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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 11/12 January 2007

Telescopio: 2.1m

Lámpara de Calibración

Observadores: Bob O'Bell, Will Henney, Yilen Gómez Magaña

Instrumento: MES

Detector: Site 3

Ganancia: 4

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A.R.	DEC.	EPOCA	FOCO TEL./ FOCO COЛИM.	SLIT TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
05001	7h Ar		frithm ~2.8		/2572		0	Hα	10:39		200	Bin 1x2
05002	7h Ar		~2.7		/ "		0	SII	10:59		200	"
05003	"		~2.7		/ "		"	OIII	11:09		"	
05004	"		"		/ "		"	P4	11:17		"	no filter
05005	Tungsten				70			Hα	11:24		300	- ok
05006	"				"	"	"	"	11:31		"	ok
05007	Tungsten				"	"	"	"	11:39		"	
05008-05012	bias								11:45			bias
05013	pointing				no slit		"		1:38		1	mirrar in
014	"				"		"		1:42		1	"
015	"				"		"		1:45		"	"
016	"				"		"		1:46		"	"
017	focns		mag 5		"		"		1:51		1	bin: 2x2 sat.
018	"		"		"		"		1:52		2	" saturated
019	"		mag 6.8		"		"		1:55		1	mirror in bin 2x2
020	"	03 28 58.9	+11 25 44	2007	11.9 /	"	1.19=AM	"	1:58		0.5	Fwhm 4.96
021	"	"	"		11.1 /	"	"		2:00		"	Saturated
022	"	"	"		11.1 /	"	"		2:01		0.1	Fwhm 4.25
023	"	"	"		10.7 /	"	"		2:03		"	Fwhm 3.94
024	"	"	"		10.3 /	"	"		2:04		"	" 3.28
025	"	"	"		9.7 /	"	"		2:06		"	" 3.62
026	"	"	"		9.2 /	"	"		2:08		"	" 2.91
027	"	"	"		8.7 /	"	"		2:09		"	" 3.42
028	"	"	"		8.2 /	"	"		2:10		"	" 4.95

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 11/12 January 2007

Observadores: Bob O'Dell, Will Henney, Yilen Gómez Magrero

Telescopio: 21 m

Instrumento: MES

Detector: Stc-3

Ganancia: 7

Lámpara de Calibración

Rendija/Máscara:

Rejilla:

ESPECTRO NO. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	TEMP. slit	★ INCL. REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
05029	focus	03 28 58.9	+11 25 24	2007	10.0/			Hα	2:11		0.1	fwhm 3.72
030	"	"	"	"	9.7/			"	2:12		"	" 3.01
031	"	"	"	"	9.4/ ←			"	2:14		"	" 2.79
032	"	"	"	"	9.2/			"	2:15		"	" 3.49
033	adquisition	05 35 27.0	-5 21 49	"	9.2/			"	2:19		0.5	bin 2x2
034		05 35 27.0	-5 22 16	"	9.3/			"	2:25		5	"
035	"	"	"	"	9.3/			SII	2:28		5	"
036	Image-slit	"	"	"	9.3	70		"	2:37		100	bin 1x1
037	Image-slit	05 35 28.	-5 22 50		9.3				:47		100 s	slit spectrum
037	Image-slit	05 35 28	-5 22 50	N 1" slit from star	9.3	70	fwhm~6.5	"	2:49	star X 545.5px	100	slit star 583 y 465.4 pix
038	spectrum	" 29.0	" 52		"		AM=1.8	Hα	2:56	2:36	300	bin HA 1x2-2 59 21.0
039	"				"			"	3:02		300	
040	arc seq.								3:10		200	
041	Image-slit	" 29.9	55		9.4	70		Hα	3:13	50" slit from star	100	bin 1x1
042	spectrum	30.0	56		"			"	3:19		300	bin 1x2
043	"	"	"		"			"	3:25		300	
044	arc seq.	"	57		"			Hα	3:30	51" slit from star	200	
045	Image-slit	"	59		"		fwhm~7.6	SII	3:36		100	bin 1x1
046	spectrum	31.0	59		9.3		# AM=1.51	Hα	3:41		300	bin 1x2
047	"	"	"		9.4		AM=1.49	"	3:46		"	
048	arc seq.	"	-5 23 00		"		1.46	"	3:52		200	
049	focus	"	"					SII	3:58	error	0.1	bin 2x2 " slit
050	focus	" 32	" 00		9.4		fwhm~4.39	SII	3:58		0.1	2x2 min 101 in ut
051	"	"	" "		8.9		~4.18	"	4:01		"	

OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 11/12 January 2007

Telescopio: 2.1 m

Observadores: Bob O'Dell, Will Henneny, Yilen Giomey Magno

Instrumento: MES

Detector: Site 3

Ganancia: 4

Lámpara de Calibración

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL/ FOCO COLIM.	SLIT TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
05058	focus	05 35 32.0	-05 23 01	207.0	8.5	-	FWHM ~3.69	SII	4:03		0.1	2x2 mirror slit a
053	"	"	"		8.0	-	~4.0	"	4:05		"	"
054	Image slit	"	"		8.1	70		"	4:08	52" slit from star	100	2000 1x2
055	"	"	03		"	"	~8.1	"	4:13	"	100	1x1
056	spectrum	"	"		"	"		H α	4:17		300	1x2
057	"	"	"		"	"		"	4:22		300	
058	arc seq	33.0	"		"	"		"	4:28		200	
059	Image slit	"	04				FWHM ~6.7	SII	4:34	53" slit from star	100	1x1 shift 1"s
060	spectrum	"	05		"	"		H α	4:39		300	1x2
061	"	"	"		"		MA ~1.31	"	4:45		"	
062	arc seq	"	06		"		MA = 1.30	"	4:51		200	
063	Image slit	"	07		"		FWHM ~8.0	SII	4:57	54" slit from star	100	1x1 shift 1"s
064	spectrum	"	"		"		MA = 1.28	H α	5:01		300	1x2 Wind #1 kpl SSE
065	"	"	08		"		MA = 1.27	"	5:07		300	
066	arc seq	"	"		"	"		"	5:13		200	
067	Image slit	"	09		8.1		FWHM ~6.9	SII	5:18	55" slit from star	100	1x1 51 kpl SSE
068	spectrum	"	"		"			H α	5:23		300	1x2
069	"	34.0	"		8.2			"	5:28		"	
070	arc seq	"	"		8.0		MA = 1.25	"	5:34		200	
071	Image slit	"	10		8.0		FWHM ~6.9	SII	5:40	56" slit from star	100	1x1
072	spectrum	"	"		"		MA = 1.24	H α	5:45		300	1x2
073	"	"	09		"		"	"	5:51		"	
074	arc seq	"	"		8.1			"	5:56		200	
075	Image slit	34.0	10		"		FWHM ~6.4	SII	6:02	57" slit from star	100	1x1

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 11/12 January 2007

Observadores: Bob O'Dell, Will Henney, Yilén Gómez Magno

Telescopio: 2.1 m

Instrumento: MES

Detector: Site 3

Ganancia: 7

Lámpara de Calibración

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A.R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	Slit TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS	
									T. U.	T. S.			
08076	Spectrum	05 35 33.9	-5 23 09	2007.0	8.1	70	MA 1.24	H α	6:07		300	1x2	
077	"	" 34.0	"		"		MA 1.25	"	6:13		"		
078	arc seq							"	6:18		200		
079	Image slit	33.0	"		8.2		FWHM ~ 7.2	SII	6:24	58" slit from star	100	1x1	
080	spectrum	34.0	"		"			H α	6:28		300	1x2	
081	"	"	"		"		MA 1.26	"	6:34		"		
082	arc seq							"	6:40		200		
083	Image slit	"	"		"		FWHM ~ 6.4	SII	6:45	59" slit from star	100	1x1	
084	spectrum	"	"		"		MA 1.28	H α	6:50		300	1x2	
085	"	"	08		"		MA 1.29	"	6:50		"		
086	arc seq							"	7:02		200		
087	Image slit	"	09				FWHM ~ 7.3	SII	7:07	51" slit from star	100	1x1	
088	spectrum	"	10		8.2		MA 1.32	H α	7:12		300	1x2	
089	"	35.0	09		8.2		MA 1.33	"	7:18		"		
090	arc seq	35.0	"		8.1			"	7:24		200		
091	Image slit	05 35 35.0	-5 22 59		8.2		FWHM ~	MA 1.36	SII	7:31	N 0" slit from star	100	1x1 N 12"
092	Image slit	"	22 56		"			MA 1.38	"	7:35	N 2" slit from star	-100	
093	spectrum	"	"		8.1		MA 1.39	H α	7:39		300	1x2	
094	"	"	"		"		MA 1.41	"	7:45		"		
095	arc seq							"	7:51		200		
096	Image slit	"	"		8.1	FWHM ~ 7.1	MA 1.45	SII	7:56	N 7" slit from star	100	1x1 S 1"	
097	spectrum	"	"		"		MA 1.46	H α	8:00		300	1x2 lost anidir	
098	Image slit	36.0	55		"		MA 1.50	SII	8:07		100	1x1	
099	Image slit	"	51		"	FWHM ~ 7.0	MA 1.52	"	8:12	N 3" slit from star	100	" move N 3"	

