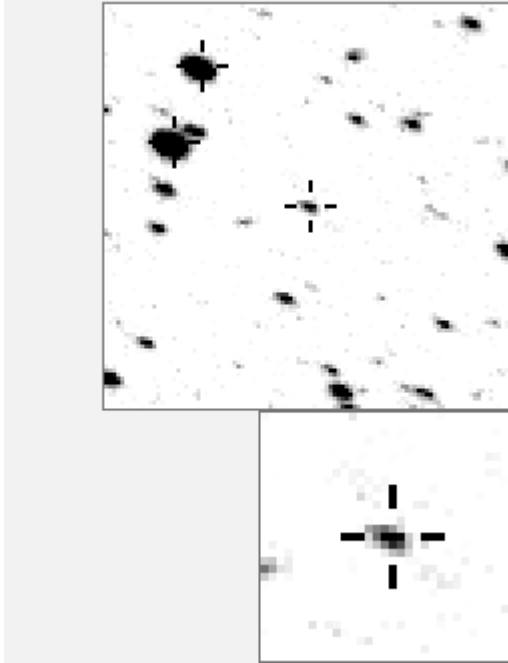


**a11537**



-----		- -
. . . . . g .	O 11537	v
. . . . .	a 321	v
. . . b . . . . .	b 600	v
. . . . .	c 4768	
. . . f . . . . m . h . . .	d 4824	
. . a . . . . .	e 7658	
. . e . . . . .	f 8445	
. . . . . O . . . . .	g 9582	v
. j . . . . .	h 10635	
. . . . .	i 11189	
. . . . . i . . . . .	j 12754	
. . . . . . . . n . . .	k 13794	
. k . . . . .	l 15597	
c . . . . .	m 15627	
. . . . . d . . l . . . .	n 16610	

Bitmap sizes are 101 and 31 pixels square, South up. The keys to the right refers to the top bitmap. 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 a11537**

SWid: a11537 / **USNO id: 1368 436251 / other id:**

Co-ordinates, x,y in image z1051: 3983.3 2627.7

**J2000 sky co-ordinates: 21 15 50.54 +46 51 34.31**

CMC r'magnitude and 2MASS J,H,K magnitudes: 13.567 12.279 12.05 11.975

USNO B1.0 magnitudes, B1,R1,B2,R2,I2: 14.41 12.81 14.61 13.24 12.87

Misc comments :

Aug 08, new strong short eb, 2 d or less 1.306437 or half that. To 54 magm is 13.2, magr 0.31

Image co-ordinates in z1051: 3984 2628

Comparison reference star(s) co-ordinates:

**a00054: 21 14 36.8 +46 46 46.1**

colour temp estimate: 5328 K

More work needed to confirm the period as 1.306437 or 0.6532185

Reminder: **All dates, JD and HJD are from Jan 1<sup>st</sup> 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)

