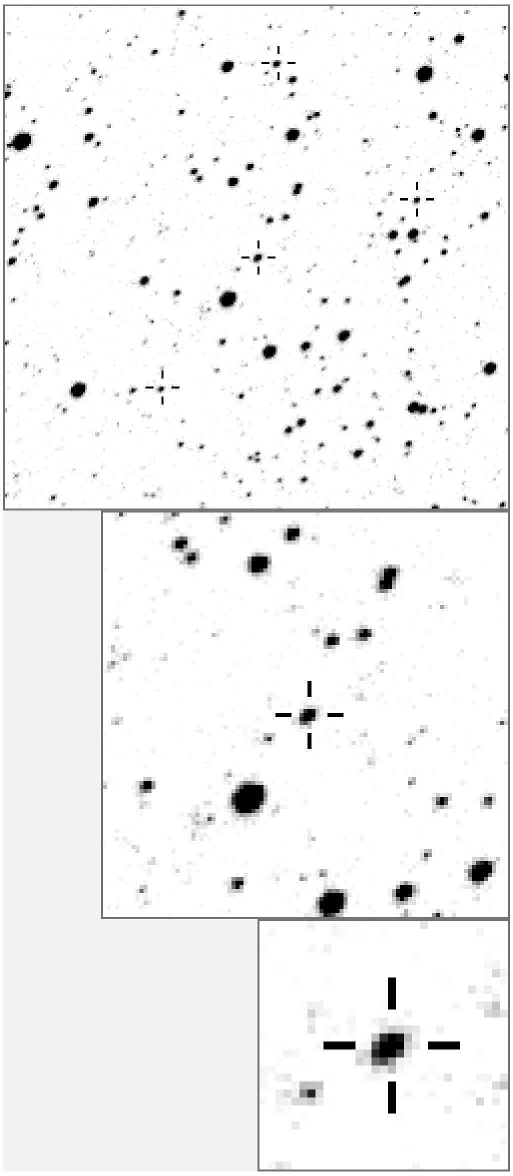
a07192



```
variable and brighter stars
. . . . . . . . . . . . . . .   o  7192 v
. . . . . . i . l . . . . . .   a   180
. . . . . . . . . . . . b . .   b   310
. . . . . . . . g . . . . . f   c   365
a . . . . . . . . . . . . . .   d   633
. . . . . . . . . . . . m . .   e  1041
. . . . . . . . . . . . . . .   f  1141
. . . . . . . o . . . . . . .   g  1154
. . . . . . c . . . . . . . .   h  1574
. . . . . . . . . . j . . . .   i  1693
. . . . . . . e . . . . . . h   j  2310
. . d . n . . . . . . . k . .   k  2536
. . . . . . . . . . . . . . .   l  9576 v
. . . . . . . . . . . . . . .   m 14490 v
. . . . . . . . . . . . . . .   n 15584 v
---------------------------------    - -
. . . . . . h . . . . . . . .   o  7192 v
. . i n . d . . . . . . . . .   a   365
. . . . . . . . . . g . . . .   b  1041
. . . . . . . . . . . . . . .   c  2310
. . . . . . . . l j . . . . .   d  4081
. . . . . . . . . . . . . . .   e  5666
. . . . . . . . . . . . . . .   f  7059
. . . . . . . o . . . . . . .   g  7474
. . . . . . . . . . . . . . .   h  9942
. . . . . . . . . . . . . . .   i 11491
. k . . . a . . . . . . . . .   j 12607
. . . . . . . . . . . . . . .   k 13145
. . . . . . . . . . . . . . .   l 14049
. . . . m . . . . . . . . c .   m 15019
. . . . . . . . b . . e . . .   n 15139
```

