

Probing the extragalactic fast transient sky at minute timescales with DECam 1**APPENDIX A: UPPER LIMITS FOR AREAL RATES**

In this table we report upper limits for the rate of optical extragalactic fast transients. The rates are obtained as explained in Section 6 and are plotted in Figure 6.

Timescale (minutes)	Rate upper limits (events day ⁻¹ deg ⁻²)				
	23.0	23.7	24.2	24.5	24.7
1.17	1.625				
2.0	1.422				
2.83	1.294				
3.67	1.250				
4.5	1.222				
5.33	1.203				
6.17	1.189				
7.0	1.179				
7.83	1.170	5.77			
8.67	1.164				
9.5	1.158				
10.33	1.153				
11.17	1.149				
12.0	1.146	5.65			
12.83	1.143				
13.67	1.140				
14.5	1.138		9.81		
15.33	1.136				
16.17	1.134	5.60			
17.0	1.132				
17.83	1.131				
18.67	1.130				
19.5	1.128				
20.33	1.127	5.56			
21.17	1.126			13.59	
22.0	1.125		9.70		
22.83	1.124				
23.67	1.123				
24.5	1.123	5.54			
25.33	1.122				
26.17	1.121				
27.0	1.120				
27.83	1.120				17.03
28.67	1.119	5.52			
29.5	1.119		9.64		
30.33	1.118				
31.17	1.118				
32.0	1.117			13.48	
32.83	1.117	5.51			
33.67	1.116				
34.5	1.116				
35.33	1.116				
36.17	1.115				
37.0	1.115	5.50	9.61		
37.83	1.115				
38.67	1.114				
39.5	1.114				
40.33	1.114				
41.17	1.113	5.49			
42.0	1.113				16.92
42.83	1.113			13.43	
43.67	1.113				
44.5	1.112		9.59		
45.33	1.112	5.49			
46.17	1.112				
47.0	1.112				
47.83	1.112				
48.67	1.111				
49.5	1.111	5.48			
50.33	1.111				

51.17	1.111	
52.0	1.111	
52.83	1.110	
53.67	1.110	5.48
54.5	1.110	
55.33	1.110	
56.17	1.110	
57.0	1.110	
57.83	1.110	
58.67	1.109	
59.5	1.109	

APPENDIX B: SKYMAPPER PHOTOMETRY

Photometry obtained by the SkyMapper telescope around the dates of the Deeper, Wider, Faster programmes. Photometric measurements are obtained from raw or subtracted images (see origin column) depending on template and coverage availability using the SkyMapper Transient Survey pipeline. See Section 5.3 for more details.

