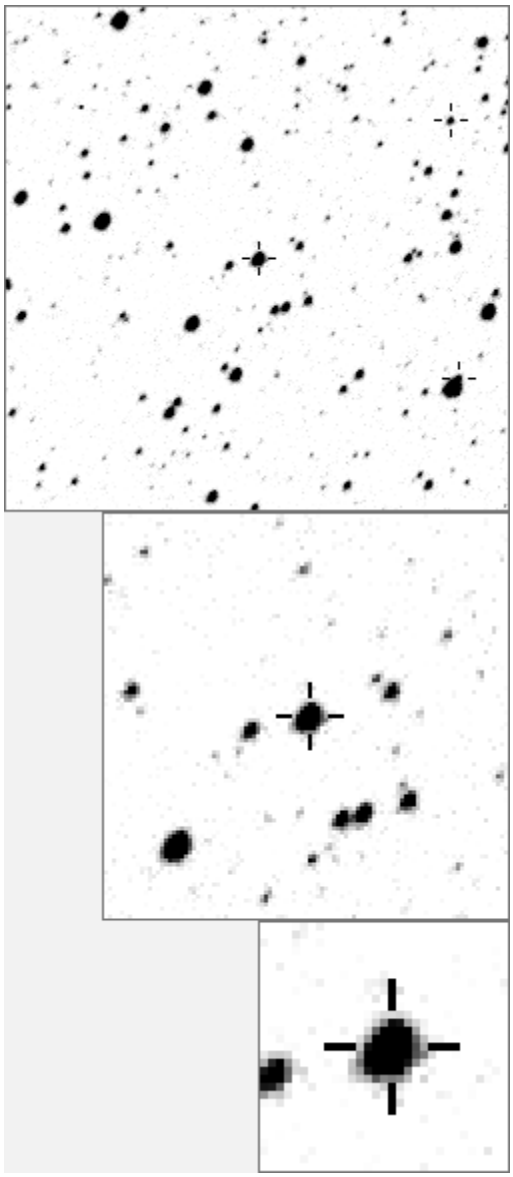
**a00868**



```
variables & brighter stars
. . . b . . . . . . . . . . . .   O   868 v
. . . . . . . . . . . . . . . .   a   139
. . . . . f . . . . . . . . . .   b   335
. . . . . . . . . . . . . . n .   c   345
. . . . . . . g . . . . . . . .   d   456
h . . . . . . . . . . . . . . .   e   705
. . c . . . . . . . . . . . . .   f   991
. . . . . . . O . . . . . i . .   g  1353
. . . . . . . . . . . . . . . .   h  1442 v
. . . . . e . . . . . . . . d .   i  1445
. . . . . . j . . . . . . . . .   j  1481
. . . . . . . . . . . . . m . .   k  2632
. . . . l . . . . . . . . . . .   l  2687
. . . . . . . . . . . . . . . .   m  6091 v
. . . . . . k . . . . . . . . .   n  8670 v
--------------------------------     - -
. . . . . . . . . . . . . . . .   O   868 v
. m . . . . . . . . . . . . . .   a   705
. . . . . . . j . . . . . . . .   b  3981
. . . . . . . . . . . . . . . .   c  5771
. . . . . . . . . . . . . l . .   d  6113
. . . . . . . . . . . . . . . .   e  7229
. g . . . . . . . . . i . . . .   f  7937
. . . . . . . O . . . . . . . .   g 10787
. . . . . . e . . . . . . . . .   h 19725
. . . . . . . . . . . . . . . .   i 24217
. . . . . . . . . . . . n . . .   j 26231
. . . . . . . . . d b . . . . .   k 29907
. . a . . . . h . . . . . . . .   l 31295
. . . . . . . . . . . . . . . .   m 31704
. . . . . . k . . . . . . . . .   n 34439
```

Bitmap sizes are 251, 101 and 31 pixels square, South up. The keys to the right refer to the 1st two bitmaps. The numbers in the key are those in my catalogue 'starlistA'. Stars marked with a cross have been found to be variable.

**Data and comments on star a00868**

SWid: a00868 / **USNO id: 3592 684901 / other id:**

Co-ordinates, x,y in image z1051: 1070.2 3514.7

**J2000 sky co-ordinates: 21 4 33.08 +47 27 12.05**

CMC r'magnitude and 2MASS J,H,K magnitudes: 11.004 10.14 10.016 10.033

USNO B1.0 magnitudes, B1,R1,B2,R2,I2: 11.48 10.76 11.26 10.73 10.52

Misc comments :

mar08, new eb. Only mins at 1812.333 and 2534.374 giving period of 16.04536 (45) which overlay suggests, amp 150mmag. The min difference is 722.041d which is 45 times **16.04536.**

There is a partial dip in 1411 which confirms that period. There is also a partial min in 2903. I did not spot a secondary.

Type 1 plotavset 868 705 and then try:

10 0 2 10 2 runoverlay2a 1320 16.0452- if I remember rightly the dip is at a phase of 0.68.

