

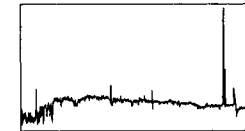
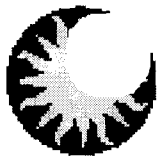
UT Date 2002-09-12 Observers M CalkinsColl. Focus 920 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	23:15	23:15:19	23:15:19	300	90	3.0	#2 SN Observat	4	
0002.DARK	900	23:30	23:30:26	23:30:26	300	90	3.0	#2 SN Observat	4	
0003.DARK	900	23:46	23:45:33	23:45:33	300	90	3.0	#2 SN Observat	4	
0004.DARK	900	0:01	00:00:40	00:00:40	300	90	3.0	#2 SN Observat	4	
0005.DARK	900	0:16	00:15:47	00:15:47	300	90	3.0	#2 SN Observat	4	
0006.DARK	900	0:31	00:30:53	00:30:53	300	90	3.0	#2 SN Observat	4	
0007.DARK	900	0:46	00:46:00	00:46:00	300	90	3.0	#2 SN Observat	4	
0008.DARK	900	1:01	01:01:07	01:01:07	300	90	3.0	#2 SN Observat	4	
0009.DARK	900	1:16	01:16:14	01:16:14	300	90	3.0	#2 SN Observat	4	
0010.DARK	900	1:31	01:31:21	01:31:21	300	90	3.0	#2 SN Observat	4	
0011.BIAS	0	1:55	01:54:40	01:54:40	300	90	3.0	#2 SN Observat	4	
0012.BIAS	0	1:55	01:54:47	01:54:47	300	90	3.0	#2 SN Observat	4	
0013.BIAS	0	1:55	01:54:55	01:54:55	300	90	3.0	#2 SN Observat	4	
0014.BIAS	0	1:55	01:55:02	01:55:02	300	90	3.0	#2 SN Observat	4	
0015.BIAS	0	1:55	01:55:09	01:55:09	300	90	3.0	#2 SN Observat	4	
0016.BIAS	0	1:55	01:55:16	01:55:16	300	90	3.0	#2 SN Observat	4	
0017.BIAS	0	1:55	01:55:24	01:55:24	300	90	3.0	#2 SN Observat	4	
0018.BIAS	0	1:56	01:55:31	01:55:31	300	90	3.0	#2 SN Observat	4	
0019.BIAS	0	1:56	01:55:38	01:55:38	300	90	3.0	#2 SN Observat	4	
0020.BIAS	0	1:56	01:55:46	01:55:46	300	90	3.0	#2 SN Observat	4	

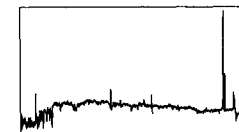
Reduved in 2 sets: before + includy 144 and after + includy 145

