

**XMM-Newton**

XMM-SOC-CAL-TN-0033

**Calibration observations using OM***N. Loiseau , E. Verdugo*

06.04.2005

**This table is an updated list of observations of routine and non routine XMM-Newton instruments calibrators for which an OM observation was performed, including the OM modes and filters used**

Rev	Target	Prime Inst.	OM Filter	Mode	ODF	Objective	Comments
042	PKS 0558-504	EPIC	V, U , B Magnifier U VW1 U VM2 Blocked	Image Image Image Image FF Hgh	0119100201	-	-
045	PKS 0558-504	R GS	V	Image	0120300601	-	-
047	3C58	EPIC	V U VW1 U VM2 U VW2	Image	0102580601	-	-
047	3C58	EPIC	V U VW1 U VM2 U VW2	Image	0102580801	-	-
047	NGC 2516	EPIC	Blocked	Flat Low	0113890601	-	Engineering
048	A496	EPIC	V U VW1	Image	0095010901	-	-
048	A496	EPIC	V U VW1 U VM2 U VW2	Image	0095011101	-	-
048	A496	EPIC	V U VW1 U VW2	Image	0095011301	-	-
049	Hy ad es field	EPIC	V	Image	00948107 01	-	-
049	Hy ad es field	EPIC	B	Image	0094810201	-	-
051	R T Ser on ax is	OM	V, U , B VGrism VGrism U VW2 U VGrism	Image Image U ser Def Image Image	00997 50501	-	-
051	PKS0537	EPIC	U VW1 U VM2 U VW2	Image	0114090101	-	Science PV
052	V2416 SGR	OM	V, U , B VGrism VGrism U VM2 U VW2 U VGrism	Image Image U ser Def Image Image Image	0097 600201	-	-
053	Cap ella-10̄rcmin	R GS	Blocked	Flat Low Fu ll Hgh	0121500601	-	-
053	Cap ella-05̄rcmin	R GS	Blocked	Flat Low Fu ll Hgh	0121500301	-	-
053	Cap ella+05̄rcmin	R GS	Blocked	Flat Low Fu ll Hgh	0121500401	-	-
053	Cap ella+10̄rcmin	R GS	Blocked	Flat Low Fu ll Hgh	0121500201	-	-
054	Craboffax is	EPIC	Blocked	Flat Low	01219101-0301	-	-
059	EXO07 48-67	EPIC	U nknow n	Centrd Conf	0122320101	OM focu s test	-

059	EXO07 48-67	EPIC	V Magnifier	U ser Def Image	01223203/04/ 07 /08/09/11/12/ 13-01	-	-
061	GX13+1 offax is	R GS	Blocked	Flat Low	01223402/04-01	-	-
066	LMC X-3	EPIC	V, U, B U VW1 U VM2 U VW2	Image	0123310101	-	No PPS
07 0	Lockman Hble	EPIC	V, U White U VW1 U VW2	Image	01237 00101	-	Science PV
07 1	Lockman Hble	EPIC	V, B White U VW1 U VW2	Image	01237 00201	-	Science PV
07 4	Lockman Hble	EPIC	White U VW1 U VW2	Image	01237 00901	-	Science PV
07 6	N132D	EPIC	V, U, B U VW1 U VM2 U VW2	Image	0123910101	-	Science PV
081	Lockman Hble	EPIC	V, U White U VW1 U VW2	Image	01237 00901	-	Science PV
081	BPM 1627 4	OM	V, U, B VGrism U VW1 U VW2 U VM2	Image	0123920101	-	-
082	MS1229.2+6430	EPIC	V, U, B U VW1 U VW2	Image	0124900101	--	-
083	N132D	EPIC	V U VW1 U VW2	Image	0125100101	-	-
083	N132D	EPIC	V U VW1	Image	0125100201	-	-
083	N132D	EPIC	B U VW2	Image	0125100301	-	-
084	PKS0558-504	EPIC	V VGrism U VW1 U VW2	Image	0125110101	-	-
084	Mkn 421	R GS	Blocked	Fu ll Hgh Flat Low	0099280101	-	-
085	PSR 0540 on ax is	R GS	U VW1 U VM2 U VW2	Image	01251201/02-01	-	-
086	Coma 5	EPIC	U U VW1 U VW2	Image	01247 10501	-	Science PV
086	ComaCentre	EPIC	U U VW1 U VW2	Image	01247 11401	-	Science PV
087	PKS2155-304	EPIC	U VW1	Image	0124930101	-	Science PV
087	PKS2155-304	EPIC	U VW2	Image	0124930201	-	Science PV
088	Abell 2690	OM	V, U, B V, U, B White	Image U ser Def Image	0125310101	-	-
088	BPM 1627 4	OM	V U VGrism VGrism VGrism	U ser Def. Image Image U ser Def.	0125320301	-	-
088	BPM 1627 4	OM	U VGrism	Image	0125130101	-	Engineering
088	BPM 1627 4	OM	U VGrism	Image	0125140101	-	Engineering
088	BPM 1627 4	OM	U VGrism	Image	0125150101	-	Engineering
			V, U, B VGrism	Image Image			

