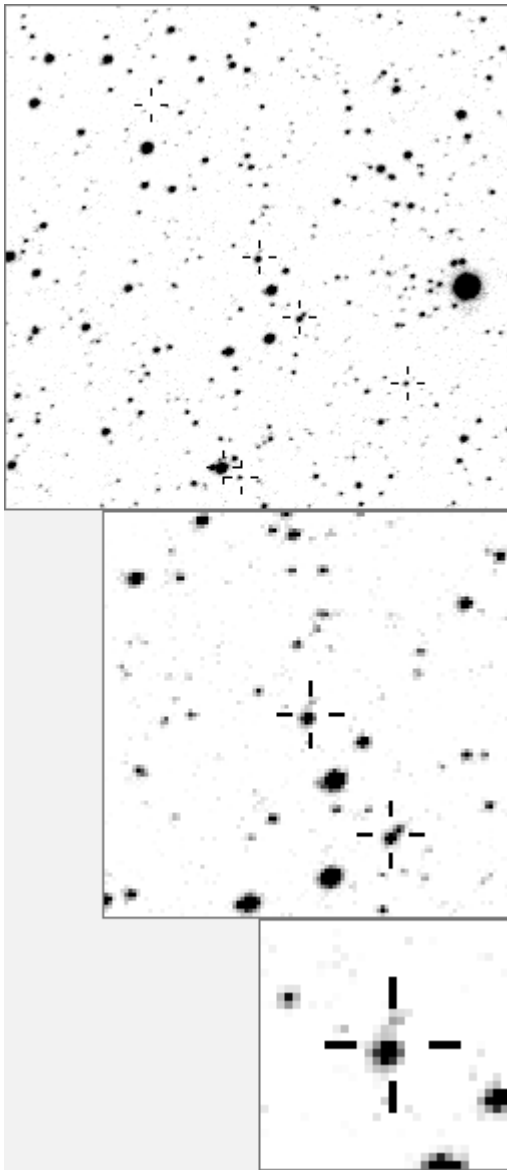


a09980



variable and brighter stars				
. l	O	9980	v	
. i . h	a	844		
f . . . k	b	1147	v	
. g	c	1594		
. a	d	1705		
.	e	1828		
.	f	2478		
d O	g	2549		
. e	h	2700		
. c j	i	2937		
.	j	10145	v	
.	k	11459	v	
.	l	12601	v	
. b	m	18753	v	
. n	n	20658	v	

. h	O	9980	v	
.	j	a	1594	
. d	b	1828		
.	e	c	3196	
.	d	7692		
.	e	9826		
.	f	10145	v	
.	g	10716		
.	O	g	10978	
.	g	n	h	10978
.	b	i	13596	
.	j	15678		
. m	l	k	16461	
.	f	l	19345	
.	a	m	19982	
k c	n	20322		

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 a09980

SWid: a09980 / **USNO id: 1369 435874 / other id: GSC 3592-2803**

Co-ordinates, x,y in image z1051: 1227.7 2753.4

J2000 sky co-ordinates: 21 5 11.5 +46 57 13.48

CMC r'magnitude and 2MASS J,H,K magnitudes: 13.391 12.742 12.668 12.639

USNO B1.0 magnitudes, B1,R1,B2,R2,I2: 13.38 12.3 14.05 12.69 13.15

Misc comments :

lovely eb **R has much detail in his report***. The lc in 3/4 is different from 4/5, see plots
 Pz is 0.97937 or half that, to 90 magm 13.0, magr 0.3, phi 0.5 perhaps (R 0.979319)

The strange movement 1516 on or the possible wrong step may be to blame. No, I ran it with up to 1360 and after 1500 removed with no great effect
Both movements persist with v close ref 1828. The phase plot in 2003 seem to show different minima, also in 2006 but 2004 and 2007 have equal minima...

Comparison reference star(s) co-ordinates:

a00844: 21 5 47.33 +46 59 46.66

a01828: 21 4 58.82 +46 54 58.83

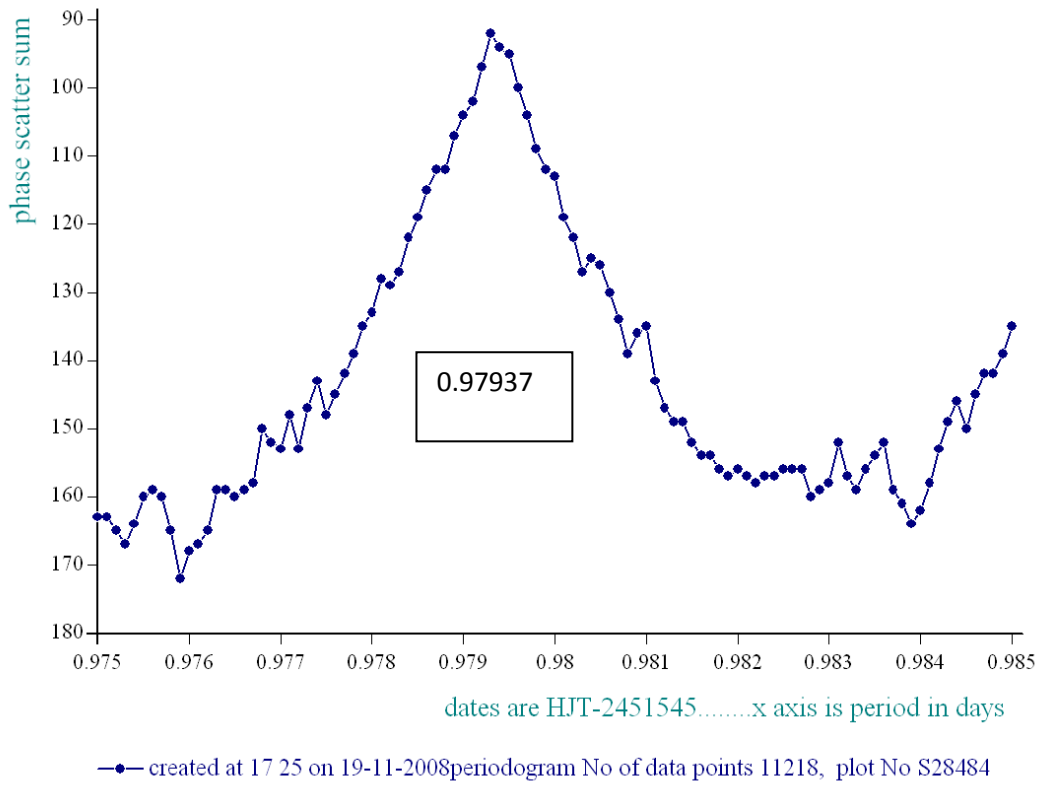
a00090: 21 5 13.11 +46 57 49.87

***See report a09980RS**

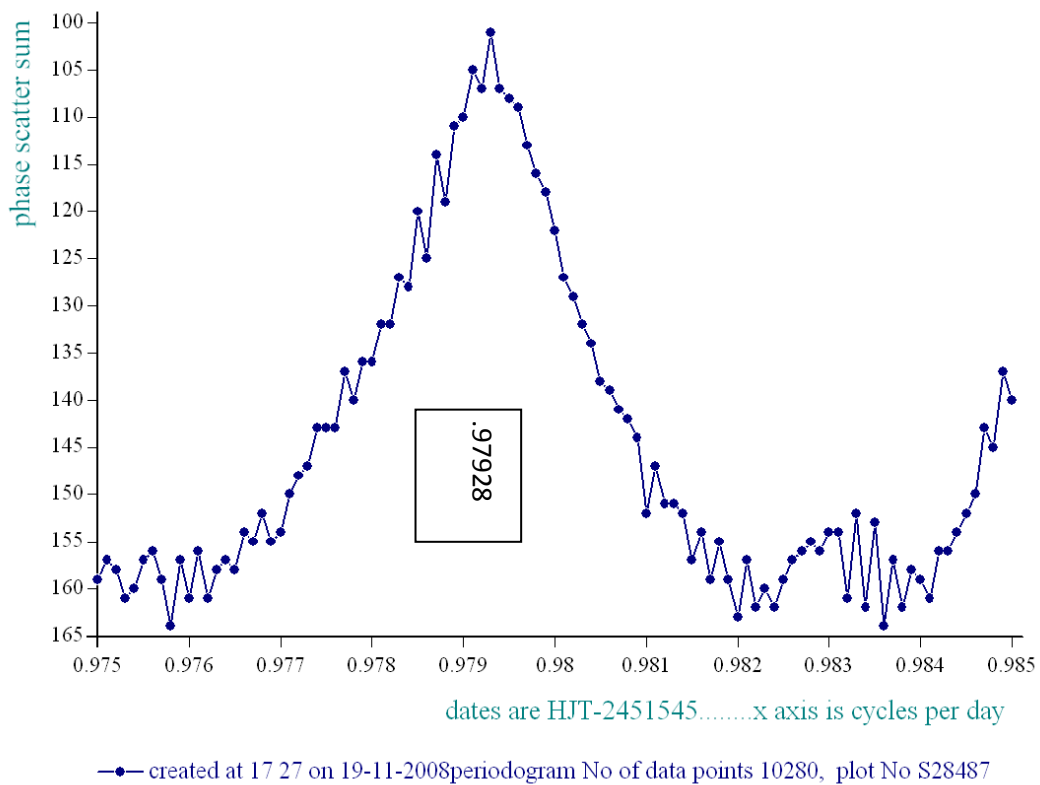
Reminder: All dates, JD and HJD are from Jan 1st 2000

