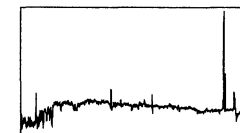
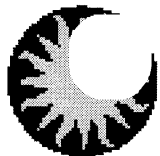
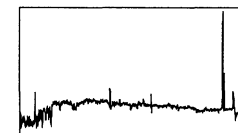
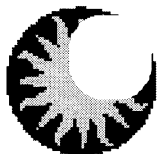
UT Date 2002-12-09 Observers P BerlindColl. Focus 985 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	21:34	19:35:34.6	+31:29:59	300	90	3.0	#57 Velocity S	4	
0002.DARK	900	21:49	19:50:42.1	+31:29:55	300	90	3.0	#57 Velocity S	4	
0003.DARK	900	22:05	20:05:52.9	+31:29:52	300	90	3.0	#57 Velocity S	4	
0004.DARK	900	22:20	20:21:00.4	+31:29:48	300	90	3.0	#57 Velocity S	4	
0005.DARK	900	22:35	20:36:11.3	+31:29:45	300	90	3.0	#57 Velocity S	4	
0006.DARK	900	22:50	20:51:18.7	+31:29:42	300	90	3.0	#57 Velocity S	4	
0007.DARK	900	23:05	21:06:29.7	+31:29:39	300	90	3.0	#57 Velocity S	4	
0008.DARK	900	23:20	21:21:37.0	+31:29:36	300	90	3.0	#57 Velocity S	4	
0009.DARK	900	23:35	21:36:48.1	+31:29:34	300	90	3.0	#57 Velocity S	4	
0010.DARK	900	23:50	21:51:55.5	+31:29:31	300	90	3.0	#57 Velocity S	4	
0011-0015.BIAS	0	0:25	22:12:07.4	+31:29:29	300	90	1.1	#130 Solar Sys	1	
0016-0020.BIAS	0	0:27	22:14:05.1	+31:29:28	300	90	1.1	#130 Solar Sys	1	
0021.FLAT	120	0:31	22:20:05.5	+31:29:28	300	90	1.1	#130 Solar Sys	1	1.1-sec slit, blue tilt 575
0022-0024.FLAT	120	0:39	22:27:18.7	+31:29:27	300	90	1.1	#130 Solar Sys	1	
0025-0028.FLAT	120	0:48	22:36:59.3	+31:29:26	300	90	1.1	#130 Solar Sys	1	
0029-0030.FLAT	120	0:53	22:41:48.4	+31:29:25	300	90	1.1	#130 Solar Sys	1	
0031.COMP	30	0:56	22:42:31.9	+31:29:25	300	90	1.1	#130 Solar Sys	1	
0032.HD186427	10	1:00	19:41:53	50:31:11	300	90	1.1	#130 Solar Sys	1	
0033.HD186427	10	1:01	19:41:53	50:31:11	300	90	1.1	#130 Solar Sys	1	
0034.HD186427	10	1:01	19:41:53	50:31:11	300	90	1.1	#130 Solar Sys	1	

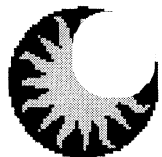
DARKS AT BEGINNING OF NIGHT HAVE HIGHER
COUNTS THAN THOSE TAKEN AT END OF EVENING

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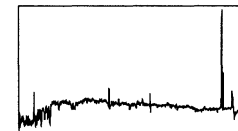
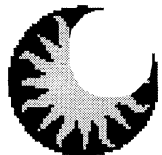
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0035.COMP	30	1:02	19:41:53	50:31:11	300	90	1.1	#130 Solar Sys	1	
0036.HD217086	10	1:04	22:54:49.0	62:27:35	300	90	1.1	#130 Solar Sys	1	
0037.HD217086	20	1:06	22:54:49.0	62:27:35	300	90	1.1	#130 Solar Sys	1	
0038.HD217086	20	1:07	22:54:49.0	62:27:35	300	90	1.1	#130 Solar Sys	1	
0039.HD217086	20	1:07	22:54:49.0	62:27:35	300	90	1.1	#130 Solar Sys	1	
0040.COMP	30	1:08	22:54:49.0	62:27:35	300	90	1.1	#130 Solar Sys	1	
