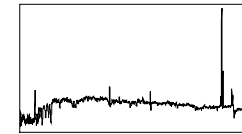


UT Date 2019-05-07 Observers M CalkinsColl. Focus 1290 Grating/Grism 300

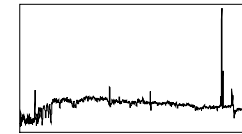
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	03:50	09:08:20.9	+31:30:26	300	88	3.0	0 Calibration	4	
0011-0020.BIAS	0	04:07	09:08:20.9	+31:30:26	300	88	3.0	0 Calibration	4	
0021-0040.FLAT	7	04:13	09:08:20.9	+31:30:26	300	88	3.0	0 Calibration	2	
0041-0050.BIAS	0	04:16	09:08:20.9	+31:30:26	300	88	3.0	0 Calibration	2	
0051.HD84937	30	04:23	09:48:56.1	+13:44:39	300	88	3.0	#56 Spectropho	2	
0052.COMP	10	04:24	09:48:56.1	+13:44:39	300	88	3.0	0 Calibration	2	
0053.Feige34	180	04:26	10:39:36.7	+43:06:09	300	88	3.0	#56 Spectropho	2	
0054.COMP	10	04:30	10:39:36.7	+43:06:09	300	87	3.0	0 Calibration	2	
0055.TXCVn	10	04:32	12:44:42.0	+36:45:48	300	87	3.0	#12 Symbiotic	2	
0056.TXCVn	30	04:32	12:44:42.0	+36:45:48	300	87	3.0	#12 Symbiotic	2	
0057.COMP	10	04:33	12:44:42.0	+36:45:48	300	87	3.0	0 Calibration	2	
0058.TCrB	15	04:38	15:59:30.0	+25:55:12	300	87	3.0	#12 Symbiotic	2	
0059.TCrB	60	04:39	15:59:30.0	+25:55:12	300	87	3.0	#12 Symbiotic	2	
0060.COMP	10	04:41	15:59:30.0	+25:55:12	300	87	3.0	0 Calibration	2	
0061.JS100930	1800	04:45	09:15:29.8	-01:17:58	300	88	3.0	232 Missing SD	2	
0062.COMP	10	05:16	09:15:29.8	-01:17:58	300	88	3.0	0 Calibration	2	
0063.JS136738	1200	05:19	09:16:46.5	+45:48:45	300	70	3.0	232 Missing SD	2	
0064.COMP	10	05:40	09:16:46.5	+45:48:45	300	70	3.0	0 Calibration	2	
0065.JS135921	1800	06:30	12:18:17.4	+13:15:30	300	89	3.0	232 Missing SD	2	
0066.COMP	10	07:00	12:18:17.4	+13:15:30	300	88	3.0	0 Calibration	2	

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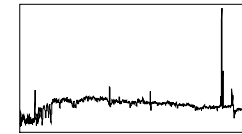
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.JS053551	1200	07:03	12:18:37.1	+48:40:03	300	88	3.0	232 Missing SD	2	
0068.COMP	10	07:29	12:18:37.1	+48:40:03	300	88	3.0	0 Calibration	2	
0069.JS007057	1200	07:32	14:02:27.1	+27:52:06	300	18	3.0	232 Missing SD	2	
0070.COMP	10	07:57	14:02:27.1	+27:52:06	300	18	3.0	0 Calibration	2	
0071.RWHya	2	08:00	13:34:18.0	-25:22:51	300	87	3.0	#12 Symbiotic	2	
0072.RWHya	10	08:01	13:34:18.0	-25:22:51	300	87	3.0	#12 Symbiotic	2	
0073.RWHya	20	08:01	13:34:18.0	-25:22:51	300	87	3.0	#12 Symbiotic	2	
0074.COMP	10	08:02	13:34:18.0	-25:22:51	300	87	3.0	0 Calibration	2	
0075.AGDra	2	08:06	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0076.AGDra	15	08:06	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0077.AGDra	60	08:07	16:01:41.0	+66:48:10	300	88	3.0	#12 Symbiotic	2	
0078.COMP	10	08:33	16:01:41.0	+66:48:10	300	90	3.0	0 Calibration	2	
0079.JS058782	900	09:15	14:02:31.5	+25:46:55	300	89	3.0	232 Missing SD	2	
0080.COMP	10	09:30	14:02:31.5	+25:46:55	300	90	3.0	0 Calibration	2	
0081.JS038905	1500	09:57	15:10:48.8	+27:39:02	300	89	3.0	232 Missing SD	2	
0082.COMP	10	10:23	15:10:48.8	+27:39:02	300	89	3.0	0 Calibration	2	
0083.JS119431	300	10:24	15:10:56.8	+07:59:38	300	89	3.0	232 Missing SD	2	
0084.COMP	10	10:30	15:10:56.8	+07:59:38	300	90	3.0	0 Calibration	2	
0085.JS125257	1200	10:32	15:11:45.9	+31:51:29	300	90	3.0	232 Missing SD	2	
0086.COMP	10	10:53	15:11:45.9	+31:51:29	300	89	3.0	0 Calibration	2	