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)

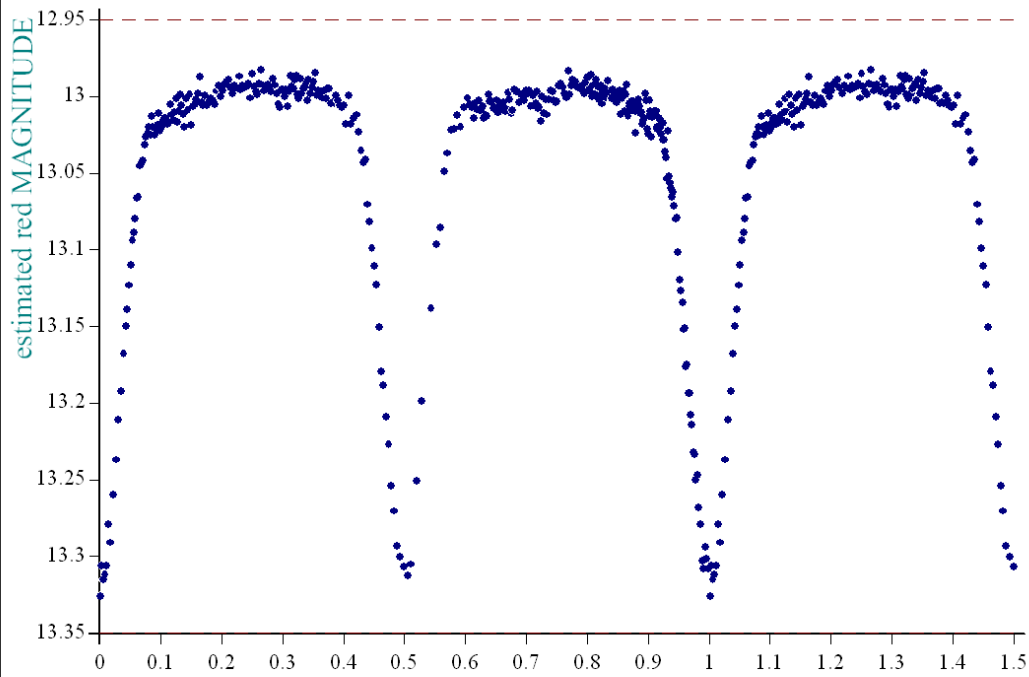
periodogram of star a9980 in dates 1702-1838, dia 11, ref a844



