
Understanding the General Feature of Microvariability in *Kepler* Blazar W2R 1926+42

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Received ; Accepted

Abstract

This file contains supplement tables and figures.

Key words: galaxies: active - galaxies: jets - galaxies: individual (W2R 1926+42) - techniques: photo-
metric - methods: observational

Supplement table 1. Amplitude and E-folding Timescales of Shots

No	Date	Amplitude	Duration	Rise Time	Decay Time
1	8.0924	152±17	0.042±0.006	0.018±0.005	0.024±0.001
2	8.4207	82±17	0.096±0.035	0.057±0.017	0.039±0.018
3	8.8232	71±14	0.090±0.035	0.042±0.016	0.048±0.020
4	9.6917	69±14	0.068±0.034	0.039±0.019	0.029±0.015
5	9.9423	110±14	0.129±0.031	0.108±0.025	0.020±0.005
6	10.5070	96±20	0.110±0.039	0.040±0.019	0.069±0.020
7	11.0410	90±12	0.066±0.012	0.043±0.009	0.022±0.003
8	11.0976	92±12	0.060±0.010	0.016±0.004	0.043±0.005
9	12.6751	96±12	0.125±0.029	0.087±0.020	0.038±0.009
10	13.7452	78±13	0.052±0.016	0.008±0.002	0.044±0.014
11	13.8821	79±13	0.078±0.022	0.034±0.008	0.044±0.014
12	14.2036	118±13	0.182±0.025	0.077±0.011	0.105±0.014
13	14.5496	123±12	0.109±0.013	0.073±0.012	0.036±0.001
14	14.6940	120±12	0.160±0.012	0.082±0.004	0.078±0.008
15	15.2260	115±13	0.143±0.018	0.109±0.010	0.034±0.007
16	16.5085	69±14	0.120±0.040	0.054±0.020	0.066±0.020
17	17.1182	98±14	0.171±0.042	0.085±0.022	0.086±0.019
18	17.6801	245±25	0.249±0.018	0.149±0.006	0.100±0.012
19	17.9444	179±25	0.225±0.019	0.111±0.006	0.114±0.013
20	18.5908	145±17	0.143±0.017	0.060±0.005	0.083±0.013
21	19.2072	136±16	0.121±0.009	0.058±0.003	0.063±0.007
22	19.9265	101±16	0.093±0.028	0.043±0.008	0.050±0.020
23	20.3325	74±13	0.064±0.017	0.042±0.008	0.021±0.009
24	21.0640	118±13	0.123±0.040	0.046±0.005	0.077±0.035
25	21.8950	94±14	0.066±0.010	0.046±0.008	0.020±0.002
26	21.9277	93±14	0.034±0.014	0.003±0.002	0.032±0.012
27	22.0333	216±13	0.098±0.004	0.049±0.001	0.049±0.003
28	22.0905	229±13	0.138±0.006	0.042±0.002	0.096±0.003
29	29.1416	80±13	0.123±0.022	0.068±0.012	0.054±0.010
30	29.4686	181±17	0.293±0.025	0.203±0.016	0.090±0.009
31	29.7492	197±16	0.285±0.023	0.122±0.010	0.164±0.013
32	30.6490	77±24	0.228±0.118	0.169±0.076	0.059±0.042
33	31.0815	111±14	0.170±0.032	0.086±0.015	0.084±0.017
34	31.5045	124±23	0.122±0.052	0.068±0.021	0.053±0.031
35	32.0017	69±14	0.039±0.017	0.020±0.011	0.020±0.006
36	32.6583	101±26	0.077±0.040	0.031±0.016	0.046±0.024
37	32.8293	91±13	0.048±0.013	0.034±0.008	0.014±0.006
38	32.9961	175±19	0.173±0.022	0.070±0.011	0.103±0.011
39	33.0929	141±19	0.078±0.011	0.035±0.005	0.043±0.006
40	33.2706	127±12	0.092±0.013	0.034±0.004	0.058±0.009

Column 1 - Number, 2 - Peak MJD, 3 - Amplitude (c s^{-1}), 4 - Duration (d), 5 - Rise Time (d), 6 - Decay Time (d)

Supplement table 1. (Continue)

