

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O57	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens	grating	note
										-2	-1	0	1	2									
1	Jan	1	E44	E0370	um		20160103_231925	spo			v	v		-0.3	0.1	30	54	30	5	FD24	600UV		
2	2		E44	E0371	um		20160104_030116	QUA			v	v		-0.5	0.4	18	79	30	13	FD24	600UV		
3	3		E44	E0372	N0		20160104_033512	QUA			v	v		-0.7	0.5	14	76	30	14	FD24	600UV		
4	4		E44	E0373	N1		20160104_035815	QUA	v		v	v		-1.5	0.5	23	73	30	17	FD24	600UV		
5	5		E44	E0374	N1	o	20160104_043313	QUA			v	v		-1	0.4	16	59	30	12	FD24	600UV		
6	6		E44	E0375	N1	o	20160104_044644	QUA			v	v		-1.4	0.3	18	59	30	9	FD24	600UV		
7	7		E44	E0376	N3		20160104_054755	COM	v	v	v	v		-2	0.1	27	48	30	4	FD24	600UV		
8	8		E44	E0377	N1		20160104_055344	QUA			v	v		-1.2	0.2	21	50	30	8	FD24	600UV		
9	9		E45	E0378	N3	o	20160104_061510	QUA			v	v		-0.9	0.3	17	46	30	11	FD24	600UV		
10	10		E45	E0379	N3		20160105_024307	spo	v	v				0.2	0.6	5.2	0	30	19	FD24	600UV		
11	11		E45	E0380	N0		20160107_030145	QUA			v	v		-2.1	0.6	23	43	30	18	FD24	600UV	edge	
12	12		E45	E0381	um		20160107_045003	QUA			v	v		-0.5	0.2	22	50	30	6	FD24	600UV		
13	13		E45	E0382	Fe		20160107_225526	spo			v	v		-0.2	0.3	4.7	82	30	10	FD50	600UV	Fe fireball	
14	14		E45	E0383	N7		20160108_205248	spo			v	v		2.6	0.8	0.5	62	30	25	FD50	600UV		
15	15		E45	E0384	N1		20160108_223443	spo			v	v		1.4	1.6	2.9	82	30	33	FD50	600UV		
16	16		E46	E0385	N1		20160109_193736	spo			v							still		FD50	600UV		
17	17		E46	E0386	un		20160109_203158	spo			v	v		2.6	1	3.9	55	30	29	FD50	600UV		
18	18		E46	E0387	un		20160112_225734	spo			v	v		0.6	0.8	4.4	27	30	24	FD50	600UV		
19	19		E46	E0388	um		20160113_221638	ANT			v	v		0.8	0.5	11	23	30	17	FD50	600UV		
20	20		E46	E0389	N6		20160114_032702	spo			v			-1.5	0.4	4.5	47	30	14	FD50	600UV		
21	21		E46	E0390	N3		20160114_060703	spo			v	v		0.2	0.4	3.4	23	30	13	FD50	600UV		
22	22		E46	E0391	Fe		20160115_213617	spo			v	v		-2.4	0.2	8.7	18	30	8	FD50	600UV	edge	
23	23		E46	E0392	N3		20160116_051210	spo			v	v		-0.6	0.2	17	33	30	6	FD50	600UV		
24	24		E47	E0393	N3		20160116_054008	spo			v	v		0.2	0.4	7.2	25	30	12	FD50	600UV	edge	
25	25		E47	E0394	N1	o	20160116_061212	spo	v		v	v		-0.5	0.6	6.4	32	30	21	FD50	600UV		
26	26		E47	E0395	N3	o	20160117_060705	spo	v		v			-0.7	0.1	12	48	30	6	FD50	600UV		
27	27		E47	E0396	un		20160118_214615	spo			v	v		-0.3	0.5	10	13	30	17	FD50	600UV		
28	28		E47	E0397	N3		20160119_021444	spo	v		v			1.2	0.6	5.1	202	30	18	FD50	600UV		
29	29		E47	E0398	N0		20160119_022233	spo	v		v			-1	0.6	22	203	30	14	FD50	600UV		
30	30		E47	E0399	um		20160119_022714	spo			v	v						still		FD50	600UV	faint	
31	31		E47	E0400	um		20160119_041947	ANT			v	v		2	0.4	2.2	96	30	13	FD50	600UV		
32	32		E47	E0401	um		20160119_054123	spo			v	v		1.7	0.6	5.9	77	30	20	FD50	600UV		
33	33		E48	E0402	N3		20160119_223835	spo			v	v						still		FD50	600UV		
34	34		E48	E0403	u		20160119_232432	spo			v	v						still		FD50	600UV	edge	
35	35		E48	E0404	N1		20160120_014507	spo			v			1.1	0.1	8.8	145	30	5	FD50	600UV		
36	36		E48	E0405	N1		20160120_033755	spo	v		v	v		-1	0.4	15	164	30	14	FD50	600UV		
37	37		E48	E0406	N3		20160120_224218	spo			v	v		0.9	0.4	12	23	30	12	FD50	600UV	faint	
38	38		E48	E0407	Fe		20160124_230029	spo			v	v		1.8	0.5	2.8	62	30	15	FD50	600UV		
39	39		E49	E0408	Fe		20160125_013941	J5_xUm			v			0.8	0.2	9.4	48	30	7	FD50	600UV		
40	40		E49	E0409	Fe		20160125_024026	spo			v	v		1.2	0.3	3.2	34	30	9	FD50	600UV		
41	41		E49	E0410	Fe		20160125_025422	spo			v	v		1.8	0.4	0.7	28	30	13	FD50	600UV		
42	42		E49	E0411	N0		20160131_040308	ANT			v	v		0.8	0.4	4.3	77	30	14	FD50	600UV		
43	Feb	1	E49	E0412	N3		20160203_014140	ANT			v	v		1.1	0.3	5.5	57	30	10	FD24	600UV_re	re:reverse	
44	2		E49	E0413	un		20160203_032111	spo			v	v		1.1	1.1	7.5	44	30	35	FD24	601UV_re		
45	3		E49	E0414	um		20160203_034214	spo			v	v		0.6	0.1	11	54	30	3	FD24	602UV_re		
46	4		E49	E0415	um		20160204_005924	ANT			v	v		1	0.2	12	78	30	8	FD24	603UV_re		
47	5		E49	E0416	N1		20160204_014435	ANT			v			-1.8	0.3	6.3	69	30	11	FD24	604UV_re		
48	6		E49	E0417	N3		20160204_045607	spo			v	v		0.9	0.9	0.9	57	30	29	FD24	605UV_re		
49	7		E49	E0418	N3		20160204_053715	spo	v		v	v		-1.1	0.3	32	49	30	9	FD24	606UV_re		
50	8		E49	E0419	N3		20160204_055627	spo	v		v	v		-0.4	0.1	21	51	30	5	FD24	607UV_re		
51	9		E49	E0420	N3		20160204_060326	spo	v		v			-0.7	0.2	18	41	30	8	FD24	608UV_re		
52	10		E49	E0421	N0		20160204_061923	spo			v			-1.3	0.1	18	16	30	4	FD24	609UV_re		
53	11		E49	E0422	N1		20160204_062832	spo			v	v		0.3	0.6	2.4	5	30	18	FD24	610UV_re		
54	12		E50	E0423	un		20160206_034147	spo			v	v		-1.1	0.1	17	38	30	5	FD24	611UV_re		
55	13		E50	E0424	N6		20160206_234255	spo			v	v		0.6	0.5	6.3	92	30	16	FD24	612UV_re		
56	14		E50	E0425	N0		20160207_001746	ANT			v	v		-0.9	0.4	11	95	30	13	FD24	613UV_re		
57	15		E50	E0426	Fe		20160207_013707	spo			v	v	v	-0.9	0.6	4.8	73	30	18	FD24	614UV_re		
58	16		E50	E0427	um		20160207_024026	spo			v	v		1.1	3.4	4.4	53	30	95	FD24	615UV_re		
59	17		E50	E0428	N3		20160207_025538	spo			v	v		1.3	0.7	1.9	59	30	20	FD24	616UV_re		
60	18		E50	E0429	N1		20160207_040310	spo			v	v		-1	0.5	6.9	61	30	17	FD24	617UV_re		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O57	spe. order					Mag.	Dur.	Ave. Vel. sec. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
61	19		E50	E0430	N3		20160207_044718	spo			v	v		0.3	0.4	8.2	53	30	12	FD24	618UV_re		
62	20		E50	E0431	um		20160207_050326	spo	v		v	v		0	0.2	22	50	30	6	FD24	619UV_re		
63	21		E50	E0432	Fe		20160207_193005	spo			v	v		-0.5	0.2	14	34	30	8	FD24	620UV_re		
64	22		E51	E0433	N7		20160207_222214	spo	v	v	v	v		-1.9	2.8	8.9	90	30	86	FD24	621UV_re		
65	23		E51	E0434	N3		20160208_000015	spo			v	v		-0.8	0.6	4.3	23	30	19	FD24	622UV_re		
66	24		E51	E0435	um		20160208_002806	spo			v	v		-0.1	0.2	22	81	30	7	FD24	623UV_re		
67	25		E51	E0436	N3		20160208_043004	spo			v	v		-0.4	0.6	9.4	64	30	19	FD24	624UV_re		
68	26		E51	E0437	N3		20160208_054217	spo	v	v	v	v		-1.4	1.6	19	53	30	48	FD24	625UV_re		
69	27		E52	E0438	um		20160208_061254	spo			v	v		0.1	0.2	22	23	30	7	FD24	626UV_re		
70	28		E52	E0439	N1		20160209_014701	spo			v	v	v	-0.5	0.1	20	55	30	5	FD24	627UV_re		
