

APPENDIX A: STANDARDS & PHOTOMETRY

Table A1. Pan-STARRS sources used for calibration of the AT 2016dah photometry.

#	PANSTARRS ID	R.A. [J2000]	Dec. [J2000]	u' [mag]	g [mag]	r [mag]	i [mag]	z [mag]
001	156090110644167056	00:44:15.463	40:04:49.243	17.656 ± 0.009	16.3037 ± 0.0033	15.8897 ± 0.0022	15.7505 ± 0.0029	15.7308 ± 0.0063
002	156160110656529961	00:44:15.760	40:08:27.989	...	17.9499 ± 0.0054	17.0009 ± 0.0028	16.5633 ± 0.0036	16.3556 ± 0.0055
003	156130110677692991	00:44:16.260	40:06:37.018	...	17.7762 ± 0.0032	16.5773 ± 0.0045	15.7959 ± 0.0033	15.4573 ± 0.0023
004	156200110699024800	00:44:16.773	40:10:12.546	18.554 ± 0.015	17.3553 ± 0.0038	16.9734 ± 0.0040	16.8323 ± 0.0019	16.8126 ± 0.0062
005	156130110738743484	00:44:17.733	40:06:38.571	...	17.2886 ± 0.0038	16.7190 ± 0.0024	16.4995 ± 0.0024	16.4233 ± 0.0046
006	156200110751752256	00:44:18.039	40:10:04.912	18.353 ± 0.013	17.1149 ± 0.0042	16.7029 ± 0.0021	16.5488 ± 0.0023	16.5033 ± 0.0050
007	156210110791621242	00:44:18.996	40:10:31.895	...	17.4554 ± 0.0046	16.7802 ± 0.0044	16.5194 ± 0.0023	16.4190 ± 0.0027
008	156180110796444059	00:44:19.118	40:09:10.299	...	17.4498 ± 0.0060	16.7872 ± 0.0016	16.5211 ± 0.0055	16.4331 ± 0.0022
009	156120110839225356	00:44:20.143	40:06:14.152	...	18.9666 ± 0.0074	17.8602 ± 0.0024	17.3163 ± 0.0030	17.0799 ± 0.0046
010	156170110843570983	00:44:20.248	40:08:31.062	...	18.4622 ± 0.0073	17.9648 ± 0.0031	17.7830 ± 0.0022	17.7251 ± 0.0130
011	156100110880806753	00:44:21.142	40:05:18.355	...	18.9225 ± 0.0037	18.1179 ± 0.0022	17.7768 ± 0.0034	17.6344 ± 0.0090
012	156170110881700180	00:44:21.161	40:08:28.679	(18.023 ± 0.011)	16.7599 ± 0.0043	16.3255 ± 0.0030	16.1495 ± 0.0024	16.1035 ± 0.0040
013	156170110937089548	00:44:22.491	40:08:56.767	...	18.2470 ± 0.0045	17.8241 ± 0.0049	17.6634 ± 0.0031	17.6317 ± 0.0048
014	156110110947737552	00:44:22.748	40:05:50.745	17.474 ± 0.009	16.1101 ± 0.0032	15.7018 ± 0.0016	15.5640 ± 0.0014	15.5486 ± 0.0027
015	156140110968363948	00:44:23.242	40:07:09.977	18.521 ± 0.014	17.2107 ± 0.0032	16.8246 ± 0.0037	16.7036 ± 0.0032	16.6802 ± 0.0038
016	156120110986003306	00:44:23.665	40:06:08.006	17.625 ± 0.009	16.3398 ± 0.0045	15.9266 ± 0.0020	15.7504 ± 0.0033	15.7170 ± 0.0021
017	156190111022894111	00:44:24.557	40:09:40.621	17.376 ± 0.008	16.2472 ± 0.0016	15.8933 ± 0.0018	15.7477 ± 0.0012	15.7404 ± 0.0046
018	156180111027502042	00:44:24.664	40:09:04.231	...	17.7604 ± 0.0026	16.6848 ± 0.0037	16.1917 ± 0.0035	15.9631 ± 0.0038
019	156270111030390210	00:44:24.734	40:13:28.853	18.784 ± 0.017	16.4664 ± 0.0055	15.6159 ± 0.0208	15.2476 ± 0.0080	15.1235 ± 0.0328
020	156180111061945695	00:44:25.481	40:09:15.163	...	17.2991 ± 0.0048	16.0732 ± 0.0037	15.2836 ± 0.0011	14.9479 ± 0.0020
021	156150111063803716	00:44:25.533	40:07:39.250	...	18.9109 ± 0.0063	18.5321 ± 0.0043	18.3744 ± 0.0055	18.3251 ± 0.0068
022	156250111084234164	00:44:26.024	40:12:40.610	...	18.7826 ± 0.0095	17.9222 ± 0.0045	17.5841 ± 0.0029	17.4480 ± 0.0036
023	156260111142147046	00:44:27.418	40:13:19.241	18.250 ± 0.012	17.2940 ± 0.0058	16.9377 ± 0.0034	16.7916 ± 0.0019	16.7554 ± 0.0097
024	156150111144823591	00:44:27.480	40:07:38.883	17.716 ± 0.010	16.3153 ± 0.0035	15.8851 ± 0.0033	15.7374 ± 0.0030	15.7190 ± 0.0041
025	156170111248306803	00:44:29.967	40:08:48.419	16.577 ± 0.006	15.4359 ± 0.0049	15.0985 ± 0.0026	14.9342 ± 0.0057	14.9332 ± 0.0030
026	156080111275685800	00:44:30.612	40:04:15.276	...	18.9093 ± 0.0096	18.1147 ± 0.0052	17.8069 ± 0.0070	17.6719 ± 0.0063
027	156200111355331018	00:44:32.527	40:10:01.064	16.817 ± 0.007	15.2252 ± 0.0056	14.7269 ± 0.0020	14.5159 ± 0.0023	14.4667 ± 0.0045
028	156160111365675490	00:44:32.777	40:08:14.647	...	17.5087 ± 0.0059	16.7696 ± 0.0065	16.4292 ± 0.0027	16.3030 ± 0.0037
029	156170111449725128	00:44:34.796	40:08:43.461	18.985 ± 0.019	16.8984 ± 0.0052	16.1868 ± 0.0044	15.8379 ± 0.0030	15.7116 ± 0.0021
030	156210111482725788	00:44:35.585	40:10:45.476	18.557 ± 0.023	17.2055 ± 0.0018	16.7729 ± 0.0046	16.5986 ± 0.0043	16.5463 ± 0.0064
031	156250111530102009	00:44:36.727	40:12:34.119	17.081 ± 0.007	15.5910 ± 0.0036	15.1553 ± 0.0046	15.0231 ± 0.0020	14.9932 ± 0.0048
032	156190111553904833	00:44:37.296	40:09:42.571	...	18.1512 ± 0.0038	18.0010 ± 0.0064	17.9360 ± 0.0067	17.9725 ± 0.0056
033	156130111559283525	00:44:37.425	40:06:38.660	...	17.7247 ± 0.0056	17.3124 ± 0.0055	17.1426 ± 0.0042	17.1016 ± 0.0061
034	156130111571613107	00:44:37.721	40:06:37.419	17.988 ± 0.011	16.8690 ± 0.0061	16.5936 ± 0.0035	16.4917 ± 0.0034	16.5074 ± 0.0061
035	156070111618596845	00:44:38.844	40:03:48.611	17.980 ± 0.011	16.5189 ± 0.0017	16.0192 ± 0.0040	15.8272 ± 0.0035	15.7755 ± 0.0018
036	156250111647920368	00:44:39.566	40:12:29.232	...	18.9874 ± 0.0065	17.8149 ± 0.0030	16.5121 ± 0.0036	15.9213 ± 0.0025
037	156240111671754193	00:44:40.122	40:12:10.677	...	17.5945 ± 0.0031	16.9671 ± 0.0039	16.7421 ± 0.0033	16.6680 ± 0.0048
038	156150111746426685	00:44:41.919	40:07:48.139	...	18.2600 ± 0.0065	17.9116 ± 0.0067	17.7913 ± 0.0042	17.7706 ± 0.0061
039	156070111814406664	00:44:43.551	40:03:48.107	...	16.6669 ± 0.0041	15.6304 ± 0.0026	15.1438 ± 0.0020	14.9027 ± 0.0044
040	156220111834228109	00:44:44.022	40:11:22.427	...	17.3595 ± 0.0036	16.7560 ± 0.0029	16.4975 ± 0.0032	16.3980 ± 0.0058
041	156100111856425487	00:44:44.559	40:05:14.551	...	18.5278 ± 0.0049	18.1143 ± 0.0062	17.9701 ± 0.0043	17.9240 ± 0.0169

Table A1 – *continued* Pan-STARRS sources used for calibration of the AT 2016dah photometry.