No	Date	Amplitude	Duration	Rise Time	Decay Time
41	33.5451	98±16	0.034±0.007	0.024±0.003	0.010±0.004
42	33.6371	92±19	0.033±0.011	0.020±0.008	0.013±0.003
43	33.6623	115±19	0.021±0.004	0.012±0.002	0.010±0.002
44	33.6861	114±18	0.047±0.008	0.027±0.004	0.019±0.003
45	33.7175	126±18	0.031±0.007	0.019±0.006	0.012±0.000
46	33.7604	131±18	0.039±0.004	0.027±0.001	0.012±0.003
47	33.8646	94±13	0.047±0.010	0.017±0.006	0.030±0.004
48	33.9300	100±13	0.042±0.009	0.012±0.002	0.030±0.007
49	33.9926	74±13	0.027±0.005	0.019±0.003	0.008±0.002
50	34.3714	71±14	0.042±0.010	0.015±0.006	0.027±0.003
51	34.6043	158±17	0.128±0.006	0.077±0.005	0.051±0.011
52	34.7221	97±13	0.044±0.010	0.038±0.009	0.006±0.002
53	34.7977	85±14	0.027±0.004	0.013±0.003	0.014±0.001
54	34.8495	136±14	0.048±0.001	0.026±0.001	0.022±0.002
55	34.9490	119±15	0.122±0.020	0.052±0.008	0.070±0.012
56	35.1363	104±13	0.074±0.004	0.036±0.004	0.037±0.000
57	35.2146	103±13	0.063±0.009	0.030±0.002	0.033±0.006
58	35.4176	94±14	0.042±0.010	0.031±0.008	0.011±0.002
59	35.5763	118±13	0.038±0.013	0.014±0.004	0.024±0.009
60	35.8828	290±34	0.162±0.028	0.059±0.018	0.102±0.010
61	36.2247	307±26	0.147±0.014	0.104±0.010	0.044±0.003
62	36.4168	236±26	0.094±0.010	0.060±0.006	0.034±0.004
63	36.4835	248±26	0.186±0.016	0.041±0.004	0.145±0.012
64	36.7104	179±26	0.087±0.010	0.040±0.003	0.047±0.007
65	36.8282	141±26	0.080±0.019	0.051±0.012	0.029±0.007
66	37.2457	122±23	0.058±0.010	0.047±0.004	0.011±0.006
67	37.3888	139±25	0.074±0.019	0.028±0.008	0.046±0.010
68	37.5550	101±21	0.034±0.010	0.009±0.006	0.025±0.004
69	37.7532	110±13	0.044±0.007	0.035±0.007	0.009±0.000
70	37.7859	96±13	0.034±0.005	0.012±0.001	0.022±0.004
71	39.2837	116±12	0.040±0.006	0.015±0.002	0.024±0.003
72	39.4315	156±15	0.059±0.004	0.030±0.001	0.030±0.003
73	39.4771	186±15	0.058±0.004	0.036±0.003	0.022±0.001
74	39.5990	111±18	0.049±0.008	0.035±0.005	0.014±0.002
75	39.6883	73±19	0.020±0.007	0.004±0.002	0.015±0.005
76	40.1623	119±18	0.114±0.020	0.051±0.006	0.063±0.015
77	40.4975	108±15	0.135±0.028	0.051±0.011	0.084±0.017
78	40.7583	70±14	0.018±0.005	0.009±0.003	0.009±0.002
79	40.8040	72±15	0.024±0.002	0.018±0.001	0.007±0.001
80	40.8387	154±18	0.040±0.007	0.016±0.003	0.024±0.004

Supplement table 1. (Continue)