71	29		E52	E0440	N3		20160209_015557	spo			v	v		0.2	0.5	8	52	30	17	FD24	628UV_re		
72	30		E52	E0441	N3		20160209_020401	ANT		v	v			0.7	0.7	3.2	49	30	17	FD24	629UV_re		
73	31		E52	E0442	N0		20160209_025953	spo			v	v		0.1	0.1	24	48	30	5	FD24	630UV_re		
74	32		E52	E0443	N3		20160209_031438	spo	v		v	v		-1.8	0.1	32	47	30	3	FD24	631UV_re		
75	33		E52	E0444	N3		20160209_041612	spo		v	v	v		-1.9	1.2	11	43	30	37	FD24	632UV_re		
76	34		E52	E0445	un		20160210_033454	spo			v	v		0.2	0.1	20	46	30	3	FD24	633UV_re		
77	35		E52	E0446	N3		20160210_040240	spo			v	v		1.6	0.4	2.3	51	30	12	FD24	634UV_re		
78	36		E52	E0447	N3		20160210_045633	spo	v		v	v		-1	0.1	14	54	30	4	FD24	635UV_re		
79	37		E53	E0448	N7		20160211_233737	spo			v	v		-2	0.3	8	12	30	10	FD24	636UV_re		
80	38		E53	E0449	Fe		20160216_033154	spo			v	v		0.2	0.9	6.7	80	30	28	FD24	600UV		
81	39		E53	E0450	N1		20160216_050731	spo	v		v	v		-0.5	0.2	16	58	30	7	FD24	600UV		
82	40		E53	E0451	N3		20160216_051833	spo			v	v		-0.3	0.1	12	54	30	3	FD24	600UV		
83	41		E53	E0452	N1		20160216_052822	spo			v	v		-0.8	0.4	23	57	30	14	FD24	600UV		
84	42		E53	E0453	Fe		20160217_002055	spo			v	v		-0.5	0.1	10	36	30	5	FD24	600UV		
85	43		E53	E0454	N7		20160217_013659	spo			v	v		0.4	0.9	4.2	42	30	28	FD24	600UV		
86	44		E53	E0455	u		20160219_011229	ANT			v	v		0.9	0.1	9.7	19	30	5	FD24	600UV		
87	45		E53	E0456	un		20160219_040131	spo		v	v			1.2	0.3	6.2	46	30	11	FD24	600UV		
88	46		E53	E0457	N3		20160219_044013	spo	v		v	v		-0.2	0.2	22	40	30	6	FD24	600UV		
89	47		E53	E0458	N3		20160225_011809	spo		v	v			0.7	0.2	6.9	29	30	6	FD24	600UV		
90	48		E53	E0459	N6		20160225_022247	spo			v	v		-0.4	1.8	5.7	23	30	52	FD24	600UV		
91	49		E53	E0460	um		20160225_024637	spo			v	v		-0.1	0.1	36	26	30	3	FD24	600UV		
92	50		E53	E0461	N6		20160225_042753	spo			v	v		0.5	0.4	5.7	11	30	12	FD24	600UV		
93	51		E54	E0462	N1		20160228_021330	ANT		v	v			0.1	0.3	13	21	30	10	FD24	600UV		
94	52		E54	E0463	N3		20160229_235451	spo	v		v	v		-1.6	0.7	21	82	30	21	FD24	600UV		
95	53		E54	E0464	um		20160301_034106	spo			v	v		-0.4	0.2	16	57	30	6	FD24	600UV		
96	Mar\ 1		E54	E0465	N3		20160301_213840	spo			v	v		0.1	1	12	114	30	30	FD24	600UV		
97	2		E54	E0466	um		20160302_033733	ANT			v	v		1.3	0.5	3.7	60	30	17	FD24	600UV		
98	3		E54	E0467	N3		20160302_041323	ANT			v	v		1.6	0.7	3.7	60	30	21	FD24	600UV		
99	4		E54	E0468	N3		20160302_041627	spo			v	v		0.3	1	1	60	30	33	FD24	600UV		
100	5		E54	E0469	um		20160303_031202	spo			v	v		2.4	0.3	1	54	30	9	FD24	600UV		
101	6		E54	E0470	N3		20160303_041148	spo	v		v	v		0	0.2	9.9	49	30	7	FD24	600UV		
102	7		E54	E0471	Fe		20160303_055438	spo			v	v		-0.7	0.5	7	18	30	15	FD24	600UV		
103	8		E54	E0472	N1		20160303_233405	ANT			v	v		-1	0.2	17	28	30	8	FD24	600UV		
104	9		E54	E0473	N7		20160313_014401	spo			v	v		2.7	1.8	8.4	1	30	57	FD24	600UV		
105	10		E55	E0474	u		20160315_025202	spo			v	v		0	0.9	6.6	31	30	27	FD24	600UV	faint	
106	11		E55	E0475	u		20160315_053106	spo			v	v		0.7	0.2	5	25	30	7	FD24	600UV		
107	12		E55	E0476	um		20160317_010403	spo			v	v		1	0.1	11	45	30	3	FD24	600UV		
108	13		E55	E0477	N1		20160322_034225	spo			v	v		0.2	0.2	1.5	9	30	8	FD24	600UV		
109	14		E55	E0478	N3		20160328_231125	spo			v	v		-1.8	2.7	8	29	30	83	FD24	600UV		
110	Apr\ 1		E55	E0479	um		20160405_012917	ANT			v	v		0.3	0.3	8.3	26	30	10	FD24	600UV		
111	2		E55	E0480	um		20160405_044253	spo	v		v	v		-0.2	0.2	11	24	30	6	FD24	600UV		
112	3		E55	E0481	Fe		20160406_004903	spo			v	v		-0.5	0.4	4.6	13	30	13	FD24	600UV		
113	4		E55	E0482	N3		20160406_021132	spo			v	v		0.3	1	3.7	25	30	30	FD24	600UV		
114	5		E55	E0483	N6		20160415_232821	spo			v	v		0	0.4	5.6	9	30	14	FD24	600UV		
115	6		E56	E0484	N0		20160415_234036	LYR			v	v		-1.3	1	9.1	10	30	30	FD24	600UV		
116	7		E56	E0485	N3		20160416_012949	LYR			v	v		-2.9	0.4	12	12	30	14	FD24	600UV		
117	8		E56	E0486	N3		20160418_040942	spo			v	v		-1.7	0.4	22	0	30	12	FD24	600UV		
118	9		E56	E0487	um		20160418_041243	ANT			v	v		-0.3	0.4	7.8	15	30	14	FD24	600UV		
119	10		E56	E0488	um		20160419_040105	spo			v	v		1.2	0.1	9.6	39	30	5	FD24	600UV		
120	11		E56	E0489	um		20160420_000708	spo	v		v	v		-0.8	0.3	25	9	30	11	FD24	600UV		

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									-2	-1	0	1	2									
121	12	E56	E0490	um		20160420_030833	spo			v	v		-0.9	0.5	11	13	30	15	FD24	600UV		
122	13	E56	E0491	um		20160423_040608	LYR			v	v		-2.2	0.2	15	4	30	8	FD24	600UV		
123	14	E56	E0492	N3		20160430_004900	spo			v	v		0	0.7	7	27	30	23	FD24	600UV		
124	15	E57	E0493	um		20160430_015230	spo			v	v		0.4	0.2	22	25	30	6	FD24	600UV		
125	16	E57	E0494	N1		20160430_024748	ANT			v	v		-0.6	0.6	15	32	30	20	FD24	600UV		
126	17	E57	E0495	N3		20160430_030815	spo		v	v		-0.9	0.7	8.6	29	30	21	FD24	600UV			
127	18	E57	E0496	N1		20160501_042942	spo			v	v		-1.2	0.1	9.9	51	30	4	FD24	600UV		
128	May\1	E57	E0497	N6		20160503_214238	spo			v	v		-2.7	0.4	4.1	8	30	13	FD24	600UV		
129	2	E57	E0498	um		20160504_015151	spo			v	v		-0.6	0.1	16	25	30	5	FD24	600UV		
130	3	E57	E0499	N3		20160504_023059	spo			v	v		-0.1	1	2.8	31	30	31	FD24	600UV		
131	4	E57	E0500	N6		20160504_025433	ETA	v		v	v		-0.2	0.3	15	37	30	9	FD24	600UV		
132	5	E57	E0501	N3		20160504_035905	ETA	v	v	v	v		-2	0.6	20	41	30	18	FD24	600UV		
133	6	E58	E0502	N3		20160504_203424	spo			v	v		-2	0.6	9.4	14	30	18	FD24	600UV		
134	7	E58	E0503	um		20160504_215854	spo			v	v		-0.4	0.4	12	13	30	14	FD24	600UV		
135	8	E58	E0504	N1		20160504_225026	spo	v	v	v		-0.7	0.8	11	21	30	24	FD24	600UV			
136	9	E58	E0505	N3		20160512_014954	spo			v	v		0.9	1	3.7	37	30	32	FD24	600UV		
137	10	E58	E0506	N3		20160513_012354	spo			v	v		-2	0.9	15	24	30	23	FD24	600UV		
138	11	E58	E0507	N1		20160513_035557	spo			v	v		0	0.5	9.2	36	30	16	FD24	600UV		
139	12	E59	E0508	N6		20160513_214637	spo		v	v	v		-3.1	1	8	12	30	31	FD24	600UV		
140	13	E59	E0509	um		20160514_023514	spo			v	v		-0.1	0.3	15	36	30	10	FD24	600UV		
141	14	E59	E0510	N1		20160514_025650	spo			v	v		2.2	0.3	1	40	30	9	FD24	600UV		
142	15	E59	E0511	N3		20160524_014801	ANT			v	v		0.1	0.6	4.6	13	30	18	FD24	600UV		
143	16	E59	E0512	N3		20160531_004439	spo			v	v		0.1	0.3	2.8	3	30	9	FD24	600UV		
144	17	E59	E0513	N3		20160531_034342	spo			v	v		-0.7	0.2	19	2	30	7	FD24	600UV		
