

UT Date 2019-07-03 Observers M CalkinsColl. Focus 1290 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.BIAS	0	03:37	08:40:29.3	+31:30:26	300	83	3.0	0 Calibration	4	
0011-0030.FLAT	7	04:06	08:40:29.3	+31:30:26	300	83	3.0	0 Calibration	2	
0031-0040.BIAS	0	04:08	08:40:29.3	+31:30:26	300	83	3.0	0 Calibration	2	
0041.BDp262606	90	04:32	14:49:02.4	+25:42:09	300	83	3.0	#56 Spectropho	2	
0042.COMP	10	04:34	14:49:02.4	+25:42:09	300	83	3.0	0 Calibration	2	
0043.BDp332642	120	04:36	15:51:59.9	+32:56:54	300	83	3.0	#56 Spectropho	2	
0044.COMP	10	04:38	15:51:59.9	+32:56:54	300	83	3.0	0 Calibration	2	
0045.JS044731	1800	04:41	14:16:03.7	+62:55:08	300	83	3.0	232 Missing SD	2	
0046.COMP	10	05:15	14:16:03.7	+62:55:08	300	83	3.0	0 Calibration	2	
0047.JS044709	1200	05:18	14:16:35.9	+63:00:40	300	83	3.0	232 Missing SD	2	
0048.COMP	10	05:39	14:16:35.9	+63:00:40	300	83	3.0	0 Calibration	2	
0049.JS092913	1200	05:41	14:17:36.1	+08:10:13	300	83	3.0	232 Missing SD	2	
0050.COMP	10	06:02	14:17:36.1	+08:10:13	300	88	3.0	0 Calibration	2	
0051.ZTF19aanijpu	1800	06:09	13:54:02.7	+14:43:47	300	88	3.0	#225	2	
0052.ZTF19aanijpu	1800	06:40	13:54:02.7	+14:43:47	300	88	3.0	#225	2	
0053.COMP	10	07:25	13:54:02.7	+14:43:47	300	87	3.0	0 Calibration	2	
0054.JS029899	1200	07:28	16:11:52.5	+26:15:37	300	87	3.0	232 Missing SD	2	
0055.COMP	10	07:49	16:11:52.5	+26:15:37	300	88	3.0	0 Calibration	2	
0056.JS042139	1800	07:51	16:16:01.1	+32:50:59	300	88	3.0	232 Missing SD	2	
0057.COMP	10	08:22	16:16:01.1	+32:50:59	300	87	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0058.j2012m13	2400	08:30	20:12:21.1	-13:07:05	600	87	1.5	#230 Gravitati	4	
0059.COMP	10	09:10	20:12:21.1	-13:07:05	600	88	1.5	0 Calibration	4	
0060.j2055p10	1200	09:13	20:55:26.6	+10:25:37	600	88	1.5	#230 Gravitati	4	
0061.COMP	10	09:34	20:55:26.6	+10:25:37	600	88	1.5	0 Calibration	4	
0062.j2056p06	1500	09:35	20:56:50.6	+06:21:49	600	90	1.5	#230 Gravitati	4	
0063.COMP	10	10:01	20:56:50.6	+06:21:49	600	90	1.5	0 Calibration	4	
0064.j2112p06	1100	10:03	21:12:58.1	+06:22:20	600	90	1.5	#230 Gravitati	4	
0065.COMP	10	10:22	21:12:58.1	+06:22:20	600	89	1.5	0 Calibration	4	
0066.j2115m07	1800	10:26	21:15:07.4	-07:41:36	600	89	1.5	#230 Gravitati	4	
0067.COMP	10	10:56	21:15:07.4	-07:41:36	600	90	1.5	0 Calibration	4	
0068.j2201p15	1200	10:58	22:01:02.6	+15:44:22	600	90	1.5	#230 Gravitati	4	
0069.COMP	10	11:18	22:01:02.6	+15:44:22	600	90	1.5	0 Calibration	4	
0070.BDp284211	180	11:20	21:51:11.0	+28:51:50	600	90	1.5	#56 Spectropho	4	
0071.COMP	10	11:23	21:51:11.0	+28:51:50	600	91	1.5	0 Calibration	4	
0072-0091.FLAT	12	11:32	21:51:11.0	+28:51:50	600	91	1.5	0 Calibration	4	
0092-0101.BIAS	0	11:37	21:51:11.0	+28:51:50	600	91	1.5	0 Calibration	4	
0102-0106.DARK	900	12:40	21:51:11.0	+28:51:50	600	91	1.5	0 Calibration	2	
0107-0111.DARK	900	13:56	21:51:11.0	+28:51:50	600	91	1.5	0 Calibration	4	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	02:32	11:31:10.4	+31:30:18	600	90	1.5	0 Calibration	4	
