HE   4K Video spectra of 2015   Koji Maeda   at Miyazaki, Japan

page	No.	spe. Code	unusual light curve	LocalTime(JST)	shower	0557	-2	-1	0	1	2	Mag	Dur(s) sec.	Avera deg/s	FPS	lens mm
JULY (1)	E0001	N3		20150728_004626	CAP				x	x		-0.2	0.5	7.6	24	FD24
	E0002	N0		20150728_012130	SDA /CAP				x	x		-0.5	0.5	4.9	24	FD24
	E0003	um		20150729_010535	spo				x	x		-0.5	0.5	3.8	24	FD24
	E0004	um		20150729_040518	SDA				x	x		-0.2	0.2	14	24	FD24
	E0005	N3		20150729_230352	CAP			x	x	x		-1.2	0.9	3.5	24	FD24
	E0006	N3		20150729_233324	CAP				x	x	x	-1.9	1.4	3	24	FD24
	E0007	N3		20150730_031554	CAP				x	x		-0.9	1	6.8	24	FD24
	E0008	um		20150730_035414	spo				x	x		-0.3	0.4	16	24	FD24
	E0009	um		20150730_035442	PER	v			x	x		0.2	0.3	5.6	24	FD24
	E0010	um		20150730_040741	spo				x	x		-0.2	0.7	6.9	24	FD24
	E0011	N3		20150730_044007	PER			x	x	x		-2.7	0.5	22	24	FD24
	E0012	N3		20150730_234524	ANT				x	x		-0.3	1.7	3.3	24	FD24
	E0013	N3		20150731_023340	ANT				x	x		-0.9	0.5	3.9	24	FD24
	E0014	u		20150731_043104	spo				x	x		-2.7	0.4	16	24	FD24
AUG (1)	E0015	N3		20150802_231126	SDA				x	x		-2.1	0.4	7.9	24	FD24
	E0016	N3		20150802_235535	CAP				x	x		-1.5	1	2.4	24	FD24
	E0017	N3		20150803_015501	CAP /ANT				x	x		-2.4	1	4.5	24	FD24
AUG (4)	E0018	N3		20150805_021305	spo				x	x						50
	E0019	N3		20150805_022913	ERI				x	x		0	0.3	21	24	50
	E0020	N6		20150812_005451	spo				x	x		0.8	0.9	6.1	24	50
	E0021	N3		20150812_015245	PER	v			x	x						50
	E0022	N3		20150812_043642	PER	v			x	x						50
	E0023	N3		20150812_0436	PER	v			x							50
AUG (5)	E0024	N1		20150813_033141	PER	v			x	x						50
	E0025	um		20150813_033336	spo	v			x	x						50
	E0026	um		20150813_035108	PER	v			x	x						50
	E0027	um		20150813_043600	PER	v			x	x		0.2	0.2	0.5	24	50
	E0028	N3		20150813_045659	PER			x	x			-1.9	0.4	18	24	50
AUG (6)	E0029	N3		20150813_230141	PER	v			x	x						50
	E0030	N3		20150814_013834	PER	v			x	x		-1.6	0.5	34	12	50
	E0031	N3		20150814_020927	PER	v				x		0.2	0.2	1.8	12	50
	E0032	N3		20150814_022306	PER	v			x	x		0.5	0.2	0.5	12	50
	E0033	N3		20150814_022942	PER	v			x	x						50
	E0034	N3		20150814_033335	PER	v		x	x			-1.7	0.8	15	12	50
(5)	E0035	N3		20150814_040200	PER	v			x	x		-0.8	0.4	11	12	50
AUG (1)	E0036	um		20150815_013434	PER	v			x	x		-1.2	0.4	20	24	FD24
	E0037	um		20150815_024709	PER	v			x	x		-1.9	0.3	23	24	FD24
	E0038	N3		20150815_031200	ANT			x	x	x		-2.4	0.3	1.1	24	FD24
	E0039	N3		20150815_033540	PER	v			x	x		-2.2	0.4	16	24	FD24
	E0040	N3		20150819_222904	spo				x	x		-0.5	0.7	6.5	12	FD24
	E0041	N3		20150820_014710	J5_bPi				x	x		-0.5	0.6	4	12	FD24
	E0042	N3		20150820_022110	spo					x	x	-1.5	1	8.9	12	FD24
AUG (2)	E0043	N1		20150820_215443	PER	v			x	x		-2.2	1.6	14	12	FD24
	E0044	N3		20150821_035628	ERI	v			x	x		-1.8	0.3	14	12	FD24
	E0045	um		20150821_044224	PER	v			x	x		-0.6	0.2	17	12	FD24