145	Jun\1	E59	E0514	N3		20160603_003101	ANT			v			0.6	0.3	7.8	30	30	9	FD24	600UV		
146	2	E59	E0515	N3		20160603_010851	spo	v	v				-1.4	0.9	5.7	36	30	27	FD24	600UV		
147	3	E59	E0516	un		20160603_010939	spo			v	v		1.2	1.1	1.7	42	30	34	FD24	600UV		
148	4	E59	E0517	un		20160603_012547	spo		v	v			1.2	0.2	4.1	36	30	7	FD24	600UV		
149	5	E59	E0518	N1		20160603_033946	spo			v	v		-0.5	0.4	9.8	24	30	14	FD24	600UV		
150	6	E59	E0519	um		20160627_002906	spo			v	v		0.1	0.2	8	34	30	6	FD24	600UV		
151	7	E59	E0520	um		20160627_012510	spo			v	v		-0.3	0.2	19	45	30	7	FD24	600UV		
152	8	E60	E0521	um		20160627_035639	spo			v	v		-0.2	0.2	14	50	30	6	FD24	600UV		
153	9	E60	E0522	um		20160630_021048	spo			v	v		-0.2	0.2	6.6	44	30	4	FD24	600UV		
154	10	E60	E0523	N7		20160630_224353	spo			v	v		0.1	3	1.2	42	30	89	FD24	600UV		
155	11	E60	E0524	N3		20160630_232857	spo			v	v		0.6	0.5	7.5	44	30	15	FD24	600UV		
156	Jul\1	E60	E0525	un		20160702_042345	spo			v	v		-1.4	0.1	18	6	30	5	FD24	600UV		
157	2	E60	E0526	N1		20160703_223950	ANT		v	v	v		-0.5	0.6	12	54	30	18	FD24	600UV		
158	3	E60	E0527	N3		20160703_233400	spo			v	v		0.9	0.5	5.4	49	30	17	FD24	600UV		
159	4	E60	E0528	N3		20160704_002009	spo			v	v		0.3	0.8	8.8	53	30	24	FD24	600UV		
160	5	E60	E0529	N1		20160704_021538	spo			v	v		-0.3	0.2	19	55	30	6	FD24	600UV		
161	6	E60	E0530	N1		20160704_214628	ANT			v	v		0	0.6	11	32	30	18	FD24	600UV		
162	7	E60	E0531	N6		20160704_223351	spo		v	v	v		-1.1	0.8	6	30	30	26	FD24	600UV		
163	8	E60	E0532	N3		20160705_011527	ANT			v	v		-0.2	0.3	12	54	30	9	FD24	600UV		
164	9	E61	E0533	um		20160705_013817	spo			v	v		0.4	0.1	16	59	30	3	FD24	600UV		
165	10	E61	E0534	um		20160705_021943	spo			v	v		0.2	0.2	10	64	30	6	FD24	600UV		
166	11	E61	E0535	um		20160705_023734	spo			v	v		-0.1	0.1	16	58	30	5	FD24	600UV		
167	12	E61	E0536	um		20160705_035409	spo			v	v		0.7	0.2	12	75	30	8	FD24	600UV		
168	13	E61	E0537	N6		20160705_213355	spo		v	v	v		-3.8	1.1	7.6	33	30	34	FD24	600UV		
169	14	E61	E0538	N6		20160705_224250	spo			v	v		-0.1	1.1	6.2	43	30	35	FD24	600UV		
170	15	E61	E0539	N1		20160706_010656	spo			v	v		0	0.5	9.5	70	30	15	FD24	600UV		
171	16	E61	E0540	um		20160706_014918	spo			v	v		0.6	0.3	14	57	30	9	FD24	600UV		
172	17	E62	E0541	N3		20160706_020628	spo			v	v		-1	1.3	26	51	30	45	FD24	600UV		
173	18	E61	E0542	N3		20160706_023046	spo	v	v	v	v		-1.5	0.6	19	66	30	21	FD24	600UV		
174	19	E62	E0543	N1		20160706_030557	spo	v		v			0.3	0.4	4.5	74	30	14	FD24	600UV		
175	20	E62	E0544	N3	o	20160706_030836	spo			v	v		-1.1	0.3	12	71	30	16	FD24	600UV		
176	21	E62	E0545	um		20160706_034342	spo			v	v		0.2	0.2	16	73	30	7	FD24	600UV		
177	22	E62	E0546	N3		20160706_040242	PER			v	v		0.2	0.6	17	81	30	8	FD24	600UV		
178	23	E62	E0547	N6		20160706_211053	spo			v	v		-0.2	0.5	5.9	40	30	15	FD24	600UV		
179	24	E63	E0548	N1		20160706_223339	ANT			v	v		0.3	0.4	9.5	46	30	12	FD24	600UV		
180	25	E63	E0549	Fe		20160707_002739	spo			v	v		-0.3	0.3	8.2	57	30	10	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O57	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
181	26		E63	E0550	um		20160707_015157	ANT			v	v		0.5	0.3	14	72	30	11	FD24	600UV		
182	27		E63	E0551	N3		20160707_015821	PCA			v	v		0.4	0.5	10	61	30	16	FD24	600UV		
183	28		E63	E0552	um		20160707_024053	spo			v	v		-0.1	0.1	31	74	30	4	FD24	600UV		
184	29		E63	E0553	N1		20160707_033742	PER	v		v	v		-0.7	0.2	20	84	30	7	FD24	600UV		
185	30		E63	E0554	N3		20160707_033749	spo			v	v		1.5	0.6	3.4	86	30	13	FD24	600UV		
186	31		E63	E0555	N6		20160712_230255	spo	v	v	v			-1.9	2.7	5.2	17	30	81	FD24	600UV		
187	32		E63	E0556	um		20160713_022104	ANT			v	v		0.1	0.2	5.5	23	30	8	FD24	600UV		
188	33		E63	E0557	N1		20160715_002225	spo			v	v		-0.2	0.4	11	29	30	14	FD24	600UV		
189	34		E64	E0558	N3		20160715_020707	PER	v	v				-0.6	0.3	14	32	30	10	FD24	600UV		
190	35		E64	E0559	um		20160715_022036	SDA			v	v		2.1	0.1	5.4	39	30	5	FD24	600UV		
191	36		E64	E0560	um		20160715_023857	SDA			v	v		1	0.3	6.1	33	30	9	FD24	600UV		
192	37		E64	E0561	N3		20160715_040120	spo			v	v		-1.2	0.5	2	9	30	16	FD24	600UV		
193	38		E64	E0562	N3		20160718_002228	ANT			v	v		1	0.2	3.4	6	30	7	FD50	600UV		
194	39		E64	E0563	N6		20160718_013927	spo			v	v	v	-2.4	5.2	8.6	8	30	117	FD50	600UV		
195	40		E64	E0564	N7		20160721_234839	spo			v	v		2.4	1.3	3.8	2	30	39	FD50	600UV		
196	41		E64	E0565	N3		20160726_223053	PER			v			-0.4	0.1	11	14	30	4	FD50	600UV		
197	42		E65	E0566	N6		20160727_011044	CAP			v	v		-0.4	0.4	6	10	30	12	FD50	600UV		
198	43		E65	E0567	N3		20160727_012916	CAP			v	v		0.3	0.4	3.3	12	30	13	FD50	600UV		
199	44		E65	E0568	N3		20160727_024951	CAP			v			2.5	0.3	2	5	30	10	FD50	600UV		
200	45		E65	E0569	N3		20160728_235637	SDA			v	v		0.2	0.4	8.4	44	30	13	FD24	600UV		
201	46		E65	E0570	N1		20160730_032643	SDA			v	v	v	-1.4	0.3	15	34	30	11	FD24	600UV		
202	47		E65	E0571	um		20160730_033241	spo			v	v	v	2.1	0.1	13	38	30	3	FD24	600UV		
203	48		E65	E0572	um		20160730_043015	SDA			v	v		1.7	0.1	4.8	25	30	3	FD24	600UV		
204	49		E65	E0573	um		20160730_234726	SDA			v	v		1	0.1	11	57	30	4	FD24	600UV		
205	50		E65	E0574	u		20160731_000200	CAP			v	v		0	0.4	4.6	55	30	11	FD24	600UV		
206	51		E65	E0575	N0		20160731_001029	SDA			v	v		-0.3	0.2	19	46	30	8	FD24	600UV		
207	52		E65	E0576	N3		20160731_013602	CAP			v			-2.3	0.9	5.7	60	30	28	FD24	600UV		
208	53		E65	E0577	N3		20160731_013607	J5_jug			v			0.6	0.2	4.3	58	30	6	FD24	600UV		
209	54		E66	E0578	N7		20160731_015604	spo			v	v		-0.8	4	3.6	39	30	120	FD24	600UV		
210	55		E66	E0579	N0		20160731_020231	spo	v		v	v		0.2	0.2	20	54	30	6	FD24	600UV		
211	56		E66	E0580	um		20160731_023141	SDA			v	v		2.1	0.1	7.3	57	30	5	FD24	600UV		
212	57		E66	E0581	N3		20160731_025018	CAP			v	v		-1.1	1.4	4.2	46	30	46	FD24	600UV		
213	58		E66	E0582	um		20160731_031231	PER			v	v		0	0.2	25	41	30	6	FD24	600UV		
214	59		E66	E0583	um		20160731_032813	ANT			v	v		2.9	0.1	3.1	45	30	4	FD24	600UV		
215	60		E66	E0584	um		20160731_033629	SDA			v	v		1.7	0.1	4.3	48	30	5	FD24	600UV		
216	61		E66	E0585	N3		20160731_033636	PER	v		v	v		-2.7	0.4	25	51	30	13	FD24	600UV		
217	62		E66	E0586	N0		20160731_033837	SDA			v	v		-0.5	0.5	13	51	30	15	FD24	600UV		
218	63		E66	E0587	um		20160731_040706	SDA			v	v		2.8	0.1	5.6	40	30	3	FD24	600UV		