0011-0020.BIAS	0	03:05	11:31:10.4	+31:30:18	600	90	1.5	0 Calibration	4	
0021-0040.FLAT	7	03:18	11:31:10.4	+31:30:18	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:21	11:31:10.4	+31:30:18	300	90	3.0	0 Calibration	2	
0051.BDp262606	90	03:35	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0052.COMP	10	03:37	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0053.BDp332642	120	03:39	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0054.COMP	10	03:41	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0055.N4853	420	03:46	12:58:35.2	+27:35:47	300	90	3.0	#57 Velocity S	2	
0056.COMP	10	03:55	12:58:35.2	+27:35:47	300	90	3.0	0 Calibration	2	
0057.ZTF19aanijpu	1800	03:58	13:54:02.7	+14:43:47	300	90	3.0	#225	2	
0058.ZTF19aanijpu	1800	04:28	13:54:02.7	+14:43:47	300	90	3.0	#225	2	
0059.ZTF19aanijpu	1800	04:58	13:54:02.7	+14:43:47	300	90	3.0	#225	2	
0060.COMP	10	05:28	13:54:02.7	+14:43:47	300	90	3.0	0 Calibration	2	
0061.TXCVn	10	05:30	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0062.TXCVn	30	05:30	12:44:42.0	+36:45:48	300	90	3.0	#12 Symbiotic	2	
0063.COMP	10	05:31	12:44:42.0	+36:45:48	300	90	3.0	0 Calibration	2	
0064.TCrB	15	05:35	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0065.TCrB	60	05:36	15:59:30.0	+25:55:12	300	90	3.0	#12 Symbiotic	2	
0066.COMP	10	05:37	15:59:30.0	+25:55:12	300	90	3.0	0 Calibration	2	

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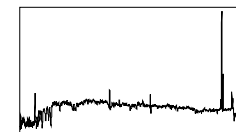
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.AGDra	2	05:40	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0068.AGDra	15	05:41	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0069.AGDra	60	05:41	16:01:41.0	+66:48:10	300	90	3.0	#12 Symbiotic	2	
0070.COMP	10	05:43	16:01:41.0	+66:48:10	300	90	3.0	0 Calibration	2	
0071.AS210	5	05:47	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0072.AS210	300	05:48	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0073.COMP	10	05:53	16:51:20.3	-26:00:33	300	90	3.0	0 Calibration	2	
0074.Hen1341	12	05:55	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0075.Hen1341	30	05:55	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0076.Hen1341	60	05:56	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0077.COMP	10	05:57	17:08:36.0	-17:26:30	300	90	3.0	0 Calibration	2	
0078.DracoC1	1500	06:01	17:19:58.0	+57:50:06	300	90	3.0	#12 Symbiotic	2	
0079.COMP	10	06:26	17:19:58.0	+57:50:06	300	89	3.0	0 Calibration	2	
0080.RSOph	10	06:28	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0081.RSOph	60	06:29	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0082.RSOph	150	06:30	17:50:13.0	-06:42:30	300	89	3.0	#12 Symbiotic	2	
0083.COMP	10	06:33	17:50:13.0	-06:42:30	300	89	3.0	0 Calibration	2	
0084.AS270	60	06:35	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	
0085.AS270	300	06:36	18:05:33.7	-20:20:38	300	89	3.0	#12 Symbiotic	2	
0086.COMP	10	06:44	18:05:33.7	-20:20:38	300	90	3.0	0 Calibration	2	