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090	GD153	OM	VGrism U VW1 U VW2 U VM2 U VGrism	U ser Def. Image Image Image Image	0125910101	-	-
090	G158-100	OM	V, U, B VGrism VGrism U VW1	Image Image U ser Def Image	0125920201	-	-
092	NGC 2516	EPIC	Blocked	Fu ll High Flat Low	0126511201	-	-
093	Coma2cal	EPIC	Blocked	Flat Low	01247 116/02-01	-	Science PV
093	Coma9	EPIC	Blocked U U VW1	Flat Low Image Image	01247 10901	-	Science PV
093	Coma6	EPIC	U VW1 U VW2	Image	01247 10601	-	Science PV
093	Coma6	EPIC	U VW1	Image	01247 117 01	-	Science PV
094	3C27 3off-7min 3C27 3off-1.5min	R GS	V Blocked	Image Fu ll High	01267 001/02-01	-	-
094	3C 27 3	R GS	V, U, B VGrism U VW1 U VM2 U VW2 U VGrism	Image	01267 00301	-	-
095	3C27 3off+7min 3C27 3off+1.5min	R GS	V Blocked	Image Fu ll High	01267 004/05-01	-	-
095	3C 27 3	R GS	V, U, B VGrism	Image	01267 00601	-	-
095	3C 27 3	R GS	V, U, B U VGrism	Image	01267 007 01	-	-
096	3C 27 3	R GS	V, U, B VGrism U VW1 U VM2 U VW2 U VGrism	Image	01267 00801	-	-
098	Coma1cal	EPIC	Blocked	Flat Low	01247 11801	-	Science PV
098	Coma1cal	EPIC	U U VW1 U VW2	Image	01247 10101	-	Science PV
098	Coma10	EPIC	U VW1 U VW2	Image	01247 11001	-	Science PV
098	Coma Backgd	EPIC	V U VW1 U VW2	Image	01247 11501	-	Science PV
098	Coma Backgd	EPIC	U VW1	Image	01247 11901	-	Science PV
099	Coma4 & 7	EPIC	V U VW1 U VW2	Image	01247 104/07 -01	-	Science PV
099	Coma11	EPIC	U VW1 U VW2	Image	01247 11101	-	Science PV
101	Coma3	EPIC	V U VW1 U VW2	Image	01247 10301	-	Science PV
104	BPM 1627 4	OM	U VGrism	Image	0127 120101	OM eng. Test	Engineering
104	BPM 1627 4	OM	U VGrism	Image	0127 160101	OM eng. Test	Engineering
122	PSR 1509	EPIC	V VGrism	Image	0128120301	-	-
131	LBB 227	OM	V VGrism U VW1 U VM2 U VW2	Image Image U ser Def U ser Def Image	0129121101	OM grism calibration	-
137	PSR 1509	EPIC	V VGrism	Image	01281204/05-01	PN timing	-
140	N132D	EPIC	V U B	Image	01293403/04-01	EPIC contamination & gain monitoring	-
			V				

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148	N132D	EPIC	U B U VW2	Image	0129340601	EPIC contamination & gain monitoring	-
153	PKS0558-504	OM	V Magnifier Magnifier U VW1	Image U ser Def Image U ser Def	0129360201	OM fast mode tests + magnifier	-
162	AB Dor	R GS	Blocked	Fu ll Hgh Flat Low	01237 20301	R ou tine Calibration	-
164	NGC 2516	EPIC	Blocked	Flat Hgh Flat Low	0113891201	R ou tine Calibration	-
166	p il U rsae Majori	R GS	Blocked	Flat Low	0132121901	-	-
167	cfrs10h	EPIC	U VW1	Fu ll Hgh	0132122001	-	-
167	C10939+47 2	EPIC	U VW1	Fu ll Low	0132132401	-	-
168	Praesep e	EPIC	Blocked	Flat Low	0132122101	-	-
17 2	Anti-Leonid s	EPIC	Blocked	Fu ll Hgh Flat Low Flat Hgh	01325304/05-01	-	-
17 5	R XJ07 20-3125	EPIC	Blocked	Flat Low	0132122401	-	-
17 5	R XJ07 20-3125	EPIC	U VW2	Image	0132520301	R ep lacement of N132D, soft x -ray calibration. Non rou tine?	-
17 6	BPM 1627 4	OM	V V Magnifier	Image U ser Def U ser Def	0125320401	OM calibration	-
17 6	BPM 1627 4	OM	U VGrism	U ser Def	0125320501	OM calibration	-
181	Canop u s	R GS	Blocked	Flat Low	01327 212/13/ 14/15-01	-	Engineering
184	Coma2 & 8	EPIC	Blocked	Flat Low	01247 122/23-01	-	Science PV
184	Coma6	EPIC	U VW1 U VW2	Image	01247 12001	-	Science PV
184	Coma7 & 8	EPIC	V U VW1 U VW2	Image	01247 121/08-01	-	Science PV
185	AB Dor	R GS	Blocked	Flat Low	01331207 01	-	Engineering
185	AB Dor	R GS	Blocked	Fu ll Hgh	0133120101	-	Engineering
185	BPM 1627 4	R GS	V	Fu ll Hgh	0133120301	-	Engineering
185	AB Dor	EPIC	Blocked	Fu ll Hgh	0133120201	-	Engineering
185	BPM 1627 4	OM	V	Fu ll Hgh	0133120401	-	-
186	BPM 1627 4	OM	V Magnifier	U ser Def	0133520601	-	-
205	AB Dor	R GS	U VW1 U VM2 U VW2	Image	0134520301	R GS Wav elength calibration	-
209	NGC 2516	EPIC	Blocked	Flat Low	0134531201	R ou tine, p late-scale	-
209	NGC 2516	EPIC	Blocked	Flat Low	0134531301	-	-
212	EXO07 48-67 (5)	OM	V	Image	01345611/15-01	OM cal, v ignetting. Non rou tine.	-
213	SA95-42	OM	V Magnifier	U ser Def	0134920901	OM calibration. Non rou tine.	-
221	HR 1099	R GS	Blocked	Fu ll Hgh Flat Hgh Flat Low	0134540101	R GS Wav elength calibration	-
224	Sco X-1	R GS	V VGrism	Image	0134550501	R GS calibration	-
232	Cap ella	R GS	Blocked	Flat Low Flat Hgh	01347 20101	R GS Wav elength calibration	-
240	G21.5-09 offset1	EPIC	Blocked	Flat Hgh	01227 00801	EPIC far-off v ignetting. 0 s p erformed ? Ou t of FOV for MOS1 and p n. Non-rou tine.	-
244	G21.5-09 offset2	EPIC	Blocked	Flat Low	01227 01001	EPIC far-off v ignetting. Non-rou tine.	-
247	1ES0102-7 2	EPIC	V V Magnifier Blocked	U ser Def FFLow U ser Def FFLow	01357 20601	EPIC Monitoring Gain/offset	-
261	BPM 1627 4	OM	V, U , B U VW1 U VW2	Image+F Image FFLow	01253207 01	OM Calibration	-