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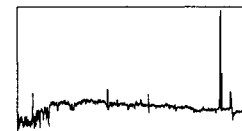
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0021.FLAT	6	1:56	01:56:17	01:56:17	300	90	3.0	#2 SN Observat	4	
0022.FLAT	6	1:57	01:56:30	01:56:30	300	90	3.0	#2 SN Observat	4	
0023.FLAT	6	1:57	01:56:43	01:56:43	300	90	3.0	#2 SN Observat	4	
0024.FLAT	6	1:57	01:56:56	01:56:56	300	90	3.0	#2 SN Observat	4	
0025.FLAT	6	1:57	01:57:09	01:57:09	300	90	3.0	#2 SN Observat	4	
0026.FLAT	6	1:57	01:57:21	01:57:21	300	90	3.0	#2 SN Observat	4	
0027.FLAT	6	1:58	01:57:34	01:57:34	300	90	3.0	#2 SN Observat	4	
0028.FLAT	6	1:58	01:57:47	01:57:47	300	90	3.0	#2 SN Observat	4	
0029.FLAT	6	1:58	01:58:00	01:58:00	300	90	3.0	#2 SN Observat	4	
0030.FLAT	6	1:58	01:58:13	01:58:13	300	90	3.0	#2 SN Observat	4	
0031.BIAS	0	1:59	01:58:46	01:58:46	300	90	3.0	#2 SN Observat	2	
0032.BIAS	0	1:59	01:58:59	01:58:59	300	90	3.0	#2 SN Observat	2	
0033.BIAS	0	1:59	01:59:12	01:59:12	300	90	3.0	#2 SN Observat	2	
0034.BIAS	0	1:59	01:59:25	01:59:25	300	90	3.0	#2 SN Observat	2	
0035.BIAS	0	2:00	01:59:38	01:59:38	300	90	3.0	#2 SN Observat	2	
0036.BIAS	0	2:00	01:59:51	01:59:51	300	90	3.0	#2 SN Observat	2	
0037.BIAS	0	2:00	02:00:04	02:00:04	300	90	3.0	#2 SN Observat	2	
0038.BIAS	0	2:00	02:00:17	02:00:17	300	90	3.0	#2 SN Observat	2	
0039.BIAS	0	2:01	02:00:30	02:00:30	300	90	3.0	#2 SN Observat	2	
0040.BIAS	0	2:01	02:00:42	02:00:42	300	90	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0041.FLAT	12	2:02	02:01:34	02:01:34	300	90	3.0	#2 SN Observat	2	monsoons ending
0042.FLAT	12	2:02	02:01:59	02:01:59	300	90	3.0	#2 SN Observat	2	
0043.FLAT	12	2:02	02:02:23	02:02:23	300	90	3.0	#2 SN Observat	2	
0044.FLAT	12	2:03	02:02:48	02:02:48	300	90	3.0	#2 SN Observat	2	
0045.FLAT	12	2:03	02:03:12	02:03:12	300	90	3.0	#2 SN Observat	2	
0046.FLAT	12	2:04	02:03:37	02:03:37	300	90	3.0	#2 SN Observat	2	
0047.FLAT	12	2:04	02:04:01	02:04:01	300	90	3.0	#2 SN Observat	2	
0048.FLAT	12	2:04	02:04:26	02:04:26	300	90	3.0	#2 SN Observat	2	
0049.FLAT	12	2:05	02:04:50	02:04:50	300	90	3.0	#2 SN Observat	2	
0050.FLAT	12	2:05	02:05:15	02:05:15	300	90	3.0	#2 SN Observat	2	
0051.BDp332642	150	2:17	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0052.COMP	5	2:20	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	4	
0053.BDp332642	120	2:21	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0054.COMP	12	2:24	15:50:03	33:05:49	300	82	3.0	#56 Spectropho	2	
0055.sn2002er	1200	2:29	17:11:29.8	+07:59:44	300	34	3.0	#2 SN Observat	2	
0056.COMP	12	2:49	17:11:29.8	+07:59:44	300	34	3.0	#2 SN Observat	2	
0057.Kaz207	900	2:53	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	
0058.COMP	12	3:08	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	
0059.Kaz208	240	3:09	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	
0060.COMP	12	3:13	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	

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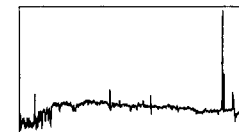
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0061.Kaz209	900	3:14	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	
0062.COMP	12	3:30	18:33:32.6	67:09:03	300	90	3.0	#68 2MASS Surv	2	
0063.N7331	180	4:06	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	2	
0064.COMP	12	4:10	22:34:46.9	+34:09:43	300	90	3.0	#57 Velocity S	2	
0065.DG_472	120	4:14	21:52:20.1	62:27:58	300	90	3.0	#137 Intermedi	2	
0066.COMP	12	4:17	21:52:20.1	62:27:58	300	90	3.0	#137 Intermedi	2	
0067.DG_513	30	4:18	21:52:32.8	62:23:57	300	90	3.0	#137 Intermedi	2	
0068.COMP	12	4:18	21:52:32.8	62:23:57	300	90	3.0	#137 Intermedi	2	
0069.DG_529	90	4:19	21:52:39.2	62:44:49	300	90	3.0	#137 Intermedi	2	
0070.COMP	12	4:21	21:52:39.2	62:44:49	300	90	3.0	#137 Intermedi	2	
0071.DG_531	45	4:22	21:52:39.2	62:46:58	300	90	3.0	#137 Intermedi	2	
0072.COMP	12	4:23	21:52:39.2	62:46:58	300	90	3.0	#137 Intermedi	2	
0073.DG_912	60	4:24	21:55:47.5	62:35:43	300	90	3.0	#137 Intermedi	2	
0074.COMP	12	4:26	21:55:47.5	62:35:43	300	90	3.0	#137 Intermedi	2	
0075.DG_913	90	4:27	21:55:47.6	62:37:54	300	90	3.0	#137 Intermedi	2	
0076.COMP	12	4:29	21:55:47.6	62:37:54	300	90	3.0	#137 Intermedi	2	
0077.DG_940	30	4:29	21:56:07.6	62:34:07	300	90	3.0	#137 Intermedi	2	
0078.COMP	12	4:30	21:56:07.6	62:34:07	300	90	3.0	#137 Intermedi	2	
0079.DG_946	30	4:31	21:56:10.7	62:34:55	300	90	3.0	#137 Intermedi	2	
0080.COMP	12	4:32	21:56:10.7	62:34:55	300	90	3.0	#137 Intermedi	2	