219	64		E66	E0588	um		20160731_213727	spo			v	v		-0.1	0.1	25	44	30	3	FD24	600UV		
220	65		E67	E0589	um		20160731_235409	ANT			v	v		0.8	0.2	11	58	30	8	FD24	600UV		
221	66		E67	E0590	N0		20160801_001933	SDA			v	v		-1.5	0.4	11	57	30	14	FD24	600UV		
222	67		E67	E0591	N3		20160801_002456	SDA			v	v		1.1	0.3	2.3	56	30	11	FD24	600UV		
223	68		E67	E0592	N3		20160801_005158	CAP			v	v		-1.1	0.3	7.2	52	30	9	FD24	600UV		
224	69		E67	E0593	N3		20160801_023358	spo			v	v		-0.7	0.8	12	43	30	24	FD24	600UV		
225	70		E67	E0594	N1		20160801_024910	SDA			v	v		-0.8	0.4	21	47	30	12	FD24	600UV		
226	71		E67	E0595	N3		20160801_025909	PER	v		v	v		-1.6	0.4	19	44	30	12	FD24	600UV		
227	72		E67	E0596	N1		20160801_032825	spo			v			-1.3	0.3	4.2	49	30	9	FD24	600UV		
228	73		E67	E0597	N3		20160801_035942	spo			v	v		-0.4	0.1	8.5	60	30	4	FD24	600UV		
229	74		E67	E0598	N1		20160801_040730	PER	v		v	v		-0.1	0.2	9.4	58	30	6	FD24	600UV		
230	75		E67	E0599	N3		20160801_043009	SDA			v	v	v	-1.9	0.4	22	46	30	12	FD24	600UV		
231	76		E67	E0600	N1		20160801_043314	spo			v	v		-0.8	0.2	23	44	30	6	FD24	600UV		
232	77		E67	E0601	um		20160801_043348	SDA			v	v		0.6	0.2	13	48	30	9	FD24	600UV		
233	Aug\1		E68	E0602	N3		20160802_232814	PER			v	v		-2.1	0.8	19	18	30	24	FD24	600UV		
234	2		E68	E0603	N3		20160803_020547	PER			v	v		-4	0.5	24	18	30	16	FD24	600UV		
235	3		E68	E0604	um		20160803_031546	SDA			v	v		0.5	0.2	6	22	30	7	FD24	600UV		
236	4		E68	E0605	um		20160803_032115	SDA			v	v		-1.1	0.3	10	19	30	11	FD24	600UV		
237	5		E68	E0606	um		20160803_042338	SDA			v	v		0.1	0.2	6.2	11	30	8	FD24	600UV		
238	6		E68	E0607	N1		20160805_001434	BPI			v	v		-1.1	0.2	19	12	30	6	FD24	600UV		
239	7		E68	E0608	um		20160805_002540	SDA			v	v		-1	0.2	14	7	30	8	FD24	600UV		
240	8		E68	E0609	N3		20160807_231958	KCG			v	v		-0.4	0.4	13	41	30	13	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O557	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
241	9		E68	E0610	N1		20160807_233157	ANT			v			-0.6	0.2	14	37	30	6	FD24	600UV		
242	10		E68	E0611	N1		20160810_002716	SDA			v	v		-0.4	0.2	21	55	30	8	FD24	600UV		
243	11		E68	E0612	N3		20160810_011124	CAP			v	v		-0.9	1.1	4.7	52	30	35	FD24	600UV		
244	12		E68	E0613	N1		20160810_013107	SDA			v	v		-1.5	0.5	17	62	30	15	FD24	600UV		
245	13		E68	E0614	N3		20160810_032806	KCG				v		0	0.1	5.2	47	30	3	FD24	600UV		
246	14		E68	E0615	N3		20160811_001339	ANT			v	v		0.4	0.5	3.6	35	30	15	FD24	600UV		
247	15		E69	E0616	N1		20160811_005123	PAU			v	v		-0.5	0.4	8.8	27	30	12	FD24	600UV		
248	16		E69	E0617	N3		20160811_010521	PER	v		v	v		-2.1	0.8	16	19	30	26	FD24	600UV		
249	17		E69	E0618	N3		20160811_014849	KCG			v	v		-0.2	0.4	8.1	30	30	14	FD24	600UV		
250	18		E69	E0619	N3		20160811_020025	CAP			v	v		-0.6	0.3	11	27	30	10	FD24	600UV		
251	19		E69	E0620	N1		20160811_024136	spo			v	v		-0.9	0.3	9.6	33	30	11	FD24	600UV		
252	20		E69	E0621	N3		20160811_033913	PER	v		v	v		-1.9	0.6	19	43	30	18	FD24	600UV		
253	21		E69	E0622	N1		20160811_222131	CAP			v	v		-1	0.6	5.9	9	30	18	FD24	600UV		
254	22		E69	E0623	N3		20160812_015348	PER	v	v	v			-4.2	0.5	31	20	30	16	FD24	600UV		
255	23		E69	E0624	N3		20160812_045212	PER			v	v		-3	0.3	18	9	30	9	FD24	600UV		
256	24		E69	E0625	N3		20160813_005020	ANT			v	v		-3	1.1	4.7	4	30	35	FD24	600UV		
257	25		E70	E0626	N3		20160813_023045	PER			v	v		-2	0.5	13	3	30	15	FD24	600UV		
258	26		E70	E0627	N1		20160818_031159	BPI			v	v		-2.6	0.4	4.6	1	30	13	FD24	600UV	new grating	
259	27		E70	E0628	um		20160820_033815	ANT			v	v		-2.1	0.1	4.9	1	30	3	FD24	600UV		
260	28		E70	E0629	N3		20160820_221848	KCG			v	v		-0.9	0.8	9	23	30	26	FD24	600UV		
261	29		E70	E0630	N3		20160821_220714	KCG		v	v			1	0.9	4.7	20	30	29	FD24	600UV		
262	30		E70	E0631	um		20160821_222158	spo			v	v		-0.3	0.6	8.9	52	30	19	FD24	600UV		
263	31		E70	E0632	N3		20160821_225612	ANT			v	v		-1	1.2	6.4	38	30	37	FD24	600UV		
264	32		E71	E0633	N1		20160822_023334	BPI			v	v		-0.6	0.3	7.5	57	30	10	FD24	600UV		
265	33		E71	E0634	N3		20160822_040003	spo	v		v	v		-0.9	0.3	14	52	30	9	FD24	600UV		
266	34		E71	E0635	um		20160822_040357	KCG			v	v		1.5	1.1	4.2	54	30	34	FD24	600UV		
267	35		E71	E0636	N3		20160822_041017	spo			v	v		-0.9	0.3	8.9	49	30	9	FD24	600UV		
268	36		E71	E0637	N3		20160830_000127	spo			v			0.5	0.3	6.6	94	30	11	FD24	600UV		
269	37		E71	E0638	N3		20160831_005302	spo			v	v		0.5	1.6	3.1	70	30	50	FD24	600UV		
270	38		E71	E0639	N3		20160831_011524	spo			v			2.6	0.1	2.9	79	30	4	FD24	600UV		
271	39		E71	E0640	N0		20160831_014200	spo		v	v	v		-2.5	0.3	38	79	30	10	FD24	600UV		
272	40		E71	E0641	N1		20160831_032744	J5_nuE	v		v	v		-0.7	0.4	19	54	30	14	FD24	600UV		
273	Sep\1		E72	E0642	N1		20160901_231049	spo			v	v		-1.3	0.9	13	36	30	27	FD24	600UV		
274	2		E72	E0643	um		20160901_231655	AUR			v	v		-1	0.2	16	42	30	7	FD24	600UV		
275	3		E72	E0644	un		20160901_233452	spo		v	v			-0.1	0.2	7.6	44	30	8	FD24	600UV		
276	4		E72	E0645	um		20160906_010536	ANT			v	v		0.1	0.6	9.1	69	30	19	FD24	600UV		
277	5		E72	E0646	N3		20160910_005808	spo			v	v		-0.8	1.1	6.6	28	30	33	FD24	600UV		
278	6		E72	E0647	um		20160911_030514	spo			v	v		-1.7	0.3	17	32	30	10	FD24	600UV		
279	7		E72	E0648	N1		20160911_051347	spo		v	v	v		-0.8	0.9	4	4	30	27	FD24	600UV		
280	8		E72	E0649	N3		20160930_011534	spo			v			-0.9	0.6	8.7	43	30	17	FD24	600UV		
281	9		E72	E0650	um		20160930_013239	spo			v	v		2.3	0.3	47	74	30	3	FD24	600UV		
282	10		E72	E0651	um		20160930_020402	spo			v	v		2.3	0.9	3.7	81	30	28	FD24	600UV		
283	11		E72	E0652	N1		20160930_025224	spo	v		v	v		-1.2	0.3	32	81	30	11	FD24	600UV		
284	12		E73	E0653	N1		20160930_032409	spo			v	v		-1.2	0.4	16	60	30	14	FD24	600UV		
285	13		E73	E0654	um		20161001_005408	spo	v		v	v		-1.1	0.3	25	77	30	10	FD24	600UV		
286	14		E73	E0655	N1		20161001_020028	spo		v	v			-1.9	0.3	34	84	30	11	FD24	600UV		
287	15		E73	E0656	um		20161001_020827	spo	v		v	v		-0.3	0.6	20	75	30	20	FD24	600UV		
288	16		E73	E0657	um		20161001_030942	spo	v		v	v		-0.5	0.3	21	77	30	10	FD24	600UV		
289	17		E73	E0658	um		20161001_034215	spo			v	v		0.3	0.2	12	74	30	7	FD24	600UV		
290	18		E73	E0659	N3		20161001_042145	STA		v	v			-0.7	0.7	10	84	30	21	FD24	600UV		