candidate	date (UTC)	filter	mag	mag_err	maglim_arr	origin
DWF17a	2017-02-07T16:31:59	<i>g</i>	-	-	19.56	raw
DWF17a	2017-02-07T16:53:51	<i>r</i>	-	-	20.43	raw
DWF17a	2017-02-22T12:01:39	<i>g</i>	-	-	21.48	raw
DWF17a	2017-02-22T12:25:17	<i>r</i>	-	-	21.11	raw
DWF17a	2017-02-27T11:52:05	<i>g</i>	-	-	21.46	raw
DWF17a	2017-02-27T13:17:48	<i>r</i>	-	-	21.20	raw
DWF17a	2017-03-08T15:53:42	<i>g</i>	-	-	20.27	raw
DWF17a	2018-06-11T09:15:26	<i>g</i>	-	-	21.06	raw
DWF17a	2018-06-11T09:17:29	<i>g</i>	-	-	21.05	raw
DWF17a	2018-06-11T09:19:30	<i>r</i>	-	-	20.63	raw
DWF17a	2018-06-11T09:21:30	<i>r</i>	-	-	20.57	raw
DWF17a	2018-06-21T08:49:19	<i>r</i>	-	-	20.28	raw
DWF17a	2018-06-21T08:51:19	<i>g</i>	-	-	20.24	raw
DWF17a	2018-06-25T08:43:13	<i>g</i>	-	-	20.17	raw
DWF17a	2018-06-25T08:45:13	<i>r</i>	-	-	20.29	raw
DWF17c	2017-02-07T16:31:59	<i>g</i>	-	-	19.28	raw
DWF17c	2017-02-07T16:53:51	<i>r</i>	-	-	20.11	raw
DWF17c	2017-02-22T12:01:39	<i>g</i>	-	-	21.42	raw
DWF17c	2017-02-22T12:25:17	<i>r</i>	-	-	20.88	raw
DWF17c	2017-02-27T11:52:05	<i>g</i>	-	-	21.42	raw
DWF17c	2017-02-27T13:17:48	<i>r</i>	-	-	21.06	raw
DWF17c	2017-03-08T15:53:42	<i>g</i>	-	-	20.17	raw
DWF17c	2018-06-11T09:15:26	<i>g</i>	-	-	21.00	raw
DWF17c	2018-06-11T09:17:29	<i>g</i>	-	-	21.00	raw
DWF17c	2018-06-11T09:19:30	<i>r</i>	-	-	20.59	raw
DWF17c	2018-06-11T09:21:30	<i>r</i>	-	-	20.48	raw
DWF17c	2018-06-21T08:49:19	<i>r</i>	-	-	20.20	raw
DWF17c	2018-06-21T08:51:19	<i>g</i>	-	-	20.13	raw
DWF17c	2018-06-25T08:43:13	<i>g</i>	-	-	20.13	raw
DWF17c	2018-06-25T08:45:13	<i>r</i>	-	-	20.21	raw
DWF17f	2017-02-07T16:31:59	<i>g</i>	-	-	19.46	raw
DWF17f	2017-02-07T16:53:51	<i>r</i>	-	-	20.19	raw
DWF17f	2017-02-22T12:01:39	<i>g</i>	-	-	21.36	raw
DWF17f	2017-02-22T12:25:17	<i>r</i>	-	-	20.92	raw
DWF17f	2017-02-27T11:52:05	<i>g</i>	-	-	21.36	raw
DWF17f	2017-02-27T13:17:48	<i>r</i>	-	-	21.05	raw
DWF17f	2017-03-08T15:53:42	<i>g</i>	-	-	20.22	raw
DWF17f	2018-06-11T09:15:26	<i>g</i>	-	-	20.99	raw
DWF17f	2018-06-11T09:17:29	<i>g</i>	-	-	21.10	raw
DWF17f	2018-06-11T09:19:30	<i>r</i>	-	-	20.64	raw
DWF17f	2018-06-11T09:21:30	<i>r</i>	-	-	20.46	raw
DWF17f	2018-06-21T08:49:19	<i>r</i>	-	-	20.28	raw
DWF17f	2018-06-21T08:51:19	<i>g</i>	-	-	20.23	raw
DWF17f	2018-06-25T08:43:13	<i>g</i>	-	-	20.15	raw
DWF17f	2018-06-25T08:45:13	<i>r</i>	-	-	20.21	raw
DWF17g	2017-02-07T16:31:59	<i>g</i>	-	-	19.56	raw