periodogram of star a9980 in dates 2772-2903, dia 11, ref a844

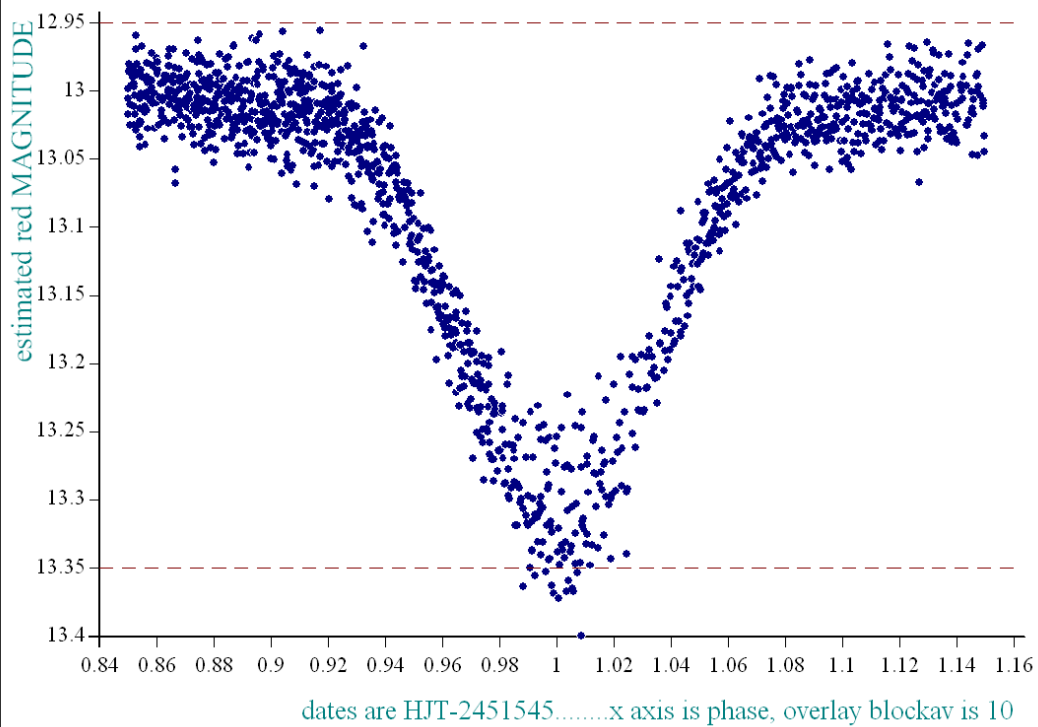


star a9980 dates 1702-1838, dia 11, ref a90, epoch 1219.93532, period 0.97937



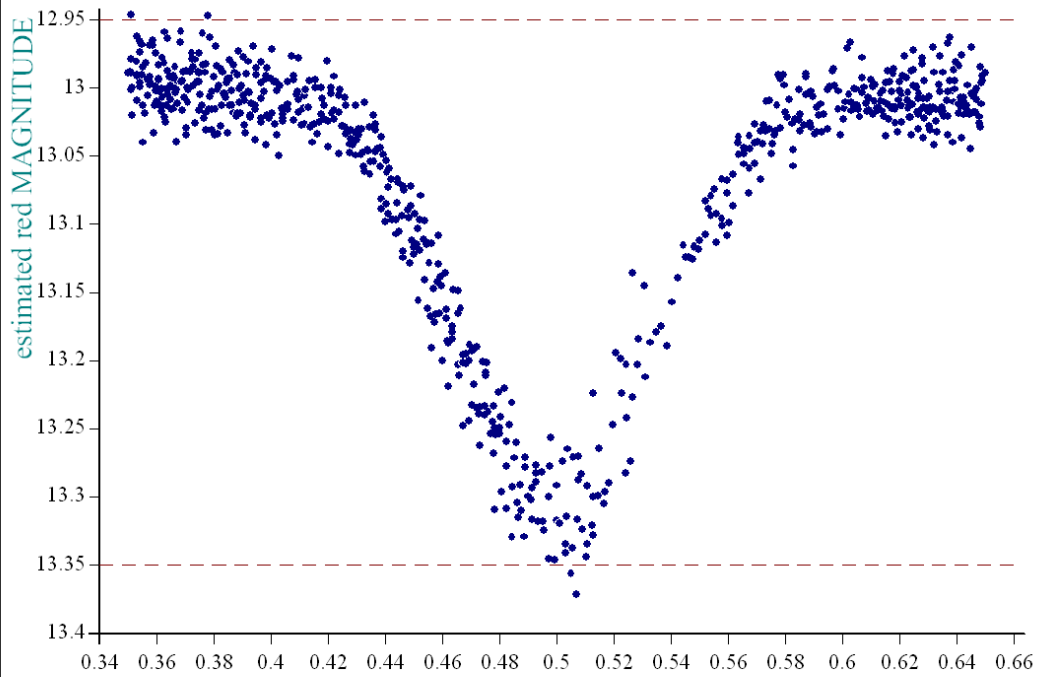
• created at 17 40 on 19-11-2008 phase plot, No of data points 11204, plot No S28495

star a9980 dates 1702-1838, dia 11, ref a90, epoch 1219.93532, period 0.97937



• created at 17 40 on 19-11-2008 phase plot, No of data points 11204, plot No S28496

