



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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UT Date 2001-06-27 Observers P BerlindColl. Focus 1050 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0001-0010.DARK	900	0:09	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	2	
0011.BIAS	0	0:09	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	4	wow it is pretty clear!
0012-0020.BIAS	0	1:51	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	4	
0021.FLAT	8	1:51	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	4	moon
0022-0030.FLAT	8	1:54	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	4	
0031-0040.BIAS	0	1:57	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	2	
0041-0050.FLAT	16	2:02	22:26:58.2	+46:01:48	300	0	3.0	#12 Symbiotic	2	
0051-0055.sky	2	2:47	13:40:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0056.COMP	5	2:47	13:40:00	32:00:00	300	90	3.0	#57 Velocity S	4	
0057.TXCVn	30	2:47	12:44:42	36:45:48	300	100	3.0	#12 Symbiotic	4	
0058.TXCVn	30	2:47	12:44:42	36:45:48	300	100	3.0	#12 Symbiotic	4	
0059.TXCVn	40	2:47	12:44:42	36:45:48	300	100	3.0	#12 Symbiotic	4	
0060.COMP	5	2:47	12:44:42	36:45:48	300	100	3.0	#12 Symbiotic	4	
0061.HZ44	120	2:47	13:21:19.0	36:23:39	300	100	3.0	#56 Spectropho	2	
0062.HZ44	120	2:47	13:21:19.0	36:23:39	300	100	3.0	#56 Spectropho	2	
0063.COMP	10	2:47	13:21:19.0	36:23:39	300	100	3.0	#56 Spectropho	2	
0064.N4853	180	2:47	12:58:35.1	+27:35:47	300	100	3.0	#57 Velocity S	4	
0065.COMP	5	2:47	12:58:35.1	+27:35:47	300	100	3.0	#57 Velocity S	4	
0066.RWHyA	5	2:47	13:34:18	-25:22:51	300	0	3.0	#12 Symbiotic	4	
0067.RWHyA	5	2:47	13:34:18	-25:22:51	300	0	3.0	#12 Symbiotic	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0068.RWHyA	30	2:47	13:34:18	-25:22:51	300	0	3.0	#12 Symbiotic	4	
0069.RWHyA	50	2:47	13:34:18	-25:22:51	300	0	3.0	#12 Symbiotic	4	
0070.COMP	5	2:47	13:34:18	-25:22:51	300	0	3.0	#12 Symbiotic	4	
0071.BD21d3873	20	2:47	14:16:34	-21:45:51	300	0	3.0	#12 Symbiotic	4	
0072.BD21d3873	45	2:47	14:16:34	-21:45:51	300	0	3.0	#12 Symbiotic	4	
0073.BD21d3873	240	2:47	14:16:34	-21:45:51	300	0	3.0	#12 Symbiotic	4	
0074.COMP	5	2:47	14:16:34	-21:45:51	300	0	3.0	#12 Symbiotic	4	
0075.comak_001	360	2:47	12:55:08.7	27:12:22	300	0	3.0	#64f Cluster I	4	<sup>sup *</sup> ; cosmic on top of H-alpha
0076.COMP	5	2:47	12:55:08.7	27:12:22	300	0	3.0	#64f Cluster I	4	rotated to avoid star
0077.comak_002	240	2:47	13:25:02.6	32:33:10	300	90	3.0	#64f Cluster I	4	
0078.COMP	5	2:47	13:25:02.6	32:33:10	300	90	3.0	#64f Cluster I	4	
0079.MRK421	240	2:47	11:04:27.4	+38:12:32	300	80	3.0	#6 AGN Monitor	4	
0080.COMP	5	2:47	11:04:27.4	+38:12:32	300	80	3.0	#6 AGN Monitor	4	
0081.N4051	150	2:47	12:03:09.7	+44:31:53	300	94	3.0	#6 AGN Monitor	4	clouds moving in
0082.N4051	150	2:47	12:03:09.7	+44:31:53	300	94	3.0	#6 AGN Monitor	4	
0083.COMP	5	2:47	12:03:09.7	+44:31:53	300	94	3.0	#6 AGN Monitor	4	
0084.N4151	30	2:47	12:10:32.6	+39:24:21	300	88	3.0	#6 AGN Monitor	4	
0085.N4151	30	2:47	12:10:32.6	+39:24:21	300	88	3.0	#6 AGN Monitor	4	
0086.N4151	30	2:47	12:10:32.6	+39:24:21	300	88	3.0	#6 AGN Monitor	4	
0087.COMP	5	2:47	12:10:32.6	+39:24:21	300	88	3.0	#6 AGN Monitor	4	