	E0046	N6		20150821_213441	ANT			x	x			-0.8	2.3	5.1	12	FD24

Month	ID	Type	Flag	Datetime	Source	v	X1	X2	X3	X4					Inst
(2)	E0047	N3		20150821_230708	spo				x	x	-0.8	1.3	1.8	12	FD24
	E0048	N3		20150823_021955	ANT				x	x	0.2	0.8	7.6	30	FD24
	E0049	N1		20150823_022052	spo				x	x	-0.9	0.7	12	30	FD24
AUG (3)	E0050	N3		20150823_034316	PER	v			x	x	-1.9	0.4	13	30	FD24
	E0051	N3		20150826_020044	PER			x	x	x	-2.4	0.7	24	30	FD24
	E0052	N3	o	20150826_034908	spo	v			x	x	0	0.4	3.2	30	FD24
	E0053	N3		20150826_041044	spo	v			x	x	-0.7	0.4	13	30	FD24
	E0054	u		20150827_021040	spo				x	x	-1.5	1	37	30	FD24
	E0055	N0		20150827_025044	spo				x	x	-1	0.1	22	30	FD24
	E0056	N1		20150827_040640	J5_bPi				x	x	-1	0.6	9.3	30	FD24
	E0057	N3		20150828_002946	KCG				x	x	-2.2	0.6	13	30	FD24
	E0058	N1		20150828_005917	ANT				x	x	-1	0.5	5.3	30	FD24
SEP (1)	E0059	N6		20150904_010510	spo				x	x	-0.7	1.9	4.5	30	FD24
	E0060	un		20150904_043324	spo				x	x	-0.1	0.1	9.7	30	FD24
	E0061	N7		20150904_050911	AUR				x	x	-1.8	0.5	18	30	FD24
	E0062	N3		20150905_023219	AUR				x	x	-2.4	0.4	24	30	FD24
	E0063	un		20150905_032910	ANT				x	x	-0.8	0.4	5.1	30	FD24
	E0064	N3		20150906_194453	spo				x	x	-0.6	0.9	9.4	30	FD24
	E0065	N6		20150906_211432	spo				x	x	0.1	0.7	4.3	30	FD24
	E0066	un		20150908_021948	spo				x	x	0.2	0.3	5.1	30	FD24
SEP (2)	E0067	N6		20150908_023747	spo				x	x	1	0.3	3.6	30	FD24
	E0068	N3		20150908_031432	SPE	v		x	x	x	-2.2	0.6	14	30	FD24
	E0069	um		20150908_043930	spo			x	x		-0.2	0.3	14	30	FD24
	E0070	N1		20150909_034121	spo	v			x	x	-0.8	1.7	9.8	30	FD24
(4)	E0071	um		20150909_045102	SPE				x	x	-0.7	0.1	22	30	FD24
SEP (2)	E0072	N3		20150910_010102	SPE					x	-1.8	0.2	11	30	FD24
	E0073	um		20150910_041207	SPE				x	x	0.4	0.1	9.7	30	FD24
	E0074	N3		20150910_042854	SPE	v	x	x			-1.5	0.2	20	30	FD24
	E0075	N3		20150911_035531	SPE		x	x			-2.8	0.4	13	30	FD24
	E0076	N3		20150911_042030	SPE				x	x	-0.1	0.2	11	30	FD24
SEP (3)	E0077	N1		20150911_044250	spo	v			x	x	0.2	0.3	3.5	30	FD24
	E0078	N3		20150911_050849	SPE	v		x	x	x	-1.8	0.5	17	30	FD24
	E0079	N1		20150911_225340	ANT				x	x	0	0.9	3.3	30	FD24
	E0080	um		20150911_234344	SPE				x	x	-0.4	0.5	9.1	30	FD24
	E0081	um		20150912_000902	spo				x	x	-0.4	0.2	9.3	30	FD24
	E0082	um		20150912_002616	ANT				x	x	0.6	0.8	3.9	30	FD24
	E0083	N1		20150912_025313	spo	v			x	x	-1.3	0.5	19	30	FD24
	E0084	N1		20150912_035217	spo				x	x	-0.9	0.2	27	30	FD24
	E0085	um		20150912_035945	spo				x	x	-0.4	0.3	18	30	FD24
SEP (4)	E0086	um		20150912_041727	spo	v			x	x	-0.4	0.2	10	30	FD24
	E0087	N1		20150912_050152	SPE				x	x	-0.7	0.3	15	30	FD24
	E0088	N3		20150912_052254	spo				x	x	-3.1	0.4	17	30	FD24
	E0089	N3		20150918_004028	spo				x	x	0.7	0.6	2.2	30	FD24
	E0090	N0		20150918_041646	spo	v			x	x	-0.4	0.3	4.5	30	FD24
	E0091	un		20150919_033605	spo				x	x	1.3	0.8	3	30	FD24
	E0092	N3		20150919_233220	spo			x	x	x	-0.1	0.9	4.7	30	FD24