0041.moon.term	10	1:11	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0042.moon.term	6	1:12	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0043.moon.term	6	1:13	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0044.moon.bright.sky	2	1:14	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0045.moon.bright.sky	0	1:15	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0046.moon.bright.sky	0	1:16	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0047.moon.bright.sky	0	1:17	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0048.moon.dark.sky	20	1:19	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0049.moon.dark.sky	20	1:21	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0050.moon.dark.sky	45	1:22	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0051.moon.dark.sky	45	1:24	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0052.moon.dark.sky	120	1:25	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0053.moon.dark.sky	120	1:29	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0054.moon.dark.sky	120	1:32	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	

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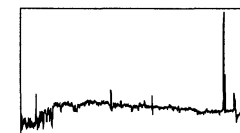
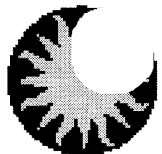
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0055.moon.dark.sky	120	1:35	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0056.COMP	30	1:38	21:21:57	-21:14:48	300	90	1.1	#130 Solar Sys	1	
0057.BDp284211	150	1:42	21:48:57.1	28:37:48	300	77	1.1	#130 Solar Sys	1	
0058.BDp284211	150	1:46	21:48:57.1	28:37:48	300	77	1.1	#130 Solar Sys	1	
0059.COMP	30	1:49	21:48:57.1	28:37:48	300	77	1.1	#130 Solar Sys	1	
0060.COMP	5	1:51	00:00:00	32:00:00	300	77	1.1	#130 Solar Sys	4	
0061.BIAS	0	1:54	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	4	normal combo setup
0062-0070.BIAS	0	1:55	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	4	
0071.FLAT	8	1:55	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	4	3-sec slit, tilt 610
0072-0080.FLAT	8	1:58	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	4	
0081-0090.BIAS	0	2:00	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	2	
0091-0100.FLAT	16	2:06	00:00:00	32:00:00	300	77	3.0	#130 Solar Sys	2	
0101.BDp284211	90	2:08	21:48:57.1	28:37:48	300	77	3.0	#56 Spectropho	2	
0102.BDp284211	90	2:10	21:48:57.1	28:37:48	300	77	3.0	#56 Spectropho	2	
0103.COMP	10	2:12	21:48:57.1	28:37:48	300	77	3.0	#56 Spectropho	2	
0104.cairnss_051	720	2:14	1:24:14.9	1:2:55	300	90	3.0	#64 Cluster In	4	
0105.COMP	5	2:26	1:24:14.9	1:2:55	300	90	3.0	#64 Cluster In	4	
0106.cairnss_052	360	2:27	1:12:8.6	-0:24:36	300	90	3.0	#64 Cluster In	4	
0107.COMP	5	2:33	1:12:8.6	-0:24:36	300	90	3.0	#64 Cluster In	4	
0108.cairnss_053	360	2:34	1:18:8.1	-2:34:3	300	90	3.0	#64 Cluster In	4	

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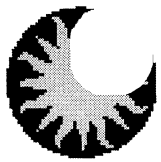
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0109.COMP	5	2:40	1:18:8.1	-2:34:3	300	90	3.0	#64 Cluster In	4	