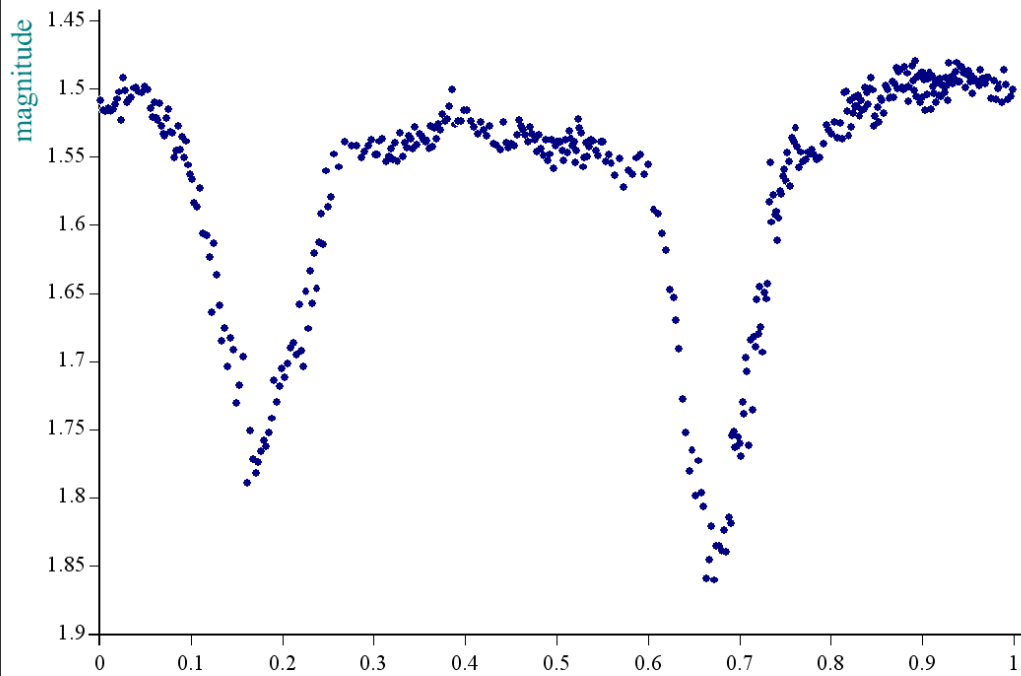
star a9980 dates 1702-1838, dia 11, ref a90, epoch 1219.93532, period 0.97937