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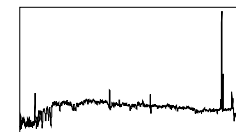
<i>File</i>	<i>Exp Time</i>	<i>UT Start</i>	<i>RA</i>	<i>Dec</i>	<i>Gr.</i>	<i>P.A.</i>	<i>Slit</i>	<i>Program</i>	<i>Bin</i>	<i>Comments</i>
0087.JS040661	1500	10:54	15:12:18.5	+27:50:41	300	89	3.0	232 Missing SD	2	
0088.COMP	10	11:20	15:12:18.5	+27:50:41	300	90	3.0	0 Calibration	2	
0089.AS210	5	11:23	16:51:20.3	-26:00:33	300	90	3.0	#12 Symbiotic	2	
0090.AS210	300	11:24	16:51:20.3	-26:00:33	300	89	3.0	#12 Symbiotic	2	
0091.COMP	10	11:29	16:51:20.3	-26:00:33	300	90	3.0	0 Calibration	2	
0092.Hen1341	12	11:31	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0093.Hen1341	30	11:32	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0094.Hen1341	60	11:33	17:08:36.0	-17:26:30	300	90	3.0	#12 Symbiotic	2	
0095.COMP	10	11:34	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0096-0105.BIAS	0	11:40	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0106-0125.FLAT	7	11:45	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0126-0135.DARK	900	14:04	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	

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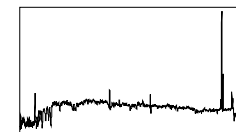
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	02:50	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	4	
0011-0020.BIAS	0	03:06	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:15	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0041-0050.BIAS	0	03:24	17:08:36.0	-17:26:30	300	89	3.0	0 Calibration	2	
0051.JS006512	1800	04:52	09:34:43.2	-01:39:40	300	89	3.0	232 Missing SD	2	
0052.COMP	10	05:22	09:34:43.2	-01:39:40	300	87	3.0	0 Calibration	2	
0053.JS046711	1800	05:24	09:34:53.5	+10:53:31	300	87	3.0	232 Missing SD	2	
0054.COMP	10	05:55	09:34:53.5	+10:53:31	300	88	3.0	0 Calibration	2	
0055.JS044473	2100	05:57	09:43:20.3	+12:26:16	300	88	3.0	232 Missing SD	2	
0056.COMP	10	06:32	09:43:20.3	+12:26:16	300	87	3.0	0 Calibration	2	
0057.JS040287	1200	06:35	14:03:24.4	+33:03:40	300	71	3.0	232 Missing SD	2	
0058.COMP	10	06:56	14:03:24.4	+33:03:40	300	71	3.0	0 Calibration	2	
0059.JS137257	1020	06:57	14:04:21.7	+33:28:34	300	71	3.0	232 Missing SD	2	
0060.COMP	10	07:15	14:04:21.7	+33:28:34	300	70	3.0	0 Calibration	2	
0061.JS000770	1200	07:17	14:06:25.7	+48:31:50	300	90	3.0	232 Missing SD	2	
0062.JS000770	1200	07:38	14:06:25.7	+48:31:50	300	90	3.0	232 Missing SD	2	
0063.COMP	10	07:59	14:06:25.7	+48:31:50	300	89	3.0	0 Calibration	2	
0064.JS076870	1500	08:00	14:07:46.5	+14:00:12	300	89	3.0	232 Missing SD	2	
0065.COMP	10	08:37	14:07:46.5	+14:00:12	300	90	3.0	0 Calibration	2	
0066.JS138661	1500	08:40	14:09:59.8	+58:50:21	300	90	3.0	232 Missing SD	2	