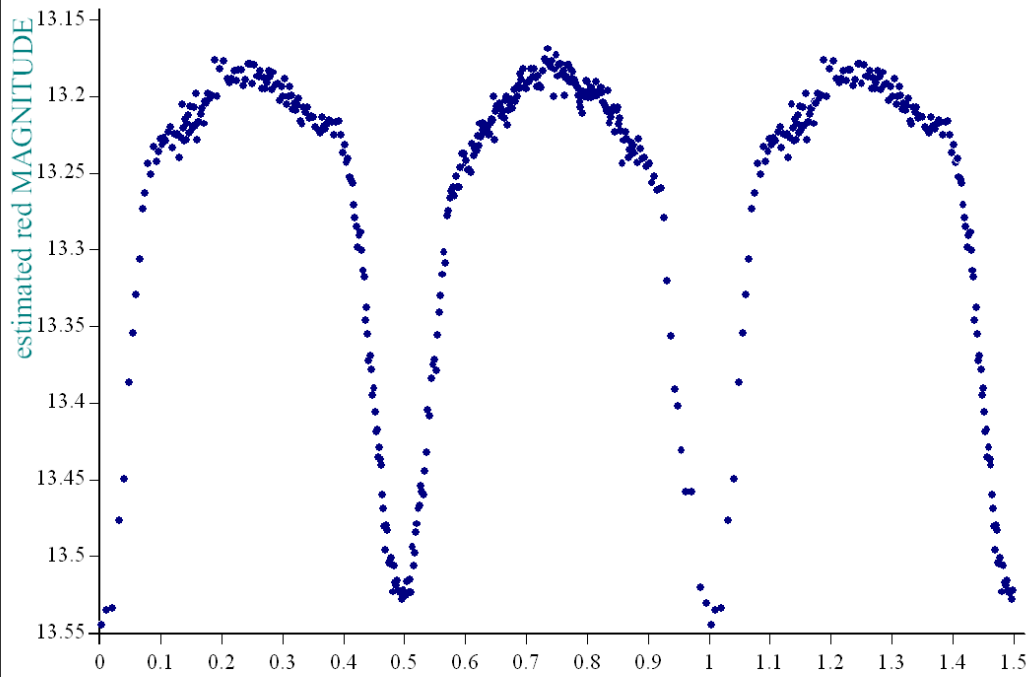
season 4: dates 2442 to 2755 is 8/9/2006 to 19/7/2007 (w)

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)

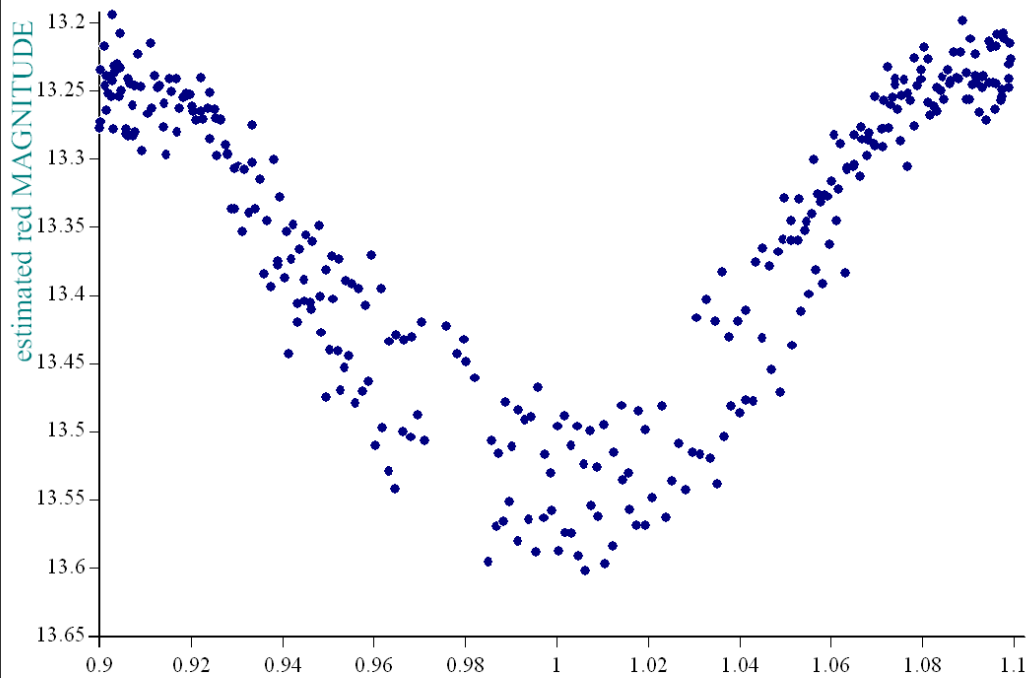
season 7: dates 3403 to 3539 is 26/4/2009 to 10/9/2009 (t)

