

Release Notes:

Date: April 26th, 2020

Observed field: 44-Sco-II-2019

Observing Satellites: BLb, BHr

QCT team: Bert Pablo, Andrzej Pigulski

RK - Rainer Kuschnig (Satellite Operation Center),

APo - Adam Popowicz (reductions).

Satellites: BLb - BRITE-Austria, UBr - UniBRITE, BTr - BRITE-Toronto,

BLb - Lem, BHr - Heweliusz.

#### GENERAL NOTES:

We refer to time in JD not HJD and we use truncated JD (TJD) = JD - 2457000.0.

That's because JD is the same for all stars (HJD is not).

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#### NOTES ON SATELLITES/SETUPS:

BLb - Poor data between 1593.5 and 1600 (BLb2/3), can be related to chopping position. Moon effect seen for many stars at other epochs of the smallest elongation. Sometimes it is very strong, stronger for BLb than for BHr. Setups 4 and 5 have significant outliers. Specifically there are clumps of outliers at specific flux levels due to pointing instability.

BHr- OK

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#### Individual Stars:

The nine columns following star name denote:

- (1) satellite
- (2) setup,
- (3) data points after reduction
- (4) original number of frames,
- (5) (in per cent)
- (6) ROIxpos
- (7) ROIypos
- (8) ROIxsiz
- (9) ROIysiz

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STAR: HD 136298 (Delta Lupi)

BLb setup1	3151	4110	76.7	3120	165	48	28
BLb setup2	12271	14568	84.2	3120	165	48	28
BLb setup3	6257	8057	77.7	3120	165	48	28
BLb setup4	25702	29187	88.1	3120	165	48	28
BLb setup5	16561	25444	65.1	3120	165	48	28
BLb setup6	917	1007	91.1	3120	165	48	28

COMMENTS FOR USERS:

BLb: Many outliers starting from BLb4, poor data between 1593.5 and 1600 (BLb2/3).

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STAR: HD 136664 (Phi2 Lupi)

BLb setup3	6271	8057	77.8	2653	113	48	28
BLb setup6	882	1007	87.6	2653	113	48	28

COMMENTS FOR USERS:

BLb: Ok.

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STAR: HD 138690 (Gamma Lupi)

BHr setup1	12377	17319	71.5	3194	320	48	28
BHr setup2	23889	26678	89.5	3194	320	48	28
BHr setup3	26761	30207	88.6	3194	320	48	28
BLb setup1	3086	4110	75.1	3169	490	48	28
BLb setup2	12191	14568	83.7	3169	490	48	28
BLb setup3	6193	8057	76.9	3169	490	48	28
BLb setup4	23024	29187	78.9	3169	490	48	28
BLb setup5	15195	25444	59.7	3169	490	48	28
BLb setup6	904	1007	89.8	3169	490	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3). 4 and 5 have significant clumped outliers.

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STAR: HD 139365 (Tau Lib)

BHr setup1	12332	17319	71.2	1650	277	48	28
BHr setup2	23731	26678	89.0	1650	277	48	28
BHr setup3	26545	30207	87.9	1650	277	48	28
BLb setup1	3149	4110	76.6	1681	424	48	28

BLb setup2	12306	14568	84.5	1681	424	48	28
BLb setup3	6278	8057	77.9	1681	424	48	28
BLb setup4	26112	29187	89.5	1681	424	48	28
BLb setup5	16785	25444	66.0	1681	424	48	28
BLb setup6	900	1007	89.4	1681	424	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3). 4 and 5 have significant clumped outliers.

