

UT Date 2013-10-02 Observers M CalkinsColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	02:27	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	4	
0011-0030.FLAT	7	02:33	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0031-0040.BIAS	0	02:36	15:51:59.9	+32:56:54	300	89	3.0	0 Calibration	2	
0041.DASCH_J1847-1845	60	02:38	18:47:33.4	-18:45:15	300	89	3.0	#192 DASCH Lon	2	saturated in the red
0042.DASCH_J1847-1845	15	02:40	18:47:33.4	-18:45:15	300	89	3.0	#192 DASCH Lon	2	
0043.COMP	10	02:41	18:47:33.4	-18:45:15	300	89	3.0	0 Calibration	2	
0044.K4644922	70	02:44	19:15:12.1	+39:42:50	300	89	3.0	#192 DASCH Lon	2	
0045.K4644922	210	02:46	19:15:12.1	+39:42:50	300	89	3.0	#192 DASCH Lon	2	
0046.K4644922	420	02:50	19:15:12.1	+39:42:50	300	89	3.0	#192 DASCH Lon	2	
0047.COMP	10	02:58	19:15:12.1	+39:42:50	300	89	3.0	0 Calibration	2	
0048.DASCH_J1924+2621	25	03:00	19:24:33.1	+26:21:44	300	89	3.0	#192 DASCH Lon	2	
0049.COMP	5	03:02	19:24:33.1	+26:21:44	300	89	3.0	0 Calibration	2	
0050.DASCH_J1822+4434	480	03:04	18:22:47.1	+44:34:43	300	90	3.0	#192 DASCH Lon	2	
0051.COMP	10	03:13	18:22:47.1	+44:34:43	300	89	3.0	0 Calibration	2	
0052.DASCH_J1837+4451	300	03:14	18:37:13.4	+44:51:38	300	89	3.0	#192 DASCH Lon	2	
0053.COMP	10	03:20	18:37:13.4	+44:51:38	300	89	3.0	0 Calibration	2	
0054.DASCH_J1943+4140	40	03:22	19:43:28.7	+41:40:07	300	89	3.0	#192 DASCH Lon	2	
0055.DASCH_J1943+4140	120	03:23	19:43:28.7	+41:40:07	300	89	3.0	#192 DASCH Lon	2	
0056.COMP	10	03:26	19:43:28.7	+41:40:07	300	89	3.0	0 Calibration	2	
0057.DASCH_J2021+3218	30	03:28	20:21:33.1	+32:18:51	300	89	3.0	#192 DASCH Lon	2	

