

variable and brighter stars	
.....	O 16783 v
..... n	a 68
..... f h	b 78
· b · e ·	c 1600
· a ·	d 1652
..... c	e 1674
.....	f 1907
..... O	g 2174
.....	h 2455
..... l g	i 2511
.....	j 2712
..... i	k 3202
..... d	l 4337
..... j	m 4931
..... k	n 7171

.....	O 16783 v
a	a 1600
..... m	b 4337
..... l j	c 8099
.....	d 11384
e	e 12698
..... c	f 16260
..... O	g 19862
· i ·	h 20429
.....	i 24792
· f h ·	j 27983
..... b k	k 28819
.....	l 28953
· d ·	m 32284
..... n	n 34072

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 a16783

SWid: a16783 / **USNO id: 0 0 / other id: 1350-13655643**

Co-ordinates, x,y in image z1051: 3204.1 2180.5

J2000 sky co-ordinates: 21 12 49.77 +46 34 26.76

CMC r'magnitude and 2MASS J, H, K magnitudes: 0 0 0 0

USNO B1.0 magnitudes, B1, R1, B2, R2, I2: 0 0 0 0 0

Misc comments :

Highly variable, mag 14 to 17+, period about 320/330 days, does it really flare on 2882?

I doubt it, 2882 was very dim and short. Max at 1391, 1740 2703 To 73 magm 13.8, magr 4.9

Temp seemed too high at 5156 but careful check increased that to 5555!

Comparison reference star(s) co-ordinates:

a00073: 21 11 59.02 +46 47 21.81

a04337: 21 12 48.55 +46 35 37.24

colour temp estimate: 5555 K

This is a nice 'clean' star so a good s/n is seen with simple methods (single image). However we clearly run out of s/n in the 4th and 5th minima and 100 picture averages do better, the 'deep average plot below'. The range seen so far is 13.8 to 18.7 (the mag 19 values seem less reliable), based on USNO B1.0 R values for the comparison star a00073

Seems fairly regular, period about 329 days taken from 1389 to 2705

Two more years of data and new plots needed, needed , S28698 y axis error!

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)**

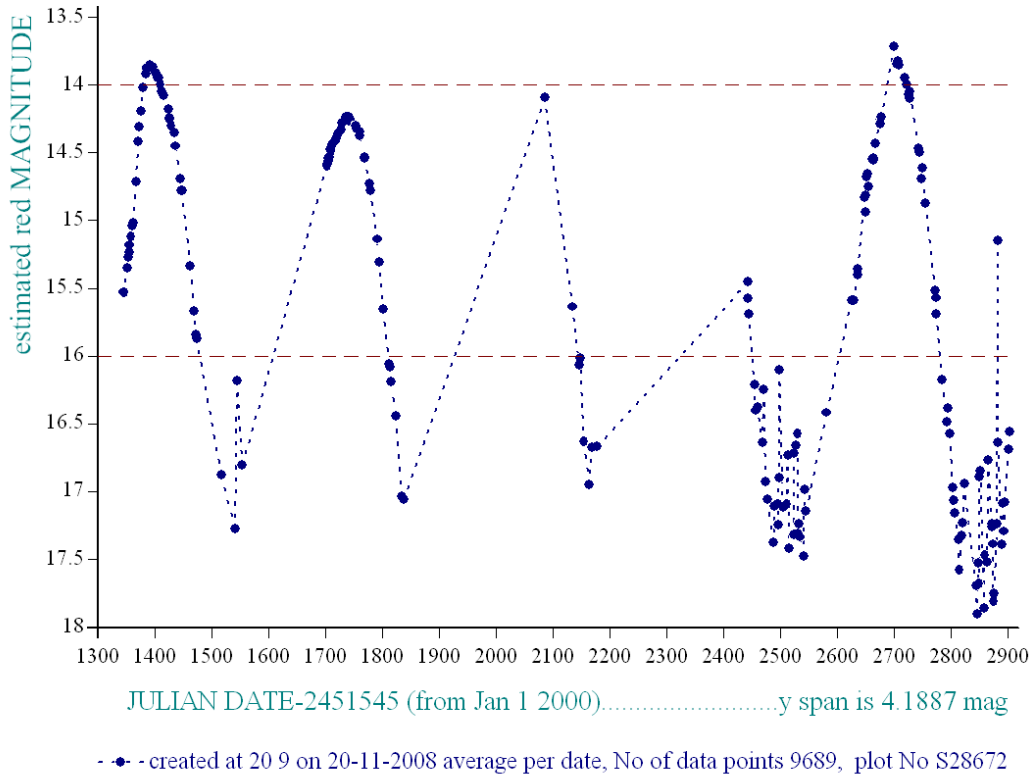
season 4: dates 2442 to 2755 is 8/9/2006 to 19/7/2007 **(w)**

