

UT Date 2002-04-05 Observers P BerlindColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.BIAS	0	1:32	07:00:36.0	31:30:31	300	90	3.0	#56 Spectropho	4	
0011.FLAT	8	1:32	07:01:07.0	31:30:31	300	90	3.0	#56 Spectropho	4	lots of thin clouds
0012-0020.FLAT	8	1:34	07:03:21.0	31:30:31	300	90	3.0	#56 Spectropho	4	
0021-0030.BIAS	0	1:37	07:05:49.0	31:30:32	300	90	3.0	#56 Spectropho	2	
0031-0037.FLAT	16	1:40	07:09:35.0	31:30:32	300	90	3.0	#56 Spectropho	2	
0038-0040.FLAT	16	1:42	07:11:02.0	31:30:33	300	90	3.0	#56 Spectropho	2	
0041-0045.sky	3	2:00	7:28:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0046.COMP	5	2:01	7:28:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0047.2MJ0602512m234127	180	2:41	06:02:51.2	-23:41:27	300	90	3.0	#68 2MASS Reds	4	
0048.COMP	5	2:45	06:02:51.2	-23:41:27	300	90	3.0	#68 2MASS Reds	4	
0049.2MJ0600048m263341	180	2:45	06:00:04.8	-26:33:41	300	90	3.0	#68 2MASS Reds	4	
0050.COMP	5	2:49	06:00:04.8	-26:33:41	300	90	3.0	#68 2MASS Reds	4	
0051.2MJ0609080m273032	240	2:49	06:09:08.0	-27:30:32	300	90	3.0	#68 2MASS Reds	4	
0052.COMP	5	2:53	06:09:08.0	-27:30:32	300	90	3.0	#68 2MASS Reds	4	
0053.2MJ0616040m123517	210	2:54	06:16:04.0	-12:35:17	300	90	3.0	#68 2MASS Reds	4	
0054.COMP	5	2:58	06:16:04.0	-12:35:17	300	90	3.0	#68 2MASS Reds	4	
0055.align	30	3:02	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	ccd has been out of alignment
0056.align	10	3:05	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	2	
0057.align	30	3:10	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0058.align	6	3:12	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	

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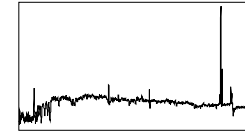
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0059.COMP	5	3:13	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0060.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	and so the lines have been tilted
0061.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0062.fastfoc	5	3:15	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0063.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0064.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0065.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0066.fastfoc	5	3:16	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0067.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0068.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0069.fastfoc	5	3:17	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0070.fastfoc	5	3:18	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0071.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0072.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0073.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0074.fastfoc	5	3:21	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0075.align	30	3:23	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0076.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	and it was a pain to align
0077.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0078.fastfoc	5	3:27	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	

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0079.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0080.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0081.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0082.fastfoc	5	3:28	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0083.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0084.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0085.fastfoc	5	3:29	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0086.fastfoc	5	3:30	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0087.grrrr	5	3:32	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0088.grrrr	5	3:32	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	normally easy during the day...
0089.startest	30	3:34	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0090.doublegrrrr	30	3:35	8:40:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0091.doublegrrrr	30	3:39	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0092.align	20	3:44	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0093.align	20	3:47	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0094.align	20	3:50	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0095.align	20	3:53	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0096.align	30	3:56	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0097.align	30	4:01	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0098.align	30	4:04	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	