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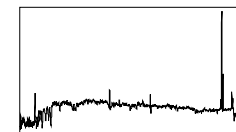
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.Hen1591	120	06:46	18:07:32.0	-25:53:43	300	90	3.0	#12 Symbiotic	2	
0088.Hen1591	300	06:49	18:07:32.0	-25:53:43	300	90	3.0	#12 Symbiotic	2	
0089.COMP	10	06:57	18:07:32.0	-25:53:43	300	89	3.0	0 Calibration	2	
0090.AS281	60	06:59	18:10:44.0	-27:57:51	300	89	3.0	#12 Symbiotic	2	
0091.AS281	360	07:01	18:10:44.0	-27:57:51	300	89	3.0	#12 Symbiotic	2	
0092.COMP	10	07:08	18:10:44.0	-27:57:51	300	90	3.0	0 Calibration	2	
0093.AS289	15	07:11	18:12:22.0	-11:40:08	300	90	3.0	#12 Symbiotic	2	
0094.AS289	420	07:11	18:12:22.0	-11:40:08	300	90	3.0	#12 Symbiotic	2	
0095.COMP	10	07:19	18:12:22.0	-11:40:08	300	90	3.0	0 Calibration	2	
0096.YYHer	10	07:21	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0097.YYHer	60	07:22	18:14:34.0	+20:59:19	300	90	3.0	#12 Symbiotic	2	
0098.COMP	10	07:23	18:14:34.0	+20:59:19	300	89	3.0	0 Calibration	2	
0099.AS296	30	07:26	18:15:07.0	-00:18:52	300	89	3.0	#12 Symbiotic	2	
0100.AS296	120	07:27	18:15:07.0	-00:18:52	300	89	3.0	#12 Symbiotic	2	
0101.COMP	10	07:29	18:15:07.0	-00:18:52	300	90	3.0	0 Calibration	2	
0102.Hen1674	120	07:33	18:20:19.1	-26:22:46	300	90	3.0	#12 Symbiotic	2	
0103.Hen1674	600	07:35	18:20:19.1	-26:22:46	300	89	3.0	#12 Symbiotic	2	
0104.COMP	10	07:46	18:20:19.1	-26:22:46	300	89	3.0	0 Calibration	2	
0105.AS316	30	07:48	18:42:33.0	-21:17:47	300	90	3.0	#12 Symbiotic	2	
0106.AS316	300	07:49	18:42:33.0	-21:17:47	300	89	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0107.COMP	10	07:55	18:42:33.0	-21:17:47	300	89	3.0	0 Calibration	2	
0108.AS327	30	07:56	18:53:17.0	-24:22:59	300	89	3.0	#12 Symbiotic	2	
0109.AS327	300	07:57	18:53:17.0	-24:22:59	300	90	3.0	#12 Symbiotic	2	
0110.COMP	10	08:03	18:53:17.0	-24:22:59	300	89	3.0	0 Calibration	2	
0111.V919Sgr	15	08:05	19:03:45.0	-16:59:56	300	89	3.0	#12 Symbiotic	2	
0112.V919Sgr	30	08:05	19:03:45.0	-16:59:56	300	89	3.0	#12 Symbiotic	2	
0113.COMP	10	08:06	19:03:45.0	-16:59:56	300	89	3.0	0 Calibration	2	
0114.V443Her	5	08:08	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0115.V443Her	45	08:09	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0116.V443Her	90	08:10	18:22:07.0	+23:27:20	300	89	3.0	#12 Symbiotic	2	
0117.COMP	10	08:12	18:22:07.0	+23:27:20	300	89	3.0	0 Calibration	2	
0118.AS338	90	08:15	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0119.AS338	600	08:18	19:03:47.0	+16:26:17	300	89	3.0	#12 Symbiotic	2	
0120.COMP	10	08:28	19:03:47.0	+16:26:17	300	89	3.0	0 Calibration	2	
0121.BFCyg	15	08:30	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0122.BFCyg	15	08:30	19:23:53.0	+29:40:27	300	89	3.0	#12 Symbiotic	2	
0123.COMP	10	08:31	19:23:53.0	+29:40:27	300	89	3.0	0 Calibration	2	
0124.CHCyg	1	08:33	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0125.CHCyg	5	08:33	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	