#	PANSTARRS ID	R.A. [J2000]	Dec. [J2000]	u' [mag]	g [mag]	r [mag]	i [mag]	z [mag]
042	156100111892817585	00:44:45.427	40:05:20.808	17.199 ± 0.008	15.8041 ± 0.0057	15.3620 ± 0.0019	15.1845 ± 0.0025	15.1476 ± 0.0126
043	156070111940992190	00:44:46.586	40:03:34.639	...	18.3213 ± 0.0041	17.1903 ± 0.0037	16.6294 ± 0.0033	16.3634 ± 0.0010
044	156140111960610721	00:44:47.060	40:07:00.256	18.373 ± 0.013	16.9415 ± 0.0034	16.5210 ± 0.0066	16.3430 ± 0.0045	16.3010 ± 0.0065
045	156220111972291992	00:44:47.337	40:11:04.077	...	18.9742 ± 0.0050	17.8405 ± 0.0110	17.3388 ± 0.0050	17.0969 ± 0.0052
046	156270111997920146	00:44:47.954	40:13:28.612	...	18.8844 ± 0.0061	18.5681 ± 0.0078	18.4496 ± 0.0066	18.4517 ± 0.0103
047	156180112021090440	00:44:48.507	40:08:59.410	...	17.2182 ± 0.0031	16.6114 ± 0.0029	16.3756 ± 0.0031	16.2984 ± 0.0046
048	156170112036494555	00:44:48.883	40:08:41.704	...	17.7909 ± 0.0037	17.3121 ± 0.0048	17.1169 ± 0.0041	17.0537 ± 0.0062
049	156140112044400367	00:44:49.074	40:06:59.142	(16.647 ± 0.006)	14.9905 ± 0.0051	14.4358 ± 0.0018	14.2234 ± 0.0040	14.1468 ± 0.0017
050	156160112058941640	00:44:49.421	40:08:02.987	...	18.2537 ± 0.0075	17.6608 ± 0.0030	17.4185 ± 0.0030	17.3486 ± 0.0010
051	156140112064600997	00:44:49.554	40:07:01.108	...	17.8526 ± 0.0284	17.4591 ± 0.0129	17.2538 ± 0.0141	16.9905 ± 0.0000
052	156190112071334793	00:44:49.714	40:09:42.490	17.103 ± 0.007	16.0337 ± 0.0042	15.7283 ± 0.0020	15.6207 ± 0.0028	15.6206 ± 0.0032
053	156210112090386021	00:44:50.174	40:10:46.171	18.419 ± 0.014	17.1505 ± 0.0042	16.7197 ± 0.0064	16.5693 ± 0.0037	16.5305 ± 0.0065
054	156260112105642907	00:44:50.538	40:13:06.771	18.814 ± 0.027	17.8051 ± 0.0036	17.4463 ± 0.0034	17.2856 ± 0.0034	17.2371 ± 0.0049
055	156080112111492006	00:44:50.679	40:04:04.108	18.867 ± 0.017	17.6831 ± 0.0065	17.3386 ± 0.0045	17.2115 ± 0.0044	17.1936 ± 0.0047
056	156230112120840037	00:44:50.905	40:11:28.214	...	17.9317 ± 0.0053	17.3185 ± 0.0065	17.0502 ± 0.0033	16.9520 ± 0.0031
057	156220112125484788	00:44:51.013	40:11:12.472	...	17.8751 ± 0.0089	17.2358 ± 0.0047	17.0000 ± 0.0044	16.9088 ± 0.0121
058	156160112133718198	00:44:51.211	40:08:22.672	...	18.7408 ± 0.0127	18.3304 ± 0.0144	17.9929 ± 0.0174	17.7062 ± 0.0375
059	156150112237426105	00:44:53.694	40:07:46.533	15.898 ± 0.005	14.7233 ± 0.0045	14.3935 ± 0.0043	14.2726 ± 0.0024	14.2762 ± 0.0011
060	156230112264116066	00:44:54.338	40:11:46.334	...	18.9226 ± 0.0058	18.3614 ± 0.0071	18.1427 ± 0.0037	18.0689 ± 0.0049
061	156230112299867553	00:44:55.203	40:11:50.765	18.320 ± 0.013	16.9859 ± 0.0066	16.5755 ± 0.0021	16.4268 ± 0.0038	16.4062 ± 0.0059
062	156080112355827513	00:44:56.539	40:04:20.589	...	17.0847 ± 0.0038	16.3731 ± 0.0030	16.0999 ± 0.0026	15.9926 ± 0.0036
063	156230112419205551	00:44:58.064	40:11:44.771	18.122 ± 0.012	16.8436 ± 0.0038	16.4434 ± 0.0025	16.2965 ± 0.0034	16.2764 ± 0.0123
064	156120112421833902	00:44:58.129	40:06:09.748	(18.160 ± 0.012)	16.8911 ± 0.0024	16.4643 ± 0.0042	16.2820 ± 0.0024	16.2351 ± 0.0053
065	156170112473351838	00:44:59.359	40:08:33.627	...	16.8175 ± 0.0033	16.0500 ± 0.0021	15.7338 ± 0.0043	15.6020 ± 0.0039
066	156240112515723853	00:45:00.380	40:12:09.643	...	18.3057 ± 0.0047	17.4520 ± 0.0042	17.1155 ± 0.0028	16.9750 ± 0.0034
067	156120112520510950	00:45:00.495	40:06:00.926	...	18.5528 ± 0.0103	17.9829 ± 0.0058	17.7383 ± 0.0037	17.6381 ± 0.0053
068	156120112577062471	00:45:01.847	40:06:05.454	...	18.0864 ± 0.0037	17.7714 ± 0.0060	17.6525 ± 0.0029	17.6210 ± 0.0080
069	156260112600944712	00:45:02.421	40:13:12.236	...	18.7697 ± 0.0046	17.9717 ± 0.0029	17.6579 ± 0.0071	17.5353 ± 0.0038
070	156240112615634528	00:45:02.777	40:12:11.679	...	17.1378 ± 0.0030	16.5241 ± 0.0021	16.2635 ± 0.0027	16.1631 ± 0.0021
071	156260112632996376	00:45:03.189	40:13:17.220	...	18.9744 ± 0.0048	17.9458 ± 0.0038	17.4871 ± 0.0044	17.2691 ± 0.0037
072	156170112653313107	00:45:03.684	40:08:37.408	16.793 ± 0.007	15.5559 ± 0.0029	15.2125 ± 0.0060	15.0880 ± 0.0032	15.0924 ± 0.0042
073	156150112654247660	00:45:03.705	40:07:51.097	...	18.8042 ± 0.0051	17.6365 ± 0.0058	17.0592 ± 0.0038	16.8217 ± 0.0041
074	156160112695481787	00:45:04.696	40:08:03.441	18.916 ± 0.018	17.5036 ± 0.0076	17.0506 ± 0.0037	16.8692 ± 0.0032	16.8408 ± 0.0050
075	156060112703737890	00:45:04.890	40:03:21.676	16.502 ± 0.006	15.3819 ± 0.0045	15.0774 ± 0.0022	14.9836 ± 0.0028	14.9752 ± 0.0023
076	156190112707227760	00:45:04.976	40:09:51.340	...	17.4209 ± 0.0040	16.5761 ± 0.0025	16.2503 ± 0.0036	16.1257 ± 0.0047
077	156180112722824341	00:45:05.363	40:09:10.709	...	17.7212 ± 0.0033	16.4296 ± 0.0038	15.1527 ± 0.0035	14.5868 ± 0.0024
078	156230112766257506	00:45:06.393	40:11:50.609	18.514 ± 0.014	16.9715 ± 0.0057	16.4353 ± 0.0028	16.2072 ± 0.0029	16.1267 ± 0.0050
079	156140112805430473	00:45:07.334	40:06:59.460	...	18.9082 ± 0.0052	18.0323 ± 0.0043	17.6702 ± 0.0040	17.5090 ± 0.0057
080	156110112841332677	00:45:08.194	40:05:36.093	...	18.3729 ± 0.0041	17.6032 ± 0.0020	17.2863 ± 0.0037	17.1517 ± 0.0098
081	156070112897527932	00:45:09.549	40:03:51.737	16.513 ± 0.006	14.9578 ± 0.0019	14.5189 ± 0.0029	14.3702 ± 0.0017	14.3394 ± 0.0038