*star a11537 dates 1702-1838, dia 9, ref a54, epoch 1339.016, period 1.306437*

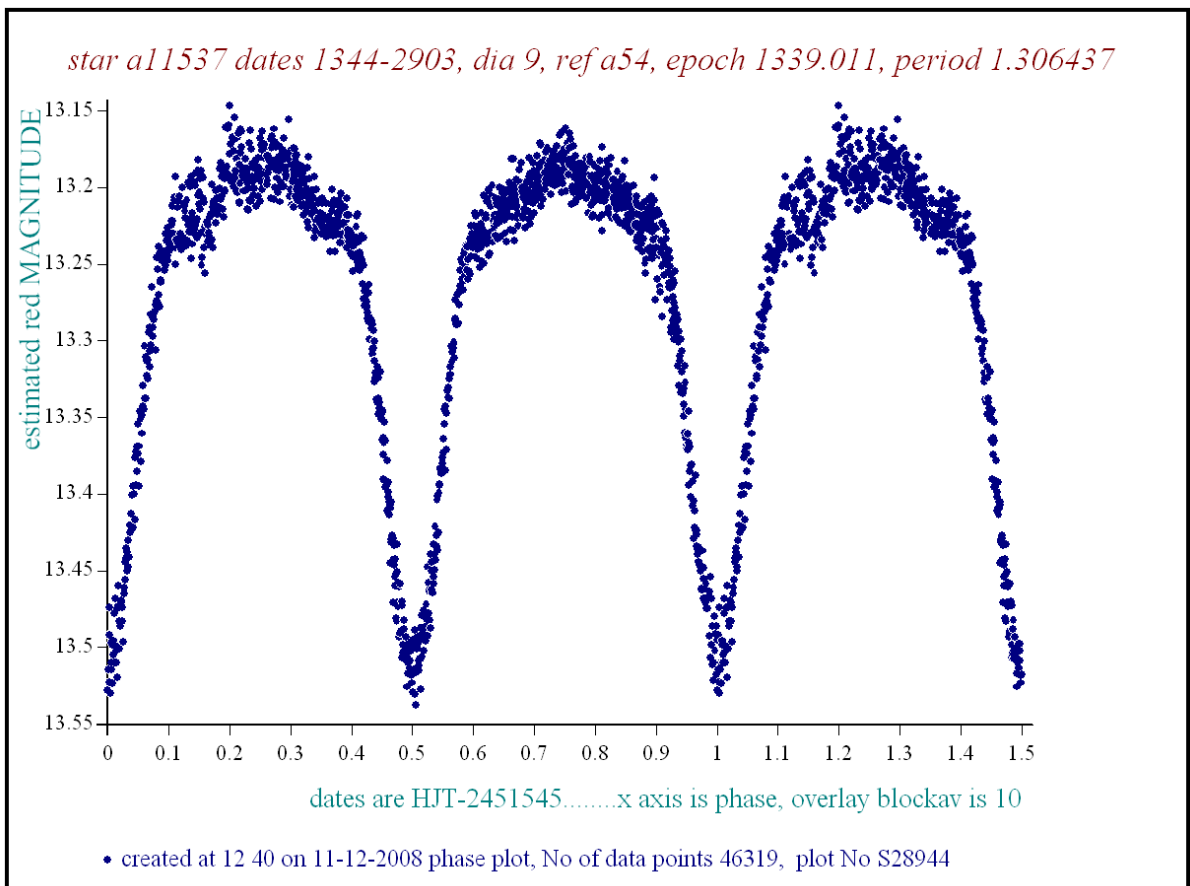
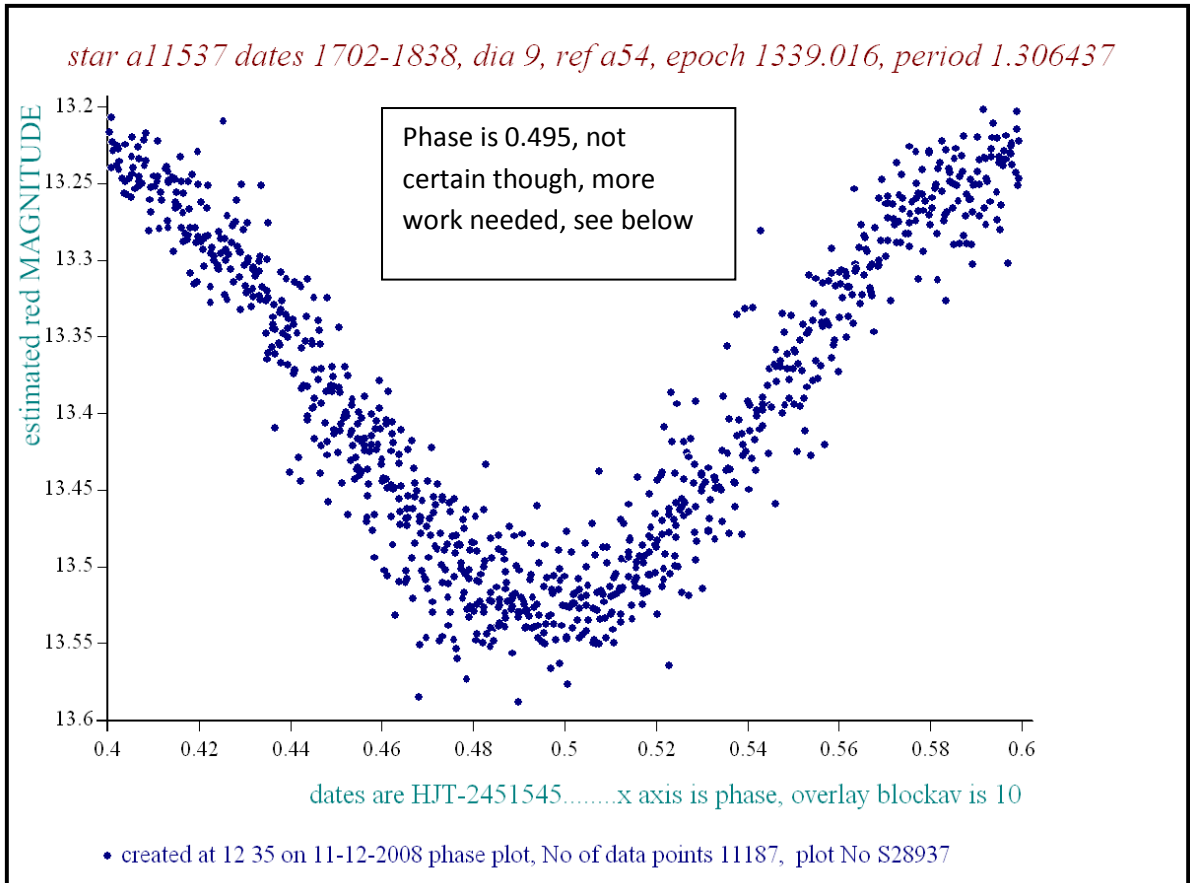