17.04.2005			U VM2	Image	<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#5
266	AB Dor	R GS	U VW1 U VW2 U VM2	Image	01345207 01	R GS Wav elength calibration	-
277	3C27 3	R GS	V, U, B Blocked VGrism U VW1 U VM2 U VW2 U VGrism	FFLow	0136550101	R GS eff. Area	-
277	3C27 3	R GS	Blocked	FFHgh	0136550201	-	-
283	N132D	EPIC	B, U, V U VW2	Image	0129340801	EPIC gain/CTI	-
283	PKS0558-504	EPIC	V VGrism U VGrism	U ser Def FFLow FFLow	0137 550201	Single-boresight test. Non-rou tine	-
300	G153	OM	V, U, B	FFLow	0137 7 50101	OM p hotometry . Non-rou tine cal. target.	-
309	HR 1099	R GS	Blocked	Dark Low Flat Hgh	0134540401	R GS Wav elength calibration. GT sou rce.	-
310	HR 1099	R GS	Blocked	Flat Low Dark Low	0134540501	R GS Wav elength calibration. GT sou rce.	-
312	Cas A	EPIC	Blocked	Dark Low Flat Low	0137 550401	Hgh Energy cal. EPIC-p n. NR CO. GT sou rce.	-
312	Cas A	EPIC	V, U, B U VW1 U VM2 U VW2	FFLow	0137 550301	Hgh Energy cal. EPIC-p n. NR CO. GT sou rce.	-
329	Crab	EPIC	U, B U VW1 U VM2 U VW2	FFLow	0137 550501	Timing mod e cal. in MOS. CCD Charge Injection test. NR CO.	-
333	Crab Pu lsar	EPIC	U, B U VW1 U VM2 U VW2	FFLow	0137 550801	Bright timing mod e test w ith MOS manu ally . NR CO.	-
338	EXO07 48-67 6(5)	OM	V	FFLow	01345621/25-01	OM v ignetting/ large scale FF.	-
338	EXO07 48 on ax is	OM	Blocked	Flat Low	0134562601	OM v ignetting/ large scale FF.	-
338	AB Dor	R GS	Blocked	Flat L/H Dark L/H	0134521301	R GS Wav elength calibration	-
341	N132D	EPIC	B, V, U U VW2	Image	0129340901	EPIC gain/CTI	-
341	PKS0558-504	EPIC	V VGrism U VGrism	U ser Def	0137 550601	Single-boresight test. Non-rou tine. NR CO.	-
346	NGC2516	EPIC	Blocked	Dark Low Flat Hgh	0134531501	Plate-scale. Stability of boresight.	-
355	LBQ S2212-17 59	R GS	V U VM2 U VW2	FFHgh FFLow FFLow	0106660401	p n NR CO: Ex t. ff closed ex p osu re. GT sou rce.	-
357	HD 5980	EPIC	V, U, B VGrism	FFLow	0018540101	NR CO: OM p hot. cal. A01 target.	-
362	PKS2155-304	R GS	Blocked V, U, B U VW1 U VM2 U VW2 U VGrism	Dark Low Image FFHgh FFHgh FFHgh FFLow	0124930301	R GS eff. Area + x -cal EPICs. OM NR CO: new offset for U V Grism. GT, A01 targets.	-
364	ComaCentre	EPIC	U, B U VW1 U VW2	FFLow	01537 50101	p n NR CO: FFcal, soft x -ray ex cess.	-
367	Vela SNR	EPIC	U VW1 U VM2 U VW2	FFHgh	0137 550901	p n NR CO: FF/eFF p n x -cal (w av elength scale). GT sou rce.	-
369	BPM 1627 4	R GS	V, U, B U VGrism	U ser Def	0153950101	R GS NR CO: HTR obs. of an emp ty field .	Grism bad w ind ow d
			V, U, B U VW1			EPIC gain/CTI.	

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375	1ES0102-72	EPIC	U VM2 U VW2	FFLow	0135720801	GT sou rce.	-
375	AB Dor	R GS	Blocked	Flat Hgh Flat Low Dark Hgh	0134521401	R GS rou tine cal. & EPIC calclosed .	Solar flare. 7.5 ks R GS.
382	3C273	EPIC	V VGrism U VGrism	U ser Def FFLow FFLow	0137551001	Boresight test. Non-rou tine. GT sou rce.	-
393	Fei 16 offset	OM	U VW2	FFLow	0154150101	OM NR CO: z erop oints	-
402	Sco X-1 offset	R GS	U , B, V	FFLow	0153950201	R GS stray light. Non-rou tine	-
407	N132D	EPIC	V, U U VW1 U VW2	FFLow	0129341001	EPIC gain/CTI	-
407	SA 95	OM	V, U , B U VW1 U VW2	FFLow	0154150201	OM Photometry .	R ep lacing GD7 1
411	Crab Pu Isar	EPIC	U -no bar	Dark Hgh	0153750201	Timing calibration. Non-rou tine	-
411	Crab Pu Isar	EPIC	Blocked	Dark Hgh	01537503/04-01	Timing calibration. Non-rou tine	-
429	AB Dor	R GS	Blocked	Flat Hgh Flat Low Dark Hgh	0134521501	R GS rou tine cal.	-
433	1ES0102-72	EPIC	V, U , B U VW1 U VM2 U VW2	FFLow	0135720901	EPIC rou tine cal.	Solar flare
440	Mkn 421	R GS	Blocked	Flat HL Dark HL	01539506/07 / 08-01	R GS NR CO: offset in d isp ersion d irection.	-
442	Earth Limb test	EPIC	Blocked V	Intern Char Fu ll low	01549501/02-01	-	-
447	1ES0102-72	EPIC	V, U , B U VW1 U VM2 U VW2	FFLow	0135721001	EPIC rou tine cal.	Solar flare
448	Vela SNR	EPIC	Blocked V, U VGrism U VW1 U VM2 U VW2	Dark Hgh FFLow	0153750701	MOS cooling tests. GT sou rce.	-
450	PKS2155-304	R GS	Blocked V, U , B VGrism U VW1 U VM2 U VW2 U VGrism U VGrism	U ser Def FFLow FFLow FFLow FFLow FFLow Dark Hgh	0124930501	R GS rou tine cal. EPIC sw d ifferent filters GO target.	-
451	BPM 16274	OM	Blocked V, U , B VGrism U VW1 U VM2 U VW2 U VGrism	U ser Def	0125320801	OM rou tine p hot. cal.	-
456	Coma12	EPIC	U VW1 U VW2	Image	0124712401	-	-
457	Coma13	EPIC	U VW1 U VW2	Image	0124712501	-	-
462	HD 221996	R GS	VGrism U VGrism	U ser Def FFLow	0125910201	OM Grisms Wav elength	-
462	HD 224317	EPIC	VGrism U VGrism	U ser Def FFLow	0125910301	OM Grisms Wav elength	-
462	AB Dor	R GS	Blocked	Flat Hgh FFHgh Flat Low	0134521601	R GS rou tine cal	-
462	AB Dor	EPIC	Blocked VGrism U VW2 U VW2	U nknow n U nknow n Image Image+F	0155150101	Single boresight test	-

