



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12190

UT Date 2004-03-24 Observers M Calkins

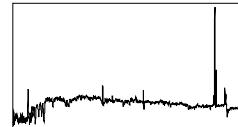
Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	23:31	04:29:06.1	+31:29:13	300	90	3.0	#126	4	
0002.DARK	900	23:46	04:44:15.5	+31:29:17	300	90	3.0	#126	4	
0003.DARK	900	0:01	04:59:25.0	+31:29:22	300	90	3.0	#126	4	
0004.DARK	900	0:16	05:14:34.5	+31:29:27	300	90	3.0	#126	4	
0005.DARK	900	0:31	05:29:44.2	+31:29:32	300	90	3.0	#126	4	
0006.DARK	900	0:46	05:44:51.6	+31:29:37	300	90	3.0	#126	4	
0007.DARK	900	1:01	06:00:02.0	+31:29:42	300	90	3.0	#126	4	
0008.DARK	900	1:17	06:15:12.3	+31:29:48	300	90	3.0	#126	4	
0009.DARK	900	1:32	06:30:19.2	+31:29:53	300	90	3.0	#126	4	
0010.DARK	900	1:47	06:45:29.4	+31:29:58	300	90	3.0	#126	4	
0011-0012.BIAS	0	2:02	06:46:03.1	+31:29:58	300	90	3.0	#126	4	
0013-0020.BIAS	0	2:03	06:46:58.8	+31:29:59	300	90	3.0	#126	4	
0021-0027.FLAT	6	2:05	06:48:44.4	+31:29:59	300	90	3.0	#126	4	
0028-0030.FLAT	6	2:06	06:49:19.2	+31:30:00	300	90	3.0	#126	4	
0031-0039.BIAS	0	2:08	06:51:30.7	+31:30:00	300	90	3.0	#126	2	
0040.BIAS	0	2:08	06:51:43.6	+31:30:01	300	90	3.0	#126	2	
0041-0045.FLAT	12	2:10	06:54:20.6	+31:30:01	300	90	3.0	#126	2	
0046-0050.FLAT	12	2:12	06:56:24.0	+31:30:02	300	90	3.0	#126	2	
0051.Hiltner600	70	2:52	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	4	
0052.Hiltner600	70	2:53	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	4	



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12191

UT Date 2004-03-24 Observers M Calkins

Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0053.COMP	5	2:55	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	4	
0054.Hiltner600	60	2:56	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	2	
0055.Hiltner600	60	2:57	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	2	
0056.COMP	12	2:59	06:42:37.2	02:11:25	300	20	3.0	#56 Spectropho	2	
0057.Akn120	420	3:01	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0058.COMP	12	3:09	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0059.vso-82338	720	3:11	05:33:09.9	+01:34:56	300	90	3.0	#112 Orion PMS	2	
0060.COMP	12	3:23	05:33:09.9	+01:34:56	300	90	3.0	#112 Orion PMS	2	
0061.vso-84748	720	3:25	05:34:17.5	+01:52:27	300	90	3.0	#112 Orion PMS	2	
0062.COMP	12	3:37	05:34:17.5	+01:52:27	300	90	3.0	#112 Orion PMS	2	
0063.vso-85046	900	3:39	05:35:49.4	+01:28:03	300	90	3.0	#112 Orion PMS	2	
0064.COMP	12	3:55	05:35:49.4	+01:28:03	300	90	3.0	#112 Orion PMS	2	
0065.vso-85106	720	3:56	05:35:51.4	+01:23:05	300	90	3.0	#112 Orion PMS	2	
0066.COMP	12	4:08	05:35:51.4	+01:23:05	300	90	3.0	#112 Orion PMS	2	
0067.vso-86655	780	4:12	05:35:22.3	+01:54:38	300	90	3.0	#112 Orion PMS	2	
0068.COMP	12	4:26	05:35:22.3	+01:54:38	300	90	3.0	#112 Orion PMS	2	
0069.vso-86980	840	4:28	05:35:34.2	+02:04:57	300	90	3.0	#112 Orion PMS	2	
0070.COMP	12	4:43	05:35:34.2	+02:04:57	300	90	3.0	#112 Orion PMS	2	
0071.BGGem	300	4:46	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0072.BGGem	1200	4:52	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12192

