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17 april 1928. (Cont from previous book)

U U Herculis 163238

Comparison * same as UY+T2 Herc.

		Comp-* dis		
14:03:20	107.0			I
	173.0	67.0		
	290.0	61.8		
	351.8	128.8	+ 1.00	
	104.7			
	173.3	68.6		
	287.8	65.2		
	353.0	133.8	+ 0.90	
				+0.87+
	13.7			
	86.3	72.6		
	198.4	66.6		
	265.0	139.2	+ 0.79	
	15.0			
	83.0	68.0		
	192.2	70.7		
14:13:20	262.9	138.7	+ 0.80	

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2

17 April 1928.

				II
14:14:40	15.3			
	83.0	67.7		
	197.4	67.5		
	264.9	135.2	+ 0.87	
	18.2			
	82.2	64.0		
	197.7	70.3		
	268.0	134.3	+0.89	
				+0.75$_5$
	101.0			
	175.3	74.3		
	285.7	69.2		
	354.5	143.5	+0.70	
	101.9			
	177.0	75.1		
	284.2	75.6		
14:24:10	359.8	150.7	+0.56	

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17 april 1928.

III

14:33:50	108.2			
	175.0	66.8		
	287.9	68.3		
	356.2	135.1	+0.87	
	107.2			
	175.6	68.4		
	287.7	67.3		
	355.0	135.7	+0.86	
				+0.80
				~~+0.81~~
	196.0			
	263.0	67.0		
	12.4	72.8		
	85.2	139.8	+0.78	
	196.6			
	266.2	69.6		
	11.8	74.4		
14:22:15	86.2	144.0	+0.69	

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17 april 1928.

14:53:15	192.4			IV
	267.9	75.5		
	9.1	77.9		
	87.0	153.4	+0.51	
	197.6			
	263.9	66.3		
	13.0	70.7		
	83.7	137.0	+0.83	
				+0.77
	285.9			
	353.8	67.9		
	108.4	66.6		
	175.0	134.5	+0.89	
	292.2			
	355.3	63.1		
	106.0	73.8		
15:04:40	179.8	136.9	+0.84	

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17 April 1928.

15:13:30	292.0			V
	355.7	63.7		
	101.6	78.6		
	180.2	142.3	+0.73	
	287.0			
	354.8	77.8		
	103.8	72.5		
	176.3	150.3	+0.57	
				+0.65-
	9.3			
	86.2	76.9		
	191.8	73.4		
	265.2	150.3	+0.57	
	12.2			
	86.5	74.3		
	195.0	68.2		
15:24:00	263.2	142.5	+0.72	

Sleefy.

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6

17 april 1928

15:31:20	17.3			VI
	85.0	67.7		
	191.0	76.2		
	267.2	143.9	+0.70	
	15.0			
	83.3	68.3		
	194.6	69.8		
	264.4	138.1	+0.81	
				+0.73
	106.0			
	175.3	69.3		
	282.6	71.7		
	354.3	141.0	+0.75	
	104.4			
	179.0	74.6		
	284.7	71.1		
15:40:15	355.8	145.7	+0.66	

Got so sleepy this time

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17 april 1928
U Y Herculis 162938

B - VI

15:55:40	279.0		
	363.7	84.7	
	95.8	91.2	
	187.0	175.9	+0.08
	280.0		
	361.0	81.0	
	99.0	82.1	
	181.1	163.1	+0.32
			+0.16 +
	189.6		
	272.9	83.3	
	~~356~~ 7.7	86.1	
	93.8	169.4	+0.20
	188.5		
	274.3	85.8	
	3.3	91.3	
16:03:10	94.6	177.1	+0.05

a little down in field not only little.

4:10 Watch (m 30s fast.

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8

E.S.T. referred to Greenwich. Uncorrected for watch error.

Thursday 19 April 1928

RY Bootis 144523. Phot. T.

12" Polar

L.E.C. Obs.
L.E.C. Rec.

Comp. * = (1855) $14^h 44^s.3$; $+23°35'$ -

Comparison * dis.

~~PA = 30° E. Separation = 3.0~~

8:04:10	282.7			
	373.3	90.6		I
	100.1	94.9		
	195.0	185.5	-0.10	
		174.5		
	278.6			
	381.0	102.4		
	96.9	100.3		
13:10:35	197.2	202.7	-0.43	
+ :35		157.3		
13:11:10				-0.316
	9.0			
	109.2	100.2		
	186.0	104.0		
	290.0	204.2	-0.46	
		155.8		
	13.2			
	106.9	93.7		
	188.7	100.2		
8:17:00	288.9	193.9	-0.26	
		166.1		

242

Watch $0^m 35^s$ slow at 7:45 P.M.
P.A. read from north point with pin over slot.
Separation is read on dial; greatest possible reading (due to slack) taken.

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19 april 1928.

8:17:40	8.9			
	107.2	98.3		II
	193.0	94.2		
	287.2	192.5	−0.24	
		167.5		
	8.3			
	110.4	102.1		
	187.6	100.6		
13:24:05	288.2	202.7	−0.43	
35		157.3		−0.332
13:24:40				−0.33+
	97.9			
	200.7	102.8		
	275.9	102.1		
	378.0	204.9	−0,48	
		155.1		
	99.8			
	197.0	97.2		
	289.6	92.4		
8:30:30	375.0	189.6	−0.18	
		170.4		

High wind, poor seeing, shred cons, and low angle make comparisons show but not more difficult. Sky clear but something below Cassiopeia. Is it Aurora?

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19 April 1928

8:40:40	96.3			
	194.9	98.6		III
	284.7	89.3		
	374.0	187.9	−0.15	
		172.1		
	96.3			
	204.2	107.9		
	275.9	106.1		
13:46:50	382.0	214.0	−0.65	
35		146.0		−0.410
13:47:25				−0.41-
	187.0			
	291.2	104.2		
	7.2	99.4		
	166.6	203.6	−0.45	
		156.4		
	189.3			
	289.2	99.9		
	7.3	100.3		
8:53:00	107.6	200.2	−0.38	
		159.8		

Sky clear. Some trouble with images – this group will probably be discordant.

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19 April 1928

9:13:10	189.1			IV
	286.2	97.1		
	13.3	89.9		
	103.2	187.0	−0.13	
		173.0		
	184.9			
	287.0	102.1		
	8.2	98.6		
14:18:25	106.8	200.7	−0.39	
35		159.3		−0.336
14:19:00				−0.33+
	281.9			
	380.9	99.0		
	92.4	104.8		
	197.2	203.8	−0.45	
		156.2		
	277.9			
	380.7	102.8		
	101.2	96.2		
9:23:40	197.4	199.0	−0.36	
		161.0		

Before groups it was seen that stuff in north was arcuate, as there were well defined streams. Something in south after groups: Sky dew. Auroral arch very bright now.

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19 April 1928.

9:35:40	280.2			V
	373.5	93.3		
	97.7	97.5		
	195.2	190.8	-0.20	
		169.2		
	280.3			
	381.0	100.7		
	96.0	105.1		
14:40:20	201.1	205.8	-0.49	
35		154.2		-0.291
14:40:55				-0.29
	10.0			
	108.1	98.1		
	189.0	98.5		
	287.5	196.6	-0.32	
		163.4		
	12.2			
	105.0	92.8		
	191.0	95.1		
9:45:00	286.1	187.9	-0.15	
		172.1		

Sky rather bright but apparently clear.
Feel very confident of this group.

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19 april 1928.
U U Herculis. Phot. T.

Comp. * (1855) $16^h 30^m.3$, $+38° 05'$

	Comp. *	dis	P.A. = 57° W. Separation = 2.2	
12:38:30	292.4			
	367.7	75.3		I
	109.1	75.5	+0.56	
	184.6	150.8		
	296.9			
	364.4	67.5		
	114.2	68.1	+0.86	
	182.3	135.6		
				+0.84
	26.8			
	90.0	63.2		
	209.3	59.7	+1.13	
	269.0	122.9		
	20.8			
	90.6	69.8		
	204.7	68.5	+0.81	
12:52:50	273.2	138.3		

Very difficult, probably due to poor images. Seeing very bad. A few small drifting clouds but thick mist passed over this region. Focus shortened after this group.

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19 april 1928

12:56:40	17.1			
	93.9	76.8		|||
	201.8	75.2		
	277.0	152.6	+0.54	
	27.1			
	90.8	63.7		
	205.2	67.1		
	272.3	130.8	+0.96	
				+0.70
	110.0			
	182.5	72.5		
	297.3	69.3		
	366.6	141.8	+0.74	
	107.7			
	187.8	80.1		
	293.3	70.8		
13:10:20	364.1	150.9	+0.56	

Some difficulty this time. Clear

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1928phae.proj..666C

19 april 1928

13:12:40	114.0			III
	186.3	72.3		
	293.4	71.0		
	364.4	143.3	+0.71	
	114.0			
	182.2	68.2		
	297.3	66.7		
	364.0	134.9	+0.88	
				+0.79
	204.9			
	273.8	68.9		
	24.4	69.0		
	93.6	137.9	+0.82	
	203.0			
	274.0	71.0		
	19.0	70.0		
13:25:20	89.0	141.0	+0.75	

Difficult, probably due to very poor seeing. Clear.

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19 April 1928

13:47:00	201.6			IV
	272.3	70.7		
	22.0	73.2		
	95.2	143.9	+0.70	
	204.0			
	276.6	72.6		
	23.0	68.8		
	91.8	141.4	+0.75	
				+0.58+
	294.9			
	370.0	75.1		
	106.1	80.1		
	186.2	155.2	+0.47	
	291.0			
	367.2	76.2		
	111.7	82.2		
13:58:30	193.9	158.4	+0.41	

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19 April 1928.

14:00:00	290.0			V
	363.9	73.9		
	111.4	79.6	+0.51	
	191.0	153.5		
	297.1			
	367.3	70.2		
	107.3	78.8		
	186.1	149.0	+0.59	
				+0.65+
	27.0			
	91.2	64.2		
	201.5	75.6		
	277.1	139.8	+0.78	
	23.2			
	91.2	68.0		
	202.1	74.0		
14:08:50	276.7	142.0	+0.73	

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19 april 1928.

14:23:50	19.0			
	94.3	75.3		
	202.3	73.7		
	276.0	149.0	+0.59	
	92.6			
	93.1	70.5		
	202.0	74.0		
	276.0	144.5	+0.68	
				+0.64+
	113.0			
	183.4	70.4		
	294.6	70.5		
	365.1	140.9	+0.76	
	168.3			
	185.0	76.7		
	291.0	74.9		
14:33:10	365.9	151.6	+0.54	

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19 april 1928.

14:33:30	106.4			VII
	186.3	79.9		
	297.0	68.3		
	365.3	148.2	+0.61	
	112.7			
	184.0	71.3		
	297.7	70.3		
	368.0	141.6	+0.74	
				+0.69 -
	199.1			
	273.2	~~74~~ 1		
	25.0	68.1		
	93.1	142.2	+0.73	
	203.6			
	276.9	73.3		
	19.0	72.0		
14:43:50	91.0	145.3	+0.67	

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19 april 1928

14:55:W	205.0			
	279.0	74.0		VIII
	19.7	71.3		
	90.9	145.3	+0.67	
	201.0			
	274.0	73.0		
	21.0	72.3		
	93.3	145.3	+0.67	
				+0.73+
	297.2			
	363.8	66.6		
	113.6	69.6		
	183.2	136.2	+0.65	
	295.0			
	365.3	70.3		
	111.8	71.2		
15:06:20	183.0	141.5	+0.74	

There has been drifting cloud in the region, but I have been very careful. Quite cloudy with light "fog" clouds.

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19 april 1928

15:28:10	115.6			~~1~~ X
	187.0	71.4		
	295.0	72.3		
	367.3	143.7	+0.70	
	115.0			
	182.0	67.0		
	296.9	66.9		
	363.8	133.9	+0.90	
				+0.74-
	204.0			
	273.0	69.0		
	21.0	71.8		
	92.8	140.8	+0.76	
	203.0			
	276.0	73.0		
	21.0	76.0		
15:42:00	97.0	149.0	+0.59	

Very cloudy. Stars unreliable.