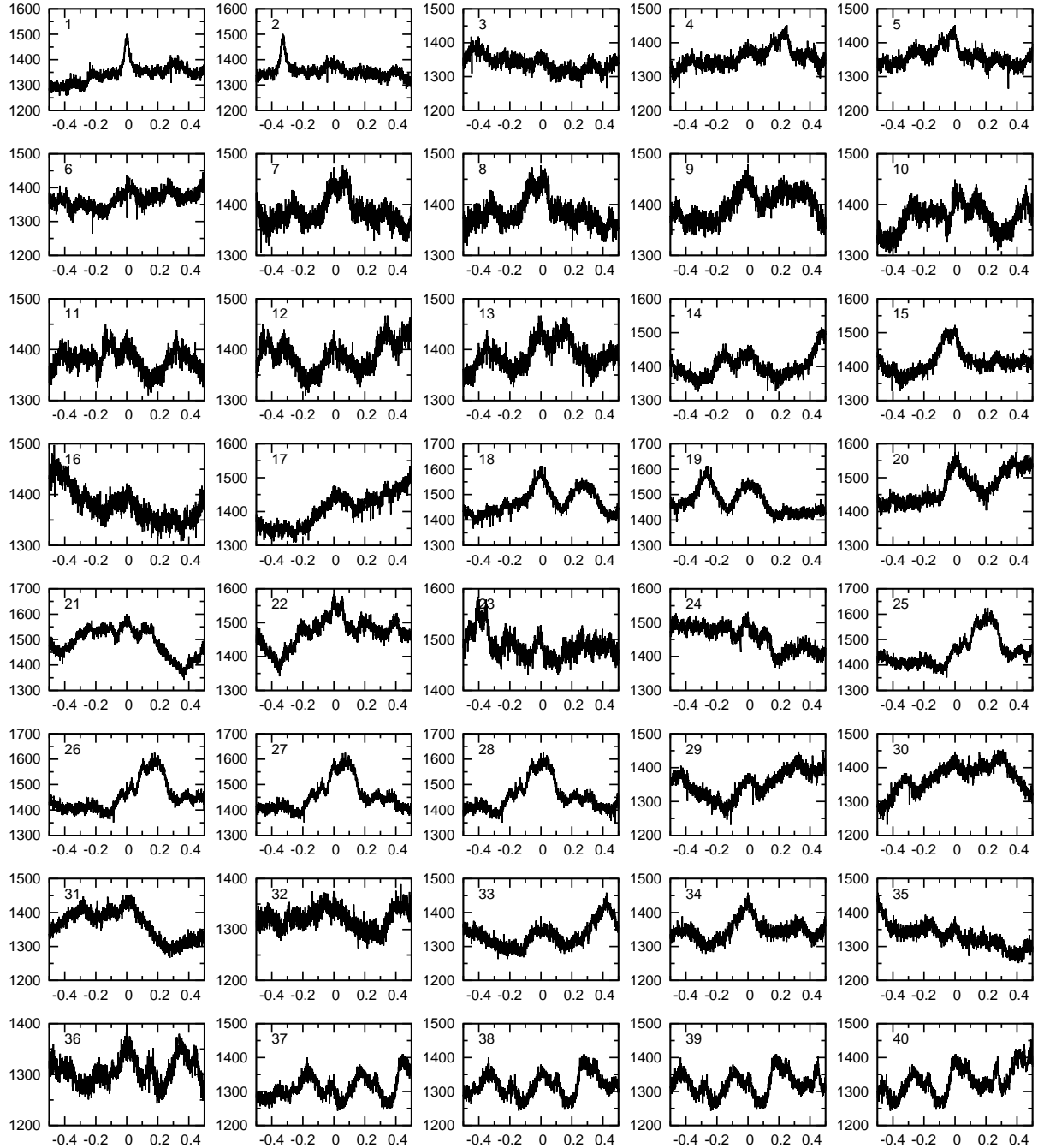
No	Date	Amplitude	Duration	Rise Time	Decay Time
81	41.5171	159±13	0.051±0.005	0.022±0.002	0.030±0.002
82	41.5716	91±13	0.023±0.003	0.018±0.002	0.005±0.002
83	41.6608	172±35	0.083±0.020	0.044±0.012	0.039±0.008
84	41.7882	213±14	0.054±0.004	0.024±0.002	0.029±0.002
85	41.8590	256±14	0.061±0.009	0.040±0.007	0.021±0.002
86	42.0613	161±13	0.044±0.004	0.023±0.004	0.021±0.000
87	42.1219	177±13	0.048±0.000	0.032±0.001	0.016±0.001
88	42.4720	114±14	0.039±0.002	0.011±0.001	0.028±0.001
89	42.5769	130±15	0.044±0.009	0.028±0.004	0.016±0.005
90	42.6941	124±16	0.034±0.003	0.014±0.001	0.020±0.002
91	42.7636	388±33	0.048±0.004	0.029±0.002	0.019±0.002
92	42.7813	455±33	0.069±0.009	0.017±0.001	0.052±0.008
93	42.9631	192±23	0.118±0.014	0.038±0.004	0.081±0.010
94	43.1218	76±17	0.063±0.012	0.018±0.006	0.045±0.007
95	43.2397	126±17	0.075±0.011	0.026±0.005	0.049±0.006
96	43.5796	137±13	0.093±0.013	0.058±0.008	0.035±0.005
97	44.2791	125±12	0.053±0.006	0.036±0.006	0.017±0.000
98	44.3458	95±12	0.043±0.006	0.031±0.004	0.011±0.003
99	44.5379	103±25	0.044±0.011	0.024±0.007	0.020±0.004
100	44.6925	91±13	0.034±0.007	0.024±0.004	0.010±0.002
101	44.8451	160±16	0.067±0.008	0.034±0.005	0.033±0.003
102	45.0283	213±19	0.101±0.016	0.070±0.009	0.031±0.007
103	45.1584	113±18	0.043±0.018	0.020±0.013	0.022±0.004
104	45.3839	237±23	0.097±0.008	0.045±0.003	0.052±0.005
105	45.4656	380±23	0.109±0.002	0.043±0.001	0.066±0.001
106	45.8940	189±19	0.079±0.006	0.049±0.003	0.030±0.003
107	45.9533	158±19	0.056±0.007	0.031±0.004	0.025±0.003
108	46.1154	190±18	0.037±0.005	0.025±0.004	0.012±0.001
109	46.2414	221±15	0.053±0.001	0.014±0.000	0.039±0.000
110	46.4771	131±21	0.052±0.006	0.018±0.001	0.034±0.005
111	46.9239	186±22	0.183±0.026	0.070±0.008	0.113±0.017
112	47.2290	171±18	0.029±0.006	0.014±0.004	0.016±0.002
113	47.3346	118±15	0.050±0.003	0.010±0.002	0.039±0.001
114	47.4749	80±16	0.025±0.008	0.014±0.006	0.011±0.002
115	47.6330	129±21	0.032±0.007	0.013±0.003	0.019±0.003
116	47.7160	192±23	0.038±0.006	0.024±0.004	0.014±0.002
117	47.7419	175±23	0.072±0.010	0.035±0.005	0.037±0.005
118	47.7835	147±23	0.040±0.009	0.022±0.003	0.018±0.006
119	47.9074	210±18	0.053±0.004	0.024±0.002	0.028±0.002
120	47.9749	140±18	0.032±0.005	0.016±0.002	0.016±0.002

