



## WHIPPLE OBSERVATORY

## FAST SPECTROGRAPH LOG



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UT Date 10/30/00 Observers P. BerlindColl. Focus 965 Filter none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
01.10.DARK	1200	19:51	10:39:36.7	+43:06:09	300	90	3.0	#56 Photometri		
11.20.BIAS	0	0:38	10:39:36.7	+43:06:09	300	90	3.0	#56 Photometri		
21.30.FLAT	8	0:40	10:39:36.7	+43:06:09	300	90	3.0	#56 Photometri		
31.40.BIAS	0	0:43	10:39:36.7	+43:06:09	300	90	3.0	#56 Photometri		
41.50.FLAT	16	0:45	10:39:36.7	+43:06:09	300	90	3.0	#56 Photometri		
51.55.sky	3	0:51	19:59:00	31:30:00	300	90	3.0	#57 Velocity S		thin clouds to W
0056.COMP	5	0:53	19:59:00	31:30:00	300	90	3.0	#57 Velocity S		
57.59.HD192281	5	1:15	20:12:33.1	+40:16:05	300	90	3.0	#56 Photometri		
0060.COMP	5	1:16	20:12:33.1	+40:16:05	300	90	3.0	#56 Photometri		
0061.2M200605.4p1333	150	1:27	20:06:05.3	+13:33:19	300	90	3.0	#68 2MASS Reds		
0062.COMP	5	1:30	20:06:05.3	+13:33:19	300	90	3.0	#68 2MASS Reds		
0063.2M195706.1p0522	170	1:30	19:57:06.0	+05:22:43	300	90	3.0	#68 2MASS Reds		
0064.COMP	5	1:34	19:57:06.0	+05:22:43	300	90	3.0	#68 2MASS Reds		
0065.2M194158.5p0133	180	1:34	19:41:58.5	+01:33:21	300	90	3.0	#68 2MASS Reds		
0066.COMP	5	1:38	19:41:58.5	+01:33:21	300	90	3.0	#68 2MASS Reds		
0067.2M194203.8p0157	180	1:38	19:42:03.8	+01:57:40	300	90	3.0	#68 2MASS Reds		
0068.COMP	5	1:41	19:42:03.8	+01:57:40	300	90	3.0	#68 2MASS Reds		
0069.2M193660.0p0014	210	1:42	19:36:59.9	+00:14:46	300	90	3.0	#68 2MASS Reds		
0070.COMP	5	1:46	19:36:59.9	+00:14:46	300	90	3.0	#68 2MASS Reds		
0071.id1267	210	1:47	20:07:07.8	35:55:18	300	90	3.0	#115 PMS NGC68		pretty clear!



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0072.id1694	210	1:51	20:06:15.0	35:41:01	300	90	3.0	#115 PMS NGC68		
0073.id2515	270	1:55	20:04:14.4	35:55:27	300	90	3.0	#115 PMS NGC68		
0074.COMP	5	2:00	20:04:14.4	35:55:27	300	90	3.0	#115 PMS NGC68		
0075.id2640	210	2:00	19:59:59.6	35:21:50	300	90	3.0	#115 PMS NGC68		
0076.id1018	210	2:05	20:07:32.9	35:40:52	300	90	3.0	#115 PMS NGC68		
0077.id1190	210	2:09	20:07:17.5	35:47:45	300	90	3.0	#115 PMS NGC68		
0078.COMP	5	2:13	20:07:17.5	35:47:45	300	90	3.0	#115 PMS NGC68		
0079.id1647	240	2:13	20:06:21.1	35:56:00	300	90	3.0	#115 PMS NGC68		PMS *
0080.id2210	270	2:18	20:05:12.4	35:45:31	300	90	3.0	#115 PMS NGC68		
0081.id2220	270	2:23	20:05:11.0	35:43:25	300	90	3.0	#115 PMS NGC68		
0082.COMP	5	2:28	20:05:11.0	35:43:25	300	90	3.0	#115 PMS NGC68		
0083.id2224	270	2:29	20:05:10.7	35:55:50	300	90	3.0	#115 PMS NGC68		
0084.id2487	270	2:34	20:04:19.6	35:46:39	300	90	3.0	#115 PMS NGC68		
0085.id2734	270	2:40	19:59:27.3	35:16:43	300	90	3.0	#115 PMS NGC68		
0086.COMP	5	2:45	19:59:27.3	35:16:43	300	90	3.0	#115 PMS NGC68		
87.88.BDp284211	45	2:46	21:51:11.0	+28:51:50	300	90	3.0	#56 Photometri		
0089.COMP	10	2:49	21:51:11.0	+28:51:50	300	90	3.0	#56 Photometri		
0090.id2191	270	2:50	20:05:14.5	35:43:56	300	90	3.0	#115 PMS NGC68		
0091.id2317	270	2:54	20:04:53.9	35:52:53	300	90	3.0	#115 PMS NGC68		
0092.id2721	300	2:59	19:59:30.7	35:13:10	300	90	3.0	#115 PMS NGC68		