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 a07192

SWid: a07192 / **USNO id: 1371 473529 / other id:**

Co-ordinates, x,y in image z1051: 1001 3048.7

J2000 sky co-ordinates: 21 4 18.07 +47 8 46.39

CMC r'magnitude and 2MASS J,H,K magnitudes: 13.032 10.973 10.342 10.154

USNO B1.0 magnitudes, B1,R1,B2,R2,I2: 14.95 12.33 14.83 12.94 11.64

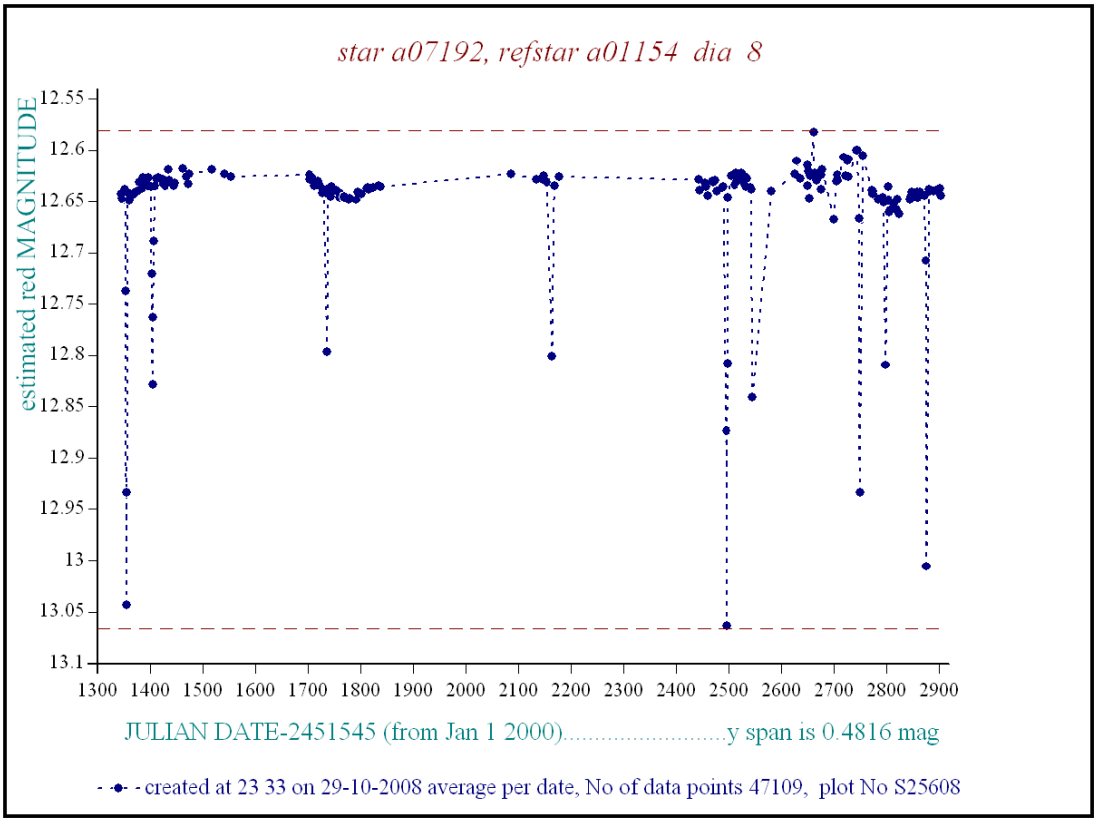
Misc comments :

Another rpas Jul 08 eb. Mins 1354 1404 1736 2164 2496 2545 2749 2798 2876 . Use ref 1041.