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19 April 1928.

15:43:50	198.4		
	276.8	78.4	
	21.2	75.8	
	97.0	154.2	+0.49
			+0.68
	205.0		
	276.0	71.0	
	27.1	65.0	
	92.1	136.0	+0.86
	294.2		
16:01:20	Impossible to continue because of heavy clouds are down.		

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E.S.T. referred to noon; uncorrected for watch error

Friday 20 April 1928

SY Ursae Majoris 094950 12" Polar Phot. T.

Comp. * = (1855) $9^h 49^m.2$; $+50°.8$ L.E.C. ous Ref

Variable dis. P.A* = 30° E Separation = 7,2

7:59:40	19.2			
	84.8	65.6		I
	197.2	69.0		
	266.2	134.6	− 0.88	
	23.3			
	81.0	57.7		
	200.6	62.4		
	263.0	120.1	− 1.19	
				− 1.28 −
	115.8			
	166.6	50.8		
	294.6	51.1		
	345.7	101.9	− 1.61	
	115.0			
	169.1	54.1		
	294.8	55.7		
8:10:45	350.2	109.5	− 1.43	

* Cromfort on photometer coinciding with index on rotating tailpiece.

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20 April 1928.

8:23:00	113.4			II
	167.0	53.6		
	297.0	52.8		
	349.8	106.4	- 1.50	
	117.0			
	165.2	48.2		
	299.0	47.7		
	346.7	95.9	- 1.76	
				- 1.32$_5$
	203.2			
	262.0	58.8		
	20.1	65.4		
	85.5	124.2	- 1.40	
	196.4			
	261.2	64.8		
	17.9	67.2		
8:34:50	85.1	132.0	- 0.94	

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20 April 1928.

9:02:15	194.0			III
	271.3	77.3		
	17.4	70.6		
	88.0	147.9	- 0.62	
	201.6			
	257.0	55.4		
	18.7	63.7		
	82.4	119.1	- 1.21	
				- 1.30+
	297.1			
	348.2	51.1		
	117.2 ~~165.7~~	48.0		
	165.2	99.1	- 1.68	
	297.x			
	347.9	50.5		
	115.3	47.5		
9:18:50	163.2	98.4	- 1.70	

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20 april 1928.

10;03;00	291.0			IV
	352.3	61.3		
	114,8	50.8		
	165.6	112.1	- 1.37	
298.2	~~165.6~~			
	349.0	50.8		
	116.9	52.2		
	169.1	103.0	- 1.58	
				-1.245
	22.6			
	82.1	59.5		
	147.2	65.9		
	243.1	125.4	- 1.08	
	15.6			
	85.9	70.3		
	148.1	60.9		
10;16;00	259.0	131.2	- 0.95	

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1928phae.proj..666C

20 April 1928

RY Bootis 144523

P.A. 32°W Separation = 3.3

13:30	Much too cloudy to continue, and little hope for clearing.			
13:31:30	287.8	Compare star dis.		I
	382.8	95.0		
	110.0	94.7	-0.18	
	204.7	189.7		
		170.3		
	286.1			
	390.3	104.2		
	107.4	103.0		
	210.4	207.2	-0.52	
		152.8		
				-0.49-
	18.0			
	122.8	104.8		
	192.0	110.5		
	302.5	215.3	-0.68	
		144.7		
	19.0			
	121.9	102.9		
	193.4	106.8		
13:40:50	300.2	209.7	-0.57	
		150.3		

Images accidentally found to be well minded - Sky shows drifting haze banks in this region.

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1928phae.proj..666C

20 April 1928.

13:48:40	19.8			
	120.0	100.2		II
	195.2	100.2		
	295.4	200.4	−0.39	
		159.6		
	23.0			
	120.0	97.0		
	198.0	101.0		
	299.0	198.0	−0.34	
		162.0		
				−0.375
	207.2			
	285.8	107.0		
	32.8	97.9		
	109.3	204.9	−0.48	
		155.1		
	287.8			
	385.7	97.9		
	109.0	97.5		
14:01:50	206.5	195.4	−0.29	
		164.6		

Conditions of sky unchanged.

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1928phae.proj...0000

20 April 1928.

14:08:10	292.0			III
	389.6	97.6		
	108.9	98.0		
	206.9	195.6	−0.30	
		184.4		
	288.0			
	390.2	102.2		
	108.3	102.6		
	210.9	204.8	−0.47	
		155.2		
				−0.335
	20.4			
	118.3	97.9		
	198.0	100.7		
	298.7	198.6	−0.35	
		181.4		
	21.7			
	119.3	97.6		
	200.2	93.8		
14:29:30	294.0	191.4	−0.22	
		168.6		

Conditions very unchanged.
Decidedly too cloudy to continue.

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1928phae.proj..666C

20 April 1928

14:50:10	287.3			IV
	390.2	102.9		
	107.0	100.9		
	207.9	203.8	−0.45	
		156.2		
	283.9			
	392.0	108.1		
	109.9	102.1		
	212.0	210.2	−0.58	
		149.8		
				−0,44+
	18.0			
	123.6	105.6		
	198.9	97.1		
	296.0	202.7	−0.43	
		157.3		
	17.9			
	117.8	99.9		
	200.2	96.6		
15:03:10	296.8	196.5	−0.31	
		163.5		

Sky unchanged.

Watch $0^m\,40^s$ slow at 15:25

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1928phae.proj..6660

Tuesday 24 April 1928

R Y Boötis 14 45 23

12" Polar Plot. J.

E.S.T. referred to mean. Not corrected for watch error

Comparison star = (1855) $14^h 44^m.3$ $+23°35'$ - L. E. C. Obs Per

Comp. * dis.

12:41:10	106.7			
	206.8	100.1		I
	286.0	102.0		
	388.0	202.1	-0.42	
		157.9		
	113.8			
	207.8	94.0		
	286.3	103.7		
	390.0	197.7	-0.34	
		162.3		
				-0.30+
	201.0			
	298.2	97.2		
	20.2	100.5		
	120.7	197.7	-0.34	
		162.3		
	202.0			
	294.0	92.0		
	21.1	93.9		
12:50:00	115.0	185.9	-0.11	
		174.1		

Focus shortened very slightly after this group.

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1928phae.proj..666C

24 April 1928.

12:52:00	212.1			
	310.0	97.9		II
	29.0	107.7		
	136.7	205.6	-0.49	
		154.4		
	212.2			
	316.2	104.0		
	31.0	107.0		
	138.0	211.0	-0.59	
		149.0		
				-0.42
	307.8			
	399.8	92.0		
	125.0	100.9		
	225.9	192.9	-0.24	
		167.1		
	302.2			
	404.7	102.5		
	122.4	96.6		
13:01:10	219.0	199.1	-0.36	
		160.9		

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1928phae_proj..666C

24 april 1928

				II
13:01:30	304.0			
	402.1	98.1		
	125.9	92.1		
	218.0	190.2	-0.19	
		169.8		
	301.8			
	403.8	102.0		
	120.4	99.9		
	220.3	201.9	-0.42	
		158.1		
				-0.365
	31.0			
	132.7	101.7		
	209.0	100.8		
	309.8	202.5	-0.43	
		157.5		
	32.2			
	134.4	102.2		
	214.8	99.9		
13:10:20	314.7	202.1	-0.42	
		157.9		

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1928phae.proj..666C

24 April 1928.

13:30:30	28.3			IV
	134.6	106.3		
	210.2	105.8		
	316.0	212.1	-0.62	
		147.9		
	32.6			
	134.6	102.0		
	207.7	102.5		
	310.2	204.5	-0.47	
		155.5		
				-0.44$_5$
	128.8			
	222.0	93.2		
	299.8	103.5		
	403.3	196.7	-0.32	
		163.3		
	122.0			
	222.3	100.3		
	303.0	98.9		
13:39:10	401.9	199.2	-0.37	
		160.8		

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1928phae.proj..666C

24 april 1928

13:39:40	123.9			V
	221.2	97.3		
	302.1	99.7		
	401.8	194.6	-0.32	
		168.0		
	130.6			
	221.2	90.6		
	306.6	93.2		
	399.8	183.8	-0.07	
		176.2		
				-0.30-
	213.7			
	307.9	94.2		
	34.2	96.9		
	131.1	191.1	-0.21	
		168.9		
	209.9			
	317.0	107.1		
	30.6	103.5		
13:49:50	134.1	210.6	-0.59	
		149.7		

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1928phae.proj..666C

24 April 1928

U U Herculis 163238

Comparison star: (1855) $16^h 30^m.3$ $+38°05'$

P.A = 119 W Separation = 2.8

	Conf. * dis			
14 i 11 i 20	312.8			
	394.3	81.5		I
	135.0	77.2		
	212.2	158.7	+0.41	
	317.9			
	391.1	73.2		
	137.9	70.7		
	208.6	143.9	+0.70	
				+0.44
	46.6			
	124.6	78.0		
	226.8	89.1		
	307.9	159.1	+0.40	
	42.0			
	126.9	84.9		
	223.6	82.7		
14 i 22 i 00	306.3	167.6	+0.24	

Focus shortened very little after this group.

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1928phae.proj..666C

24 april 1928

14:32:00				
~~14:25:40~~	83.7			II
	169.0	85.3		
	265.9	81.9		
	347.8	167.2	+ 0.24	
	84.0			
	165.9	81.9		
	261.7	80.0		
	341.7	161.9	+ 0.34	
				+ 0.39$_5$
	178.0			
	254.0	76.0		
	355.3	73.1		
	428.4	149.1	+ 0.59	
	176.6			
	257.2	80.6		
	354.0	78.0		
14:43:20	432.0	158.6	+ 0.41	

Focus lengthened slightly after this group.

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1928phae.proj..666C

24 april 1928

14:45:40	177.8			II
	256.7	78.9		
	353.0	81.8		
	434.8	160.7	+ 0.37	
	184.0			
	255.0	71.0		
	-2.7	72.9		
	70.2	143.9	+ 0.70	
				+ 0.41
	265.0			
	347.0	82.0		
	84.0	82.3		
	166.3	164.3	+ 0.30	
	265.6			
	345.9	80.3		
	81.4	85.2		
14:54:50	166.6	165.5	+ 0.27	

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1928phae.proj..666C

24 april 1928

				IV
15:12:30	260.5			
	345.2	84.7		
	79.6	89.2		
	168.8	173.9	+0.11	
	263.0			
	347.0	84.0		
	83.6	85.2		
	168.8	169.2	+0.20	
				+0.33
	-3.6			
	69.0	72.6		
	179.3	71.8		
	251.1	144.4	+0.69	
	-9.0			
	74.0	83.0		
	175.8	80.8		
15:23:40	256.6	163.8	+0.31	

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1928phae.proj..666C

24 april 1928.

15:24:40	-7.0			V
	74.0	81.0		
	173.4	86.8		
	260.2	167.8	+0.23	
	-2.3			
	70.2	72.5		
	177.9	74.2		
	252.1	146.7	+0.64	
				+0.42+
	85.1			
	164.9	79.8		
	267.0	77.1		
	344.1	156.9	+0.44	
	84.8			
	166.3	81.5		
	263.9	78.3		
15:35:10	342.2	159.8	+0.38	

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1928phae.proj..666C

24 April 1928

U Y Herculis 162938

Same comparison stars as U U Herculis

	Conf. * dis	P. A. = 145° E. Separation = 6.9		
15:41:30	255.6			
	351.0	95.4		I
	80.0	90.1		
	170.1	185.5	−0.10	
		174.6		
	266.3			
	350.2	83.9		
	84.8	81.0		
	165.8	164.9	+0.29	
				+0.18
	5.8			
	75.3	81.1		
	173.3	82.4		
	255.7	163.5	+0.31	
	−4.0			
	81.0	85.0		
	173.4	83.6		
15:51:10	257.0	168.6	+0.22	

Seeing very troublesome in this group

Watch $0^m 52^s$ part at 4:11

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1928phae.proj..666C

Wednesday 25 april 1928.
R Y Boötis 144523

12" Polar Phot. J.