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0099.align	45	4:09	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	1	
0100.ok	5	4:12	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0101.startest	90	4:13	9:15:00	32:00:00	300	90	3.0	#68 2MASS Reds	4	
0102.2MJ0639535p793755	360	4:17	06:39:53.5	+79:37:55	300	90	3.0	#68 2MASS Reds	4	beautiful
0103.COMP	5	4:23	06:39:53.5	+79:37:55	300	90	3.0	#68 2MASS Reds	4	
0104.2MJ0836109m032602EW	480	4:27	08:36:10.9	-03:26:02	300	90	3.0	#68 2MASS Reds	2	E and W galaxies
0105.COMP	10	4:36	08:36:10.9	-03:26:02	300	90	3.0	#68 2MASS Reds	2	W @ row 81, E @ row 92
0106.2MJ0906340m071427	120	4:37	09:06:34.0	-07:14:27	300	90	3.0	#68 2MASS Reds	2	
0107.COMP	10	4:40	09:06:34.0	-07:14:27	300	90	3.0	#68 2MASS Reds	2	
0108.2MJ0931123m162116	600	4:42	09:31:12.3	-16:21:16	300	90	3.0	#68 2MASS Reds	2	
0109.COMP	10	4:52	09:31:12.3	-16:21:16	300	90	3.0	#68 2MASS Reds	2	
0110.2MJ0948554m255828	660	4:53	09:48:55.4	-25:58:28	300	90	3.0	#68 2MASS Reds	4	
0111.COMP	5	5:04	09:48:55.4	-25:58:28	300	90	3.0	#68 2MASS Reds	4	
0112.Feige34	150	5:07	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0113.Feige34	150	5:09	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0114.COMP	10	5:12	10:36:41.2	43:21:50	300	0	3.0	#56 Spectropho	2	
0115.sn2002bo	1200	5:15	10:18:06.5	+21:49:41	300	40	3.0	#2 SN Observat	2	
0116.COMP	10	5:35	10:18:06.5	+21:49:41	300	40	3.0	#2 SN Observat	2	
0117.2MJ1031285p194222	240	5:37	10:31:28.5	+19:42:22	300	90	3.0	#68 2MASS Reds	4	
0118.COMP	5	5:41	10:31:28.5	+19:42:22	300	90	3.0	#68 2MASS Reds	4	

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0119.2MJ1005260m174757	900	5:45	10:05:26.0	-17:47:57	300	90	3.0	#68 2MASS Reds	4	LSB
0120.COMP	5	6:00	10:05:26.0	-17:47:57	300	90	3.0	#68 2MASS Reds	4	
0121.2MJ1101165m133337	720	6:01	11:01:16.5	-13:33:37	300	90	3.0	#68 2MASS Reds	4	
0122.COMP	5	6:14	11:01:16.5	-13:33:37	300	90	3.0	#68 2MASS Reds	4	
0123.comas_054	1200	6:15	13:10:20.1	32:28:59	300	90	3.0	#64f Cluster I	4	
0124.COMP	5	6:37	13:10:20.1	32:28:59	300	90	3.0	#64f Cluster I	4	
0125.comas_055	1200	6:38	12:42:47.2	27:16:18	300	90	3.0	#64f Cluster I	4	
0126.COMP	5	6:58	12:42:47.2	27:16:18	300	90	3.0	#64f Cluster I	4	
0127.comas_057	720	6:59	12:32:43.0	29:42:44	300	90	3.0	#64f Cluster I	4	
0128.COMP	5	7:11	12:32:43.0	29:42:44	300	90	3.0	#64f Cluster I	4	
0129.comas_058	540	7:12	12:59:12.2	35:54:35	300	90	3.0	#64f Cluster I	4	
0130.COMP	5	7:22	12:59:12.2	35:54:35	300	90	3.0	#64f Cluster I	4	
0131.2MJ1150174p881218	1200	7:31	11:50:17.4	+88:12:18	300	90	3.0	#68 2MASS Reds	4	more clouds but looks ok
0132.COMP	5	7:51	11:50:17.4	+88:12:18	300	90	3.0	#68 2MASS Reds	4	tough to find this far north
0133.sn2002ca	1200	7:56	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0134.COMP	10	8:17	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0135.sn2002ca	1200	8:18	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0136.COMP	10	8:38	13:32:31.5	+01:50:41	300	0	3.0	#2 SN Observat	2	
0137.sn2002bz	1200	8:41	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	
0138.COMP	10	9:02	14:24:40.5	+26:37:34	300	90	3.0	#2 SN Observat	2	

