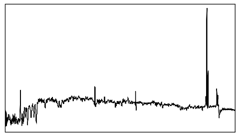
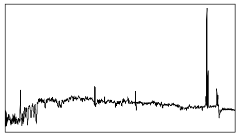


UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

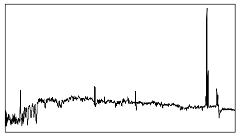
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
01.08.DARK	1200	22:16	02:58:30.0	+07:56:13	300	90	3.0	#57 Velocity S		
09.20.BIAS	0	1:23	02:58:30.0	+07:56:13	300	90	3.0	#57 Velocity S		big thunderstorm this afternoon
21.30.FLAT	8	1:27	02:58:30.0	+07:56:13	300	90	3.0	#57 Velocity S		
31.40.BIAS	0	1:37	02:58:30.0	+07:56:13	300	90	3.0	#57 Velocity S		
41.50.FLAT	16	1:40	02:58:30.0	+07:56:13	300	90	3.0	#57 Velocity S		
0051.id2172	300	2:20	19:58:40.9	35:16:56	300	90	3.0	#115 PMS NGC68		stopped by clouds
0052.COMP	5	2:24	20:05:17.2	35:38:55	300	90	3.0	#115 PMS NGC68		
0053.id2863	300	2:51	19:58:40.9	35:16:56	300	90	3.0	#115 PMS NGC68		
0054.id2154	300	2:57	20:05:19.7	35:51:26	300	90	3.0	#115 PMS NGC68		
0055.COMP	5	3:02	20:05:19.7	35:51:26	300	90	3.0	#115 PMS NGC68		
0056.id2651	300	3:03	19:59:56.1	35:08:20	300	90	3.0	#115 PMS NGC68		clearing nicely
0057.id2941	300	3:08	19:58:04.1	35:21:15	300	90	3.0	#115 PMS NGC68		
0058.COMP	5	3:13	19:58:04.1	35:21:15	300	90	3.0	#115 PMS NGC68		
0059.id1362	300	3:14	20:06:57.9	35:42:14	300	90	3.0	#115 PMS NGC68		
0060.id1659	300	3:20	20:06:19.2	35:55:46	300	90	3.0	#115 PMS NGC68		bona-fide PMS!
0061.COMP	5	3:25	20:06:19.2	35:55:46	300	90	3.0	#115 PMS NGC68		
0062.id2680	300	3:26	19:59:46.3	35:13:42	300	90	3.0	#115 PMS NGC68		please ignore fainter * to E
0063.id2807	300	3:31	19:58:58.4	35:25:57	300	90	3.0	#115 PMS NGC68		
0064.COMP	5	3:37	19:58:58.4	35:25:57	300	90	3.0	#115 PMS NGC68		
0065.id2573	300	3:37	20:04:02.4	35:49:58	300	90	3.0	#115 PMS NGC68		

WHIPPLE OBSERVATORY FAST SPECTROGRAPH LOG



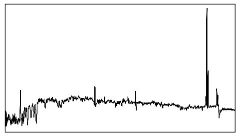
UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	*Exp Time*	*UT Start*	*RA*	*Dec*	*Gr.*	*P.A.*	*Slit*	*Program*	*Bin*	*Comments*
0066.id73	300	3:43	20:06:04.0	35:45:13	300	90	3.0	#115 PMS NGC68		
0067.COMP	5	3:48	20:06:04.0	35:45:13	300	90	3.0	#115 PMS NGC68		
0068.id1271	300	3:49	20:07:07.1	35:50:27	300	90	3.0	#115 PMS NGC68		
0069.id100	300	3:54	20:05:51.5	35:43:47	300	90	3.0	#115 PMS NGC68		please ignore fainter * to E
0070.COMP	5	3:59	20:05:51.5	35:43:47	300	90	3.0	#115 PMS NGC68		
0071.id1072	240	4:00	20:07:28.1	35:54:35	300	90	3.0	#115 PMS NGC68		
0072.id1532	300	4:04	20:06:36.4	35:37:09	300	90	3.0	#115 PMS NGC68		
0073.COMP	5	4:10	20:06:36.4	35:37:09	300	90	3.0	#115 PMS NGC68		
0074.id1818	300	4:10	20:06:01.1	35:36:35	300	90	3.0	#115 PMS NGC68		
0075.id2138	300	4:16	20:05:22.0	35:42:12	300	90	3.0	#115 PMS NGC68		H-alpha em
0076.COMP	5	4:21	20:05:22.0	35:42:12	300	90	3.0	#115 PMS NGC68		
77.78.BDp284211	30	4:23	21:51:11.0	+28:51:50	300	90	3.0	#56 Photometri		
0079.COMP	10	4:24	21:51:11.0	+28:51:50	300	90	3.0	#56 Photometri		
80.81.MRK509	180	4:30	20:44:09.8	-10:43:24	300	20	3.0	#6 AGN Monitor		
0082.COMP	5	4:34	20:44:09.8	-10:43:24	300	20	3.0	#6 AGN Monitor		
83.85.BFCyg	1	4:36	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic		
0086.COMP	5	4:38	19:23:53	29:40:27	300	90	3.0	#12 Symbiotic		
87.88.CHCyg	1	4:39	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic		
0089.COMP	5	4:40	19:24:33	50:14:30	300	90	3.0	#12 Symbiotic		
90.91.S169	120	4:42	19:49:57	46:15:20	300	90	3.0	#12 Symbiotic		



UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0092.COMP	5	4:51	19:49:57	46:15:20	300	90	3.0	#12 Symbiotic		
93.95.V1016Cyg	0	4:52	19:57:05	39:49:37	300	90	3.0	#12 Symbiotic		
0096.COMP	5	4:54	19:57:05	39:49:37	300	90	3.0	#12 Symbiotic		
97.99.CICyg	2	4:54	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic		
0100.COMP	5	4:57	19:50:12	35:41:02	300	90	3.0	#12 Symbiotic		
101.103.HMSge	1	4:58	19:41:57	16:44:41	300	90	3.0	#12 Symbiotic		
0104.COMP	5	5:00	19:41:57	16:44:41	300	90	3.0	#12 Symbiotic		
105.108.AS360	3	5:00	19:45:49	18:36:49	300	90	3.0	#12 Symbiotic		
0109.COMP	5	5:07	19:45:49	18:36:49	300	90	3.0	#12 Symbiotic		
110.112.PUVul	1	5:08	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic		
0113.COMP	5	5:13	20:21:13	21:34:21	300	90	3.0	#12 Symbiotic		
114.115.He2m467	30	5:14	20:35:57	20:11:27	300	90	3.0	#12 Symbiotic		
0116.COMP	5	5:20	20:35:57	20:11:27	300	90	3.0	#12 Symbiotic		
117.118.He2m468	60	5:21	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic		
0119.COMP	5	5:32	20:41:19	34:44:53	300	90	3.0	#12 Symbiotic		
120.122.V1329Cyg	15	5:33	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic		
0123.COMP	5	5:40	20:51:01	35:34:55	300	90	3.0	#12 Symbiotic		
0124.V1515Cyg	120	5:41	20:23:48	42:12:24	300	90	3.0	#12 Symbiotic		
0125.COMP	5	5:43	20:23:48	42:12:24	300	90	3.0	#12 Symbiotic		
0126.V1057Cyg	60	5:44	20:58:54	44:15:30	300	90	3.0	#12 Symbiotic		



WHIPPLE OBSERVATORY FAST SPECTROGRAPH LOG

UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0127.COMP	5	5:45	20:58:54	44:15:30	300	90	3.0	#12 Symbiotic		
128.130.V407Cyg	60	5:46	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic		
0131.COMP	5	5:53	21:02:09	45:46:33	300	90	3.0	#12 Symbiotic		
132.133.Feige110	120	5:55	23:19:58.4	-05:09:56	300	3	3.0	#56 Photometri		
0134.COMP	10	6:00	23:19:58.4	-05:09:56	300	3	3.0	#56 Photometri		
135.137.AGPeg	1	6:02	21:51:02	12:37:33	300	3	3.0	#12 Symbiotic		
0138.COMP	5	6:03	21:51:02	12:37:33	300	3	3.0	#12 Symbiotic		
139.142.RAqr	1	6:04	23:43:49	-15:17:05	300	3	3.0	#12 Symbiotic		outburst
0143.COMP	5	6:06	23:43:49	-15:17:05	300	3	3.0	#12 Symbiotic		
144.147.ZAnd	1	6:09	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic		pec; outburst
0148.COMP	5	6:11	23:33:40	48:49:06	300	90	3.0	#12 Symbiotic		
149.151.EGAnd	1	6:12	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic		
0152.COMP	5	6:13	0:44:37	40:40:47	300	90	3.0	#12 Symbiotic		
0153.158m213	300	6:14	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S		
0154.COMP	5	6:19	00:40:30.2	+40:50:55	300	90	3.0	#57 Velocity S		
0155.a119c_523	720	6:21	01:04:30.3	00:34:32	300	90	3.0	#64 Cluster In		
0156.COMP	5	6:34	01:04:30.3	00:34:32	300	90	3.0	#64 Cluster In		
0157.a119c_459	600	6:34	01:04:58.0	-0:51:00	300	90	3.0	#64 Cluster In		
0158.COMP	5	6:45	01:04:58.0	-0:51:00	300	90	3.0	#64 Cluster In		
0159.a119c_470	420	6:46	01:05:48.9	-1:08:57	300	90	3.0	#64 Cluster In		

UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	*Exp Time*	*UT Start*	*RA*	*Dec*	*Gr.*	*P.A.*	*Slit*	*Program*	*Bin*	*Comments*
0160.COMP	5	6:53	01:05:48.9	-1:08:57	300	90	3.0	#64 Cluster In		
0161.a119c_474	720	6:54	00:51:10.3	-2:40:18	300	90	3.0	#64 Cluster In		
0162.COMP	5	7:06	00:51:10.3	-2:40:18	300	90	3.0	#64 Cluster In		
0163.a119c_473	720	7:07	01:06:34.9	-0:29:52	300	90	3.0	#64 Cluster In		
0164.COMP	5	7:19	01:06:34.9	-0:29:52	300	90	3.0	#64 Cluster In		
0165.a119c_502	720	7:20	00:56:34.1	-3:05:23	300	90	3.0	#64 Cluster In		
0166.COMP	5	7:33	00:56:34.1	-3:05:23	300	90	3.0	#64 Cluster In		
0167.a119c_522EW	540	7:33	00:57:09.6	-1:22:48	300	90	3.0	#64 Cluster In		E and W gals; E gal is wk
0168.COMP	10	7:43	00:57:09.6	-1:22:48	300	90	3.0	#64 Cluster In		
0169.a119c_524	720	7:44	01:07:23.4	00:53:33	300	90	3.0	#64 Cluster In		
0170.COMP	5	7:56	01:07:23.4	00:53:33	300	90	3.0	#64 Cluster In		
0171.a119c_602	540	7:57	01:07:31.5	00:53:23	300	90	3.0	#64 Cluster In		
0172.COMP	5	8:06	01:07:31.5	00:53:23	300	90	3.0	#64 Cluster In		
0173.a119c_527	420	8:06	00:52:50.7	-3:13:49	300	90	3.0	#64 Cluster In		
0174.COMP	5	8:14	00:52:50.7	-3:13:49	300	90	3.0	#64 Cluster In		
0175.a119c_529	420	8:14	00:48:58.0	01:44:27	300	90	3.0	#64 Cluster In		
0176.COMP	5	8:22	00:48:58.0	01:44:27	300	90	3.0	#64 Cluster In		
177.179.SNcgc	1200	8:25	02:08:20.9	+01:11:00	300	0	3.0	#2 SN Observat		new type II
178.180.COMP	10	8:46	02:08:20.9	+01:11:00	300	0	3.0	#2 SN Observat		
0181.ngc1139	180	9:08	02:52:44.4	-14:31:54	300	0	3.0	#2 SN Observat		host gal nucleus

UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0182.COMP	10	9:12	02:52:44.4	-14:31:54	300	0	3.0	#2 SN Observat		
0183.SNngc1139	1200	9:13	02:52:44.4	-14:31:54	300	0	3.0	#2 SN Observat		nice Ia near max
0184.COMP	10	9:33	02:52:44.4	-14:31:54	300	0	3.0	#2 SN Observat		
0185.a119c_531	600	9:35	00:55:56.0	00:39:41	300	90	3.0	#64 Cluster In		
0186.COMP	5	9:46	00:55:56.0	00:39:41	300	90	3.0	#64 Cluster In		
0187.a119c_532	900	9:46	01:00:09.1	-0:01:00	300	90	3.0	#64 Cluster In		
0188.COMP	5	10:02	01:00:09.1	-0:01:00	300	90	3.0	#64 Cluster In		
0189.03227m0621	1200	10:06	03:25:11	-06:10:51	300	25	3.0	#120 X-Ray IRA		please use wide extract aperture; ignore star to W
0190.COMP	10	10:26	03:25:11	-06:10:51	300	25	3.0	#120 X-Ray IRA		
0191.a496_208	540	10:28	04:16:41.8	-12:10:59	300	90	3.0	#64 Cluster In		
0192.COMP	5	10:38	04:16:41.8	-12:10:59	300	90	3.0	#64 Cluster In		
0193.a496_207	900	10:39	04:50:47.3	-13:15:34	300	90	3.0	#64 Cluster In		faint LSB gal; good em!!; ignore sup M* to E
0194.COMP	10	10:54	04:50:47.3	-13:15:34	300	90	3.0	#64 Cluster In		
0195.a496_215	600	10:55	04:45:56.5	-16:09:25	300	90	3.0	#64 Cluster In		
0196.COMP	5	11:06	04:45:56.5	-16:09:25	300	90	3.0	#64 Cluster In		
0197.a496_216	600	11:06	04:44:13.0	-13:08:51	300	90	3.0	#64 Cluster In		
0198.COMP	5	11:17	04:44:13.0	-13:08:51	300	90	3.0	#64 Cluster In		
0199.S32	45	11:17	4:37:45	-01:19:11	300	90	3.0	#12 Symbiotic		
0200.S32	300	11:18	4:37:45	-01:19:11	300	90	3.0	#12 Symbiotic		
0201.COMP	5	11:24	4:37:45	-01:19:11	300	90	3.0	#12 Symbiotic		

WHIPPLE OBSERVATORY FAST SPECTROGRAPH LOG

UT Date 10/04/00 *Observers* P. Berlind *Coll. Focus* 985 *Filter* none

File	*Exp Time*	*UT Start*	*RA*	*Dec*	*Gr.*	*P.A.*	*Slit*	*Program*	*Bin*	*Comments*
0202.a496_226	600	11:24	04:39:48.9	-12:03:38	300	90	3.0	#64 Cluster In		
0203.COMP	5	11:35	04:39:48.9	-12:03:38	300	90	3.0	#64 Cluster In		
0204.a496_225	600	11:36	04:45:29.2	-16:22:30	300	90	3.0	#64 Cluster In		
0205.COMP	5	11:46	04:45:29.2	-16:22:30	300	90	3.0	#64 Cluster In		
0206.a496_229	540	11:47	04:32:31.1	-12:04:59	300	90	3.0	#64 Cluster In		
0207.COMP	5	11:56	04:32:31.1	-12:04:59	300	90	3.0	#64 Cluster In		
0208.a496_230	240	11:57	04:24:58.5	-09:54:25	300	90	3.0	#64 Cluster In		please ignore gal in slit to E
0209.COMP	5	12:01	04:24:58.5	-09:54:25	300	90	3.0	#64 Cluster In		
0210.2M030436.6m0002	150	12:02	03:04:36.6	-00:02:14	300	90	3.0	#68 2MASS Reds		
0211.COMP	5	12:05	03:04:36.6	-00:02:14	300	90	3.0	#68 2MASS Reds		
0212.2M031159.8m0109	360	12:05	03:11:59.8	-01:09:41	300	90	3.0	#68 2MASS Reds		
0213.COMP	5	12:12	03:11:59.8	-01:09:41	300	90	3.0	#68 2MASS Reds		
0214.2M031310.2m0254	120	12:12	03:13:10.2	-02:54:12	300	90	3.0	#68 2MASS Reds		
0215.COMP	5	12:15	03:13:10.2	-02:54:12	300	90	3.0	#68 2MASS Reds		
0216.2M031249.3p0542	210	12:15	03:12:49.3	+05:42:03	300	90	3.0	#68 2MASS Reds		
0217.COMP	5	12:19	03:12:49.3	+05:42:03	300	90	3.0	#68 2MASS Reds		
0218.2M031317.4p0920	180	12:20	03:13:17.3	+09:20:04	300	90	3.0	#68 2MASS Reds		
0219.COMP	5	12:23	03:13:17.3	+09:20:04	300	90	3.0	#68 2MASS Reds		
0220.2M031335.5p1648	180	12:24	03:13:35.5	+16:48:40	300	90	3.0	#68 2MASS Reds		
0221.COMP	5	12:27	03:13:35.5	+16:48:40	300	90	3.0	#68 2MASS Reds		