L.E.C. Ms Rec

	Comparison	dis.		
12:12:40	27.9			
	118.8	90.9		I
	208.2	92.2		
	300.4	183.1	−0.06	
		176.9		
	26.9			
	123.1	96.2		
	208.9	96.1		
	305.0	192.3	−0.23	
		167.7		
				−0.28₅
	111.7			
	214.8	103.1		
	293.0	102.4		
	395.4	205.5	−0.49	
		154.5		
	111.9			
	213.9	102.0		
	297.9	97.0		
12:24:30	394.9	199.0	−0.36	
		161.0		

Clear in this region

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1928phae.proj..666C

25 April 1928

12:27:30	112.0			
	215.5	103.5		II
	295.9	99.8		
	395.7	203.3	−0.44	
		156.7		
	112.7			
	215.0	102.3		
	291.7	103.3		
	395.0	205.6	−0.49	
		154.4		
				−0.39+
	203.2			
	304.9	101.7		
	26.5	97.2		
	123.7	198.9	−0.36	
		161.1		
	205.0			
	301.9	96.9		
	25.6	97.8		
12:35:00	123.4	194.7	−0.28	
		165.3		

Clear in this region

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1928phae.proj..666C

25 April 1928

12:36:20	202.0			II
	304.3	102.3		
	28.1	92.0		
	120.1	194.3	-0.27	
		165.7		
	206.0			
	302.0	96.0		
	29.0	93.3		
	122.3	189.3	-0.17	
		170.7		
				-0.29
	301.8			
	393.3	91.5		
	114.0	99.7		
	213.7	191.2	-0.21	
		168.8		
	291.8			
	397.2	105.4		
	114.6	101.4		
12:45:30	216.0	206.8	-0.51	
		153.2		

See next page footnote.
Clear in this region

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1928phae.proj..666C

25 april 1928.

13:03:10	292.8			IV
	395.4	102.6		
	114.0	100.7		
	214.7	203.3	−0.44	
		156.7		
	293.8			
	399.8	106.0		
	111.0	103.3		
	214.3	209.3	−0.56	
		150.7		
				−0.42+
	28.0			
	122.8	94.8		
	204.1	100.7		
	304.8	195.5	−0.39	
		164.5		
	24.1			
	122.3	98.2		
	203.3	102.8		
13:11:00	306.1	201.0	−0.40	
		159.0		

12:40:00 Thought I saw very bright meteor going northward low down. Skipped out of camera range.

Clear in this region. Clouds almost covering it at end.

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1928phae.proj..666C

25 april 1928.

13:34:30	23.8			
	122.6	98.8		
	208.6	94.4		II
	303.0	193.2	-0.25	
		166.8		
	27.1			
	125.8	98.7		
	201.3	98.4		
	299.7	197.1	-0.32	
		162.9		
				-0.34
	112.0			
	214.6	102.6		
	300.1	92.7		
	392.8	195.3	-0.29	
		164.7		
	109.7			
	216.0	106.3		
	295.2	99.7		
13:42:50	394.9	206.0	-0.50	
		154.0		

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1928phae.proj..666C

25 april 1928.

13:43:10	115.0			VI
	214.6	99.6		
	293.3	101.7		
	395.0	201.3	−0.41	
		158.7		
	113.7			
	212.2	98.5		
	296.8	96.4		
	393.2	194.9	−0.28	
		165.1		
				−0.335
	205.0			
	298.2	93.2		
	26.9	98.9		
	125.8	192.1	−0.23	
		167.9		
	203.1			
	306.8	103.7		
	29.3	98.1		
13:51:30	127.4	201.8	−0.42	
		158.2		

Clear in this region

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1928phae.proj..666C

25 april 1928

14:04:00	203.0			
	301.7	98.7		
	28.7	90.5		VII
	119.2	189.2	-0.17	
		170.8		
	205.8			
	300.2	94.4		
	26.1	94.6		
	120.7	189.0	-0.17	
		170.0		
				-0.33+
	291.3			
	397.1	105.8		
	113.9	94.9		
	208.8	200.7	-0.39.	
		159.3		
	290.8			
	396.9	106.1		
	111.8	105.2		
14;14;W	217.0	211.3	-0.60	
		148.7		

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1928phae.proj..666C

25 april 1928
UV Herculis 163238

	Comp. * dis.			
14:32:00	116.9			I
	210.9	94.0		
	299.0	91.2		
	390.2	185.2	−0.10	
		174.8		
	122.0			
	205.6	83.6		
	306.3	77.9		
	384.2	161.5	+0.35	
				+0.25
	217.2			
	294.0	76.8		
	34.2	76.8		
	111.0	153.6	+0.50	
	213.9			
	298.1	84.2		
	33.0	81.8		
14:43:10.	114.8	166.0	+0.27	

Somewhat cloudy. Glass very faint.

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1928phae.proj..666C

25 april 1928

14:45:00	212.2			
	295.3	83.1		II
	29.8	85.2		
	115.0	168.3	+0.22	
	219.4			
	291.7	72.3		
	39.4	72.8		
	112.2	145.1	+0.67	
				+0.315
	302.3			
	383.2	80.9		
	123.9	82.3		
	206.2	163.2	+0.32	
	301.0			
	389.7	88.7		
	122.0	88.8		
14:54:50	210.8	177.5	+0.05	

Cloudy: Images much too faint for ready comparison.

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1928phae..proj..666C

25 april 1928

15:06:00	299.0			
	389.8	90.8		III
	122.2	83.8		
	206.0	174.6	+0.10	
	305.1			
	384.0	78.9		
	126.0	77.7		
	203.7	156.6	+0.45	
				+0.43
	39.3			
	108.8	69.5		
	220.3	68.7		
15:25:00	289.0	138.2	+0.81	
	34.0			
	113.2	79.2		
	214.2	82.0		
15:27:30	296.2	161.2	+0.36	

Troubled by clouds and interrupted once.
Impossible to continue.

Watch 1[m] 15[s] fast at 3:40

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1928phae.proj..666C

E.S.T. Differential tower uncorrected for watch error

Wednesday 2 May 1928.
RY Booth's 1445 23.

12" Polar Plot I.

L. E. C. Fus Sm

	Comp. * dis		
10:50:00	240.7		
	338.1	97.4	
11:50:00 EDST	64.1	91.8	
	155.9	189.2	−0.17
		170.8	
	246.9		
	342.8	95.9	
	67.0	96.8	
	163.8	192.7	−0.24
		167.3	
			−0.33$_5$
	332.9		
	434.2	101.3	
	151.0	103.0	
	254.0	204.3	−0.46
		155.7	
	331.4		
	434.9	103.5	
	153.4	100.9	
10:58:10	254.3	204.4	−0.47
		155.6	

Fours shortened slightly after this group.

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1999phac.proj.0666

2 March 1928

10:59:20	344.0			□
	443.9	99.9		
	165.0	97.0		
	262.0	196.9	−0.32	
		163.1		
	342.3			
	445.3	103.0		
	161.9	101.0		
	262.9	204.0	−0.46	
		156.0		
				−0.33−
	74.6			
	168.0	93.4		
	254.3	97.5		
	351.8	190.9	−0.20	
		169.1		
	74.2			
	171.0	96.8		
	251.6	100.6		
11:08:30	352.2	197.4	−0.33	
		162.6		

Focus again shortened very slightly.

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1928phae.proj..666C

2 May 1928.

11:10:10	85.8		
	182.0	96.2	
	264.9	98.5	
	363.4	194.7	-0.28
		165.3	
	82.7		
	184.8	102.1	
	262.8	97.4	
	360.2	199.5	-0.37
		160.6	
			-0.37
	174.0		
	273.3	99.3	
	351.3	101.8	
	453.1	201.1	-0.40
		158.9	
	170.0		
	272.0	102.0	
	351.8	100.8	
11:20:10	452.4	202.8	-0.43
		157.2	

Very bright moonlight but sky apparently clear.

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1928phae.proj..666C

2 June 1928

11:41:30	170.0			IV
	275.8	105.8		
	− 9.2	102.1		
	92.9	207.9	−0.53	
		152.1		
	171.1			
	272.0	100.9		
	−5.9	97.6		
	91.7	198.5	−0.35	
		161.5		
				−0.41−
	258.6			
	364.0	105.4		
	84.9	99.1		
	184.0	204.5	−0.47	
		155.5		
	~~263.9~~			
	~~362.2~~			
	~~84.0~~			
11:50:10	~~183.6~~	Images not measured.	−0.28	
11:52:10	265.0			
	363.8	98.8		
	84.1	96.0		
11:54:20	180.1	194.8	Some moonlight in some lower	
		165.2		

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1928phae.proj..666C

2 May 1928

12:02:20	262.0			
	363.8	101.8		
	85.0	99.0		
	184.0	200.8	-0.40	
		159.2		
	265.2			
	362.2	97.0		
	83.3	100.9		
	184.2	197.9	-0.34	
		162.1		
				-0.37
	354.3			
	453.2	98.9		
	174.0	102.3		
	276.3	201.2	-0.40	
		158.8		
	-7.1			
	94.0	101.1		
	173.0	96.8		
12:12:00	269.8	197.9	-0.34	
		162.1		

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1928phae.proj..666C

2 May 1928

12:12:40	+9.2			VI
	105.8	96.6		
	189.2	95.2		
	284.4	191.8	-0.22	
		168.2		
	5.9			
	108.6	102.7		
	187.4	98.0		
	285.4	200.7	-0.39	
		159.3		
				-0.36
	95.2			
	195.0	99.8		
	273.2	104.0		
	377.2	203.8	-0.45	
		156.2		
	97.0			
	194.0	97.0		
	274.0	103.2		
12:20:40	377.2	200.2	-0.38	
		159.8		

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1928phae.proj..666C

2 Aug 1928

12:21:20	93.8			
	197.6	103.8		VII
	273.2	102.8		
	376.0	206.6	-0.51	
		153.4		
	98.1			
	198.2	100.1		
	275.4	98.7		
	374.1	198.8	-0.36	
		161.2		
				-0.39+
	186.9			
	283.9	97.0		
	7.2	95.6		
	102.8	192.6	-0.24	
		167.4		
	185.0			
	287.9	102.9		
	5.7	101.3		
12:29:50	107.0	204.2	-0.46	
		155.8		

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1928phae.proj..666C

2 May 1928

13:35:40	184.3			
	285.1	100.8		VIII
	7.0	102.9		
	109.9	203.7	-0.45	
		156.3		
	186.3			
	284.9	98.6		
	4.0	105.8		
	109.8	204.4	-0.47	
		155.6		
				-0.43
	277.4			
	377.2	99.8		
	99.3	99.2		
	196.5	199.0	-0.32	
		163.0		
	276.7			
	376.8	100.1		
	93.7	104.8		
13:44:00	198.5	204.9	-0.48	
		155.1		

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1928phae.proj..666C

2 May 1928

13:44:40	276.4			
	375.0	98.6		IX
	96.9	102.2		
	199.1	200.8	-0.40	
		159.2		
	273.0			
	377.1	104.1		
	94.9	102.0		
	196.9	206.1	-0.50	
		153.9		
				-0.34
	8.4			
	103.4	95.0		
	184.2	98.6		
	282.8	193.6	-0.26	
		166.4		
	6.3			
	105.2	98.9		
	184.9	98.0		
13:51:20	282.9	196.9	-0.32	
		163.1		

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1928phae.proj..666C

2 May 1928

13:51:40	8.1			X
	104.4	96.3		
	188.9	94.7		
	283.6	191.0	-0.21	
		169.0		
	7.2			
	102.2	95.0		
	187.8	95.2		
	283.0	190.2	-0.19	
		169.8		
				-0.345
	196.8			
	275.0	101.8		
	377.2	102.2		
	96.0	203.0	-0.44	
		157.0		
	93.5			
	195.4	101.9		
	272.7	106.3		
13:58:50	379.0	208.2	-0.54	
		151.8		