Table A2. SDSS sources used for calibration of the AT 2017fyp photometry.

#	SDSS ID	R.A. [J2000]	Dec. [J2000]	u' [mag]	g [mag]	r [mag]	i [mag]	z [mag]
001	J004502.95+395457.1	00:45:02.960	39:54:57.139	18.268 ± 0.013	17.159 ± 0.005	16.844 ± 0.005	16.723 ± 0.005	16.683 ± 0.009
002	J004502.96+394717.8	00:45:02.967	39:47:17.826	18.498 ± 0.019	16.936 ± 0.004	16.380 ± 0.004	16.316 ± 0.004	16.192 ± 0.008
003	J004508.22+394731.5	00:45:08.220	39:47:31.546	17.904 ± 0.014	16.350 ± 0.003	15.703 ± 0.003	15.582 ± 0.003	15.447 ± 0.005
004	J004508.44+395313.0	00:45:08.444	39:53:13.038	18.243 ± 0.017	17.034 ± 0.004	16.598 ± 0.004	16.382 ± 0.004	16.359 ± 0.008
005	J004508.44+395312.9	00:45:08.447	39:53:12.991	18.290 ± 0.013	17.051 ± 0.005	16.578 ± 0.004	16.408 ± 0.005	16.343 ± 0.008
006	J004509.99+395522.6	00:45:09.999	39:55:22.681	18.902 ± 0.026	17.539 ± 0.005	17.034 ± 0.004	16.753 ± 0.005	16.671 ± 0.011
007	J004510.00+395522.7	00:45:10.003	39:55:22.721	18.967 ± 0.018	17.559 ± 0.005	17.005 ± 0.005	16.795 ± 0.005	16.699 ± 0.009
008	J004510.43+395257.2	00:45:10.439	39:52:57.245	18.451 ± 0.019	17.315 ± 0.004	16.959 ± 0.004	16.764 ± 0.005	16.743 ± 0.011
009	J004510.44+395257.1	00:45:10.443	39:52:57.173	18.460 ± 0.014	17.319 ± 0.005	16.933 ± 0.005	16.782 ± 0.005	16.755 ± 0.009
010	J004510.52+394700.9	00:45:10.520	39:47:00.906	18.155 ± 0.016	16.286 ± 0.003	15.473 ± 0.003	15.285 ± 0.003	15.104 ± 0.004
011	J004512.17+395339.0	00:45:12.179	39:53:39.001	18.342 ± 0.018	17.201 ± 0.004	16.990 ± 0.004	16.843 ± 0.005	16.888 ± 0.012
012	J004512.18+395338.9	00:45:12.183	39:53:38.933	18.369 ± 0.013	17.218 ± 0.005	16.954 ± 0.005	16.877 ± 0.005	16.869 ± 0.010
013	J004512.93+395424.2	00:45:12.935	39:54:24.296	18.984 ± 0.019	17.937 ± 0.006	17.719 ± 0.006	17.664 ± 0.007	17.647 ± 0.016
014	J004512.93+395424.4	00:45:12.936	39:54:24.437	18.940 ± 0.027	17.896 ± 0.006	17.737 ± 0.006	17.564 ± 0.007	17.696 ± 0.022
015	J004514.02+395155.0	00:45:14.028	39:51:55.051	17.833 ± 0.010	15.520 ± 0.004	14.588 ± 0.004	14.267 ± 0.004	14.101 ± 0.004
016	J004514.03+395155.1	00:45:14.039	39:51:55.102	17.738 ± 0.013	15.525 ± 0.003	14.587 ± 0.003	14.252 ± 0.003	14.094 ± 0.003
017	J004516.57+395054.1	00:45:16.580	39:50:54.168	18.300 ± 0.017	17.161 ± 0.004	16.653 ± 0.004	16.452 ± 0.004	16.421 ± 0.009
018	J004517.51+395017.2	00:45:17.511	39:50:17.290	17.133 ± 0.009	16.049 ± 0.003	15.540 ± 0.003	15.396 ± 0.003	15.393 ± 0.005
019	J004523.08+395417.6	00:45:23.088	39:54:17.629	17.639 ± 0.012	16.000 ± 0.003	15.387 ± 0.003	15.233 ± 0.003	15.166 ± 0.005
020	J004523.09+395417.5	00:45:23.091	39:54:17.590	17.686 ± 0.010	15.962 ± 0.004	15.379 ± 0.004	15.211 ± 0.004	15.153 ± 0.005
021	J004523.18+394929.4	00:45:23.184	39:49:29.402	17.796 ± 0.013	16.383 ± 0.003	15.727 ± 0.003	15.520 ± 0.003	15.464 ± 0.005
022	J004523.95+395257.0	00:45:23.953	39:52:57.011	17.868 ± 0.014	16.641 ± 0.003	16.177 ± 0.003	15.970 ± 0.004	15.910 ± 0.007
023	J004524.26+394604.0	00:45:24.263	39:46:04.048	18.617 ± 0.021	17.050 ± 0.004	16.307 ± 0.004	16.156 ± 0.004	15.987 ± 0.007
024	J004526.61+395151.8	00:45:26.611	39:51:51.811	18.229 ± 0.017	16.359 ± 0.003	15.694 ± 0.003	15.437 ± 0.003	15.377 ± 0.005
025	J004531.32+395120.7	00:45:31.326	39:51:20.801	16.964 ± 0.008	15.745 ± 0.003	15.344 ± 0.003	15.165 ± 0.003	15.099 ± 0.005
026	J004531.75+394710.2	00:45:31.751	39:47:10.277	18.576 ± 0.020	17.462 ± 0.005	16.863 ± 0.004	16.708 ± 0.004	16.652 ± 0.010
027	J004539.23+395519.7	00:45:39.230	39:55:19.733	16.591 ± 0.007	15.532 ± 0.003	14.853 ± 0.003	14.869 ± 0.003	14.612 ± 0.004
028	J004539.23+395150.7	00:45:39.234	39:51:50.785	17.470 ± 0.011	16.348 ± 0.003	15.861 ± 0.003	15.683 ± 0.004	15.545 ± 0.006
029	J004539.94+395310.7	00:45:39.948	39:53:10.795	18.045 ± 0.016	16.819 ± 0.004	16.340 ± 0.003	16.115 ± 0.004	15.923 ± 0.007
030	J004542.02+395540.1	00:45:42.029	39:55:40.102	18.993 ± 0.029	17.728 ± 0.005	17.347 ± 0.005	17.022 ± 0.005	16.891 ± 0.012
031	J004542.29+395356.0	00:45:42.297	39:53:56.011	18.530 ± 0.021	17.328 ± 0.005	16.939 ± 0.004	16.686 ± 0.005	16.567 ± 0.010
032	J004542.81+395446.3	00:45:42.812	39:54:46.372	18.512 ± 0.021	17.362 ± 0.005	17.083 ± 0.004	16.832 ± 0.005	16.765 ± 0.011
033	J004543.05+395330.1	00:45:43.058	39:53:30.196	18.870 ± 0.027	17.360 ± 0.005	16.792 ± 0.004	16.485 ± 0.004	16.282 ± 0.008
034	J004543.89+395208.7	00:45:43.894	39:52:08.796	18.163 ± 0.017	16.087 ± 0.003	15.068 ± 0.003	14.900 ± 0.003	14.602 ± 0.004
035	J004544.66+394854.3	00:45:44.670	39:48:54.349	18.449 ± 0.019	17.137 ± 0.004	16.630 ± 0.004	16.374 ± 0.004	16.327 ± 0.008
036	J004544.81+395228.5	00:45:44.818	39:52:28.564	18.669 ± 0.023	17.366 ± 0.005	16.919 ± 0.004	16.668 ± 0.005	16.548 ± 0.010
037	J004545.84+395159.0	00:45:45.848	39:51:59.008	18.294 ± 0.019	16.478 ± 0.003	15.672 ± 0.003	15.483 ± 0.003	15.233 ± 0.005
038	J004546.48+395124.4	00:45:46.482	39:51:24.433	16.877 ± 0.008	15.842 ± 0.003	15.309 ± 0.003	15.254 ± 0.003	15.080 ± 0.005
039	J004549.07+394615.8	00:45:49.076	39:46:15.888	17.260 ± 0.010	15.928 ± 0.003	15.377 ± 0.003	15.183 ± 0.003	15.127 ± 0.005
040	J004549.20+395351.2	00:45:49.200	39:53:51.259	18.048 ± 0.016	17.025 ± 0.004	16.762 ± 0.004	16.573 ± 0.005	16.480 ± 0.010
041	J004550.16+395505.2	00:45:50.162	39:55:05.243	18.402 ± 0.020	16.259 ± 0.004	15.089 ± 0.003	14.884 ± 0.003	14.497 ± 0.004
042	J004552.73+394907.4	00:45:52.733	39:49:07.428	17.989 ± 0.015	15.952 ± 0.003	15.045 ± 0.003	14.805 ± 0.003	14.546 ± 0.004