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0058.DASCH_J2021+3218	11	03:29	20:21:33.1	+32:18:51	300	89	3.0	#192 DASCH Lon	2	
0059.COMP	10	03:30	20:21:33.1	+32:18:51	300	89	3.0	0 Calibration	2	
0060.DASCH_J2036+0223	15	03:33	20:36:36.4	+02:23:49	300	89	3.0	#192 DASCH Lon	2	
0061.DASCH_J2036+0223	30	03:34	20:36:36.4	+02:23:49	300	89	3.0	#192 DASCH Lon	2	
0062.DASCH_J2036+0223	60	03:35	20:36:36.4	+02:23:49	300	89	3.0	#192 DASCH Lon	2	
0063.COMP	10	03:36	20:36:36.4	+02:23:49	300	89	3.0	0 Calibration	2	
0064.DASCH_J2123+4115	15	03:39	21:23:26.5	+41:15:59	300	89	3.0	#192 DASCH Lon	2	
0065.DASCH_J2123+4115	25	03:40	21:23:26.5	+41:15:59	300	89	3.0	#192 DASCH Lon	2	
0066.COMP	10	03:41	21:23:26.5	+41:15:59	300	89	3.0	0 Calibration	2	
0067.HPbcg033	1800	03:46	00:10:59.3	+32:40:48	300	78	3.0	#210 Brightest	2	
0068.COMP	10	04:16	00:10:59.3	+32:40:48	300	76	3.0	0 Calibration	2	
0069.HPbcg034	2700	04:20	00:10:18.3	+32:27:03	300	109	3.0	#210 Brightest	2	
0070.COMP	10	05:06	00:10:18.3	+32:27:03	300	109	3.0	0 Calibration	2	
0071.HPbcg036	900	05:08	00:11:37.5	+32:37:21	300	91	3.0	#210 Brightest	2	
0072.COMP	10	05:24	00:11:37.5	+32:37:21	300	90	3.0	0 Calibration	2	
0073.HPbcg037	1200	05:25	00:11:34.8	+32:28:16	300	90	3.0	#210 Brightest	2	
0074.COMP	10	05:46	00:11:34.8	+32:28:16	300	90	3.0	0 Calibration	2	
0075.BDp284211	90	05:48	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0076.COMP	10	05:50	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0077.BDp284211	90	05:52	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0078.COMP	10	05:54	21:51:11.0	+28:51:50	300	91	3.0	0 Calibration	2	
0079.BDp174708	80	05:56	22:11:31.4	+18:05:34	300	91	3.0	#56 Spectropho	2	
0080.COMP	10	05:58	22:11:31.4	+18:05:34	300	91	3.0	0 Calibration	2	
0081.M31	60	06:00	00:42:44.3	+41:16:09	300	91	3.0	#57 Velocity S	2	
0082.COMP	10	06:02	00:42:44.3	+41:16:09	300	91	3.0	0 Calibration	2	
0083.HPbcg039	1200	06:05	00:12:30.5	+32:19:12	300	91	3.0	#210 Brightest	2	
0084.COMP	10	06:25	00:12:30.5	+32:19:12	300	91	3.0	0 Calibration	2	
0085.sn2013fn	1800	06:29	21:00:23.8	-14:29:52	300	91	3.0	#2 SN Observat	2	
0086.COMP	10	07:00	21:00:23.8	-14:29:52	300	90	3.0	0 Calibration	2	
0087.psn2215	2400	07:04	22:15:28.5	+15:34:04	300	90	3.0	#2 SN Observat	2	
0088.COMP	10	07:44	22:15:28.5	+15:34:04	300	91	3.0	0 Calibration	2	
0089.HPbcg041	1200	07:48	00:11:05.1	+31:54:30	300	91	3.0	#210 Brightest	2	
0090.COMP	10	08:08	00:11:05.1	+31:54:30	300	91	3.0	0 Calibration	2	
0091.HPbcg043	1500	08:10	00:10:40.2	+32:49:29	300	91	3.0	#210 Brightest	2	
0092.COMP	10	08:35	00:10:40.2	+32:49:29	300	91	3.0	0 Calibration	2	
0093.HPbcg045	1080	08:37	00:20:41.9	+28:37:19	300	91	3.0	#210 Brightest	2	
0094.COMP	10	08:55	00:20:41.9	+28:37:19	300	91	3.0	0 Calibration	2	
0095.HPbcg050	1200	08:57	00:21:03.6	+28:27:27	300	91	3.0	#210 Brightest	2	
0096.COMP	10	09:18	00:21:03.6	+28:27:27	300	91	3.0	0 Calibration	2	
0097.HPbcg108	1200	09:20	02:15:32.9	-04:46:07	300	91	3.0	#210 Brightest	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0098.COMP	10	09:48	02:15:32.9	-04:46:07	300	91	3.0	0 Calibration	2	
0099.HPbcg109	900	09:50	02:21:39.4	+21:00:34	300	91	3.0	#210 Brightest	2	
0100.COMP	10	10:05	02:21:39.4	+21:00:34	300	90	3.0	0 Calibration	2	
0101.HPbcg056	900	10:07	02:20:57.1	+21:39:43	300	90	3.0	#210 Brightest	2	
0102.COMP	10	10:23	02:20:57.1	+21:39:43	300	90	3.0	0 Calibration	2	
0103.HPbcg057	2400	10:25	02:21:33.8	+21:21:57	300	91	3.0	#210 Brightest	2	
0104.COMP	10	11:05	02:21:33.8	+21:21:57	300	91	3.0	0 Calibration	2	
0105.HPbcg058	1500	11:07	02:19:34.3	+21:02:22	300	91	3.0	#210 Brightest	2	
0106.COMP	10	11:32	02:19:34.3	+21:02:22	300	91	3.0	0 Calibration	2	
0107.snj0503	1200	11:34	05:03:35.1	+01:34:17	300	40	3.0	#2 SN Observat	2	
0108.COMP	10	11:55	05:03:35.1	+01:34:17	300	41	3.0	0 Calibration	2	
0109-0118.BIAS	0	12:31	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	
0119-0138.FLAT	7	12:38	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	
0139-0148.DARK	900	15:00	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.DARK	900	22:14	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	binby2
0002-0005.DARK	900	23:15	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	
0006.BIAS	0	23:37	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	1	standard setup, binby1
0007.BIAS	0	23:37	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	1	calibs for Ken/Perry
0008-0020.BIAS	0	23:41	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	1	
0021-0035.FLAT	15	23:50	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	1	
0036.COMP	10	23:52	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	1	
0037.BIAS	0	23:54	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	4	binby4
0038-0046.BIAS	0	23:55	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	4	
0047-0056.FLAT	4	23:57	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	4	
0057.BIAS	0	23:58	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	binby2
0058-0066.BIAS	0	23:59	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	
0067-0081.FLAT	7	00:04	04:13:34.8	+10:29:50	300	90	3.0	0 Calibration	2	
0082.HD192281	5	01:58	20:12:33.1	+40:16:05	300	-19	3.0	#56 Spectropho	2	
0083.COMP	10	01:58	20:12:33.1	+40:16:05	300	-19	3.0	0 Calibration	2	
0084.HD192281	10	01:59	20:12:33.1	+40:16:05	300	-19	3.0	#56 Spectropho	2	
0085.HD192281	10	01:59	20:12:33.1	+40:16:05	300	-19	3.0	#56 Spectropho	2	
0086.HD192281	10	02:00	20:12:33.1	+40:16:05	300	-19	3.0	#56 Spectropho	2	
0087.BDp404032	120	02:01	20:08:24.1	+41:15:04	300	-21	3.0	#56 Spectropho	2	
0088.COMP	10	02:04	20:08:24.1	+41:15:04	300	-21	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0089.19471474+1305441	876	02:05	19:47:14.7	+13:05:44	300	-19	3.0	#141 2MASS Red	2	
0090.COMP	10	02:20	19:47:14.7	+13:05:44	300	-19	3.0	0 Calibration	2	
0091.A01490.1	1200	02:24	15:44:01.0	+55:16:42	300	25	3.0	#216 Local Com	2	.1 at y=108, .2 at y=47
0092.COMP	10	02:44	15:44:01.0	+55:16:42	300	25	3.0	0 Calibration	2	
0093.A01395.2	1200	02:46	16:09:27.8	+55:29:22	300	24	3.0	#216 Local Com	2	
0094.COMP	10	03:06	16:09:27.8	+55:29:22	300	24	3.0	0 Calibration	2	
0095.HPbcg067	1200	03:09	22:00:27.6	+20:50:12	300	25	3.0	#210 Brightest	2	
0096.COMP	10	03:30	22:00:27.6	+20:50:12	300	25	3.0	0 Calibration	2	
0097.HPbcg072	1800	03:31	22:27:19.1	+17:10:07	300	24	3.0	#210 Brightest	2	
0098.COMP	10	04:02	22:27:19.1	+17:10:07	300	24	3.0	0 Calibration	2	
0099.sn2013fn	1800	04:07	21:00:23.8	-14:29:52	300	15	3.0	#2 SN Observat	2	
0100.COMP	10	04:37	21:00:23.8	-14:29:52	300	15	3.0	0 Calibration	2	
0101.BDp284211	90	04:41	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0102.COMP	10	04:43	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0103.BDp174708	90	04:45	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0104.COMP	10	04:47	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0105.psn2215	1800	04:50	22:15:28.5	+15:34:04	300	90	3.0	#2 SN Observat	2	
0106.COMP	10	05:20	22:15:28.5	+15:34:04	300	90	3.0	0 Calibration	2	
0107.HPbcg069	1800	05:22	22:24:34.3	-01:27:45	300	90	3.0	#210 Brightest	2	a lot bright than I thought
0108.COMP	10	05:52	22:24:34.3	-01:27:45	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0109.HPbcg085	1800	05:54	23:33:34.8	+05:19:43	300	90	3.0	#210 Brightest	2	
0110.COMP	10	06:25	23:33:34.8	+05:19:43	300	90	3.0	0 Calibration	2	
0111.HPbcg098	1200	06:26	23:44:35.3	-04:28:27	300	90	3.0	#210 Brightest	2	
0112.COMP	10	06:47	23:44:35.3	-04:28:27	300	90	3.0	0 Calibration	2	
0113.HPbcg099	1200	06:48	23:44:00.7	-04:48:22	300	90	3.0	#210 Brightest	2	
0114.COMP	10	07:08	23:44:00.7	-04:48:22	300	90	3.0	0 Calibration	2	
0115.HPbcg091	2400	07:17	23:50:03.6	+06:29:38	300	90	3.0	#210 Brightest	2	
0116.COMP	10	07:57	23:50:03.6	+06:29:38	300	90	3.0	0 Calibration	2	
0117.HPbcg097	1800	07:59	23:51:07.6	+29:52:07	300	90	3.0	#210 Brightest	2	
0118.COMP	10	08:29	23:51:07.6	+29:52:07	300	90	3.0	0 Calibration	2	
0119.M31	60	08:31	00:42:44.3	+41:16:09	300	90	3.0	#57 Velocity S	2	
0120.COMP	10	08:32	00:42:44.3	+41:16:09	300	90	3.0	0 Calibration	2	
0121.M31	60	08:33	00:42:44.3	+41:16:09	300	90	3.0	#57 Velocity S	2	
0122.M31	60	08:34	00:42:44.3	+41:16:09	300	90	3.0	#57 Velocity S	2	
0123.back65	1800	08:41	02:05:50.0	+15:24:43	300	90	3.0	#216 Local Com	2	
0124.COMP	10	09:12	02:05:50.0	+15:24:43	300	90	3.0	0 Calibration	2	
0125.back38	1800	09:13	02:05:10.0	+15:07:30	300	90	3.0	#216 Local Com	2	
0126.COMP	10	09:44	02:05:10.0	+15:07:30	300	90	3.0	0 Calibration	2	
0127.back20	971	09:45	02:04:58.3	+15:00:20	300	90	3.0	#216 Local Com	2	
0128.COMP	10	10:02	02:04:58.3	+15:00:20	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0129.back45	1800	10:03	02:06:02.0	+14:50:27	300	90	3.0	#216 Local Com	2	
0130.COMP	10	10:34	02:06:02.0	+14:50:27	300	90	3.0	0 Calibration	2	
0131.back06	900	10:35	02:05:10.3	+15:23:36	300	90	3.0	#216 Local Com	2	
0132.COMP	10	10:50	02:05:10.3	+15:23:36	300	90	3.0	0 Calibration	2	
0133.HPbcg147	2400	10:52	04:13:25.2	+10:27:53	300	101	3.0	#210 Brightest	2	
0134.COMP	10	11:33	04:13:25.2	+10:27:53	300	101	3.0	0 Calibration	2	
0135.snj0503	1800	11:38	05:03:35.1	+01:34:17	300	41	3.0	#2 SN Observat	2	
0136.COMP	10	12:08	05:03:35.1	+01:34:17	300	40	3.0	0 Calibration	2	
0137.DASCH_J0804+5316	60	12:13	08:04:09.1	+53:16:43	300	90	3.0	#192 DASCH Lon	2	nowhere near enough
0138.COMP	10	12:14	08:04:09.1	+53:16:43	300	90	3.0	0 Calibration	2	
0139.DASCH_J0804+5316	300	12:15	08:04:09.1	+53:16:43	300	89	3.0	#192 DASCH Lon	2	
0140.COMP	10	12:20	08:04:09.1	+53:16:43	300	89	3.0	0 Calibration	2	
0141.Hiltner600	90	12:23	06:45:13.4	+02:08:15	300	89	3.0	#56 Spectropho	2	
0142.COMP	10	12:25	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0143.G191B2B	300	12:27	05:05:30.6	+52:49:52	300	90	3.0	#56 Spectropho	2	
0144.COMP	10	12:32	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0145-0154.BIAS	0	12:36	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0155-0164.FLAT	4	12:38	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0165-0174.BIAS	0	12:40	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0175-0189.FLAT	7	12:45	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	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>Bin</i>	<i>Comments</i>
0190-0194.DARK	900	13:55	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0195-0199.DARK	900	15:11	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	23:17	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0006.BIAS	0	00:34	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	standard setup
0007-0015.BIAS	0	00:35	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0016-0025.FLAT	4	00:37	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0026-0035.BIAS	0	00:39	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0036-0050.FLAT	7	00:44	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0051.HD192281	10	01:57	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	01:58	20:12:33.1	+40:16:05	300	90	3.0	0 Calibration	2	
0053.HD192281	10	01:59	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0054.HD192281	10	01:59	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0055.BDp404032	120	02:00	20:08:24.1	+41:15:04	300	90	3.0	#56 Spectropho	2	
0056.COMP	10	02:03	20:08:24.1	+41:15:04	300	90	3.0	0 Calibration	2	
0057.A01972.1	900	02:06	15:53:49.5	+56:25:24	300	90	3.0	#216 Local Com	2	
0058.COMP	10	02:21	15:53:49.5	+56:25:24	300	89	3.0	0 Calibration	2	
0059.A01395.1	1800	02:23	16:09:30.7	+55:31:47	300	90	3.0	#216 Local Com	2	
0060.COMP	10	02:53	16:09:30.7	+55:31:47	300	90	3.0	0 Calibration	2	
0061.A01339.1	1200	02:55	16:17:30.1	+46:37:50	300	90	3.0	#216 Local Com	2	seeing not quite as good as last night
0062.COMP	10	03:15	16:17:30.1	+46:37:50	300	90	3.0	0 Calibration	2	
0063.sn2013fn	1800	03:20	21:00:23.8	-14:29:52	300	16	3.0	#2 SN Observat	2	
