

Incidental Data Tables

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A.1 Introduction

This chapter contains data tables used in the analysis or simulation of the data described in this report.

The detector locations for the various phases of XRCF testing are summarized in Table A.1. During the flatfield testing prior to the HRMA calibration in November 1996, the detectors were arranged as in phases C, D & E. We also include, for completeness, the detector locations during Phase 2 of the HRMA calibration (phases F, G, & H) when flight instruments (or the ACIS-2C) were in the focal plane. **Instruments are referred to throughout this document by the positions they occupied during phases C, D, & E of the XRCF HRMA calibration.** However, the data files themselves give detectors their names based on their positions at the time of the test.

Phase:	CDE	FGH	I	J
location				
HXDA	fpc_x1	fpc_5
	fpc_x2	fpc_x2
	ssd_x	ssd_5
BND-H	fpc_hn	fpc_hn	fpc_hn	fpc_hn
	fpc_hb	fpc_hb	fpc_hb	fpc_hb
	fpc_ht	fpc_ht	fpc_ht	fpc_ht
	fpc_hs	fpc_hs	fpc_x2	fpc_hs
BND-500	fpc_5	fpc_5	fpc_5	fpc_x1*
	ssd_5	ssd_5	ssd_5	ssd_x

Table A.1: HXDS detector locations in XRCF testing phases. *Note that fpc_x1 (the original fpc_5) was not working during phase J

instrument	aperture	ap_size	A (cm ²)		A* (cm ²)	
fpc_5	fpc_5.1	1	.008518	± 4.26e-4	.008518	± 4.26e-4
fpc_5	fpc_5.4	4	.1142	± .0015	.1142	± .0015
fpc_5	fpc_5.12	12	1.023	± .0041	1.023	± .0041
fpc_5	fpc_5.36	36	9.216	± .0129	9.216	± .0129
fpc_hn	fpc_hn_full	full	32.2781	± .16	32.24	± .16
fpc_hn	fpc_hn_36	36	9.190	± .0129	9.14	± .05
fpc_hs	fpc_hs_full	full	32.2684	± .16	32.24	± .16
fpc_x2	fpc_hs_37	37	9.5965	± .0037	9.59	± .05
fpc_ht	fpc_ht_full	full	32.3048	± .16	32.24	± .16
fpc_hb	fpc_hb_full	full	32.2435	± .16	32.24	± .16
ssd_5	ssd_5.5000	5000	0.1958	± .003916	0.1958	± .003916
ssd_5	ssd_5.2000	2000	3.130e-2	± 6.260e-4	3.130e-2	± 6.260e-4
ssd_5	ssd_5.500	500	1.975e-3	± 3.950e-5	1.975e-3	± 3.950e-5
ssd_5	ssd_5.200	200	3.173e-4	± 6.346e-6	3.173e-4	± 6.346e-6
ssd_5	ssd_5.100	100	8.168e-5	± 1.6336e-6	8.168e-5	± 1.6336e-6

Table A.2: BND aperture areas. The ap_size column is the nominal diameter in mm, the ap.area column is the aperture area in cm², corrected for mesh transmission of 0.9025, except in the case of the fpc_5 1 mm aperture, which is centered in a 2 mm mesh cell, and so no mesh correction is appropriate. *The last column contains newly measured areas (see Table 3.2), not used in the present analysis, but in most cases not very different from the older values.

src	object	d (cm)	
eips	fpc_5	3743.3	± 0.5
eips	ssd_5	3819.9	± 0.6
eips	fpc_hn	52400.1	± 0.8
eips	fpc_hs	52431.6	± 0.8
eips	fpc_ht	52431.6	± 0.8
eips	fpc_hb	52431.6	± 0.8
eips	hrma_node	52752.2	± 0.4
eips	cap_datum_a	52750.385	± 0.4
eips	hrma_ent	52601.221	± 0.4
eips	acis	53752.2	± 30
eips	fpc_x2	53752.2	± 30
eips	fpc_x1	53752.2	± 30
eips	ssd_x	53752.2	± 30

Table A.3: Distances from XSS sources to HXDS and HRMA equipment in cm. From Project Science compilation. Note that the distances to the focal plane instruments are used only in the analysis of flat field data (phases I and J).