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UT Date 10/30/00 Observers P. BerlindColl. Focus 965 Filter none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0093.COMP	5	3:05	19:59:30.7	35:13:10	300	90	3.0	#115 PMS NGC68		
0094.id1050	300	3:05	20:07:29.5	35:36:20	300	90	3.0	#115 PMS NGC68		
0095.id1459	300	3:11	20:06:47.3	35:35:03	300	90	3.0	#115 PMS NGC68		
0096.id1688	300	3:16	20:06:15.3	35:40:46	300	90	3.0	#115 PMS NGC68		
0097.COMP	5	3:22	20:06:15.3	35:40:46	300	90	3.0	#115 PMS NGC68		
0098.id2226	300	3:22	20:05:10.6	35:50:21	300	90	3.0	#115 PMS NGC68		
0099.id2319	300	3:27	20:04:53.5	35:42:14	300	90	3.0	#115 PMS NGC68		
0100.id2579	300	3:33	20:04:01.3	35:36:47	300	90	3.0	#115 PMS NGC68		
0101.id2228	300	3:38	20:05:09.9	35:54:16	300	90	3.0	#115 PMS NGC68		
0102.COMP	5	3:44	20:05:09.9	35:54:16	300	90	3.0	#115 PMS NGC68		
0103.id2639	300	3:44	20:00:00.4	35:20:09	300	90	3.0	#115 PMS NGC68		
0104.id2814	300	3:50	19:58:55.5	35:09:23	300	90	3.0	#115 PMS NGC68		
0105.id2833	300	3:55	19:58:50.3	35:23:08	300	90	3.0	#115 PMS NGC68		
0106.COMP	5	4:00	19:58:50.3	35:23:08	300	90	3.0	#115 PMS NGC68		
0107.id1245	300	4:01	20:07:11.2	35:53:05	300	90	3.0	#115 PMS NGC68		
0108.id1531	300	4:07	20:06:36.4	35:39:19	300	90	3.0	#115 PMS NGC68		
0109.id2535	300	4:12	20:04:09.8	35:34:56	300	90	3.0	#115 PMS NGC68		
0110.COMP	5	4:17	20:04:09.8	35:34:56	300	90	3.0	#115 PMS NGC68		
0111.srgb037.078	660	4:19	23:33:23.5	+04:23:12	300	90	3.0	#59 X-Ray Grou		
0112.COMP	5	4:30	23:33:23.5	+04:23:12	300	90	3.0	#59 X-Ray Grou		