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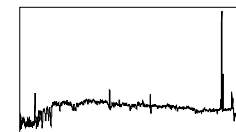
File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0067.COMP	10	09:05	14:09:59.8	+58:50:21	300	90	3.0	0 Calibration	2	
0068.BDp262606	90	09:08	14:49:02.4	+25:42:09	300	90	3.0	#56 Spectropho	2	
0069.COMP	10	09:10	14:49:02.4	+25:42:09	300	90	3.0	0 Calibration	2	
0070.BDp332642	120	09:11	15:51:59.9	+32:56:54	300	90	3.0	#56 Spectropho	2	
0071.COMP	10	09:14	15:51:59.9	+32:56:54	300	90	3.0	0 Calibration	2	
0072.gaia57	180	09:21	15:18:36.0	-10:05:00	600	90	1.5	#230 Gravitati	4	
0073.COMP	10	09:24	15:18:36.0	-10:05:00	600	90	1.5	0 Calibration	4	
0074.j1520p54	1600	09:34	15:20:19.9	+54:27:00	600	89	1.5	#230 Gravitati	4	
0075.COMP	10	10:01	15:20:19.9	+54:27:00	600	89	1.5	0 Calibration	4	
0076.gaia60	150	10:04	16:02:03.7	+09:31:31	600	89	1.5	#230 Gravitati	4	
0077.COMP	10	10:07	16:02:03.7	+09:31:31	600	89	1.5	0 Calibration	4	
0078.gaia61	171	10:12	16:05:08.3	+73:08:24	600	89	1.5	#230 Gravitati	4	
0079.COMP	10	10:15	16:05:08.3	+73:08:24	600	89	1.5	0 Calibration	4	
0080.gaia62	188	10:17	16:17:16.3	+41:58:13	600	89	1.5	#230 Gravitati	4	
0081.COMP	10	10:22	16:17:16.3	+41:58:13	600	89	1.5	0 Calibration	4	
0082.j1622p05	1706	10:25	16:22:16.1	+05:32:52	600	89	1.5	#230 Gravitati	4	
0083.COMP	10	10:54	16:22:16.1	+05:32:52	600	89	1.5	0 Calibration	4	
0084.BDp332642	180	10:56	15:51:59.9	+32:56:54	600	89	1.5	#56 Spectropho	4	
0085.COMP	10	11:00	15:51:59.9	+32:56:54	600	89	1.5	0 Calibration	4	
0086.gaia73	181	11:01	17:05:13.1	+19:56:42	600	88	1.5	#230 Gravitati	4	

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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>
0087.COMP	10	11:05	17:05:13.1	+19:56:42	600	89	1.5	0 Calibration	4	
0088.gaia74	131	11:07	17:13:23.4	+26:16:04	600	89	1.5	#230 Gravitati	4	
0089.COMP	10	11:10	17:13:23.4	+26:16:04	600	89	1.5	0 Calibration	4	
0090.j1713p33	1828	11:12	17:13:30.2	+33:55:42	600	89	1.5	#230 Gravitati	4	
0091.COMP	10	11:43	17:13:30.2	+33:55:42	600	88	1.5	0 Calibration	4	
0092-0101.BIAS	0	11:46	17:13:30.2	+33:55:42	600	88	1.5	0 Calibration	4	
0102-0121.FLAT	12	11:55	17:13:30.2	+33:55:42	600	88	1.5	0 Calibration	4	
0122-0128.DARK	900	13:28	17:13:30.2	+33:55:42	600	88	1.5	0 Calibration	2	

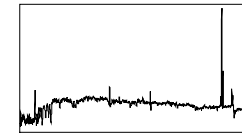
UT Date 2019-05-09 Observers M CalkinsColl. Focus 1290 Grating/Grism 600

