



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10089

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BIAS	0	21:44	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	binby4
0002-0010.BIAS	0	21:46	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	
0011.BIAS	0	21:46	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	binby2
0012-0020.BIAS	0	21:48	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	
0021.DARK	900	21:48	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	binby4
0022-0025.DARK	900	22:58	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	
0026.DARK	900	22:58	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	binby2
0027-0030.DARK	900	0:15	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	
0031.FLAT	6	0:15	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	binby4
0032-0040.FLAT	6	0:45	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	4	
0041.FLAT	12	0:45	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	binby2
0042-0050.FLAT	12	0:50	10:39:37.6	43:06:21	300	90	3.0	#56 Spectropho	2	
0051.SKY	5	0:50	1:09:20	31:30:00	300	5	3.0	#57 Velocity S	4	binby4
0052-0055.SKY	5	1:23	1:09:20	31:30:00	300	5	3.0	#57 Velocity S	4	
0056.COMP	5	1:23	1:09:20	31:30:00	300	90	3.0	#57 Radial Vel	4	
0057.sn2002ap	240	1:23	01:36:23.8	+15:45:13	300	90	3.0	#2 SN Observat	2	binby2
0058.sn2002ap	240	1:23	01:36:23.8	+15:45:13	300	90	3.0	#2 SN Observat	2	
0059.COMP	12	1:23	01:36:23.8	+15:45:13	300	90	3.0	#2 SN Observat	2	
0060.2MJ0319155p760353	360	1:23	03:19:15.5	+76:03:53	300	90	3.0	#68 2MASS Reds	4	
0061.COMP	5	1:23	03:19:15.5	+76:03:53	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10090

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.2MJ0336565p764252	360	1:23	03:36:56.5	+76:42:52	300	90	3.0	#68 2MASS Reds	4	
0063.2MJ0336565p764252	360	1:23	03:36:56.5	+76:42:52	300	90	3.0	#68 2MASS Reds	4	
0064.COMP	5	1:23	03:36:56.5	+76:42:52	300	90	3.0	#68 2MASS Reds	4	
0065.2MJ0341491p770027	360	1:23	03:41:49.1	+77:00:27	300	90	3.0	#68 2MASS Reds	4	
0066.COMP	5	1:23	03:41:49.1	+77:00:27	300	90	3.0	#68 2MASS Reds	4	
0067.2MJ0427398m054701	300	1:23	04:27:39.8	-05:47:01	300	90	3.0	#68 2MASS Reds	4	
0068.COMP	5	1:23	04:27:39.8	-05:47:01	300	90	3.0	#68 2MASS Reds	4	
0069.2MJ0428557m035024	300	1:23	04:28:55.7	-03:50:24	300	90	3.0	#68 2MASS Reds	4	
0070.COMP	5	1:23	04:28:55.7	-03:50:24	300	90	3.0	#68 2MASS Reds	4	
0071.2MJ0430065m091303	300	1:23	04:30:06.5	-09:13:03	300	90	3.0	#68 2MASS Reds	4	
0072.COMP	5	1:23	04:30:06.5	-09:13:03	300	90	3.0	#68 2MASS Reds	4	
0073.2MJ0432036m062037	300	1:23	04:32:03.6	-06:20:37	300	90	3.0	#68 2MASS Reds	4	
0074.COMP	5	1:23	04:32:03.6	-06:20:37	300	90	3.0	#68 2MASS Reds	4	
0075.2MJ0433074m073130	360	1:23	04:33:07.4	-07:31:30	300	90	3.0	#68 2MASS Reds	4	
0076.COMP	5	1:23	04:33:07.4	-07:31:30	300	90	3.0	#68 2MASS Reds	4	
0077.2MJ0438095m111350	360	1:23	04:38:09.5	-11:13:50	300	90	3.0	#68 2MASS Reds	4	
0078.COMP	5	1:23	04:38:09.5	-11:13:50	300	90	3.0	#68 2MASS Reds	4	
0079.2MJ0439586m092721	360	1:23	04:39:58.6	-09:27:21	300	90	3.0	#68 2MASS Reds	4	
0080.COMP	5	1:23	04:39:58.6	-09:27:21	300	90	3.0	#68 2MASS Reds	4	
0081.2MJ0439589m103919	360	1:23	04:39:58.9	-10:39:19	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10091

