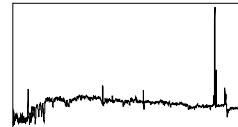




WHIPPLE OBSERVATORY

FAST SPECTROGRAPH LOG



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	0:18	02:36:34.0	31:29:53	300	90	3.0	#56 Spectropho	4	
0002.DARK	900	0:18	02:51:41.0	31:29:54	300	90	3.0	#56 Spectropho	4	
0003.DARK	900	0:18	03:06:52.0	31:29:56	300	90	3.0	#56 Spectropho	4	
0004.DARK	900	0:18	03:21:59.0	31:29:57	300	90	3.0	#56 Spectropho	4	
0005.DARK	900	0:18	03:37:10.0	31:29:59	300	90	3.0	#56 Spectropho	4	
0006-0013.BIAS	0	1:36	03:39:42.0	31:29:59	300	90	3.0	#56 Spectropho	4	
0014-0015.BIAS	0	1:36	03:39:55.0	31:30:00	300	90	3.0	#56 Spectropho	4	
0016-0025.FLAT	6	1:39	03:42:57.0	31:30:00	300	90	3.0	#56 Spectropho	4	
0026-0035.BIAS	0	1:41	03:45:21.0	31:30:00	300	90	3.0	#56 Spectropho	2	
0036-0045.FLAT	12	1:47	03:51:11.0	31:30:01	300	90	3.0	#56 Spectropho	2	
0046.Hiltner600	60	1:47	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0047.Hiltner600	60	1:47	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0048.COMP	5	1:47	06:42:37.2	02:11:25	300	90	3.0	#56 Spectropho	4	
0049.Feige25	120	1:47	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	2	
0050.Feige25	120	1:47	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	2	
0051.COMP	12	1:47	02:36:00	05:15:16	300	90	3.0	#56 Spectropho	2	
0052.Feige25	120	1:47	02:36:00	05:15:16	300	41	3.0	#56 Spectropho	2	
0053.Feige25	120	1:47	02:36:00	05:15:16	300	41	3.0	#56 Spectropho	2	
0054.COMP	12	1:47	02:36:00	05:15:16	300	41	3.0	#56 Spectropho	2	
0055.NGC1700	240	1:47	04:56:58.1	-04:52:22	300	90	3.0	#57 Velocity S	2	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0056.COMP	12	1:47	04:56:58.1	-04:52:22	300	90	3.0	#57 Velocity S	2	
0057.sn2002ap	240	1:47	01:36:23.8	+15:45:13	300	62	3.0	#2 SN Observat	2	
0058.sn2002ap	240	1:47	01:36:23.8	+15:45:13	300	62	3.0	#2 SN Observat	2	
0059.COMP	12	1:47	01:36:23.8	+15:45:13	300	62	3.0	#2 SN Observat	2	
0060.Akn120	180	1:47	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0061.COMP	12	1:47	05:13:38.0	-00:12:15	300	90	3.0	#6 AGN Monitor	2	
0062.a496_549	1200	1:47	04:24:09.7	-10:39:06	300	90	3.0	#64 Cluster In	2	
0063.COMP	12	1:47	04:24:09.7	-10:39:06	300	90	3.0	#64 Cluster In	2	
0064.a496_558	1200	1:47	04:25:39.5	-18:08:03	300	90	3.0	#64 Cluster In	2	
0065.COMP	12	1:47	04:25:39.5	-18:08:03	300	90	3.0	#64 Cluster In	2	
0066.a496_569	1200	1:47	04:38:48.2	-16:30:28	300	90	3.0	#64 Cluster In	2	
0067.COMP	12	1:47	04:38:48.2	-16:30:28	300	90	3.0	#64 Cluster In	2	
0068.sn2002X1	1200	1:47	06:08:06.3	-23:59:13	300	4	3.0	#2 SN Observat	2	
0069.COMP	12	1:47	06:08:06.3	-23:59:13	300	4	3.0	#2 SN Observat	2	
0070.BGGem	300	1:47	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0071.COMP	12	1:47	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0072.BGGem	1200	1:47	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0073.COMP	12	1:47	6:03:31	27:41:50	300	90	3.0	#100 BGGem	2	
0074.sn2002X2	1200	1:47	09:34:37.5	+05:50:15	300	-46	3.0	#2 SN Observat	2	
0075.COMP	12	1:47	09:34:37.5	+05:50:15	300	-46	3.0	#2 SN Observat	2	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0076.FLAT	45	1:47	8:51:26.1	11:53:51	600	90	2.0	#10 M67 stars	2	600L 2arcsec tilt=430
0077-0085.FLAT	45	5:55	8:51:26.1	11:53:51	600	90	2.0	#10 M67 stars	2	
0086.Feige34	120	5:55	10:36:41.2	43:21:50	600	82	2.0	#56 Spectropho	2	
0087.COMP	40	5:55	10:36:41.2	43:21:50	600	82	2.0	#56 Spectropho	2	
0088.HD91190	2	5:55	10:30:54.0	+75:58:17	600	43	2.0	#10 M67 stars	2	
0089.COMP	40	5:55	10:30:54.0	+75:58:17	600	43	2.0	#10 M67 stars	2	
0090.m67_6494	240	5:55	8:51:26.1	11:53:51	600	-20	2.0	#10 M67 stars	2	seeing getting worse
0091.COMP	40	5:55	8:51:26.1	11:53:51	600	-20	2.0	#10 M67 stars	2	
0092.m67_5763	600	5:55	8:51:24.1	11:47:09	600	-10	2.0	#10 M67 stars	2	
0093.m67_5763	600	5:55	8:51:24.1	11:47:09	600	-10	2.0	#10 M67 stars	2	
0094.COMP	40	5:55	8:51:24.1	11:47:09	600	-10	2.0	#10 M67 stars	2	
0095.m67_6474	240	5:55	8:50:21.1	12:21:11	600	-3	2.0	#10 M67 stars	2	
0096.COMP	40	5:55	8:50:21.1	12:21:11	600	-3	2.0	#10 M67 stars	2	
0097.m67_6503	240	5:55	8:51:28.9	11:50:33	600	1	2.0	#10 M67 stars	2	
0098.COMP	40	5:55	8:51:28.9	11:50:33	600	1	2.0	#10 M67 stars	2	
0099.m67_6512	240	5:55	8:51:59.5	11:55:04	600	1	2.0	#10 M67 stars	2	
0100.COMP	40	5:55	8:51:59.5	11:55:04	600	1	2.0	#10 M67 stars	2	
0101.m67_6506	240	5:55	8:51:43.8	11:56:42	600	1	2.0	#10 M67 stars	2	
0102.COMP	40	5:55	8:51:43.8	11:56:42	600	1	2.0	#10 M67 stars	2	
0103.m67_6492	240	5:55	8:51:12.6	11:52:42	600	13	2.0	#10 M67 stars	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0104.COMP	40	5:55	8:51:12.6	11:52:42	600	13	2.0	#10 M67 stars	2	
0105.m67_6511	240	5:55	8:51:56.0	11:51:26	600	13	2.0	#10 M67 stars	2	
0106.COMP	40	5:55	8:51:56.0	11:51:26	600	13	2.0	#10 M67 stars	2	
0107.m67_5583	600	5:55	8:51:16.2	11:44:32	600	20	2.0	#10 M67 stars	2	row=74
0108.m67_5583	600	5:55	8:51:16.2	11:44:32	600	20	2.0	#10 M67 stars	2	
0109.COMP	40	5:55	8:51:16.2	11:44:32	600	20	2.0	#10 M67 stars	2	
0110.m67_6430	600	5:55	8:52:13.4	11:46:01	600	31	2.0	#10 M67 stars	2	
0111.m67_6430	600	5:55	8:52:13.4	11:46:01	600	31	2.0	#10 M67 stars	2	
0112.COMP	40	5:55	8:52:13.4	11:46:01	600	31	2.0	#10 M67 stars	2	
0113.m67_5434	600	5:55	8:51:07.4	11:36:53	600	40	2.0	#10 M67 stars	2	
0114.m67_5434	600	5:55	8:51:07.4	11:36:53	600	40	2.0	#10 M67 stars	2	
0115.COMP	40	5:55	8:51:07.4	11:36:53	600	40	2.0	#10 M67 stars	2	
0116.Feige34	120	5:55	10:36:41.2	43:21:50	600	4	2.0	#56 Spectropho	2	
0117.COMP	40	5:55	10:36:41.2	43:21:50	600	4	2.0	#56 Spectropho	2	
0118.HD89744	2	5:55	10:19:12.6	+41:29:02	600	-22	2.0	#10 M67 stars	2	
0119.COMP	40	5:55	10:19:12.6	+41:29:02	600	-22	2.0	#10 M67 stars	2	
0120.Feige34	90	5:55	10:36:41.2	43:21:50	300	-8	3.0	#56 Spectropho	2	(normal setup) For Jha
0121.Feige34	90	5:55	10:36:41.2	43:21:50	300	-8	3.0	#56 Spectropho	2	
0122.COMP	12	5:55	10:36:41.2	43:21:50	300	-8	3.0	#56 Spectropho	2	
0123.MRK110	360	5:55	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	Great seeing!