Supplement table 1. (Continue)

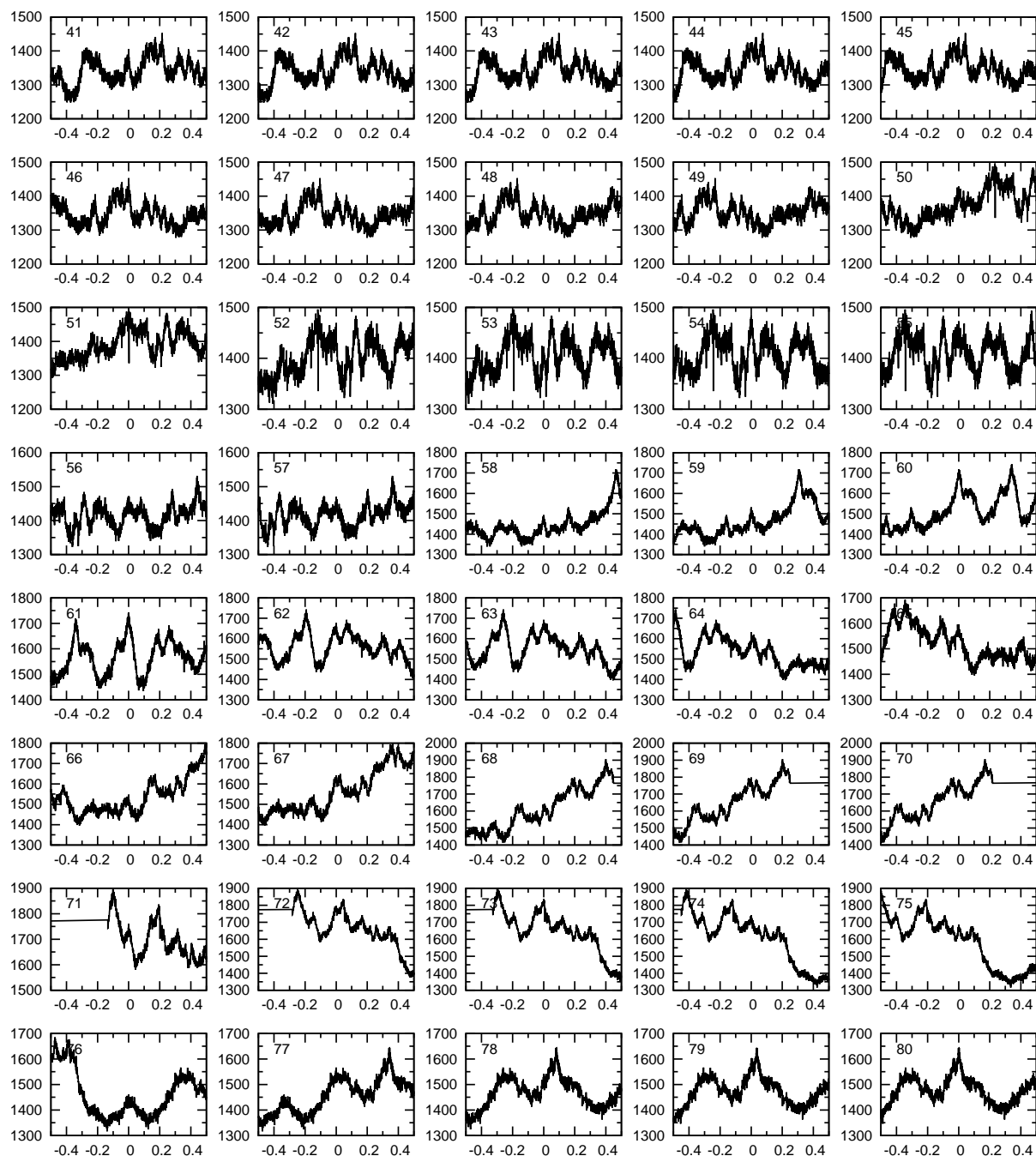
No	Date	Amplitude	Duration	Rise Time	Decay Time
121	48.0355	149±18	0.049±0.006	0.030±0.003	0.019±0.003
122	48.2214	82±17	0.059±0.008	0.028±0.005	0.031±0.003
123	48.5402	85±13	0.062±0.011	0.035±0.005	0.027±0.006
124	49.2615	137±16	0.146±0.008	0.042±0.005	0.104±0.004
125	49.5306	162±17	0.102±0.015	0.057±0.007	0.045±0.008
126	49.7492	109±14	0.130±0.013	0.038±0.005	0.093±0.008
127	49.9624	119±15	0.159±0.006	0.093±0.001	0.065±0.005
128	50.1661	100±15	0.146±0.031	0.087±0.017	0.058±0.014
129	50.5918	88±16	0.117±0.027	0.062±0.021	0.055±0.006
130	50.8411	100±13	0.157±0.020	0.067±0.006	0.091±0.014
131	51.4016	120±16	0.109±0.015	0.043±0.008	0.066±0.008
132	52.1522	125±15	0.105±0.016	0.034±0.007	0.071±0.009
133	52.5371	134±18	0.121±0.018	0.073±0.012	0.048±0.006
134	52.6133	123±18	0.112±0.015	0.037±0.005	0.075±0.009
135	53.0431	129±16	0.090±0.010	0.040±0.006	0.050±0.004
136	53.2638	215±16	0.158±0.009	0.095±0.007	0.063±0.002
137	53.6228	235±28	0.089±0.007	0.038±0.003	0.051±0.004
138	53.8298	118±18	0.081±0.013	0.030±0.005	0.051±0.008
139	53.9136	104±18	0.078±0.006	0.025±0.000	0.053±0.006