291	19		E73	E0660	um		20161001_044405	STA			v	v		1.4	0.4	3.8	82	30	11	FD24	600UV		
292	Oct\1		E74	E0661	um		20161005_230040	STA			v	v		0.2	0.6	16	119	30	19	FD24	600UV		
293	2		E74	E0662	N3		20161005_232258	spo		v				0.6	0.2	7.6	108	30	8	FD24	600UV		
294	3		E74	E0663	N1		20161005_233503	NTA			v	v		0.2	0.6	10	114	30	18	FD24	600UV		
295	4		E74	E0664	um		20161006_004357	ANT			v	v		0.1	0.2	11	90	30	8	FD24	600UV		
296	5		E74	E0665	N3		20161006_030013	ANT			v	v		0.9	0.8	2.7	74	30	25	FD24	600UV		
297	6		E74	E0666	um		20161007_012738	spo			v	v		0	0.4	9.6	41	30	9	FD24	600UV		
298	7		E74	E0667	N3		20161007_023455	ANT			v	v		-0.4	0.4	6.3	34	30	14	FD24	600UV		
299	8		E74	E0668	N1		20161010_235932	spo			v	v		-1.2	0.3	16	16	30	9	FD24	600UV		
300	9		E74	E0669	N3		20161011_044608	spo		v	v	v		-2.5	0.6	15	44	30	20	FD24	600UV		

No.	month \count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O557	spe. order					Mag.	Dur. sec.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
									-2	-1	0	1	2									
301	10	E74	E0670	N3		20161018_050826	ORI			v	v		-4	0.2	20	6	30	6	FD24	600UV		
302	11	E74	E0671	N1		20161024_234838	spo			v	v		0.5	0.2	7.6	28	30	8	FD24	600UV		
303	12	E74	E0672	N6		20161025_002405	spo			v	v		0.8	2.2	1.4	17	30	54	FD24	600UV		
304	13	E75	E0673	N1		20161025_012952	ORI	v		v	v		-1.1	0.3	25	55	30	10	FD24	600UV		
305	14	E75	E0674	N3		20161025_021329	ORI	v		v	v		-1.7	0.4	18	45	30	12	FD24	600UV		
306	15	E75	E0675	N1		20161025_021734	LMI			v	v		0.5	0.6	6.7	50	30	18	FD24	600UV		
307	16	E75	E0676	N1		20161025_024748	ORI	v		v	v		-0.5	0.2	21	50	30	6	FD24	600UV		
308	17	E75	E0677	N3		20161025_030106	ORI	v		v	v		-0.5	0.2	18	53	30	8	FD24	600UV		
309	18	E75	E0678	um		20161025_040625	ORI	v		v	v		-0.6	0.1	19	78	30	5	FD24	600UV		
310	19	E76	E0679	N1		20161025_043236	spo	v		v	v		-0.6	0.5	21	99	30	15	FD24	600UV		
311	20	E75	E0680	um		20161025_045819	ORI	v		v	v		0.4	0.2	8.6	103	30	7	FD24	600UV		
312	21	E75	E0681	um		20161025_052920	spo	v		v	v		0.1	0.2	18	87	30	8	FD24	600UV		
313	22	E76	E0682	um		20161025_053723	spo			v	v		-0.4	0.1	24	39	30	5	FD24	600UV	faint	
314	23	E76	E0683	N1		20161026_004016	spo	v		v	v		-2	0.3	41	26	30	11	FD24	600UV		
315	24	E76	E0684	um		20161026_031006	STA			v	v		1.9	0.3	2.3	42	30	9	FD24	600UV		
316	25	E76	E0685	un		20161026_034846	ORI	v		v	v		-0.1	0.1	21	49	30	5	FD24	600UV		
317	26	E76	E0686	um		20161026_035229	ORI	v		v	v		0.3	0.2	17	48	30	7	FD24	600UV		
318	27	E76	E0687	N1		20161026_040035	NTA		v	v	v		-0.9	0.8	4.2	59	30	26	FD24	600UV		
319	28	E77	E0688	um		20161026_044130	spo			v	v		-0.4	0.2	21	61	30	8	FD24	600UV		
320	29	E77	E0689	N1		20161026_044233	spo			v	v		-0.9	0.6	24	60	30	19	FD24	600UV		
321	30	E77	E0690	Fe		20161026_050307	spo			v	v		0.2	0.3	13	72	30	11	FD24	600UV		
322	31	E77	E0691	um		20161026_051241	ORI	v		v	v		0.3	0.2	11	72	30	8	FD24	600UV		
323	32	E77	E0692	N3		20161029_000737	STA		v	v			-0.8	0.3	8.4	4	30	10	FD24	600UV		
324	33	E77	E0693	um		20161029_045153	ORI	v		v	v		0.8	0.1	15	113	30	5	FD24	600UV		
325	34	E77	E0694	um		20161029_052214	ORI	v		v	v		0.7	0.2	9.7	126	30	6	FD24	600UV		
326	35	E77	E0695	N1		20161031_020622	spo			v	v		-0.4	0.1	15	21	30	3	FD24	600UV		
327	36	E77	E0696	um		20161031_031802	STA			v	v		1.2	0.5	2.2	44	30	15	FD24	600UV		
328	37	E77	E0697	N3		20161031_035840	STA			v	v		1.3	0.6	2.2	55	30	20	FD24	600UV		
329	38	E77	E0698	um		20161031_040421	NTA/STA			v	v		1.1	0.8	2.3	59	30	25	FD24	600UV		
330	Nov\1	E78	E0699	Fe		20161102_000805	AND			v	v		-0.1	0.2	7.2	29	30	7	FD24	600UV		
331	2	E78	E0700	N1		20161102_001242	ORI	v		v	v		-2.6	0.4	29	16	30	14	FD24	600UV		
332	3	E78	E0701	N3		20161102_030734	NTA			v	v		-0.2	0.8	7.2	33	30	25	FD24	600UV		
333	4	E78	E0702	um		20161102_031304	spo			v	v		-0.3	0.2	24	43	30	8	FD24	600UV		
334	5	E78	E0703	um		20161102_033244	NTA/STA			v	v		0.9	0.5	4.8	30	30	15	FD24	600UV		
335	6	E78	E0704	um		20161102_034546	NTA/STA			v	v		0.7	0.7	2.1	21	30	21	FD24	600UV		
336	7	E78	E0705	N3		20161103_021228	STA			v	v		-0.3	1.1	6.3	57	30	35	FD24	600UV		
337	8	E78	E0706	un		20161103_025002	spo			v	v		0.2	0.2	27	55	30	8	FD24	600UV		
338	9	E78	E0707	Fe		20161103_033106	spo			v	v		0.9	0.1	1.7	88	30	4	FD24	600UV		
339	10	E79	E0708	N3		20161103_042559	spo	v		v	v		-0.5	0.3	16	111	30	9	FD24	600UV		
340	11	E79	E0709	um		20161103_043030	spo			v	v		0.2	0.1	21	124	30	3	FD24	600UV		
341	12	E79	E0710	um		20161103_050849	spo			v	v		0	0.1	26	126	30	5	FD24	600UV		
342	13	E79	E0711	N3		20161103_051844	LMI	v		v	v		-1.1	0.4	20	115	30	14	FD24	600UV		
343	14	E79	E0712	um		20161103_202540	STA			v	v		0.4	0.4	9	46	30	14	FD24	600UV		
344	15	E79	E0713	N1		20161103_221004	ORI			v	v		-0.9	0.4	14	40	30	13	FD24	600UV		
345	16	E79	E0714	N3		20161103_224947	AND/ STA		v	v			-1.3	0.8	7.1	56	30	26	FD24	600UV		
346	17	E79	E0715	N6		20161103_230620	spo			v	v		0.3	1.3	4	53	30	41	FD24	600UV		
347	18	E80	E0716	N3		20161104_001320	spo			v	v		-0.6	0.8	7.8	47	30	25	FD24	600UV		
348	19	E80	E0717	N3		20161104_011935	NTA			v	v		-1.1	0.8	6.4	34	30	24	FD24	600UV		
349	20	E80	E0718	um		20161104_012610	LEO	v		v	v		-0.3	0.1	28	40	30	5	FD24	600UV		
350	21	E80	E0719	um		20161104_024149	spo	v		v	v		0.1	0.1	15	49	30	5	FD24	600UV		
351	22	E80	E0720	N1		20161104_033639	LEO	v		v	v		-1.4	0.2	32	72	30	8	FD24	600UV		
352	23	E80	E0721	um		20161104_033947	NTA			v	v		0.8	0.6	3.7	63	30	18	FD24	600UV		
353	24	E80	E0722	N6		20161104_224741	spo			v	v		0	1.8	5	39	30	55	FD24	600UV		
354	25	E80	E0723	N6		20161104_231644	spo	v	v	v			-0.5	0.3	4.9	36	30	6	FD24	600UV		
355	26	E80	E0724	N3		20161104_232256	spo			v	v		-0.7	0.5	9.5	32	30	15	FD24	600UV		
356	27	E81	E0725	N3		20161104_234959	NTA			v	v		0.3	0.4	11	30	30	14	FD24	600UV		
357	28	E81	E0726	N3		20161105_003020	STA			v	v		-0.4	0.9	8.4	22	30	28	FD24	600UV		
358	29	E81	E0727	um		20161105_005303	spo	v		v	v		-0.9	0.2	28	23	30	8	FD24	600UV		
359	30	E81	E0728	N3		20161105_013226	spo	v		v	v		-0.5	0.3	20	26	30	9	FD24	600UV		
360	31	E81	E0729	N3		20161105_014807	NTA			v	v		-0.9	1	7.8	28	30	31	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O557	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
361	32		E81	E0730	N3		20161105_015336	NTA			v	v		0	0.7	8	25	30	22	FD24	600UV		