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0082.COMP	5	1:23	04:39:58.9	-10:39:19	300	90	3.0	#68 2MASS Reds	4	
0083.2MJ0440508m121650	300	1:23	04:40:50.8	-12:16:50	300	90	3.0	#68 2MASS Reds	4	
0084.COMP	5	1:23	04:40:50.8	-12:16:50	300	90	3.0	#68 2MASS Reds	4	
0085.2MJ0443130m154211	300	1:23	04:43:13.0	-15:42:11	300	90	3.0	#68 2MASS Reds	4	
0086.COMP	5	1:23	04:43:13.0	-15:42:11	300	90	3.0	#68 2MASS Reds	4	
0087.2MJ0445131m150651	300	1:23	04:45:13.1	-15:06:51	300	90	3.0	#68 2MASS Reds	4	
0088.COMP	5	1:23	04:45:13.1	-15:06:51	300	90	3.0	#68 2MASS Reds	4	
0089.2MJ0446073m154915	300	1:23	04:46:07.3	-15:49:15	300	90	3.0	#68 2MASS Reds	4	
0090.COMP	5	1:23	04:46:07.3	-15:49:15	300	90	3.0	#68 2MASS Reds	4	
0091.2MJ0446079m170350	360	1:23	04:46:07.9	-17:03:50	300	90	3.0	#68 2MASS Reds	4	
0092.COMP	5	1:23	04:46:07.9	-17:03:50	300	90	3.0	#68 2MASS Reds	4	
0093.2MJ0454429m172707	360	1:23	04:54:42.9	-17:27:07	300	90	3.0	#68 2MASS Reds	4	
0094.COMP	5	1:23	04:54:42.9	-17:27:07	300	90	3.0	#68 2MASS Reds	4	
0095.2MJ0455480m185653	360	1:23	04:55:48.0	-18:56:53	300	90	3.0	#68 2MASS Reds	4	
0096.COMP	5	1:23	04:55:48.0	-18:56:53	300	90	3.0	#68 2MASS Reds	4	
0097.2MJ0456160m202349	300	1:23	04:56:16.0	-20:23:49	300	90	3.0	#68 2MASS Reds	4	
0098.COMP	5	1:23	04:56:16.0	-20:23:49	300	90	3.0	#68 2MASS Reds	4	
0099.2MJ0459355m240906	300	1:23	04:59:35.5	-24:09:06	300	90	3.0	#68 2MASS Reds	4	
0100.COMP	5	1:23	04:59:35.5	-24:09:06	300	90	3.0	#68 2MASS Reds	4	
0101.2MJ0450169m142050	300	1:23	04:50:16.9	-14:20:50	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10092

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0102.COMP	5	1:23	04:50:16.9	-14:20:50	300	90	3.0	#68 2MASS Reds	4	
0103.2MJ0455110p753900	300	1:23	04:55:11.0	+75:39:00	300	90	3.0	#68 2MASS Reds	4	
0104.COMP	5	1:23	04:55:11.0	+75:39:00	300	90	3.0	#68 2MASS Reds	4	
0105.2MJ0454007p704724	300	1:23	04:54:00.7	+70:47:24	300	90	3.0	#68 2MASS Reds	4	
0106.COMP	5	1:23	04:54:00.7	+70:47:24	300	90	3.0	#68 2MASS Reds	4	
0107.2MJ0453454p633604	300	1:23	04:53:45.4	+63:36:04	300	90	3.0	#68 2MASS Reds	4	
0108.COMP	5	1:23	04:53:45.4	+63:36:04	300	90	3.0	#68 2MASS Reds	4	
0109.2MJ0451163p691053	300	1:23	04:51:16.3	+69:10:53	300	90	3.0	#68 2MASS Reds	4	row=41
0110.COMP	5	1:23	04:51:16.3	+69:10:53	300	90	3.0	#68 2MASS Reds	4	
0111.2MJ0449001p635852	360	1:23	04:49:00.1	+63:58:52	300	90	3.0	#68 2MASS Reds	4	
0112.COMP	5	1:23	04:49:00.1	+63:58:52	300	90	3.0	#68 2MASS Reds	4	
0113.2MJ0436215p732429	300	1:23	04:36:21.5	+73:24:29	300	90	3.0	#68 2MASS Reds	4	
0114.COMP	5	1:23	04:36:21.5	+73:24:29	300	90	3.0	#68 2MASS Reds	4	
0115.2MJ0455116p690726	300	1:23	04:55:11.6	+69:07:26	300	90	3.0	#68 2MASS Reds	4	
0116.COMP	5	1:23	04:55:11.6	+69:07:26	300	90	3.0	#68 2MASS Reds	4	
0117.2MJ0501275p615735	360	1:23	05:01:27.5	+61:57:35	300	90	3.0	#68 2MASS Reds	4	
0118.2MJ0501275p615735	360	1:23	05:01:27.5	+61:57:35	300	90	3.0	#68 2MASS Reds	4	
0119.COMP	5	1:23	05:01:27.5	+61:57:35	300	90	3.0	#68 2MASS Reds	4	
0120.2MJ0505269p630135	360	1:23	05:05:26.9	+63:01:35	300	90	3.0	#68 2MASS Reds	4	
0121.2MJ0505269p630135	360	1:23	05:05:26.9	+63:01:35	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10093