	E0093	N3		20150920_010221	SPE		x				-0.1	0.5	4	30	FD24
	E0094	un		20150920_024630	spo				x	x	0.5	0.3	9.1	30	FD24
	E0095	N1		20150920_043656	ANT					x	-0.4	0.1	8	30	FD24
	E0096	um		20150922_022712	spo				x	x	-0.5	0.2	16	30	FD24
	E0097	N3		20150922_034036	spo				x	x	-0.2	0.2	10	30	FD24
	E0098	N3		20150925_224458	ANT			x	x		-0.9	0.1	4.2	30	FD24

Period	ID	Type		Datetime	Region	v					Val1	Val2	Val3	Dur	Inst
OCT (1)	E0099	N3	o	20151002_220421	spo				x	x	-0.8	1	8.6	30	FD24
	E0100	un		20151002_235938	spo				x	x	0.3	0.7	3.8	30	FD24
	E0101	un		20151003_012507	ANT			x	x		-1.1	0.4	7.9	30	FD24
	E0102	un		20151003_021507	STA				x	x	0.6	0.2	6.7	30	FD24
	E0103	um		20151004_012741	STA			x	x		-0.8	0.2	9.3	30	FD24
	E0104	un		20151004_034713	spo				x	x	-1.3	0.2	20	30	FD24
	E0105	N1		20151004_184556	spo				x	x	-0.7	1	8.3	30	FD24
	E0106	N3		20151005_231041	ANT				x	x	-0.5	0.4	4.8	30	FD24
	E0107	N3		20151006_012419	spo				x	x	-1.3	0.2	14	30	FD24
OCT (2)	E0108	N3		20151006_020857	spo	v			x	x	-1.3	0.5	18	30	FD24
	E0109	N3		20151007_234844	spo	v			x	x	-0.2	0.6	10	30	FD24
	E0110	N3		20151008_025005	spo				x	x	1.3	0.3	2.5	30	FD24
	E0111	N3		20151008_031957	spo	v			x	x	-1	0.6	14	30	FD24
	E0112	u		20151012_195520	spo				x	x	0.6	0.3	4.3	30	FD24
	E0113	un		20151012_214942	spo				x	x	1.1	0.6	3.8	30	FD24
	E0114	N1		20151012_224758	STA				x	x	-0.3	0.3	9.4	30	FD24
	E0115	N3		20151012_231920	STA /ANT				x	x	-0.4	0.1	3.5	30	FD24
	E0116	um		20151013_000008	spo				x	x	1.8	1	3.1	30	FD24
	E0117	N3		20151013_003558	ANT				x	x	1.1	0.3	4.1	30	FD24
	E0118	N1		20151013_022809	ANT				x	x	0.4	0.5	8	30	FD24
OCT (3)	E0119	um		20151013_031232	spo				x	x	0.9	1.2	8.7	30	FD24
	E0120	N3		20151013_032051	ORI	v			x	x	-1.2	0.6	9.3	30	FD24
	E0121	un		20151013_032216	spo				x	x	2	2.1	3.1	30	FD24
	E0122	N0		20151013_230014	spo				x	x	-0.8	0.5	12	30	FD24
	E0123	N3		20151014_013657	STA /ANT				x	x	0.9	0.9	3.5	30	FD24
	E0124	N3		20151014_034426	ANT				x	x	-0.6	1.1	8.9	30	FD24
	E0125	N3		20151014_225148	spo				x	x	0.6	0.5	4.6	30	FD24
	E0126	N3		20151015_020332	spo			x	x		-0.6	0.9	6.2	30	FD24
	E0127	N3		20151015_023557	ORI	v			x	x	-1.4	0.3	23	30	FD24
OCT (4)	E0128	N3		20151015_042029	EGE	v			x	x	-1.5	0.3	16	30	FD24
	E0129	Fe		20151016_223530	spo				x	x	-0.5	0.1	7.3	30	FD24
	E0130	N7		20151016_231004	spo			x	x	x	-0.3	1.9	3.3	30	FD24
	E0131	un		20151017_002104	ANT				x	x	1.3	0.7	2.5	30	FD24
	E0132	N3		20151017_011258	STA /ANT				x	x	-0.5	0.7	5.8	30	FD24
	E0133	un		20151017_022022	STA				x	x	0.4	0.8	6.6	30	FD24
	E0134	N3		20151017_025424	STA				x	x	-0.4	0.7	6.9	30	FD24
	E0135	N3		20151017_040059	OCU	v			x	x	-0.6	0.3	12	30	FD24
	E0136	N3		20151017_234745	STA				x	x	-0.6	0.8	9.9	30	FD24
	E0137	N7		20151018_010604	ANT				x	x	1.2	0.3	2.9	30	FD24
	E0138	N1		20151018_011316	spo	v			x	x	-1.3	0.3	20	30	FD24