0064.COMP	10	03:51	21:00:23.8	-14:29:52	300	16	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0065.HPbcg074	1171	03:55	22:27:58.7	+17:09:13	300	89	3.0	#210 Brightest	2	
0066.COMP	10	04:15	22:27:58.7	+17:09:13	300	89	3.0	0 Calibration	2	
0067.HPbcg076	2104	04:17	22:34:23.6	+05:50:18	300	89	3.0	#210 Brightest	2	
0068.COMP	10	04:53	22:34:23.6	+05:50:18	300	90	3.0	0 Calibration	2	
0069.BDp284211	90	04:55	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	bit weak will do over
0070.COMP	10	04:57	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0071.BDp174708	90	04:58	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0072.COMP	10	05:00	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0073.BDp284211	180	05:02	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0074.COMP	10	05:05	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0075.HPbcg079	1800	05:07	22:37:43.9	+01:35:27	300	89	3.0	#210 Brightest	2	
0076.COMP	10	05:38	22:37:43.9	+01:35:27	300	89	3.0	0 Calibration	2	
0077.HPbcg086	2002	05:42	23:35:24.8	+06:05:33	300	89	3.0	#210 Brightest	2	cloud at end
0078.COMP	10	06:15	23:35:24.8	+06:05:33	300	90	3.0	0 Calibration	2	
0079.back04	917	08:56	02:05:55.7	+15:09:38	300	10	3.0	#216 Local Com	2	
0080.COMP	10	09:12	02:05:55.7	+15:09:38	300	10	3.0	0 Calibration	2	
0081.back13	1200	09:14	02:06:11.0	+15:07:57	300	9	3.0	#216 Local Com	2	
0082.COMP	10	09:35	02:06:11.0	+15:07:57	300	9	3.0	0 Calibration	2	
0083.HPbcg150	2400	09:37	04:13:34.8	+10:29:50	300	0	3.0	#210 Brightest	2	faint target, very weak. do over?
0084.COMP	10	10:17	04:13:34.8	+10:29:50	300	0	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0085.psn0408p2317	1800	10:21	04:08:02.4	+23:17:39	300	39	3.0	#2 SN Observat	2	not seeing much sn in this one. tv image 0002.2013.1003 for sl
0086.COMP	10	10:51	04:08:02.4	+23:17:39	300	40	3.0	0 Calibration	2	
0087.snj0503	1800	10:54	05:03:35.1	+01:34:17	300	40	3.0	#2 SN Observat	2	
0088.COMP	10	11:25	05:03:35.1	+01:34:17	300	40	3.0	0 Calibration	2	
0089.NGC1700	300	11:27	04:56:56.3	-04:51:57	300	89	3.0	#57 Velocity S	2	
0090.COMP	10	11:32	04:56:56.3	-04:51:57	300	89	3.0	0 Calibration	2	
0091.Comet.2P.Encke	600	11:37	07:29:53.4	+43:31:24	300	89	3.0	#173 Small Sol	2	the tail as well?
0092.COMP	10	11:48	07:29:53.4	+43:31:24	300	89	3.0	0 Calibration	2	
0093.Comet.2P.Encke	600	11:49	07:29:53.4	+43:31:24	300	89	3.0	#173 Small Sol	2	
0094.Comet.2P.Encke	600	11:59	07:29:53.4	+43:31:24	300	89	3.0	#173 Small Sol	2	
0095.COMP	10	12:09	07:29:53.4	+43:31:24	300	89	3.0	0 Calibration	2	
0096.Hyades142	5	12:12	04:46:30.0	+15:28:21	300	89	3.0	#173 Small Sol	2	
0097.COMP	10	12:12	04:46:30.0	+15:28:21	300	89	3.0	0 Calibration	2	
0098.Hyades142	20	12:13	04:46:30.0	+15:28:21	300	89	3.0	#173 Small Sol	2	
0099.Hyades142	20	12:14	04:46:30.0	+15:28:21	300	89	3.0	#173 Small Sol	2	
0100.Hyades142	20	12:14	04:46:30.0	+15:28:21	300	89	3.0	#173 Small Sol	2	
0101.G191B2B	300	12:16	05:05:30.6	+52:49:52	300	89	3.0	#56 Spectropho	2	
0102.COMP	10	12:21	05:05:30.6	+52:49:52	300	89	3.0	0 Calibration	2	
0103.Hiltner600	90	12:23	06:45:13.4	+02:08:15	300	89	3.0	#56 Spectropho	2	
0104.COMP	10	12:25	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	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>Bin</i>	<i>Comments</i>
0105-0114.BIAS	0	12:29	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	4	
0115-0124.FLAT	4	12:31	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	4	
0125-0134.BIAS	0	12:33	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0135-0149.FLAT	7	12:38	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0006.DARK	900	00:48	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0007-0016.BIAS	0	01:06	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	4	
0017-0026.FLAT	4	01:08	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	4	
0028.BIAS	0	01:15	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	ccd crash, restarted
0029-0038.BIAS	0	01:17	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0039-0058.FLAT	7	01:23	06:45:13.4	+02:08:15	300	89	3.0	0 Calibration	2	
0059.HD192281	8	01:56	20:12:33.1	+40:16:05	300	89	3.0	#56 Spectropho	2	
0060.COMP	10	01:57	20:12:33.1	+40:16:05	300	89	3.0	0 Calibration	2	
0061.HD192281	8	01:58	20:12:33.1	+40:16:05	300	89	3.0	#56 Spectropho	2	
0062.HD192281	8	01:58	20:12:33.1	+40:16:05	300	89	3.0	#56 Spectropho	2	
0063.BDp404032	120	01:59	20:08:24.1	+41:15:04	300	89	3.0	#56 Spectropho	2	
0064.COMP	10	02:01	20:08:24.1	+41:15:04	300	89	3.0	0 Calibration	2	
0065.A01395.3	2400	02:06	16:09:31.6	+55:29:02	300	89	3.0	#216 Local Com	2	
0066.COMP	10	02:46	16:09:31.6	+55:29:02	300	89	3.0	0 Calibration	2	
0067.19482748+0931456	1200	02:50	19:48:27.5	+09:31:46	300	15	3.0	#141 2MASS Red	2	
0068.COMP	10	03:10	19:48:27.5	+09:31:46	300	15	3.0	0 Calibration	2	
0069.sn2013fn	1800	03:13	21:00:23.8	-14:29:52	300	15	3.0	#2 SN Observat	2	
0070.COMP	10	03:43	21:00:23.8	-14:29:52	300	15	3.0	0 Calibration	2	
0071.HPbcg075	2400	03:48	22:23:52.6	+17:16:21	300	90	3.0	#210 Brightest	2	
0072.COMP	10	04:28	22:23:52.6	+17:16:21	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0073.BDp284211	90	04:31	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0074.COMP	10	04:33	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0075.BDp284211	180	04:34	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	junk, no idea what happened
0076.BDp174708	90	04:38	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0077.COMP	10	04:39	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0078.BDp284211	150	04:41	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0079.COMP	10	04:44	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0080.HPbcg078	1898	04:48	22:35:29.1	+06:07:18	300	89	3.0	#210 Brightest	2	seeing not great
0081.COMP	10	05:20	22:35:29.1	+06:07:18	300	89	3.0	0 Calibration	2	
0082.HPbcg071	1800	05:23	22:23:31.6	-02:08:10	300	90	3.0	#210 Brightest	2	
0083.COMP	10	05:54	22:23:31.6	-02:08:10	300	90	3.0	0 Calibration	2	
0084.HPbcg087	1800	05:55	23:36:08.8	+05:14:39	300	90	3.0	#210 Brightest	2	
0085.COMP	10	06:26	23:36:08.8	+05:14:39	300	90	3.0	0 Calibration	2	
0086.Asteroid.69.Hesperia	300	06:28	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	
0087.COMP	10	06:33	00:14:05.7	+01:11:28	300	90	3.0	0 Calibration	2	
0088.Asteroid.69.Hesperia	300	06:34	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	
0089.Asteroid.69.Hesperia	300	06:39	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	
0090.COMP	10	06:44	00:14:05.7	+01:11:28	300	90	3.0	0 Calibration	2	
0091.HD1461	1	06:46	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0092.COMP	10	06:46	00:18:41.9	-08:03:11	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0093.HD1461	4	06:47	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0094.HD1461	4	06:47	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0095.HD1461	4	06:47	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0096.Asteroid.94.Aurora	450	06:49	00:17:25.9	+02:59:09	300	90	3.0	#173 Small Sol	2	
0097.COMP	10	06:57	00:17:25.9	+02:59:09	300	90	3.0	0 Calibration	2	
0098.Asteroid.94.Aurora	450	06:57	00:17:25.9	+02:59:09	300	90	3.0	#173 Small Sol	2	
0099.Asteroid.94.Aurora	450	07:05	00:17:25.9	+02:59:09	300	90	3.0	#173 Small Sol	2	
0100.COMP	10	07:13	00:17:25.9	+02:59:09	300	90	3.0	0 Calibration	2	
0101.M31	60	07:15	00:42:44.3	+41:16:09	300	90	3.0	#57 Velocity S	2	
0102.COMP	10	07:16	00:42:44.3	+41:16:09	300	90	3.0	0 Calibration	2	
0103.COMP	5	07:19	00:42:44.3	+41:16:09	300	90	3.0	0 Calibration	2	300 line, tiltpos 700, 3 sec, Spahr/Hergenrother red
0104-0118.FLAT	7	07:25	00:42:44.3	+41:16:09	300	90	3.0	0 Calibration	2	
0119.HD1461	4	07:27	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0120.COMP	10	07:27	00:18:41.9	-08:03:11	300	90	3.0	0 Calibration	2	
0121.HD1461	4	07:28	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0122.HD1461	4	07:28	00:18:41.9	-08:03:11	300	90	3.0	#173 Small Sol	2	
0123.Asteroid.69.Hesperia	300	07:31	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	
0124.COMP	10	07:36	00:14:05.7	+01:11:28	300	90	3.0	0 Calibration	2	
0125.Asteroid.69.Hesperia	300	07:37	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	
0126.Asteroid.69.Hesperia	300	07:42	00:14:05.7	+01:11:28	300	90	3.0	#173 Small Sol	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0127.COMP	10	07:47	00:14:05.7	+01:11:28	300	90	3.0	0 Calibration	2	
0128.Asteroid.94.Aurora	450	07:49	00:17:24.3	+02:59:04	300	90	3.0	#173 Small Sol	2	
0129.COMP	10	07:57	00:17:24.3	+02:59:04	300	90	3.0	0 Calibration	2	
0130.Asteroid.94.Aurora	450	07:58	00:17:24.3	+02:59:04	300	90	3.0	#173 Small Sol	2	
0131.Asteroid.94.Aurora	450	08:06	00:17:24.3	+02:59:04	300	90	3.0	#173 Small Sol	2	
0132.COMP	10	08:14	00:17:24.3	+02:59:04	300	90	3.0	0 Calibration	2	
0133.HD19445	10	08:15	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0134.COMP	10	08:16	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	
0135.HD19445	25	08:17	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0136.HD19445	25	08:17	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0137.HD19445	25	08:18	03:08:25.6	+26:19:51	300	90	3.0	#56 Spectropho	2	
0138.COMP	5	08:20	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	test
0139.COMP	5	08:21	03:08:25.6	+26:19:51	300	90	3.0	0 Calibration	2	standard setup
0140.HPbcg094	2400	08:27	23:50:30.5	+29:15:05	300	90	3.0	#210 Brightest	2	
0141.COMP	10	09:08	23:50:30.5	+29:15:05	300	90	3.0	0 Calibration	2	
0142.HPbcg131	2400	09:09	23:48:53.1	+29:21:24	300	90	3.0	#210 Brightest	2	
0143.COMP	10	09:50	23:48:53.1	+29:21:24	300	90	3.0	0 Calibration	2	
0144.back34	1200	09:54	02:06:41.3	+15:26:08	300	110	3.0	#216 Local Com	2	
0145.COMP	10	10:14	02:06:41.3	+15:26:08	300	110	3.0	0 Calibration	2	
0146.back12	900	10:16	02:06:50.4	+15:24:17	300	109	3.0	#216 Local Com	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0147.COMP	10	10:31	02:06:50.4	+15:24:17	300	109	3.0	0 Calibration	2	
0148.snj0503	1800	10:35	05:03:35.1	+01:34:17	300	40	3.0	#2 SN Observat	2	
0149.COMP	10	11:05	05:03:35.1	+01:34:17	300	40	3.0	0 Calibration	2	
0150.HPbcg012	1234	11:09	07:33:17.3	+31:28:11	300	86	3.0	#210 Brightest	2	
0151.COMP	10	11:30	07:33:17.3	+31:28:11	300	86	3.0	0 Calibration	2	
0152.HPbcg059	1800	11:32	07:30:58.1	+32:00:02	300	88	3.0	#210 Brightest	2	
0153.COMP	10	12:02	07:30:58.1	+32:00:02	300	88	3.0	0 Calibration	2	
0154.NGC1700	300	12:04	04:56:56.3	-04:51:57	300	90	3.0	#57 Velocity S	2	
0155.COMP	10	12:10	04:56:56.3	-04:51:57	300	90	3.0	0 Calibration	2	
0156.G191B2B	500	12:13	05:05:30.6	+52:49:52	300	110	3.0	#56 Spectropho	2	
0157.COMP	10	12:22	05:05:30.6	+52:49:52	300	110	3.0	0 Calibration	2	
0158.Hiltner600	150	12:24	06:45:13.4	+02:08:15	300	109	3.0	#56 Spectropho	2	
0159.COMP	10	12:27	06:45:13.4	+02:08:15	300	109	3.0	0 Calibration	2	
0160-0169.BIAS	0	12:31	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	4	
0170-0179.FLAT	4	12:33	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	4	
0180-0189.BIAS	0	12:35	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0190-0204.FLAT	7	12:40	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0205-0209.DARK	900	13:48	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0210-0214.DARK	900	15:04	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	00:09	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0006-0015.BIAS	0	00:53	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	4	
0016-0025.FLAT	4	00:55	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	4	
0026-0035.BIAS	0	00:57	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0036-0050.FLAT	7	01:02	06:45:13.4	+02:08:15	300	90	3.0	0 Calibration	2	
0051.HD192281	20	02:06	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	wind from NE, seeing horrific