Table A3. Photometry of nova AT2016dah as obtained by ASAS-SN (also see [Nicolas et al. 2016](#)), IPTF, and the LT.

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2016 Jul 16.067	4.107	585.064	585.069	LT IO:O	3 × 120	<i>u'</i>	119.0	15.908 ± 0.048
2016 Jul 17.069	5.109	586.067	586.072	LT IO:O	3 × 120	<i>u'</i>	141.8	16.254 ± 0.047
2016 Jul 18.059	6.099	587.057	587.061	LT IO:O	3 × 120	<i>u'</i>	68.5	16.630 ± 0.048
2016 Jul 19.055	7.095	588.052	588.057	LT IO:O	3 × 120	<i>u'</i>	41.0	16.960 ± 0.053
2016 Jul 22.095	10.135	591.093	591.097	LT IO:O	3 × 120	<i>u'</i>	65.9	17.256 ± 0.051
2016 Jul 25.050	13.090	594.047	594.052	LT IO:O	3 × 120	<i>u'</i>	52.3	17.551 ± 0.051
2016 Jul 27.053	15.093	596.051	596.056	LT IO:O	3 × 120	<i>u'</i>	20.8	18.201 ± 0.073
2016 Aug 03.123	22.163	603.121	603.125	LT IO:O	3 × 120	<i>u'</i>	45.1	18.513 ± 0.057
2016 Aug 09.043	28.083	609.040	609.045	LT IO:O	3 × 120	<i>u'</i>	14.8	18.712 ± 0.117
2016 Aug 17.047	36.087	617.045	617.050	LT IO:O	3 × 120	<i>u'</i>	12.1	19.479 ± 0.102
2016 Aug 19.078	38.118	619.075	619.080	LT IO:O	3 × 120	<i>u'</i>	9.1	19.541 ± 0.130
2016 Aug 21.108	40.148	621.106	621.110	LT IO:O	3 × 120	<i>u'</i>	3.2	18.315 ± 0.348
2016 Aug 27.050	46.090	627.048	627.052	LT IO:O	3 × 120	<i>u'</i>	13.3	19.845 ± 0.099
2016 Aug 29.113	48.153	629.111	629.116	LT IO:O	3 × 120	<i>u'</i>	21.6	19.793 ± 0.082
2016 Sep 06.090	56.130	637.088	637.092	LT IO:O	3 × 120	<i>u'</i>	15.6	20.622 ± 0.084
2016 Sep 13.982	64.022	644.980	644.984	LT IO:O	3 × 120	<i>u'</i>	3.5	20.801 ± 0.316
2016 Sep 24.074	74.114	655.069	655.079	LT IO:O	3 × 300	<i>u'</i>	9.1	21.220 ± 0.132
2016 Sep 28.092	78.132	659.087	659.098	LT IO:O	3 × 300	<i>u'</i>	39.2	19.655 ± 0.063
2016 Dec 07.912	148.952	729.902	729.923	LT IO:O	3 × 600	<i>u'</i>	5.4	21.508 ± 0.209
2016 Jul 16.072	4.112	585.069	585.074	LT IO:O	3 × 120	<i>B</i>	215.3	17.160 ± 0.012
2016 Jul 17.074	5.114	586.072	586.077	LT IO:O	3 × 120	<i>B</i>	201.7	17.476 ± 0.011
2016 Jul 18.064	6.104	587.062	587.066	LT IO:O	3 × 120	<i>B</i>	132.3	17.768 ± 0.013
2016 Jul 19.059	7.099	588.057	588.062	LT IO:O	3 × 120	<i>B</i>	76.2	18.023 ± 0.018
2016 Jul 22.100	10.140	591.098	591.102	LT IO:O	3 × 120	<i>B</i>	57.3	18.504 ± 0.022
2016 Jul 25.055	13.095	594.052	594.057	LT IO:O	3 × 120	<i>B</i>	86.9	18.760 ± 0.017
2016 Jul 27.058	15.098	596.056	596.061	LT IO:O	3 × 120	<i>B</i>	24.2	19.472 ± 0.048
2016 Aug 03.128	22.168	603.125	603.130	LT IO:O	3 × 120	<i>B</i>	82.9	19.775 ± 0.018
2016 Aug 09.048	28.088	609.045	609.050	LT IO:O	3 × 120	<i>B</i>	25.5	20.225 ± 0.045
2016 Aug 17.052	36.092	617.050	617.055	LT IO:O	3 × 120	<i>B</i>	24.6	20.390 ± 0.045
2016 Aug 19.083	38.123	619.080	619.085	LT IO:O	3 × 120	<i>B</i>	17.1	20.664 ± 0.065
2016 Aug 21.113	40.153	621.111	621.115	LT IO:O	3 × 120	<i>B</i>	—	> 18.9
2016 Aug 27.055	46.095	627.053	627.057	LT IO:O	3 × 120	<i>B</i>	37.1	21.152 ± 0.031
2016 Aug 29.118	48.158	629.116	629.121	LT IO:O	3 × 120	<i>B</i>	44.9	21.174 ± 0.027
2016 Sep 06.095	56.135	637.093	637.097	LT IO:O	3 × 120	<i>B</i>	30.8	21.538 ± 0.037
2016 Sep 13.987	64.027	644.985	644.989	LT IO:O	3 × 120	<i>B</i>	9.4	21.756 ± 0.117
2016 Sep 24.085	74.125	655.080	655.091	LT IO:O	3 × 300	<i>B</i>	16.1	22.154 ± 0.068
2016 Sep 28.104	78.144	659.098	659.109	LT IO:O	3 × 300	<i>B</i>	26.0	21.801 ± 0.043
2016 Dec 07.934	148.974	729.923	729.944	LT IO:O	3 × 600	<i>B</i>	2.6	(22.723 ± 0.425)
2016 Jul 11.52	-0.44	...	...	ASAS-SN	3 × 60	<i>V</i>	...	> 17.0
2016 Jul 13.52	1.56	...	...	ASAS-SN	3 × 60	<i>V</i>	...	16.8 ± 0.2
2016 Jul 13.52	1.56	...	...	ASAS-SN	3 × 60	<i>V</i>	...	16.6 ± 0.2
2016 Jul 13.52	1.56	...	...	ASAS-SN	3 × 60	<i>V</i>	...	> 16.8
2016 Jul 14.54	2.58	...	...	ASAS-SN	3 × 60	<i>V</i>	...	16.2 ± 0.1
2016 Jul 14.54	2.58	...	...	ASAS-SN	3 × 60	<i>V</i>	...	16.6 ± 0.2
2016 Jul 14.54	2.58	...	...	ASAS-SN	3 × 60	<i>V</i>	...	16.5 ± 0.2
2016 Jul 16.077	4.117	585.074	585.079	LT IO:O	3 × 120	<i>V</i>	331.2	16.939 ± 0.013
2016 Jul 17.079	5.119	586.077	586.082	LT IO:O	3 × 120	<i>V</i>	314.3	17.310 ± 0.013
2016 Jul 17.59	5.63	...	...	ASAS-SN	3 × 60	<i>V</i>	...	> 16.8
2016 Jul 18.069	6.109	587.067	587.071	LT IO:O	3 × 120	<i>V</i>	185.5	17.631 ± 0.014
2016 Jul 19.064	7.104	588.062	588.067	LT IO:O	3 × 120	<i>V</i>	133.8	17.890 ± 0.015
2016 Jul 22.105	10.145	591.103	591.107	LT IO:O	3 × 120	<i>V</i>	98.1	18.297 ± 0.017
2016 Jul 25.060	13.100	594.057	594.062	LT IO:O	3 × 120	<i>V</i>	96.7	18.674 ± 0.018
2016 Jul 27.063	15.103	596.061	596.066	LT IO:O	3 × 120	<i>V</i>	29.2	19.317 ± 0.040
2016 Aug 03.133	22.173	603.130	603.135	LT IO:O	3 × 120	<i>V</i>	81.8	19.919 ± 0.019
2016 Aug 09.053	28.093	609.050	609.055	LT IO:O	3 × 120	<i>V</i>	20.4	20.443 ± 0.055
2016 Aug 17.057	36.097	617.055	617.059	LT IO:O	3 × 120	<i>V</i>	23.0	20.682 ± 0.049
2016 Aug 19.087	38.127	619.085	619.090	LT IO:O	3 × 120	<i>V</i>	12.1	20.748 ± 0.090
2016 Aug 21.118	40.158	621.116	621.120	LT IO:O	3 × 120	<i>V</i>	—	> 19.8
2016 Aug 27.060	46.100	627.058	627.062	LT IO:O	3 × 120	<i>V</i>	32.1	21.397 ± 0.036
2016 Aug 29.123	48.163	629.121	629.126	LT IO:O	3 × 120	<i>V</i>	35.5	21.386 ± 0.033