OCT (5)	E0139	un		20151018_023143	NTA /ANT				x	x	0.4	0.4	7.7	30	FD24
	E0140	N3		20151018_030739	STA				x	x	x	-0.8	0.3	6.7	30	FD24
	E0141	N3		20151018_043024	spo	v			x	x	-0.8	0.2	22	30	FD24
	E0142	um		20151018_045635	spo	v			x	x	-0.1	0.3	18	30	FD24
	E0143	um		20151018_051524	EGE	v			x	x	0.2	0.1	14	30	FD24
	E0144	N7		20151018_195044	spo		x	x			-2	0.6	7.2	30	FD24
OCT (6)	E0145	N3		20151019_003240	STA				x	x	-0.2	1	9.1	30	FD24
	E0146	um		20151019_010505	ORI	v			x	x	-0.4	0.4	23	30	FD24
	E0147	N3		20151019_014622	spo			x	x	x	-1.2	1.1	9.1	30	FD24
	E0148	N3		20151019_031433	ANT				x	x	-0.2	1	6.2	30	FD24
	E0149	um		20151019_035656	spo	v			x	x	-0.4	0.4	15	30	FD24
	E0150	um		20151019_045041	ORI				x	x	0.3	0.3	16	30	FD24

Month	ID	Type	o	Timestamp	Loc	V									Inst
	E0151	N3		20151019_045143	ORI	v		x	x	x	-1.2	0.3	17	30	FD24
	E0152	N3		20151019_050038	OCU	v			x	x	-0.1	0.1	23	30	FD24
	E0153	N3		20151019_052044	spo				x	x	0.6	0.3	3.2	30	FD24
OCT (7)	E0154	N6		20151020_001851	spo				x	x	0.3	1.1	2.9	30	FD24
	E0155	um		20151020_011539	ORI	v			x	x	-0.6	0.2	17	30	FD24
	E0156	um		20151020_013315	ANT	v			x	x	0	0.1	12	30	FD24
	E0157	um		20151020_015130	STA				x	x	0.9	0.4	4.2	30	FD24
	E0158	um		20151020_031910	ORI				x	x	0	0.2	20	30	FD24
	E0159	N3		20151020_032904	EGE	v			x	x	0	0.3	12	30	FD24
	E0160	N3		20151020_231200	STA /ANT				x	x	-0.4	0.5	8.7	30	FD24
	E0161	um		20151021_003250	ORI	v			x	x	-0.2	0.2	27	30	FD24
	E0162	N3		20151021_003704	spo				x	x	-1.4	0.7	6.2	30	FD24
OCT (8)	E0163	N3		20151021_005337	STA		x	x	x		-1.6	1.6	8	30	FD24
	E0164	um		20151021_011335	ORI				x	x	-0.3	0.2	28	30	FD24
	E0165	un		20151021_012311	spo				x	x	0	0.1	18	30	FD24
	E0166	um		20151021_015239	EGE				x	x	0	0.3	7.8	30	FD24
	E0167	um		20151021_024426	ORI				x	x	-0.3	0.2	23	30	FD24
	E0168	N3		20151021_032005	ANT			x	x		-0.1	1.4	4.7	30	FD24
	E0169	um		20151021_051830	spo				x	x	-0.5	0.2	19	30	FD24
	E0170	um		20151021_054657	ORI				x	x	-1	0.2	12	30	FD24
OCT (9)	E0171	N3		20151022_004211	ORI	v			x	x	-2.4	0.3	23	30	FD24
	E0172	N3		20151022_052602	ORI	v			x	x	-1.2	0.2	13	30	FD24
	E0173	N3	o	20151023_023334	LMI	v			x	x	-0.6	0.4	14	30	FD24
	E0174	N3		20151023_034452	ORI	v				x	-1.5	0.2	17	30	FD24
	E0175	um		20151023_040531	ORI	v			x	x	-1.6	0.2	22	30	FD24
	E0176	um		20151024_015133	spo				x	x	-1.1	0.1	13	30	FD24
	E0177	um		20151024_043404	ORI	v			x	x	-0.1	0.1	16	30	FD24
OCT (10)	E0178	N3		20151024_051518	ORI	v		x	x	x	-2	0.4	18	30	FD24
	E0179	N1		20151024_052027	ORI	v			x	x	-1.2	0.2	13	30	FD24
	E0180	N7		20151024_205504	spo		x	x			-2.3	0.7	9.1	30	FD24
	E0181	N3		20151025_205750	spo				x	x	-0.6	0.7	10	30	FD24
	E0182	N3		20151026_000127	ANT					x	-0.9	0.3	8.6	30	FD24
	E0183	N3		20151026_020021	STA /ANT				x	x	-0.6	0.4	9.3	30	FD24
	E0184	N3		20151026_024341	spo		x	x			-2.6	0.3	15	30	FD24