UT Date 2004-03-24 Observers M Calkins

Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0073.COMP	12	5:12	6:03:31	27:41:50	300	90	3.0	#12 Symbiotic	2	
0074.085954p13180_b	1200	5:14	9:2:39.3	13:7:4	300	90	3.0	#113 Interacti	2	
0075.085954p13180_b	1200	5:35	9:2:39.3	13:7:4	300	90	3.0	#113 Interacti	2	
0076.COMP	12	5:55	9:2:39.3	13:7:4	300	90	3.0	#113 Interacti	2	
0077.090700p07230_c	1020	6:02	9:9:53.4	7:8:21	300	12	3.0	#113 Interacti	2	
0078.090700p07230_c	1020	6:19	9:9:53.4	7:8:21	300	12	3.0	#113 Interacti	2	
0079.COMP	12	6:36	9:9:53.4	7:8:21	300	12	3.0	#113 Interacti	2	
0080.091048p29230_c	1260	6:41	9:13:36.6	29:9:40	300	35	3.0	#113 Interacti	2	
0081.091048p29230_c	1260	7:02	9:13:36.6	29:9:40	300	35	3.0	#113 Interacti	2	
0082.COMP	12	7:23	9:13:36.6	29:9:40	300	35	3.0	#113 Interacti	2	
0083.HD84937	7	7:27	09:48:56.1	13:44:39	300	55	3.0	#56 Spectropho	2	
0084.HD84937	7	7:27	09:48:56.1	13:44:39	300	55	3.0	#56 Spectropho	2	
0085.HD84937	7	7:28	09:48:56.1	13:44:39	300	55	3.0	#56 Spectropho	2	
0086.COMP	12	7:28	09:48:56.1	13:44:39	300	55	3.0	#56 Spectropho	2	
0087.sn2004at	1200	7:31	10:58:45.1	+59:29:12	300	-33	3.0	#2 SN Observat	2	
0088.COMP	12	7:52	10:58:45.1	+59:29:12	300	-33	3.0	#2 SN Observat	2	
0089.sn2004as	1200	7:56	11:25:39.1	+22:49:49	300	58	3.0	#2 SN Observat	2	
0090.COMP	12	8:16	11:25:39.1	+22:49:49	300	58	3.0	#2 SN Observat	2	
0091.sn2004aw	1200	8:20	11:57:50.2	+25:15:55	300	70	3.0	#2 SN Observat	2	
0092.COMP	12	8:40	11:57:50.2	+25:15:55	300	70	3.0	#2 SN Observat	2	



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12193

UT Date 2004-03-24 Observers M Calkins

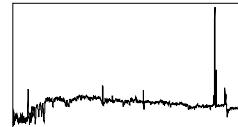
Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0093.snn5939	1200	8:44	15:24:46.7	68:43:56	300	55	3.0	#2 SN Observat	2	
0094.COMP	12	9:04	15:24:46.7	68:43:56	300	55	3.0	#2 SN Observat	2	
0095.hs2459	588	9:11	13:09:42.5	42:03:28	600	90	2.0	#122 Halo Star	4	2arcsec, 600L, tilt=440
0096.COMP	10	9:21	13:09:42.5	42:03:28	600	90	2.0	#122 Halo Star	4	
0097.hs2460	462	9:27	13:10:20.6	76:03:19	600	90	2.0	#122 Halo Star	4	
0098.COMP	10	9:35	13:10:20.6	76:03:19	600	90	2.0	#122 Halo Star	4	
0099.hs2461	510	9:36	13:11:02.1	67:29:17	600	90	2.0	#122 Halo Star	4	
0100.COMP	10	9:45	13:11:02.1	67:29:17	600	90	2.0	#122 Halo Star	4	
0101.hs2462	252	9:46	13:11:17.4	69:07:40	600	90	2.0	#122 Halo Star	4	
0102.COMP	10	9:51	13:11:17.4	69:07:40	600	90	2.0	#122 Halo Star	4	
0103.hs2463	204	9:52	13:11:27.2	68:50:36	600	90	2.0	#122 Halo Star	4	
0104.COMP	10	9:56	13:11:27.2	68:50:36	600	90	2.0	#122 Halo Star	4	
0105.hs2464	324	9:57	13:11:31.9	52:50:25	600	90	2.0	#122 Halo Star	4	
0106.COMP	10	10:03	13:11:31.9	52:50:25	600	90	2.0	#122 Halo Star	4	
0107.hs2465	366	10:04	13:11:38.7	70:03:38	600	90	2.0	#122 Halo Star	4	
0108.COMP	10	10:11	13:11:38.7	70:03:38	600	90	2.0	#122 Halo Star	4	
0109.hs2466	558	10:12	13:11:55.0	40:27:40	600	90	2.0	#122 Halo Star	4	
0110.COMP	10	10:22	13:11:55.0	40:27:40	600	90	2.0	#122 Halo Star	4	
0111.hs2467	450	10:23	13:12:01.5	37:26:55	600	90	2.0	#122 Halo Star	4	
0112.COMP	10	10:31	13:12:01.5	37:26:55	600	90	2.0	#122 Halo Star	4	