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1928phae.proj..666C

2 May 1928

U U Herculis 163238

		Comp + dis.		
14:24:40	109.1			
	181.5	72.4		
	288.4	77.6		I
	366.0	150.0	+0.58	
	112.2			
	182.0	69.8		
	290.3	72.7		
	363.0	142.5	+0.72	
				+0.14
	189.0			
	287.4	98.4		
	6.3	99.8		
	106.1	198.2	-0.35	
		161.8		
	185.2			
	286.6	101.4		
	6.1	99.4		
14:33:10	105.7	201.0	-0.40	
		159.0		

Trans lengthened slightly

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1928phae.proj..666C

2 May 1928

14:37:20	184.7			
	282.9	98.2		
	6.9	94.1		II
	101.0	192.3	-0.23	
		167.7		
	190.0			
	281.0	91.0		
	11.8	90.5		
	102.3	181.5	-0.03	
		178.5		
				+0.11
	287.2			
	363.0	75.8		
	104.8	79.5		
	184.3	155.3	+0.47	
	284.3			
	368.3	84.0		
	101.2	84.0	+0.23	
14:48:50	185.2	168.0		

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1928phae.proj..666C

2 May 1928

14:49:10	282.8		
	365.2	82.4	
	103.3	80.7	
	184.0	163.1	+0.32
	287.3		
	364.2	76.9	
	101.1	83.9	
	185.0	160.8	+0.37
			+0.11
	6.8		
	96.2	89.4	
	186.8	91.2	
	278.0	180.6	-0.01
		179.4	
	5.2		
	101.9	96.7	
	198.2	96.2	
14:57:30	284.4	192.9	-0.24
		187.1	

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1928phae.proj..666C

2 May 1928

15:13:10	4.0			IV
	100.8	96.8		
	186.2	99.7		
	285.9	196.5	-0.31	
		163.5		
	10.3			
	102.0	91.7		
	191.9	87.4		
	279.3	179.1	+0.02	
				+0.12$_5$
	104.7			
	181.8	77.1		
	286.0	78.0		
	364.0	155.1	+0.48	
	100.8			
	182.8	82.0		
	285.2	81.8	+0.31	
15:22:50	367.0	163.8		

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1928phae.proj..666C

2 May 1928

14:23:30	108.1			V
	182.6	78.5		
	285.4	84.4	+0.32	
	370.0	163.1		
	106.0			
	182.2	76.2		
	287.0	78.2	1	
	365.2	154.4	+0.49	
				+0.14
	190.0			
	281.8	91.8		
	5.1	93.3		
	98.4	185.1	-0.09	
		174.9		
	188.0			
	283.0	95.0		
	6.8	94.2		
15:31:40	101.0	189.2	-0.17	
		170.8		

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1928phae.proj..666C

2 May 1928

15:32:50	3.5			
	101.1	97.6		VI.
	188.0	97.2		
	285.2	194.8	-0.28	
		165.2		
	11.1			
	98.6	87.5		
	190.4	87.4		
	277.8	174.9	+0.09	
				↓0.14
	102.8			
	186.2	83.4		
	284.7	76.6		
	361.3	160.6	+0.38	
	102.8			
	182.8	80.0		
	287.2	80.7	+0.37	
15:40:30	367.9	160.7		

Sun not visible in field.
Watch 1m 10s fast at 4:56 E.D.S.T.

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1928phae.proj..666C

E.S.T. referred to noon uncorrected for watch error

Monday 7 May 1928.
R Y Bootis, D4523

12" Polar Plate T.

L.E.C. Dry Rec.

	Comp* dis.	
12 ~~H~~ : 50 : W	19.7	
	111.6	I
1 : 50 E.D.ST.	203.9	
	288.0	
	27.0	Variable dis. Report
	108.0	
	204.9	
	283.9	
	117.8	
	191.6	
	295.2	
	375.0	
	118.0	
	195.9	
	295.7	
12 ~~H~~ : 58 : 50	373.0	

Watch 295 Slow at 1:42 E.D.S.T.

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1928phae.proj..666C

7 May 1928.

13:01:00	113.9
	196.9
	296.0
	376.4
	117.8
	192.8
	297.5
	375.9
	206.2
	284.0
	23.0
	108.7
	204.6
	287.4
	23.0
13:09:10	109.9

II

Variable dis
pupil.

Bright moonlight but not bad in this region. Sky and images are fine.

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1928phae.proj..666C

7 May 1928.

13:11:20

203.2
287.6
23.7
103.0

III

209.2

Variable star Rysit.

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1928phae.proj..666C

7 May 1928

	Comp. *	dis.		
13:18:30	283.2			
	386.2	103.0		I
	108.3	95.7		
	204.0	198.7	-0.36	
		161.3		
	287.7			
	384.8	97.1		
	110.2	92.7		
	202.9	189.8	-0.19	
		170.2		
				-0.27
	16.1			
	113.8	97.7		
	198.5	93.4		
	291.9	191.1	-0.21	
		168.9		
	16.0			
	113.2	97.2		
	194.3	99.5		
13:26:40	293.8	196.7	-0.32	
		1633		

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1928phae.proj..666C

72

7 May 1928.

13:27:20	13.6			
	117.9	104.3		
	192.2	103.1		II
	295.3	207.4	-0.52	
		152.6		
	14.8			
	115.0	100.2		
	195.0	99.2		
	294.2	199.4	-0.37	
		160.6		
				-0.40+
	107.9			
	207.7	99.8		
	287.0	99.0		
	386.0	198.8	-0.36	
		161.2		
	107.7			
	205.6	97.9		
	283.2	101.2		
13:35:00	384.4	199.1	-0.36	
		160.9		

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1928phae.proj..666C

7 May 1928

13:35:20	103.7			
	208.3	104.6		
	284.8	101.5		III
	386.3	206.1	-0.50	
		153.9		
	109.0			
	203.4	94.4		
	285.2	98.0		
	383.2	192.4	-0.24	
		167.6		
				-0.32$_5$
	200.0			
	292.0	92.0		
	18.3	94.7		
	113.0	186.7	-0.13	
		173.3		
	193.2			
	294.2	101.0		
	14.7	101.7		
13:42:20	116.4	202.7	-0.43	
		157.3		

Irine sky

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1928phae.proj..666C

74

7 May 1928

13:44:10	191.2			
	296.6	105.4		IV
	16.5	101.6		
	118.1	207.0	-0.52	
		153.0		
	194.1			
	295.5	101.4		
	17.8	96.2		
	114.0	197.6	-0.33	
		162.4		
				-0.38+
	284.8			
	384.9	100.1		
	112.7	93.0		
	205.7	193.1	-0.25	
		166.9		
	283.0			
	384.0	101.0		
	107.0	101.4		
13:51:40	208.4	202.4	-0.43	
		157.6		

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1928phae.proj..666C

7 May 1928.

13:52:00	279.7			
	385.7	106.0		
	105.2	102.7		V
	207.9	208.7	-0.55	
		151.3		
	285.9			
	385.7	99.8		
	109.4	95.8		
	205.2	195.6	-0.30	
		164.4		
				-0.40-
	15.0			
	111.5	96.5		
	196.1	96.8		
	292.9	193.3	-0.25	
		166.7		
	14.0			
	119.4	105.4		
	195.0	100.2		
13:59:20	295.2	205.6	-0.49	
		154.4		

Very slight amount of cloud in the region on last part of last group.

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1928phae.proj..666C

7 May 1928.

14:27:10	11.6			
	115.9	104.3		VI
	195.9	99.0		
	294.9	203.3	-0.44	
		156.7		
	16.9			
	117.0	100.1		
	194.6	100.7		
	295.3	200.8	-0.40	
		159.2		
				-0.425
	106.0			
	205.9	99.9		
	285.2	97.8		
	383.0	197.7	-0.34	
		162.3		
	105.2			
	207.9	102.7		
	282.0	104.3		
14:34:30	386.3	207.0	-0.52	
		153.0		

Intermittent cloud last half.

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1928plate.proj - 0000

7 May 1928.

14:39:40	107.0			
	203.8	96.8		VII
	281.4	105.2		
	386.6	202.0	-0.42	
		158.0		
	168.9			
	208.0	99.1		
	284.1	102.7		
	386.8	201.8	-0.42	
		158.2		
				-0.29
	198.6			
	290.2	91.6		
	21.8	88.4		
	110.2	180.0	0.00	
	194.5			
	290.3	95.8		
	15.2	101.2		
14:47:30	116.4	197.0	-0.32	
		163.0		

Sky again O.K. in this region.

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1928phae.proj..666C

78

7 May 1928

14:49:00	190.0			
	298.0	108.0		
	16.1	99.7		VIII
	115.8	207.7	-0.53	
		152.3		
	196.3			
	291.3	95.0		
	18.2	95.0		
	113.2	190.0	-0.19	
		170.0		
				-0.36
	287.4			
	386.1	98.7		
	109.5	94.8		
	204.3	193.5	-0.25	
		166.5		
	286.0			
	387.9	101.9		
	104.3	102.7		
14:56:20	207.0	204.6	-0.47	
		155.4		

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1928phae.prj.. 666C

7 May 1928

14:57:00	284.2			
	385.3	101.1		
	108.0	100.9		IX
	208.9	202.0	-0.42	
		158.0		
	285.4			
	385.1	99.7		
	106.9	99.1		
	206.0	198.8	-0.36	
		161.2		
				-0.34
	19.7			
	108.7	89.0		
	198.0	95.2		
	293.2	184.2	-0.08	
		175.8		
	14.0			
	119.0	105.0		
	193.8	101.4		
15:04:20	295.2	206.4	-0.50	
		153.6		

Sky probably has been quite clear in this region. Light cloud about elsewhere.

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1928phae.proj..666C

7 May 1928.

15:06:20	14.0			
	115.0	101.0		X
	195.0	100.7		
	295.7	201.7	-0.41	
		158.3		
	17.5			
	116.7	99.2		
	196.2	99.1		
	295.3	198.3	-0.35	
		161.7		
				-0.60-
	108.1			
	206.1	98.0		
	286.0	96.8		
	382.8	194.8	-0.28	
		165.2		
	105.3			
	207.0	101.7		
	281.9	106.9		
15:13:50	388.8	208.6	-0.55	
		151.4		

Region a little low for very best results.

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1928phae.proj..666C

7 May 1928

U U Herculis 163238

	Comp. + dis			
15:20:50	294.2			
	386.0	91.8		I
	115.0	81.3		
	196.3	173.1	+0.13	
	301.1			
	376.0	74.9		
	114.8	79.3		
	194.1	154.2	+0.49	
				+0.18-
	84.0			
	109.2	85.2		
	198.3	91.0		
	289.3	176.2	+0.07	
	22.2			
	111.0	88.8		
	200.4	90.2		
15:28:W	290.6	179.0	+0.02	

Images faint; some cloud + some dawn.

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1928phae.proj..666C

7 May 1928.

15:28:40	18.2			
	113.0	94.8		II
	201.0	88.4		
	289.4	183.2	−0.06	
		176.8		
	27.9			
	108.8	80.9		
	207.1	81.4		
	288.5	162.3	+0.34	
				+0.17
	114.3			
	195.6	81.3		
	295.0	81.0		
	376.0	162.3	+0.34	
	110.0			
	198.0	88.0		
	293.1	89.1		
15:35:20	382.2	177.1	+0.05	

Images very faint; Some cloud + much dawn.
Jupiter sun in east, well up.
Watch 30^s slow at 5:06 E.S.T.

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1928phae.proj..666C

Tuesday 8 May 1928.
Sy Ursae Majoris 094950

12" Polar Plot I.
L. E. C. obs Rec.