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STAR: HD 141637 (1 b Sco)

BHr setup1	12269	17319	70.8	1122	754	48	28
BLb setup1	3152	4110	76.7	1122	754	48	28
BLb setup2	12283	14568	84.3	1122	754	48	28
BLb setup3	6240	8057	77.4	1126	754	48	28
BLb setup6	912	1007	90.6	1126	754	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3). Bimodal behaviour at the beginning pf BLb2. Large scatter in BLb2. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 142114 (2 Sco)

BHr setup1	12374	17319	71.4	1017	700	48	28
BLb setup1	3154	4110	76.7	1063	833	48	28
BLb setup2	12276	14568	84.3	1063	833	48	28
BLb setup3	6252	8057	77.6	1067	833	48	28
BLb setup6	888	1007	88.2	1067	833	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Bimodal behaviour at the beginning pf BLb2. Large scatter in BLb2. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 142669 (Rho Sco)

BLb setup1	3151	4110	76.7	1568	944	48	28
BLb setup2	12271	14568	84.2	1572	944	48	28

BLb setup3	6247	8057	77.5	1572	944	48	28
BLb setup6	912	1007	90.6	1572	944	48	28

COMMENTS FOR USERS:

BLb: Poor data between 1593.5 and 1600 (BLb2/3). Strong Moon effect at ~1568.

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STAR: HD 142990 (V913 Sco)

BHr setup1	12346	17319	71.3	943	851	48	28
BHr setup2	23838	26678	89.4	943	851	48	28
BHr setup3	26748	30207	88.5	943	851	48	28
BLb setup1	3145	4110	76.5	992	981	48	28
BLb setup2	12271	14568	84.2	992	981	48	28
BLb setup3	6236	8057	77.4	996	981	48	28
BLb setup4	23466	29187	80.4	996	981	48	28
BLb setup5	15283	25444	60.1	996	981	48	28
BLb setup6	911	1007	90.5	996	981	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).  
Strong Moon effect in all BLb data.

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STAR: HD 143018 (Pi Sco)

BHr setup1	12328	17319	71.2	1119	865	48	28
BHr setup2	23827	26678	89.3	1119	865	48	28
BHr setup3	26710	30207	88.4	1119	865	48	28
BLb setup1	3025	4110	73.6	1156	990	48	28
BLb setup2	12150	14568	83.4	1156	990	48	28
BLb setup3	6143	8057	76.2	1158	990	52	28
BLb setup4	22779	29187	78.0	1158	990	52	28
BLb setup5	15111	25444	59.4	1158	990	52	28
BLb setup6	878	1007	87.2	1158	990	52	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).  
Weak Moon effect in BLb data. BLb4 and BLb5 have significant  
clumped outliers.

STAR: HD 143118 (Eta Lup)

BHr setup1	12357	17319	71.3	2790	941	48	28
BHr setup2	23902	26678	89.6	2790	941	48	28
BHr setup3	26782	30207	88.7	2790	941	48	28
BLb setup1	3159	4110	76.9	2798	1078	48	28
BLb setup2	12302	14568	84.4	2798	1078	48	28
BLb setup3	6244	8057	77.5	2798	1078	48	28
BLb setup4	24546	29187	84.1	2798	1078	48	28
BLb setup5	15657	25444	61.5	2798	1078	48	28
BLb setup6	891	1007	88.5	2798	1078	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Strong Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 143275 (Delta Sco)

BHr setup1	12292	17319	71.0	647	902	48	28
BLb setup1	2149	4110	52.3	718	1030	48	28
BLb setup2	10932	14568	75.0	715	1030	48	28
BLb setup3	5498	8057	68.2	715	1030	52	28
BLb setup6	892	1007	88.6	715	1030	52	28

COMMENTS FOR USERS:

BHr: Large scatter.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

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STAR: HD 144218 (Beta Sco)

BLb setup1	115	4110	2.8	391	1181	48	28
BLb setup2	7743	14568	53.2	391	1181	48	28
BLb setup3	3805	8057	47.2	391	1181	48	28
BLb setup4	19782	29187	67.8	391	1181	48	28
BLb setup5	13271	25444	52.2	391	1181	48	28
BLb setup6	904	1007	89.8	391	1181	48	28

COMMENTS FOR USERS:

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Weak Moon effect in BLb data.