0110.cairnss_054	360	2:41	1:24:28.6	-1:38:28	300	90	3.0	#64 Cluster In	4	
0111.COMP	5	2:47	1:24:28.6	-1:38:28	300	90	3.0	#64 Cluster In	4	
0112.cairnss_055	360	2:48	1:25:47.6	-1:20:40	300	90	3.0	#64 Cluster In	4	poor seeing all night long
0113.COMP	5	2:55	1:25:47.6	-1:20:40	300	90	3.0	#64 Cluster In	4	
0114.cairnss_056	720	2:55	1:28:25.7	-2:35:15	300	90	3.0	#64 Cluster In	4	
0115.COMP	5	3:08	1:28:25.7	-2:35:15	300	90	3.0	#64 Cluster In	4	
0116.cairnss_057	420	3:09	1:24:2.4	-1:39:25	300	90	3.0	#64 Cluster In	4	
0117.COMP	5	3:17	1:24:2.4	-1:39:25	300	90	3.0	#64 Cluster In	4	
0118.cairnss_058	600	3:17	1:26:17.7	-1:47:36	300	90	3.0	#64 Cluster In	4	
0119.COMP	5	3:28	1:26:17.7	-1:47:36	300	90	3.0	#64 Cluster In	4	
0120.cairnss_059	360	3:28	1:28:2.1	-0:44:17	300	90	3.0	#64 Cluster In	4	
0121.COMP	5	3:35	1:28:2.1	-0:44:17	300	90	3.0	#64 Cluster In	4	
0122.cairnss_060	480	3:35	1:14:4	-1:44:32	300	90	3.0	#64 Cluster In	4	
0123.COMP	5	3:44	1:14:4	-1:44:32	300	90	3.0	#64 Cluster In	4	
0124.cairnss_061	480	3:44	1:14:46.2	-0:0:4	300	90	3.0	#64 Cluster In	4	
0125.COMP	5	3:54	1:14:46.2	-0:0:4	300	90	3.0	#64 Cluster In	4	
0126.cairnss_062	480	3:54	1:29:58.4	-4:42:15	300	90	3.0	#64 Cluster In	4	
0127.COMP	5	4:03	1:29:58.4	-4:42:15	300	90	3.0	#64 Cluster In	4	
0128.cairnss_063	360	4:04	1:23:40.7	-1:49:48	300	90	3.0	#64 Cluster In	4	

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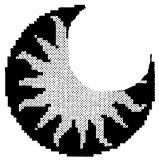
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0129.COMP	5	4:10	1:23:40.7	-1:49:48	300	90	3.0	#64 Cluster In	4	
0130.cairnss_064	480	4:11	1:26:35	-1:6:46	300	90	3.0	#64 Cluster In	4	
0131.COMP	5	4:19	1:26:35	-1:6:46	300	90	3.0	#64 Cluster In	4	
0132.cairnss_065	720	4:20	1:27:55	-1:38:26	300	90	3.0	#64 Cluster In	4	
0133.COMP	5	4:32	1:27:55	-1:38:26	300	90	3.0	#64 Cluster In	4	
0134.cairnsx_002	420	4:37	4:25:51.3	-8:33:38	300	90	3.0	#64 Cluster In	4	
0135.COMP	5	4:45	4:25:51.3	-8:33:38	300	90	3.0	#64 Cluster In	4	
0136.cairnsx_005	600	4:46	4:26:16.7	-8:47:58	300	90	3.0	#64 Cluster In	4	
0137.COMP	5	4:58	4:26:16.7	-8:47:58	300	90	3.0	#64 Cluster In	4	
0138.cairnsx_013	900	4:59	4:28:59.5	-9:6:47	300	90	3.0	#64 Cluster In	4	sup star get again
0139.COMP	5	5:14	4:28:59.5	-9:6:47	300	90	3.0	#64 Cluster In	4	
0140.cairnsx_014	720	5:15	4:29:12.7	-9:5:49	300	90	3.0	#64 Cluster In	4	
0141.COMP	5	5:28	4:29:12.7	-9:5:49	300	90	3.0	#64 Cluster In	4	
0142.cairnsx_001	300	5:29	4:45:11.5	-15:52:12	300	90	3.0	#64 Cluster In	4	
0143.COMP	5	5:34	4:45:11.5	-15:52:12	300	90	3.0	#64 Cluster In	4	
0144.cairnsx_003	360	5:35	4:45:13.1	-15:6:51	300	90	3.0	#64 Cluster In	4	