0052.COMP	10	02:07	20:12:33.1	+40:16:05	300	90	3.0	0 Calibration	2	
0053.BDp404032	240	02:08	20:08:24.1	+41:15:04	300	91	3.0	#56 Spectropho	2	
0054.COMP	10	02:12	20:08:24.1	+41:15:04	300	91	3.0	0 Calibration	2	
0055.A01611.1	1800	02:16	15:31:06.2	+33:14:44	300	90	3.0	#216 Local Com	2	
0056.COMP	10	02:46	15:31:06.2	+33:14:44	300	90	3.0	0 Calibration	2	
0057.20330565+5403016	1200	02:50	20:33:05.7	+54:03:02	300	94	3.0	#141 2MASS Red	2	seeing much improved
0058.COMP	10	03:11	20:33:05.7	+54:03:02	300	94	3.0	0 Calibration	2	
0059.YYHer	10	03:13	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0060.YYHer	60	03:13	18:14:34.0	+20:59:19	300	89	3.0	#12 Symbiotic	2	
0061.COMP	10	03:15	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0062.V443Her	5	03:16	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0063.V443Her	45	03:16	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0064.V443Her	90	03:17	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0065.COMP	10	03:19	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.AS338	90	03:21	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0067.AS338	600	03:22	19:03:47.0	+16:26:17	300	90	3.0	#12 Symbiotic	2	
0068.COMP	10	03:33	19:03:47.0	+16:26:17	300	90	3.0	0 Calibration	2	
0069.AS360	60	03:35	19:45:49.0	+18:36:49	300	90	3.0	#12 Symbiotic	2	
0070.AS360	300	03:36	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0071.COMP	10	03:41	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0072.BFCyg	15	03:43	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0073.BFCyg	15	03:43	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0074.COMP	10	03:44	19:23:53.0	+29:40:27	300	89	3.0	0 Calibration	2	
0075.CHCyg	1	03:45	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0076.CHCyg	5	03:45	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0077.CHCyg	30	03:46	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0078.COMP	10	03:46	19:24:33.0	+50:14:30	300	89	3.0	0 Calibration	2	
0079.CICyg	4	03:48	19:50:12.0	+35:41:02	300	89	3.0	#12 Symbiotic	2	
0080.CICyg	15	03:48	19:50:12.0	+35:41:02	300	89	3.0	#12 Symbiotic	2	
0081.COMP	10	03:49	19:50:12.0	+35:41:02	300	89	3.0	0 Calibration	2	
0082.PUVul	1	03:50	20:21:13.0	+21:34:21	300	89	3.0	#12 Symbiotic	2	
0083.PUVul	10	03:50	20:21:13.0	+21:34:21	300	89	3.0	#12 Symbiotic	2	
0084.PUVul	60	03:51	20:21:13.0	+21:34:21	300	89	3.0	#12 Symbiotic	2	
0085.COMP	10	03:52	20:21:13.0	+21:34:21	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0086.sn2013fn	2400	03:56	21:00:23.8	-14:29:52	300	16	3.0	#2 SN Observat	2	
0087.COMP	10	04:37	21:00:23.8	-14:29:52	300	16	3.0	0 Calibration	2	
0088.BDp284211	150	04:40	21:51:11.0	+28:51:50	300	91	3.0	#56 Spectropho	2	
0089.COMP	10	04:43	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0090.BDp174708	90	04:44	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0091.COMP	10	04:46	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0092.HPbcg081	1200	04:48	22:50:24.2	+10:50:03	300	80	3.0	#210 Brightest	2	
0093.COMP	10	05:09	22:50:24.2	+10:50:03	300	80	3.0	0 Calibration	2	
0094.HPbcg126	2400	05:12	22:35:10.0	+05:20:37	300	21	3.0	#210 Brightest	2	
0095.COMP	10	05:53	22:35:10.0	+05:20:37	300	21	3.0	0 Calibration	2	
0096.HPbcg100	900	05:54	23:45:18.5	-03:58:59	300	21	3.0	#210 Brightest	2	redone, see 0112
0097.COMP	10	06:09	23:45:18.5	-03:58:59	300	20	3.0	0 Calibration	2	
0098.RAqr	1	06:13	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0099.RAqr	5	06:14	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0100.RAqr	10	06:14	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0101.COMP	10	06:14	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0102.ZAnd	1	06:17	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0103.ZAnd	5	06:17	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0104.ZAnd	30	06:18	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0105.COMP	10	06:18	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0106.EGAnd	1	06:20	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0107.EGAnd	5	06:20	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0108.EGAnd	10	06:20	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0109.COMP	10	06:21	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0110.M31	60	06:22	00:42:44.3	+41:16:09	300	90	3.0	#57 Velocity S	2	
0111.COMP	10	06:23	00:42:44.3	+41:16:09	300	90	3.0	0 Calibration	2	
0112.HPbcg100	1800	06:26	23:45:18.5	-03:58:59	300	90	3.0	#210 Brightest	2	
0113.COMP	10	06:56	23:45:18.5	-03:58:59	300	90	3.0	0 Calibration	2	
0114.HPbcg130	1200	06:58	23:44:19.0	-04:23:03	300	89	3.0	#210 Brightest	2	
0115.COMP	10	07:18	23:44:19.0	-04:23:03	300	89	3.0	0 Calibration	2	
0116.HPbcg089	1800	07:21	23:51:45.6	+06:22:17	300	80	3.0	#210 Brightest	2	
0117.COMP	10	07:52	23:51:45.6	+06:22:17	300	80	3.0	0 Calibration	2	
0118.HPbcg090	2400	07:54	23:49:57.4	+06:11:37	300	80	3.0	#210 Brightest	2	
0119.COMP	10	08:34	23:49:57.4	+06:11:37	300	81	3.0	0 Calibration	2	
0120.AXPer	4	08:38	01:36:23.0	+54:15:03	300	89	3.0	#12 Symbiotic	2	seeing pretty bad
0121.AXPer	30	08:38	01:36:23.0	+54:15:03	300	89	3.0	#12 Symbiotic	2	
0122.AXPer	90	08:39	01:36:23.0	+54:15:03	300	89	3.0	#12 Symbiotic	2	
0123.COMP	10	08:41	01:36:23.0	+54:15:03	300	89	3.0	0 Calibration	2	
0124.HPbcg092	1800	08:43	23:51:36.8	+29:27:11	300	89	3.0	#210 Brightest	2	
0125.COMP	10	09:14	23:51:36.8	+29:27:11	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0126.HPbcg132	1800	09:17	23:52:34.5	+29:26:25	300	90	3.0	#210 Brightest	2	
0127.COMP	10	09:47	23:52:34.5	+29:26:25	300	90	3.0	0 Calibration	2	
0128.GITau	240	10:35	04:33:34.0	+24:21:18	300	89	3.0	#12 Symbiotic	2	
0129.COMP	10	10:39	04:33:34.0	+24:21:18	300	89	3.0	0 Calibration	2	
0130.GKTau	240	10:40	04:33:34.5	+24:21:07	300	89	3.0	#12 Symbiotic	2	
0131.COMP	10	10:44	04:33:34.5	+24:21:07	300	89	3.0	0 Calibration	2	
0132.snj0503	2400	10:48	05:03:35.1	+01:34:17	300	39	3.0	#2 SN Observat	2	
0133.COMP	10	11:29	05:03:35.1	+01:34:17	300	39	3.0	0 Calibration	2	
0134.BGGem	300	11:31	06:03:31.0	+27:41:50	300	1	3.0	#12 Symbiotic	2	
0135.COMP	10	11:37	06:03:31.0	+27:41:50	300	1	3.0	0 Calibration	2	
0136.HPbcg116	900	11:41	07:33:20.3	+31:21:41	300	87	3.0	#210 Brightest	2	
0137.COMP	10	11:56	07:33:20.3	+31:21:41	300	87	3.0	0 Calibration	2	
0138.BXMon	15	12:00	07:25:23.0	-03:35:51	300	109	3.0	#12 Symbiotic	2	
0139.BXMon	180	12:01	07:25:23.0	-03:35:51	300	109	3.0	#12 Symbiotic	2	
0140.BXMon	180	12:04	07:25:23.0	-03:35:51	300	109	3.0	#12 Symbiotic	2	
0141.COMP	10	12:07	07:25:23.0	-03:35:51	300	109	3.0	0 Calibration	2	
0142.Hiltner600	240	12:09	06:45:13.4	+02:08:15	300	109	3.0	#56 Spectropho	2	
0143.COMP	10	12:13	06:45:13.4	+02:08:15	300	109	3.0	0 Calibration	2	
0144.G191B2B	500	12:16	05:05:30.6	+52:49:52	300	110	3.0	#56 Spectropho	2	
0145.COMP	10	12:24	05:05:30.6	+52:49:52	300	110	3.0	0 Calibration	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>Bin</i>	<i>Comments</i>
0146-0155.BIAS	0	12:29	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0156-0165.FLAT	4	12:31	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0166-0175.BIAS	0	12:33	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0176-0190.FLAT	7	12:38	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0191-0195.DARK	900	13:46	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0196-0200.DARK	900	15:02	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0005.DARK	900	00:13	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0006-0015.BIAS	0	00:44	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0016-0025.FLAT	4	00:46	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0026-0035.BIAS	0	00:48	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0036-0050.FLAT	7	00:52	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0051.HD192281	10	01:55	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	01:56	20:12:33.1	+40:16:05	300	90	3.0	0 Calibration	2	
0053.HD192281	15	01:56	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0054.HD192281	15	01:57	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0055.HD192281	15	01:57	20:12:33.1	+40:16:05	300	90	3.0	#56 Spectropho	2	
0056.BDp404032	240	01:59	20:08:24.1	+41:15:04	300	89	3.0	#56 Spectropho	2	
0057.COMP	10	02:03	20:08:24.1	+41:15:04	300	89	3.0	0 Calibration	2	
0058.AS270	60	02:08	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	seeing really nasty down here
0059.AS270	300	02:09	18:05:33.7	-20:20:38	300	90	3.0	#12 Symbiotic	2	
0060.COMP	10	02:14	18:05:33.7	-20:20:38	300	90	3.0	0 Calibration	2	
0061.Hen1591	120	02:16	18:07:32.0	-25:53:43	300	90	3.0	#12 Symbiotic	2	
0062.Hen1591	300	02:18	18:07:32.0	-25:53:43	300	90	3.0	#12 Symbiotic	2	
0063.COMP	10	02:24	18:07:32.0	-25:53:43	300	90	3.0	0 Calibration	2	
0064.AS281	60	02:25	18:10:44.0	-27:57:51	300	90	3.0	#12 Symbiotic	2	
0065.AS281	360	02:26	18:10:44.0	-27:57:51	300	91	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0066.COMP	10	02:33	18:10:44.0	-27:57:51	300	91	3.0	0 Calibration	2	
0067.Hen1674	120	02:37	18:20:19.1	-26:22:46	300	0	3.0	#12 Symbiotic	2	
0068.Hen1674	600	02:39	18:20:19.1	-26:22:46	300	0	3.0	#12 Symbiotic	2	
0069.COMP	10	02:49	18:20:19.1	-26:22:46	300	0	3.0	0 Calibration	2	
0070.AS327	30	02:54	18:53:17.0	-24:22:59	300	110	3.0	#12 Symbiotic	2	
0071.AS327	300	02:54	18:53:17.0	-24:22:59	300	110	3.0	#12 Symbiotic	2	
0072.COMP	10	03:00	18:53:17.0	-24:22:59	300	110	3.0	0 Calibration	2	
0073.AS316	30	03:01	18:42:33.0	-21:17:47	300	110	3.0	#12 Symbiotic	2	
0074.AS316	300	03:02	18:42:33.0	-21:17:47	300	111	3.0	#12 Symbiotic	2	
0075.COMP	10	03:07	18:42:33.0	-21:17:47	300	111	3.0	0 Calibration	2	
0076.V919Sgr	15	03:11	19:03:45.0	-16:59:56	300	41	3.0	#12 Symbiotic	2	
0077.V919Sgr	30	03:12	19:03:45.0	-16:59:56	300	41	3.0	#12 Symbiotic	2	
0078.COMP	10	03:13	19:03:45.0	-16:59:56	300	41	3.0	0 Calibration	2	
0079.RSOph	10	03:16	17:50:13.0	-06:42:30	300	80	3.0	#12 Symbiotic	2	
0080.RSOph	60	03:16	17:50:13.0	-06:42:30	300	80	3.0	#12 Symbiotic	2	
0081.RSOph	150	03:17	17:50:13.0	-06:42:30	300	79	3.0	#12 Symbiotic	2	
0082.COMP	10	03:20	17:50:13.0	-06:42:30	300	79	3.0	0 Calibration	2	
0083.DracoC1	1200	03:26	17:19:58.0	+57:50:06	300	80	3.0	#12 Symbiotic	2	winds from E, seeing really nasty
0084.COMP	10	03:47	17:19:58.0	+57:50:06	300	80	3.0	0 Calibration	2	
0085.sn2013fn	2700	03:54	21:00:23.8	-14:29:52	300	16	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0086.COMP	10	04:40	21:00:23.8	-14:29:52	300	16	3.0	0 Calibration	2	
0087.BDp284211	240	04:43	21:51:11.0	+28:51:50	300	86	3.0	#56 Spectropho	2	
0088.COMP	10	04:48	21:51:11.0	+28:51:50	300	86	3.0	0 Calibration	2	
0089.BDp174708	90	04:50	22:11:31.4	+18:05:34	300	86	3.0	#56 Spectropho	2	
0090.COMP	10	04:52	22:11:31.4	+18:05:34	300	86	3.0	0 Calibration	2	
0091.HPbcg082	1800	04:54	22:50:36.9	+10:56:50	300	85	3.0	#210 Brightest	2	
0092.COMP	10	05:25	22:50:36.9	+10:56:50	300	85	3.0	0 Calibration	2	
0093.HPbcg083	2400	05:30	22:50:30.0	+11:19:20	300	84	3.0	#210 Brightest	2	
0094.COMP	10	06:10	22:50:30.0	+11:19:20	300	84	3.0	0 Calibration	2	
0095.HPbcg080	1800	06:13	22:50:24.1	+10:56:05	300	86	3.0	#210 Brightest	2	
0096.COMP	10	06:44	22:50:24.1	+10:56:05	300	86	3.0	0 Calibration	2	
0097.M31	120	06:46	00:42:44.3	+41:16:09	300	85	3.0	#57 Velocity S	2	
0098.COMP	10	06:48	00:42:44.3	+41:16:09	300	85	3.0	0 Calibration	2	
0099.HPbcg084	2400	06:56	22:49:25.2	+10:57:00	300	110	3.0	#210 Brightest	2	
0100.COMP	10	07:36	22:49:25.2	+10:57:00	300	110	3.0	0 Calibration	2	
0101.HPbcg129	1200	07:41	23:35:16.6	+05:12:09	300	10	3.0	#210 Brightest	2	seeing much improved
0102.COMP	10	08:01	23:35:16.6	+05:12:09	300	10	3.0	0 Calibration	2	
0103.HPbcg128	2400	08:06	23:34:42.1	+06:08:47	300	10	3.0	#210 Brightest	2	
0104.COMP	10	08:47	23:34:42.1	+06:08:47	300	10	3.0	0 Calibration	2	
0105.HPbcg088	2400	08:54	23:49:53.5	+06:24:36	300	110	3.0	#210 Brightest	2	seeing great