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UT Date 10/30/00 Observers P. BerlindColl. Focus 965 Filter none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0113.srgb037.076	720	4:31	23:33:12.7	+04:33:20	300	90	3.0	#59 X-Ray Grou		clouds in west
0114.COMP	5	4:43	23:33:12.7	+04:33:20	300	90	3.0	#59 X-Ray Grou		
0115.srgb037.075	720	4:44	23:33:11.0	+02:41:38	300	90	3.0	#59 X-Ray Grou		
0116.COMP	5	4:56	23:33:11.0	+02:41:38	300	90	3.0	#59 X-Ray Grou		
0117.srgb037.071	720	4:57	23:32:42.0	+03:41:12	300	90	3.0	#59 X-Ray Grou		
0118.COMP	5	5:09	23:32:42.0	+03:41:12	300	90	3.0	#59 X-Ray Grou		
0119.srgb037.072	720	5:10	23:32:47.0	+02:33:12	300	90	3.0	#59 X-Ray Grou		
0120.COMP	5	5:23	23:32:47.0	+02:33:12	300	90	3.0	#59 X-Ray Grou		
0121.srgb037.085	720	5:23	23:35:00.8	+02:58:38	300	90	3.0	#59 X-Ray Grou		clouds moving in
0122.COMP	5	5:36	23:35:00.8	+02:58:38	300	90	3.0	#59 X-Ray Grou		
0123.srgb037.086	720	5:36	23:35:12.1	+03:34:14	300	90	3.0	#59 X-Ray Grou		
0124.COMP	5	5:49	23:35:12.1	+03:34:14	300	90	3.0	#59 X-Ray Grou		
0125.srgb090.035	720	5:50	01:05:52.7	+32:45:38	300	90	3.0	#59 X-Ray Grou		
0126.COMP	5	6:02	01:05:52.7	+32:45:38	300	90	3.0	#59 X-Ray Grou		
0127.srgb090.037	210	6:03	01:06:07.0	+32:36:29	300	90	3.0	#59 X-Ray Grou		star; no galaxy
0128.COMP	5	6:07	01:06:07.0	+32:36:29	300	90	3.0	#59 X-Ray Grou		
0129.srgb090.038	720	6:08	01:06:09.9	+31:24:19	300	90	3.0	#59 X-Ray Grou		
0130.COMP	5	6:20	01:06:09.9	+31:24:19	300	90	3.0	#59 X-Ray Grou		
0131.srgb090.039	720	6:21	01:06:24.6	+33:36:12	300	90	3.0	#59 X-Ray Grou		
0132.COMP	5	6:33	01:06:24.6	+33:36:12	300	90	3.0	#59 X-Ray Grou		



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UT Date 10/30/00 Observers P. BerlindColl. Focus 965 Filter none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0133.srgb090.040	420	6:33	01:06:24.8	+33:46:10	300	90	3.0	#59 X-Ray Grou		
0134.COMP	5	6:41	01:06:24.8	+33:46:10	300	90	3.0	#59 X-Ray Grou		
0135.srgb090.041	600	6:41	01:06:37.3	+33:36:23	300	90	3.0	#59 X-Ray Grou		
0136.COMP	5	6:52	01:06:37.3	+33:36:23	300	90	3.0	#59 X-Ray Grou		
0137.srgb090.043	600	6:52	01:06:46.0	+33:13:51	300	90	3.0	#59 X-Ray Grou		
0138.COMP	5	7:03	01:06:46.0	+33:13:51	300	90	3.0	#59 X-Ray Grou		
0139.srgb090.044	480	7:03	01:06:51.6	+32:42:01	300	90	3.0	#59 X-Ray Grou		
0140.COMP	5	7:11	01:06:51.6	+32:42:01	300	90	3.0	#59 X-Ray Grou		
0141.srgb090.054	900	7:12	01:07:09.0	+33:18:35	300	90	3.0	#59 X-Ray Grou		
0142.COMP	5	7:27	01:07:09.0	+33:18:35	300	90	3.0	#59 X-Ray Grou		
0143.srgb090.053	100	7:28	01:07:06.1	+32:47:38	300	90	3.0	#59 X-Ray Grou		
0144.COMP	5	7:30	01:07:06.1	+32:47:38	300	90	3.0	#59 X-Ray Grou		
0145.srgb090.055	100	7:30	01:07:15.8	+32:31:11	300	90	3.0	#59 X-Ray Grou		
0146.COMP	5	7:32	01:07:15.8	+32:31:11	300	90	3.0	#59 X-Ray Grou		
0147.srgb090.057	100	7:33	01:07:17.8	+32:28:56	300	90	3.0	#59 X-Ray Grou		
0148.COMP	5	7:35	01:07:17.8	+32:28:56	300	90	3.0	#59 X-Ray Grou		
0149.srgb090.060	120	7:35	01:07:24.1	+32:24:11	300	90	3.0	#59 X-Ray Grou		
0150.srgb090.062	120	7:38	01:07:25.2	+32:24:43	300	90	3.0	#59 X-Ray Grou		
0151.COMP	5	7:40	01:07:25.2	+32:24:43	300	90	3.0	#59 X-Ray Grou		
0152.srgb090.061	90	7:40	01:07:25.2	+32:17:32	300	90	3.0	#59 X-Ray Grou		