0126.CHCyg	30	08:34	19:24:33.0	+50:14:30	300	89	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0127.COMP	10	08:35	19:24:33.0	+50:14:30	300	89	3.0	0 Calibration	2	
0128.HMSge	1	08:39	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0129.HMSge	10	08:39	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0130.HMSge	60	08:40	19:41:57.0	+16:44:41	300	89	3.0	#12 Symbiotic	2	
0131.COMP	10	08:42	19:41:57.0	+16:44:41	300	89	3.0	0 Calibration	2	
0132.AS360	60	08:44	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0133.sac	300	08:45	22:39:54.4	+27:24:33	300	89	3.0	#225	2	
0134.AT2019gib	1500	08:50	22:39:54.4	+27:24:33	300	89	3.0	#225	2	
0135.AT2019gib	1500	09:15	22:39:54.4	+27:24:33	300	89	3.0	#225	2	
0136.COMP	5	09:41	22:39:54.4	+27:24:33	300	89	3.0	0 Calibration	2	
0137.AS360	60	09:44	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0138.AS360	300	09:46	19:45:49.0	+18:36:49	300	89	3.0	#12 Symbiotic	2	
0139.COMP	5	09:51	19:45:49.0	+18:36:49	300	90	3.0	0 Calibration	2	
0140.CICyg	1	09:54	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0141.CICyg	10	09:54	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0142.CICyg	60	09:54	19:50:12.0	+35:41:02	300	90	3.0	#12 Symbiotic	2	
0143.COMP	10	09:56	19:50:12.0	+35:41:02	300	90	3.0	0 Calibration	2	
0144.PUVul	1	10:00	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0145.PUVul	10	10:00	20:21:13.0	+21:34:21	300	90	3.0	#12 Symbiotic	2	
0146.PUVul	60	10:00	20:21:13.0	+21:34:21	300	89	3.0	#12 Symbiotic	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0147.COMP	10	10:02	20:21:13.0	+21:34:21	300	89	3.0	0 Calibration	2	
0148.V1515Cyg	60	10:03	20:23:48.0	+42:12:24	300	89	3.0	#12 Symbiotic	2	
0149.V1515Cyg	120	10:05	20:23:48.0	+42:12:24	300	89	3.0	#12 Symbiotic	2	
0150.COMP	10	10:07	20:23:48.0	+42:12:24	300	89	3.0	0 Calibration	2	
0151.2M00380706p5905477	1400	10:15	00:38:07.1	+59:05:48	1200	89	1.5	#231 Non-inter	2	
0152.COMP	30	10:38	00:38:07.1	+59:05:48	1200	89	1.5	0 Calibration	2	
0153.COMP	60	10:39	00:38:07.1	+59:05:48	1200	89	1.5	0 Calibration	2	
0154.2M23563748p5706276	638	10:42	23:56:37.5	+57:06:28	1200	89	1.5	#231 Non-inter	2	
0155.COMP	30	10:54	23:56:37.5	+57:06:28	1200	89	1.5	0 Calibration	2	
0156.COMP	60	10:55	23:56:37.5	+57:06:28	1200	89	1.5	0 Calibration	2	
0157.2M00380145p1837145	638	10:59	00:38:01.4	+18:37:15	1200	89	1.5	#231 Non-inter	2	
0158.COMP	30	11:10	00:38:01.4	+18:37:15	1200	89	1.5	0 Calibration	2	
0159.COMP	60	11:11	00:38:01.4	+18:37:15	1200	89	1.5	0 Calibration	2	
0160.2M00471103p1738040	531	11:13	00:47:11.0	+17:38:04	1200	89	1.5	#231 Non-inter	2	
0161.COMP	30	11:22	00:47:11.0	+17:38:04	1200	88	1.5	0 Calibration	2	
0162.COMP	60	11:23	00:47:11.0	+17:38:04	1200	88	1.5	0 Calibration	2	
0163.2M00471103p1738040	60	11:26	20:00:13.6	+37:29:23	1200	88	1.5	#231 Non-inter	2	
0164.COMP	30	11:28	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	2	
0165.COMP	60	11:29	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	2	