140	54.1772	156±14	0.099±0.007	0.024±0.003	0.076±0.004
141	54.9360	170±16	0.170±0.010	0.078±0.005	0.092±0.004
142	55.1928	135±14	0.115±0.032	0.038±0.010	0.077±0.022
143	55.5170	122±18	0.106±0.013	0.050±0.008	0.056±0.005
144	55.6920	205±17	0.165±0.015	0.052±0.005	0.114±0.010
145	55.8432	221±17	0.205±0.016	0.102±0.008	0.104±0.008
146	55.9931	222±17	0.076±0.004	0.061±0.003	0.015±0.001
147	56.0367	227±17	0.130±0.010	0.071±0.005	0.059±0.004
148	56.1211	216±17	0.161±0.013	0.122±0.010	0.039±0.003
149	56.3207	150±17	0.079±0.010	0.055±0.007	0.024±0.003
150	56.3765	164±17	0.199±0.014	0.054±0.006	0.146±0.009
151	56.7662	102±14	0.169±0.023	0.147±0.013	0.023±0.010
152	56.9855	124±14	0.131±0.014	0.087±0.009	0.045±0.005
153	57.5746	103±14	0.137±0.024	0.067±0.010	0.070±0.013
154	58.0909	71±12	0.144±0.034	0.060±0.013	0.084±0.022
155	59.0322	99±13	0.096±0.010	0.078±0.009	0.018±0.000
156	59.0772	111±13	0.112±0.022	0.019±0.004	0.093±0.018
157	59.2849	116±13	0.171±0.018	0.115±0.017	0.056±0.000
158	59.4191	94±13	0.104±0.033	0.007±0.016	0.097±0.017
159	59.8871	166±12	0.226±0.020	0.144±0.014	0.082±0.006
160	60.0137	205±12	0.270±0.015	0.086±0.005	0.184±0.010

Supplement table 1. (Continue)