Table A3 – *continued* Photometry of nova AT 2016dah as obtained by ASAN-SN, iPTF, and the LT.

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2016 Sep 06.100	56.140	637.098	637.102	LT IO:O	3 × 120	V	26.4	21.646 ± 0.043
2016 Sep 13.992	64.032	644.990	644.994	LT IO:O	3 × 120	V	8.2	21.946 ± 0.133
2016 Sep 24.097	74.137	655.091	655.102	LT IO:O	3 × 300	V	12.6	22.057 ± 0.087
2016 Sep 28.115	78.155	659.109	659.120	LT IO:O	3 × 300	V	22.1	22.140 ± 0.051
2016 Dec 07.955	148.995	729.945	729.966	LT IO:O	3 × 600	V	2.6	(22.855 ± 0.419)
2016 Aug 25.40		...	...	iPTF CFH12K		g'	...	> 20.5
2016 Aug 26.40		...	...	iPTF CFH12K		g'	...	21.1 ± 0.2
2016 Jul 11.48	-0.48	...	...	iPTF CFH12K		r'	...	> 21.171
2016 Jul 12.44	0.48	...	...	iPTF CFH12K		r'	...	18.78 ± 0.07
2016 Jul 12.46	0.50	...	...	iPTF CFH12K		r'	...	18.72 ± 0.07
2016 Jul 13.47	1.51	...	...	iPTF CFH12K		r'	...	17.03 ± 0.06
2016 Jul 13.49	1.53	...	...	iPTF CFH12K		r'	...	17.0 ± 0.1
2016 Jul 14.44	2.48	...	...	iPTF CFH12K		r'	...	16.32 ± 0.06
2016 Jul 14.47	2.51	...	...	iPTF CFH12K		r'	...	16.37 ± 0.07
2016 Jul 15.43	3.47	...	...	iPTF CFH12K		r'	...	16.71 ± 0.07
2016 Jul 15.47	3.51	...	...	iPTF CFH12K		r'	...	16.69 ± 0.07
2016 Jul 16.082	4.122	585.079	585.084	LT IO:O	3 × 120	r'	545.0	16.876 ± 0.003
2016 Jul 16.42	4.46	...	...	iPTF CFH12K		r'	...	16.97 ± 0.06
2016 Jul 16.46	4.50	...	...	iPTF CFH12K		r'	...	16.97 ± 0.07
2016 Jul 17.084	5.124	586.082	586.086	LT IO:O	3 × 120	r'	550.5	17.125 ± 0.002
2016 Jul 17.42	5.46	...	...	iPTF CFH12K		r'	...	17.21 ± 0.09
2016 Jul 18.074	6.114	587.072	587.076	LT IO:O	3 × 120	r'	349.7	17.304 ± 0.003
2016 Jul 19.069	7.109	588.067	588.072	LT IO:O	3 × 120	r'	394.6	17.475 ± 0.003
2016 Jul 22.110	10.150	591.108	591.112	LT IO:O	3 × 120	r'	153.3	17.807 ± 0.007
2016 Jul 23.50	11.54	...	...	iPTF CFH12K		r'	...	18.0 ± 0.1
2016 Jul 25.064	13.104	594.062	594.067	LT IO:O	3 × 120	r'	207.4	18.128 ± 0.006
2016 Jul 26.48	14.52	...	...	iPTF CFH12K		r'	...	18.3 ± 0.01
2016 Jul 27.068	15.108	596.066	596.071	LT IO:O	3 × 120	r'	98.1	18.362 ± 0.011
2016 Jul 27.45	15.49	...	...	iPTF CFH12K		r'	...	18.33 ± 0.09
2016 Jul 27.49	15.53	...	...	iPTF CFH12K		r'	...	18.43 ± 0.08
2016 Jul 28.43	16.47	...	...	iPTF CFH12K		r'	...	18.40 ± 0.07
2016 Jul 28.48	16.52	...	...	iPTF CFH12K		r'	...	18.47 ± 0.08
2016 Jul 29.43	17.47	...	...	iPTF CFH12K		r'	...	18.58 ± 0.08
2016 Jul 29.47	17.51	...	...	iPTF CFH12K		r'	...	18.55 ± 0.07
2016 Jul 30.44	18.48	...	...	iPTF CFH12K		r'	...	18.68 ± 0.07
2016 Jul 31.46	19.50	...	...	iPTF CFH12K		r'	...	18.67 ± 0.08
2016 Aug 02.45	21.49	...	...	iPTF CFH12K		r'	...	18.77 ± 0.08
2016 Aug 02.49	21.53	...	...	iPTF CFH12K		r'	...	18.71 ± 0.07
2016 Aug 03.138	22.178	603.135	603.140	LT IO:O	3 × 120	r'	241.9	18.962 ± 0.005
2016 Aug 03.46	22.50	...	...	iPTF CFH12K		r'	...	18.99 ± 0.07
2016 Aug 03.49	22.53	...	...	iPTF CFH12K		r'	...	18.86 ± 0.08
2016 Aug 04.45	23.49	...	...	iPTF CFH12K		r'	...	18.95 ± 0.08
2016 Aug 04.49	23.53	...	...	iPTF CFH12K		r'	...	18.92 ± 0.08
2016 Aug 05.46	24.50	...	...	iPTF CFH12K		r'	...	19.06 ± 0.08
2016 Aug 05.49	24.53	...	...	iPTF CFH12K		r'	...	19.09 ± 0.08
2016 Aug 06.44	25.48	...	...	iPTF CFH12K		r'	...	19.12 ± 0.08
2016 Aug 06.48	25.52	...	...	iPTF CFH12K		r'	...	19.20 ± 0.07
2016 Aug 07.45	26.49	...	...	iPTF CFH12K		r'	...	19.18 ± 0.08
2016 Aug 07.49	26.53	...	...	iPTF CFH12K		r'	...	19.18 ± 0.07
2016 Aug 08.43	27.47	...	...	iPTF CFH12K		r'	...	19.29 ± 0.07
2016 Aug 08.48	27.52	...	...	iPTF CFH12K		r'	...	19.29 ± 0.07
2016 Aug 09.058	28.098	609.055	609.060	LT IO:O	3 × 120	r'	81.7	19.451 ± 0.013
2016 Aug 09.42	28.46	...	...	iPTF CFH12K		r'	...	19.34 ± 0.07
2016 Aug 09.46	28.50	...	...	iPTF CFH12K		r'	...	19.42 ± 0.09
2016 Aug 10.44	29.48	...	...	iPTF CFH12K		r'	...	19.53 ± 0.09
2016 Aug 11.39	30.43	...	...	iPTF CFH12K		r'	...	19.50 ± 0.09
2016 Aug 11.43	30.47	...	...	iPTF CFH12K		r'	...	19.44 ± 0.07
2016 Aug 17.062	36.102	617.060	617.064	LT IO:O	3 × 120	r'	61.6	19.927 ± 0.018
2016 Aug 19.092	38.132	619.090	619.095	LT IO:O	3 × 120	r'	41.9	20.116 ± 0.026
2016 Aug 21.123	40.163	621.120	621.125	LT IO:O	3 × 120	r'	7.7	20.631 ± 0.140