File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0001-0010.DARK	900	01:56	17:13:30.2	+33:55:42	300	88	3.0	0 Calibration	2	
0011-0020.BIAS	0	02:57	17:13:30.2	+33:55:42	300	88	3.0	0 Calibration	4	
0021-0040.FLAT	7	03:55	17:13:30.2	+33:55:42	300	88	3.0	0 Calibration	2	
0041-0060.BIAS	0	04:06	17:13:30.2	+33:55:42	300	88	3.0	0 Calibration	2	
0061.J085051	1500	04:18	08:50:52.0	+08:30:27	300	88	3.0	#227 Changing-	2	
0062.J085051	1500	04:43	08:50:52.0	+08:30:27	300	88	3.0	#227 Changing-	2	
0063.J085051	1500	05:08	08:50:52.0	+08:30:27	300	88	3.0	#227 Changing-	2	
0064.COMP	10	05:34	08:50:52.0	+08:30:27	300	88	3.0	0 Calibration	2	
0065.JS112791	1800	05:36	09:43:30.7	+05:54:29	300	88	3.0	232 Missing SD	2	
0066.COMP	10	06:07	09:43:30.7	+05:54:29	300	89	3.0	0 Calibration	2	
0067.JS050237	1500	06:10	09:44:26.4	+03:03:21	300	89	3.0	232 Missing SD	2	
0068.COMP	10	06:36	09:44:26.4	+03:03:21	300	89	3.0	0 Calibration	2	
0069.JS046167	1800	06:40	12:19:01.0	+51:16:33	300	89	3.0	232 Missing SD	2	
0070.COMP	10	07:11	12:19:01.0	+51:16:33	300	89	3.0	0 Calibration	2	
0071.JS066577	1500	07:16	12:22:21.6	+31:07:44	300	89	3.0	232 Missing SD	2	
0072.COMP	10	07:42	12:22:21.6	+31:07:44	300	89	3.0	0 Calibration	2	
0073.BDp262606	90	07:44	14:49:02.4	+25:42:09	300	89	3.0	#56 Spectropho	2	
0074.COMP	10	07:46	14:49:02.4	+25:42:09	300	89	3.0	0 Calibration	2	
0075.BDp332642	120	07:48	15:51:59.9	+32:56:54	300	89	3.0	#56 Spectropho	2	
0076.COMP	10	07:50	15:51:59.9	+32:56:54	300	88	3.0	0 Calibration	2	

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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0077.2M12201387p1533262	88	07:58	12:20:13.9	+15:33:26	1200	88	1.5	#231 Non-inter	2	
0078.COMP	80	08:00	12:20:13.9	+15:33:26	1200	88	1.5	0 Calibration	2	
0079.COMP	30	08:02	12:20:13.9	+15:33:26	1200	88	1.5	0 Calibration	2	
0080.2M13342393p3839433	700	08:05	13:34:23.9	+38:39:43	1200	88	1.5	#231 Non-inter	2	
0081.COMP	80	08:18	13:34:23.9	+38:39:43	1200	88	1.5	0 Calibration	2	
0082.COMP	30	08:20	13:34:23.9	+38:39:43	1200	88	1.5	0 Calibration	2	
0083.2M16111737p2212522	720	08:24	16:11:17.4	+22:12:52	1200	88	1.5	#231 Non-inter	2	
0084.COMP	80	08:38	16:11:17.4	+22:12:52	1200	87	1.5	0 Calibration	2	
0085.COMP	30	08:42	16:11:17.4	+22:12:52	1200	87	1.5	0 Calibration	2	
0086.2M18032842p6133262	500	08:47	18:03:28.4	+61:33:26	1200	87	1.5	#231 Non-inter	2	
0087.COMP	80	08:56	18:03:28.4	+61:33:26	1200	87	1.5	0 Calibration	2	
0088.COMP	30	08:58	18:03:28.4	+61:33:26	1200	87	1.5	0 Calibration	2	
0089.2M19052248p4328030	314	09:03	19:05:22.5	+43:28:03	1200	89	1.5	#231 Non-inter	2	
0090.COMP	80	09:09	19:05:22.5	+43:28:03	1200	88	1.5	0 Calibration	2	
0091.COMP	30	09:11	19:05:22.5	+43:28:03	1200	88	1.5	0 Calibration	2	
0092.2M19581002p1908075	720	09:14	19:58:10.0	+19:08:08	1200	88	1.5	#231 Non-inter	2	
0093.COMP	80	09:27	19:58:10.0	+19:08:08	1200	87	1.5	0 Calibration	2	
0094.HIP98456	65	09:33	20:00:13.6	+37:29:23	1200	87	1.5	#231 Non-inter	2	
0095.COMP	80	09:34	20:00:13.6	+37:29:23	1200	87	1.5	0 Calibration	2	
0096.COMP	30	09:37	20:00:13.6	+37:29:23	1200	87	1.5	0 Calibration	2	