47 2	GD 153	R GS	V, U, B U VGrism U VW1 U VW2 U VM2 VGrism	U ser Def	0125910501	OM spectrop hotometry	-
47 4	N132D	EPIC	V, U U VW1 U VW2	FFLow	0129341101	EPIC gain/offset	-
47 4	HD 13499	EPIC	VGrism U VGrism	FFLow	0125910601	OM Grisms w av elength	-
47 6	HD 13499	EPIC	VGrism U VGrism	FFLow	0125910601	OM Grisms w av elength	-
47 7	HD 13499	EPIC	VGrism U VGrism	FFLow	0125910601	OM Grisms w av elength	-
489	BD +33 2642	R GS	U VGrism U VW1 U VW2 U VM2 VGrism	U ser Def	0155560301	OM U V flu x	-
490	GD 50	R GS	U VGrism U VW1 U VW2 U VM2 VGrism	U ser Def	0155560201	OM U V flu x	-
490	Hz 4	R GS	U VW1 U VW2 U VM2	U ser Def	0155560101	OM U V flu x	-
495	HR 1099	R GS	Blocked	FFHigh Flat HL	0134540601	R GS Wav elength scale	-
503	Hz 2	EPIC	V, U, B U VGrism U VW1 U VW2 U VM2 VGrism	U ser Def	0125910901	OM Grisms flu x	-
504	XTE J17 48-288	EPIC	V	U ser Def	0030540201	Test of the new p n masked ff mod e. GO Sou rce	-
505	3C58 west (P1)	EPIC	Blocked	Flat High Dark High	01537 52201	EPIC NR CO v ignetting	-
505	3C58 sw	EPIC	V U VW1	Fu ll Low	01537 51801	EPIC NR CO v ignetting	-
505	3C58 sou th (P2)	EPIC	V U VW1	Fu ll Low	01537 52501	EPIC NR CO v ignetting	-
505	3C58 east (P3)	EPIC	V U VW1	Fu ll Low	01537 52401	EPIC NR CO v ignetting	-
506	3C58 nw	EPIC	U VW2	Fu ll Low	01537 517 01	EPIC NR CO v ignetting	high rad iation
506	3C58 ne	EPIC	V U VW1	Fu ll Low	01537 51901	EPIC NR CO v ignetting	-
506	3C58 north1 (P4)	EPIC	U VW2	Fu ll Low	01537 52001	EPIC NR CO v ignetting	-
508	HD47 129	EPIC	Blocked	Dark Low Flat High	00017 30501	Test of the new p n masked ff mod e. GO Sou rce	-
508	3C 184	EPIC	U U VW1 U VM2	U ser Def	00285407 01	GO Sou rce	-
509	GX 339-4	EPIC	U VW2	Image	0111360201	p n masked ff mod e test GT Sou rce	-
521	1ES0102-7 2	EPIC	V, U, B U VW1 U VM2 U VW2	Fu ll Low	01357 21101	EPIC rou tine calibration (gain/offset & eff. area)	-
532	Mkn 421	R GS	Blocked	Inten char Flat high	0136540301 0136540401 0136540501 0136540601	R GS cooling d ow n obs.	Engineering
532	AB Dor	R GS	Blocked U VM2 U VW2	U ser d ef Image fast Image fast	0134521801	R GS cooling A observ ation	-
533	Vela SNR	MOS1	Blocked		01569601	MOS cooling observ ation	-

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533	R Xj 07 20.4-3125	MOS1	U B V grism U VW1 U VM2 U VW2	Fu ll Low	01569602	MOS cooling observ ation	
533	Canop u s				01569605	Star Tracker test	
534	Vela SNR	MOS1	Blocked V U V grism U VW1 U VM2 U VW2	Fu ll Low	01569603	MOS cooling observ ation	
534	R Xj 07 20.4-3125	MOS1	U B V grism U VW1 U VM2 U VW2	Fu ll Low	01569604	MOS cooling observ ation	
535	N132D	R GS	U VW1 U VM2 U VW2	Fu ll Low	0157 1603	NR CO: contamination monitoring	
535	Z eta Pu p p is	R GS	Blocked	Flat high Dark high	0157 1604	NR CO: contamination monitoring	Engineering
537	Mkn 421	R GS	Blocked	Inten char Flat high Dark high	01365407	R GS cooling B observ ation	Engineering
537	Mkn 421 offset	R GS	Blocked	Flat Low Dark Low	01365408	R GS cooling B observ ation	Engineering
537	Mkn 421 offset	R GS	Blocked	Flat Low Dark Low	01365409	R GS cooling B observ ation	Engineering
537	AB Dor	R GS	Blocked U VM2 U VW2	U ser d ef Image fast Image fast	01345217	R GS cooling B observ ation	
538	N132D	R GS	U VW1 U VM2 U VW2	Fu ll Low	0157 1606	NR CO: contamination monitoring	
538	Z eta Pu p p is	R GS	Blocked	Flat high Dark high Dark Low	0157 1605	NR CO: contamination monitoring	Engineering
552	1ES0102-7 2	EPIC	U VW1 U VM2 U VW2	Fu ll Low	01357 21301	EPIC rou tine calibration (gain/offset & eff. area)	-
552	N132D	R GS	U VW1 U VM2 U VW2	Fu ll Low	0157 161001	R GS & MOS NR CO, contamination monitoring	-
552	Z eta Pu p p is	R GS	Inten Char Flat Hgh Dark Hgh Flat Low	Blocked	0157 161101	R GS & MOS NR CO, contamination monitoring	Engineering
553	BPM1627 4	OM	Blocked V U B Vis. Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	0125320901	OM rou tine cal. : Sp ectrop hotometry	-
560	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def Image+F Image+F	0134522101	R GS Rou t.Cal.: w av elength scale	-
560	N132D	R GS	U U VW1 U VM2 U VW2	Fu ll Low	0157 360201	R GS & MOS NR CO: contamination monitoring	-
			U				