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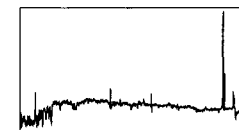
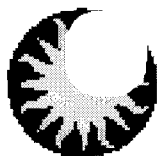
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0081.DG_39	180	4:34	21:53:27.7	62:35:18	300	100	3.0	#137 Intermedi	2	
0082.COMP	12	4:37	21:53:27.7	62:35:18	300	100	3.0	#137 Intermedi	2	
0083.DG_47	240	4:38	21:53:55.5	62:36:18	300	90	3.0	#137 Intermedi	2	
0084.COMP	12	4:43	21:53:55.5	62:36:18	300	90	3.0	#137 Intermedi	2	
0085.DG_48	240	4:44	21:54:13.2	62:43:09	300	90	3.0	#137 Intermedi	2	
0086.COMP	12	4:48	21:54:13.2	62:43:09	300	90	3.0	#137 Intermedi	2	
0087.DG_64	480	4:49	21:53:22.3	62:34:25	300	90	3.0	#137 Intermedi	2	
0088.COMP	12	4:58	21:53:22.3	62:34:25	300	90	3.0	#137 Intermedi	2	
0089.DG_49	240	4:59	21:53:51.8	62:33:25	300	90	3.0	#137 Intermedi	2	
0090.COMP	12	5:03	21:53:51.8	62:33:25	300	90	3.0	#137 Intermedi	2	
0091.DG_50	300	5:05	21:53:35.3	62:30:03	300	90	3.0	#137 Intermedi	2	
0092.COMP	12	5:10	21:53:35.3	62:30:03	300	90	3.0	#137 Intermedi	2	
0093.DG_51	360	5:11	21:54:05.7	62:39:00	300	90	3.0	#137 Intermedi	2	
0094.COMP	12	5:18	21:54:05.7	62:39:00	300	90	3.0	#137 Intermedi	2	
0095.DG_52	300	5:19	21:55:19.8	62:39:15	300	90	3.0	#137 Intermedi	2	
0096.COMP	12	5:24	21:55:19.8	62:39:15	300	90	3.0	#137 Intermedi	2	
0097.DG_53	360	5:25	21:52:54.1	62:41:54	300	90	3.0	#137 Intermedi	2	
0098.COMP	12	5:32	21:52:54.1	62:41:54	300	90	3.0	#137 Intermedi	2	
0099.DG_54	360	5:33	21:54:27.7	62:39:57	300	90	3.0	#137 Intermedi	2	
0100.COMP	12	5:39	21:54:27.7	62:39:57	300	90	3.0	#137 Intermedi	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0101.DG_55	360	5:40	21:53:33.0	62:37:03	300	90	3.0	#137 Intermedi	2	
0102.COMP	12	5:47	21:53:33.0	62:37:03	300	90	3.0	#137 Intermedi	2	
0103.DG_56	360	5:48	21:54:07.2	62:44:26	300	90	3.0	#137 Intermedi	2	
0104.COMP	12	5:54	21:54:07.2	62:44:26	300	90	3.0	#137 Intermedi	2	
0105.DG_57	360	5:55	21:54:44.5	62:29:38	300	90	3.0	#137 Intermedi	2	
0106.COMP	12	6:02	21:54:44.5	62:29:38	300	90	3.0	#137 Intermedi	2	
0107.DG_58	360	6:03	21:54:15.7	62:36:04	300	90	3.0	#137 Intermedi	2	
0108.COMP	12	6:09	21:54:15.7	62:36:04	300	90	3.0	#137 Intermedi	2	
0109.DG_59	360	6:10	21:54:39.3	62:36:22	300	90	3.0	#137 Intermedi	2	
0110.COMP	12	6:17	21:54:39.3	62:36:22	300	90	3.0	#137 Intermedi	2	
0111.DG_60	330	6:17	21:54:33.4	62:28:53	300	90	3.0	#137 Intermedi	2	
0112.COMP	12	6:23	21:54:33.4	62:28:53	300	90	3.0	#137 Intermedi	2	
0113.DG_61	360	6:25	21:53:30.0	62:30:10	300	90	3.0	#137 Intermedi	2	
0114.COMP	12	6:31	21:53:30.0	62:30:10	300	90	3.0	#137 Intermedi	2	
0115.DG_62	420	6:32	21:54:30.2	62:31:16	300	90	3.0	#137 Intermedi	2	
0116.COMP	12	6:40	21:54:30.2	62:31:16	300	90	3.0	#137 Intermedi	2	
0117.DG_65	420	6:41	21:54:36.7	62:34:00	300	90	3.0	#137 Intermedi	2	
0118.COMP	12	6:48	21:54:36.7	62:34:00	300	90	3.0	#137 Intermedi	2	
0119.DG_67	480	6:49	21:52:59.8	62:42:06	300	90	3.0	#137 Intermedi	2	row=75
0120.COMP	12	6:58	21:52:59.8	62:42:06	300	90	3.0	#137 Intermedi	2	