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File	Exp Time	UT Start	RA	Dec	Gr.	P.A.	Slit	Program	Bin	Comments
0097-0106.FLAT	60	09:50	20:00:13.6	+37:29:23	1200	87	1.5	0 Calibration	2	
0107.sm1521	1800	09:56	15:21:52.1	-06:17:20	600	87	1.5	#230 Gravitati	4	hdr wrong, shld be 600L, tilt=445
0108.COMP	10	10:26	15:21:52.1	-06:17:20	600	89	1.5	0 Calibration	4	hdr wrong, shld be 600L, tilt=445
0109.gaia58	128	10:28	15:36:06.5	+10:11:18	600	89	1.5	#230 Gravitati	4	hdr wrong, shld be 600L, tilt=445
0110.COMP	10	10:34	15:36:06.5	+10:11:18	600	89	1.5	0 Calibration	4	hdr wrong, shld be 600L, tilt=445
0111.j1538p52	1900	10:37	15:38:30.1	+52:11:53	600	100	1.5	#230 Gravitati	4	hdr wrong, shld be 600L, tilt=445
0112.COMP	10	11:10	15:38:30.1	+52:11:53	600	100	1.5	0 Calibration	4	hdr wrong, shld be 600L, tilt=445
0113.BDp332642	240	11:12	15:51:59.9	+32:56:54	600	90	1.5	#56 Spectropho	4	hdr wrong, shld be 600L, tilt=445
0114.COMP	10	11:16	15:51:59.9	+32:56:54	600	90	1.5	0 Calibration	4	hdr wrong, shld be 600L, tilt=445
0115.gaia75	181	11:19	17:14:55.0	+29:08:01	600	90	1.5	#230 Gravitati	4	
0116.COMP	10	11:23	17:14:55.0	+29:08:01	600	90	1.5	0 Calibration	4	
0117.gaia76	203	11:25	17:18:50.9	+24:18:34	600	90	1.5	#230 Gravitati	4	
0118.COMP	10	11:30	17:18:50.9	+24:18:34	600	91	1.5	0 Calibration	4	
0119.gaia77	408	11:31	17:18:56.8	+28:26:22	600	91	1.5	#230 Gravitati	4	
0120.COMP	10	11:39	17:18:56.8	+28:26:22	600	91	1.5	0 Calibration	4	
0121-0130.BIAS	0	11:46	19:28:39.1	+31:30:48	600	90	1.5	0 Calibration	4	
0131-0150.FLAT	12	11:58	19:28:39.1	+31:30:48	600	90	1.5	0 Calibration	4	
0151-0160.DARK	900	14:17	19:28:39.1	+31:30:48	600	90	1.5	0 Calibration	2	

UT Date 2019-05-10 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.DARK	900	01:48	19:28:39.1	+31:30:48	600	90	1.5	0 Calibration	2	
0011-0020.BIAS	0	04:28	19:28:39.1	+31:30:48	600	90	1.5	0 Calibration	2	
0021-0040.FLAT	7	05:33	19:28:39.1	+31:30:48	300	90	3.0	0 Calibration	2	
0041-0050.BIAS	0	05:36	19:28:39.1	+31:30:48	300	90	3.0	0 Calibration	4	
0051-0070.DARK	900	10:48	19:28:39.1	+31:30:48	300	90	3.0	0 Calibration	4	