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0122.COMP	5	1:23	05:05:26.9	+63:01:35	300	90	3.0	#68 2MASS Reds	4	
0123.2MJ0506108p622819	300	1:23	05:06:10.8	+62:28:19	300	90	3.0	#68 2MASS Reds	4	
0124.COMP	5	1:23	05:06:10.8	+62:28:19	300	90	3.0	#68 2MASS Reds	4	
0125.2MJ0507256p625550	300	1:23	05:07:25.6	+62:55:50	300	90	3.0	#68 2MASS Reds	4	
0126.COMP	5	1:23	05:07:25.6	+62:55:50	300	90	3.0	#68 2MASS Reds	4	
0127.2MJ0510288p605024	360	1:23	05:10:28.8	+60:50:24	300	90	3.0	#68 2MASS Reds	4	
0128.2MJ0510288p605024	360	1:23	05:10:28.8	+60:50:24	300	90	3.0	#68 2MASS Reds	4	
0129.COMP	5	1:23	05:10:28.8	+60:50:24	300	90	3.0	#68 2MASS Reds	4	
0130.2MJ0551454p505022	360	1:23	05:51:45.4	+50:50:22	300	90	3.0	#68 2MASS Reds	4	
0131.COMP	5	1:23	05:51:45.4	+50:50:22	300	90	3.0	#68 2MASS Reds	4	
0132.2MJ0553407p503256	360	1:23	05:53:40.7	+50:32:56	300	90	3.0	#68 2MASS Reds	4	
0133.COMP	5	1:23	05:53:40.7	+50:32:56	300	90	3.0	#68 2MASS Reds	4	
0134.2MJ0553459p510208	360	1:23	05:53:45.9	+51:02:08	300	90	3.0	#68 2MASS Reds	4	
0135.2MJ0553459p510208	360	1:23	05:53:45.9	+51:02:08	300	90	3.0	#68 2MASS Reds	4	
0136.COMP	5	1:23	05:53:45.9	+51:02:08	300	90	3.0	#68 2MASS Reds	4	
0137.2MJ0852137m221942	360	1:23	08:52:13.7	-22:19:42	300	90	3.0	#68 2MASS Reds	4	
0138.COMP	5	1:23	08:52:13.7	-22:19:42	300	90	3.0	#68 2MASS Reds	4	
0139.2MJ0853396m250329	300	1:23	08:53:39.6	-25:03:29	300	90	3.0	#68 2MASS Reds	4	
0140.COMP	5	1:23	08:53:39.6	-25:03:29	300	90	3.0	#68 2MASS Reds	4	
0141.2MJ0854049m252017	360	1:23	08:54:04.9	-25:20:17	300	90	3.0	#68 2MASS Reds	4	row=42