E.S.T. referred to noon uncorrected for initial error

	Var dis		
9:33:10	255.8		
	330.2	74.4	
	75.3	74.7	
	150.0	149.1	-0.59
	259.2		
	322.9	63.7	
	78.0	68.1	
	146.1	131.8	-0.94
			-1.13-
	-5.0		
	48.8	53.8	
	176.3	50.9	
	227.2	104.7	-1.54
	-6.0		
	52.0	58.0	
	176.0	51.2	
9:42:10	227.2	109.2	-1.44

I

Watch 21^{s} slow at 10:17 E.D.S.T.
Images are very bad.
Some cloud or haze in this region

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1928phae.proj..666C

8 Aug 1928.

9:43:50	-6.3			
	52.4	58.7		
	176.0	50.0		II
	226.0	108.7	-1.45	
	-1.0			
	47.1	48.1		
	178.2	48.6		
	226.8	96.7	-1.74	
				-1.35-
	81.8			
	141.0	59.2		
	260.7	60.2		
	320.9	119.4	-1.21	
	78.3			
	143.2	64.9		
	259.7	64.7		
9:51:30	324.4	129.6	-0.99	

The hazy seems to improve images.

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1928phae.proj..666C

8 May 1928

9:59:10	79.2			
	143.0	63.8		
	256.8	68.2		III
	325.0	132.6	− 0.94	
	84.1			
	145.3	61.2		
	257.7	61.3		
	319.0	122.5	− 1.14	
				− 1.29 +
	175.9			
	225.5	49.6		
	−3.3	48.4		
	45.1	98.0	− 1.71	
	177.7			
	229.9	52.2		
	−6.8	59.5		
10:07:50	52.7	111.7	− 1.38	

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1928phae.proj..666C

8 May 1928

10:08:30	177.9			
	224.2	46.3		
	-7.2	58.6		IV
	51.4	104.9	- 1.54	
	177.4			
	225.7	48.3		
	-1.7	47.5		
	45.8	95.8	- 1.76	
				-1.31$_5$
	258.7			
	320.1	61.4		
	81.1	59.3		
	140.4	120.7	- 1.18	
	255.0			
	325.7	70.7		
	75.4	69.1		
10:16:30	144.5	139.8	- 0.78	

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1928phae.prj..666C

8 May 1928

10:16:50	257.1			
	324.8	67.7		
	76.7	70.3		V
	147.0	138.0	- 0.81	
	261.9			
	318.9	57.0		
	80.3	61.7		
	142.0	118.7	- 1.22	
				- 1.30$_5$
	-2.5			
	44.0	46.5		
	181.0	44.2		
	225.2	90.7	- 1.90	
	-8.3			
	51.0	59.3		
	174.7	56.1		
10:23:50	230.8	115.4	- 1.29	

Some haze not quite uniform

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1928phae.proj..666C

88

8 May 1928

RY Bootis 144523

	Comp *	dis		
10:40:30	153.2			
	248.0	94.8		
	334.0	95.9		I
	429.9	190.7	-0.20	
		169.3		
	153.3			
	249.0	95.7		
	336.0	95.3		
	431.3	191.0	-0.21	
		169.0		
				-0.30+
	244.3			
	339.8	95.5		
	64.1	95.9		
	160.0	191.4	-0.22	
		168.6		
	238.1			
	344.9	106.8		
	61.3	103.7		
10:47:40	165.0	210.5	-0.58	
		149.5		

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1928phae.prpj..666C

8 May 1928

10:48:40	239.6			
	344.2	104.6		
	61.3	105.7		II
	167.0	210.3	-0.58	
		149.7		
	239.8			
	337.3	97.5		
	62.3	101.1		
	163.4	198.6	-0.35	
		161.4		
				-0.36
	335.2			
	427.2	92.0		
	153.2	94.0		
	247.2	186.0	-0.11	
		174.0		
	330.7			
	436.1	105.4		
	152.7	95.7		
10:56:00	248.4	201.1	-0.40	
		158.8		
	change in	angle		

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1928phae.proj..666C

90

8 May 1928.

10:57:50	2.7			
	101.8	99.1		
	187.0	93.5		II
	280.5	192.6	-0.24	
		167.4		
	7.4			
	99.0	91.6		
	191.1	87.9		
	279.0	179.5	+0.01	
				-0.33
	89.7			
	194.0	104.3		
	273.5	97.8		
	371.3	202.1	-0.42	
		157.9		
	89.4			
	198.4	109.0		
	271.7	105.6		
11:07:10	377.3	214.6	-0.67	
		145.4		

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1928phae.proj..666C

8 May 1928.

11:09:20	89.8			
	195.3	105.5		
	274.0	101.0		IV
	375.0	206.5	-0.51	
		153.5		
	94.0			
	190.3	96.3		
	272.6	98.3		
	370.9	194.6	-0.28	
		165.4		
				-0.31+
	189.0			
	279.0	90.0		
	6.4	89.6		
	96.0	179.6	+0.01	
	179.8			
	282.2	102.4		
	2.4	102.2		
11:16:10	104.6	204.6	-0.47	
		155.4		

a very thin cloud in this region; almost haze.

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1928phae.proj..666C

92

8 May 1928

11:17:50	180.6			
	279.1	98.5		
	2.9	98.8		V
	101.7	197.3	-0.33	
		162.7		
	189.2			
	278.1	88.9		
	8.1	90.1		
	98.2	179.0	+0.02	
				-0.35$_5$
	271.0			
	375.2	104.2		
	95.8	99.4		
	195.2	203.6	-0.45	
		156.4		
	270.8			
	378.1	107.3		
	89.8	107.2		
11:25:00	197.0	214.5	-0.66	
		145.5		

Some thin cloud again.

Two clouds continue.

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1928phae.proj..666C

Saturday 12 May 1928.
Sy Ursae Majoris 09 4950

12" Polar Phot J.
L.E.C. Obs: Rec.

E.S.T. referred to noon, unconnected for watch error

	var dis		
7:49:10	265.2		
	342.6	77.4	
8:49:10	84.6	81.3	
	165.9	158.7	−0.41

I

276.0		
335.0	59.0	
94.2	61.8	
156.0	120.8	−0.18

−1.27−

10.3		
57.2:	46.9	
194.0:	45.0	
239.0	91.9	−0.86

	9.0:		
	63.0	54.0	
	190.8	47.6	
8:58:10	238.4	101.6	−0.62

Watch 12s slow at 8:29 P.M. E.D.S.T.
Twilight exceedingly bright but stars well visible. Perfectly clear – wonderful night except for slight natural mist and consequent poor seeing. Good focus impossible.

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1928phae.proj..666C

12 May 1928

8:06:00	19.7			
	69.0	49.3		
	196.1	52.6		II
	248.7	101.9	- 1.61	
	20.3			
	65.6	45.3		
	201.7	43.0		
	244.7	88.3	- 1.96	
				- 1.40
	104.0			
	166.0	62.0		
	282.0	60.4		
	342.4	122.4	- 1.14	
	98.0			
	165.0	67.0		
	278.0	67.9		
8:14:10	345.9	134.9	- 0.88	

Focus changed slightly before this group.

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1928phae.proj..666C

12 May 1928.

8:14:20	98.8			
	167.2	68.4		
	279.0	71.2		III
	350.2	139.6	- 0.78	
	104.8			
	163.4	58.6		
	281.0	60.7		
	341.7	119.3	- 1.21	
				- 1.31+
	193.1			
	243.8	50.7		
	19.8	45.3		
	65.1	96.0	- 1.76	
	193.6			
	246.3	52.7		
	15.7	53.6		
8:23:20	69.3	106.3	- 1.50	

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1928phae.proj..666C

12 May 1928

8:23:40	196.8			
	248.1	51.3		
	17.0	54.3		IV
	71.3	105.6	- 1.52	
	199.0			
	245.6	46.6		
	19.6	47.8		
	67.4	94.4	- 1.80	
				- 1.31 -
	281.0			
	340.0	59.0		
	104.0	56.0		
	160.0	115.0	- 1.30	
	274.2			
	348.0	73.8		
	94.6	74.6		
8:31:50	169.2	148.4	- 0.61	

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1928phae.proj..666C

12 May 1928

8:36:10	273.2			
	347.7	74.5		
	93.4	76.7		V
	170.1	151.2	- 0.55	
	282.8			
	342.7	59.9		
	103.7	58.3		
	162.0	118.2	- 1.23	
				- 1.27+
	22.2			- 1.2-
	67.7	45.5		
	196.0	50.8		
	246.8	96.3	- 1.75	
	15.0			
	68.2	53.2		
	196.2	50.7		
8:45:20	244.9	103.9	- 1.56	

Images very bad at end.

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12 May 1928
RS Canum Venaticorum Plate J.

Comparison star at 1 (1855) $13^h 05^m.3$ $+36°.6$
P.A. = 20°W. Separation = 4.0

	Var dis.		
9:26:00	278.2		
	346.3	68.1	
	102.4	65.6	I
	168.0	133.7	- 0.90
	283.9		
	341.9	58.0	
	109.4	52.6	
	162.0	110.6	- 1.40
			- 1.56+
	26.0		
	65.3	39.3	
	205.0	46.0	
	245.0	79.3	- 2.22
	22.4		
	71.8	49.4	
	200.3	47.7	
9:35:00	248.0	97.1	- 1.73

Images rather faint at equality.

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1928phae.proj..666C

12 May 1928.

9:38:20	20.3			
	69.8	49.5		
	201.8	42.1		II
	243.9	91.6	- 1.87	
	26.4			
	65.8	39.4		
	205.8	37.3		
	243.1	76.7	- 2.29	
				- 1.77 -
	110.0			
	160.2	50.2		
	289.8	51.2		
	341.0	101.4	- 1.62	
	106.8			
	165.2	58.4		
	286.0	57.6		
9:48:30	343.0	115.4	- 1.29	

Lows altered slightly.

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1928phae.proj.666C

12 May 1928

9:51:50	114.8			
	175.7	60.9		
	292.7	63.1		III
	355.8	124.0	- 1.11	
	122.1			
	171.8	49.7		
	299.2	48.6		
	347.8	98.3	- 1.70	
				- 1.72+
	218.7			
	253.3	34.6		
	33.7	41.1		
	74.8	75.7	- 2.32	
	214.2			
	257.0	42.8		
	30.0	53.0		
10:00:20	83.0	95.8	- 1.76	

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1928phae.proj.6666

12 May 1928.

10:01:00	211.1		
	254.8	43.7	
	34.4	46.6	
	81.0	90.3	− 1.91

IV

	215.2		
	257.8	42.6	
	35.7	40.3	
	76.0	82.9	− 2.11

− 1.715

	299.2		
	352.2	53.0	
	122.0	49.0	
	171.0	102.0	− 1.61

	296.1		
	353.2	57.1	
	116.9	61.1	
10:10:00	178.0	118.2	− 1.23

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1928phae.proj.666C

12 May 1928

10:13:10	293.1			
	355.0	61.9		
	115.0	61.0		V
	176.0	120.9	- 1.13	
	301.7			
	349.3	47.6		
	121.5	49.7		
	171.2	97.3	- 1.72	
				-1.71-
	33.8			
	75.4	41.6		
	213.7	43.6		
	256.7	84.6	- 2.06	
	33.7			
	78.2	44.6		
	211.9	45.3		
10:22:20	257.2	89.8	- 1.92	

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1928phae.proj..666C

12 May 1928

R γ Boötis 144523

	Comp	* dis		
16:38:20	205.8			
	302.9	97.1		
	25.3	102.3		
	125.6	197.4	−0.33	I
		162.6		
	210.1			
	298.0	87.9		
	29.0	92.0		
	121.0	179.9	+0.00	
				−0.34+
	289.3			
	398.9	109.6		
	114.8	102.6		
	217.4	212.2	−0.62	
		147.8		
	293.1			
	393.3	102.2		
	114.0	102.0		
10:47:10	216.0	204.2	−0.42	
		157.8		

