

Release Notes:

Date: Oct 2nd, 2019

Observed field: 40-OriTau-I-2018

Observing Satellites: UBr, BTr, BAb, BLb

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RK - Rainer Kuschnig (Satellite Operation Center),

APo - Adam Popowicz (reductions).

Satellites: BAb - 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).

NOTES ON SATELLITES/SETUPS:

BAb: OK, but scatter is large.

BLb: Multimodal behaviour for some stars. Strong Moon effect for some stars. Strong LC doubling due mainly to more than two chopping positions present.

BTr: Moon effect in many stars. For some stars there is an unexplained increase of brightness during the last two days of BTr2. Some LC doubling due to issues with chopping position stability.

UBr: OK, Moon effect for some stars.

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

Individual Stars:

STAR: HD 28319 (Theta² Tau)
BAb setup1 18395 33129 55.5 3154 2625 48 28
BTr setup1 1099 1440 76.3 3013 2628 54 28
BTr setup2 36369 51356 70.8 3010 2628 54 28

COMMENTS FOR USERS:

BAb: OK, large scatter.
BTr: Bimodal behaviour.

STAR: HD 28527
BAb setup1 7429 33129 22.4 3193 2566 48 28

COMMENTS FOR USERS:

BAb: OK, large scatter.

STAR: HD 29139 (Alpha Tau)
BAb setup1 18235 33129 55.0 3242 2420 48 28
BLb setup1 29375 32418 90.6 3145 2586 48 28
BLb setup2 32830 35571 92.3 3145 2586 48 28
BLb setup3 8345 10886 76.7 3145 2586 48 28
BTr setup1 1055 1440 73.3 3093 2409 54 28
BTr setup2 35350 51356 68.8 3093 2409 54 28
UBr setup1 1033 2280 45.3 3177 2470 48 28
UBr setup2 11007 17790 61.9 3182 2470 54 32

COMMENTS FOR USERS:

BAb: OK, large scatter.
BLb: OK, multimodal behaviour (decorrelates well), strong Moon effect (6 epochs).
BTr: OK, but strong Moon effect (4 epochs, all in BTr2).
UBr: OK, offset between setups. Stronger scatter in UBr 1.

STAR: HD 29248 (Nu Eri)
BAb setup1 18369 33129 55.4 746 2442 48 28
UBr setup1 1150 2280 50.4 645 2480 48 28

COMMENTS FOR USERS:

BAb: OK, large scatter.
UBr: OK. Very little data present.

STAR: HD 30211 (Mu Eri)
BAb setup1 18194 33129 54.9 722 2177 48 28
UBr setup1 1403 2280 61.5 633 2210 48 28

COMMENTS FOR USERS:
BAb: OK, large scatter.
UBr: OK.

STAR: HD 30652 (Pi³ Ori)
BAb setup1 18079 33129 54.6 2030 2065 48 28
BTr setup1 1054 1440 73.2 1839 2033 54 28
BTr setup2 20219 51356 39.4 1833 2030 54 28
UBr setup2 13980 17790 78.6 1941 2095 48 28

COMMENTS FOR USERS:
BAb: OK, large scatter.
BTr: OK, Moon effect (3 epochs).
UBr: OK.

STAR: HD 30836 (Pi⁴ Ori)
BAb setup1 17915 33129 54.1 1848 2022 48 28
BLb setup1 29110 32418 89.8 1756 2206 48 28
BLb setup2 32295 35571 90.8 1756 2206 48 28
BLb setup3 9563 10886 87.8 1756 2206 48 28
UBr setup1 1392 2280 61.1 1758 2049 48 28
UBr setup2 14070 17790 79.1 1760 2051 48 28

COMMENTS FOR USERS:
BAb: OK, large scatter.
BLb: Bimodal behaviour, Moon effect. ~1 day variability visible only in setup3.
BTr: OK, Moon effect (3 epochs).
UBr: OK, small Moon effect. Long term trend.

STAR: HD 31237 (Pi⁵ Ori)
BAb setup1 17926 33129 54.1 1421 1921 48 28
BLb setup1 28569 32418 25.2 1335 2106 48 28
BLb setup2 10953 35571 30.8 1335 2106 48 28

BLb setup3	1034	10886	30.8	1335	2106	48	28
UBr setup2	14047	17790	79.0	1338	1950	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
BLb: Bimodal behaviour, Moon effect.
UBr: OK.