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10094

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0142.COMP	5	1:23	08:54:04.9	-25:20:17	300	90	3.0	#68 2MASS Reds	4	
0143.2MJ0855113m245258	300	1:23	08:55:11.3	-24:52:58	300	90	3.0	#68 2MASS Reds	4	
0144.COMP	5	1:23	08:55:11.3	-24:52:58	300	90	3.0	#68 2MASS Reds	4	
0145.2MJ0857016m244023	180	1:23	08:57:01.6	-24:40:23	300	90	3.0	#68 2MASS Reds	4	
0146.COMP	5	1:23	08:57:01.6	-24:40:23	300	90	3.0	#68 2MASS Reds	4	
0147.2MJ0901501m241429	420	1:23	09:01:50.1	-24:14:29	300	90	3.0	#68 2MASS Reds	4	two gals
0148.COMP	5	1:23	09:01:50.1	-24:14:29	300	90	3.0	#68 2MASS Reds	4	
0149.2MJ0917412m233502	300	1:23	09:17:41.2	-23:35:02	300	90	3.0	#68 2MASS Reds	4	row=42
0150.COMP	5	1:23	09:17:41.2	-23:35:02	300	90	3.0	#68 2MASS Reds	4	
0151.2MJ0924239m253558	300	1:23	09:24:23.9	-25:35:58	300	90	3.0	#68 2MASS Reds	4	
0152.COMP	5	1:23	09:24:23.9	-25:35:58	300	90	3.0	#68 2MASS Reds	4	
0153.2MJ0928292m242200	300	1:23	09:28:29.2	-24:22:00	300	90	3.0	#68 2MASS Reds	4	
0154.COMP	5	1:23	09:28:29.2	-24:22:00	300	90	3.0	#68 2MASS Reds	4	
0155.2MJ0929072m272418	300	1:23	09:29:07.2	-27:24:18	300	90	3.0	#68 2MASS Reds	4	
0156.COMP	5	1:23	09:29:07.2	-27:24:18	300	90	3.0	#68 2MASS Reds	4	
0157.2MJ0944318m270625	420	1:23	09:44:31.8	-27:06:25	300	90	3.0	#68 2MASS Reds	4	
0158.2MJ0944318m270625	420	1:23	09:44:31.8	-27:06:25	300	90	3.0	#68 2MASS Reds	4	
0159.COMP	5	1:23	09:44:31.8	-27:06:25	300	90	3.0	#68 2MASS Reds	4	
0160.2MJ0933351m250809	180	1:23	09:33:35.1	-25:08:09	300	90	3.0	#68 2MASS Reds	4	
0161.COMP	5	1:23	09:33:35.1	-25:08:09	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10095

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0162.2MJ1135070p201304	360	1:23	11:35:07.0	+20:13:04	300	90	3.0	#68 2MASS Reds	4	
0163.COMP	5	1:23	11:35:07.0	+20:13:04	300	90	3.0	#68 2MASS Reds	4	
0164.2MJ1136540p162316	360	1:23	11:36:54.0	+16:23:16	300	90	3.0	#68 2MASS Reds	4	
0165.COMP	5	1:23	11:36:54.0	+16:23:16	300	90	3.0	#68 2MASS Reds	4	
0166.2MJ1140093p204157	360	1:23	11:40:09.3	+20:41:57	300	90	3.0	#68 2MASS Reds	4	
0167.COMP	5	1:23	11:40:09.3	+20:41:57	300	90	3.0	#68 2MASS Reds	4	
0168.2MJ1142082p204202	360	1:23	11:42:08.2	+20:42:02	300	90	3.0	#68 2MASS Reds	4	
0169.COMP	5	1:23	11:42:08.2	+20:42:02	300	90	3.0	#68 2MASS Reds	4	
0170.2MJ1151015p214744	360	1:23	11:51:01.5	+21:47:44	300	90	3.0	#68 2MASS Reds	4	
0171.COMP	5	1:23	11:51:01.5	+21:47:44	300	90	3.0	#68 2MASS Reds	4	
0172.2MJ1153019p204109	300	1:23	11:53:01.9	+20:41:09	300	90	3.0	#68 2MASS Reds	4	
0173.COMP	5	1:23	11:53:01.9	+20:41:09	300	90	3.0	#68 2MASS Reds	4	
0174.2MJ1154351p235250	300	1:23	11:54:35.1	+23:52:50	300	90	3.0	#68 2MASS Reds	4	
0175.COMP	5	1:23	11:54:35.1	+23:52:50	300	90	3.0	#68 2MASS Reds	4	
0176.2MJ1207584p224744	300	1:23	12:07:58.4	+22:47:44	300	90	3.0	#68 2MASS Reds	4	
0177.COMP	5	1:23	12:07:58.4	+22:47:44	300	90	3.0	#68 2MASS Reds	4	
0178.2MJ1224156p201721	300	1:23	12:24:15.6	+20:17:21	300	90	3.0	#68 2MASS Reds	4	
0179.COMP	5	1:23	12:24:15.6	+20:17:21	300	90	3.0	#68 2MASS Reds	4	
0180.2MJ1308439p134824	360	1:23	13:08:43.9	+13:48:24	300	90	3.0	#68 2MASS Reds	4	
0181.COMP	5	1:23	13:08:43.9	+13:48:24	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10096