0166.FLAT	60	11:36	20:00:13.6	+37:29:23	1200	88	1.5	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>
0167-0185.FLAT	55	11:57	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	2	
0186-0195.BIAS	0	12:00	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	2	
0196-0205.DARK	900	14:27	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:38	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	4	
0011-0020.BIAS	0	02:12	20:00:13.6	+37:29:23	1200	88	1.5	0 Calibration	4	
0021-0040.FLAT	7	02:26	20:00:13.6	+37:29:23	300	88	3.0	0 Calibration	2	
0041-0050.BIAS	0	02:38	20:00:13.6	+37:29:23	300	88	3.0	0 Calibration	2	
0051.BDp332642	120	03:39	15:51:59.9	+32:56:54	300	88	3.0	#56 Spectropho	2	
0052.COMP	10	03:42	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	
0053.BDp262606	90	03:44	14:49:02.4	+25:42:09	300	88	3.0	#56 Spectropho	2	
0054.COMP	10	03:46	14:49:02.4	+25:42:09	300	88	3.0	0 Calibration	2	
0055.JS024759	1800	03:54	12:28:49.9	+06:08:55	300	88	3.0	232 Missing SD	2	
0056.COMP	10	04:24	12:28:49.9	+06:08:55	300	88	3.0	0 Calibration	2	
0057.JS073356	1200	04:27	13:35:44.8	+11:27:59	300	88	3.0	232 Missing SD	2	
0058.COMP	10	04:47	13:35:44.8	+11:27:59	300	87	3.0	0 Calibration	2	
0059.JS146589	1500	04:49	13:36:00.9	+36:37:34	300	87	3.0	232 Missing SD	2	
0060.COMP	10	05:14	13:36:00.9	+36:37:34	300	87	3.0	0 Calibration	2	
0061.JS113746	1500	05:16	13:37:00.2	+36:01:17	300	87	3.0	232 Missing SD	2	
0062.COMP	10	05:42	13:37:00.2	+36:01:17	300	87	3.0	0 Calibration	2	
0063.JS076128	600	05:44	13:41:28.9	+23:14:44	300	88	3.0	232 Missing SD	2	
0064.COMP	10	05:54	13:41:28.9	+23:14:44	300	87	3.0	0 Calibration	2	
0065.JS009232	1800	05:56	13:42:56.6	+44:48:50	300	87	3.0	232 Missing SD	2	
0066.COMP	10	06:27	13:42:56.6	+44:48:50	300	87	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.JS077218	1800	06:30	13:43:13.1	+03:50:04	300	87	3.0	232 Missing SD	2	
0068.COMP	10	07:00	13:43:13.1	+03:50:04	300	85	3.0	0 Calibration	2	
0069.JS074426	720	07:02	15:03:07.7	+11:12:09	300	84	3.0	232 Missing SD	2	
0070.COMP	10	07:16	15:03:07.7	+11:12:09	300	85	3.0	0 Calibration	2	
0071.JS125516	1200	07:18	15:03:20.1	+08:56:50	300	85	3.0	232 Missing SD	2	
0072.COMP	10	07:39	15:03:20.1	+08:56:50	300	85	3.0	0 Calibration	2	
0073.JS034742	1800	07:40	15:05:31.8	+20:48:25	300	85	3.0	232 Missing SD	2	
0074.COMP	10	08:11	15:05:31.8	+20:48:25	300	84	3.0	0 Calibration	2	
0075.JS063032	600	08:12	15:52:12.0	+34:05:36	300	85	3.0	232 Missing SD	2	
0076.COMP	10	08:23	15:52:12.0	+34:05:36	300	85	3.0	0 Calibration	2	
0077.JS005933	900	08:25	15:53:25.4	+18:47:18	300	85	3.0	232 Missing SD	2	
0078.COMP	10	08:41	15:53:25.4	+18:47:18	300	86	3.0	0 Calibration	2	
0079.JS003695	1500	08:42	15:54:12.2	+18:14:39	300	86	3.0	232 Missing SD	2	
0080.COMP	10	09:08	15:54:12.2	+18:14:39	300	86	3.0	0 Calibration	2	
0081.JS091790	1500	09:10	15:55:47.9	+50:52:37	300	86	3.0	232 Missing SD	2	
0082.COMP	10	09:35	15:55:47.9	+50:52:37	300	86	3.0	0 Calibration	2	