OCT (11)	E0185	N3		20151026_045237	ORI	v			x	x	-0.9	0.2	14	30	FD24
	E0186	N3		20151026_045933	NTA		x	x	x		-1	1.2	6.7	30	FD24
	E0187	um		20151026_053401	spo	v			x	x	-0.7	0.2	15	30	FD24
	E0188	N3		20151027_004920	STA /ANT				x	x	0.6	0.2	6.6	30	FD24
	E0189	Fe		20151027_010654	spo				x	x	0	0.2	2.4	30	FD24
	E0190	N3		20151027_040713	spo				x	x	0.4	0.9	4	30	FD24
	E0191	um		20151027_045644	LMI				x	x	-0.2	0.1	13	30	FD24
	E0192	um		20151027_053259	ORI				x	x	-0.6	0.1	17	30	FD24
	E0193	N3		20151028_225830	spo		x	x	x		-1.5	1.8	11	30	FD24
	E0194	um		20151029_001125	STA /ANT				x	x	-0.2	0.1	13	30	FD24
OCT (12)	E0195	N3		20151029_051317	ORI		x	x	x		-2.4	0.5	29	30	FD24
	E0196	N3		20151029_055013	spo				x	x	-2.7	0.2	28	30	FD24
	E0197	N3		20151031_214621	NTA		x	x	x		-1.4	0.7	13	30	FD24
	E0198	N3		20151031_231129	spo				x	x	-0.8	1.1	10	30	FD24
	E0199	N3	o	20151101_002720	STA				x	x	-1.5	0.6	9.5	30	FD24
	E0200	N3		20151101_013108	ANT					x	-0.8	0.2	5.4	30	FD24
	E0201	um		20151102_230155	ANT /STA				x	x	-0.2	0.3	10	30	FD24
	E0202	N3	o	20151102_230943	ANT /STA				x	x	-0.6	0.4	16	30	FD24

Month	ID	Type	Flag	Timestamp	Loc	v	1	2	3	4	5	6					
NOV (1)	E0203	N1		20151103_002849	NTA						x		-0.3	0.5	7.3	30	FD24
	E0204	Fe		20151103_003009	STA					x	x		-0.3	0.2	12	30	FD24
	E0205	N3		20151103_003025	STA					x	x		-1.3	0.3	9.3	30	FD24
	E0206	N3		20151103_004135	NTA						x		0.3	0.4	6.5	30	FD24
	E0207	N3		20151103_004745	STA					x	x		-0.1	1	9.6	30	FD24
	E0208	um		20151103_004813	spo	v				x	x		-0.2	0.1	13	30	FD24
	E0209	N3		20151103_010822	STA					x	x		-0.1	0.4	8.1	30	FD24
	E0210	N3		20151103_020046	spo						x	x	-2.3	1.1	5.9	30	FD24
NOV (2)	E0211	N3		20151103_021431	ANT						x		1.6	0.5	4.7	30	FD24
	E0212	N3		20151103_024059	STA					x	x		-0.7	1.2	5.8	30	FD24
	E0213	N3		20151103_042601	LEO	v				x	x		-1.2	0.3	23	30	FD24
	E0214	N3		20151103_043016	STA						x		1.7	0.3	3.9	30	FD24
	E0215	N3		20151103_043748	STA					x	x		1	1.1	2.7	30	FD24
	E0216	um		20151103_045517	spo					x	x		-0.7	0.1	8.6	30	FD24
	E0217	N3		20151103_050335	STA					x	x		1.3	1.2	2.1	30	FD24
	E0218	N3		20151103_210703	STA				x	x			-1	0.1	8.1	30	FD24
	E0219	um		20151103_215933	STA					x	x		0.7	0.7	6.3	30	FD24
	E0220	N3		20151103_221503	STA						x		0.5	0.2	7.2	30	FD24
NOV (3)	E0221	un		20151103_232301	STA /ANT					x	x		0	0.9	4.4	30	FD24
	E0222	N3		20151104_014706	NTA		x	x	x				-1.4	0.8	9.2	30	FD24
	E0223	N3		20151104_030343	STA /ANT					x	x		0.2	0.8	5.9	30	FD24
	E0224	N3		20151104_040753	NTA /STA					x	x		-0.3	1.5	3.4	30	FD24
	E0225	N3		20151104_041813	ANT /STA		x	x	x				-0.8	1.2	4.2	30	FD24
	E0226	N3		20151104_041848	STA /ANT			x	x	x			0.5	1.3	2.5	30	FD24
	E0227	N3		20151104_053455	NTA /ANT				x	x	x		-0.9	1	6.4	30	FD24
	E0228	N3		20151105_025318	ANT						x		-2.3	0.8	4.8	30	FD24
	E0229	N3		20151105_030606	NTA		x	x					-2.2	0.4	8.3	30	FD24