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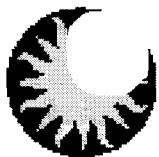
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0121.sb118	720	7:04	23:59:01.2	+18:50:02	300	90	3.0	#135 Starburst	2	row=75
0122.COMP	12	7:16	23:59:01.2	+18:50:02	300	90	3.0	#135 Starburst	2	
0123.sb116	1200	7:18	23:48:41.7	+02:14:22	300	90	3.0	#135 Starburst	2	
0124.COMP	12	7:39	23:48:41.7	+02:14:22	300	90	3.0	#135 Starburst	2	
0125.sb119	1200	7:41	23:59:36.8	+14:48:25	300	45	3.0	#135 Starburst	2	
0126.COMP	12	8:02	23:59:36.8	+14:48:25	300	45	3.0	#135 Starburst	2	
0127.sb117	480	8:03	23:55:44.3	+30:12:44	300	90	3.0	#135 Starburst	2	
0128.COMP	12	8:12	23:55:44.3	+30:12:44	300	90	3.0	#135 Starburst	2	
0129.sb8	660	8:16	00:36:10.6	+04:38:07	300	50	3.0	#135 Starburst	2	
0130.COMP	12	8:27	00:36:10.6	+04:38:07	300	50	3.0	#135 Starburst	2	
0131.sb14	540	8:29	01:11:30.9	+01:19:17	300	110	3.0	#135 Starburst	2	
0132.COMP	12	8:39	01:11:30.9	+01:19:17	300	110	3.0	#135 Starburst	2	
0133.sb12	540	8:41	01:03:04.7	+17:45:02	300	30	3.0	#135 Starburst	2	
0134.COMP	12	8:51	01:03:04.7	+17:45:02	300	30	3.0	#135 Starburst	2	
0135.sb15	660	8:53	01:19:32.9	+14:52:19	300	90	3.0	#135 Starburst	2	
0136.COMP	12	9:04	01:19:32.9	+14:52:19	300	90	3.0	#135 Starburst	2	
0137.sb15a	480	9:05	01:19:33.0	+14:52:35	300	90	3.0	#135 Starburst	2	
0138.COMP	12	9:13	01:19:33.0	+14:52:35	300	90	3.0	#135 Starburst	2	
0139.sb13p13a	780	9:16	01:11:21.2	+27:55:41	300	45	3.0	#135 Starburst	2	sb13=row89, 13a=row67
0140.COMP	12	9:29	01:11:21.2	+27:55:41	300	45	3.0	#135 Starburst	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0141.sb18p18a	720	9:33	01:22:43.1	+26:52:00	300	100	3.0	#135 Starburst	2	sb18=row65, 18a=92
0142.COMP	12	9:46	01:22:43.1	+26:52:00	300	100	3.0	#135 Starburst	2	
0143.sb16	480	9:49	01:19:44.8	+03:24:36	300	-30	3.0	#135 Starburst	2	
0144.COMP	12	9:57	01:19:44.8	+03:24:36	300	-30	3.0	#135 Starburst	2	
0145.sb19	420	10:04	01:34:59.3	+35:02:22	300	90	3.0	#135 Starburst	2	
0146.COMP	12	10:12	01:34:59.3	+35:02:22	300	90	3.0	#135 Starburst	2	
0147.sn2002fb	1200	10:15	01:57:50.3	36:20:35	300	-39	3.0	#2 SN Observat	2	row=79
0148.COMP	12	10:36	01:57:50.3	36:20:35	300	-39	3.0	#2 SN Observat	2	
0149.0o2589	5	10:38	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0150.0o2589	5	10:39	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0151.0o2589	5	10:39	02:22:53.3	57:14:42	300	90	3.0	#83 H+Chi Per	2	
0152.COMP	12	10:40	02:22:53.3	57:14:42	300	-39	3.0	#83 H+Chi Per	2	
0153.sn2002es	1200	10:43	03:23:47.2	40:33:53	300	47	3.0	#2 SN Observat	2	
0154.COMP	12	11:03	03:23:47.2	40:33:53	300	47	3.0	#2 SN Observat	2	
0155.BGGem	300	11:07	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0156.COMP	12	11:13	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0157.BGGem	1200	11:14	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0158.COMP	12	11:34	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0159.a496k_001	180	11:44	4:28:20.7	-17:35:43	300	90	3.0	#64 Cluster In	2	
0160.COMP	12	11:47	4:28:20.7	-17:35:43	300	90	3.0	#64 Cluster In	2	