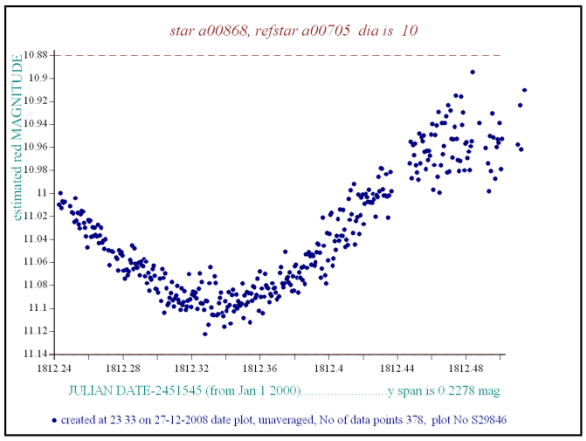
VERY interestingly you can see a number of diurnal downward movements. If you measure the phase difference between any two of these and multiply by the period it comes to very close to one day.

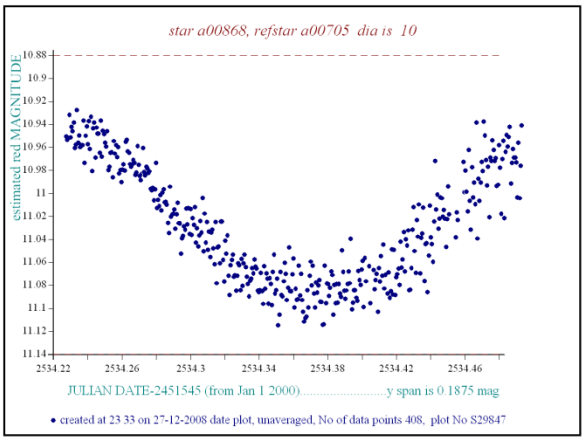
This is a clear indication of inadequate compensation on some (not all) days .

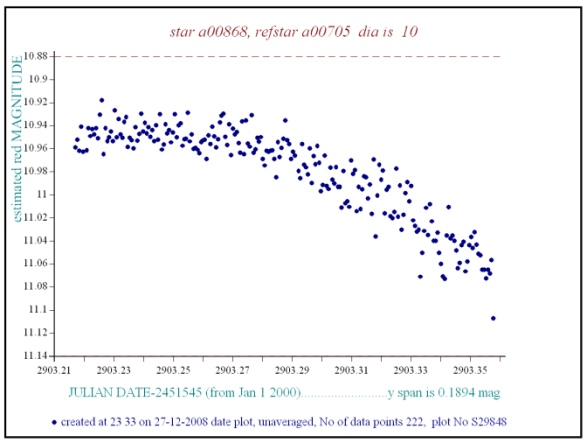
Ref 705, in 11.04mag 2903.344 out 11.04 1411.265 out 11.04 on 2534.437 giving to 1411.265 1123.172 or 70×16.04531 . To 705 magm 10.940 magr 11.090 or 0.15.

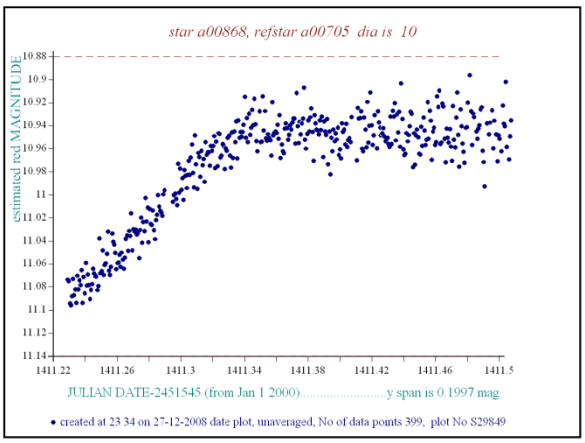
Comparison reference star(s) co-ordinates:
**a00705: 21 4 25.3 +47 28 26.38**

NB: I need to search seasons 6 and 7 for more movements and get CMC mags.