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

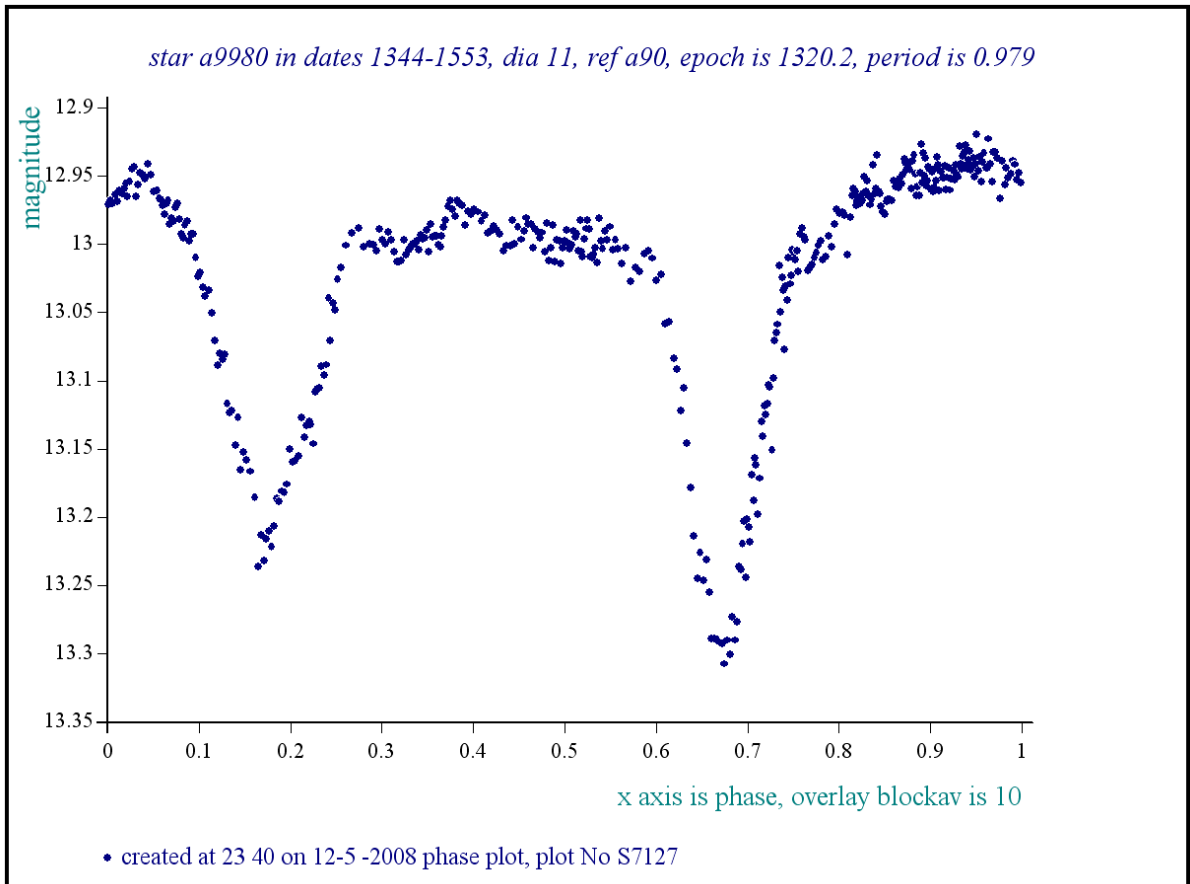
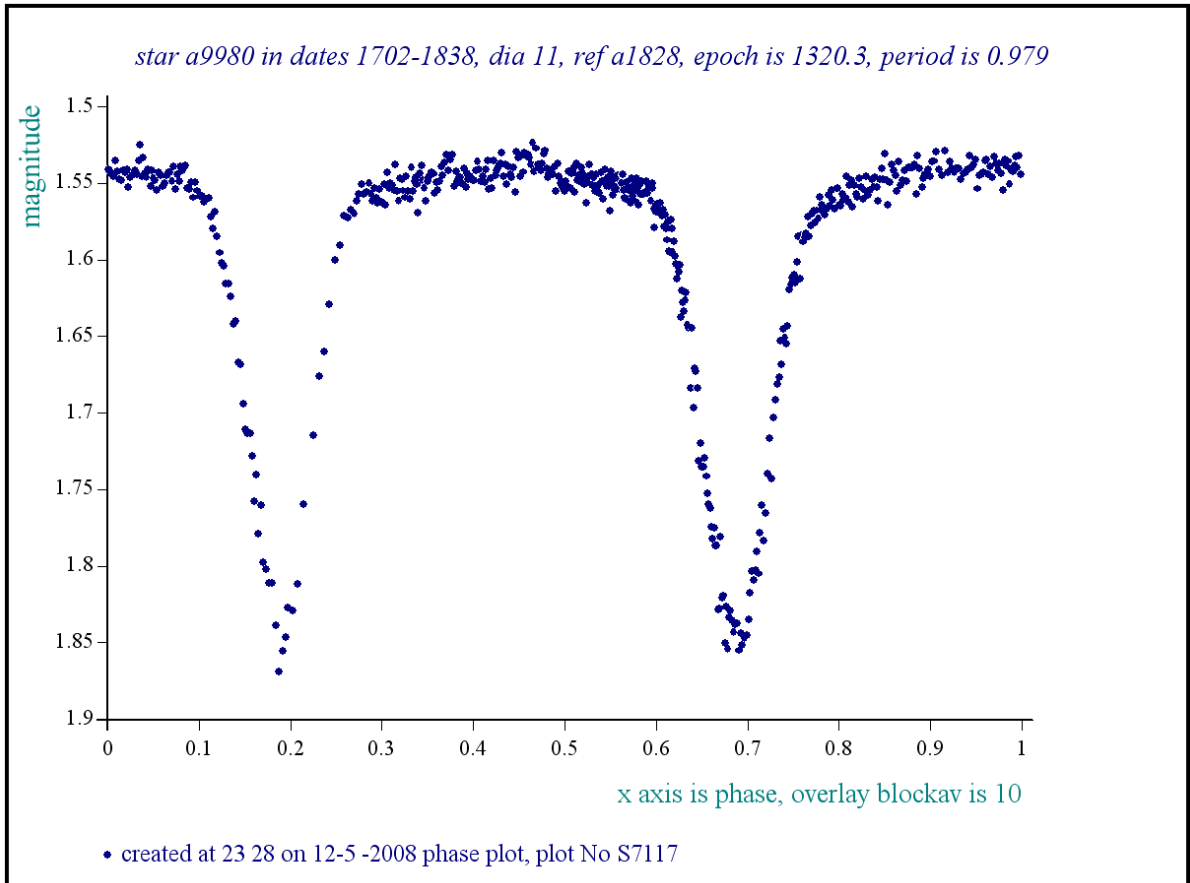
• created at 17 41 on 19-11-2008 phase plot, No of data points 11204, plot No S28500