0083.AT2019gib	1800	09:39	22:39:54.4	+27:24:33	300	86	3.0	#225	2	
0084.COMP	10	10:09	22:39:54.4	+27:24:33	300	86	3.0	0 Calibration	2	
0085.V1329Cyg	20	10:14	20:51:01.0	+35:34:55	300	87	3.0	#12 Symbiotic	2	
0086.V1329Cyg	120	10:15	20:51:01.0	+35:34:55	300	87	3.0	#12 Symbiotic	2	

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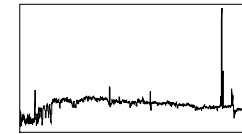
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0087.COMP	10	10:18	20:51:01.0	+35:34:55	300	86	3.0	0 Calibration	2	
0088.V1057Cyg	30	10:20	20:58:54.0	+44:15:30	300	86	3.0	#12 Symbiotic	2	
0089.V1057Cyg	90	10:22	20:58:54.0	+44:15:30	300	86	3.0	#12 Symbiotic	2	
0090.COMP	10	10:24	20:58:54.0	+44:15:30	300	86	3.0	0 Calibration	2	
0091.AGPeg	1	10:26	21:51:02.0	+12:37:33	300	86	3.0	#12 Symbiotic	2	
0092.AGPeg	10	10:26	21:51:02.0	+12:37:33	300	86	3.0	#12 Symbiotic	2	
0093.AGPeg	30	10:27	21:51:02.0	+12:37:33	300	86	3.0	#12 Symbiotic	2	
0094.COMP	10	10:28	21:51:02.0	+12:37:33	300	86	3.0	0 Calibration	2	
0095.ZAnd	1	10:31	23:33:40.0	+48:49:06	300	86	3.0	#12 Symbiotic	2	
0096.ZAnd	5	10:31	23:33:40.0	+48:49:06	300	86	3.0	#12 Symbiotic	2	
0097.ZAnd	30	10:31	23:33:40.0	+48:49:06	300	86	3.0	#12 Symbiotic	2	
0098.COMP	10	10:32	23:33:40.0	+48:49:06	300	86	3.0	0 Calibration	2	
0099.RAqr	1	10:35	23:43:49.0	-15:17:05	300	86	3.0	#12 Symbiotic	2	
0100.RAqr	5	10:35	23:43:49.0	-15:17:05	300	86	3.0	#12 Symbiotic	2	
0101.RAqr	30	10:36	23:43:49.0	-15:17:05	300	86	3.0	#12 Symbiotic	2	
0102.COMP	10	10:37	23:43:49.0	-15:17:05	300	86	3.0	0 Calibration	2	
0103.EGAnd	1	10:39	00:44:37.0	+40:40:47	300	86	3.0	#12 Symbiotic	2	
0104.EGAnd	5	10:39	00:44:37.0	+40:40:47	300	86	3.0	#12 Symbiotic	2	
0105.EGAnd	10	10:40	00:44:37.0	+40:40:47	300	86	3.0	#12 Symbiotic	2	
0106.COMP	10	10:40	00:44:37.0	+40:40:47	300	86	3.0	0 Calibration	2	

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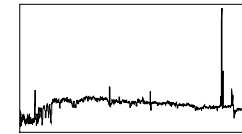
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0107.AXPer	4	10:42	01:36:23.0	+54:15:03	300	86	3.0	#12 Symbiotic	2	
0108.AXPer	30	10:43	01:36:23.0	+54:15:03	300	86	3.0	#12 Symbiotic	2	
0109.AXPer	90	10:43	01:36:23.0	+54:15:03	300	86	3.0	#12 Symbiotic	2	
0110.COMP	10	10:45	01:36:23.0	+54:15:03	300	88	3.0	0 Calibration	2	
0111.ZTF19ababmsi	1800	10:50	01:47:34.8	+25:50:56	300	88	3.0	#225	2	
0112.COMP	10	11:20	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	
0113-0122.BIAS	0	11:28	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	
0123-0142.FLAT	7	11:35	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	
0143-0152.DARK	900	14:01	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	

UT Date 2019-07-06 Observers M CalkinsColl. Focus 1290 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>
0001-0020.DARK	900	07:33	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	4	

UT Date 2019-07-08 Observers M CalkinsColl. Focus 1290 Grating/Grism 300