17.04.2005					<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#9
561	R BS1223	R GS	U VW1 U VM2 U VW2	Fu ll Low	0157 360101	R GS & MOS NR CO: contamination monitoring	-
561	GD153	R GS	Blocked V U B Vis. Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	0125911101	OM R ou t.Cal.: Grism flu x & throu gh u t	-
563	3C 27 3	PN	Vis grism U VW1 U VM2 U V Grism	U ser Def	0136550501	Cross Cal. (coord inated w ith Integral & XTE)	-
563	3C 27 3	PN	U V Grism	U ser Def	01127 7 07 01	R ou tine Cal.	Science PV
563	NGC5204 X-1	EPIC	V, U, B U VW1 U VM2 U VW2	Fu ll Low	01427 7 0101	EPIC rou tine calibration (d ed icated calcl., p arael to sci.)	Science PV
569	N132D	R GS	U U VW1 U VM2 U VW2	Fu ll Low	0157 360301	R GS & MOS NR CO: contamination monitoring	-
569	R XSJ160518.8+32	R GS	U Vis. Grism U VW1 U VM2 U VW2 U V Grism	Fu ll Low	0157 360401	R GS & MOS NR CO: contamination monitoring, p arael to sci	Science PV
57 2	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def. Image+F Image+F	0134522201	R GS R ou t.Cal.: w av elength scale	-
581	G153	PN	U VW1 U VM1 U VW2	Fu ll Low	0157 7 7 1001	OM R ou t.Cal.: p hotometry U V colou r transformation	-
583	GL49	R GS	U VW1 U VM1 U VW2	U ser Def	0137 7 50201	OM R ou t.Cal.: U V red leak	-
587	G166_ WING_ N	PN	U VW1 U VM1 U VW2	Image	0145500101	EPIC R ou t.Cal., in p arallel w ith science	Science PV
587	N132D	R GS	U VW1 U VM1 U VW2	Fu ll Low	0157 360501	R GS and EPICS contamination monitoring	-
589	R XSJ160518.8+32	R GS	U V Grism U VW1 U VM2 U VW2 U V Grism	Fu ll Low	0157 360601	R GS and EPICS contamination monitoring	-
592	Sco X-1 large offset	R GS	U U VW1 U VM2	Fu ll Low	0153950901	R GS NR CO, p n p artly noise mod e	-
598	A3266_ f6	PN	Blocked	Int Char Dark Low Dark Hgh	0105262401	EPIC R ou t.Cal., in p arallel w ith science	Science PV
598	A3266_ f6	PN	U VW1	Image	0105262501	EPIC R ou t.Cal., in p arallel w ith science	Science PV
605	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def. Image+F Image+F	0134522301	R GS rou tine cal., w av elength scale	-
606	N132D	R GS	U Blocked U VW1 U VM1 U VW2	Fu ll Low Int Char Fu ll Low Fu ll Low Fu ll Low	0157 3607 01	R GS and EPICS contamination monitoring	-
611	G10_ T1	PN	U VW2	Image	0145841001	p artly EPIC rou tine cal., in p arallel w ith science	Science PV
611	G10_ T1	PN	V U U VW1 U VM2 U VW2	Image	01458401	p artly EPIC rou tine cal., in p arallel w ith science	Science PV
616	1ES0102-7 2	PN	U	Fu ll Low	01357 214	EPIC R ou t.Cal.: eff. area, Gain/Offset	-

17.04.2005			B U VW1 U VM2 U VW2		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#10
621	NGC 2403	PN	U U VW1 U VW2	Image	01506511	partly EPIC R ou t.Cal., in p arallel w ith science	Science PV
621	MS1229.2+6430	PN	V U B V Grism U VW1 U VM2 U VW2	Fu ll Low	01585603	EPIC R ou t.Cal.: sp ectral cap ab. & contamination	-
622	R JX 07 20.4-3125	PN	V U B V Grism U VW1 U VM2 U VW2	Fu ll Low	01583602	MOS soft resp onse and Contamination Monitoring	-
636	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def. Image+F Image+F	01345224	R GS R ou t.Cal.: w av elength scale	-
642	Feige 67	PN	U VW1 U VM2 U VW2	U ser Def	01555607	OM R ou t.Cal: U V flu x calibration	-
642	Feige 66	PN	U VW1 U VM2 U VW2	U ser Def	01555609	OM R ou t.Cal: U V flu x calibration	-
644	BPM1627 4	OM	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01253210	OM R ou t.Cal: Grism flu x & throu gh p u t	-
644	Feige 110	PN	U VM2 U VW2	U ser Def	01555608	OM R ou t.Cal: U V flu x calibration	-
647	Vela SNR	MOS1	U U VW1 U VM2	Fu ll Low	01597 601	EPIC R ou t.Cal: effectiv e area, gain/offset	-
655	N132D	PN	V U U VW1 U VM2	Fu ll Low	01293412	EPIC R ou t.Cal: effectiv e area, gain/offset	-
655	3C27 3	R GS	V U B V Grism U VW1 U VM2 U VW2 U V Grism	Fu ll Low	01599601	NR CO#20: XMM-New ton - Chand ra cross-calibration	-
655	3C27 3	PN	U V Grism	U ser Def	01127 7 05	NR CO#20: XMM-New ton - Chand ra cross-calibration	-
657	HD13499	OM	U V Grism	Fu ll Low	01259114	OM R ou t.Cal: U V Grism w av elength calibration	-
657	HD13499-offset	OM	U V Grism	Fu ll Low	01259113	OM R ou t.Cal: U V Grism w av elength calibration	-
658	GD153	R GS	Blocked V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01259112	OM R ou t.Cal: throu gh p u t monitoring	-
668	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def. Image+F Image+F	01603625	R GS R ou t.Cal: w av elength scale (PA=26.95)	-
668	AB Dor	R GS	Blocked U VM2 U VW2	U ser Def. Image+F Image+F	01603626	R GS R ou t.Cal: w av elength scale (PA=60.0)	-
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7.04.2005				<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>			#11
675	H <sub>z</sub> 2	OM	U B V Grism U VW1 U VM2 U VW2 U V Grism	User Def	01259115	OM R ou t.Cal: Vis. Grism w av elength calibration	-
682	BY Cam	R GS1	U VW1	Image+F	01485012	p artly EPIC R ou t.Cal. (observ ed also for Science in rev s. 314, 683 685, 7 04)	Science PV
683	G 191 B2B	R GS1	U VW1 U VM2 U VW2	User Def	01541504	OM U V flu x calibration	
684	T Tau	R GS1	U VW1	User Def	01555611	OM R ou t.Cal.: U V flu x calibration	
688	Sco X-1 large off.	R GS1	U Vis. Grism U VW1 U VM2	Fu ll Low	01539510	Sco X-1 large offset: NR CO#21:	
689	N132D	R GS1	V U U VM2	Fu ll Low	01293413	EPIC R ou t.Cal.: eff. area, Gain/Offset	
690	OMC2/3	p n	U VW2 U VW2 U VW2	Fu ll Low	01345317	EPIC R ou t.Cal.: stability of boresight	
698	Crab	p n	U VW1 U VM2 U VM2 U VM2	Fu ll Low Fu ll Low Fu ll Low User Def	01609602	NR CO#22: Timing v erification	
7 00	Crab	p n	U U VW2	Fu ll Low	01609603	NR CO#22: Timing v erification	
7 05	NGC 67 12	R GS1	V U U VW1 U VM2 U VW2	Fu ll Low	01541505	OM: p hotometry in p arallel NR CO#23: Testing the Highest R esolu tion R GS Sp ectroscop y	Science PV
7 09	AB Dor	R GS1	U VM2	Image+Fast	01603627	R GS R ou t. Cal.: w av elength scale	
7 11	1ES0102-7 2	p n	U VW2	Fu ll Low	01357 215	EPIC R ou t. Cal.: eff. area, gain/offset	
7 11	R XJ 07 20.4-3125	p n	V U B U VW1 U VM2 U VW2 U VW2 U VW2 U VW2	User Def	01619602	NR CO#25: Fu rther MOS low energy contamination monitoring	
7 11	0848+1119	p n	U VW1 U VW2	OM image	01487 425	EPIC R ou t. Cal.	Science PV
7 18	Vela SNR obs1.1	p n	V	Fu ll Low	01623601		
7 18	Vela SNR obs1.2	p n	V	Fu ll Low	01623602		
7 18	Vela SNR obs1.3	p n	V	Fu ll Low	01623603	also 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4, 2.5	
7 21	1ES0102-7 2	p n	B U VM2	Fu ll Low	01357 217		
7 24	PKS2155-304	R GS1	U U VW1 U VM2 U V Grism	Fu ll Low	01589601		
7 25	HDF-r7 35	p n	U VW1 U VM2	Fu ll Low	01621602	EPIC NR CO#24: Heliosp heric backgrou nd calibration	
7 25	SEP-r7 35	p n	U VW1 U VM2	Fu ll Low	01621601	EPIC NR CO#24: Heliosp heric backgrou nd calibration	
7 30	LTT 9491	R GS1	V U B V Grism U VW1 U VM2 U VW2 U V Grism	User Def	01541506	OM R ou t.Cal.: Grism flu x & throu gh p u t	
7 31	SEP-r7 31	p n	U VW1 U VM2	Fu ll Low	01621603	EPIC NR CO#24: Heliosp heric backgrou nd calibration	
7 31	HDF-r7 31	p n	U VW1	Fu ll Low	01621604	EPIC NR CO#24: Heliosp heric backgrou nd calibration	