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UT Date 2001-06-27 Observers P Berlind

Coll. Focus 1050 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0088.N5548	120	2:47	14:17:59.6	+25:08:12	300	61	3.0	#6 AGN Monitor	4	
0089.N5548	120	2:47	14:17:59.6	+25:08:12	300	61	3.0	#6 AGN Monitor	4	
0090.COMP	5	2:47	14:17:59.6	+25:08:12	300	61	3.0	#6 AGN Monitor	4	
0091.HD96971	5	2:47	11:11:28.8	+73:06:54	300	61	3.0	#57 Velocity S	4	
0092.HD96971	5	2:47	11:11:28.8	+73:06:54	300	61	3.0	#57 Velocity S	4	
0093.COMP	5	2:47	11:11:28.8	+73:06:54	300	61	3.0	#57 Velocity S	4	
0094.MRK279	180	2:47	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0095.MRK279	180	2:47	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0096.COMP	5	2:47	13:51:53.6	69:33:13	300	90	3.0	#6 AGN Monitor	4	
0097.comak_004	540	2:47	12:45:37.5	29:52:15	300	90	3.0	#64f Cluster I	4	
0098.COMP	5	2:47	12:45:37.5	29:52:15	300	90	3.0	#64f Cluster I	4	
0099.comak_003	420	2:47	13:25:38.8	32:34:40	300	90	3.0	#64f Cluster I	4	
0100.COMP	5	2:47	13:25:38.8	32:34:40	300	90	3.0	#64f Cluster I	4	
0101.sn2001ck	1200	2:47	14:37:50.0	+30:29:02	300	80	3.0	#2 SN Observat	2	
0102.COMP	10	2:47	14:37:50.0	+30:29:02	300	80	3.0	#2 SN Observat	2	
0103.HD154791	1	2:47	17:06:34	23:58:17	300	80	3.0	#12 Symbiotic	4	
0104.HD154791	3	2:47	17:06:34	23:58:17	300	80	3.0	#12 Symbiotic	4	
0105.HD154791	15	2:47	17:06:34	23:58:17	300	80	3.0	#12 Symbiotic	4	
0106.COMP	5	2:47	17:06:34	23:58:17	300	80	3.0	#12 Symbiotic	4	
0107.UKSCe1	900	2:47	16:15:30	-22:12:15	300	0	3.0	#12 Symbiotic	4	clouds moving out



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Coll. Focus 1050 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0108.COMP	5	2:47	16:15:30	-22:12:15	300	0	3.0	#12 Symbiotic	4	
0109.Hen1341	10	2:47	17:08:36	-17:26:30	300	0	3.0	#12 Symbiotic	4	
0110.Hen1341	30	2:47	17:08:36	-17:26:30	300	0	3.0	#12 Symbiotic	4	
0111.Hen1341	90	2:47	17:08:36	-17:26:30	300	0	3.0	#12 Symbiotic	4	
0112.Hen1341	180	2:47	17:08:36	-17:26:30	300	0	3.0	#12 Symbiotic	4	
0113.COMP	5	2:47	17:08:36	-17:26:30	300	0	3.0	#12 Symbiotic	4	
0114.sn2001cp	1200	2:47	17:11:02.5	05:50:26	300	-5	3.0	#2 SN Observat	2	
0115.COMP	10	2:47	17:11:02.5	05:50:26	300	-5	3.0	#2 SN Observat	2	
0116.M1m21	30	2:47	17:34:17	-19:09:24	300	-5	3.0	#12 Symbiotic	4	
0117.M1m21	90	2:47	17:34:17	-19:09:24	300	-5	3.0	#12 Symbiotic	4	
0118.M1m21	600	2:47	17:34:17	-19:09:24	300	-5	3.0	#12 Symbiotic	4	
0119.COMP	5	2:47	17:34:17	-19:09:24	300	-5	3.0	#12 Symbiotic	4	
0120.RTSer	30	2:47	17:39:52	-11:56:39	300	-5	3.0	#12 Symbiotic	4	
0121.RTSer	600	2:47	17:39:52	-11:56:39	300	-5	3.0	#12 Symbiotic	4	
0122.RTSer	60	2:47	17:39:52	-11:56:39	300	-5	3.0	#12 Symbiotic	4	
0123.COMP	5	2:47	17:39:52	-11:56:39	300	-5	3.0	#12 Symbiotic	4	
0124.UUSer	180	2:47	17:42:39	-15:24:45	300	-5	3.0	#12 Symbiotic	4	
0125.UUSer	60	2:47	17:42:39	-15:24:45	300	-5	3.0	#12 Symbiotic	4	
0126.UUSer	900	2:47	17:42:39	-15:24:45	300	-5	3.0	#12 Symbiotic	4	
0127.COMP	5	2:47	17:42:39	-15:24:45	300	-5	3.0	#12 Symbiotic	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0128.XX0ph	1	2:47	17:43:56	-06:16:08	300	0	3.0	#12 Symbiotic	4	
0129.XX0ph	5	2:47	17:43:56	-06:16:08	300	0	3.0	#12 Symbiotic	4	
0130.XX0ph	10	2:47	17:43:56	-06:16:08	300	0	3.0	#12 Symbiotic	4	