0145.COMP	5	5:41	4:45:13.1	-15:6:51	300	90	3.0	#64 Cluster In	4	
0146.cairnsx_004	300	5:42	4:43:12.9	-15:42:10	300	90	3.0	#64 Cluster In	4	
0147.COMP	5	5:47	4:43:12.9	-15:42:10	300	90	3.0	#64 Cluster In	4	
0148.cairnsx_006	480	5:48	4:47:10.4	-16:23:31	300	90	3.0	#64 Cluster In	4	

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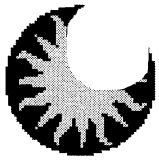
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0149.COMP	5	5:56	4:47:10.4	-16:23:31	300	90	3.0	#64 Cluster In	4	
0150.cairnsx_007	420	5:57	4:45:13.6	-15:53:15	300	90	3.0	#64 Cluster In	4	
0151.COMP	5	6:04	4:45:13.6	-15:53:15	300	90	3.0	#64 Cluster In	4	
0152.cairnsx_008	480	6:05	4:45:35	-16:1:16	300	90	3.0	#64 Cluster In	4	
0153.COMP	5	6:13	4:45:35	-16:1:16	300	90	3.0	#64 Cluster In	4	
0154.cairnsx_009	420	6:14	4:47:8.9	-16:20:43	300	90	3.0	#64 Cluster In	4	
0155.COMP	5	6:21	4:47:8.9	-16:20:43	300	90	3.0	#64 Cluster In	4	
0156.cairnsx_010	420	6:22	4:44:37.4	-15:55:23	300	90	3.0	#64 Cluster In	4	
0157.COMP	5	6:29	4:44:37.4	-15:55:23	300	90	3.0	#64 Cluster In	4	
0158.cairnsx_011	900	6:30	4:47:13.4	-15:55:23	300	90	3.0	#64 Cluster In	4	
0159.COMP	5	6:45	4:47:13.4	-15:55:23	300	90	3.0	#64 Cluster In	4	
0160.cairnsx_012	900	6:46	4:47:54.5	-15:38:15	300	90	3.0	#64 Cluster In	4	
0161.COMP	5	7:01	4:47:54.5	-15:38:15	300	90	3.0	#64 Cluster In	4	
0162.cairnsx_015	900	7:02	4:46:47.9	-16:3:38	300	90	3.0	#64 Cluster In	4	
0163.COMP	5	7:18	4:46:47.9	-16:3:38	300	90	3.0	#64 Cluster In	4	
0164.cairnsx_016	720	7:19	4:45:4.1	-15:49:19	300	90	3.0	#64 Cluster In	4	
0165.COMP	5	7:31	4:45:4.1	-15:49:19	300	90	3.0	#64 Cluster In	4	
0166.vso-17564	900	7:36	05:27:16.6	-5:13:45	300	0	3.0	#112 Orion PMS	4	
0167.COMP	5	7:51	05:27:16.6	-5:13:45	300	0	3.0	#112 Orion PMS	4	
0168.vso-17943	600	7:52	05:27:53.6	-5:29:58	300	0	3.0	#112 Orion PMS	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0169.COMP	5	8:02	05:27:53.6	-5:29:58	300	0	3.0	#112 Orion PMS	4	
0170.vso-18060	720	8:03	05:28:06.4	-5:27:12	300	0	3.0	#112 Orion PMS	4	
0171.COMP	5	8:15	05:28:06.4	-5:27:12	300	0	3.0	#112 Orion PMS	4	
0172.vso-18019	720	8:17	05:29:30.0	-4:39:19	300	0	3.0	#112 Orion PMS	4	
0173.COMP	5	8:30	05:29:30.0	-4:39:19	300	0	3.0	#112 Orion PMS	4	
0174.vso-19327	600	8:30	05:30:29.0	-5:33:13	300	0	3.0	#112 Orion PMS	4	
0175.COMP	5	8:41	05:30:29.0	-5:33:13	300	0	3.0	#112 Orion PMS	4	
0176.vso-18659	900	8:43	05:31:15.9	-5:05:14	300	25	3.0	#112 Orion PMS	4	
0177.COMP	5	8:58	05:31:15.9	-5:05:14	300	25	3.0	#112 Orion PMS	4	
0178.Hiltner600	150	9:00	06:42:37.2	02:11:25	300	2	3.0	#56 Spectropho	2	
0179.Hiltner600	150	9:03	06:42:37.2	02:11:25	300	2	3.0	#56 Spectropho	2	
0180.COMP	10	9:06	06:42:37.2	02:11:25	300	2	3.0	#56 Spectropho	2	