The star is designated as HD 144217 in (09) Sco I data.

This is unresolved beta<sup>1</sup> and beta<sup>2</sup> Sco.

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STAR: HD 144294 (Theta Lupi)

BHr setup1	12401	17319	71.6	2570	1112	48	28
BHr setup2	23928	26678	89.7	2570	1112	48	28
BHr setup3	26810	30207	88.8	2570	1112	48	28
BLb setup1	3169	4110	77.1	2583	1243	48	28
BLb setup2	12341	14568	84.7	2583	1243	48	28
BLb setup3	6287	8057	78.0	2587	1245	48	28
BLb setup4	27160	29187	93.1	2587	1245	48	28
BLb setup5	17591	25444	69.1	2587	1245	48	28
BLb setup6	893	1007	88.7	2587	1245	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3) and at the beginning of BLb2.

Weak Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 144470 (Omega<sup>1</sup> Sco)

BHr setup2	23944	26678	89.8	398	1104	48	28
BHr setup3	26833	30207	88.8	398	1104	48	28
BLb setup1	2810	4110	68.4	482	1224	48	28
BLb setup2	12120	14568	83.2	482	1224	48	28
BLb setup3	6145	8057	76.3	484	1226	48	28
BLb setup4	26399	29187	90.4	484	1226	48	28
BLb setup5	17200	25444	67.6	484	1226	48	28
BLb setup6	916	1007	91.0	484	1226	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Strong Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 145502 (Nu Sco)

BLb setup1	779	4110	19.0	351	1378	48	28
BLb setup2	12207	14568	83.8	351	1378	48	28

COMMENTS FOR USERS:

BLb: Poor data at the end of BLb2. Poor BLb1.

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STAR: HD 147165 (Sigma Sco)

BHr setup1	12337	17319	71.2	1050	1549	48	28
BHr setup2	23729	26678	88.9	1050	1549	48	28
BHr setup3	26518	30207	87.8	1050	1549	48	28
BLb setup1	3067	4110	74.6	1087	1661	48	28
BLb setup2	12260	14568	84.2	1087	1661	48	28
BLb setup3	6226	8057	77.3	1089	1661	52	28
BLb setup4	24395	29187	83.6	1089	1661	52	28
BLb setup5	15997	25444	62.9	1089	1661	52	28
BLb setup6	912	1007	90.6	1089	1661	52	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Strong Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 148478 (Alpha Sco)

BLb setup1	3148	4110	76.6	1087	1661	48	28
BLb setup2	12246	14568	84.1	1087	1661	48	28
BLb setup3	6208	8057	77.1	1089	1661	52	28
BLb setup4	26686	29187	91.4	1089	1661	52	28
BLb setup5	17219	25444	67.7	1089	1661	52	28
BLb setup6	913	1007	90.7	1089	1661	52	28

COMMENTS FOR USERS:

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Strong Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 148605 (22 i Sco)

BHr setup1	12341	17319	71.3	994	1830	48	28
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COMMENTS FOR USERS:

BHr: Ok.

STAR: HD 148688 (V1058 Sco)

BHr setup1	12379	17319	71.5	3265	1760	48	28
BHr setup2	23893	26678	89.6	3265	1760	48	28
BHr setup3	26786	30207	88.7	3265	1760	48	28

COMMENTS FOR USERS:

BHr: Ok.

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STAR: HD 148703 (N Sco)

BLb setup3	6254	8057	77.6	2314	1922	48	28
BLb setup6	897	1007	89.1	2314	1922	48	28

COMMENTS FOR USERS:

Blb: Ok

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STAR: HD 149038 (Mu Nor)

BHr setup1	12370	17319	71.4	3550	1792	48	28
BHr setup2	23847	26678	89.4	3550	1792	48	28
BHr setup3	26706	30207	88.4	3550	1792	48	28

BHr: Ok.