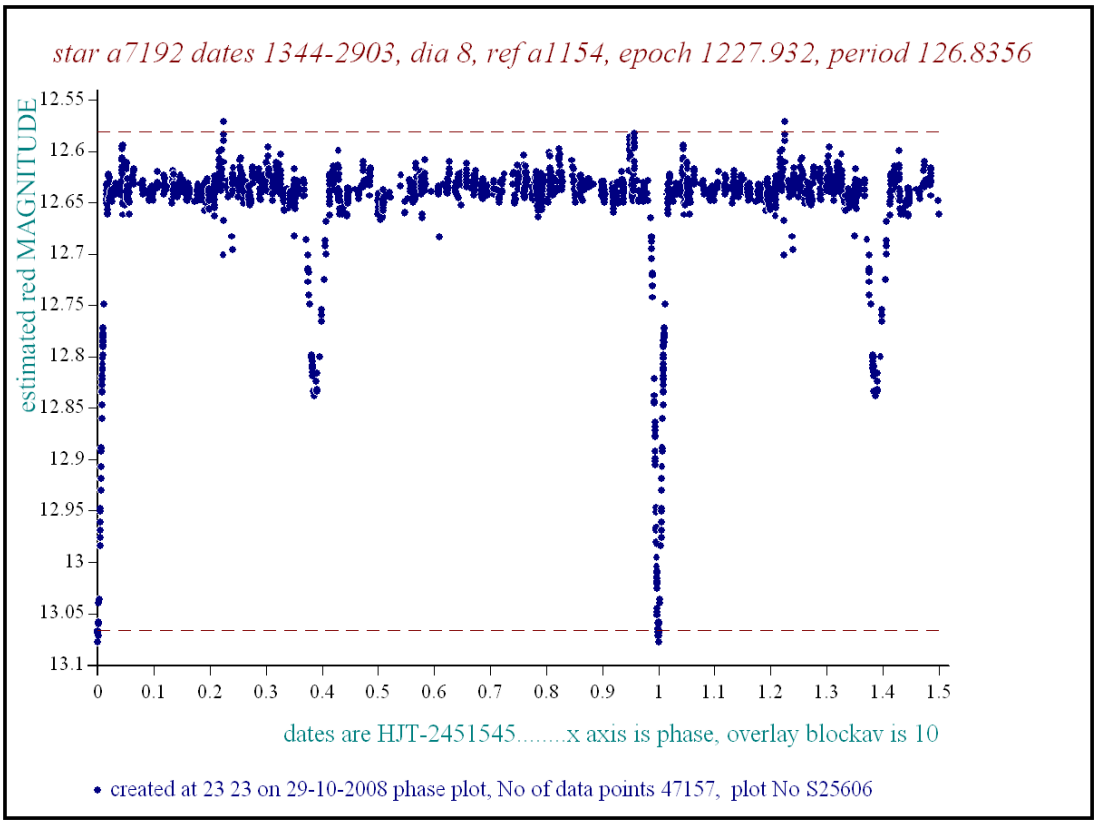
Period is 95.126d I think, magm 13.85, magr to 14.30 or 0.45,
depth of sec is to 14.07 or 0.22. Phase difference is 0.483
Period in fact 126.8356d, phi2 is 0.387, to ref 1154 magm 12.63 magr 0.5
B21/86
Comparison reference star(s) co-ordinates:
a01154: 21 4 22.36 +47 6 21.08

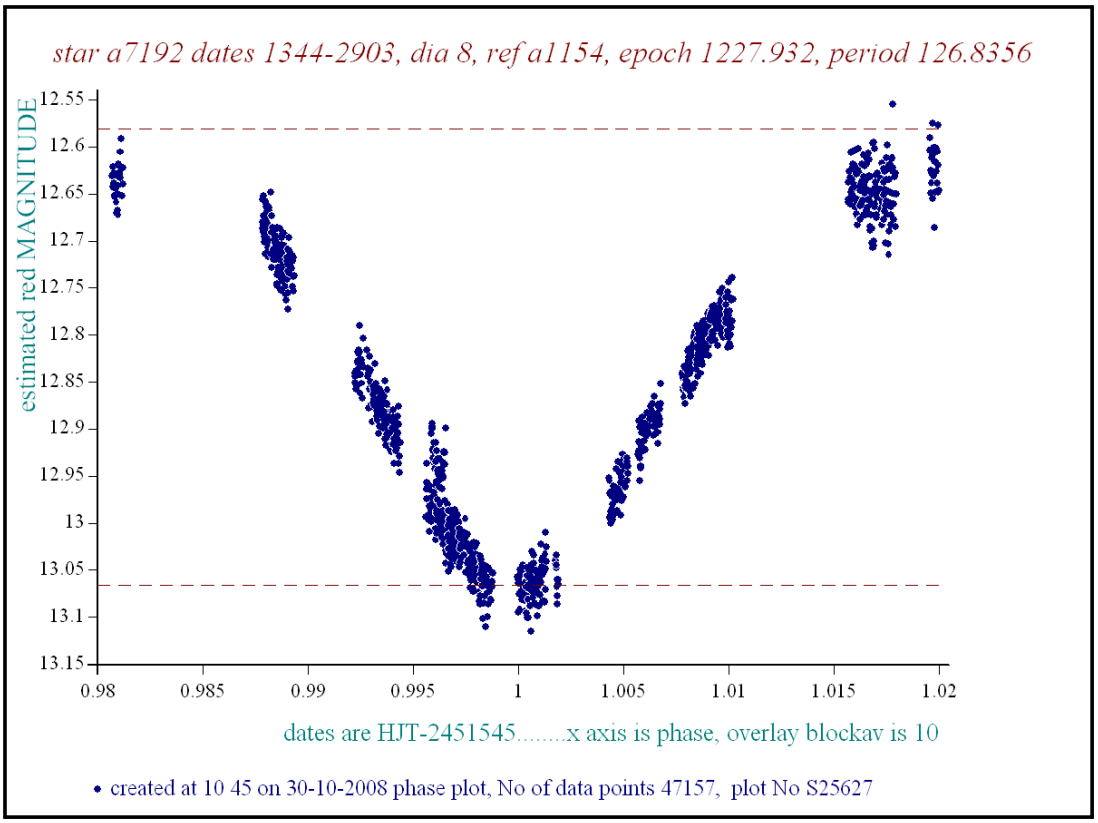
CMC mags needed really

Reminder: **All dates, JD and HJD are from Jan 1st 2000**
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)**