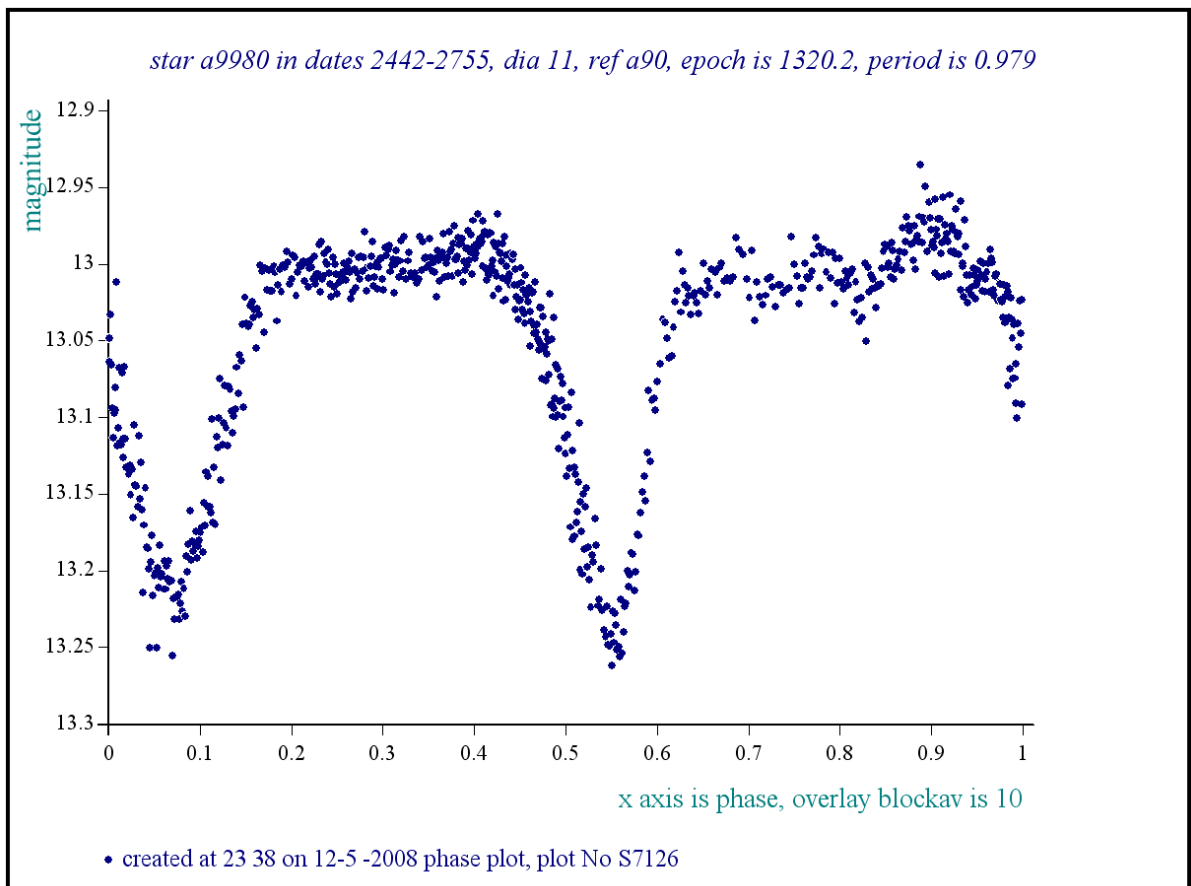
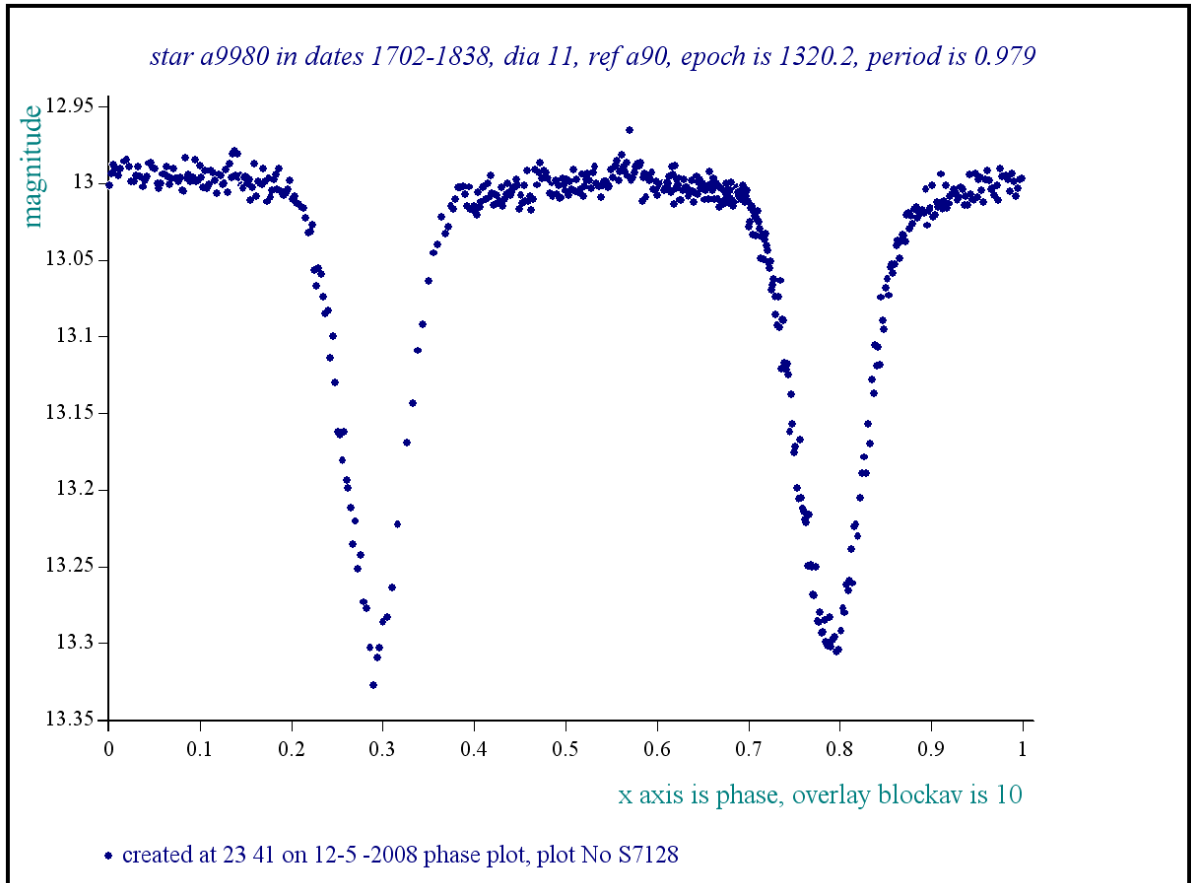
star a9980 in dates 1344-1553, dia 11, ref a1828, epoch is 1320.2, period is 0.979