• created at 12 33 on 11-12-2008 phase plot, No of data points 11187, plot No S28934

*star a11537 dates 1702-1838, dia 9, ref a54, epoch 1339.016, period 1.306437*

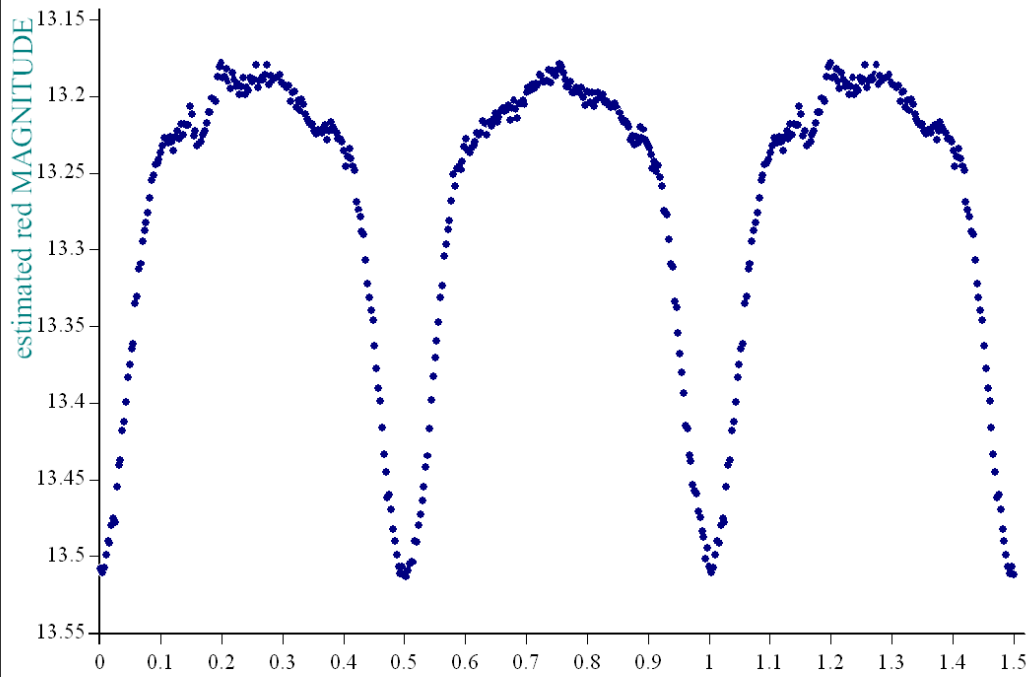


• created at 12 34 on 11-12-2008 phase plot, No of data points 11187, plot No S28935



I'm now far from certain that the minima do really differ, the period may be half, see last plot. However, the phase averaged plot below seems to show a kink on just one half, more study is needed

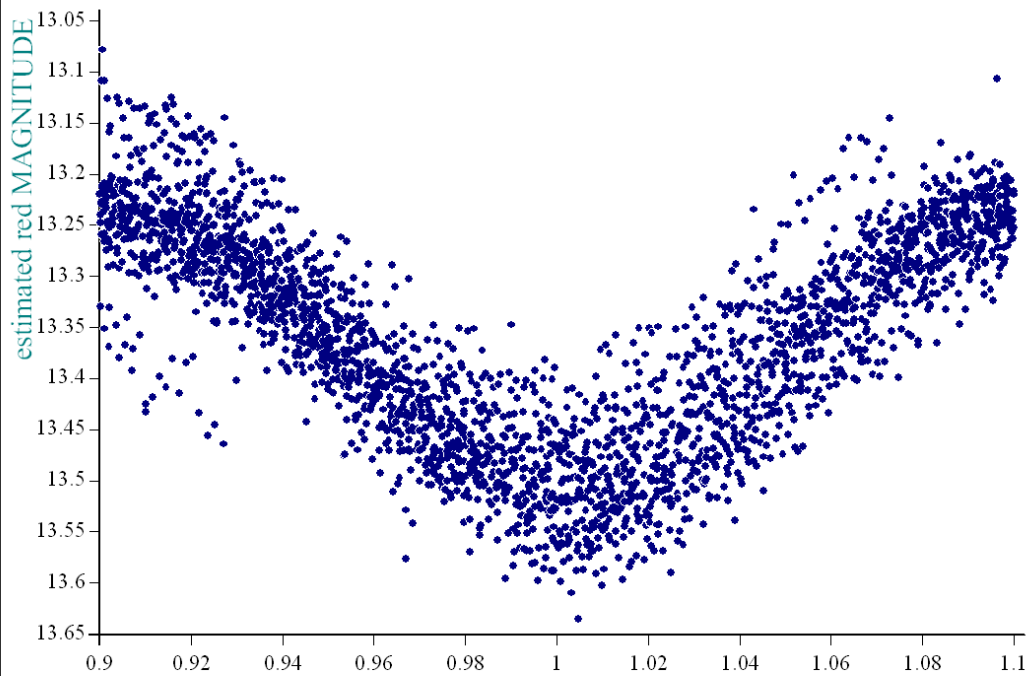
*star a11537 in dates 1344-2903, dia 9, ref a54, epoch 1339.011, period 1.306437*



dates are HJT-2451545.....x axis is phase, 0.3% phaseaverage, no timeaverage

• created at 12 47 on 11-12-2008 phase plot, No of data points 46319, plot No S28952

