00:00 2002-10-01T13:00:00 2002-02-14T17:00:00 2001-10-22T16:00:00 1999-12-21T00:00:00</p>	<p><u>3.4.0</u> <u>3.2.1</u> <u>3.0.1</u> <u>2.17</u> <u>2.12</u> <u>2.9</u> <u>1.0</u></p>	<p>v9: MCP QE v6 v9 employs UVI 4 below. v8: MCP QE v5 v8 employs UVI 4 below. v7: mcp_qe_s.v4 uvis_s1_v4.mdl uvis_s2.v4.mdl uvis_s34.v4.mdl uvis_s56.v4.mdl v6: mcp_qe_s.v3 uvis_s1_v4.mdl uvis_s2.v4.mdl uvis_s34.v4.mdl uvis_s56.v4.mdl v5: mcp_qe_s.v2 uvis_s1_v3.1.md uvis_s2.v3.1.md uvis_s34.v3.1.m uvis_s56.v3.1.m</p>

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				<p>v4: mcp uvis s1 uvis s2 uvis s34 uvis s56</p> <p>v3: mcp uvis s1 uvis s2 uvis s34 uvis s56</p>
<p>QE Uniformity Maps</p> <p>QEU hrc/bcf/qe/ (v1: flat maps, include UVIS geometry)</p>	<p>HRC-I: hrciD1999-07-22qeuN0002.fits hrciD1999-07-22qeuN0001.fits v1 retired as of CALDB 2.9</p>	<p>2001-10-22T16:00:00 1999-12-21T00:00:00</p>	<p><u>2.9</u> <u>1.0</u></p>	<p>hrci smc hrci surf</p>
	<p>HRC-S: hrscD1999-07-22qeuN0004.fits hrscD1999-07-22qeuN0003.fits hrscD1999-07-22qeuN0002.fits hrscD1999-07-22qeuN0001.fits v3 retired as of CALDB 3.0.1 v2 retired as of CALDB 2.12 v1 retired as of CALDB 2.9</p>	<p>2005-02-08T14:00:00 2002-02-14T17:00:00 2001-10-22T16:00:00 1999-12-21T00:00:00</p>	<p><u>3.0.1</u> <u>2.12</u> <u>2.9</u> <u>1.0</u></p>	<p>v4: REA hrscs qeu</p> <p>v3: REA hrscs qeu</p> <p>v2: REA hrscs qeu</p>
<p>LETG/HRC-S Region Filter (Bowtie Region Filter)</p> <p>TGMASK2 hrc/bcf/tgmask2/</p>	<p>letgD1999-07-22regN0002.fits</p>	<p>2000-11-15T16:00:00</p>	<p><u>1.8</u></p>	<p>letgs reg</p>
<p>Two-Dimensional Point Spread Functions</p> <p>2D_PSF hrc/cpf/2dpsf/</p>	<p>HRC-I type 1: hrci1998-11-052dpsf1N0002.fits type 2: hrci1998-11-052dpsf2N0002.fits type 3: hrci1998-11-052dpsf3N0002.fits type 4: hrci1998-11-052dpsf4N0002.fits</p>	<p>2000-11-26T00:00:00</p>	<p><u>2.0</u></p>	
	<p>HRC-S type 1: hrscs1998-11-052dpsf1N0002.fits type 2: hrscs1998-11-052dpsf2N0002.fits type 3: hrscs1998-11-052dpsf3N0002.fits type 4: hrscs1998-11-052dpsf4N0002.fits</p>			
<p>LETG/HRC-S PI Region Filters</p>	<p>letgD1999-07-22pireg046_N0001.fits letgD1999-07-22pireg062_N0001.fits letgD1999-07-22pireg075_N0001.fits</p>	<p>2001-03-07T14:50:00</p>	<p><u>2.3</u></p>	

Calibration to CALDB File: HRC – CALDB 2

TGPIMASK2 hrc/bcf/tgmask2/			
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