362	33		E81	E0731	N6		20161105_021904	spo			v			0.6	0.3	6.2	26	30	8	FD24	600UV		
363	34		E82	E0732	um		20161105_042323	ORI			v	v		-0.9	0.1	15	13	30	4	FD24	600UV		
364	35		E82	E0733	u		20161105_184056	spo			v	v		0.7	1.9	0.9	28	30	59	FD24	600UV		
365	36		E82	E0734	um		20161105_195921	spo		v	v			0.3	0.7	4.8	31	30	22	FD24	600UV		
366	37		E82	E0735	N1		20161105_211613	NTA			v	v		-0.4	0.4	16	38	30	14	FD24	600UV		
367	38		E82	E0736	N3	o	20161105_215224	NTA			v	v		0.2	1	11	34	30	31	FD24	600UV		
368	39		E82	E0737	um		20161105_234741	spo			v	v		0.4	0.1	17	37	30	4	FD24	600UV		
369	40		E82	E0738	N3		20161105_235349	NTA			v	v		-1.1	0.7	12	35	30	23	FD24	600UV		
370	41		E83	E0739	N1		20161106_005019	spo	v		v	v		-1	0.5	21	41	30	16	FD24	600UV		
371	42		E83	E0740	N1		20161106_033847	NTA			v	v		1	0.6	4.2	56	30	20	FD24	600UV		
372	43		E83	E0741	N6	o	20161106_191620	NTA /AND			v	v		-0.8	0.5	10	20	30	17	FD24	600UV		
373	44		E83	E0742	N3		20161106_234651	spo			v	v		-0.7	1.4	9.8	23	30	41	FD24	600UV		
374	45		E83	E0743	N1		20161107_023942	NTA			v	v		0.4	0.3	6.6	24	30	11	FD24	600UV		
375	46		E83	E0744	um		20161107_032501	STA			v	v		1	0.4	4.4	38	30	12	FD24	600UV		
376	47		E83	E0745	um		20161107_034439	spo			v	v		0.1	0.1	23	52	30	3	FD24	600UV		
377	48		E83	E0746	um		20161111_003559	AND		v	v			0.3	0.3	4.1	21	30	9	FD24	600UV		
378	49		E83	E0747	um		20161111_013004	STA			v	v		0.6	0.3	4.2	37	30	11	FD24	600UV		
379	50		E83	E0748	Fe		20161111_013923	AND			v	v		0.1	0.3	5.7	43	30	10	FD24	600UV		
380	51		E83	E0749	um		20161111_015938	STA			v	v		1.2	0.4	2.8	37	30	12	FD24	600UV		
381	52		E83	E0750	un		20161111_030404	spo			v	v		0.4	0.3	4.2	65	30	10	FD24	600UV		
382	53		E84	E0751	N3		20161111_030522	spo			v	v		-2.4	0.2	29	69	30	7	FD24	600UV		
383	54		E84	E0752	N3		20161111_035129	STA			v	v		-0.6	0.9	7.6	71	30	28	FD24	600UV		
384	55		E84	E0753	N1		20161111_045214	spo			v	v		1	0.3	3.6	116	30	10	FD24	600UV		
385	56		E84	E0754	N1		20161111_050634	spo		v	v			-0.4	0.1	18	123	30	5	FD24	600UV		
386	57		E84	E0755	N0		20161111_050743	spo	v		v	v		-0.6	0.2	26	122	30	8	FD24	600UV		
387	58		E84	E0756	um		20161111_053738	spo	v		v	v		0.1	0.3	10	99	30	9	FD24	600UV		
388	59		E84	E0757	um		20161112_005443	spo			v	v		0.7	0.3	5.2	16	30	9	FD24	600UV		
389	60		E84	E0758	N3		20161112_013819	NTA		v	v			-1.3	0.2	8.6	20	30	6	FD24	600UV		
390	61		E84	E0759	N1		20161112_035639	spo			v	v		-2	0.3	28	91	30	11	FD24	600UV		
391	62		E84	E0760	um		20161112_042115	spo	v		v	v		0	0.1	18	92	30	5	FD24	600UV		
392	63		E84	E0761	N3		20161112_044859	spo	v		v	v		-0.7	0.3	16	99	30	10	FD24	600UV		
393	64		E85	E0762	N3		20161112_054649	spo		v	v			-0.2	1.5	2.9	46	30	45	FD24	600UV		
394	65		E85	E0763	u		20161113_025601	HYD			v	v		-1.8	0.1	20	4	30	3	FD24	600UV	cloud	
395	66		E85	E0764	un		20161113_034017	spo			v	v		-1.2	0.1	32	36	30	4	FD24	600UV		
396	67		E85	E0765	N3		20161117_011748	spo			v	v	v	-0.5	1.3	6.6	14	30	45	FD24	600UV		
397	68		E85	E0766	N3		20161117_012531	STA			v	v		-1.5	0.8	3.8	8	30	25	FD24	600UV		
398	69		E85	E0767	um		20161117_032312	HYD	v		v	v		-1.5	0.1	22	11	30	5	FD24	600UV		
399	70		E85	E0768	N3		20161119_221014	NOO			v	v		-0.6	0.9	12	33	30	27	FD24	600UV		
400	71		E86	E0769	N1		20161119_231305	J5_oEr			v	v		-0.2	0.1	6	22	30	4	FD24	600UV		
401	72		E86	E0770	um		20161120_013020	STA			v	v		0.6	0.6	6	42	30	18	FD24	600UV		
402	73		E86	E0771	N3		20161120_014539	spo		v	v			0.7	0.6	5	44	30	20	FD24	600UV		
403	74		E86	E0772	N3		20161120_025318	LEO	v		v	v		-2	0.3	25	60	30	9	FD24	600UV		
404	75		E86	E0773	N3		20161120_035734	STA			v	v		-0.8	0.9	1.7	76	30	27	FD24	600UV		
405	76		E86	E0774	N1		20161120_054857	DAD			v	v		-1	0.3	17	18	30	10	FD24	600UV		
406	77		E86	E0775	N1		20161123_000629	spo			v	v		-0.2	0.5	6.9	34	30	15	FD24	600UV		
407	78		E86	E0776	um		20161123_003454	NOO			v	v		0.3	0.1	14	37	30	5	FD24	600UV		
408	79		E86	E0777	um		20161123_003545	NOO			v	v		0.4	0.1	17	40	30	4	FD24	600UV		
409	80		E86	E0778	N3		20161123_024823	spo			v	v		-1.3	1	8.9	79	30	31	FD24	600UV		
410	81		E86	E0779	N1		20161123_041035	HYD			v	v		0.4	0.1	15	104	30	5	FD24	600UV		
411	82		E86	E0780	N6		20161124_183640	spo			v	v		-4						FD24	600UV		
412	83		E87	E0781	N6		20161124_194517	NTA		v	v	v		-1.7	2.4	3.9	44	30	73	FD24	600UV		
413	84		E87	E0782	um		20161124_225906	J5_oEr			v	v		0.8	0.1	7	52	30	4	FD24	600UV		
414	85		E87	E0783	un		20161125_000247	spo			v	v		1.5	0.6	0.8	33	30	15	FD24	600UV		
415	86		E87	E0784	N7		20161125_000724	NTA			v	v		0	1.3	3.5	31	30	39	FD24	600UV		
416	87		E87	E0785	N3		20161125_010213	NTA			v	v		-1.6	0.7	12	43	30	21	FD24	600UV		
417	88		E87	E0786	N1		20161125_023359	spo			v	v		0.3	0.5	17	83	30	15	FD24	600UV		
418	89		E87	E0787	N1		20161125_030145	LEO	v		v	v		-0.7	0.2	23	93	30	7	FD24	600UV		
419	90		E87	E0788	N1		20161125_031152	NTA /STA			v	v		-0.4	0.5	8.4	93	30	16	FD24	600UV		
420	91		E87	E0789	um		20161125_033621	NTA			v	v		1.4	0.4	4	99	30	11	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O57	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
421	92		E88	E0790	N3		20161125_034037	J5_oEr			v	v		1.3	0.8	3.4	99	30	26	FD24	600UV		
422	93		E88	E0791	N1		20161125_042149	spo	v		v	v		-0.5	0.3	13	110	30	9	FD24	600UV		
423	94		E88	E0792	N3		20161125_042839	spo	v		v	v		-1.5	0.3	10	106	30	11	FD24	600UV		
424	95		E88	E0793	N3		20161125_044312	DAD	v		v	v		-1.1	0.2	24	100	30	6	FD24	600UV		
425	96		E88	E0794	N3		20161125_060710	NTA		v	v			-1.3	0.5	10	13	30	17	FD24	600UV		
426	97		E88	E0795	N3		20161125_212834	NTA			v	v		-2.8	1.7	9.9	43	30	53	FD24	600UV		
427	98		E88	E0796	N6		20161125_224031	NTA		v	v			1.4	0.1	4.7	41	30	5	FD24	600UV		
428	99		E89	E0797	N1		20161128_232020	GEM			v	v		-0.6	0.3	17	29	30	10	FD24	600UV		
429	100		E89	E0798	u		20161128_235228	spo			v	v		0.7	0.2	5.1	23	30	8	FD24	600UV		
430	101		E89	E0799	N3		20161129_024006	J5_tPy	v		v	v		-0.6	0.4	14	71	30	13	FD24	600UV		
431	102		E89	E0800	N3		20161129_045617	HYD			v			1.2	0.5	1.1	49	30	3	FD24	600UV		
432	103		E89	E0801	N3		20161129_054059	HYD			v	v		1.2	0.3	5.1	44	30	10	FD24	600UV		
433	104		E89	E0802	N3		20161130_010003	spo			v	v		0	0.6	1.7	12	30	19	FD24	600UV		
434	105		E89	E0803	N3		20161130_031644	HYD	v	v	v	v		-3.6	0.5	28	18	30	16	FD24	600UV	int.spe.	