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0003.DARK	900	05:55	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	4	
0004-0013.BIAS	0	06:11	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	4	
0014-0033.FLAT	7	06:19	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	
0034-0043.BIAS	0	06:21	01:47:34.8	+25:50:56	300	88	3.0	0 Calibration	2	
0044.JS034742	2100	07:10	15:05:31.8	+20:48:25	300	87	3.0	232 Missing SD	2	
0045.COMP	10	07:46	15:05:31.8	+20:48:25	300	86	3.0	0 Calibration	2	
0046.JS032631	1200	07:47	15:12:57.7	+19:42:57	300	86	3.0	232 Missing SD	2	
0047.COMP	10	08:08	15:12:57.7	+19:42:57	300	87	3.0	0 Calibration	2	
0048.JS091632	1800	08:10	15:33:21.0	+54:16:04	300	87	3.0	232 Missing SD	2	
0049.COMP	10	08:40	15:33:21.0	+54:16:04	300	86	3.0	0 Calibration	2	
0050.BDp284211	150	08:43	21:51:11.0	+28:51:50	300	83	3.0	#56 Spectropho	2	
0051.COMP	10	08:46	21:51:11.0	+28:51:50	300	83	3.0	0 Calibration	2	
0052.BDp174708	80	08:48	22:11:31.4	+18:05:34	300	83	3.0	#56 Spectropho	2	
0053.COMP	10	08:50	22:11:31.4	+18:05:34	300	83	3.0	0 Calibration	2	
0054.j2119m03	1771	09:02	21:19:27.0	-03:00:04	600	83	1.5	#230 Gravitati	4	
0055.COMP	10	09:32	21:19:27.0	-03:00:04	600	82	1.5	0 Calibration	4	
0056.j2123p19	1727	09:34	21:23:06.1	+19:17:02	600	82	1.5	#230 Gravitati	4	
0057.COMP	10	10:03	21:23:06.1	+19:17:02	600	82	1.5	0 Calibration	4	
0058.j2140m05	1928	10:06	21:40:42.1	-05:41:15	600	82	1.5	#230 Gravitati	4	
0059.COMP	10	10:38	21:40:42.1	-05:41:15	600	83	1.5	0 Calibration	4	

UT Date 2019-07-08 Observers M CalkinsColl. Focus 1290 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>
0060.j2218p03	1822	10:40	22:18:43.1	+03:19:02	600	83	1.5	#230 Gravitati	4	
0061.COMP	10	11:10	22:18:43.1	+03:19:02	600	83	1.5	0 Calibration	4	
0062.Feige110	300	11:13	23:19:58.4	-05:09:56	600	83	1.5	#56 Spectropho	4	
0063.COMP	10	11:18	23:19:58.4	-05:09:56	600	82	1.5	0 Calibration	4	
0064-0083.FLAT	12	11:33	23:19:58.4	-05:09:56	600	82	1.5	0 Calibration	4	
0084-0093.BIAS	0	11:35	23:19:58.4	-05:09:56	600	82	1.5	0 Calibration	4	
0094.COMP	5	11:49	23:19:58.4	-05:09:56	300	82	3.0	0 Calibration	4	
0095-0099.DARK	900	12:51	23:19:58.4	-05:09:56	300	82	3.0	0 Calibration	4	
0100-0104.DARK	900	14:08	23:19:58.4	-05:09:56	300	82	3.0	0 Calibration	2	

UT Date 2019-07-09 Observers M CalkinsColl. Focus 1290 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>
0001-0010.BIAS	0	02:18	12:58:35.2	+27:35:47	300	89	3.0	0 Calibration	2	
0011-0025.FLAT	7	02:24	12:58:35.2	+27:35:47	300	89	3.0	0 Calibration	2	
0026.COMP	10	02:39	12:58:35.2	+27:35:47	300	89	3.0	0 Calibration	2	
0027.COMP	5	04:00	15:06:29.5	+55:45:48	300	89	3.0	0 Calibration	2	
0028.N5866	120	04:01	15:06:29.5	+55:45:48	300	89	3.0	#57 Velocity S	2	
0029.COMP	5	04:05	15:06:29.5	+55:45:48	300	89	3.0	0 Calibration	2	
0030.BDp332642	120	04:09	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0031.COMP	5	04:12	15:51:59.9	+32:56:54	300	89	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	