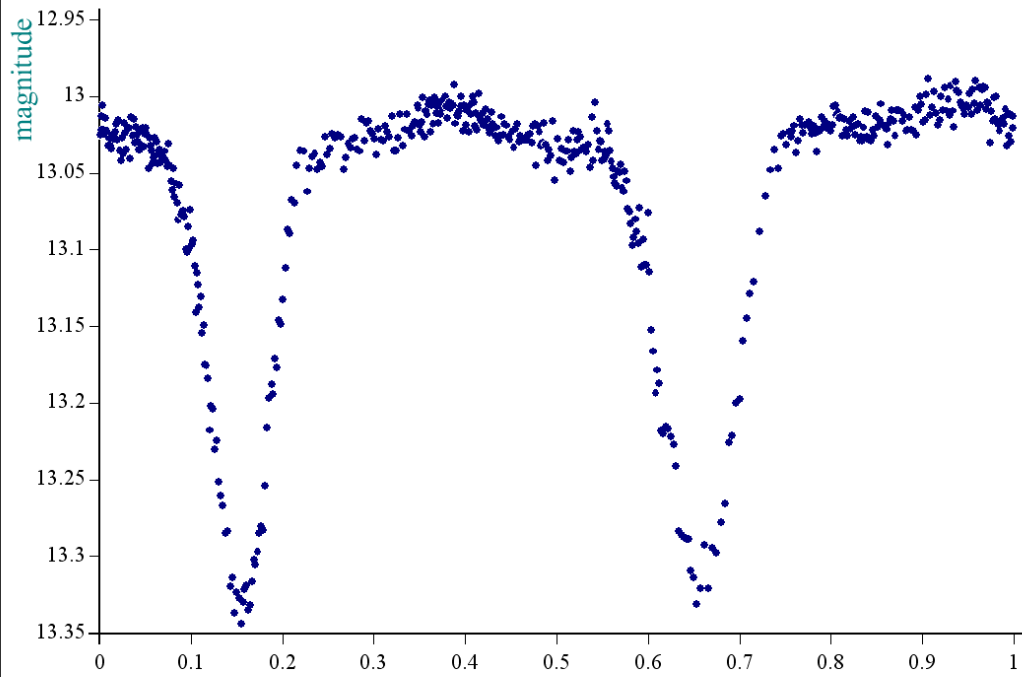
x axis is phase, overlay blockav is 10

• created at 23 30 on 12-5-2008 phase plot, plot No S7119





star a9980 in dates 2772-2903, dia 11, ref a90, epoch is 1320.2, period is 0.979



x axis is phase, overlay blockav is 10

• created at 23 36 on 12-5 -2008 phase plot, plot No S7125