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0106.COMP	10	09:34	23:49:53.5	+06:24:36	300	110	3.0	0 Calibration	2	
0107.03244836+1951555	1200	09:37	03:24:48.4	+19:51:56	300	110	3.0	#141 2MASS Red	2	
0108.COMP	10	09:57	03:24:48.4	+19:51:56	300	110	3.0	0 Calibration	2	
0109.03375371+1651273	720	09:59	03:37:53.7	+16:51:27	300	110	3.0	#141 2MASS Red	2	
0110.COMP	10	10:11	03:37:53.7	+16:51:27	300	110	3.0	0 Calibration	2	
0111.03381510+2300164	720	10:12	03:38:15.1	+23:00:16	300	110	3.0	#141 2MASS Red	2	
0112.COMP	10	10:25	03:38:15.1	+23:00:16	300	110	3.0	0 Calibration	2	
0113.03391802+1424548	720	10:26	03:39:18.0	+14:24:55	300	110	3.0	#141 2MASS Red	2	
0114.COMP	10	10:39	03:39:18.0	+14:24:55	300	110	3.0	0 Calibration	2	
0115.03425727+3815274	1200	10:40	03:42:57.3	+38:15:27	300	90	3.0	#141 2MASS Red	2	
0116.COMP	10	11:01	03:42:57.3	+38:15:27	300	90	3.0	0 Calibration	2	
0117.04512737+1204529	1800	11:03	04:51:27.4	+12:04:53	300	91	3.0	#141 2MASS Red	2	
0118.COMP	10	11:33	04:51:27.4	+12:04:53	300	91	3.0	0 Calibration	2	
0119.snj0503	1800	11:37	05:03:35.1	+01:34:17	300	40	3.0	#2 SN Observat	2	
0120.COMP	10	12:07	05:03:35.1	+01:34:17	300	40	3.0	0 Calibration	2	
0121.Hiltner600	150	12:10	06:45:13.4	+02:08:15	300	109	3.0	#56 Spectropho	2	
0122.COMP	10	12:13	06:45:13.4	+02:08:15	300	109	3.0	0 Calibration	2	
0123.G191B2B	500	12:25	05:05:30.6	+52:49:52	300	110	3.0	#56 Spectropho	2	
0124.COMP	10	12:34	05:05:30.6	+52:49:52	300	110	3.0	0 Calibration	2	
0125-0134.BIAS	0	12:38	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	