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0139.2MJ1348518m073000	1200	9:05	13:48:51.8	-07:30:00	300	45	3.0	#68 2MASS Reds	4	
0140.COMP	5	9:26	13:48:51.8	-07:30:00	300	45	3.0	#68 2MASS Reds	4	
0141.2MJ1405419m133558NS	600	9:28	14:05:41.9	-13:35:58	300	45	3.0	#68 2MASS Reds	2	NE and SW gals, plus star
0142.COMP	10	9:38	14:05:41.9	-13:35:58	300	45	3.0	#68 2MASS Reds	2	NE gal row 87, SW gal row 76, star 64
0143.2MJ1422570m061418	240	9:40	14:22:57.0	-06:14:18	300	90	3.0	#68 2MASS Reds	2	
0144.COMP	10	9:45	14:22:57.0	-06:14:18	300	90	3.0	#68 2MASS Reds	2	
0145.2MJ1437507m213643	240	9:45	14:37:50.7	-21:36:43	300	90	3.0	#68 2MASS Reds	4	
0146.COMP	5	9:50	14:37:50.7	-21:36:43	300	90	3.0	#68 2MASS Reds	4	
0147.2MJ1514247m212948	360	9:50	15:14:24.7	-21:29:48	300	90	3.0	#68 2MASS Reds	4	
0148.COMP	5	9:57	15:14:24.7	-21:29:48	300	90	3.0	#68 2MASS Reds	4	
0149.2MJ1521153m202026	240	9:58	15:21:15.3	-20:20:26	300	90	3.0	#68 2MASS Reds	4	
0150.COMP	5	10:02	15:21:15.3	-20:20:26	300	90	3.0	#68 2MASS Reds	4	more telescope runaways
0151.2MJ1521306m203126	240	10:03	15:21:30.6	-20:31:26	300	90	3.0	#68 2MASS Reds	4	
0152.COMP	5	10:07	15:21:30.6	-20:31:26	300	90	3.0	#68 2MASS Reds	4	
0153.2MJ1524289m230631	300	10:08	15:24:28.9	-23:06:31	300	90	3.0	#68 2MASS Reds	4	
0154.COMP	5	10:13	15:24:28.9	-23:06:31	300	90	3.0	#68 2MASS Reds	4	
0155.2MJ1525120m171438	360	10:14	15:25:12.0	-17:14:38	300	90	3.0	#68 2MASS Reds	2	
0156.COMP	10	10:21	15:25:12.0	-17:14:38	300	90	3.0	#68 2MASS Reds	2	
0157.2MJ1526534m200541	300	10:22	15:26:53.4	-20:05:41	300	90	3.0	#68 2MASS Reds	4	
0158.COMP	5	10:27	15:26:53.4	-20:05:41	300	90	3.0	#68 2MASS Reds	4	

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0159.2MJ1526556m234534	480	10:28	15:26:55.6	-23:45:34	300	90	3.0	#68 2MASS Reds	4	
0160.COMP	5	10:36	15:26:55.6	-23:45:34	300	90	3.0	#68 2MASS Reds	4	
0161.2MJ1528496m211224	240	10:37	15:28:49.6	-21:12:24	300	90	3.0	#68 2MASS Reds	4	
0162.COMP	5	10:41	15:28:49.6	-21:12:24	300	90	3.0	#68 2MASS Reds	4	
0163.2MJ1531106m211030	480	10:42	15:31:10.6	-21:10:30	300	90	3.0	#68 2MASS Reds	4	
0164.COMP	5	10:53	15:31:10.6	-21:10:30	300	90	3.0	#68 2MASS Reds	4	stopped by clouds
0165.BDp332642	60	11:05	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0166.BDp332642	120	11:07	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0167.BDp332642	120	11:09	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0168.COMP	10	11:11	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0169.N5866	180	11:15	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0170.COMP	5	11:18	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	4	
0171.1h1426p428	900	11:29	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	stopped by clouds
0172.COMP	5	11:44	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0173-0182.BIAS	0	11:57	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0183-0192.FLAT	8	12:00	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	
0193-0202.BIAS	0	12:03	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	2	
0203-0212.FLAT	16	12:07	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	2	
0213-0222.DARK	900	14:25	14:28:32.6	42:40:21	300	95	3.0	#133 MRK421	4	