	E0230	NO		20151110_005258	NTA /ANT					x	x		-0.7	0.3	14	30	FD24
	E0231	N3		20151110_005404	spo						x		0.4	0.9	7.8	30	FD24
	E0232	N3		20151110_035030	ANT						x		1.6	0.3	4.2	30	FD24
NOV (4)	E0233	N3		20151110_041828	spo					x	x		0.4	0.8	8.2	30	FD24
	E0234	N3		20151110_234933	NTA /ANT						x		-1.1	0.7	9	30	FD24
	E0235	N3		20151110_235226	spo					x	x		-3	0.6	11	30	FD24
	E0236	N3		20151111_010524	ANT						x		0.9	0.1	7.3	30	FD24
	E0237	Fe		20151111_011716	STA					x	x		-0.4	0.2	9.3	30	FD24
	E0238	N3		20151111_012547	STA					x	x		0.1	0.8	6.5	30	FD24
	E0239	um		20151111_012807	spo					x	x		0.5	0.7	3.5	30	FD24
	E0240	um		20151111_014320	STA					x	x		0.7	0.4	5.3	30	FD24
	E0241	N3		20151111_014658	NTA /ANT					x	x		0.4	0.5	6.8	30	FD24
	E0242	N3		20151111_014802	ANT		x	x					-0.1	0.1	3.7	30	FD24
	E0243	N3		20151111_025310	NTA					x	x		0	0.6	3.4	30	FD24
NOV (5)	E0244	NO		20151111_031148	spo					x	x		-1.3	1.1	32	30	FD24
	E0245	N3		20151111_033420	STA				x	x	x		0	1.7	2.8	30	FD24
	E0246	N3		20151111_034155	STA		x	x					-0.4	0.7	3.1	30	FD24
	E0247	um		20151111_034248	spo	v				x	x		-0.1	0.6	15	30	FD24
	E0248	NO		20151111_035517	NOO					x	x		-0.3	0.5	11	30	FD24
	E0249	um		20151111_054341	spo					x	x		-1.1	0.1	17	30	FD24
	E0250	N3		20151115_184316	ANT /STA					x	x	x	-0.2	2.6	7.6	30	FD24
NOV (6)	E0251	N3	o	20151116_025905	LEO	v				x	x		-1.6	0.3	26	30	FD24
	E0252	um		20151116_025933	STA /NTA					x	x		0.9	0.6	4	30	FD24
	E0253	N3		20151116_051514	HYD	v				x	x		-0.1	0.4	4	30	FD24
	E0254	N3		20151117_000645	STA					x	x		-0.1	0.8	10	30	FD24

Month	ID	Type		Timestamp	Loc							V1	V2	V3	n	
(6)	E0255	N3		20151127_060707	spo			x	x	x		-2.8	0.8	31	30	FD24
	E0256	Fe		20151127_205145	spo				x	x		-0.1	0.1	6.4	30	FD24
	E0257	N3		20151127_215144	spo		x	x				0	0.6	4.2	30	FD24
NOV (7)	E0258	N3		20151127_215858	STA			x	x			-1	0.9	10	30	FD24
	E0259	un		20151127_220322	spo			x	x			0.5	0.9	3.6	30	FD24
	E0260	N3		20151127_222709	NTA		x	x	x	x		-3.7	1.8	13	30	FD24
	E0261	un		20151128_223428	STA			x	x			1	0.4	13	30	FD24
	E0262	um		20151128_232517	MON			x	x			2.6	0.2	16	30	FD24
NOV (8)	E0263	N3		20151128_235911	STA /ANT			x	x			2	0.7	11	30	FD24
	E0264	um		20151129_033945	spo		x	x				-1	0.6	18	30	FD24
	E0265	N3		20151129_045639	HYD			x	x			-1.7	0.7	12	30	FD24
	E0266	N7	o	20151130_222653	NTA			x	x			0.3	1	11	30	FD24
	E0267	Fe		20151130_225249	spo			x	x			-0.4	0.4	3.9	30	FD24
	E0268	N3		20151130_234611	ANT /STA			x	x			-0.3	0.5	9.6	30	FD24
	E0269	N7		20151201_022809	STA		x	?				1.5	0.1	3.1	30	FD24
	E0270	u		20151201_031303	spo			x	x			0.4	0.8	5	30	FD24
	E0271	um		20151201_052333	PSU			x	x			-0.3	0.1	24	30	FD24
	E0272	N3		20151201_055713	PSU	v	x	x	x			-2.2	0.2	18	30	FD24
DEC (1)	E0273	N1		20151201_235306	spo			x	x			-0.1	0.7	7.3	30	FD24
	E0274	um		20151202_005040	NOO			x	x			-0.3	0.2	17	30	FD24