435	106		E89	E0804	N1		20161130_043427	GEM			v	v		-0.2	0.3	7.3	8	30	8	FD24	600UV		
436	107		E89	E0805	um		20161130_061308	HYD			v	v		-0.6	0.3	11	6	30	11	FD24	600UV		
437	Dec\1		E90	E0806	N3		20161203_011138	NTA/STA			v	v		-4	0.9	5.8	25	30	27	FD24	600UV	> -4	
438	2		E90	E0807	N1		20161203_023829	HYD	v		v	v		-1.1	0.3	18	70	30	10	FD24	600UV		
439	3		E90	E0808	N3		20161203_043555	HYD			v	v		0	0.1	17	45	30	5	FD24	600UV		
440	4		E90	E0809	N3		20161203_050237	STA			v	v		-1.1	2.2	7.3	43	30	68	FD24	600UV		
441	5		E90	E0810	N3		20161203_054330	GEM			v	v		0.2	0.4	7.7	42	30	13	FD24	600UV		
442	6		E90	E0811	N3		20161204_003358	ANT/ GEM			v	v		-0.2	0.1	9.5	0	30	5	FD24	600UV		
443	7		E90	E0812	N1		20161206_234808	GEM			v	v		-1.7	0.9	10	32	30	28	FD24	600UV		
444	8		E91	E0813	um		20161207_001753	COM			v	v		0.2	0.1	21	41	30	5	FD24	600UV		
445	9		E91	E0814	um		20161207_004018	GEM			v	v		0.7	0.2	10	40	30	7	FD24	600UV		
446	10		E91	E0815	um		20161207_004439	ANT			v	v		0.3	0.4	9.1	32	30	12	FD24	600UV		
447	11		E91	E0816	um		20161207_012556	COM	v		v	v		-0.3	0.4	24	68	30	13	FD24	600UV		
448	12		E91	E0817	N3		20161207_012900	HYD			v	v		-0.8	0.4	22	63	30	13	FD24	600UV		
449	13		E91	E0818	um		20161207_014733	spo			v	v								FD24	600UV		
450	14		E91	E0819	um		20161207_015435	GEM			v	v		0.8	0.4	6.3	73	30	13	FD24	600UV		
451	15		E91	E0820	N1		20161207_020454	J5_xVi	v		v	v		-0.8	0.3	24	85	30	9	FD24	600UV		
452	16		E92	E0821	N1		20161207_022515	spo			v	v		0.5	0.3	6.3	94	30	10	FD24	600UV		
453	17		E92	E0822	N3		20161207_023635	NTA			v			1.7	0.1	7	90	30	4	FD24	600UV		
454	18		E92	E0823	N3		20161207_024514	J5_psU	v		v	v		-2.2	0.3	23	72	30	11	FD24	600UV		
455	19		E92	E0824	N3		20161207_033804	COM	v		v	v		-0.8	0.1	23	102	30	5	FD24	600UV		
456	20		E92	E0825	N3		20161207_034233	spo			v	v		0.4	0.7	14	98	30	20	FD24	600UV		
457	21		E92	E0826	um		20161207_043937	NOO			v	v		1.2	0.2	5.7	75	30	6	FD24	600UV		
458	22		E92	E0827	um		20161207_061424	HYD			v	v		-0.4	0.4	6.4	9	30	13	FD24	600UV		
459	23		E92	E0828	Fe		20161207_225922	spo			v	v		-0.3	0.3	5.3	23	30	9	FD24	600UV		
460	24		E92	E0829	Fe		20161207_235422	spo			v	v		-0.4	0.3	5.1	40	30	10	FD24	600UV		
461	25		E92	E0830	um		20161208_000955	GEM			v	v		0.2	0.4	10	42	30	13	FD24	600UV		
462	26		E92	E0831	N3		20161208_002009	spo		v	v	v		-2.6	1.8	5.1	44	30	56	FD24	600UV		
463	27		E93	E0832	N1		20161208_002426	spo	v		v	v		-0.8	0.4	30	42	30	12	FD24	600UV		
464	28		E93	E0833	N6		20161208_004640	STA		v	v	v		-0.6	1.4	7.3	57	30	42	FD24	600UV		
465	29		E93	E0834	um		20161208_023324	J5_xVi			v	v		-0.3	0.3	11	55	30	10	FD24	600UV		
466	30		E93	E0835	um		20161208_023947	MON			v	v		-0.3	0.3	9.5	40	30	9	FD24	600UV		
467	31		E93	E0836	N1		20161208_025409	MON			v	v		-1.5	0.4	11	43	30	13	FD24	600UV		
468	32		E93	E0837	N3		20161208_030140	spo		v	v			-4.8	1.1	11	25	30	67	FD24	600UV		
469	33		E93	E0838	N0		20161208_050938	GEM			v	v		-0.9	0.5	4.6	33	30	17	FD24	600UV		
470	34		E93	E0839	um		20161208_052418	GEM			v	v		0.6	0.3	4.8	34	30	9	FD24	600UV		
471	35		E93	E0840	N3		20161208_230110	HYD			v	v		-1.3	0.3	17	1	30	9	FD24	600UV		
472	36		E93	E0841	N3		20161209_031618	spo			v	v		0.6	0.8	7.9	102	30	24	FD24	600UV		
473	37		E93	E0842	N3		20161209_033229	NTA		v	v			-1.2	1.2	2.4	97	30	38	FD24	600UV		
474	38		E94	E0843	um		20161209_034007	GEM			v	v		0	0.4	8.3	94	30	13	FD24	600UV		
475	39		E94	E0844	N1		20161209_042411	GEM			v	v		-1.1	0.7	7.5	77	30	20	FD24	600UV		
476	40		E94	E0845	um		20161209_044503	GEM			v	v		0.5	0.3	9.8	59	30	9	FD24	600UV		
477	41		E94	E0846	um		20161209_062152	COM			v	v		-0.8	0.2	14	8	30	7	FD24	600UV		
478	42		E94	E0847	N3		20161209_230138	GEM			v	v		-1.7	0.4	9.5	11	30	14	FD24	600UV		
479	43		E94	E0848	um		20161209_231930	GEM			v	v		-0.3	0.4	13	18	30	12	FD24	600UV		
480	44		E94	E0849	Fe		20161209_233308	NOO			v	v		0	0.3	6.3	16	30	9	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O557	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note
										-2	-1	0	1	2									
481	45		E94	E0850	N3		20161209_234753	GEM			v	v		0.3	0.2	8.5	19	30	7	FD24	600UV		
482	46		E94	E0851	um		20161210_005135	GEM			v	v		0.4	0.1	15	33	30	4	FD24	600UV		
483	47		E94	E0852	N1		20161210_012949	GEM				v		-0.5	0.3	11	56	30	11	FD24	600UV		
484	48		E94	E0853	N3		20161210_022156	STA			v	v		0.9	0.6	6.4	76	30	20	FD24	600UV		
485	49		E94	E0854	N1		20161210_032030	spo			v	v		-0.5	1.3	15	89	30	41	FD24	600UV		
486	50		E94	E0855	um		20161210_035818	MON			v	v		0.7	0.3	3.8	88	30	11	FD24	600UV		
487	51		E94	E0856	um		20161210_050247	GEM			v	v		0.4	0.4	6.5	67	30	13	FD24	600UV		
488	52		E95	E0857	N1		20161210_050941	GEM			v	v		0	0.4	5	62	30	14	FD24	600UV		
489	53		E95	E0858	N3		20161210_231815	ANT		v	v			-2.4	0.4	7.5	4	30	12	FD24	600UV		
490	54		E95	E0859	N3		20161210_232031	GEM			v	v		-3	1.2	14	4	30	36	FD24	600UV		
491	55		E95	E0860	N3		20161211_011513	NTA			v	v	v	0.6	1	1.8	21	30	32	FD24	600UV		
492	56		E95	E0861	N3		20161211_013136	NOO			v	v	v	-2	0.1	7.5	23	30	5	FD24	600UV		
493	57		E95	E0862	N3		20161211_021324	NTA			v	v		0.8	0.8	2.2	42	30	24	FD24	600UV		
494	58		E95	E0863	um		20161211_023049	spo			v	v		-0.8	0.2	32	51	30	6	FD24	600UV		
495	59		E95	E0864	um		20161211_030050	GEM			v	v		0.2	0.1	9.8	60	30	5	FD24	600UV		
496	60		E95	E0865	um		20161211_030908	GEM			v	v		0.4	0.2	8.9	70	30	7	FD24	600UV		
497	61		E96	E0866	N1		20161211_031802	GEM			v	v		-1	0.6	9.6	81	30	18	FD24	600UV		
498	62		E96	E0867	N3		20161211_040457	spo			v	v		0.2	1.3	4.2	65	30	38	FD24	600UV		
499	63		E96	E0868	N3	o	20161211_042624	spo	v		v	v		-1.8	0.2	19	39	30	6	FD24	600UV		
500	64		E96	E0869	um		20161211_044203	GEM			v	v		-0.5	0.2	8.4	23	30	7	FD24	600UV		
501	65		E96	E0870	un		20161211_054213	GEM			v	v		0.7	0.3	2.4	33	30	10	FD24	600UV		
502	66		E96	E0871	um		20161211_220856	GEM			v	v		-0.2	0.2	16	12	30	7	FD24	600UV		
503	67		E96	E0872	N1	o	20161211_230945	GEM			v	v		-1.7	0.6	21	15	30	19	FD24	600UV		
504	68		E96	E0873	N1		20161211_235415	GEM			v	v		-0.6	0.3	11	15	30	10	FD24	600UV		
505	69		E96	E0874	N3		20161212_003633	ANT/ GEM			v			-2	0.2	11	8	30	7	FD24	600UV		
506	70		E97	E0875	N1		20161212_022531	GEM			v	v		-4	0.7	11	2	30	23	FD24	600UV		
507	71		E97	E0876	N3		20161212_044510	J5_xvi	v		v	v		-2	0.4	17	43	30	12	FD24	600UV		
508	72		E97	E0877	N1		20161212_054128	GEM			v	v		0.1	0.6	6.9	31	30	20	FD24	600UV		
509	73		E97	E0878	N3		20161213_232754	ANT			v	v		-2	0.8	13	2	30	25	FD24	600UV		
510	74		E97	E0879	um		20161213_233317	GEM			v	v		0.5	0.1	9.8	6	30	5	FD24	600UV	cloud	
511	75		E97	E0880	um		20161214_000617	GEM			v	v		0.2	0.5	17	11	30	18	FD24	600UV		
512	76		E97	E0881	um		20161214_001648	GEM			v	v		-0.6	0.3	23	11	30	11	FD24	600UV	faint	