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0153.srgb090.063	120	7:42	01:07:27.2	+32:19:09	300	90	3.0	#59 X-Ray Grou		
0154.COMP	5	7:45	01:07:27.2	+32:19:09	300	90	3.0	#59 X-Ray Grou		
0155.srgb090.064	150	7:45	01:07:31.5	+32:21:39	300	90	3.0	#59 X-Ray Grou		
0156.COMP	5	7:48	01:07:31.5	+32:21:39	300	90	3.0	#59 X-Ray Grou		
157.158.BGGem	180	7:49	6:03:31	27:41:50	300	90	3.0	#100 BGGem		
0159.COMP	10	8:08	6:03:31	27:41:50	300	90	3.0	#100 BGGem		
0160.2M025400.1p3625	150	8:10	02:54:00.0	+36:25:52	300	90	3.0	#68 2MASS Reds		
0161.COMP	5	8:13	02:54:00.0	+36:25:52	300	90	3.0	#68 2MASS Reds		
0162.022149p565636	210	8:13	02:21:49.8	+56:56:36	300	90	3.0	#83 h/chi Pers		
0163.022149p570821	180	8:17	02:21:49.6	+57:08:21	300	90	3.0	#83 h/chi Pers		
0164.COMP	5	8:21	02:21:49.6	+57:08:21	300	90	3.0	#83 h/chi Pers		
0165.022150p565758	360	8:21	02:21:50.1	+56:57:58	300	90	3.0	#83 h/chi Pers		
166.167.022153p570955	25	8:28	02:21:53.0	+57:09:55	300	90	3.0	#83 h/chi Pers	Be *	
0168.COMP	5	8:29	02:21:53.0	+57:09:55	300	90	3.0	#83 h/chi Pers		
0169.022155p570555	25	8:30	02:21:55.4	+57:05:55	300	90	3.0	#83 h/chi Pers		
0170.022157p572024	25	8:31	02:21:57.1	+57:20:24	300	90	3.0	#83 h/chi Pers		
0171.COMP	5	8:32	02:21:57.1	+57:20:24	300	90	3.0	#83 h/chi Pers		
0172.022158p565636	210	8:33	02:21:58.2	+56:56:37	300	90	3.0	#83 h/chi Pers		
0173.022159p565636	25	8:37	02:21:59.2	+56:56:36	300	90	3.0	#83 h/chi Pers		
0174.COMP	5	8:38	02:21:59.2	+56:56:36	300	90	3.0	#83 h/chi Pers		



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0175.022159p571931	180	8:39	02:21:59.9	+57:19:31	300	90	3.0	#83 h/chi Pers		
0176.022200p565615	270	8:42	02:22:00.2	+56:56:15	300	90	3.0	#83 h/chi Pers		
0177.COMP	5	8:47	02:22:00.2	+56:56:15	300	90	3.0	#83 h/chi Pers		
0178.022200p565812	360	8:48	02:22:00.5	+56:58:12	300	90	3.0	#83 h/chi Pers		
0179.022200p570812	10	8:55	02:22:00.7	+57:08:12	300	90	3.0	#83 h/chi Pers		
0180.COMP	5	8:55	02:22:00.7	+57:08:12	300	90	3.0	#83 h/chi Pers		
0181.022200p570820	360	8:56	02:22:00.4	+57:08:20	300	90	3.0	#83 h/chi Pers		
0182.022200p570934	30	9:04	02:22:00.8	+57:09:34	300	90	3.0	#83 h/chi Pers		
0183.COMP	5	9:05	02:22:00.8	+57:09:34	300	90	3.0	#83 h/chi Pers		
0184.022202p570822	20	9:05	02:22:02.7	+57:08:22	300	90	3.0	#83 h/chi Pers		
0185.022201p571810	300	9:06	02:22:01.0	+57:18:10	300	90	3.0	#83 h/chi Pers		
0186.COMP	5	9:12	02:22:01.0	+57:18:10	300	90	3.0	#83 h/chi Pers		
0187.022202p570917	30	9:12	02:22:02.6	+57:09:17	300	90	3.0	#83 h/chi Pers		
0188.022204p571036	20	9:13	02:22:04.5	+57:10:36	300	90	3.0	#83 h/chi Pers		
0189.COMP	5	9:14	02:22:04.5	+57:10:36	300	90	3.0	#83 h/chi Pers		
190.191.022206p570523	10	9:15	02:22:06.6	+57:05:23	300	90	3.0	#83 h/chi Pers	Be *	
0192.022208p571839	300	9:18	02:22:08.1	+57:18:40	300	90	3.0	#83 h/chi Pers		
0193.COMP	5	9:23	02:22:08.1	+57:18:40	300	90	3.0	#83 h/chi Pers		
0194.022209p565629	240	9:24	02:22:10.0	+56:56:29	300	90	3.0	#83 h/chi Pers		
0195.022209p570658	10	9:29	02:22:09.5	+57:06:58	300	90	3.0	#83 h/chi Pers		