	E0275	N3		20151202_025401	STA			x	x			0.4	1.5	2.7	30	FD24
	E0276	N3		20151204_014818	spo			x	x			0.1	1.5	8.6	30	FD24
	E0277	N3		20151204_055532	STA /ANT			x	x			-1.2	2.4	9.6	30	FD24
	E0278	Fe		20151207_195612	spo			x	x			0.5	0.1	15	30	FD24
	E0279	Fe		20151207_195626	spo			x	x			-1	0.2	6.8	30	FD24
	E0280	N3		20151208_004044	spo			x	x			0	0.6	6.5	30	FD24
	E0281	N1		20151208_012021	GEM			x	x			-1.3	0.4	14	30	FD24
DEC (2)	E0282	um		20151208_022220	MON			x	x			-0.2	0.4	8.8	30	FD24
	E0283	um		20151208_022803	NOO			x	x			0.7	0.2	9.5	30	FD24
	E0284	N3		20151208_023510	spo	v		x	x			-0.4	0.2	12	30	FD24
	E0285	N3		20151208_024005	HYD	v		x	x			-1.8	0.6	18	30	FD24
	E0286	um		20151208_032858	ANT			x	x			0.7	0.2	9.9	30	FD24
	E0287	um		20151208_034545	PSU		x	x				-2.3	2.2	22	30	FD24
	E0288	N3		20151208_041807	ANT			x	x			0	1.3	2.6	30	FD24
	E0289	um		20151208_043853	J5_daD			x	x			0	0.1	16	30	FD24
	E0290	um		20151208_050905	spo			x	x			-0.9	0.1	18	30	FD24
	E0291	N3		20151208_052025	HYD	v			x			-0.4	0.1	9.1	30	FD24
	E0292	N1		20151208_055443	spo			x	x			-0.1	0.6	12	30	FD24
	E0293	N6		20151208_214215	STA /ANT		x	x				-0.5	0.3	7.1	30	FD24
DEC (3)	E0294	N3		20151208_230433	STA /NOO			x	x			-0.3	0.3	10	30	FD24
	E0295	N1		20151209_001605	HYD /MON			x	x			-0.6	0.4	16	30	FD24
	E0296	N3		20151209_010745	spo	v		x	x			-1.6	2	25	30	FD24
	E0297	N1		20151209_014945	HYD	v		x	x			-1	0.3	20	30	FD24
DEC (4)	E0298	N1		20151209_021359	HYD	v		x	x			-1.1	0.4	25	30	FD24
	E0299	Fe		20151209_050610	spo			x	x			-1	0.2	20	30	FD24
	E0300	N1		20151211_040605	GEM			x	x			0.2	0.2	9.3	30	FD24
	E0301	um		20151211_041720	GEM			x	x			0.9	0.3	5.6	30	FD24
	E0302	um		20151211_042117	HYD	v		x	x			-0.2	0.5	12	30	FD24
	E0303	um		20151211_042226	spo			x	x			0.2	0.1	11	30	FD24
	E0304	N3		20151212_015319	spo			x	x			0	1.3	5.1	30	FD24
	E0305	N3		20151212_023150	MON /STA			x	x			0	0.3	9.3	30	FD24
	E0306	N1		20151212_023306	GEM			x	x			-0.2	0.6	8.6	30	FD24

Date	ID	Type	o	Timestamp	Source	v									Code
	E0307	N3		20151212_024417	GEM			x	x	x	-1	0.9	17	30	FD24
	E0308	um		20151212_025040	HYD	v			x	x	-0.5	0.3	10	30	FD24
DEC (5)	E0309	um		20151212_031507	GEM				x	x	0.6	0.2	10	30	FD24
	E0310	um		20151212_035749	GEM				x	x	-0.9	0.1	17	30	FD24
	E0311	N3		20151213_030802	GEM			x			1.5	0.2	11	30	FD85
(10)	E0312	N1?		20151214_013155	GEM				x	x					FD24
	E0313	um		20151214_052858	GEM				x	x	-0.5	0.5	7.5	30	FD24
	E0314	N3		20151214_054456	GEM		x	x			0.4	0.6	4.8	30	FD24
	E0315	un		20151214_061002	GEM				x	x	1	0.6	2.9	30	FD24
DEC (5)	E0316	um		20151214_061935	GEM				x	x	-0.1	0.4	7.2	30	FD24
	E0317	um		20151214_062002	GEM				x	x	-0.5	0.6	8.7	30	FD24
	E0318	um		20151214_062331	GEM			x	x		0.5	0.7	2.6	30	FD24
	E0319	N3		20151216_012641	GEM		x	x			0.1	0.2	15	30	FD24
	E0320	N3		20151216_013319	GEM			x	x	x	-1.5	0.7	14	30	FD24
	E0321	um		20151216_015119	GEM				x	x	0.1	0.2	13	30	FD24