STAR: HD 33111 (Beta Eri)

BAb setup1	18260	33129	55.1	486	1462	48	28
BLb setup1	8163	32418	25.2	405	1640	48	28
BLb setup2	10953	35571	30.8	405	1640	48	28
BLb setup3	1034	10886	9.5	405	1640	48	28
UBr setup1	1423	2280	62.4	386	1485	48	28
UBr setup2	13999	17790	78.7	386	1489	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
BLb: Bimodal behaviour, large offset between BLb3 and the rest. Low duty cycle in BLb3.
UBr: OK.

STAR: HD 34085 (Beta Ori)

BAb setup1	18852	33129	56.9	194	1250	48	28
UBr setup2	13731	17790	77.2	72	1272	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
UBr: OK.

STAR: HD 35039 (Omikron Ori)

BLb setup1	29512	32418	91.0	957	1196	48	28
BLb setup2	32811	35571	92.2	957	1196	48	28

COMMENTS FOR USERS:

BLb: Bimodal behaviour, large offset between BLb1 and BLb2.

STAR: HD 35411 (Eta Ori)

BAb setup1	18450	33129	55.7	798	919	48	28
BLb setup1	25697	32418	79.3	708	1105	48	28
BLb setup2	28573	35571	80.3	708	1105	48	28
BLb setup3	8785	10886	80.7	708	1105	48	28
UBr setup1	1390	2280	61.0	710	942	48	28
UBr setup2	13945	17790	78.4	710	942	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
 BLb: OK.
 UBr: OK.

STAR: HD 35439 (Psi¹ Ori)

BAb setup1	17645	33129	53.3	1338	900	48	28
BLb setup1	22938	32418	70.8	1245	1095	48	28
BLb setup2	26236	35571	73.8	1245	1095	48	28
BLb setup3	3929	10886	36.1	1245	1095	48	28
UBr setup1	1341	2280	58.8	1256	926	48	28
UBr setup2	13588	17790	76.4	1256	928	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
 BLb: OK, Moon effect, large scatter.
 UBr: OK.

STAR: HD 35468 (Gamma Ori)

BAb setup1	18292	33129	55.2	1943	889	48	28
BTr setup1	1055	1440	73.3	1736	863	54	28
BTr setup2	25715	51356	50.1	1734	863	54	28
UBr setup1	1398	2280	61.3	1855	915	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
 BTr: Moon effect in BTr2. Strange light curve (bimodal, scattered) after 1517.
 Strange increase in brightness during the last two days of BTr2.
 UBr: OK. Very little data.

QUESTIONS/REQUESTS ADDRESSED TO APo/RK:

QCT: Explain light curve for $t > 1517$ in BTr2.

STAR: HD 35715 (Psi2 Ori)

BAb setup1	18292	33129	54.9	1509	831	48	28
BLb setup1	29583	32418	91.3	1414	1026	48	28
BLb setup2	32856	35571	92.4	1414	1026	48	28
UBr setup1	1356	2280	59.5	1419	857	48	28
UBr setup2	13686	17790	76.9	1421	859	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.

BLb: Bimodal behaviour, small Moon effect. Small jump from setup1 to setup2

UBr: OK, offset between setups.

STAR: HD 36267 (32 Ori)

BLb setup1	29469	32418	90.9	1799	893	48	28
BLb setup2	32701	35571	91.9	1799	893	48	28

COMMENTS FOR USERS:

BLb: Bimodal behaviour, Moon effect.

STAR: HD 36389 (CE Tau)

BTr setup2	35363	51356	68.9	3338	658	48	28
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COMMENTS FOR USERS:

BTr: Moon effect.

STAR: HD 36485/6 (Delta Ori)

BAb setup1	18262	33129	55.1	1064	664	48	28
BLb setup1	24876	67989	36.6	972	852	48	28
BLb setup2	27617	10886	253.7	972	852	48	28
BLb setup3	8536	10886	78.4	972	852	48	28
BTr setup1	1048	1440	72.8	869	649	54	28
BTr setup2	35041	51356	68.2	863	649	54	28
UBr setup1	1357	2280	59.5	981	691	48	28
UBr setup2	13772	17790	77.4	983	693	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.

BLb: OK.

BTr: Large scatter, strange increase in brightness during the last two days of BTr2.

UBr: OK.

STAR: HD 36822 (Phi¹ Ori)

BLb setup1	29509	32418	91.0	2276	766	48	28
BLb setup2	32775	35571	92.1	2276	766	48	28
UBr setup1	1364	2280	59.8	2280	600	48	28

COMMENTS FOR USERS:

BLb: Bimodal behaviour, Moon effect.