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1928phae.proj..666C

12 May 1928

10:47:30	291.8			
	399.8	108.0		
	111.0	108.7		II
	219.7	216.7	-0.71	
		143.3		
	295.0			
	396.2	101.2		
	115.1	98.3		
	213.4	199.5	-0.37	
		140.5		
				-0.33+
	26.5			
	121.0	94.5		
	214.0	87.0		
	301.0	181.5	-0.03	
		178.5		
	26.8			
	124.8	98.0		
	266.1	93.8		
10:54:50	299.9	191.8	-0.22	
		168.2		

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1928phae.proj..666C

12 May 1928

10:55:00	26.8			
	121.9	95.1		
	206.3	89.9		III
	296.2	185.0	-0.09	
		175.0		
	25.2			
	121.6	96.4		
	209.0	90.8		
	299.8	187.2	-0.14	
		172.8		
				-0.32+
	112.4			
	218.7	106.3		
	292.1	104.8		
	396.9	211.1	-0.60	
		148.9		
	112.2			
	217.2	105.0		
	293.2	99.1		
11:02:10	392.3	204.1	-0.46	
		155.9		

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1928phae.proj..666C

12 May 1928.

11:02:50	115.1			
	219.1	104.0		
	292.7	102.5		IV
	395.2	206.5	-0.51	
		153.5		
	110.8			
	218.6	107.8		
	291.0	108.0		
	399.0	215.8	-0.69	
		144.2		
				-0.36
	208.9			
	300.4	91.5		
	30.0	90.8		
	120.8	182.3	-0.04	
		177.7		
	206.8			
	301.0	94.2		
	24.6	96.2		
11:10:W	120.8	190.4	-0.20	
		169.6		

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1928phae.proj..666C

12 May 1928

11:10:10	202.9			
	302.0	99.1		
	26.7	97.0		V
	123.7	196.1	-0.30	
		143.9		
	207.4			
	305.9	98.5		
	28.4	95.9		
	124.3	194.4	-0.27	
		165.6		
				-0.42
	295.1			
	393.1	98.0		
	118.1	97.9		
	216.0	195.9	-0.30	
		167.1		
	289.7			
	399.4	109.7		
	109.2	111.9		
11:16:30	221.1	221.6	-0.81	
		138.4		

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12 May 1928
T 2 Herculis 163138. Plat J.

	Comp * dis	P. A. = 55W	Separation = 3.8	
14:34:10	36.7			
	116.8	80.1		
	217.5	75.3		I
	292.8	155.4	+0.47	
	41.8			
	116.9	75.1		
	222.8	69.4		
	292.2	144.5	+0.68	
				+0.285
	122.7			
	212.3	89.6		
	297.0	93.0		
	390.0	182.6	-0.05	
		177.4		
	120.0			
	211.8	91.8		
	300.9	86.1		
11:41:30	387.0	177.9	+0.04	

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12 May 1928

11:41:50	125.2		
	211.8	86.6	
	302.3	87.7	II
	390.0	174.3	+0.11
	125.9		
	212.1	86.2	
	304.0	83.3	
	387.3	169.5	+0.20
			+0.41
	224.9		
	292.4	67.5	
	42.9	67.9	
	110.8	135.4	+0.87
	215.8		
	295.0	79.2	
	40.1	76.8	
11:49:40	116.9	156.0	+0.46

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1928phae.proj..666C

12 May 1928.

11:50:10	219.0			
	292.7	73.7		
	38.3	76.0		III
	114.3	149.7	+0.58	
	222.0			
	292.0	70.0		
	40.9	71.4		
	112.3	141.4	+0.75	
				+0.39+
	301.2			
	384.1	82.9		
	126.7	80.2		
	206.9	163.1	+0.32	
	300.9			
	391.8	90.9		
	121.7	93.1		
11:57:10	214.8	184.0	-0.08	
		176.0		

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12 May 1928.

R T Scuti 184410 Plot R.

Comparison star: The bright companion in B.D.

	Comp	dis.		
12:21:15	342.2			
23:45	377.7	35.5		
	163.9	29.6		I
25:30	193.5	65.1	+ 2.67	
28:20	339.5			
	377.3	37.8		
	158.0	39.6		
	197.6	77.4	+ 2.27	
				+ 2.38
	247.0			
	289.9	42.9		
	69.8	38.5		
	108.3	81.4	+ 2.15	
	248.7			
	286.9	38.2		
	73.3	34.3		
12:37:50	107.6	72.5	+ 2.43	

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1928phae.proj..666C

12 May 1928

II

12:38:40	251.2		
	286.9	35.7	
	72.8	34.3	
12:41:20	107.1	70.0	+ 2.51
12:43:30	249.3		
	287.0	37.7	
	69.4	36.6	
12:45:10	106.0	74.3	+ 2.37
			+ 2.41 -
12:46:05	158.8		
	199.2	40.4	
	341.8	36.9	
12:48:15	378.7	77.3	+ 2.28
12:49:40	160.7		
	197.4	36.7	
	341.7	34.4	
12:52:20	376.1	71.1	+ 2.47

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1928phae.proj..666C

12 May 1928

12:53:20	159.6			
	194.9	35.3		
	342.1	32.3		III
12:55:25	374.4	67.6	+ 2.59	
12:57:25	159.7			
	198.1	38.4		
	339.8	38.0		
12:59:35	377.8	76.4	+ 2.30	
				+ 2.28 -
13:00:40	70.8			
	109.9	39.1		
	248.3	41.2		
13:02:30	289.5	80.3	+ 2.19	
13:03:10	67.1			
	107.9	40.8		
	245.2	44.8		
13:04:50	290.0	85.6	+ 2.03	

Images extremely faint to almost invisible at equality. Variable never well seen.

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1928phae.proj..666C

12 May 1928.

RS Scuti 184310 Phot. I.

Comparison star is close companion of RT Scuti.

Comp + dist. P.A. 63°W Separation 2.2

13:41:20	58.3			
	95.0	36.7		I
	238.3	38.4		
	276.7	75.1	+ 2.34	
	59.9			
	92.9	33.0		
	239.8	35.4		
	275.2	68.4	+ 2.56	
				+ 2.33
	147.2			
	185.0	37.8		
	326.4	37.9		
	364:3	75.7	+ 2.32	
	146.1			
	189.3	43.2		
	326.0	40.0		
13:53:10	366.0	83.2	+ 2.10	

Images rather faint at equality.

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1928phae.proj..666C

12 May 1928

14:31:30	144.6			
	191.2	46.6		II
	322.0	47.8		
	369.8	94.4	+ 1.80	
	147.6			
	189.3	41.7		
	324.8	41.1		
	365.9	82.8	+ 2.11	
				+2.28
	242.2			
	275.6	33.4		
	59.3	32.4		
	91.7	65.8	+ 2.65	
	240.6			
	274.0	33.4		
	58.0	35.0		
14:42:10	93.0	68.4	+ 2.56	

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1928phae.proj..666C

12 May 1928

14:42:50	240.3			
	274.3	34.0		
	59.0	33.3		III
	92.3	67.3	+ 2.60	
	242.3			
	275.1	32.8		
	62.0	30.0		
	92.0	62.8	+ 2.74	
				72.38+
	326.1			
	365.1	39.0		
	149.9	37.0		
	186.9	76.0	+ 2.32	
	322.0			
	369.7	47.7		
	145.4	44.5		
14:53:10	189.9	92.2	+ 1.84	

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1928phae.proj..666C

12 May 1928

R T Scuti (Cont).

13:00:30	341.3			
	376.8	35.5		
	162.4	33.5		IJ
	195.9	69.0	+ 2.54	
	340.3			
	378.0	37.7		
	159.1	37.7		
	196.8	75.4	+ 2.33	
				+ 2.45$_5$
	250.4			
	289.0	38.6		
	71.3	33.3		
	104.6	71.9	+ 2.44	
	249.4			
	286.3	36.9		
	71.1	32.9		
15:12:W	104.0	69.8	+ 2.51	

Images exceedingly faint.

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1928phae.proj..666C

12 May 1928

UU Herculis 163238

	Comp. + dis			
15:17:00	40.8			
	115.0	74.2		I
	217.2	73.6		
	290.8	147.8	+ 0.62	
	42.2			
	114.3	72.1		
	219.0	72.2		
	291.2	144.3	+0.69	
				+0.35
	122.8			
	208.7	85.9		
	302.0	89.0		
	391.0	174.9	+0.09	
	120.7			
	209.9	89.2		
	301.9	91.2		
15:23:50	392.1	180.4	-0.01	
		179.6		

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1928phae.proj..666C

12 May 1928

15:24:20	121.4			
	209.0	87.6		
	303.2	88.5		II
	391.7	176.1	+0.07	
	124.6			
	208.2	83.6		
	304.2	84.1		
	388.3	167.7	+0.23	
				+0.37+
	217.0			
	293.4	76.4		
	42.9	72.0		
	114.9	148.4	+0.61	
	221.4			
	293.2	71.8		
	37.8	78.2		
15:31:10	116.0	150.6	+0.58	

Watch 15^s slow at 5:40 E.S.T.

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1928phae.proj..666C

E.S.T. referred to noon, uncorrected for instr. err.

Sunday 13 May 1928

SY Ursae Majoris

12" Polar Plat I.

L.E.P. Dy Rec

	Var dis		
9:07:00	89.3		
	176.2	86.9	
	282.2	73.1	
	355.3	160.0	-0.38
			I
	106.1		
	164.0	57.9	
	284.0	61.0	
	345.0	118.9	-1.22
			± 1.21+
	200.2		
	250.0	49.8	
	23.2	44.8	
	68.0	94.6	-1.79
	200.2		
	258.2	58.0	
	18.9	56.3	
9:14:00	69.2	108.3	-1.46

Watch 18^s slow at 9:50 E.D.S.T.
Sky poor but perhaps clearing so will start.

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1928phae.proj..666C

13 May 1928

9:14:30	195.9			
	255.6	59.7		
	22.0	52.3		II
	74.3	112.0	-1.37	
	203.0			
	248.7	45.7		
	20.8	47.9		
	68.7	93.6	-1.62	
				-1.28+
	286.0			
	345.9	59.9		
	98.5	65.3		
	163.8	125.2	-1.08	
	279.0			
	346.3	67.3		
	100.3	68.5		
9:20:00	168.8	135.8	-0.86	

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1928phae.proj..666C

13 May 1928.

9:20:40	276.0			
	344.7	68.7		
	100.0	67.5		III
	167.5	136.2	-0.85	
	290.0			
	347.3	57.3		
	105.6	61.8		
	167.4	119.1	-1.21	
				-1.345
	24.7			
	68.0	43.3		
	202.0	50.8		
	252.8	94.1	-1.81	
	18.0			
	70.2	52.2		
	200.0	54.0		
9:25:40	254.0	106.2	-1.51	

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1928phae.proj..666C

13 May 1928.

9:27:50	18.7			
	72.2	53.5		
	200.2	52.5		IV
	252.7	106.0	-1.51	
	23.3			
	66.8	43.5		
	203.3	46.6		
	249.9	90.1	-1.91	
				-1.41
	105.0			
	164.9	59.9		
	287.8	53.3		
	341.1	113.2	-1.34	
	102.2			
	169.8	67.6		
	281.0	67.0		
9:34:20	348.0	134.6	-0.88	

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1928phae.proj...666C

13 May 1928.

9:34:50	100.1			
	168.6	68.5		
	280.0	71.3		V
	351.3	139.8	-0.78	
	109.0			
	160.7	51.7		
	287.0	56.8		
	343.8	108.5	-1.45	
				-1.43
	206.0			
	248.4	42.4		
	24.4	42.6		
	67.0	85.0	-2.05	
	197.8			
	252.3	54.5		
	18.8	54.4		
9:40:50	73.2	108.9	-1.44	

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1926phae.proj.:6666

13 May 1928

RS Canum Venaticorum

130636

	Van dis			
9:49:30	107.0			
	167.9	60.9		I
	285.8	62.4		
	348.2	123.3	- 1.12	
	110.0			
	160.3	50.3		
	289.9	54.0		
	343.9	104.3	- 1.55	
				-1.62₅
	206.9			
	249.3	42.4		
	24.2	43.2		
	67.4	85.6	- 2.03	
	201.9			
	249.4	47.5		
	22.3	46.8		
9 10:57:00	69.1	94.3	- 1.80	