	E0322	um		20151216_020111	spo				x	x	0.3	0.1	13	30	FD24
	E0323	N3		20151216_022147	GEM				x	x	-0.8	0.4	15	30	FD24
	E0324	N3		20151216_023229	GEM			x	x	x	-0.9	0.6	10	30	FD24
	E0325	un		20151216_024846	GEM				x	x	0.1	0.2	10	30	FD24
DEC (6)	E0326	N6	o	20151216_025429	spo		x	x			1.4	0.7	3.9	30	FD24
	E0327	um		20151216_030434	GEM				x	x	1.2	0.1	9.9	30	FD24
	E0328	um		20151216_035235	GEM				x	x	0.5	0.3	3.9	30	FD24
	E0329	um		20151216_040006	spo	v			x	x	-1	0.1	24	30	FD24
	E0330	um		20151216_225346	spo				x	x	0	0.1	23	30	FD24
	E0331	Fe		20151216_235755	NTA				x	x	0	0.1	8.4	30	FD24
	E0332	Fe		20151217_004204	spo				x	x	0	0.8	4.8	30	FD24
	E0333	N1		20151217_005847	HYD	v			x	x	-0.8	0.3	21	30	FD24
	E0334	N1?		20151217_011344	GEM				x	x	-0.6	0.3	13	30	FD24
	E0335	N3		20151217_013109	URS				x	x	0	0.9	12	30	FD24
DEC (7)	E0336	N1		20151217_033228	DLM	v			x	x	-1	0.2	24	30	FD24
	E0337	N1		20151217_034038	spo				x	x	0.3	0.2	13	30	FD24
	E0338	N1		20151217_040521	DLM				x	x	0.6	0.1	14	30	FD24
	E0339	Fe		20151217_042040	spo				x	x	0.5	0.3	3.9	30	FD24
	E0340	N3		20151218_225802	ANT /GEM				x	x	-0.1	0.6	8.6	30	FD24
(8)	E0341	N3		20151218_231841	DLM			x	x	x	-2.2	1.1	20	30	FD24
(7)	E0342	N1?		20151219_001548	GEM				x	x	-0.2	0.3	16	30	FD24
	E0343	um		20151219_003046	MON				x	x	0.1	0.3	17	30	FD24
	E0344	um		20151219_052715	spo	v			x	x	-0.5	0.3	24	30	FD24
DEC (8)	E0345	N1		20151219_054133	spo	v			x	x	-0.4	0.4	6.7	30	FD24
	E0346	N1		20151220_021452	spo	v			x	x	0.2	1.1	11	30	FD24
	E0347	N3		20151220_031015	DLM	v				x	-1.2	0.3	14	30	FD24
	E0348	N3		20151220_033826	spo			x	x		-1.3	0.3	22	30	FD24
	E0349	N3		20151220_043306	ANT /STA			x			-1.6	0.5	9.9	30	FD24
	E0350	N6		20151222_010918	URS				x	x	0.6	0.6	6.9	30	FD24
	E0351	N3		20151224_030353	DLM	v			x	x	-2.7	0.2	25	30	FD24
DEC (9)	E0352	N1		20151224_041324	spo				x	x	-0.9	0.2	16	30	FD24
	E0353	N3		20151224_052731	DLM				x	x	-2	0.2	12	30	FD24
	E0354	um		20151226_020323	DLM				x	x	-0.3	0.1	18	30	FD24
	E0355	um		20151226_020604	ANT				x	x	0.8	0.4	6.7	30	FD24
	E0356	N3		20151226_062625	spo		x	x			-0.5	1.9	5.6	30	FD24
	E0357	N0		20151228_061042	ANT				x	x	-0.9	0.3	13	30	FD24
	E0358	N1		20151228_235802	HYD				x	x	-0.8	0.3	14	30	FD24

DEC (10)	E0359	N3	o	20151229_044213	spo	v			x		-2	0.1	16	30	FD24
	E0360	N3		20151229_044859	DLM	v	x	x	x		-1	0.2	17	30	FD24
	E0361	un		20151229_205705	spo			x	x		0.9	1	4.5	30	FD24
	E0362	um		20151229_212410	DLM	v		x	x		0.1	0.2	23	30	FD24

classfication (＊)		
code	Na/(Mg+Na)	characterrization
Fe	－	Iron
N0	10%以下	Na-free
N1	10-20%	Main-stream / Na-poor
N3	20-60%	Main-stream / Normal
N6	60-75%	Main-stream / enhanced Na
N7	75%以上	Na-rich
Na	～100%	Mg-free
um		only Mg, dark
un		only Na, dark
u		unable to classfy
		＊ Borovicka et al. (2005)

note: The classification was carried out by the naked eye.