Table A3 – continued Photometry of nova AT2016dah as obtained by ASAN-SN, iPTF, and the LT.

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2016 Aug 27.065	46.105	627.063	627.067	LT IO:O	3 × 120	r'	74.7	20.791 ± 0.015
2016 Aug 29.128	48.168	629.126	629.131	LT IO:O	3 × 120	r'	58.1	20.836 ± 0.019
2016 Sep 06.105	56.145	637.103	637.107	LT IO:O	3 × 120	r'	46.4	21.342 ± 0.023
2016 Sep 13.997	64.037	644.995	644.999	LT IO:O	3 × 120	r'	11.3	21.726 ± 0.096
2016 Sep 24.108	74.148	655.102	655.113	LT IO:O	3 × 300	r'	24.5	21.966 ± 0.044
2016 Sep 28.126	78.166	659.121	659.131	LT IO:O	3 × 300	r'	26.2	22.182 ± 0.042
2016 Jul 16.087	4.127	585.084	585.089	LT IO:O	3 × 120	i'	464.6	16.801 ± 0.003
2016 Jul 17.089	5.129	586.087	586.091	LT IO:O	3 × 120	i'	469.7	17.115 ± 0.003
2016 Jul 18.079	6.119	587.077	587.081	LT IO:O	3 × 120	i'	383.1	17.415 ± 0.003
2016 Jul 19.074	7.114	588.072	588.077	LT IO:O	3 × 120	i'	350.8	17.723 ± 0.003
2016 Jul 22.115	10.155	591.113	591.117	LT IO:O	3 × 120	i'	124.7	18.145 ± 0.009
2016 Jul 25.069	13.109	594.067	594.072	LT IO:O	3 × 120	i'	129.8	18.624 ± 0.009
2016 Jul 27.073	15.113	596.071	596.076	LT IO:O	3 × 120	i'	39.4	19.134 ± 0.028
2016 Aug 03.143	22.183	603.140	603.145	LT IO:O	3 × 120	i'	83.4	19.983 ± 0.013
2016 Aug 09.063	28.103	609.060	609.065	LT IO:O	3 × 120	i'	16.4	20.527 ± 0.066
2016 Aug 17.067	36.107	617.065	617.069	LT IO:O	3 × 120	i'	24.1	21.068 ± 0.045
2016 Aug 19.097	38.137	619.095	619.100	LT IO:O	3 × 120	i'	20.5	21.176 ± 0.053
2016 Aug 21.128	40.168	621.125	621.130	LT IO:O	3 × 120	i'	3.3	21.298 ± 0.331
2016 Aug 27.070	46.110	627.068	627.072	LT IO:O	3 × 120	i'	21.6	21.976 ± 0.050
2016 Aug 29.133	48.173	629.131	629.136	LT IO:O	3 × 120	i'	16.3	21.932 ± 0.067
2016 Sep 06.110	56.150	637.108	637.112	LT IO:O	3 × 120	i'	14.3	22.436 ± 0.076
2016 Sep 14.002	64.042	645.000	645.004	LT IO:O	3 × 120	i'	7.0	22.417 ± 0.155
2016 Sep 24.119	74.159	655.114	655.124	LT IO:O	3 × 300	i'	6.8	22.864 ± 0.159
2016 Sep 28.137	78.177	659.132	659.143	LT IO:O	3 × 300	i'	9.5	22.802 ± 0.115

Table A4. Photometry of nova AT2017fyp as obtained by the LT, LCO, *Gaia*, and ATLAS (see [Tonry et al. 2017](#)).

