Release Notes:

Date: May 24th, 2017

Field: 22-Orion-IV-2016

General Notes:

Abbreviations: QCT: Quality Control Team (led by Bert Pablo),
RK - Rainer Kuschnig (Satellite Operation Center),
 APo - Adam Popowicz (reductions).
Satellites: BAb - BRITE-Austria, UBr - UniBRITE, BTr - BRITE-Toronto,
 BLb - Lem, BHr - Heweliusz.

Observing Telescopes: BAb, UBr

Change of exposure time in BAb observations. Be careful when combining.

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).

Setup Notes:

Initial setups are often short and of lesser quality as fine-tuning is made to the spacecraft. Please treat vet this setup carefully.

BAb:

Setup 1 - initial setup

Setup 2 - Exposure time increased to 1.5 seconds

Setup 3- Number of stars increased from 12 - 14

UBr:

Setup 1 - initial setup

Setup 2 - Raster positions adjusted.

Individual Stars:

The five 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

STAR: HD 29248 (Nu Eri)
  BAb setup1   247   270 91.5   1521 2514 48 28
  BAb setup2 7704 8417 91.5   1521 2514 48 28
  BAb setup3 21019 37767 55.7   1521 2514 48 28
  UBr setup1   349   405 86.2   1421 2539 48 28
  UBr setup2 27716 46657 59.4   1429 2545 48 28

  COMMENTS FOR USERS:
    BAb: Many outliers. Can be merged (the same raster position).
    UBr: Offset between setups. Many outliers. Do not merge (offset
      + different raster postions).

STAR: HD 30211 (Mu Eri)
  BAb setup1   247   270 91.5   1579 2235 48 28
  BAb setup2 7708 8417 91.6   1579 2235 48 28
  BAb setup3 21268 37767 56.3   1579 2235 48 28
  UBr setup1   348   405 85.9   1481 2257 48 28
  UBr setup2 28128 46657 60.3   1489 2263 48 28

  COMMENTS FOR USERS:
    BAb: Many outliers. Can be merged (the same raster position).
    UBr: Offset between setups. Many outliers. Do not merge (offset
      + different raster postions).

STAR: HD 30739 (Pi^2 Ori)
  UBr setup1   345   405 85.2   3083 2346 48 28
  UBr setup2 27379 46657 58.7   3091 2348 48 28

  COMMENTS FOR USERS:
    UBr: Small offset between setups. Many outliers. Do not merge
      (offset + different raster postions).

STAR: HD 30836 (Pi^4 Ori)
  BAb setup1   249   270 92.2   2770 2247 48 28
  BAb setup2 7718 8417 91.7   2770 2247 48 28
  BAb setup3 21420 37767 56.7   2770 2247 48 28
  UBr setup1   342   405 84.4   2672 2275 48 28
  UBr setup2 27957 46657 59.9   2684 2275 48 28

  COMMENTS FOR USERS:
    BAb: Many outliers. BAb 2 and 3 can be merged (the same raster position).

BAb1 has an offset despite the same raster position (different aperture?)

UBr: Offset between setups. Many outliers. Do not merge (offset + different raster postions).

STAR: HD 31237 (Pi^5 Ori)
```
  UBr setup1   345   405 85.2        2282  2111  48  28
  UBr setup2  27992  46657 60.0       2290  2111  48  28
```

  COMMENTS FOR USERS:
    UBr: Offset between setups. Many outliers. Do not merge (offset + different raster postions).

STAR: HD 33328 (Lambda Eri)
```
  UBr setup1   348   405 85.9         901  1353  48  28
  UBr setup2  28040  46657 60.1        909  1357  48  28
```

  COMMENTS FOR USERS:
    UBr: No clear offset between setups. Many outliers. Do not merge (different raster postions).

STAR: HD 34085 (Beta Ori = Rigel)
```
  BAb setup1   249   270 92.2        1096  1172  48  28
  BAb setup2  7653  8417 90.9         1096  1172  48  28
  BAb setup3  21580  37767 57.1        1096  1172  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. BAb 2 and 3 can be merged (the same raster position).

   BAb1 has a large offset despite the same raster position . Star is saturated. Photometry is unreliable

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STAR: HD 34503 (Tau Ori)
```
  BAb setup1   249   270 92.2         1288  1102  48  28
  BAb setup3  21582  37767 57.1         1288  1102  48  28
  UBr setup1   344   405 84.9        1195  1123  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. Setups can be merged (the same raster position).
    UBr: Very short data.

STAR: HD 34816 (Lambda Lep)
```
  UBr setup1   346   405 85.4         435   926  48  28
  UBr setup2  27519  46657 59.0         435   928  48  28
```

COMMENTS FOR USERS:
    UBr: Offset between setups. Many outliers. Do not merge (offset
+ different raster postions).

STAR: HD 35411 (Eta Ori)
   BAb setup1   249   270 92.2   1915 977 48 28
   BAb setup3 21688 37767 57.4   1915 977 48 28
   UBr setup1   349   405 86.2   1819 1000 48 28
   UBr setup2 28632 46657 61.4   1827 1002 48 28

   COMMENTS FOR USERS:
     BAb: Many outliers. Setups can be merged (the same raster position).
     UBr: No clear offset between setups. Many outliers. Do not merge
        (different raster postions).