UT Date 2013-10-07 Observers Irwin

Coll. Focus 1350 Grating/Grism 300

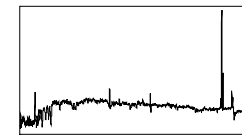
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0135-0144.FLAT	4	12:40	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	
0145-0154.BIAS	0	12:42	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0155-0169.FLAT	7	12:47	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0170-0174.DARK	900	13:57	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	2	
0175-0179.DARK	900	15:14	05:05:30.6	+52:49:52	300	90	3.0	0 Calibration	4	

UT Date 2013-10-29 Observers IrwinColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	00:41	13:11:16.3	+31:34:57	300	90	3.0	0 Calibration	2	
0011-0025.FLAT	7	00:47	13:11:16.3	+31:34:57	300	90	3.0	0 Calibration	2	
0026.COMP	10	00:57	13:11:16.3	+31:34:57	300	90	3.0	0 Calibration	2	
0027-0031.DARK	900	02:34	13:11:16.3	+31:34:57	300	90	3.0	0 Calibration	2	
0032.BDp284211	120	03:32	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0033.BDp284211	120	03:35	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0034.COMP	5	03:37	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0035.BDp174708	120	03:39	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0036.BDp174708	120	03:41	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0037.COMP	10	03:44	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0038.sn2013dy	1103	03:46	22:18:17.6	+40:34:10	300	90	3.0	#2 SN Observat	2	
0039.COMP	10	04:05	22:18:17.6	+40:34:10	300	90	3.0	0 Calibration	2	
0040.EGAnd	2	08:23	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0041.EGAnd	10	08:24	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0042.EGAnd	5	08:25	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0043.EGAnd	20	08:25	00:44:37.0	+40:40:47	300	90	3.0	#12 Symbiotic	2	
0044.COMP	10	08:26	00:44:37.0	+40:40:47	300	90	3.0	0 Calibration	2	
0045.AXPer	10	08:28	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0046.AXPer	30	08:29	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0047.AXPer	60	08:30	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	

UT Date 2013-10-29 Observers IrwinColl. Focus 1350 Grating/Grism 300

<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>
0048.AXPer	90	08:32	01:36:23.0	+54:15:03	300	90	3.0	#12 Symbiotic	2	
0049.COMP	5	08:34	01:36:23.0	+54:15:03	300	90	3.0	0 Calibration	2	
0050-0059.BIAS	0	10:02	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0060-0074.FLAT	7	10:08	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	

UT Date 2013-10-30 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001.BDp284211	150	02:06	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0002.BDp284211	150	02:11	21:51:11.0	+28:51:50	300	90	3.0	#56 Spectropho	2	
0003.COMP	10	02:14	21:51:11.0	+28:51:50	300	90	3.0	0 Calibration	2	
0004.BDp174708	90	02:19	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0005.BDp174708	90	02:21	22:11:31.4	+18:05:34	300	90	3.0	#56 Spectropho	2	
0006.COMP	10	02:23	22:11:31.4	+18:05:34	300	90	3.0	0 Calibration	2	
0007.ZAnd	1	02:39	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0008.ZAnd	5	02:40	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0009.ZAnd	30	02:40	23:33:40.0	+48:49:06	300	90	3.0	#12 Symbiotic	2	
0010.COMP	10	02:41	23:33:40.0	+48:49:06	300	90	3.0	0 Calibration	2	
0011.PUVu1	1	02:43	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0012.PUVu1	10	02:44	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0013.PUVu1	60	02:44	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0014.COMP	10	02:45	20:21:13.0	+21:34:21	300	90	3.0	0 Calibration	2	
0015.CICyg	4	02:48	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0016.CICyg	15	02:48	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0017.COMP	10	02:49	19:50:12.0	+35:41:02	300	90	3.0	0 Calibration	2	
0018.22301599+5156275	1200	02:56	22:30:16.0	+51:56:27	300	90	3.0	#141 2MASS Red	2	
0019.COMP	10	03:17	22:30:16.0	+51:56:27	300	89	3.0	0 Calibration	2	
0020.22301046+5159085	900	03:21	22:30:10.5	+51:59:09	300	89	3.0	#141 2MASS Red	2	



UT Date 2013-10-30 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0021.COMP	10	03:37	22:30:10.5	+51:59:09	300	88	3.0	0 Calibration	2	
0022.22314656+5017245	900	03:46	22:31:46.6	+50:17:25	300	88	3.0	#141 2MASS Red	2	
0023.COMP	10	04:02	22:31:46.6	+50:17:25	300	89	3.0	0 Calibration	2	
0024.22331051+5148557	900	04:07	22:33:10.5	+51:48:56	300	89	3.0	#141 2MASS Red	2	
0025.COMP	10	04:23	22:33:10.5	+51:48:56	300	89	3.0	0 Calibration	2	
0026.22342072+5121446	900	04:25	22:34:20.7	+51:21:45	300	89	3.0	#141 2MASS Red	2	
0027.COMP	10	04:42	22:34:20.7	+51:21:45	300	88	3.0	0 Calibration	2	
0028.22343357+5122187	300	04:47	22:34:33.6	+51:22:19	300	45	3.0	#141 2MASS Red	2	
0029.22343357+5122187	600	04:54	22:34:33.6	+51:22:19	300	45	3.0	#141 2MASS Red	2	
0030.COMP	10	05:05	22:34:33.6	+51:22:19	300	45	3.0	0 Calibration	2	
0031.psn2215	1800	05:14	22:15:28.5	+15:34:04	300	89	3.0	#2 SN Observat	2	
0032.COMP	10	05:50	22:15:28.5	+15:34:04	300	90	3.0	0 Calibration	2	
0033.psn2215	1800	05:51	22:15:28.5	+15:34:04	300	90	3.0	#2 SN Observat	2	
0034.COMP	10	06:21	22:15:28.5	+15:34:04	300	90	3.0	0 Calibration	2	
0035.back02	900	06:28	01:18:02.2	+01:23:09	300	90	3.0	#216 Local Com	2	
0036.COMP	10	06:44	01:18:02.2	+01:23:09	300	90	3.0	0 Calibration	2	
0037.back03	1200	06:46	01:18:33.7	+01:26:25	300	90	3.0	#216 Local Com	2	
0038.COMP	10	07:08	01:18:33.7	+01:26:25	300	90	3.0	0 Calibration	2	
0039.nback23	1800	07:13	03:54:29.0	-00:31:09	300	89	3.0	#216 Local Com	2	
0040.COMP	10	07:44	03:54:29.0	-00:31:09	300	90	3.0	0 Calibration	2	