0131.COMP	5	2:47	17:43:56	-06:16:08	300	0	3.0	#12 Symbiotic	4	
0132.RSOph	10	2:47	17:50:13	-06:42:30	300	0	3.0	#12 Symbiotic	4	
0133.RSOph	20	2:47	17:50:13	-06:42:30	300	0	3.0	#12 Symbiotic	4	
0134.RSOph	210	2:47	17:50:13	-06:42:30	300	0	3.0	#12 Symbiotic	4	
0135.COMP	5	2:47	17:50:13	-06:42:30	300	0	3.0	#12 Symbiotic	4	
0136.V2416Sgr	45	2:47	17:57:16	-21:41:30	300	0	3.0	#12 Symbiotic	4	
0137.V2416Sgr	900	2:47	17:57:16	-21:41:30	300	0	3.0	#12 Symbiotic	4	
0138.COMP	5	2:47	17:57:16	-21:41:30	300	0	3.0	#12 Symbiotic	4	
0139.AS270	30	2:47	18:05:33	-20:20:37	300	0	3.0	#12 Symbiotic	4	
0140.AS270	15	2:47	18:05:33	-20:20:37	300	0	3.0	#12 Symbiotic	4	
0141.AS270	480	2:47	18:05:33	-20:20:37	300	0	3.0	#12 Symbiotic	4	
0142.COMP	5	2:47	18:05:33	-20:20:37	300	0	3.0	#12 Symbiotic	4	
0143.Hen1591	30	2:47	18:07:32	-25:53:43	300	0	3.0	#12 Symbiotic	4	
0144.Hen1591	420	2:47	18:07:32	-25:53:43	300	0	3.0	#12 Symbiotic	4	
0145.COMP	5	2:47	18:07:32	-25:53:43	300	0	3.0	#12 Symbiotic	4	
0146.AS289	20	2:47	18:12:22	-11:40:08	300	0	3.0	#12 Symbiotic	4	
0147.AS289	90	2:47	18:12:22	-11:40:08	300	0	3.0	#12 Symbiotic	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0148.AS289	360	2:47	18:12:22	-11:40:08	300	0	3.0	#12 Symbiotic	4	
0149.COMP	5	2:47	18:12:22	-11:40:08	300	0	3.0	#12 Symbiotic	4	
0150.RJ105	90	2:47	18:35:02	01:46:55	300	0	3.0	#12 Symbiotic	4	faint pup
0151.RJ105	900	2:47	18:35:02	01:46:55	300	0	3.0	#12 Symbiotic	4	
0152.COMP	5	2:47	18:35:02	01:46:55	300	0	3.0	#12 Symbiotic	4	
0153.DQSer	60	2:47	18:44:40	05:02:49	300	0	3.0	#12 Symbiotic	4	
0154.DQSer	240	2:47	18:44:40	05:02:49	300	0	3.0	#12 Symbiotic	4	
0155.DQSer	900	2:47	18:44:40	05:02:49	300	0	3.0	#12 Symbiotic	4	
0156.COMP	5	2:47	18:44:40	05:02:49	300	0	3.0	#12 Symbiotic	4	
0157.V2601Sgr	60	2:47	18:38:02	-22:41:53	300	0	3.0	#12 Symbiotic	4	clouds moving in
0158.V2601Sgr	240	2:47	18:38:02	-22:41:53	300	0	3.0	#12 Symbiotic	4	
0159.V2601Sgr	900	2:47	18:38:02	-22:41:53	300	0	3.0	#12 Symbiotic	4	
0160.COMP	5	2:47	18:38:02	-22:41:53	300	0	3.0	#12 Symbiotic	4	
0161.BDp404032	45	2:47	20:06:40	41:06:15	300	90	3.0	#56 Spectropho	4	
0162.BDp404032	45	2:47	20:06:40	41:06:15	300	90	3.0	#56 Spectropho	4	
0163.COMP	5	2:47	20:06:40	41:06:15	300	90	3.0	#56 Spectropho	4	
0164.HD192281	4	2:47	20:10:46.8	40:07:01	300	90	3.0	#56 Spectropho	4	
0165.HD192281	4	2:47	20:10:46.8	40:07:01	300	90	3.0	#56 Spectropho	4	
0166.HD192281	6	2:47	20:10:46.8	40:07:01	300	90	3.0	#56 Spectropho	4	
0167.COMP	5	2:47	20:10:46.8	40:07:01	300	90	3.0	#56 Spectropho	4	



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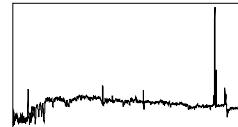
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0168.He2m468	90	2:47	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic	2	
0169.He2m468	180	2:47	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic	2	
0170.He2m468	900	2:47	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic	2	
0171.COMP	10	2:47	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic	2	
0172.V1329Cyg	10	2:47	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic	4	
0173.V1329Cyg	5	2:47	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic	4	
0174.V1329Cyg	60	2:47	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic	4	