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0124.COMP	12	5:55	09:25:12.9	+52:17:10	300	90	3.0	#6 AGN Monitor	2	
0125.N3227	90	5:55	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0126.N3227	90	5:55	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0127.N3227	90	5:55	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0128.COMP	12	5:55	10:23:30.6	+19:51:54	300	90	3.0	#6 AGN Monitor	2	
0129.MRK421	180	5:55	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0130.MRK421	180	5:55	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0131.COMP	12	5:55	11:04:27.4	+38:12:32	300	90	3.0	#6 AGN Monitor	2	
0132.MRK421	300	5:55	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0133.MRK421	300	5:55	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0134.MRK421	300	5:55	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0135.COMP	12	5:55	11:04:27.4	+38:12:32	300	90	3.0	#133 MRK421	2	
0136.sn2002at	1200	5:55	11:32:21.9	+00:48:08	300	19	3.0	#2 SN Observat	2	
0137.COMP	12	5:55	11:32:21.9	+00:48:08	300	19	3.0	#2 SN Observat	2	
0138.N4051	120	5:55	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0139.N4051	120	5:55	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0140.COMP	12	5:55	12:03:09.7	+44:31:53	300	90	3.0	#6 AGN Monitor	2	
0141.N4151	30	5:55	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0142.N4151	30	5:55	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0143.N4151	30	5:55	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	