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 12/13 January 2007

Telescopio: 2.1 m Observadores: Bob O'Dell, Yilen Gómez Magno

Instrumento: MES

Detector: Site 3

Ganancia: 7

Lámpara de Calibración

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	Slit TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
nt2001-005	bias					-			1:28			bias
nt2006	centering	02 58 58.0	+04 18 24	2007.0	8.1 /	mirraria	MA 1.22	H α	1:41		0.5	1x1 Plataforma
007	"	02 58 59.0	+04 19 38		"	"	MA 1.21	"	1:46		"	
008	focus	03 11 22.0	-13 13 14		8.2 /	"	MA 1.55	"	1:52	FWHM~6.1	"	2x2
009	"	"	"		7.7 /	"	"	"	1:54	FWHM~5.9	"	
010	"	"	"		7.0	"	MA 1.54	"	1:56	FWHM~4.8	"	
011	"	"	"		6.0	"	MA 1.53	"	1:59	FWHM~6.3	"	
012	"	"	"		7.6	"	MA 1.52	"	2:01	FWHM~	0.5	saturated
013	focus	"	"		7.7	"	"	H α	2:03	FWHM~3.3	0.2	
014	"	"	"		7.4	"	"	"	2:04	FWHM~3.6	0.2	
015	"	"	"		8.1	"	MA 1.51	"	2:05	FWHM~4.2	0.2	
016	"	"	"		7.8	"	"	"	2:06	FWHM~3.9	0.2	
017	"	"	"		7.5	"	MA 1.50	"	2:07	FWHM~3.9	0.2	
018	"	22.9	"		7.3	"	"	"	2:08	FWHM~4.4	0.2	
019	Image slit	5 35 27.0	-05 21 50		7.2	150	MA 2.23	SII	2:15		100	2x2 OK
020	Image slit	5 34 53.0	-05 21 12		7.2	150	MA 2.08	"	2:25		100	
021	"	54	21 34		7.2	"	MA 1.94	"	2:38		100	
022	"	"	35		7.2	"	MA 1.91	"	2:41		100	
023	spectrum	"	"			"	MA 1.87	H α	2:44		600	
024	arc seq				7.3	"	"	"	2:55		200	
025	Spectrum	5 34 55.0	-05 21 38		7.3	"	MA 1.74	"	3:00		600	
026	Image slit	56	40		7.4	"	MA 1.62	SII	3:17		100	fov ok Plataforma
027	focus	"	"		"	slit out mirror in	1.58	"	3:25	FWHM~8.8	10	1x1
028	"	"	"		8.1	"	1.54	"	3:29	~11.1	10	read out field of Star

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 12/13 January 2007

Telescopio: 2.1 m

Observadores: Bob O'Dell, Yilan Gomez Magaña
 Instrumento: MES

Detector: Site 3

Ganancia: 4

Lámpara de Calibración:

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	Slit TEMP.	★ INCL. REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
nt2029	focus	05 34 56.9	-05 21 40	2007.0	7.4	slit out mirror in	MA 154	SII	3:31	fwlm~8.5	10	1x1 partial readout
030	"	"	"		7.1	"	"	"	3:32	~10.9	"	"
031	Image slit	"	"		7.4	150	1.52	"	3:36	no guiding!!	100	2x2 complete readout
032	"	57	43		7.5	"	1.50	"	3:39		100	
033	"	"	"		7.5	"	1.48	"	3:45	move guider 10" E	100	
034	"	# 58	"		7.5	"	1.46	"	3:49	move guider 20" W	100	
035	Image slit	"	"		7.5	"	1.44	"	3:54	move guider 2" W	100	
036	"	59.0	44		7.4	"	1.43	"	3:57	3" W	100	
037	"	"	"		7.5	"	1.41	"	4:02	3" E	"	detectors
038	spectrum	"	"		7.5	"	1.40	Hα	4:05	fwlm~3.2	600	2x2
039	arc seq				7.5	"	"	"	4:16		200	
040	spectrum	"	45		7.5	"	1.35	"	4:21		600	
041	Image slit	58.9	"		7.5	"	1.33	"	4:34	move guider 18" E	100	15.3" W slit from star
042	spectrum	"	"		7.5	"	MA 1.31	"	4:39		600	
043	arc seq				7.5	"	"	"	4:50		200	
044	spectrum	"	46		7.5	"	MA 1.28	"	4:55		600	
045	Image slit	59.0	"	fwlm~3.0	7.5	"	MA 1.27	"	5:07	move guider 8" E	100	22.9" W slit from star
046	spectrum	"	"		7.5	"	MA 1.26	"	5:11		600	
047	arc seq				7.5	"	"	"	5:22		200	
048	spectrum	05 35 00.0	"		7.5	"	MA 1.25	"	5:27		600	
049	Image slit	34 59.9	"		7.5	150	MA 1.24	"	5:39	fwlm~3.4	100	29.4" W slit from star
050	Spectrum	"	"		7.5	"	"	"	5:44		600	
051	arc seq				7.5	"	"	"	5:57		200	
052	Spectrum	"	"		7.5	"	MA 1.24	"	6:02		600	

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 12/13 January 2007

Telescopio: 2.1m

Lámpara de Calibración:

Observadores: Bob O'Dell, Yilen Gómez Magaña

Instrumento: MES

Detector: Site 3

Ganancia: _____

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	Slit TEMP.	★ INCL. REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
054	Image slit spectrum	5 34 59.0	-5 21 25	2007.0	7.5	150	MA 1.25	Hα	6:16	FWHM ~3.2	100	20" N moved telescope
055	arc seq.	"	"		"	"	"	"	6:21		600	
056	spectrum	5 35 00.0	-5 21 25		"	"	MA 1.27	"	6:32		200	
057	Image slit	34 59.0	24		"	"	MA 1.29	"	6:37		600	
058	spectrum	"	"		7.6	"	MA 1.30	"	6:55		600	
059	arc seq				"	"	"	"	7:06		200	
060	spectrum	35 00.0	23		"	"	MA 1.32	"	7:11		600	
061	Image slit	03.9	"		"	"	MA 1.36	"	7:26	FWHM ~3.8	400	3.7" E slit from star
062	spectrum	"	"		"	"	MA 1.38	"	7:30		600	
063	arc seq				"	"	"	"	7:41		200	
064	spectrum	"	"		7.6	"	MA 1.43	"	7:46		600	NOT SAVED
065	Image slit	05 35 43.0	-05 22 14		7.6	70	MA 1.50	SII	8:05		100	Platina 2x2
066	focus	"	"		7.6	no slit mirror	MA 1.52	"	8:09		1	
067	"	"	"		"	"	MA 1.54	"	8:13	bad image	0.2	1x1 partial readout
068	"	"	"		7.2	"	MA 1.55	"	8:15	~5.0	0.1	
069	"	"	"		6.9	"	MA 1.56	"	8:16	~6.1	0.1	
070	"	"	"		7.1	"	MA 1.56	"	8:17	~5.1	0.1	
071	Image slit	"	15		7.1	70	MA 1.61	"	8:25		100	complete readout
072	"	37.0	41		7.1	"	MA 1.70	"	8:39	FWHM ~6.8	100	2.9" N 54" from
073	spectrum	"	"		7.1	"	MA 1.74	Hα OIII	8:44		300	1x2
074	arc seq	"			7.1	"		OIII	8:50		200	
075	spectrum	"	39		7.0	"	MA 1.85	"	8:54		300	