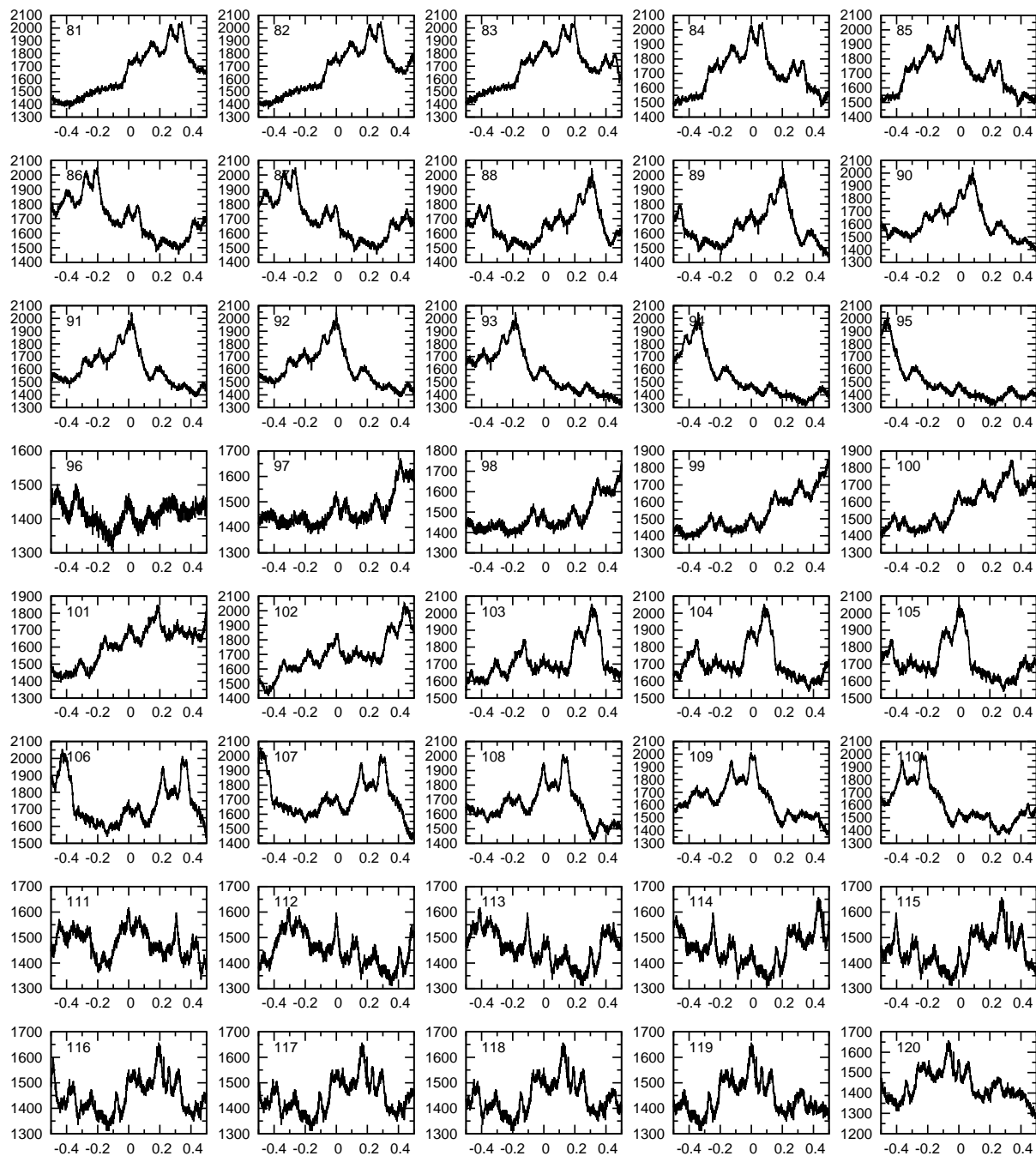
No	Date	Amplitude	Duration	Rise Time	Decay Time
161	60.2160	134±12	0.177±0.018	0.095±0.008	0.083±0.009
162	60.5607	113±13	0.092±0.017	0.043±0.007	0.048±0.010
163	60.8897	88±12	0.158±0.033	0.107±0.026	0.051±0.008
164	61.1383	195±13	0.196±0.009	0.076±0.003	0.119±0.006
165	61.5469	124±17	0.219±0.028	0.138±0.008	0.081±0.019
166	62.6388	193±23	0.192±0.032	0.066±0.011	0.125±0.021
167	63.0045	126±17	0.141±0.021	0.072±0.016	0.069±0.006
168	63.1571	189±17	0.223±0.003	0.068±0.005	0.154±0.007
169	63.3805	146±17	0.125±0.024	0.074±0.014	0.051±0.010
170	63.4854	132±17	0.120±0.020	0.055±0.007	0.066±0.013
171	64.4955	111±15	0.367±0.074	0.079±0.020	0.288±0.054
172	67.5347	175±22	0.241±0.026	0.157±0.011	0.084±0.015
173	67.9290	293±20	0.313±0.022	0.137±0.010	0.176±0.012
174	68.1347	204±20	0.193±0.019	0.096±0.009	0.097±0.009
175	68.6238	351±20	0.306±0.016	0.098±0.009	0.208±0.007
176	71.0853	288±16	0.339±0.015	0.120±0.006	0.219±0.009
177	71.9496	188±15	0.207±0.021	0.107±0.013	0.100±0.008
178	72.1070	176±15	0.231±0.020	0.102±0.009	0.129±0.012
179	72.3651	189±16	0.388±0.032	0.269±0.021	0.119±0.010
180	72.5136	191±16	0.229±0.019	0.066±0.005	0.163±0.014
181	72.7595	241±16	0.408±0.027	0.181±0.012	0.226±0.015
182	73.1014	254±16	0.306±0.019	0.158±0.010	0.148±0.009
183	73.4229	295±15	0.289±0.016	0.238±0.013	0.051±0.003
184	73.4856	259±15	0.316±0.020	0.094±0.006	0.223±0.015
185	74.0488	110±14	0.126±0.015	0.062±0.007	0.064±0.008
186	74.4514	93±13	0.102±0.017	0.030±0.006	0.072±0.011
187	74.9990	87±13	0.185±0.039	0.080±0.016	0.106±0.023
188	76.0683	80±12	0.210±0.059	0.151±0.046	0.059±0.013
189	76.4395	75±13	0.105±0.031	0.063±0.022	0.042±0.010
190	77.0226	108±12	0.102±0.017	0.060±0.008	0.042±0.008
191	77.1561	100±12	0.295±0.057	0.105±0.032	0.190±0.025
192	80.7578	109±13	0.391±0.112	0.232±0.064	0.158±0.048
193	85.2674	87±13	0.497±0.137	0.230±0.079	0.267±0.058
194	86.1263	73±12	0.128±0.018	0.085±0.017	0.042±0.001
195	95.1884	95±14	0.706±0.317	0.275±0.127	0.431±0.191