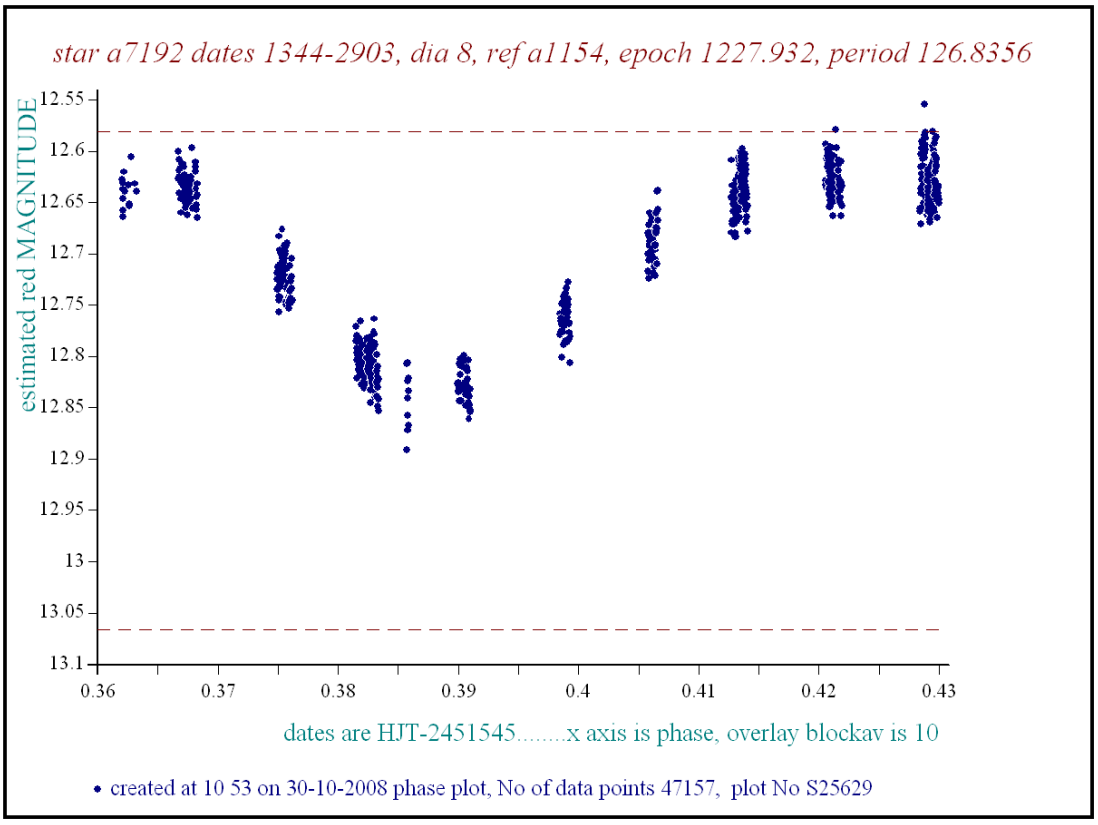


It is unusual, for me, to see a day-average light curve for an eclipsing binary where several days play a part in the same minimum. Three days are involved on two occasions and four near to 1404 (November 5th 2003).
The period turns out to be 126.8356 days with φ2=0.387.





The primary depth is 0.50+/-0.02mag, the secondary is 0.22+/-0.02mag
The downslope and upslope for the primary are very nearly the same at 0.29mag/day. For the secondary they are slower, smaller and different at 0.091 and 0.069 (1st part) mags/day


star a7192 dates 1344-2903, dia 8, ref a1154, epoch 1227.932, period 126.8356
estimated red MAGNITUDE
12.55
12.6
12.65
12.7
12.75
12.8
12.85
12.9
12.95
13
13.05
13.1
0.36
0.37
0.38
0.39
0.4
0.41
0.42
0.43
dates are HJT-2451545.....x axis is phase, overlay blockav is 10
created at 10 53 on 30-10-2008 phase plot, No of data points 47157, plot No S25629