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 12/13 January 2007 Observadores: Bob O'Dell, Yilén Gómez Magaña
 Telescopio: 2.1 m Instrumento: MES Detector: Site 3 Ganancia: 4

Lámpara de Calibración Rendija/Máscara: Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	slit TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
nt2076	image slit	5 35 37.9	-5 22 39		7.1	70	MA 1.89	Hα	9:01		100	1x1 onstar
077	spectrum	11	38		7.0	70	MA 1.94	0III	9:05		300	1x2
078	arc seq	11 38.0	37		"	"	"	"	9:11		200	
079	spectrum	37.9	35		7.0	"	MA 2.05	"	9:16		300	
080	spectrum	38.0	14		7.0	"	MA 2.15	"	9:23		10	~30" N telescope
081	Image slit	11	11		7.0	"	MA 2.22	SII	9:29		100	1x1
082	spectrum	11	03		"	"	MA 2.32	0III	9:35		10	1x2 tip
083	ghostspect.	09 20 23.0	-6 01 11			150	MA 1.17	0I	9:49		100	
084	"	"	"		7.0	150	MA 1.17	"	9:52		1000	
085	arc seq				7.0	"	"	"	10:12		200	

END OF NIGHT

10:30 UT

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OBSERVATORIO ASTRONOMICO NACIONAL S P M
BITACORA DE ESPECTROSCOPIA

Fecha: 14 January 2007

Telescopio: 2.1 m

Lámpara de Calibración

Observadores: Bob O'Dell, Yilen Gómez Magaña

Instrumento: MES

Detector: Site 3

Ganancia: 4

Rendija/Máscara:

Rejilla:

ESPECTRO No. DE SECUENCIA	OBJETO	A. R.	DEC.	EPOCA	FOCO TEL./ FOCO COLIM.	SLIT TEMP.	INCL, REJILLA	FILTRO	INICIO EXPOSICION		TIEMPO EXPOSICION (SEG)	COMENTARIOS
									T. U.	T. S.		
nt3001	centering	07 23 51.0	+18 27 52	2007.0	6.9	mirror	MA 1.12	Hx	6:31		0.1	1X1 not saved
nt3002	"	"	28 59	"	"	mirror	"	"	6:34		"	
nt3002	focus	05 41 07.0	-10 23 27		71	"	MA 1.36	"	6:39	frlm~13.8	1	
003	"	05 41 07.0	-10 23 26		6.5	"	"	"	6:41	frlm~11.7	1	partially readed
004	"	"	"		5.6	"	MA 1.37	"	6:43	frlm~15.6	1	"
005	"	"	"		6.9	"	"	"	6:43	frlm~10.8	1	"
006	"	"	"		6.6	"	"	"	6:44	frlm~10.4	1	"
007	"	"	"		6.3	"	"	"	6:45	frlm~9.7	1	"
008	"	"	"		5.9	"	"	"	6:46	frlm~7.7	1	"
009	"	"	"		6.4	"	MA 1.38	"	6:47	frlm~15.2	1	"
010	"	"	"		"	"	"	"	6:48	frlm~14.1	1	"
011	"	"	"		"	"	"	"	6:48	frlm~12.2	1	"
012	"	"	"		"	"	"	"	6:50	~8.9	1	"
013	"	08.0	"		"	"	"	"	6:52	~11.2	1	"
014	"	"	"		"	"	MA 1.39	"	6:53	~9.4	1	"
015	"	"	"		"	"	"	"	6:57	~4.8	1	"
016	"	"	"		"	"	1.41	"	7:00	~10.0	1	"
017	"	"	"		"	"	1.44	"	7:18	~124	1	"
018	"	09.0	"		"	"	1.47	"	7:28	~23	1	"
019	arc seq				" slit 150	mirror out grating -70°	1.48	OI	7:33		200	2x2
020	arc seq					70° grating		OIII	7:44		200	1x2
021	focus				6.4	mirror	1.56	Hx	7:52	~10.7	1	1X1 partially readed
022	"	05 41 09.0	-10 23 27		6.4	slit out	1.57	"	7:53	~16.9	1	
023	"	"	"		6.72		"	"	7:54	~14.4	1	