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12194

UT Date 2004-03-24 Observers M Calkins

Coll. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0113.hs2468	282	10:45	13:12:06.5	70:52:58	600	90	2.0	#122 Halo Star	4	
0114.COMP	10	10:50	13:12:06.5	70:52:58	600	90	2.0	#122 Halo Star	4	
0115.hs2470	192	10:51	13:12:38.2	70:57:29	600	90	2.0	#122 Halo Star	4	
0116.COMP	10	10:54	13:12:38.2	70:57:29	600	90	2.0	#122 Halo Star	4	
0117.hs2471	174	10:55	13:12:55.6	71:14:43	600	90	2.0	#122 Halo Star	4	
0118.COMP	10	10:59	13:12:55.6	71:14:43	600	90	2.0	#122 Halo Star	4	
0119.hs2474	192	11:04	13:13:48.9	80:25:12	600	90	2.0	#122 Halo Star	4	
0120.COMP	10	11:08	13:13:48.9	80:25:12	600	90	2.0	#122 Halo Star	4	
0121.hs2469	264	11:09	13:12:25.1	54:43:41	600	90	2.0	#122 Halo Star	4	
0122.COMP	10	11:14	13:12:25.1	54:43:41	600	90	2.0	#122 Halo Star	4	
0123.hs2472	306	11:15	13:12:57.8	58:05:11	600	90	2.0	#122 Halo Star	4	
0124.COMP	10	11:20	13:12:57.8	58:05:11	600	90	2.0	#122 Halo Star	4	
0125.hs2473	258	11:21	13:13:39.2	34:27:17	600	90	2.0	#122 Halo Star	4	
0126.COMP	10	11:28	13:13:39.2	34:27:17	600	90	2.0	#122 Halo Star	4	
0127.BDp332642	60	11:29	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0128.COMP	10	11:31	15:50:03.0	33:05:49	600	90	2.0	#56 Spectropho	4	
0129-0138.FLAT	40	11:39	15:50:03.0	33:05:49	600	90	2.0	#122 Halo Star	4	
0139.BDp332642	60	11:46	15:50:03.0	33:05:49	300	97	3.0	#56 Spectropho	2	combo setup
0140.COMP	12	11:47	15:50:03.0	33:05:49	300	97	3.0	#56 Spectropho	2	
0141.sn2004ao	1200	11:50	17:28:09.3	+07:24:55	300	-26	3.0	#2 SN Observat	2	row=74



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



Page 12195

UT Date 2004-03-24 Observers M CalkinsColl. Focus 980 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0142.COMP	12	12:10	17:28:09.3	+07:24:55	300	-26	3.0	#2 SN Observat	2	
0143.3C390.3	360	12:15	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0144.3C390.3	360	12:21	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0145.COMP	12	12:27	18:42:09.1	79:46:17	300	90	3.0	#6 AGN Monitor	2	
0146.HatKepler	70	12:30	19:57:57.3	33:53:1	300	90	3.0	#126	2	need to shorten exposures...
0147.HatKepler	50	12:31	19:57:57.3	33:53:1	300	90	3.0	#126	2	
0148.HatKepler	50	12:32	19:57:57.3	33:53:1	300	90	3.0	#126	2	
0149.HatKepler	50	12:33	19:57:57.3	33:53:1	300	90	3.0	#126	2	
0150.COMP	12	12:34	19:57:57.3	33:53:1	300	90	3.0	#126	2	
0151.FineFoc	60	12:38	16:56:22.7	31:00:40	300	90	3.0	#126	1	
0152-0161.BIAS	0	12:45	16:56:22.7	31:00:40	300	90	3.0	#126	4	
0162-0171.FLAT	6	12:47	16:56:22.7	31:00:40	300	90	3.0	#126	4	
0172-0181.BIAS	0	12:50	16:56:22.7	31:00:40	300	90	3.0	#126	2	
0182-0191.FLAT	12	12:54	16:56:22.7	31:00:40	300	90	3.0	#126	2	
0192-0201.DARK	900	15:14	16:56:22.7	31:00:40	300	90	3.0	#126	2	