10:57:W
EDST

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1928phae.proj..666C

13 May 1928

9:58:30	274.9			
	319.0	44.1		II
	963.1	45.6		
	138.7	89.7	-1.92	
	276.2			
	315.0	38.8		
	96.9	38.1		
	135.0	76.9	-2.29	
				-1.80;
	2.0			
	51.8	49.8		
	178.9	50.4		
	029.3	100.2	-1.65	
	-4.0			
	55.2	59.2		
	177.2	53.2		
10:09:20	230.4	112.4	-1.36	

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1928phae.proj..666C

13 May 1928.

10:09:50	-5.4			
	56.9	62.3		III
	171.8	64.5		
	236.3	126.8	- 1.05	
	0.2			
	51.3	51.1		
	181.1	48.7		
	229.8	99.8	- 1.66	
				- 1.68 -
	98.7			
	132.9	34.2		
	277.0	39.0		
	316.0	73.2	- 2.40	
	89.1			
	141.8	52.7		
	269.8	49.8		
10:17:00	319.6	102.5	- 1.60	

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1928phae.proj..666C

13 May 1928

10:20:00	92.9			
	137.3	44.4		
	272.2	48.7		IV
	320.9	93.1	-1.83	
	97.8			
	135.4	37.6		
	274.3	40.7		
	315.0	78.3	-2.25	
				-1.77
	181.0			
	229.8	48.8		
	1.4	48.6		
	50.0	97.4	-1.72	
	~~179.2~~			
	~~228.6~~			
	~~1.6~~			
10:28:00	~~50.0~~		Not reread	
10:29:40	179.0			
	232.8	53.8		
	-5.6	61.4		
10:31:10	55.8	115.2	-1.30	

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1928phae.proj..666C

13 May 1928.

10:31:50	177.2			
	233.3	56.3		
	-4.0	61.7		V
	57.7	118.0	- 1.24	
	179.8			
	229.1	49.3		
	-0.8	50.9		
	50.1	100.2	- 1.65	
				- 1.67$_5$
	273.0			
	318.8	45.8		
	95.0	42.4		
	137.4	88.2	- 1.96	
	274.3			
	322.9	48.6		
	93.1	43.9		
10:39:10	137.0	92.5	- 1.85	

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1928phae.proj..666C

13 May 1928
RY Bootis 144523

	Comp * ds		
10:46:20	~~334.8~~		I
	~~433.9~~		
	~~155.0~~		
	~~253.9~~		
	~~345.2~~		
	~~422.6~~	96.3	
10:50:10	245.5	165.1	
	341.8	201.4	- 0.41
	63.1	158.6	
	168.2		
			- 0.42 -
	244.8		
	340.9	96.1	
	71.1	91.8	
	163.0	187.9	- 0.15
		172.1	
	336.8		
	434.6	97.8	
	157.0	100.3	
	257.3	198.1	- 0.34
		161.9	
	329.6		
	443.2	113.6	
	152.2	106.2	
10:57:10	258.4	219.8	- 0.77
		140.2	

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1928phae.proj..666C

13 May 1928

10:58:W	328.0			
	440.1	112.1		
	148.8	111.2		II
	260.0	223.3	-0.84	
		136.9		
	336.0			
	433.0	97.0		
	153.0	1W.0		
	253.0	197.0	-0.32	
		163.0		
				-0.365
	68.8			
	157.2	88.4		
	247.2	95.8		
	343.0	184.2	-0.08	
		175.8		
	68.8			
	163.9	95.1		
	247.9	96.8		
11:05:20	344.7	191.9	-0.22	
		168.1		

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1928phae.proj..666C

13 May 1928

11:06:00	63.7			
	162.9	99.2		
	245.0	101.3		III
	346.3	200.5	- 0.39	
		159.6		
	71.2			
	162.8	91.6		
	248.2	91.8		
	340.0	183.4	- 0.06	
		176.6		
				-0.31$_5$
	155.4			
	255.0	99.6		
	-20.8	90.8		
	70.0	190.4	- 0.20	
		169.6		
	~~154~~ 151.9			
	255.0	103.1		
	-27.6	105.9		
14:13:10	81.3	212.0	- 0.61	
		148.0		

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1928phae.proj..666C

13 May 1928

11:14:20	149.9			
	256.8	106.9		IV
	-27.0	103.7		
	76.7	210.6	-0.59	
		149.4		
	154.0			
	257.1	103.1		
	-27.1	105.1		
	78.0	208.2	-0.54	
		151.8		
				-0.39$_5$
	247.0			
	340.8	93.8		
	72.0	87.2		
	159.2	181.0	-0.02	
		179.0		
	243.8			
	346.2	102.4		
	64.0	166.2		
11:21:00	164.2	202.6	-0.43	
		157.4		

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1928phae.proj..666C

13 May 1928

11:21:40	243.8			
	344.7	100.9		
	68.8	95.1		V
	163.9	196.0	- 0.30	
		164.0		
	249.1			
	342.9	93.8		
	71.8	93.2		
	165.0	187.0	- 0.13	
		173.0		
				- 0.37+
	-25.8			
	72.9	98.7		
	155.2	100.1		
	255.3	198.8	- 0.36	
		161.2		
	-30.0			
	82.4	112.4		
	154.2	104.0		
11:28:00	258.2	216.4	- 0.70	
		143.6		

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1928phae.proj..666C

13 May 1928
RS Sauti 184310

	Comp * dis		
11:44:50	28.0		
	71.0	43.0	
	209.0	43.0	
	252.0	86.0	+ 2.02
	34.1		
	62.8	28.7	
	215.3	30.8	
	246.1	59.5	+ 2.88
			+ 2.22 +
	122.7		
	159.3	36.6	
	299.7	41.2	
	340.9	77.8	+ 2.26
	116.8		
	166.8	50.0	
	295.4	47.2	
11:54:40	342.6	97.2	+ 1.73

I

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1928phae.proj..666C

13 May 1928

11:55:15	117.3			
	167.3	50.0		
	292.8	48.9		II
	341.7	98.9	+ 1.68	
	124.2			
	158.2	34.0		
	298.6	41.4		
	340.0	75.4	+ 2.33	
				+ 2.27
	212.3			
	246.8	34.5		
	34.0	31.9		
	-65.9	66.4	+ 2.63	
	211.0			
	245.0	34.0		
	29.2	38.0		
12:03:40	67.2	72.0	+ 2.44	

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1928phae.proj..666C

13 May 1928

12:04:10	210.8			
	249.7	38.9		III
	31.2	35.7		
	66.9	74.6	+2.36	
	212.2			
	246.5	34.3		
	33.0	34.1		
	67.1	68.4	+2.56	
				+2.18
	298.0			
	338.8	40.8		
	119.6	40.2		
	159.8	81.0	+2.17	
—	291.0			
	343.0	52.0		
	114.8	49.1		
12:13:00	163.9	101.1	+1.63	

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1928phae.proj..666C

13 May 1928
R T Scuti 184410

	Comp + dis			
12:23:50	252.0			
	291.7	39.7		I
	70.4	36.7		
12:27:00	107.1	76.4	+ 2.30	
12:28:40	247.1			
	291.9	44.8		
	70.0	37.0		
12:30:50	107.0	81.8	+ 2.14	
				+ 2.35$_5$
12:31:30	161.2			
	195.2	34.0		
	340.3	37.0		
12:34:10	377.3	71.0	+ 2.47	
12:35:10	161.7			
	197.2	35.5		
	342.0	34.4		
12:37:40	376.4	69.9	+ 2.51	

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1928phae.proj..666C

13 May 1928

12:38:35	162.0			
	194.2	32.2		
	342.0	32.9		II
12:42:20	374.9	65.1	+ 2.67	
12:45:20	163.2			
	198.0	34.8		
	337.9	37.3		
12:47:50	375.2	72.1	+ 2.44	
				+2.44-
12:49:05	69.7			
	108.1	38.4		
	248.3	43.5		
12:51:30	291.8	81.9	+ 2.14	
12:52:40	72.2			
	106.4	34.2		
	250.6	36.0		
12:54:40	286.6	70.2	+ 2.50	

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1928phae.proj..666C

13 May 1928.

12:53:10	72.6			
	104.4	31.8		
	253.7	34.5		III
12:59:40	288.2	66.3	+ 2.63	
13:01:10	72:0			
	107.0	35.0		
	248.8	41.9		
	290.7	76.9	+ 2.29	
				+ 2.435
	341.0			
	377.3	36.3		
	159.0	38.4		
13:05:00	197.4	74.7	+ 2.34	
13:06:40	339.8			
	377.7	37.9		
	162.3	33.5		
13:09:20	195.8	71.4	+ 2.46	

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1928phae.proj..666C

13 May 1928
U U Herculis 163238

	Comp + dis		
13:18:10	188.2		
	267.0	78.8	
	9.8	78.5	
	88.3	157.3	+0.43
	192.2		
	262.5	70.3	
	15.1	73.3	
	88.4	143.6	+0.70
			+0.31
	274.6		
	362.9	88.3	
	93.7	88.4	
	182.1	176.7	+0.06
	274.1		
	366.1	92.0	
	95.9	85.3	
13:28:00	181.2	177.3	+0.05

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1928phae.proj..666C

13 May 1928

13:29:50	292.9			
	385.8	92.9		
	116.3	90.0		II
	206.3	182.9	-0.05	
		177.1		
	298.8			
	382.9	84.1		
	120.2	81.9		
	202.1	166.0	+0.27	
				+0.31
	34.0			
	109.2	75.2		
	211.8	72.8		
	284.6	148.0	+0.61	
	31.8			
	110.2	78.4		
	210.9	80.5		
13:49:10	291.4	158.9	+0.40	

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1928phae.proj..666C

13 May 1928.

13:42:30	34.2			
	106.9	72.7		
	206.3	78.1		III
	284.4	150.8	+0.56	
	35.0			
	108.3	73.3		
	211.9	76.9		
	288.0	150.2	+0.57	
				+0.325
	117.2			
	202.0	84.8		
	298.2	84.5		
	382.7	169.3	+0.20	
	116.1			
	203.3	87.2		
	292.8	94.2		
13:50:20	387.0	181.4	-0.03	
		178.6		

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1928phae.proj..666C

13 May 1928

VX Herculis 162938

Conf + dis. P.A. 33°W Sifcastini 6.9

13:59:10	202.0			
	278.0	76.0		
	17.7	83.5		I
	101.2	159.5	+0.39	
	203.2			
	277.1	73.9		
	22.3	77.4		
	99.7	151.3	+0.55	
				+0.23
	287.2			
	376.8	89.6		
	104.9	91.1		
	196.0	180.7	−0.01	
		179.3		
	283.5			
	373.5	90.0		
	106.8	90.5		
14:08:00	197.3	180.5	−0.01	
		179.5		

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1928phae.proj..666C

13 May 1928

14:11:50	106.7			
	201.8	95.1		
	289.0	91.1		
	380.1	186.2	-0.12	II
		173.8		
	110.7			
	198.0	87.3		
	291.4	87.6		
	379.0	174.9	+0.09	
				+0.185
	205.3			
	281.2	75.9		
	22.8	80.5		
	103.3	156.4	+0.45	
	204.0			
	281.7	77.7		
	19.3	85.5		
14:21:00	104.8	163.2	+0.32	

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1928phae.proj..666C

13 May 1928

14:25:20	197.9			
	280.0	82.1		
	21.2	80.9		III
	102.1	163.0	+0.32	
	206.3			
	283.8	77.5		
	22.3	81.4		
	103.7	158.9	+0.40	
				+0.25
	290.3			
	373.6	83.3		
	113.0	81.4		
	194.4	164.7	+0.29	
	286.0			
	378.0	92.0		
	111.0	89.0		
14:33:00	200.0	181.0	-0.02	
		179.0		