UBr: OK. Very little data.

STAR: HD 36861/2 (Lambda Ori)

BAb setup1	18664	33129	56.3	2427	567	48	28
BLb setup1	26667	32418	82.3	2335	754	48	28
BLb setup2	29459	35571	82.8	2335	754	48	28
BTr setup1	1042	1440	72.4	2219	532	54	28
BTr setup2	29963	51356	58.3	2217	532	54	28
UBr setup1	1342	2280	58.9	2336	589	48	28
UBr setup2	13981	17790	78.6	2340	589	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.

BLb: OK, bimodal behaviour, small Moon effect.

BTr: Large offset between setups, Moon effect.

UBr: OK, offset between setups.

STAR: HD 37128 (Epsilon Ori)

BAb setup1	18284	33129	55.2	958	534	48	28
BLb setup1	24851	32418	76.7	865	719	48	28
BLb setup2	27603	35571	77.6	865	719	48	28
BLb setup3	8530	10886	78.4	865	719	48	28
BTr setup1	1055	1440	73.3	762	519	54	28
BTr setup2	36514	51356	71.1	756	519	54	28
UBr setup1	1379	2280	60.5	868	557	48	28
UBr setup2	13773	17790	77.4	870	559	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.

BLb: OK.

BTr: Strange increase in brightness during the last two days of BTr2.

UBr: OK.

STAR: HD 37160 (Phi² Ori)

BTr setup2 1194 51356 2.3 2130 475 48 28

COMMENTS FOR USERS:

BTr: Poor data, very low percentage of good data.

UBr: OK.

STAR: HD 37202 (Zeta Tau)

BLb setup1 28989 32418 89.1 3687 757 48 28

BLb setup2 31998 35571 90.0 3687 757 48 28

BLb setup3 10021 10886 92.1 3687 757 48 28

BTr setup1 771 1440 53.5 3622 520 54 28

BTr setup2 35488 51356 69.1 3618 520 50 28

UBr setup1 1406 2280 61.7 3728 592 48 28

UBr setup2 13859 17790 77.9 3728 592 48 28

COMMENTS FOR USERS:

BLb: OK, multimodal behaviour, small Moon effect.

BTr: OK.

UBr: OK, offset between setups.

STAR: HD 37468 (Sigma Ori)

BAb setup1 18820 33129 56.8 796 467 48 28

BLb setup1 26033 32418 80.3 700 646 48 28

BLb setup2 28654 35571 80.6 700 646 48 28

BLb setup3 9220 10886 84.7 700 646 48 28

BTr setup1 69 1440 4.8 593 448 54 28

BTr setup2 2350 51356 4.6 591 448 54 28

UBr setup1 1368 2280 60.0 707 481 48 28

UBr setup2 13690 17790 77.0 705 484 48 28

COMMENTS FOR USERS:

BAb: OK, large scatter.

BLb: OK, multimodal behaviour.

BTr: Very poor data, large scatter, low percentage of good data.

UBr: OK, offset between setups.

STAR: HD 37490 (Omega Ori)

BLb setup1 29497 34218 91.0 1559 613 48 28

BLb setup2	32710	35571	92.0	1559	613	48	28
UBr setup1	1314	2280	57.6	1569	448	48	28

COMMENTS FOR USERS:

BLb: Multimodal behaviour, Moon effect.
UBr: OK.

STAR: HD 37742/3 (Zeta Ori)

BAb setup1	18835	33129	56.9	883	398	48	28
BLb setup1	24885	32418	76.8	782	578	48	28
BLb setup2	27609	35571	77.6	782	578	48	28
BLb setup3	8540	10886	78.4	782	578	48	28
BTr setup1	1055	1440	73.3	678	380	54	28
BTr setup2	36544	51356	71.2	672	380	54	28
UBr setup1	1360	2280	59.6	784	414	48	28
UBr setup2	13846	17790	77.8	788	418	48	28

COMMENTS FOR USERS:

BAb: OK, large scatter.
BLb: OK, multimodal behaviour in BLb1 only.
BTr: OK, Moon effect, strange increase in brightness during the last two days of BTr2.
UBr: OK, offset between setups.

STAR: HD 39801 (Alpha Ori)

BLb setup1	27303	34218	84.2	2008	107	48	28
BLb setup2	30107	35571	84.6	2008	107	48	28
BLb setup3	9038	10886	83.0	2008	107	48	28

COMMENTS FOR USERS:

BLb: OK, multimodal behaviour.