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UT Date 10/30/00 Observers P. BerlindColl. Focus 965 Filter none

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0196.COMP	5	9:30	02:22:09.5	+57:06:58	300	90	3.0	#83 h/chi Pers		
0197.022213p571922	30	9:30	02:22:13.8	+57:19:22	300	90	3.0	#83 h/chi Pers		
0198.022215p571659	210	9:31	02:22:15.6	+57:16:59	300	90	3.0	#83 h/chi Pers		
0199.COMP	5	9:35	02:22:15.6	+57:16:59	300	90	3.0	#83 h/chi Pers		
0200.022217p570723	10	9:35	02:22:17.5	+57:07:23	300	90	3.0	#83 h/chi Pers		
0201.022218p571150	30	9:36	02:22:18.5	+57:11:50	300	90	3.0	#83 h/chi Pers		clouds increasing...
0202.COMP	5	9:37	02:22:18.5	+57:11:50	300	90	3.0	#83 h/chi Pers		
0203.022221p571945	210	9:38	02:22:21.6	+57:19:45	300	90	3.0	#83 h/chi Pers		
0204.022222p571706	10	9:42	02:22:22.6	+57:17:06	300	90	3.0	#83 h/chi Pers		
0205.COMP	5	9:42	02:22:22.6	+57:17:06	300	90	3.0	#83 h/chi Pers		
0206.022226p570652	360	9:43	02:22:26.0	+57:06:52	300	90	3.0	#83 h/chi Pers		
0207.022228p565738	360	9:50	02:22:28.7	+56:57:38	300	90	3.0	#83 h/chi Pers		
0208.COMP	5	9:56	02:22:28.7	+56:57:38	300	90	3.0	#83 h/chi Pers		
209.210.BGGem	900	10:00	6:03:31	27:41:50	300	90	3.0	#100 BGGem		
0211.COMP	10	10:17	6:03:31	27:41:50	300	90	3.0	#100 BGGem		
0212.a496_266	720	10:19	04:21:32.3	-13:22:49	300	90	3.0	#64 Cluster In		
0213.COMP	5	10:31	04:21:32.3	-13:22:49	300	90	3.0	#64 Cluster In		
0214.a496_267	600	10:33	04:24:53.1	-09:48:31	300	90	3.0	#64 Cluster In		
0215.COMP	5	10:43	04:24:53.1	-09:48:31	300	90	3.0	#64 Cluster In		
0216.a496_268	720	10:44	04:36:17.4	-15:53:24	300	90	3.0	#64 Cluster In		stopped by clouds



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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>Bin</i>	<i>Comments</i>
0217.COMP	5	10:56	04:36:17.4	-15:53:24	300	90	3.0	#64 Cluster In		
218.227.BIAS	0	11:03	04:37:02.8	+16:24:21	300	90	3.0	#100 BGGem		
228.237.FLAT	8	11:05	04:37:02.8	+16:24:21	300	90	3.0	#100 BGGem		
238.247.BIAS	0	11:08	04:37:02.8	+16:24:21	300	90	3.0	#100 BGGem		
248.257.FLAT	16	11:11	04:37:02.8	+16:24:21	300	90	3.0	#100 BGGem		