0175.V1329Cyg	360	2:47	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic	4	
0176.COMP	5	2:47	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic	4	
0177.V1057Cyg	100	2:47	20:58:54	44:15:30	300	90	3.0	#12 Symbiotic	4	
0178.COMP	5	2:47	20:58:54	44:15:30	300	90	3.0	#12 Symbiotic	4	
0179.V407Cyg	20	2:47	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic	4	
0180.V407Cyg	60	2:47	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic	4	
0181.V407Cyg	300	2:47	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic	4	
0182.COMP	5	2:47	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic	4	
0183.MRK509	210	2:47	20:44:09.8	-10:43:24	300	0	3.0	#6 AGN Monitor	4	
0184.MRK509	210	2:47	20:44:09.8	-10:43:24	300	0	3.0	#6 AGN Monitor	4	
0185.COMP	5	2:47	20:44:09.8	-10:43:24	300	0	3.0	#6 AGN Monitor	4	
0186.S190	10	2:47	21:41:45	02:43:54	300	0	3.0	#12 Symbiotic	4	clouds moving out
0187.S190	60	2:47	21:41:45	02:43:54	300	0	3.0	#12 Symbiotic	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0188.S190	60	2:47	21:41:45	02:43:54	300	0	3.0	#12 Symbiotic	4	
0189.S190	5	2:47	21:41:45	02:43:54	300	0	3.0	#12 Symbiotic	4	
0190.COMP	5	2:47	21:41:45	02:43:54	300	0	3.0	#12 Symbiotic	4	
0191.Akn564	240	2:47	22:42:39.4	+29:43:31	300	100	3.0	#6 AGN Monitor	4	
0192.Akn564	240	2:47	22:42:39.4	+29:43:31	300	100	3.0	#6 AGN Monitor	4	
0193.COMP	5	2:47	22:42:39.4	+29:43:31	300	100	3.0	#6 AGN Monitor	4	
0194.N7469	150	2:47	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	4	
0195.N7469	150	2:47	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	4	
0196.COMP	5	2:47	23:03:15.7	+08:52:27	300	90	3.0	#6 AGN Monitor	4	
0197.ZAnd	1	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0198.ZAnd	3	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0199.ZAnd	10	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0200.ZAnd	30	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0201.ZAnd	30	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0202.COMP	5	2:47	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic	4	
0203.BDp284211	60	2:47	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	4	
0204.BDp284211	60	2:47	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	4	
0205.COMP	5	2:47	21:48:57.1	28:37:48	300	90	3.0	#56 Spectropho	4	
0206.id1710	420	2:47	20:06:13.3	35:52:45	300	90	3.0	#115 PMS NGC68	4	
0207.COMP	5	2:47	20:06:13.3	35:52:45	300	90	3.0	#115 PMS NGC68	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bir	Comments
0208.id1415	720	2:47	20:06:53.2	35:55:43	300	90	3.0	#115 PMS NGC68	4	
0209.COMP	5	2:47	20:06:53.2	35:55:43	300	90	3.0	#115 PMS NGC68	4	
0210.id2001	480	2:47	20:05:40.6	35:55:31	300	90	3.0	#115 PMS NGC68	4	
0211.COMP	5	2:47	20:05:40.6	35:55:31	300	90	3.0	#115 PMS NGC68	4	
0212.id2953	480	2:47	19:58:00.7	35:13:36	300	90	3.0	#115 PMS NGC68	4	lots of clouds
0213.COMP	5	2:47	19:58:00.7	35:13:36	300	90	3.0	#115 PMS NGC68	4	
0214-0223.BIAS	0	11:17	19:58:00.7	35:13:36	300	90	3.0	#6 AGN Monitor	4	
0224-0233.FLAT	8	11:20	19:58:00.7	35:13:36	300	90	3.0	#6 AGN Monitor	4	
0234-0243.BIAS	0	11:22	19:58:00.7	35:13:36	300	90	3.0	#6 AGN Monitor	2	
0244-0253.FLAT	16	11:27	19:58:00.7	35:13:36	300	90	3.0	#6 AGN Monitor	2	