season 5: dates 2772 to 2903 is 4/8/2007 to 13/12/2007 **(v)**

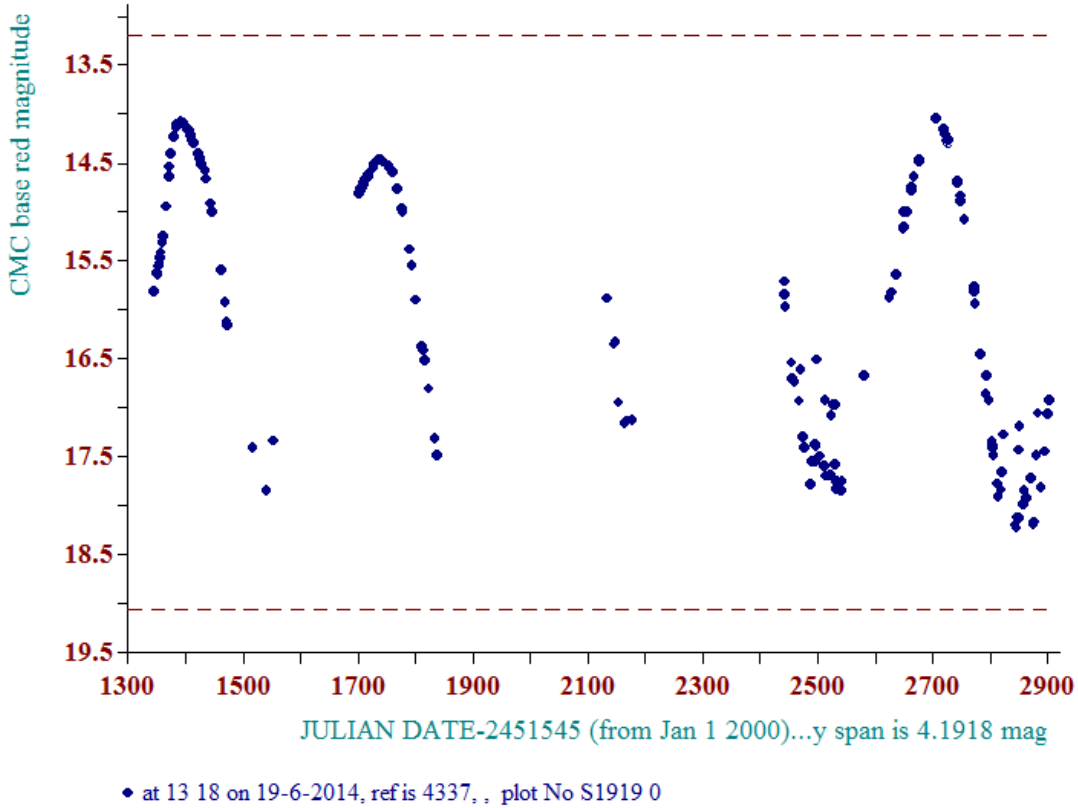
season 6: dates 2930 to 3266 is 9/1/2008 to 10/12/2008 **(u)**

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

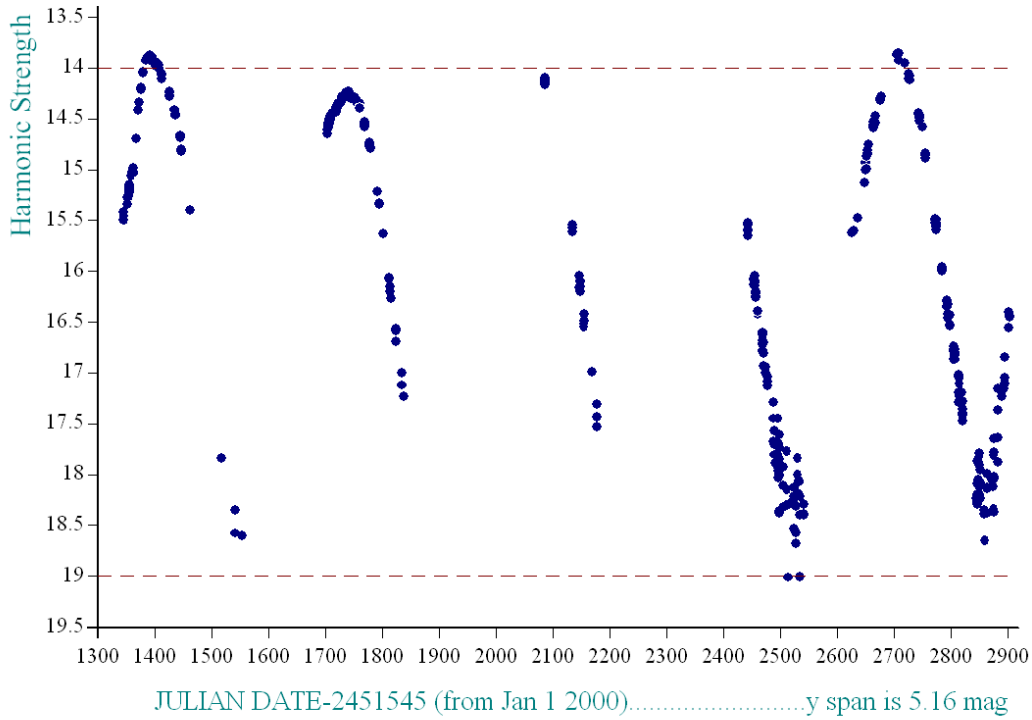
star 16783 from Autumn 2003 to Autumn 2007, dia 7.1, ref 73



star a16783 av per date plot, dia 7, ref a4337c



Deep Average Plot, star 16783 from Autumn 2003 to Autumn 2007 ref73



• created at 21 49 on 20-11-2008 °100 image stack average° plot No S28698