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2017 Aug 10.115	5.035	976.112	976.117	LT IO:O	3 × 120	u'	189.2	17.250 ± 0.010
2017 Aug 12.047	6.967	978.045	978.049	LT IO:O	3 × 120	u'	182.5	17.220 ± 0.011
2017 Aug 14.106	9.026	980.104	980.108	LT IO:O	3 × 120	u'	242.6	17.101 ± 0.009
2017 Aug 18.206	13.126	984.204	984.208	LT IO:O	3 × 120	u'	205.1	17.678 ± 0.009
2017 Aug 20.213	15.133	986.211	986.216	LT IO:O	3 × 120	u'	142.5	17.894 ± 0.012
2017 Aug 22.165	17.085	988.163	988.166	LT IO:O	2 × 120	u'	13.6	18.286 ± 0.082
2017 Aug 23.137	18.057	989.135	989.139	LT IO:O	3 × 120	u'	115.0	18.179 ± 0.011
2017 Aug 25.060	19.980	991.058	991.063	LT IO:O	3 × 120	u'	93.7	18.444 ± 0.014
2017 Aug 30.202	25.122	996.199	996.204	LT IO:O	3 × 120	u'	89.5	18.783 ± 0.014
2017 Sep 04.970	30.890	1001.968	1001.972	LT IO:O	3 × 120	u'	36.5	19.144 ± 0.031
2017 Sep 08.147	34.067	1005.145	1005.149	LT IO:O	3 × 120	u'	45.3	19.233 ± 0.026
2017 Sep 11.108	37.028	1008.106	1008.111	LT IO:O	3 × 120	u'	58.6	19.384 ± 0.021
2017 Sep 16.070	41.990	1013.067	1013.072	LT IO:O	3 × 120	u'	33.9	19.565 ± 0.033
2017 Sep 23.072	48.992	1020.070	1020.075	LT IO:O	3 × 120	u'	18.2	19.448 ± 0.061
2017 Oct 27.983	53.903	1024.980	1024.985	LT IO:O	3 × 120	u'	30.6	19.812 ± 0.037
2017 Oct 07.936	63.856	1034.933	1034.938	LT IO:O	3 × 120	u'	34.3	20.060 ± 0.033
2017 Oct 19.955	75.875	1046.953	1046.958	LT IO:O	3 × 120	u'	33.7	20.355 ± 0.033
2017 Oct 23.051	78.971	1050.049	1050.053	LT IO:O	3 × 120	u'	21.2	20.318 ± 0.052
2017 Oct 28.080	84.000	1055.078	1055.082	LT IO:O	3 × 120	u'	20.4	20.501 ± 0.054
2017 Dec 21.913	138.833	1109.909	1109.918	LT IO:O	3 × 240	u'	32.4	20.592 ± 0.035
2017 Aug 09.463	4.383	975.460	975.465	LCO Spectral	3 × 120	B	79.9	17.577 ± 0.022
2017 Aug 10.120	5.040	976.117	976.122	LT IO:O	3 × 120	B	244.5	17.569 ± 0.017
2017 Aug 12.052	6.972	978.050	978.054	LT IO:O	3 × 120	B	281.2	17.610 ± 0.017
2017 Aug 12.515	7.435	978.513	978.517	LCO Spectral	3 × 120	B	82.1	17.793 ± 0.023
2017 Aug 14.111	9.031	980.108	980.113	LT IO:O	3 × 120	B	403.2	17.476 ± 0.013
2017 Aug 15.483	10.403	981.481	981.485	LCO Spectral	3 × 120	B	67.3	18.024 ± 0.048
2017 Aug 18.211	13.131	984.209	984.213	LT IO:O	3 × 120	B	259.9	18.233 ± 0.015
2017 Aug 20.218	15.138	986.216	986.221	LT IO:O	3 × 120	B	187.7	18.434 ± 0.018

Table A4 – *continued* Photometry of nova AT2017fyp as obtained by the LT, LCO, *Gaia*, and ATLAS.

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2017 Aug 23.142	18.062	989.140	989.144	LT IO:O	3 × 120	<i>B</i>	191.4	18.713 ± 0.016
2017 Aug 24.569	19.489	990.567	990.571	LT LCO Spectral	3 × 120	<i>B</i>	43.9	18.958 ± 0.032
2017 Aug 25.065	19.985	991.063	991.068	LT IO:O	3 × 120	<i>B</i>	157.3	18.994 ± 0.018
2017 Aug 30.207	25.127	996.204	996.209	LT IO:O	3 × 120	<i>B</i>	129.6	19.320 ± 0.016
2017 Sep 04.974	30.894	1001.973	1001.975	LT IO:O	3 × 60	<i>B</i>	28.5	19.588 ± 0.041
2017 Sep 08.151	34.071	1005.150	1005.152	LT IO:O	3 × 60	<i>B</i>	25.2	19.768 ± 0.047
2017 Sep 11.112	37.032	1008.111	1008.114	LT IO:O	3 × 60	<i>B</i>	50.2	19.869 ± 0.026
2017 Sep 16.073	41.993	1013.072	1013.075	LT IO:O	3 × 60	<i>B</i>	24.0	20.056 ± 0.047
2017 Sep 23.076	48.996	1020.075	1020.078	LT IO:O	3 × 60	<i>B</i>	15.9	20.050 ± 0.070
2017 Sep 27.987	53.907	1024.985	1024.988	LT IO:O	3 × 60	<i>B</i>	33.0	20.342 ± 0.036
2017 Oct 07.939	63.859	1034.938	1034.941	LT IO:O	3 × 60	<i>B</i>	23.9	20.596 ± 0.047
2017 Oct 19.959	75.879	1046.958	1046.960	LT IO:O	3 × 60	<i>B</i>	41.9	20.688 ± 0.029
2017 Oct 23.055	78.975	1050.054	1050.056	LT IO:O	3 × 60	<i>B</i>	23.3	20.651 ± 0.048
2017 Oct 28.084	84.004	1055.083	1055.085	LT IO:O	3 × 60	<i>B</i>	22.6	20.972 ± 0.051
2017 Dec 21.920	138.840	1109.918	1109.923	LT IO:O	3 × 120	<i>B</i>	7.9	21.997 ± 0.138
2017 Aug 09.468	4.388	975.465	975.470	LCO Spectral	3 × 120	<i>V</i>	118.2	17.379 ± 0.010
2017 Aug 10.124	5.044	976.122	976.127	LT IO:O	3 × 120	<i>V</i>	260.0	17.462 ± 0.006
2017 Aug 12.057	6.977	978.055	978.059	LT IO:O	3 × 120	<i>V</i>	281.8	17.571 ± 0.005
2017 Aug 12.520	7.440	978.517	978.522	LCO Spectral	3 × 120	<i>V</i>	101.5	17.621 ± 0.011
2017 Aug 14.116	9.036	980.113	980.118	LT IO:O	3 × 120	<i>V</i>	388.7	17.474 ± 0.004
2017 Aug 15.488	10.408	981.486	981.490	LCO Spectral	3 × 120	<i>V</i>	122.9	17.917 ± 0.010
2017 Aug 18.216	13.136	984.214	984.218	LT IO:O	3 × 120	<i>V</i>	287.4	18.242 ± 0.005
2017 Aug 20.223	15.143	986.221	986.226	LT IO:O	3 × 120	<i>V</i>	203.2	18.458 ± 0.007
2017 Aug 23.147	18.067	989.144	989.149	LT IO:O	3 × 120	<i>V</i>	166.5	18.780 ± 0.007
2017 Aug 24.574	19.494	990.572	990.576	LCO Spectral	3 × 120	<i>V</i>	52.6	18.963 ± 0.021
2017 Aug 25.070	19.990	991.068	991.073	LT IO:O	3 × 120	<i>V</i>	154.8	19.104 ± 0.008
2017 Aug 30.212	25.132	996.209	996.214	LT IO:O	3 × 120	<i>V</i>	87.3	19.571 ± 0.013
2017 Sep 04.977	30.897	1001.976	1001.978	LT IO:O	3 × 60	<i>V</i>	33.0	19.803 ± 0.034
2017 Sep 08.154	34.074	1005.152	1005.155	LT IO:O	3 × 60	<i>V</i>	19.1	19.996 ± 0.057
2017 Sep 11.115	37.035	1008.114	1008.117	LT IO:O	3 × 60	<i>V</i>	45.3	20.165 ± 0.025
2017 Sep 16.076	41.996	1013.075	1013.078	LT IO:O	3 × 60	<i>V</i>	25.4	20.332 ± 0.043
2017 Sep 23.079	48.999	1020.078	1020.080	LT IO:O	3 × 60	<i>V</i>	5.8	20.548 ± 0.189
2017 Sep 27.989	53.909	1024.988	1024.991	LT IO:O	3 × 60	<i>V</i>	27.9	20.617 ± 0.039
2017 Oct 07.942	63.982	1034.941	1034.944	LT IO:O	3 × 60	<i>V</i>	12.8	21.168 ± 0.085
2017 Oct 19.962	76.002	1046.961	1046.963	LT IO:O	3 × 60	<i>V</i>	26.3	21.153 ± 0.042
2017 Oct 23.058	79.098	1050.057	1050.059	LT IO:O	3 × 60	<i>V</i>	12.5	20.945 ± 0.087
2017 Oct 28.087	84.127	1055.085	1055.088	LT IO:O	3 × 60	<i>V</i>	10.7	21.723 ± 0.101
2017 Dec 21.925	138.965	1109.923	1109.928	LT IO:O	3 × 120	<i>V</i>	4.0	21.614 ± 0.274
2017 Aug 24.006	17.926	...	...	<i>Gaia</i>	60	<i>G</i>	...	17.92 ± 0.2
2017 Sep 07.183	33.103	...	...	<i>Gaia</i>	60	<i>G</i>	...	19.08
2017 Sep 09.257	35.177	...	...	<i>Gaia</i>	60	<i>G</i>	...	19.09
2017 Aug 04.603	-1.475	...	...	ATLAS1 ACAM1	30	<i>orange</i>	—	> 19.28
2017 Aug 07.553	1.475	...	...	ATLAS1 ACAM1	30	<i>orange</i>	...	16.77 ± 0.09
2017 Aug 09.473	4.393	975.470	975.475	LCO Spectral	3 × 120	<i>r'</i>	195.2	17.041 ± 0.007
2017 Aug 10.129	5.049	976.127	976.132	LT IO:O	3 × 120	<i>r'</i>	414.4	17.092 ± 0.005
2017 Aug 12.062	6.982	978.060	978.064	LT IO:O	3 × 120	<i>r'</i>	452.0	17.072 ± 0.004
2017 Aug 12.525	7.445	978.522	978.527	LCO Spectral	3 × 120	<i>r'</i>	249.2	17.061 ± 0.005
2017 Aug 14.121	9.041	980.118	980.123	LT IO:O	3 × 120	<i>r'</i>	586.3	16.974 ± 0.004
2017 Aug 15.493	10.413	981.491	981.495	LCO Spectral	3 × 120	<i>r'</i>	276.3	17.155 ± 0.005
2017 Aug 18.221	13.141	984.219	984.223	LT IO:O	3 × 120	<i>r'</i>	611.3	17.255 ± 0.007
2017 Aug 20.228	15.148	986.226	986.230	LT IO:O	3 × 120	<i>r'</i>	486.7	17.288 ± 0.005
2017 Aug 23.152	18.072	989.149	989.154	LT IO:O	3 × 120	<i>r'</i>	489.6	17.530 ± 0.004
2017 Aug 24.579	19.499	990.577	990.581	LCO Spectral	3 × 120	<i>r'</i>	191.0	17.670 ± 0.006
2017 Aug 25.075	19.995	991.073	991.078	LT IO:O	3 × 120	<i>r'</i>	422.0	17.736 ± 0.006
2017 Aug 30.217	25.137	996.214	996.219	LT IO:O	3 × 120	<i>r'</i>	324.4	18.149 ± 0.005
2017 Sep 04.980	30.900	1001.979	1001.981	LT IO:O	3 × 60	<i>r'</i>	143.6	18.460 ± 0.008
2017 Sep 08.157	34.077	1005.155	1005.158	LT IO:O	3 × 60	<i>r'</i>	81.1	18.600 ± 0.014
2017 Sep 11.118	37.038	1008.117	1008.119	LT IO:O	3 × 60	<i>r'</i>	172.1	18.783 ± 0.007
2017 Sep 16.079	41.999	1013.078	1013.081	LT IO:O	3 × 60	<i>r'</i>	98.6	19.014 ± 0.011