17.04.2005			U VM2		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#12
7 32	BPM1627 4	OM	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01253211	OM R ou t.Cal.: Grism flu x & throu ghp u t	
7 32	AB Dor	R GS1	U VM2 U VW2	OM image+fast	01603628	R GS R ou t.Cal.: w av elength scale	
7 35	SEP-r7 35	p n	U VW1 U VM2	Fu ll Low	01621605	EPIC NR CO#24: Heliosp heric backgrou nd calibration	
7 35	HDF-r7 35	p n	U VW1 U VW1 U VM2 U VM2 U VW2	Fu ll Low	01621606	EPIC NR CO#24: Heliosp heric backgrou nd calibration	
7 40	N132D	p n	U VM2	Fu ll Low	01293414	EPIC R ou t.Cal.: eff. area, Gain/Offset	
7 40	Vela SNR obs4	p n	V	Fu ll Low	01623631	EPIC R ou t.Cal.: eff. area, gain, offset	
7 40	Vela SNR obs3	p n	V	Fu ll Low	01623627	EPIC R ou t.Cal.: eff. area, gain, offset	
7 43	R BS1223	p n	U U VW1 U VM2 U VW2	Fu ll Low	01635601	MOS low energy contamination monitoring 2	
7 44	NGC 447 2	p n	U	OM image	02001301	EPIC R ou t. Cal.: d ed icate <del>s</del> d <del>o</del> sed /calclosed	Science PV
7 49	CHAI - FIELD 1	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	02000301	EPIC R ou t. Cal.: d ed icate <del>s</del> d <del>o</del> sed /calclosed	Science PV
7 59	SA95-42	OM	V U B U VW1 U VM2 U VW2	Fu ll Low	01349210	OM R ou t. Cal.: p hotometry	
7 66	HR 1099	R GS	Blocked	Inten char Flat high Dark high Flat low	01345407	R GS R ou t. Cal.: w av elength scale EPIC R ou t. Cal.: MOS CCD Diagnostic	Engineering
7 7 1	N132D	p n	U VM2	Fu ll Low	01293415	EPIC R ou t.Cal.: eff. area, Gain/Offset	
7 80	HD826	p n	U V Grism U VW1 U VM2 U V Grism	U ser Def	01259118	OM R ou t. Cal.: grism calibration	
7 80	Hz 2	p n	B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01259117	OM R ou t. Cal.: grism calibration	
7 80	HZ 15	p n	U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01641602	OM NR CO#32: absolu te flu x calibration	
7 90	R L 152	p n	V U B U VW1 U VM2 U VW2 U V Grism	U ser Def	01643601	OM NR CO#32: absolu te flu x calibration	
7 90	NGC 2392	p n	U U VW1 U VM2	Fu ll Low	02002403	EPIC R ou t. Cal.: d ed icate <del>s</del> d <del>o</del> sed /calclosed	
7 95	z eta Pu p p is	R GS1	Blocked	Int. Char Flat High Flat Low	01593603	R GS R ou t. Cal.: long-w av elength sensitiv ity in p arallel p artly d iagnostic <del>x</del> 1 (op t. load ing)	
802	R X CJ0616.8-47 48	p n	U VW1	OM Image	02019011	EPIC R ou t. Cal.: d ed icate <del>s</del> d <del>o</del> sed /calclosed	