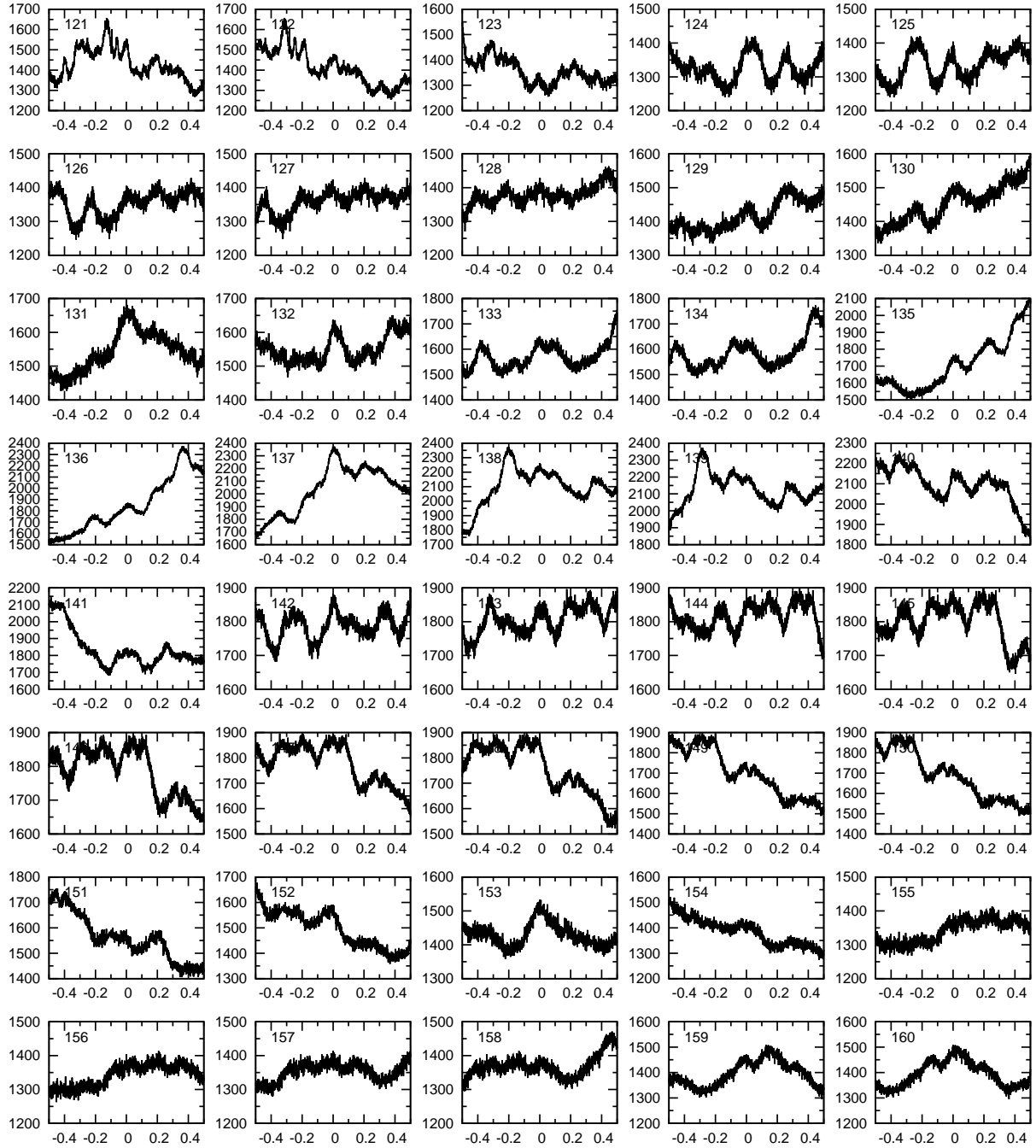
Supplement figure 1. Light curve of each detected shot obtained by the *Kepler* spacecraft over the entire Quarter 14 period. The object was monitored for 100 d with 1-minute time resolution. Each shot is numbered at the left top. The number of each shot is listed in supplemental tables.