513	77		E97	E0882	um		20161214_002226	GEM			v	v		-0.3	0.2	12	14	30	7	FD24	600UV		
514	78		E98	E0883	um		20161214_002356	GEM			v	v		0.2	0.2	16	14	30	6	FD24	600UV		
515	79		E98	E0884	um		20161214_002835	GEM			v	v		-0.6	0.4	15	9	30	13	FD24	600UV		
516	80		E98	E0885	N1		20161214_010015	GEM		v	v	v		-2	0.4	15	11	30	14	FD24	600UV	cloud	
517	81		E98	E0886	N1		20161214_010532	GEM			v	v		-2.2	0.7	14	8	30	21	FD24	600UV	cloud	
518	82		E98	E0887	um		20161214_021013	GEM			v	v		-1.9	0.2	13	5	30	7	FD24	600UV	cloud	
519	83		E98	E0888	N1		20161214_022035	GEM			v	v		-0.2	0.3	9.9	5	30	11	FD24	600UV	cloud	
520	84		E98	E0889	um		20161214_023723	GEM			v	v		-0.9	0.2	8.9	3	30	7	FD24	600UV		
521	85		E98	E0890	un		20161214_024003	GEM			v	v		-1.4	0.2	12	3	30	6	FD24	600UV	cloud	
522	86		E98	E0891	um		20161214_041151	GEM			v	v		-1	0.3	8.2	10	30	10	FD24	600UV		
523	87		E99	E0892	um		20161214_043303	GEM			v	v		-0.1	0.2	5.5	9	30	7	FD24	600UV		
524	88		E99	E0893	N3		20161214_043709	spo		v	v	v		-4.3	0.3	35	8	30	11	FD24	600UV		
525	89		E99	E0894	um		20161214_051300	spo			v	v		-1.2	0.1	3.3	8	30	4	FD24	600UV		
526	90		E99	E0895	um		20161214_052101	GEM			v	v		-0.6	0.5	6	9	30	17	FD24	600UV		
527	91		E99	E0896	um		20161214_061438	GEM			v	v		-0.7	0.9	7.5	5	30	21	FD24	600UV		
528	92		E99	E0897	N3		20161214_194802	spo			v	v		-1.1	0.7	10	17	30	23	FD24	600UV		
529	93		E99	E0898	um		20161214_200833	GEM			v	v		-0.7	1.2	11	15	30	35	FD24	600UV		
530	94		E99	E0899	um		20161214_212402	GEM			v	v		-0.5	0.9	8.8	11	30	28	FD24	600UV		
531	95		E99	E0900	N1		20161214_214304	GEM			v	v		-0.2	0.3	6.8	11	30	11	FD24	600UV		
532	96		E100	E0901	N3		20161214_214523	GEM		v	v			-0.3	0.2	8.1	10	30	6	FD24	600UV		
533	97		E100	E0902	um		20161214_220026	GEM			v	v		0	0.3	14	12	30	11	FD24	600UV		
534	98		E100	E0903	um		20161214_221938	GEM			v	v		0	0.2	14	9	30	8	FD24	600UV		
535	99		E100	E0904	um		20161214_222942	GEM			v	v		-0.5	0.3	11	8	30	9	FD24	600UV		
536	100		E100	E0905	N1		20161214_224831	GEM			v	v		-1.3	0.5	21	13	30	16	FD24	600UV		
537	101		E100	E0906	um		20161214_225028	GEM			v	v		-0.2	0.3	17	16	30	9	FD24	600UV		
538	102		E100	E0907	N3		20161214_225137	GEM		v	v	v		-3.9	0.3	27	24	30	9	FD24	600UV		
539	103		E100	E0908	um		20161214_230538	GEM			v	v		0	0.1	11	17	30	5	FD24	600UV		
540	104		E101	E0909	N3		20161214_232448	GEM			v	v		-1.7	0.6	16	15	30	18	FD24	600UV		

No.	month	count	Catalog page	ID	spe. type	unusual light curve	Local Time (JST) UT=JST-9h	shower	O557	spe. order					Mag.	Dur.	Ave. Vel. deg/s	ref. star	FPS	sN	lens mm	grating	note	
										-2	-1	0	1	2										
541	105		E101	E0910	um		20161214_233047	GEM			v	v			-1.2	0.2	18	18	30	6	FD24	600UV		
542	106		E101	E0911	N3		20161214_234002	ANT			v	v			-1.8	0.6	8.8	13	30	14	FD24	600UV		
543	107		E101	E0912	N1		20161215_001327	GEM			v	v									still	FD24	600UV	
544	108		E101	E0913	um		20161215_001644	STA			v	v			-0.1	0.3	7.4	18	30	10	FD24	600UV		
545	109		E101	E0914	um		20161215_001749	GEM			v	v			0	0.1	17	20	30	4	FD24	600UV		
546	110		E101	E0915	N1		20161215_001929	COM	v		v	v			-1.3	0.3	19	19	30	10	FD24	600UV		
547	111		E101	E0916	um		20161215_002105	GEM		v	v				-0.9	0.5	12	20	30	15	FD24	600UV		
548	112		E102	E0917	um		20161215_002330	HYD/MON			v	v			-0.6	0.5	19	16	30	16	FD24	600UV		
549	113		E102	E0918	um		20161215_002545	MON/HYD			v	v			-0.1	0.3	15	19	30	10	FD24	600UV		
550	114		E102	E0919	um		20161215_004228	GEM			v	v			0	0.2	15	21	30	7	FD24	600UV		
551	115		E102	E0920	um		20161215_004800	GEM		v	v				-2.1	0.7	16	22	30	21	FD24	600UV		
552	116		E102	E0921	N3		20161215_005143	ANT			v				0.1	0.3	4.6	23	30	11	FD24	600UV		
553	117		E102	E0922	N3		20161215_005234	GEM			v	v	v		-3.2	0.2	18	19	30	8	FD24	600UV		
554	118		E102	E0923	un		20161215_005441	STA		v	v				0.5	0.1	6.6	12	30	5	FD24	600UV		
555	119		E102	E0924	N3		20161215_005817	GEM	v	v					0.5	0.2	11	21	30	6	FD24	600UV		
556	120		E103	E0925	N1	o	20161215_010643	GEM	v	v	v				-1.4	0.2	12	18	30	7	FD24	600UV		
557	121		E103	E0926	um		20161215_011340	GEM			v	v			-0.6	0.1	14	12	30	5	FD24	600UV		
558	122		E103	E0927	N1		20161215_011746	GEM			v	v			-1.4	0.5	14	18	30	15	FD24	600UV		
559	123		E103	E0928	um		20161216_031551	spo			v	v									still	FD24	600UV	
560	124		E103	E0929	N1		20161216_041939	GEM			v	v									still	FD24	600UV	
561	125		E103	E0930	um		20161216_211017	MON/HYD			v	v			0.3	0.5	15	36	30	17	FD24	600UV		
562	126		E103	E0931	um		20161216_233435	GEM			v	v			0.6	0.5	11	43	30	15	FD24	600UV		
563	127		E103	E0932	N6		20161216_235601	ANT			v				0.9	0.1	6.1	40	30	3	FD24	600UV		
564	128		E104	E0933	N1		20161217_003116	GEM		v	v	v			-1.8	0.6	16	48	30	20	FD24	600UV		
565	129		E104	E0934	um		20161217_010647	GEM			v	v			1	0.1	5	56	30	4	FD24	600UV		
566	130		E104	E0935	N3		20161217_013402	GEM	v	v					-2.6	3	6.2	63	30	92	FD24	600UV		
567	131		E104	E0936	N0		20161217_014743	spo	v	v	v	v			-2.6	0.5	31	75	30	17	FD24	600UV		
568	132		E104	E0937	um		20161217_015228	spo			v	v			1.2	1.1	4.5	72	30	34	FD24	600UV		
569	133		E105	E0938	N3		20161217_045439	spo			v	v	v		-2.3	10	1.7	34	30	319	FD24	600UV		
570	134		E104	E0939	N3		20161217_050808	spo	v	v					-0.4	0.2	12	25	30	6	FD24	600UV		
571	135		E105	E0940	N1		20161217_053411	HYD			v	v			-0.2	0.4	7.5	26	30	14	FD24	600UV		
572	136		E105	E0941	N1		20161217_061922	spo			v	v			-0.7	0.3	11	15	30	10	FD24	600UV		
573	137		E105	E0942	N3		20161218_214853	ANT			v	v			-2.3	0.9	5	15	30	28	FD24	600UV		
574	138		E106	E0943	N3		20161218_220915	STA			v	v			-1.3	0.7	14	6	30	21	FD24	600UV		
575	139		E106	E0944	Fe		20161219_005544	GEM			v	v			-1.1	0.2	15	52	30	6	FD24	600UV		
576	140		E106	E0945	N3		20161219_034315	ANT			v	v			-0.4	1.1	5.1	50	30	33	FD24	600UV		
577	141		E106	E0946	Fe		20161219_035430	DAD			v	v			-1.7	0.4	18	50	30	14	FD24	600UV		
578	142		E106	E0947	um		20161219_054633	COM			v	v			-0.6	0.2	18	14	30	6	FD24	600UV		
579	143		E106	E0948	um		20161219_054945	DAD			v	v			-0.8	0.5	13	16	30	15	FD24	600UV		
580	144		E106	E0949	N1		20161223_031804	AHY		v	v				0.2	0.4	14	70	30	13	FD24	600UV		
581	145		E106	E0950	um		20161223_061826	spo			v	v			-1	0.1	18	13	30	5	FD24	600UV		
582	146		E106	E0951	N3		20161223_215929	spo			v	v	v								still	FD24	600UV	
583	147		E106	E0952	N3		20161224_050632	spo	v		v				0.3	0.1	4.6	31	30	3	FD24	600UV		
584	148		E107	E0953	N3		20161225_030128	HYD	v		v				-1.3	0.5	8.5	34	30	15	FD85	600UV	good	
585	149		E107	E0954	Fe		20161228_022758	spo			v				1	0.1	9.9	99	30	5	FD85	600UV		
586	150		E107	E0955	N1		20161228_041103	spo			v				-0.5	0.1	17	76	30	5	FD85	600UV		
587	151		E107	E0956	N7		20161228_044331	ANT		v	v				1.1	1	5.7	97	30	30	FD85	600UV		