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0182.2MJ1312097p111409	360	1:23	13:12:09.7	+11:14:09	300	90	3.0	#68 2MASS Reds	4	
0183.COMP	5	1:23	13:12:09.7	+11:14:09	300	90	3.0	#68 2MASS Reds	4	
0184.2MJ1313403p124121	300	1:23	13:13:40.3	+12:41:21	300	90	3.0	#68 2MASS Reds	4	
0185.COMP	5	1:23	13:13:40.3	+12:41:21	300	90	3.0	#68 2MASS Reds	4	
0186.2MJ1313410p132108	360	1:23	13:13:41.0	+13:21:08	300	90	3.0	#68 2MASS Reds	4	
0187.COMP	5	1:23	13:13:41.0	+13:21:08	300	90	3.0	#68 2MASS Reds	4	
0188.2MJ1315481p100011	360	1:23	13:15:48.1	+10:00:11	300	90	3.0	#68 2MASS Reds	4	
0189.COMP	5	1:23	13:15:48.1	+10:00:11	300	90	3.0	#68 2MASS Reds	4	
0190.2MJ1317569p224525	360	1:23	13:17:56.9	+22:45:25	300	90	3.0	#68 2MASS Reds	4	
0191.COMP	5	1:23	13:17:56.9	+22:45:25	300	90	3.0	#68 2MASS Reds	4	
0192.2MJ1322209p214721	360	1:23	13:22:20.9	+21:47:21	300	90	3.0	#68 2MASS Reds	4	
0193.COMP	5	1:23	13:22:20.9	+21:47:21	300	90	3.0	#68 2MASS Reds	4	
0194.2MJ1318462p204452	360	1:23	13:18:46.2	+20:44:52	300	90	3.0	#68 2MASS Reds	4	
0195.COMP	5	1:23	13:18:46.2	+20:44:52	300	90	3.0	#68 2MASS Reds	4	
0196.2MJ1315299p095101	360	1:23	13:15:29.9	+09:51:01	300	90	3.0	#68 2MASS Reds	4	
0197.COMP	5	1:23	13:15:29.9	+09:51:01	300	90	3.0	#68 2MASS Reds	4	
0198.2MJ1315044p082912	360	1:23	13:15:04.4	+08:29:12	300	90	3.0	#68 2MASS Reds	4	
0199.COMP	5	1:23	13:15:04.4	+08:29:12	300	90	3.0	#68 2MASS Reds	4	
0200.2MJ1311185p100453	360	1:23	13:11:18.5	+10:04:53	300	90	3.0	#68 2MASS Reds	4	
0201.COMP	5	1:23	13:11:18.5	+10:04:53	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10097