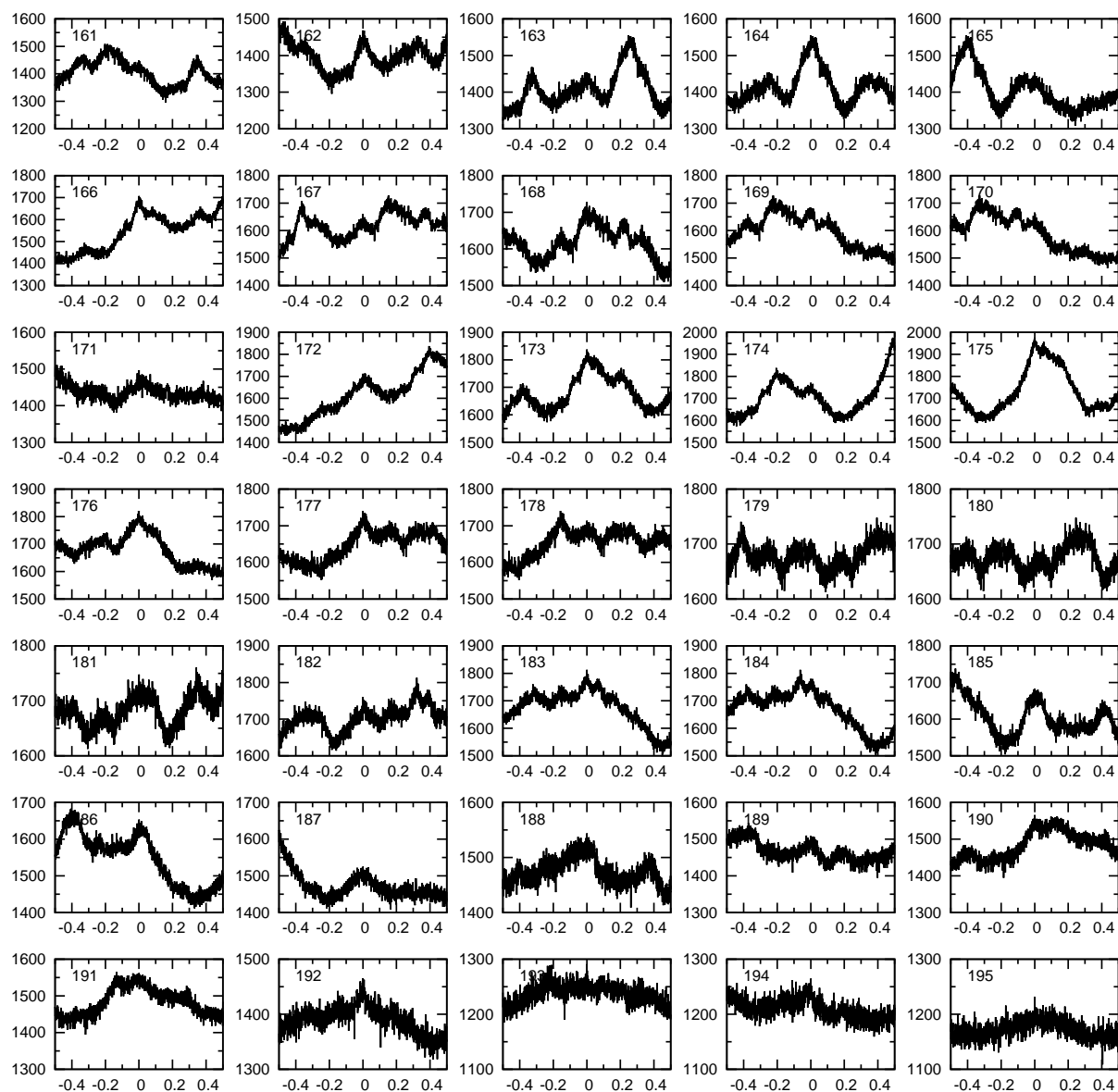
Supplement figure 2. (Continued)



Supplement figure 3. (Continued)



Supplement figure 4. (Continued)



Supplement figure 5. (Continued)