Table A4 – *continued* Photometry of nova AT2017fyp as obtained by the LT, LCO, *Gaia*, and ATLAS.

Date [UT]	Δt [days]	MJD 57000+		Telescope and Instrument	Exposure [s]	Filter	SNR	Photometry [mag]
		Start	End					
2017 Sep 23.082	49.002	1020.081	1020.083	LT IO:O	3 × 60	r'	17.0	19.099 ± 0.064
2017 Sep 27.992	53.912	1024.991	1024.994	LT IO:O	3 × 60	r'	94.2	19.438 ± 0.012
2017 Oct 07.945	63.865	1034.944	1034.946	LT IO:O	3 × 60	r'	56.5	19.806 ± 0.019
2017 Oct 23.061	78.981	1050.060	1050.062	LT IO:O	3 × 60	r'	36.8	20.162 ± 0.030
2017 Oct 28.090	84.010	1055.088	1055.091	LT IO:O	3 × 60	r'	42.1	20.373 ± 0.026
2017 Dec 21.929	138.849	1109.928	1109.931	LT IO:O	3 × 60	r'	—	> 19.4
2017 Aug 09.477	4.397	975.475	975.480	LCO Spectral	3 × 120	i'	139.9	17.147 ± 0.011
2017 Aug 10.134	5.054	976.132	976.137	LT IO:O	3 × 120	i'	327.8	17.238 ± 0.012
2017 Aug 12.067	6.987	978.065	978.069	LT IO:O	3 × 120	i'	416.5	17.337 ± 0.010
2017 Aug 12.530	7.450	978.527	978.532	LCO Spectral	3 × 120	i'	160.6	17.386 ± 0.011
2017 Aug 14.126	9.046	980.123	980.128	LT IO:O	3 × 120	i'	427.9	17.323 ± 0.015
2017 Aug 15.498	10.418	981.496	981.500	LCO Spectral	3 × 120	i'	194.9	17.623 ± 0.010
2017 Aug 18.226	13.146	984.224	984.228	LT IO:O	3 × 120	i'	374.6	17.864 ± 0.013
2017 Aug 20.233	15.153	986.231	986.235	LT IO:O	3 × 120	i'	230.8	18.014 ± 0.016
2017 Aug 23.157	18.077	989.154	989.159	LT IO:O	3 × 120	i'	267.7	18.385 ± 0.014
2017 Aug 24.584	19.504	990.581	990.586	LCO Spectral	3 × 120	i'	67.2	18.635 ± 0.017
2017 Aug 25.080	20.000	991.078	991.083	LT IO:O	3 × 120	i'	188.0	18.685 ± 0.012
2017 Aug 30.222	25.142	996.219	996.224	LT IO:O	3 × 120	i'	112.9	19.230 ± 0.014
2017 Sep 04.983	30.903	1001.981	1001.984	LT IO:O	3 × 60	i'	52.0	19.651 ± 0.024
2017 Sep 08.159	34.079	1005.158	1005.161	LT IO:O	3 × 60	i'	31.6	19.679 ± 0.036
2017 Sep 11.121	37.041	1008.120	1008.122	LT IO:O	3 × 60	i'	57.6	19.907 ± 0.021
2017 Sep 16.082	42.002	1013.081	1013.083	LT IO:O	3 × 60	i'	36.0	20.185 ± 0.031
2017 Sep 24.085	49.005	1020.084	1020.086	LT IO:O	3 × 60	i'	16.7	20.202 ± 0.065
2017 Sep 27.995	53.915	1024.994	1024.996	LT IO:O	3 × 60	i'	37.5	20.626 ± 0.032
2017 Oct 07.948	63.868	1034.947	1034.949	LT IO:O	3 × 60	i'	19.1	21.003 ± 0.058
2017 Oct 23.064	78.984	1050.062	1050.065	LT IO:O	3 × 60	i'	16.6	21.172 ± 0.067
2017 Oct 28.093	84.013	1055.091	1055.094	LT IO:O	3 × 60	i'	12.2	21.510 ± 0.090
2017 Dec 21.932	138.852	1109.931	1109.933	LT IO:O	3 × 60	i'	2.6	(21.462 ± 0.426)