17.04.2005			U VM2	<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>			#13
803	IES0102-7 2	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	01357 219	EPIC R ou t. Cal.: eff. area, Gain/Offset	
807	Mkn 421	R GS	Blocked	Int. Char Flat High Dark high	015897 12	R GS R ou t. Cal.: effectiv e area	
809	R X J0513.9-6951	p n	U VW2	Fu ll Low	01514124	EPIC R ou t. Cal.	Science PV
812	SA 113-339	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01651601	OM NR CO#32 (p art 4): absolu te flu x calibration	
817	BPM1627 4	OM	Blocked V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01253212	OM R ou t. Cal.: p hotometry	
817	GEN +6.20035026	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01651602	OM NR CO#32 (p art 3)	
820	SA 114-531	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01651603	OM NR CO#32 (p art 5): absolu te flu x calibration	
822	G163-51	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01651604	OM NR CO#32 (p art 6): absolu te flu x calibration	
827	HIP 60186	p n	V U B V Grism U VW1 U VM2 U VW2	U ser Def	01651605	OM NR CO#32 (final p art 7 ): absolu te flu x calibration	
828	N132D	p n	U VM2	Fu ll Low	01293416	EPIC R ou t. Cal.: eff. area, gain/offset	
831	GD153	R GS1	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01259119	OM R ou t. Cal.: throu gh p u t & Grism calibration	
835	d u mmy	p n	Blocked	Flat Low	01365509	EPIC R ou t. Cal.	
835	3C 27 3	R GS1	V U B V Grism U VW1 U VM2 U VW2	U ser Def	01365508	XMM/Chand ra cross-calibration	

17.04.2005			U V Grism		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#14
836	Cas A	R GS1	V U B U VW1 U VM2 U VW2	Fu ll Low	01655601	EPIC R ou t. Cal.	
840	GD 153	p n	V U B V Grism U VW1 U VM2 U VW2 U VGR ISM_ 93 U V Grism	Fu ll Low	016557 01	NR CO#35: EPIC soft-energy cross-cal./OM U V Grism offset test	
845	HD13499-offset 1	p n	V U V Grism	U ser Def Fu ll Low	01259121	OM R ou t. Cal.: U V GR ISM w av elength	
845	HD13499-offset 2	p n	V U V Grism	U ser Def Fu ll Low	01259122	OM R ou t. Cal.: U V GR ISM w av elength	
850	IR AS 03359+1523	p n	U U VW1	Fu ll Low	02033914	EPIC R ou t. Cal.	Science PV
852	HI426+428	R GS	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01657 7 01	NR CO#36: XMM-New ton cross-calibration (st p art)	
853	HI426+428	R GS	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01657 7 02	NR CO#36: XMM-New ton cross-calibration (nd p art)	
854	EXO07 48 onax is	OM	V	Fu ll Low	01345627	OM R ou t. Cal.: p hotometry (p ointing 1 of 5)	
854	EXO07 48-67 6 off1	OM	V	Fu ll Low	01345628	OM R ou t. Cal.: p hotometry (p ointing 2 of 5)	
854	EXO07 48-67 6 off2	OM	V	Fu ll Low	01345629	OM R ou t. Cal.: p hotometry (p ointing 3 of 5)	
854	EXO07 48-67 6 off3	OM	V	Fu ll Low	01345630	OM R ou t. Cal.: p hotometry (p ointing 4 of 5)	
854	EXO07 48-67 6 off4	OM	V	Fu ll Low	01345631	OM R ou t. Cal.: p hotometry (p ointing 5 of 5)	
857	HR 1099	R GS	BLOCKED	Inten Char Flat Hgh Dark Hgh Flat Low	01345408	R GS R ou t. Cal.: w av elength scale	
864	CIZ AJ1454.8-4312	p n	U VW1	Fu ll Low	02047 111	EPIC R ou t. Cal.	Science PV
87 0	N132D	p n	U VW1 U VM2	Fu ll Low	0137 5511	NR CO#31: PN Large Wind ow fast CTI d etermination	
87 0	N132D	p n	V B U VM2 U VW2	Fu ll Low	0137 5512	NR CO#31: PN Large Wind ow fast CTI d etermination	
87 1	Cap ella	R GS	BLOCKED	Inten Char Flat Hgh Dark Hgh	01347 215	XMM-Chand ra cross calibration	
87 2	Hz 2	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	01259123	OM R ou t. Cal.: op tical Grism w av elength	
87 4	Crab	p n	U VW1	Fu ll Low	01609604	EPIC R ou t. Cal.: check of relativ e & absolu te timing	
87 4	Crab	p n	U VM2	Fu ll Low	01609605	EPIC R ou t. Cal.: check of relativ e & absolu te timing	
87 4	Crab	p n	U VW2	Fu ll Low	01609606	EPIC R ou t. Cal.: check of relativ e & absolu te timing	
87 5	G24.3+0.0	p n	U U VW1 U VM2	Fu ll Low	02038502	EPIC R ou t. Cal.: check of relativ e & absolu te timing	Science PV
87 8	R XJ1856.6-37 54	p n	V	Fu ll Low	016597 16	EPIC R ou t. Cal.	Science PV

17.04.2005			U B U VW1 U VM2 U VW2		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#15
878	R XJ1856.6-3754	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	01659717	EPIC NR CO#34: R efinement of p n-CTI correction	Science PV
885	3C 390.3	p n	U U VW1 U VM2 U VW2	Fu ll Low	02037202	EPIC R ou t. Cal.	Science PV
887	G110-499	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02110801	NR CO#39: The absolu te Flu x calibration of OM	
888	1ES0102-72	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	01357224	NR CO#37 : U se of a single R GS2 ADC	
889	3C 390.3	p n	U U VW1 U VM2 U VW2	Fu ll Low	02037203	EPIC R ou t. Cal.	Science PV
894	1ES0102-72	p n	V B U VW1 U VM2	Fu ll Low	01357220	NR CO#38 (1st p art) 4 p ointing raster of ES0102	
895	R XCJ0605.8-3518	p n	U VW1 U VM2	OM image	02019010	EPIC R ou t. Cal.	Science PV
897	Vela SNR	MOS1	V U V Grism U VW1 U VM2 U VW2	Fu ll Low	01597602	EPIC R ou t. Cal. sp ectral cap abilities	
900	1ES0102-72	p n	U VW1 U VM2	Fu ll Low	01357221	NR CO#38 (2d p art) also EPIC R ou t. Cal	
900	1ES0102-72	p n	V B U VW1 U VM2	Fu ll Low	01357222	NR CO#38 (3d p art) also EPIC filter test	
900	1ES0102-72	p n	V B U VW1 U VM2	Fu ll Low	01357223	NR CO#38 (last p art)	
900	SA101-207	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02110803	NR CO#39: Absolu te Flu x calibration of OM (p art 2/6)	
903	z eta Pu p p is	R GS	Blocked	Int. Char. Flat Hgh Dark Hgh	01593604	R GS R ou t. Cal. also EPIC R ou t. Cal.	
905	COSMOS FIELD 8	p n	U VW1	OM image	02033608	EPIC R ou t. Cal.	Science PV
908	PKS2155-304	R GS	V U B	Fu ll Low	01589609	XMM-New ton/Chand ra cross-calibration	
908	PKS2155-304	R GS	B U VW1 U VM2 U VW2	Fu ll Low	01589610	XMM-New ton/Chand ra cross-calibration	
908	BPM16274	OM	Blocked	U ser Def	01253213	OM R ou t. Cal.: throu gh p u t	