0181.vso-18744	900	9:08	05:31:38.1	-5:04:48	300	30	3.0	#112 Orion PMS	4	
0182.COMP	5	9:23	05:31:38.1	-5:04:48	300	30	3.0	#112 Orion PMS	4	
0183.vso-18842	1200	9:24	05:32:06.2	-4:56:09	300	30	3.0	#112 Orion PMS	4	
0184.COMP	5	9:45	05:32:06.2	-4:56:09	300	30	3.0	#112 Orion PMS	4	
0185.vso-38073	1200	9:46	06:06:55.5	-5:31:29	300	30	3.0	#112 Orion PMS	4	
0186.COMP	5	10:07	06:06:55.5	-5:31:29	300	30	3.0	#112 Orion PMS	4	
0187.vso-38117	900	10:08	06:06:59.5	-5:17:17	300	30	3.0	#112 Orion PMS	4	
0188.COMP	5	10:24	06:06:59.5	-5:17:17	300	30	3.0	#112 Orion PMS	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0189.2MJ0808043m153443	720	10:29	08:08:04.3	-15:34:43	300	0	3.0	#68 2MASS Reds	4	
0190.COMP	5	10:41	08:08:04.3	-15:34:43	300	0	3.0	#68 2MASS Reds	4	
0191.2MJ0808108m222526	600	10:43	08:08:10.8	-22:25:26	300	0	3.0	#68 2MASS Reds	4	
0192.COMP	5	10:53	08:08:10.8	-22:25:26	300	0	3.0	#68 2MASS Reds	4	
0193.2MJ0808409m184139	600	10:54	08:08:40.9	-18:41:39	300	0	3.0	#68 2MASS Reds	4	
0194.COMP	5	11:04	08:08:40.9	-18:41:39	300	0	3.0	#68 2MASS Reds	4	
0195.2MJ0810229m221855	600	11:05	08:10:22.9	-22:18:55	300	0	3.0	#68 2MASS Reds	2	gal has strong em, plus 2 stars
0196.COMP	10	11:16	08:10:22.9	-22:18:55	300	0	3.0	#68 2MASS Reds	2	
0197.2MJ0810349m224234	600	11:17	08:10:34.9	-22:42:34	300	0	3.0	#68 2MASS Reds	4	
0198.COMP	5	11:27	08:10:34.9	-22:42:34	300	0	3.0	#68 2MASS Reds	4	
0199.2MJ0814533m225240	480	11:29	08:14:53.3	-22:52:40	300	0	3.0	#68 2MASS Reds	4	
0200.COMP	5	11:37	08:14:53.3	-22:52:40	300	0	3.0	#68 2MASS Reds	4	
0201.N3377	300	11:39	10:45:02.6	+14:14:51	300	0	3.0	#57 Velocity S	4	
0202.COMP	5	11:44	10:45:02.6	+14:14:51	300	0	3.0	#57 Velocity S	4	
0203.sn2002ji	1200	11:46	11:22:53.1	+16:35:10	300	-40	3.0	#2 SN Observat	2	
0204.COMP	10	12:07	11:22:53.1	+16:35:10	300	-40	3.0	#2 SN Observat	2	
0205.Feige34	150	12:09	10:36:41.2	43:21:50	300	38	3.0	#56 Spectropho	2	
0206.Feige34	150	12:12	10:36:41.2	43:21:50	300	38	3.0	#56 Spectropho	2	
0207.Feige34	150	12:14	10:36:41.2	43:21:50	300	38	3.0	#56 Spectropho	2	
0208.COMP	10	12:17	10:36:41.2	43:21:50	300	38	3.0	#56 Spectropho	2	

UT Date 2002-12-09 Observers P BerlindColl. Focus 985 Grating/Grism 300

<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0209-0218.BIAS	0	12:20	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0219-0228.FLAT	8	12:24	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0229-0238.BIAS	0	12:26	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0239-0248.FLAT	16	12:32	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	
0249-0258.DARK	900	15:02	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	4	
0259-0268.DARK	900	17:34	10:36:41.2	43:21:50	300	90	3.0	#56 Spectropho	2	