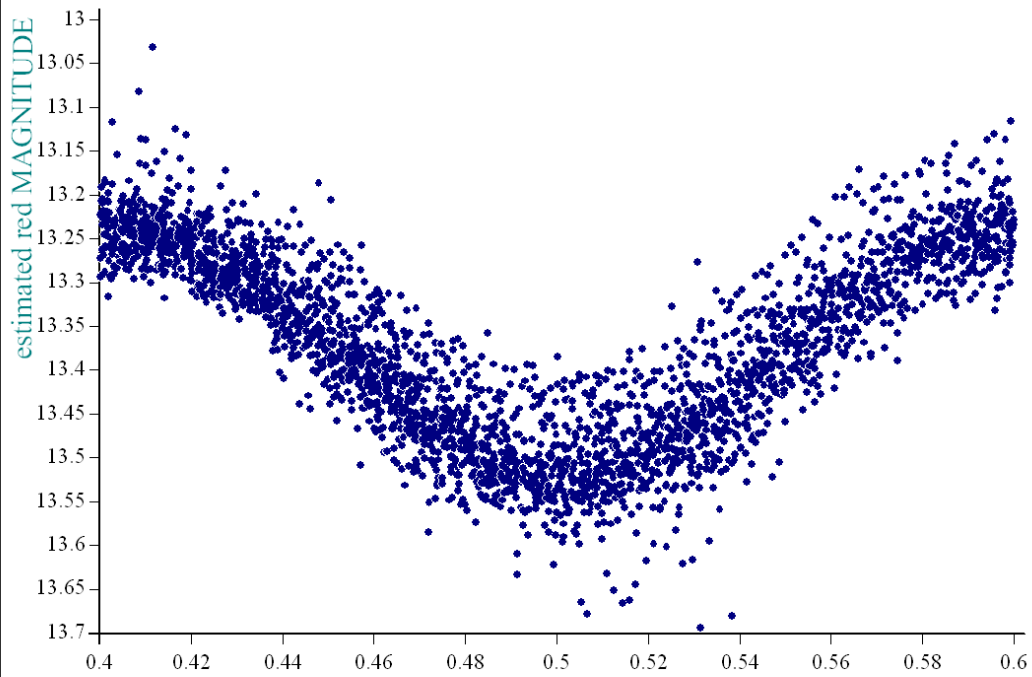
*star a11537 dates 1344-2903, dia 9, ref a54, epoch 1339.011, period 1.306437*



dates are HJT-2451545.....x axis is phase, overlay blockav is 10

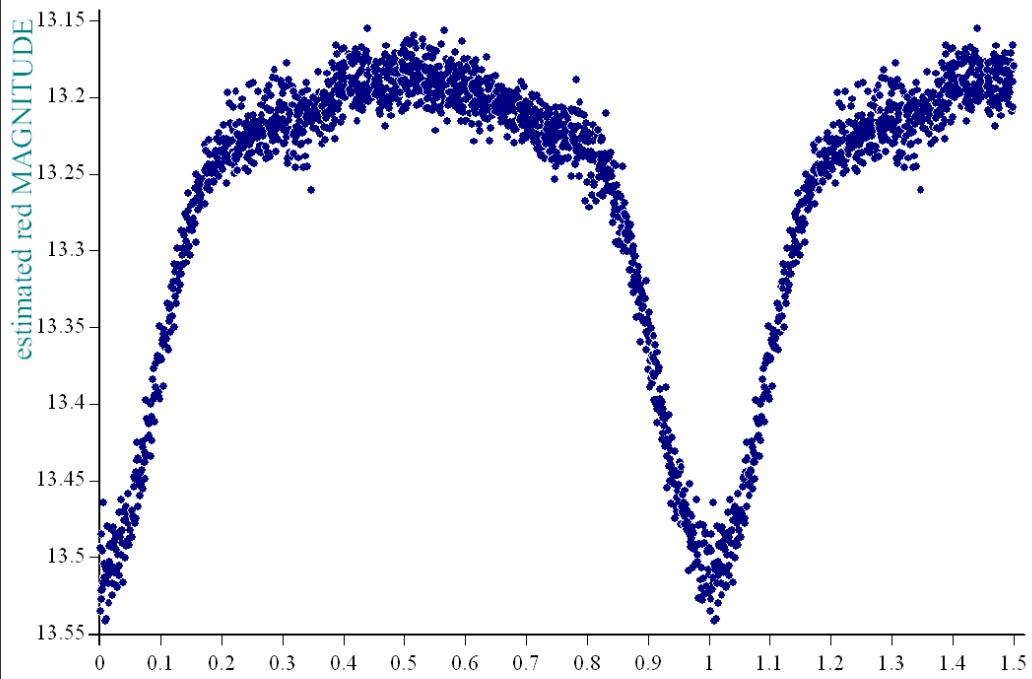
• created at 12 40 on 11-12-2008 phase plot, No of data points 46319, plot No S28943