*slightly out of focus from file 145 on -*



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0161.a496k_003	150	11:48	4:40:16.9	-16:2:33	300	90	3.0	#64 Cluster In	2	
0162.COMP	12	11:51	4:40:16.9	-16:2:33	300	90	3.0	#64 Cluster In	2	
0163.a496k_004	150	11:53	4:43:12.9	-15:42:11	300	90	3.0	#64 Cluster In	2	
0164.COMP	12	11:56	4:43:12.9	-15:42:11	300	90	3.0	#64 Cluster In	2	
0165.a496k_006	240	11:57	4:40:11.6	-13:13:41	300	90	3.0	#64 Cluster In	2	
0166.COMP	12	12:01	4:40:11.6	-13:13:41	300	90	3.0	#64 Cluster In	2	
0167.a496k_007	150	12:02	4:45:13.1	-15:6:51	300	90	3.0	#64 Cluster In	2	
0168.COMP	12	12:05	4:45:13.1	-15:6:51	300	90	3.0	#64 Cluster In	2	
0169.a496k_008	150	12:06	4:27:32.8	-12:9:36	300	90	3.0	#64 Cluster In	2	
0170.COMP	12	12:09	4:27:32.8	-12:9:36	300	90	3.0	#64 Cluster In	2	
0171.a496k_009	210	12:10	4:28:16.3	-12:9:16	300	90	3.0	#64 Cluster In	2	<i>not long enough</i>
0172.COMP	12	12:14	4:28:16.3	-12:9:16	300	90	3.0	#64 Cluster In	2	
0173.Hiltner600	120	12:20	06:42:37.2	02:11:25	300	-45	3.0	#56 Spectropho	4	
0174.COMP	12	12:23	06:42:37.2	02:11:25	300	-45	3.0	#56 Spectropho	4	
0175.Hiltner600	90	12:24	06:42:37.2	02:11:25	300	-45	3.0	#56 Spectropho	2	
0176.COMP	12	12:26	06:42:37.2	02:11:25	300	-45	3.0	#56 Spectropho	2	
0177-0186.BIAS	0	12:34	06:42:37.2	02:11:25	300	-45	3.0	#57 Velocity S	4	
0187-0196.FLAT	6	12:39	06:42:37.2	02:11:25	300	-45	3.0	#57 Velocity S	4	
0197-0206.BIAS	0	12:41	06:42:37.2	02:11:25	300	-45	3.0	#57 Velocity S	2	
0207-0216.FLAT	12	12:45	06:42:37.2	02:11:25	300	90	3.0	#57 Velocity S	2	



UT Date 2002-09-12 Observers M Calkins

Coll. Focus 920 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>
0217-0226.DARK	900	15:07	06:42:37.2	02:11:25	300	90	3.0	#57 Velocity S	2	