UT Date 2013-10-30 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

<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>
0041.nback06	1800	07:50	03:55:57.9	-00:10:05	300	90	3.0	#216 Local Com	2	
0042.COMP	10	08:23	03:55:57.9	-00:10:05	300	90	3.0	0 Calibration	2	
0043.nback11	1800	08:26	03:56:22.6	-01:02:05	300	90	3.0	#216 Local Com	2	
0044.COMP	10	08:57	03:56:22.6	-01:02:05	300	90	3.0	0 Calibration	2	
0045.GITau	240	09:04	04:33:34.0	+24:21:18	300	90	3.0	#12 Symbiotic	2	
0046.COMP	10	09:08	04:33:34.0	+24:21:18	300	90	3.0	0 Calibration	2	
0047.GKTau	240	09:11	04:33:34.5	+24:21:07	300	90	3.0	#12 Symbiotic	2	
0048.COMP	10	09:16	04:33:34.5	+24:21:07	300	90	3.0	0 Calibration	2	
0049-0058.BIAS	0	10:50	05:03:35.1	+01:34:17	300	90	3.0	0 Calibration	4	
0059-0068.FLAT	4	10:52	05:03:35.1	+01:34:17	300	90	3.0	0 Calibration	4	
0069-0078.BIAS	0	10:54	05:03:35.1	+01:34:17	300	90	3.0	0 Calibration	2	
0079-0093.FLAT	7	10:59	05:03:35.1	+01:34:17	300	90	3.0	0 Calibration	2	

UT Date 2013-10-31 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0002-0011.BIAS	0	23:15	16:07:53.5	+31:32:31	300	89	3.0	0 Calibration	4	
0012-0021.FLAT	4	23:17	16:07:53.5	+31:32:31	300	89	3.0	0 Calibration	4	
0022-0031.BIAS	0	23:19	16:07:53.5	+31:32:31	300	89	3.0	0 Calibration	2	
0032-0046.FLAT	7	23:23	16:07:53.5	+31:32:31	300	89	3.0	0 Calibration	2	
0047.BDp284211	150	01:29	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0048.BDp284211	150	01:32	21:51:11.0	+28:51:50	300	89	3.0	#56 Spectropho	2	
0049.COMP	10	01:35	21:51:11.0	+28:51:50	300	89	3.0	0 Calibration	2	
0050.BDp174708	90	01:37	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0051.BDp174708	90	01:39	22:11:31.4	+18:05:34	300	89	3.0	#56 Spectropho	2	
0052.COMP	10	01:41	22:11:31.4	+18:05:34	300	89	3.0	0 Calibration	2	
0053.AS338	90	01:43	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0054.AS338	600	01:45	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0055.COMP	10	01:56	19:03:47.0	+16:26:17	300	89	3.0	0 Calibration	2	
0056.BFCyg	15	01:57	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0057.BFCyg	15	01:58	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0058.COMP	10	01:58	19:23:53.0	+29:40:27	300	89	3.0	0 Calibration	2	
0059.CHCyg	1	02:00	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0060.CHCyg	5	02:01	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0061.CHCyg	30	02:01	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0062.COMP	10	02:02	19:24:33.0	+50:14:30	300	89	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0063.AS360	60	02:04	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0064.AS360	300	02:05	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0065.COMP	10	02:10	19:45:49.0	+18:36:49	300	89	3.0	0 Calibration	2	
0066.19274874+3725333	600	02:14	19:27:48.7	+37:25:33	300	89	3.0	#141 2MASS Red	2	
0067.COMP	10	02:27	19:27:48.7	+37:25:33	300	89	3.0	0 Calibration	2	
0068.19453035+3759578	600	02:29	19:45:30.4	+37:59:58	300	89	3.0	#141 2MASS Red	2	
0069.COMP	10	02:39	19:45:30.4	+37:59:58	300	90	3.0	0 Calibration	2	
0070.19475678+4237421	600	02:44	19:47:56.8	+42:37:42	300	110	3.0	#141 2MASS Red	2	
0071.COMP	10	02:55	19:47:56.8	+42:37:42	300	109	3.0	0 Calibration	2	
0072.19543168+4125031	600	02:58	19:54:31.7	+41:25:03	300	91	3.0	#141 2MASS Red	2	
0073.COMP	10	03:09	19:54:31.7	+41:25:03	300	91	3.0	0 Calibration	2	
0074.20265826+5218323	600	03:11	20:26:58.3	+52:18:32	300	91	3.0	#141 2MASS Red	2	
0075.COMP	10	03:25	20:26:58.3	+52:18:32	300	91	3.0	0 Calibration	2	
0076.20395340+5554535	900	03:30	20:39:53.4	+55:54:53	300	91	3.0	#141 2MASS Red	2	
0077.COMP	10	03:47	20:39:53.4	+55:54:53	300	90	3.0	0 Calibration	2	
0078.22320813+6656092	1200	03:52	22:32:08.1	+66:56:09	300	90	3.0	#141 2MASS Red	2	
0079.COMP	10	04:13	22:32:08.1	+66:56:09	300	90	3.0	0 Calibration	2	
0080.22342417+5020396	600	04:17	22:34:24.2	+50:20:40	300	90	3.0	#141 2MASS Red	2	
0081.COMP	10	04:27	22:34:24.2	+50:20:40	300	87	3.0	0 Calibration	2	
0082.psn2113	1800	04:30	21:13:44.8	+13:34:33	300	87	3.0	#2 SN Observat	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0083.COMP	10	05:02	21:13:44.8	+13:34:33	300	90	3.0	0 Calibration	2	
0084.nback12	900	05:05	23:47:37.2	+14:28:20	300	90	3.0	#216 Local Com	2	
0085.COMP	10	05:21	23:47:37.2	+14:28:20	300	91	3.0	0 Calibration	2	
0086.A00193.1	1200	05:22	23:48:04.4	+14:42:56	300	91	3.0	#216 Local Com	2	
0087.COMP	10	05:43	23:48:04.4	+14:42:56	300	90	3.0	0 Calibration	2	
0088.nback04	1200	05:44	00:47:01.4	+15:29:40	300	90	3.0	#216 Local Com	2	
0089.COMP	10	06:05	00:47:01.4	+15:29:40	300	90	3.0	0 Calibration	2	
0090.nback10	1200	06:06	00:47:10.1	+16:22:22	300	90	3.0	#216 Local Com	2	
0091.COMP	10	06:28	00:47:10.1	+16:22:22	300	90	3.0	0 Calibration	2	
0092.nback21	1200	06:30	00:50:26.5	+15:35:44	300	90	3.0	#216 Local Com	2	
0093.COMP	10	06:51	00:50:26.5	+15:35:44	300	90	3.0	0 Calibration	2	
0094.01450074+6912398	1800	07:03	01:45:00.7	+69:12:40	300	90	3.0	#141 2MASS Red	2	
0095.COMP	10	07:35	01:45:00.7	+69:12:40	300	90	3.0	0 Calibration	2	
0096.02154551+7042002	1800	07:38	02:15:45.5	+70:42:00	300	90	3.0	#141 2MASS Red	2	
0097.COMP	10	08:10	02:15:45.5	+70:42:00	300	89	3.0	0 Calibration	2	
0098.03290549+3247443	600	08:14	03:29:05.5	+32:47:44	300	89	3.0	#141 2MASS Red	2	
0099.COMP	10	08:26	03:29:05.5	+32:47:44	300	87	3.0	0 Calibration	2	
0100.03355726+4221249	600	08:28	03:35:57.3	+42:21:25	300	87	3.0	#141 2MASS Red	2	
0101.COMP	10	08:39	03:35:57.3	+42:21:25	300	89	3.0	0 Calibration	2	
0102.03360720+3239475	600	08:41	03:36:07.2	+32:39:47	300	89	3.0	#141 2MASS Red	2	

UT Date 2013-10-31 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0103.03360720+3239475	900	08:52	03:36:07.2	+32:39:47	300	90	3.0	#141 2MASS Red	2	
0104.COMP	10	09:07	03:36:07.2	+32:39:47	300	90	3.0	0 Calibration	2	
0105.03440869+4013206	900	09:09	03:44:08.7	+40:13:21	300	90	3.0	#141 2MASS Red	2	
0105.03440869+4013206q.ms	900	09:09	03:44:08.7	+40:13:21	300	90	3.0	#141 2MASS Red	1	
0106.COMP	10	09:25	03:44:08.7	+40:13:21	300	90	3.0	0 Calibration	2	
0107.snj0503	1800	09:30	05:03:35.1	+01:34:17	300	90	3.0	#2 SN Observat	2	
0107.snj0503q.ms	1800	09:30	05:03:35.1	+01:34:17	300	90	3.0	#2 SN Observat	1	
0108.COMP	10	10:03	05:03:35.1	+01:34:17	300	89	3.0	0 Calibration	2	
0109.04305047+2326182	900	10:09	04:30:50.5	+23:26:18	300	89	3.0	#141 2MASS Red	2	
0109.04305047+2326182q.ms	900	10:09	04:30:50.5	+23:26:18	300	89	3.0	#141 2MASS Red	1	
0110.04305047+2326182	900	10:25	04:30:50.5	+23:26:18	300	89	3.0	#141 2MASS Red	2	
0111.COMP	10	10:41	04:30:50.5	+23:26:18	300	90	3.0	0 Calibration	2	
0112.04342128+3020432	900	10:42	04:34:21.3	+30:20:43	300	90	3.0	#141 2MASS Red	2	
0112.04342128+3020432q.ms	900	10:42	04:34:21.3	+30:20:43	300	90	3.0	#141 2MASS Red	1	
0113.COMP	10	10:59	04:34:21.3	+30:20:43	300	90	3.0	0 Calibration	2	
0114.HPbcg110	1200	11:03	07:26:59.6	+30:58:21	300	109	3.0	#210 Brightest	2	
0114.HPbcg110q.ms	1200	11:03	07:26:59.6	+30:58:21	300	109	3.0	#210 Brightest	1	
0115.COMP	10	11:24	07:26:59.6	+30:58:21	300	110	3.0	0 Calibration	2	
0116.HPbcg111	1200	11:27	07:27:52.5	+31:16:05	300	90	3.0	#210 Brightest	2	
0116.HPbcg111q.ms	1200	11:27	07:27:52.5	+31:16:05	300	90	3.0	#210 Brightest	1	