UT Date 2002-02-08 Observers L Macri

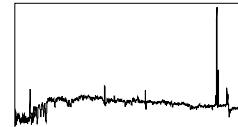
Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0202.2MJ1153445p230732	360	1:23	11:53:44.5	+23:07:32	300	90	3.0	#68 2MASS Reds	4	
0203.COMP	5	1:23	11:53:44.5	+23:07:32	300	90	3.0	#68 2MASS Reds	4	
0204.2MJ1204399p201341	360	1:23	12:04:39.9	+20:13:41	300	90	3.0	#68 2MASS Reds	4	
0205.COMP	5	1:23	12:04:39.9	+20:13:41	300	90	3.0	#68 2MASS Reds	4	
0206.2MJ1533095m015157	300	1:23	15:33:09.5	-01:51:57	300	90	3.0	#68 2MASS Reds	4	
0207.COMP	5	1:23	15:33:09.5	-01:51:57	300	90	3.0	#68 2MASS Reds	4	
0208.2MJ1547465p043207	300	1:23	15:47:46.5	+04:32:07	300	90	3.0	#68 2MASS Reds	4	
0209.COMP	5	1:23	15:47:46.5	+04:32:07	300	90	3.0	#68 2MASS Reds	4	
0210.2MJ1548190p090700	300	1:23	15:48:19.0	+09:07:00	300	90	3.0	#68 2MASS Reds	4	
0211.COMP	5	1:23	15:48:19.0	+09:07:00	300	90	3.0	#68 2MASS Reds	4	
0212.2MJ1548228p104907	300	1:23	15:48:22.8	+10:49:07	300	90	3.0	#68 2MASS Reds	4	
0213.COMP	5	1:23	15:48:22.8	+10:49:07	300	90	3.0	#68 2MASS Reds	4	
0214.2MJ1551004p124806	300	1:23	15:51:00.4	+12:48:06	300	90	3.0	#68 2MASS Reds	4	
0215.COMP	5	1:23	15:51:00.4	+12:48:06	300	90	3.0	#68 2MASS Reds	4	
0216.2MJ1557520p041544	300	1:23	15:57:52.0	+04:15:44	300	90	3.0	#68 2MASS Reds	4	
0217.COMP	5	1:23	15:57:52.0	+04:15:44	300	90	3.0	#68 2MASS Reds	4	
0218.2MJ1608065p252906	360	1:23	16:08:06.5	+25:29:06	300	90	3.0	#68 2MASS Reds	4	two gals
0219.COMP	5	1:23	16:08:06.5	+25:29:06	300	90	3.0	#68 2MASS Reds	4	
0220.2MJ1609518p254110	300	1:23	16:09:51.8	+25:41:10	300	90	3.0	#68 2MASS Reds	4	
0221.COMP	5	1:23	16:09:51.8	+25:41:10	300	90	3.0	#68 2MASS Reds	4	



WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



Page 10098

UT Date 2002-02-08 Observers L Macri

Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0222.2MJ1531308m050939	300	1:23	15:31:30.8	-05:09:39	300	90	3.0	#68 2MASS Reds	4	
0223.COMP	5	1:23	15:31:30.8	-05:09:39	300	90	3.0	#68 2MASS Reds	4	
0224.2MJ1537127m051956	300	1:23	15:37:12.7	-05:19:56	300	90	3.0	#68 2MASS Reds	4	
0225.COMP	5	1:23	15:37:12.7	-05:19:56	300	90	3.0	#68 2MASS Reds	4	
0226.2MJ1541048m050925	300	1:23	15:41:04.8	-05:09:25	300	90	3.0	#68 2MASS Reds	4	
0227.COMP	5	1:23	15:41:04.8	-05:09:25	300	90	3.0	#68 2MASS Reds	4	
0228.2MJ1541383m040258	300	1:23	15:41:38.3	-04:02:58	300	90	3.0	#68 2MASS Reds	4	
0229.COMP	5	1:23	15:41:38.3	-04:02:58	300	90	3.0	#68 2MASS Reds	4	
0230.2MJ1546530m033328	300	1:23	15:46:53.0	-03:33:28	300	90	3.0	#68 2MASS Reds	4	
0231.COMP	5	1:23	15:46:53.0	-03:33:28	300	90	3.0	#68 2MASS Reds	4	
0232.N4486B	240	1:23	12:28:00.6	12:46:00	300	90	3.0	#57 Radial Vel	4	
0233.COMP	5	1:23	12:28:00.6	12:46:00	300	90	3.0	#57 Radial Vel	4	
0234-0243.BIAS	0	13:17	12:28:00.6	12:46:00	300	90	3.0	#57 Radial Vel	4	
0244-0248.DARK	900	14:19	12:28:00.6	12:46:00	300	90	3.0	#57 Radial Vel	4	