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STAR: HD 149404 (V918 Sco)

BHr setup1	12377	17319	71.5	3406	1865	48	28
BHr setup2	23960	26678	89.8	3406	1865	48	28
BHr setup3	26856	30207	88.9	3406	1865	48	28

BHr: Ok.

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STAR: HD 149438 (Tau Sco)

BHr setup1	12344	17319	71.3	1425	1982	48	28
BHr setup2	23762	26678	89.1	1425	1982	48	28
BHr setup3	26542	30207	87.9	1425	1982	48	28
BLb setup1	3101	4110	75.5	1452	2085	48	28
BLb setup2	12260	14568	84.2	1452	2085	48	28
BLb setup3	6247	8057	77.5	1454	2087	48	28
BLb setup4	23999	29187	82.2	1454	2087	48	28



BLb setup5	15649	25444	61.5	1454	2087	48	28
BLb setup6	907	1007	90.1	1454	2087	48	28

COMMENTS FOR USERS:

BHr: Strong Moon effect.

BLb: Strong Moon effect. Poor data at the beginning of BLb2. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 149711 (V1003 Sco)

BHr setup1	12375	17319	71.5	3475	1907	48	28
BHr setup2	23860	26678	89.4	3475	1907	48	28
BHr setup3	26736	30207	88.5	3475	1907	48	28

BHr: Ok.

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STAR: HD 151680 (Epsilon Sco)

BHr setup1	12361	17319	71.4	2282	2335	48	28
BHr setup2	23827	26678	89.3	2282	2335	48	28
BHr setup3	26606	30207	88.1	2282	2335	48	28
BLb setup2	12320	14568	84.6	2288	2422	48	28
BLb setup3	6287	8057	78.0	2288	2426	48	28
BLb setup4	26847	29187	92.0	2288	2426	48	28
BLb setup5	17538	25444	68.9	2288	2426	48	28
BLb setup6	899	1007	89.3	2288	2426	48	28

COMMENTS FOR USERS:

BHr: Ok.

BLb: Poor data between 1593.5 and 1600 (BLb2/3).

Strong Moon effect in BLb data. BLb4 and BLb5 have significant clumped outliers.

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STAR: HD 151804 (V973 Sco)

BHr setup1	12402	17319	71.6	3217	2265	48	28
BHr setup2	24000	26678	90.0	3217	2265	48	28
BHr setup3	26894	30207	89.0	3217	2265	48	28

BHr: Ok.

STAR: HD 151890 (Mu<sup>1</sup> Sco)

BHr setup1	12514	17319	72.3	2794	2331	48	38
BHr setup2	24025	26678	90.1	2794	2331	48	38
BHr setup3	26817	30207	88.8	2794	2331	48	38
BLb setup1	3156	4110	76.8	2771	2410	48	38
BLb setup2	12341	14568	84.7	2770	2410	52	38
BLb setup3	6266	8057	77.8	2774	2410	52	38
BLb setup4	26555	29187	91.0	2774	2410	52	38
BLb setup5	17149	25444	67.4	2774	2410	52	38
BLb setup6	855	1007	84.9	2774	2410	52	38

COMMENTS FOR USERS:

BHr: Ok.

BLb: Offsets between setups. Weak Moon effect. Many outliers.

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STAR: HD 151985 (Mu<sup>2</sup> Sco)

BHr setup1	12551	17319	72.5	2794	2331	48	38
BHr setup2	24072	26678	90.2	2794	2331	48	38
BHr setup3	26889	30207	89.0	2794	2331	48	38
BLb setup1	3158	4110	76.8	2771	2410	48	38
BLb setup2	12329	14568	84.6	2770	2410	52	38
BLb setup3	6258	8057	77.7	2774	2410	52	38
BLb setup4	26557	29187	91.0	2774	2410	52	38
BLb setup5	17139	25444	67.4	2774	2410	52	38
BLb setup6	857	1007	85.1	2774	2410	52	38

BHr: Ok.

BLb: Offsets between setups, multimodal behaviour, large scatter.

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