*star a11537 dates 1344-2903, dia 9, ref a54, epoch 1339.011, period 1.306437*



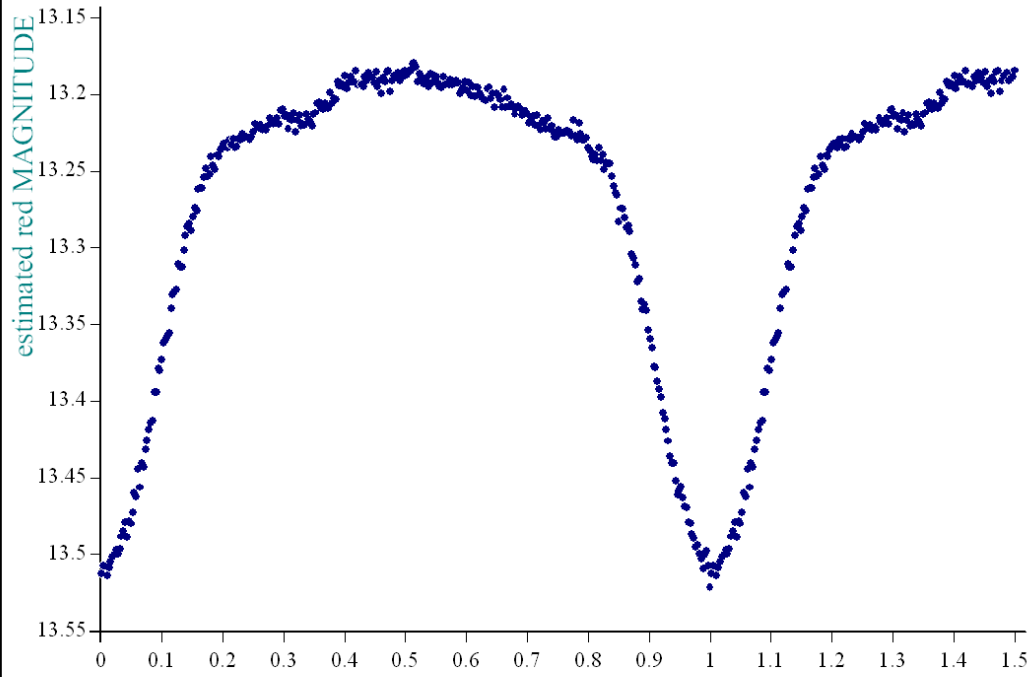
• created at 12 41 on 11-12-2008 phase plot, No of data points 46319, plot No S28945

*star a11537 dates 1344-2903, dia 9, ref a54, epoch 1339.011, period 0.6532185*



• created at 12 44 on 11-12-2008 phase plot, No of data points 46319, plot No S28946

*star a11537 in dates 1344-2903, dia 9, ref a54, epoch 1339.011, period 0.6532185*



dates are HJT-2451545.....x axis is phase, 0.3% phaseaverage, no timeaverage

• created at 12 46 on 11-12-2008 phase plot, No of data points 46319, plot No S28950