DWF17g	2017-02-07T16:53:51	<i>r</i>	-	-	20.43	raw
DWF17g	2017-02-22T12:01:39	<i>g</i>	21.02	0.10	21.48	raw
DWF17g	2017-02-22T12:25:17	<i>r</i>	20.18	0.07	21.11	raw
DWF17g	2017-02-27T11:52:05	<i>g</i>	21.24	0.12	21.46	raw
DWF17g	2017-02-27T13:17:48	<i>r</i>	20.21	0.06	21.20	raw
DWF17g	2017-03-08T15:53:42	<i>g</i>	-	-	20.27	raw
DWF17g	2018-06-11T09:15:26	<i>g</i>	-	-	21.06	raw
DWF17g	2018-06-11T09:17:29	<i>g</i>	-	-	21.05	raw
DWF17g	2018-06-11T09:19:30	<i>r</i>	-	-	20.63	raw
DWF17g	2018-06-11T09:21:30	<i>r</i>	-	-	20.57	raw
DWF17g	2018-06-21T08:49:19	<i>r</i>	-	-	20.28	raw
DWF17g	2018-06-21T08:51:19	<i>g</i>	-	-	20.24	raw
DWF17g	2018-06-25T08:43:13	<i>g</i>	-	-	20.17	raw
DWF17g	2018-06-25T08:45:13	<i>r</i>	-	-	20.29	raw
DWF17k	2017-01-21T11:07:04	<i>g</i>	-	-	20.98	raw
DWF17k	2017-01-21T11:09:04	<i>r</i>	-	-	20.73	raw
DWF17k	2017-01-22T10:55:04	<i>g</i>	-	-	21.37	raw
DWF17k	2017-01-22T10:57:04	<i>r</i>	-	-	20.87	raw
DWF17k	2017-02-12T10:33:07	<i>v</i>	-	-	16.86	raw
DWF17k	2017-02-13T10:41:16	<i>v</i>	-	-	18.51	raw
DWF17k	2017-02-13T10:43:17	<i>v</i>	-	-	19.11	raw
DWF17k	2017-02-13T10:45:18	<i>v</i>	-	-	18.98	raw
DWF17k	2017-02-13T10:47:18	<i>v</i>	-	-	18.04	raw
DWF17k	2017-02-14T13:02:15	<i>v</i>	-	-	18.48	raw
DWF17k	2017-02-14T13:04:15	<i>v</i>	-	-	18.44	raw
DWF17k	2017-02-14T13:08:16	<i>v</i>	-	-	18.28	raw
DWF17k	2017-02-20T10:49:12	<i>v</i>	-	-	19.55	raw
DWF17k	2017-02-20T10:51:12	<i>v</i>	-	-	18.77	raw
DWF17k	2017-02-27T10:15:52	<i>g</i>	-	-	21.46	raw
DWF17k	2017-02-27T10:40:47	<i>r</i>	-	-	21.10	sub
DWF17k	2017-02-27T10:15:52	<i>g</i>	-	-	21.46	sub
DWF17k	2017-02-27T10:40:47	<i>r</i>	-	-	21.10	sub
DWF17x	2017-01-21T11:07:04	<i>g</i>	-	-	20.81	raw
DWF17x	2017-01-21T11:09:04	<i>r</i>	-	-	20.71	raw
DWF17x	2017-01-22T10:55:04	<i>g</i>	-	-	21.27	raw
DWF17x	2017-01-22T10:57:04	<i>r</i>	-	-	20.72	raw
DWF17x	2017-02-12T10:33:07	<i>v</i>	-	-	16.87	raw
DWF17x	2017-02-13T10:41:16	<i>v</i>	-	-	18.48	raw
DWF17x	2017-02-13T10:43:17	<i>v</i>	-	-	19.07	raw
DWF17x	2017-02-13T10:45:18	<i>v</i>	-	-	18.99	raw
DWF17x	2017-02-13T10:47:18	<i>v</i>	-	-	17.83	raw
DWF17x	2017-02-14T13:02:15	<i>v</i>	-	-	18.42	raw
DWF17x	2017-02-14T13:04:15	<i>v</i>	-	-	18.41	raw
DWF17x	2017-02-14T13:08:16	<i>v</i>	-	-	18.17	raw
DWF17x	2017-02-20T10:49:12	<i>v</i>	-	-	19.40	raw
DWF17x	2017-02-20T10:51:12	<i>v</i>	-	-	18.48	raw
DWF17x	2017-02-27T10:15:52	<i>g</i>	-	-	21.35	raw
DWF17x	2017-02-27T10:40:47	<i>r</i>	-	-	21.00	raw
DWF17x	2017-02-27T10:15:52	<i>g</i>	-	-	21.35	sub
DWF17x	2017-02-27T10:40:47	<i>r</i>	-	-	21.00	sub
DWF17ao	2017-01-22T10:51:03	<i>g</i>	-	-	21.57	raw
DWF17ao	2017-01-22T10:53:03	<i>r</i>	-	-	21.25	raw
DWF17ao	2017-02-27T10:13:52	<i>g</i>	-	-	21.52	raw
DWF17ao	2017-02-27T10:38:47	<i>r</i>	-	-	21.09	raw
DWF17ao	2017-02-27T10:13:52	<i>g</i>	-	-	21.52	sub
DWF17ao	2017-02-27T10:38:47	<i>r</i>	-	-	21.09	sub
DWF17ax	2017-01-21T11:03:02	<i>g</i>	-	-	21.43	raw
DWF17ax	2017-01-21T11:05:03	<i>r</i>	-	-	20.93	raw
DWF17ax	2017-01-22T10:51:03	<i>g</i>	-	-	21.46	raw
DWF17ax	2017-01-22T10:53:03	<i>r</i>	-	-	21.23	raw
DWF17ax	2017-02-27T10:13:52	<i>g</i>	-	-	21.42	raw
DWF17ax	2017-02-27T10:38:47	<i>r</i>	-	-	21.03	raw
DWF17ax	2017-02-27T10:13:52	<i>g</i>	-	-	21.42	sub
DWF17ax	2017-02-27T10:38:47	<i>r</i>	-	-	21.03	sub

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