STAR: HD 35439 (Psi^1 Ori)
   UBr setup1   343   405 84.7   2382 1090 48 28
   UBr setup2 28252 46657 60.6   2392 1092 48 28

   COMMENTS FOR USERS:
     UBr: Offset between setups. Many outliers. Do not merge (offset
        + different raster postions).

STAR: HD 35468 (Gamma Ori)
   BAb setup1   249   270 92.2   3065 1165 48 28
   BAb setup3 21272 37767 56.3   3065 1165 48 28
   UBr setup1   342   405 84.4   2970 1188 48 28

   COMMENTS FOR USERS:
     BAb: Many outliers. Setups can be merged (the same raster position).
     UBr: Very short data.

STAR: HD 35715 (Psi^2 Ori)
   BAb setup1   256   270 94.8   2656 1028 48 28
   BAb setup2 7845 8417 93.2   2656 1028 48 28
   BAb setup3 22070 37767 58.4   2656 1028 48 28
   UBr setup1   344   405 84.9   2562 1052 48 28
   UBr setup2 28065 46657 60.2   2572 1052 48 28

   COMMENTS FOR USERS:
     BAb: Many outliers. Some offsets between setups despite the sanme
        raster position.
     UBr: No clear offset between setups. Many outliers. Do not merge
        (different raster postions).

STAR: HD 36486 (Delta Ori)
```
  BAb setup1   249   270 92.2       2238  777  48  28
  BAb setup2  7684  8417 91.3       2238  777  48  28
  BAb setup3 21677 37767 57.4       2238  777  48  28
  UBr setup1   346   405 85.4       2142  801  48  28
  UBr setup2 28574 46657 61.2       2150  803  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. Setups can be merged (the same raster position).
    UBr: No clear offset between setups. Many outliers. Do not merge
       (different raster postions).

STAR: HD 36861/36862 (Lambda Ori)
```
  BAb setup1   254   270 94.1       3533  939  48  28
  BAb setup2  7625  8417 90.6       3533  939  48  28
  BAb setup3 21555 37767 57.1       3533  939  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. Setups can be merged (the same raster position).

STAR: HD 37043 (Iota Ori)
```
  BAb setup1   249   270 92.2       1516  544  48  28
  BAb setup2  7684  8417 91.3       1516  544  48  28
  BAb setup3 21826 37767 57.8       1516  544  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. Setups can be merged (the same raster position).

STAR: HD 37128 (Epsilon Ori)
```
  BAb setup1   249   270 92.2       2144  617  48  28
  BAb setup3 21914 37767 58.0       2144  617  48  28
  UBr setup1   346   405 85.4       2044  643  48  28
  UBr setup2 29118 46657 62.4       2054  645  48  28
```

  COMMENTS FOR USERS:
    BAb: Many outliers. Setups can be merged (the same raster position).
    UBr: Offset between setups. Many outliers. Do not merge (offset
       + different raster postions).

STAR: HD 37468 (Sigma Ori)
```
  BAb setup1   249   270 92.2       1971  505  48  28
  BAb setup2  7697  8417 91.4       1971  505  48  28
  BAb setup3 21537 37767 57.0       1971  505  48  28
  UBr setup1   345   405 85.2       1875  528  48  28
```

UBr setup2 28043 46657 60.1   1887   528 48 28

COMMENTS FOR USERS:
  BAb: Many outliers. Setups can be merged (the same raster position).
  UBr: Offset between setups. Many outliers. Do not merge (offset
    + different raster postions).

STAR: HD 37490 (Omega Ori)
  UBr setup1   343   405 84.7   2763   673 48 28
  UBr setup2 27268 46657 58.4   2770   676 48 28

COMMENTS FOR USERS:
  UBr: No clear offset between setups. Many outliers. Do not merge
    (different raster postions).

STAR: HD 37742/37743 (Zeta Ori)
  BAb setup1   249   270 92.2   2070   454 48 28
  BAb setup2 7683   8417 91.3   2070   454 48 28
  BAb setup3 21458 37767 56.8   2070   454 48 28
  UBr setup1   341   405 84.2   1972   477 48 28
  UBr setup2 28194 46657 60.4   1982   479 48 28

COMMENTS FOR USERS:
  BAb: Many outliers. Setups can be merged (the same raster position).
  UBr: Offset between setups. Many outliers. Do not merge (offset
    + different raster postions).

STAR: HD 38771 (Kappa Ori)
  BAb setup1   249   270 92.2   1123   105 48 28
  BAb setup2 7681   8417 91.3   1123   105 48 28
  BAb setup3 21618 37767 57.2   1123   105 48 28

COMMENTS FOR USERS:
  BAb: Many outliers. Setups can be merged (the same raster position).

STAR: HD 39801 (Alpha Ori = Betelgeuse)
  BAb setup1   253   270 93.7   3308   269 48 28
  BAb setup2 7713   8417 91.6   3308   269 48 28
  BAb setup3 21234 37767 56.2   3308   269 48 28

COMMENTS FOR USERS:
  BAb: Many outliers. Setups can be merged (the same raster position).