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Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0144.COMP	12	5:55	12:10:32.6	+39:24:21	300	90	3.0	#6 AGN Monitor	2	
0145.Feige34	90	5:55	10:36:41.2	43:21:50	300	110	3.0	#56 Spectropho	2	For Jha
0146.Feige34	90	5:55	10:36:41.2	43:21:50	300	110	3.0	#56 Spectropho	2	
0147.COMP	12	5:55	10:36:41.2	43:21:50	300	110	3.0	#56 Spectropho	2	
0148.sn2002ar	1200	5:55	11:37:43.9	+22:00:34	300	43	3.0	#2 SN Observat	2	
0149.COMP	12	5:55	11:37:43.9	+22:00:34	300	43	3.0	#2 SN Observat	2	
0150.N5548	90	5:55	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0151.N5548	90	5:55	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0152.N5548	90	5:55	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0153.COMP	12	5:55	14:17:59.6	+25:08:12	300	90	3.0	#6 AGN Monitor	2	
0154.FSVSJ095929	1200	5:55	09:59:29.8	19:54:10	300	90	3.0	#131 FSVS	2	
0155.COMP	12	5:55	09:59:29.8	19:54:10	300	90	3.0	#131 FSVS	2	
0156.FSVSJ095939	1200	5:55	09:59:39.0	20:48:03	300	90	3.0	#131 FSVS	2	
0157.COMP	12	5:55	09:59:39.0	20:48:03	300	90	3.0	#131 FSVS	2	
0158.Feige34	90	5:55	10:36:41.2	43:21:50	300	92	3.0	#56 Spectropho	2	For Jha
0159.Feige34	90	5:55	10:36:41.2	43:21:50	300	92	3.0	#56 Spectropho	2	
0160.COMP	12	5:55	10:36:41.2	43:21:50	300	92	3.0	#56 Spectropho	2	
0161.FSVSJ125403	1020	5:55	12:54:03.9	26:58:45	300	90	3.0	#131 FSVS	2	
0162.COMP	12	5:55	12:54:03.9	26:58:45	300	90	3.0	#131 FSVS	2	
0163.FSVSJ125422	900	5:55	12:54:22.8	26:20:05	300	90	3.0	#131 FSVS	2	



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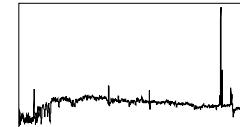
Coll. Focus 1000 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0164.COMP	12	5:55	12:54:22.8	26:20:05	300	90	3.0	#131 FSVS	2	
0165.FSVSJ125637	900	5:55	12:56:37.1	26:36:43	300	90	3.0	#131 FSVS	2	
0166.COMP	12	5:55	12:56:37.1	26:36:43	300	90	3.0	#131 FSVS	2	
0167.Feige34	90	5:55	10:36:41.2	43:21:50	300	81	3.0	#56 Spectropho	2	For Jha
0168.Feige34	90	5:55	10:36:41.2	43:21:50	300	81	3.0	#56 Spectropho	2	
0169.COMP	12	5:55	10:36:41.2	43:21:50	300	81	3.0	#56 Spectropho	2	
0170.FSVSJ162426	900	5:55	16:24:26.8	26:49:47	300	90	3.0	#131 FSVS	2	
0171.COMP	12	5:55	16:24:26.8	26:49:47	300	90	3.0	#131 FSVS	2	
0172.FSVSJ162034	1020	5:55	16:20:34.2	26:32:26	300	90	3.0	#131 FSVS	2	
0173.COMP	12	5:55	16:20:34.2	26:32:26	300	90	3.0	#131 FSVS	2	
0174.N5866	180	5:55	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0175.COMP	12	5:55	15:05:07.2	+55:57:18	300	90	3.0	#57 Velocity S	2	
0176.BDp332642	60	5:55	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0177.COMP	12	5:55	15:50:03	33:05:49	300	90	3.0	#56 Spectropho	2	
0178-0182.sky	2	13:46	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0183.COMP	5	13:46	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0184-0193.BIAS	0	13:50	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0194-0203.FLAT	6	13:52	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	4	
0204-0213.BIAS	0	13:54	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	
0214-0223.FLAT	12	13:58	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	



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<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>Bir</i>	<i>Comments</i>
0224-0233.DARK	900	16:18	15:50:03	33:05:49	300	90	3.0	#57 Velocity S	2	