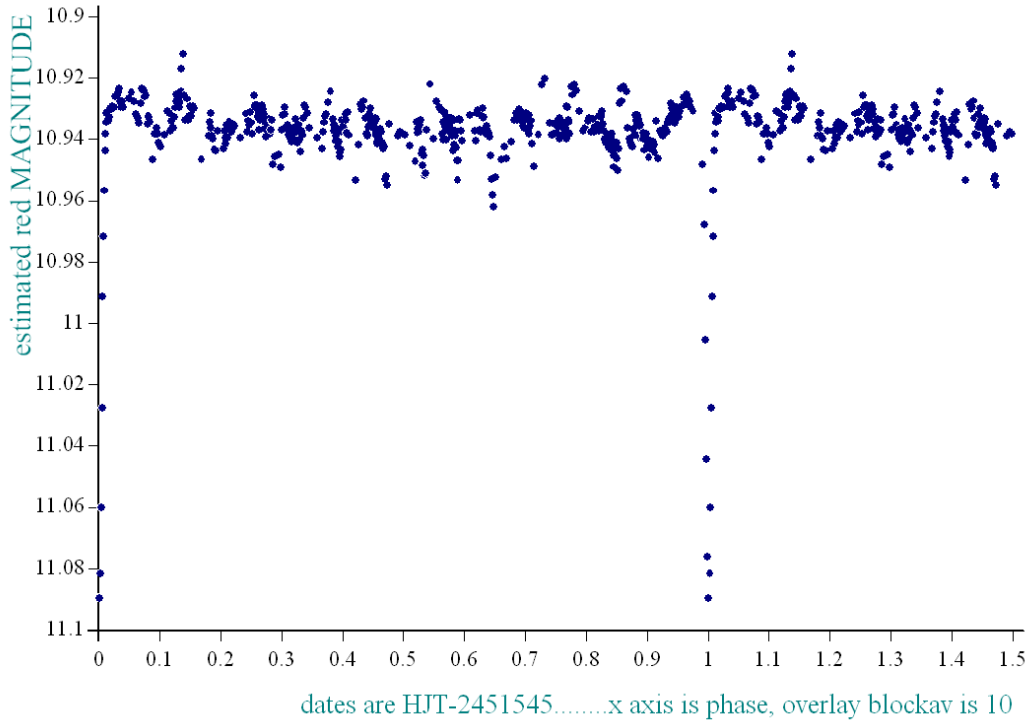



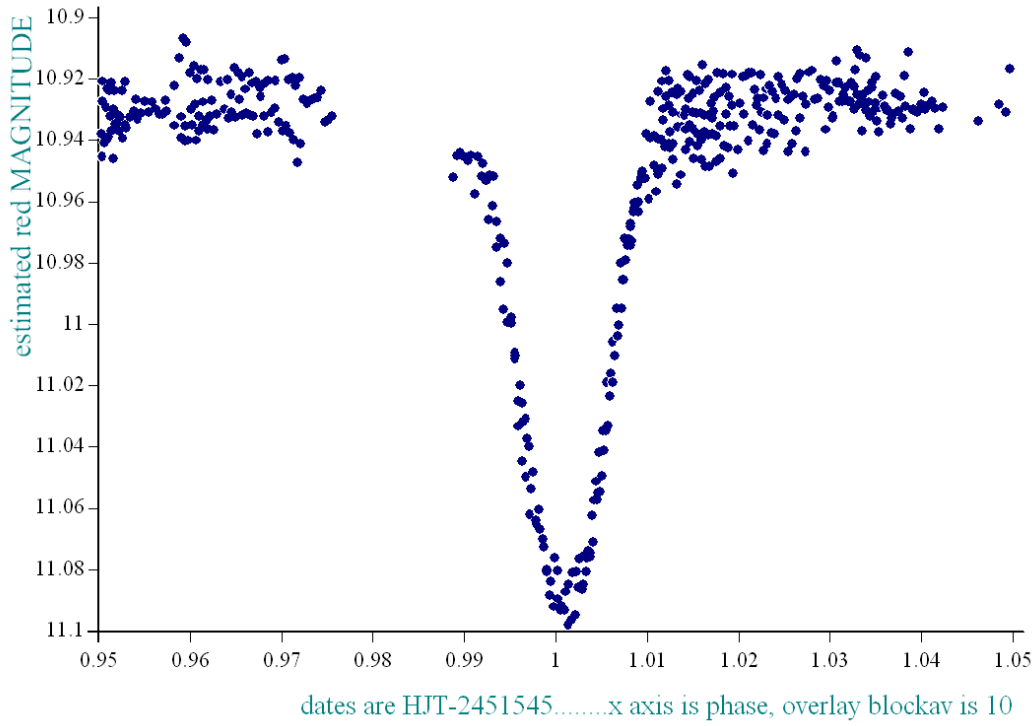

Reminder:
season 1: dates 1316 to 1553 is 9/8/2003 to 3/4/2004 **(a)**
season 2: dates 1696 to 1838 is 23/8/2004 to 12/01/2005 **(z)**
season 3: dates 2085 to 2177 is 16/9/2005 to 17/12/2005 **(y)**
season 4: dates 2442 to 2755 is 8/9/2006 to 19/7/2007 **(w)**
season 5: dates 2772 to 2903 is 4/8/2007 to 13/12/2007 **(v)**
season 6: dates 2930 to 3266 is 9/1/2008 to 10/12/2008 **(u)**
season 7: dates 3403 to 3539 is 26/4/2009 to 10/9/2009 **(t)**

*star a868 dates 1344-2903, dia 10, ref a705, epoch 1700, period 16.04534*




• created at 23 55 on 27-12-2008 phase plot, No of data points 54902, plot No S29871

*star a868 dates 1344-2903, dia 10, ref a705, epoch 1700, period 16.04534*




• created at 23 56 on 27-12-2008 phase plot, No of data points 54902, plot No S29872