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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>
0117.COMP	10	11:48	07:27:52.5	+31:16:05	300	91	3.0	0 Calibration	2	
0118.HPbcg112	1200	11:49	07:25:46.5	+31:13:38	300	91	3.0	#210 Brightest	2	
0118.HPbcg112q.ms	1200	11:49	07:25:46.5	+31:13:38	300	91	3.0	#210 Brightest	1	
0119.COMP	10	12:11	07:25:46.5	+31:13:38	300	91	3.0	0 Calibration	2	
0120.SS129	300	12:13	07:32:45.0	-26:49:16	300	91	3.0	#12 Symbiotic	2	
0120.SS129q.ms	300	12:13	07:32:45.0	-26:49:16	300	91	3.0	#12 Symbiotic	1	
0121.SS129	300	12:19	07:32:45.0	-26:49:16	300	91	3.0	#12 Symbiotic	2	
0122.COMP	10	12:24	07:32:45.0	-26:49:16	300	91	3.0	0 Calibration	2	
comp300+600.ms	10	05:47	10:39:36.9	+43:06:11	300	90	3.0	#56 Spectropho	1	

UT Date 2013-11-01 Observers Erdogdu/MacriColl. Focus 1350 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	00:34	16:09:34.7	+31:32:29	300	88	3.0	0 Calibration	4	
0011-0020.FLAT	4	00:36	16:09:34.7	+31:32:29	300	88	3.0	0 Calibration	4	
0021-0030.BIAS	0	00:38	16:09:34.7	+31:32:29	300	88	3.0	0 Calibration	2	
0031-0045.FLAT	7	00:43	16:09:34.7	+31:32:29	300	88	3.0	0 Calibration	2	
0046.BDp284211	150	01:35	21:51:11.0	+28:51:50	300	88	3.0	#56 Spectropho	2	
0047.BDp284211	150	01:38	21:51:11.0	+28:51:50	300	88	3.0	#56 Spectropho	2	
0048.COMP	10	01:40	21:51:11.0	+28:51:50	300	88	3.0	0 Calibration	2	
0049.BDp174708	90	01:42	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0050.BDp174708	90	01:44	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0051.BDp174708	90	01:46	22:11:31.4	+18:05:34	300	88	3.0	#56 Spectropho	2	
0052.COMP	10	01:47	22:11:31.4	+18:05:34	300	88	3.0	0 Calibration	2	
0053.DracoC1	1200	01:55	17:19:58.0	+57:50:06	300	88	3.0	#12 Symbiotic	2	
0054.COMP	10	02:16	17:19:58.0	+57:50:06	300	90	3.0	0 Calibration	2	
0055.YYHer	10	02:18	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0056.YYHer	60	02:19	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0057.COMP	10	02:20	18:14:34.0	+20:59:19	300	90	3.0	0 Calibration	2	
0058.AS296	30	02:22	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0059.AS296	120	02:23	18:15:07.0	-00:18:52	300	90	3.0	#12 Symbiotic	2	
0060.COMP	10	02:26	18:15:07.0	-00:18:52	300	90	3.0	0 Calibration	2	
0061.V443Her	5	02:31	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0062.V443Her	45	02:31	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0063.V443Her	90	02:32	18:22:07.0	+23:27:20	300	90	3.0	#12 Symbiotic	2	
0064.COMP	10	02:34	18:22:07.0	+23:27:20	300	90	3.0	0 Calibration	2	
0065.RAqr	1	02:36	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0066.RAqr	5	02:36	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0067.RAqr	10	02:37	23:43:49.0	-15:17:05	300	90	3.0	#12 Symbiotic	2	
0068.COMP	10	02:37	23:43:49.0	-15:17:05	300	90	3.0	0 Calibration	2	
0069.18444541+0923180	1800	02:52	18:44:45.4	+09:23:18	300	90	3.0	#141 2MASS Red	2	
0070.COMP	10	03:23	18:44:45.4	+09:23:18	300	90	3.0	0 Calibration	2	
0071.19051339+2205512	1800	03:32	19:05:13.4	+22:05:51	300	90	3.0	#141 2MASS Red	2	
0072.COMP	10	04:04	19:05:13.4	+22:05:51	300	90	3.0	0 Calibration	2	
0073.19475678+4237421	1200	04:08	19:47:56.8	+42:37:42	300	110	3.0	#141 2MASS Red	2	
0074.COMP	10	04:29	19:47:56.8	+42:37:42	300	110	3.0	0 Calibration	2	
0075.20404826+3009556	600	04:33	20:40:48.3	+30:09:56	300	90	3.0	#141 2MASS Red	2	
0076.COMP	10	04:44	20:40:48.3	+30:09:56	300	91	3.0	0 Calibration	2	
0077.20410405+3000246	900	04:46	20:41:04.0	+30:00:25	300	91	3.0	#141 2MASS Red	2	
0078.COMP	10	05:03	20:41:04.0	+30:00:25	300	91	3.0	0 Calibration	2	
0079.20411683+3006217	900	05:05	20:41:16.8	+30:06:22	300	91	3.0	#141 2MASS Red	2	
0080.COMP	10	05:20	20:41:16.8	+30:06:22	300	90	3.0	0 Calibration	2	
0081.20443218+3055103	1200	05:22	20:44:32.2	+30:55:10	300	90	3.0	#141 2MASS Red	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0082.COMP	10	05:43	20:44:32.2	+30:55:10	300	91	3.0	0 Calibration	2	
0083.20462344+3241454	1200	05:46	20:46:23.4	+32:41:45	300	91	3.0	#141 2MASS Red	2	
0084.COMP	10	06:07	20:46:23.4	+32:41:45	300	90	3.0	0 Calibration	2	
0085.21185217+6347498	1200	06:12	21:18:52.2	+63:47:50	300	90	3.0	#141 2MASS Red	2	
0086.COMP	10	06:33	21:18:52.2	+63:47:50	300	91	3.0	0 Calibration	2	
0087.21375273+6341415	1200	06:35	21:37:52.7	+63:41:41	300	91	3.0	#141 2MASS Red	2	
0088.21375273+6341415	10	06:56	21:37:52.7	+63:41:41	300	90	3.0	#141 2MASS Red	2	
0089.21504406+4159299	300	06:59	21:50:44.1	+41:59:30	300	91	3.0	#141 2MASS Red	2	
0090.21510815+4434559	900	07:07	21:51:08.2	+44:34:56	300	91	3.0	#141 2MASS Red	2	
0091.COMP	10	07:23	21:51:08.2	+44:34:56	300	91	3.0	0 Calibration	2	
0092.22345895+5206157	900	07:27	22:34:58.9	+52:06:16	300	91	3.0	#141 2MASS Red	2	
0093.COMP	10	07:43	22:34:58.9	+52:06:16	300	91	3.0	0 Calibration	2	
0094.22361380+5205024	900	07:46	22:36:13.8	+52:05:02	300	91	3.0	#141 2MASS Red	2	
0095.COMP	10	08:02	22:36:13.8	+52:05:02	300	90	3.0	0 Calibration	2	
0096.22411784+5236495	900	08:07	22:41:17.8	+52:36:50	300	46	3.0	#141 2MASS Red	2	
0097.COMP	10	08:25	22:41:17.8	+52:36:50	300	46	3.0	0 Calibration	2	
0098.A00804.2	1200	08:30	03:55:48.8	-05:16:46	300	89	3.0	#216 Local Com	2	
0099.COMP	10	08:50	03:55:48.8	-05:16:46	300	89	3.0	0 Calibration	2	
0100.nback17	1200	09:02	03:56:42.2	+00:09:55	300	89	3.0	#216 Local Com	2	
0101.COMP	10	09:22	03:56:42.2	+00:09:55	300	90	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0102.A02276.1	1200	09:38	03:57:10.6	-00:41:26	300	90	3.0	#216 Local Com	2	
0103.COMP	10	09:59	03:57:10.6	-00:41:26	300	90	3.0	0 Calibration	2	
0104.nback16	1200	10:07	03:57:59.4	-00:22:35	300	90	3.0	#216 Local Com	2	
0105.COMP	10	10:28	03:57:59.4	-00:22:35	300	90	3.0	0 Calibration	2	
0106.snj0503	1800	10:34	05:03:35.1	+01:34:17	300	90	3.0	#2 SN Observat	2	
0107.COMP	10	11:05	05:03:35.1	+01:34:17	300	89	3.0	0 Calibration	2	
0108.HPbcg113	1200	11:12	07:27:22.3	+31:22:18	300	86	3.0	#210 Brightest	2	
0109.COMP	10	11:34	07:27:22.3	+31:22:18	300	86	3.0	0 Calibration	2	
0110.HPbcg114	600	11:35	07:26:59.1	+31:26:57	300	86	3.0	#210 Brightest	2	
0111.COMP	10	11:46	07:26:59.1	+31:26:57	300	88	3.0	0 Calibration	2	
0112.HPbcg115	900	11:48	07:33:14.8	+31:34:47	300	88	3.0	#210 Brightest	2	
0113.COMP	10	12:03	07:33:14.8	+31:34:47	300	89	3.0	0 Calibration	2	
0114.HPbcg117	1200	12:06	07:34:19.0	+31:20:15	300	89	3.0	#210 Brightest	2	
0115.COMP	10	12:26	07:34:19.0	+31:20:15	300	89	3.0	0 Calibration	2	