17.04.2005			V U B V Grism U VW1 U VM2 U VW2 U V Grism	<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>			#16
909	N132D	p n	V U VW1 U VM2 U VW2	Full Low	02106812	SCOS 2000 "all mode test" revolution	
909	N132D	p n	V U B U VW1 U VM2 U VW2	User Def	02106813	SCOS 2000 "all mode test" revolution	
909	N132D	p n	Blocked	Flat Low Flat High	02106814	SCOS 2000 "all mode test" revolution	
910	AB Dor	R GS	U VM2 U VW2	OM Image+F	01603629	R GS R out. Cal.	
914	PKS 2351-154	p n	V U B U VW1 U VM2 U VW2 V Grism U V Grism	OM Image  User Def	02032402	EPIC R out. Cal.	
920	dummy	p n	BLOCKED	Flat High	02118830	EPIC R out. Cal.	
921	strS 37 1	p n	V U V Grism U VW1 U VM2 U VW2	User Def	02120801	NR CO#40: The OM UV red leaks (part 1/5)	
922	N132D	p n	V U VM2	Full Low	01293417	EPIC R out. Cal.	
923	G104-337	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	User Def	02110805	NR CO#39: The absolute Flux calibration of OM (part 3/6)	
924	dummy	p n	BLOCKED	Int. Char. Flat High	02118831	EPIC R out. Cal.	
925	GJ 455	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	User Def	02110806	NR CO#39: The absolute Flux calibration of OM (part 4/6)	
926	StrS 37 5	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	User Def	02120802	NR CO#40: The OM UV red leaks (part 2/5)	
928	HZ 43	R GS	V U B V Grism U VW1 U VW2	User Def	02120901	NR CO #42: XMM/Swift cross-calibration	
930	GD153	p n	BLOCKED V U B V Grism	User Def	02122820	OM R out. Cal.: throughput & Grism calibration	



17.04.2005			U VW1 U VM2 U VW2 U V Grism		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#17
933	HD13499	p n	U V Grism	U ser Def	02122824	OM R ou t. Cal.	
933	SA105-599	p n	V U B U V Grism	U ser Def	02110804	NR CO#39: The absolute Flux calibration of OM (p art 5/6)	
939	HI426+428	R GS	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02120902	NR CO#43: XMM/Soft cross-calibration	
940	N132D	p n	V U VW1 U VM2 U VW2	Fu ll Low  Dark Hgh	02106816	SCOS 2000 Tele Command test	
940	N132D	p n	V U B U VW1 U VM2 U VW2	U ser Def   OM Image	02106817	SCOS 2000 Tele Command test	
940	N132D	p n	BLOCKED	Flat Hgh	02106818	SCOS 2000 Tele Command test	
940	N132D	p n	BLOCKED	Dark Low	02106819	SCOS 2000 Tele Command test	
942	HR 1099	R GS	BLOCKED	Int Char Flat Hgh Dark Hgh Flat Low	01345409	R GS R ou t. Cal.	
952	N132D	p n	V U U VW1 U VM2	Fu ll Low	01293418	EPIC R ou t. Cal.	
954	N132D	p n	V U VW1 U VM2 U VW2	Fu ll Low  Dark Hgh	02106823	SCOS 2000 sy stem v alid ation (all mod es test)	
954	N132D	p n	BLOCKED	Flat Low Flat Hgh	02106824	SCOS 2000 sy stem v alid ation (all mod es test)	
955	Crab	p n	U VW1	Fu ll Low	01609607	EPIC R ou t. Cal.	
955	Crab	p n	U VM2	Fu ll Low	01609608	EPIC R ou t. Cal.	
955	Crab	p n	U VW2	Fu ll Low	01609609	EPIC R ou t. Cal.	
958	N132D	p n	U VM2 U VW2	Fu ll Low Dark Hgh	02106827	SCOS 2000 sy stem v alid ation (all mod es test)	
958	N132D	p n	BLOCKED	Flat Low Flat Hgh	02106828	SCOS 2000 sy stem v alid ation (all mod es test)	
959	Hz 2	R GS	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02122825	OM R ou t. Cal.	
960	WR 108	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02120804	NR CO#40: The OM U V red leaks (p art 3/5)	
960	COMPTEL J1410-64	p n	U U VW1 U VM2	Fu ll Low	02040101	EPIC R ou t. Cal.	Science PV
968	LHS451	p n	V U B V Grism U VW1	U ser Def	02120803	NR CO#40: The OM U V red leaks (p art 4/5)	

17.04.2005			U VM2 U VW2		<a href="http://xmm.vilspa.esa.es/external/OM_CAL.html">http://xmm.vilspa.esa.es/external/OM_CAL.html</a>		#18
968	WR 110	p n	V U B V Grism U VW1 U VM2 U VW2 U V Grism	U ser Def	02120805	NR CO#40: The OM U V red leaks (p art 5/5)	
968	R XJ1856.6-37 54	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	016597 19	EPIC R ou t. Cal.	
97 0	HD 5980	p n	V U B U VW1 U VM2 U VW2	Fu ll Low	02122826	OM R ou t. Cal.	Science PV
97 1	Cap ella	R GS	BLOCKED	Inten Char Flat Hgh	01347 216	XMM-New ton R ou t. Cal.	
97 2	Cap ella	R GS	BLOCKED	Inten Char Flat Hgh	01347 217	XMM-New ton R ou t. Cal.	