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1928phae.proj.. 6660

13 May 1928

14:33:30	285.3			
	379.0	93.7		
	108.2	94.7		IV
	202.9	188.4	-0.16	
		171.6		
	289.3			
	379.3	90.0		
	116.2	78.8		
	195.0	168.8	+0.21	
				+0.18
	26.2			
	101.9	75.7		
	205.1	79.6		
	284.7	155.3	+0.47	
	21.8			
	105.7	83.9		
	200.4	85.6		
14:42:30	286.0	169.5	+0.20	

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1928phae.proj..666C

13 May 1928.

14:43:10	21.0		
	106.0	85.0	
	205.0	80.3	
	285.3	165.3	+0.28
			V
	23.3		
	102.4	79.1	
	204.7	79.5	
	284.2	158.6	+0.41
			+0.25+
	114.2		
	197.6	83.4	
	292.8	79.9	
	372.7	163.3	+0.32
	106.1		
	200.2	94.1	
	291.4	85.7	
14:51:10	377.1	179.8	+0.00

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1928phae.proj..6660

13 May 1928
T 2 Herculis 16 31 38

14:54:W	289.8			
	376.3	86.5		
	108.0	90.7		I
	198.7	177.2	+0.05	
	292.8			
	373.3	80.5		
	113.8	81.3		
	195.1	161.8	+0.35	
				+0.30 -
	21.8			
	103.1	81.3		
	205.0	76.0		
	281.0	157.3	+0.43	
	22.7			
	104.0	81.3		
	205.0	80.0		
15:03:30	285.0	161.3	+0.36	

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1928phae.proj..666C

13 May 1928

15:04:10	21.0			
	104.8	83.8		
	202.4	83.0		II
	285.4	166.8	+0.25	
	22.1			
	103.9	81.8		
	207.9	77.0		
	284.9	158.8	+0.40	
				+0.30
	116.0			
	194.2	78.2		
	291.7	83.3		
	375.0	161.5	+0.35	
	113.0			
	197.8	84.8		
	292.0	84.3		
15:12:20	376.3	169.1	+0.20	

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1928phae.proj..666C

13 May 1928.

15:12:50	111.8			
	198.8	87.0		III
	291.0	83.2		
	374.2	170.2	+0.19	
	115.8			
	192.0	76.2		
	293.8	77.3		
	371.1	153.5	+0.51	
				+0.37
	204.1			
	285.3	81.2		
	22.4	79.7		
	102.1	160.9	+0.36	
	205.9			
	284.9	79.0		
	22.6	79.6		
15:20:10	102.2	158.6	+0.41	

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1928phae.proj..666C

13 May 1928
R Scuti 18 42 05

Ordis P.A. 62° E Separation 2.9

15:29:00	46.2			
	107.8	61.6		
	222.2	69.1		I
	291.3	130.7	- 0.96	
	48.7			
	104.7	56.0		
	228.1	60.9		
	289.0	116.9	- 1.26	
				- 1.11 -
	137.0			
	197.9	60.9		
	315.2	62.8		
	378.0	123.7	- 1.11	
	137.0			
	197.1	60.1		
	318.0	64.1		
15:36:00	382.1	124.2	- 1.10	

15:23 R T Scuti apparently normal.
R S Scuti apparently considerably fainter. Poor.

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1928phae.proj.:6666

13 May 1928.

15:36:20	134.6			
	198.4	63.8		II
	318.8	58.3		
	377.1	122.1	− 1.14	
	137.0			
	197.2	60.2		
	317.2	60.7		
	377.9	120.9	− 1.17	
				− 1.11 −
	227.3			
	288.2	60.9		
	48.7	58.6		
	107.3	119.5	− 1.20	
	222.9			
	290.0	67.1		
	45.3	65.7		
15:42:W	111.0	132.8	− 0.92	
4:42:W				
E.D.S.T.				

Watch 15s slow at 4:50 E.D.S.T.

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1928phae.proj..666C

154

E.S.T. referred to noon uncorrected for watch error

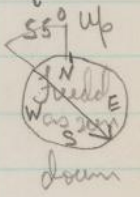
Sunday ~~10~~ 9 September 1928. 12" Polar

J.D. 2 42[5]5499

L.E.C. Obs Rec

7:30	0.4	200212	SY Aquilae	not seen. < 12.0
7:35	0.4	200357	S Cygni	not seen. < 12.4
7:54	0.4	200514	R Capricorni	not seen. < 11.4 Pentoforn is 11.5
8:01	0.4	200715a	S Aquilae	Est - 11.5
8:11	0.4	201121	RT Capric.	Est. 8.1
8:17	0.5	200822	W Capric	not seen < 11.0
8:20	0.5	201005	R ~~Delphini~~	Est. 9.7
8:28	0.5	201130	SX Cygni	not seen < 13.3
8:34		Telelofin	enter 9m-10m reddish-orange	

Delph. Sagittae



Positive angle entered N 55° W, left S 55° E.
Tried for WX Cygni

8:36	0.5	201437b	WX Cygni	not seen < 12.1
8:47	0.5	201520	V Sagittae	Est. 12.1
8:55	0.5	201647	U Cygni	Est. 9.6
9:04	0.5	200938	RS Cygni	Est 7.6

B.D. star at 20h 09m 20s, +38° 09' is much fainter than any oth B.D. star. B.D. chart in error.

These observations reported to AGNS-HCO
September 19, 1928. L.E.C.

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1928phae.proj.:666C

Thursday 25 October 1928 12" Polar Phot T

U U Herculis. 163238

EST reprinted from Harvard Annals for which ans

Le EC by Ru

No spectacles and at LC focus.

I

	comp.	dis		
6:27:00		201.8		
		288.1	86.3	
		21.8	89.2	
		110.0	175.5	+ 0.08
		206.6		
		282.0	75.4	
		31.6	73.7	
		105.3	149.1	+ 0.59
				+ 0.32 5
		300.2		
		375.0	74.8	
		117.0	78.8	+
		195.8	153.6	+ 0.50
		290.2		
	18.8	378.8	88.6	
		113.8	84.4	
6:38:45		198.2	173.0	+ 0.13

Strong moonlight and some cloud.

325
13.0

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1928phae.proj..666C

25 October 1928

6:46:20	293.2			
	374.8	81.6		II
	110.0	82.9		
	192.9	164.5	+0.29	
	300.8			
	371.9	71.1		
	119.3	74.9		
	194.2	146.0	+0.65	
				+0.48
	29.0			
	101.0	72.0		
	210.6	67.7		
	278.3	139.7	+0.78	
	22.7			
	106.3	83.6		
	201.4	85.8		
6:57:15	287.2	169.4	+0.20	

Some haze + clouds.

+192
48

1928phae.proj.. 666C

25 octobre 1928

7:00:20	22.0			III
	108.4	86.4		
	201.3	84.9		
	286.2	171.3	+0.16	
	33.9			
	103.0	69.1		
	212.0	68.3		
	280.3	137.4	+0.83	
				+0.36 −
	114.7			
	198.2	83.5		
	295.8	82.7		
	378.3	166.2	+0.26	
	115.1			
	195.6	80.5		
	291.4	89.8		
7:10:30	381.2	170.3	+0.18	

Images very faint at equatorial.

4143
36-

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1928phae.proj..666C

158

25 October 1928

7:11:W	117.3			IV
	194.0	76.7		
	290.1	89.9		
	360.0	176.6	+0.06	
	115.3			
	193.6	78.3		
	293.1	83.6		
	376.7	161.9	+0.34	
				+0.395
	207.1			
	280.7	73.6		
	37.9	61.7		
	99.6	135.3	+0.87	
	206.0			
	285.9	79.9		
	23.0	83.6		
7:22:20	104.4	163.5	+0.31	

Images extremely faint at eyepiece.
Some cloud. Hour angle 5h 15m W

4158
395

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1928phae.proj--666C

Wed. Nov. 7, 1928

Phot R 12" Tel.

Obs. Anderson
Read Muller
Rec adams.

E.S.T. from Noon

α Cet δ Z1660

~~8:45:10~~	~~238.9~~		
8:46:15	223.3		
	239.6	variable dis	
	42.5	16.3	
	59.6	17.1	
		33.4	- H 17
	223.5		4.18
	240.3	16.8	
	41.9	16.1	- H. 20
	58.0	32.9	

Clouds

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1928phae.proj..666C

E.S.T. referred to noon uncorrected for watch error

Thursday 15 November 1928.

12" Polar

L. E. C. Obs.
L. E. C. Rec.

6:08	213843	SS Cygni	Est. 11.6
6:24	005840	RX Androm.	Est. 11.4
6:31	202817	Z Delph.	Est. 10.0
6:35	201130	SX Cygni	Est. 11.1
8:03	201008	R Delphini	Est. 10.5
8:11	003818	R Androm.	Est. 7.5
8:24	215605	V Pegasi	Not seen < 11.9.

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1928phae.proj..666C

Saturday 8 June 1929.

12" Pilar

EST referred to noon uncorrected for multiscan

L E C Obs Rec

9:45	144918	υ Bootis	Set 11:1	Watch 10:45

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1928phae.proj..666C

EST referred to noon Uncorrected for watch error

Saturday 30 November 1929.

SX Monoceratis
BD. +4° 1476 (7.9)
Comparison star BD+5°1448(7.2)

{12" Polar Photo T
LEC obs Rec

Vat right

	Index A	Dist 1.9	P.A. S 8° W	
		+about 1.1	Comp* br & dis	6h 44m
14:15:10	84.4			C.P.
	140.1	55.7	Dec +5°.3	
	263.3	55.4		+5°
	316.7	111.1		⊙ Var
			+1.39	
	86.3			
	143.2	56.9		
	260.6	63.4		
	324.0	120.3		
	B		+1.19	+1.21
	172.0			
	237.0	65.0		
	351.2	65.8		
	57.0	130.8		
			+0.96	
	176.9			
	232.3	55.4		
	355.1	55.6		
14:30:20	50.7	111.0		
			+1.39	
13:12:01	Correct time		13:12:00	

Wearing spectacles supposed to correct for astigmatism

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1928phae.proj..666C

30 November 1929

	B			
14:33:50	175.4			II
	232.7	57.3		
	356.9	54.4		
	51.5	111.7		
			+ 1.38	
	170.2			
	235.1	64.9		
	350.0	62.2		
	52.2	127.1		
	A		+ 1.04	+ 1.345
	264.2			
	323.3	59.1		
	84.8	55.8		
	140.6	114.9		
			+ 1.31	
	269.3			
	318.7	49.4		
	87.2	50.8		
14:42:50	138.0	100.2		
			+ 1.65	

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1928phae.proj..666C

30 November 1929

	A			
14:48:50	267.4			
	322.2	54.8		III
	87.3	49.5		
	136.8	104.3		
			+ 1.55	
	266.2			
	323.8	57.6		
	83.3	57.7		
	141.0	115.3		
			+ 1.30	+1.35
	353.0			
	54.1	61.1		
	172.2	59.6		
	234.8	120.7		
			+1.18	
	357.4			
	52.4	55.0		
	174.0	56.8		
14:59:50	230.8	111.8		
			+1.38	

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1928phae.proj..666C

30 November 1929

15:05:W	358.9			IV
	51.9	53.0		
	174.9	58.1		
	233.0	111.1		
			+ 1.39	
	?			
	353.2			
	54.1	60.9		
	172.3	63.7		
	236.0	124.6		
			+ 1.09	+ 1.27
	84.0			
	144.9	60.9		
	263.3	63.5		
	326.8	124.4		
			+ 1.10	
	90.0			
	139.6	49.6		
	262.6	55.6		
15:16:W	318.2	105.2		
			+ 1.53	

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1928phae.proj..666C

30 November 1929.

15:19:25	87.2			
	137.3	50.1		V
	267.8	50.4		
	318.2	100.5		
			+1.64	
	83.8			
	140.6	56.8		
	263.6	56.3		
	319.9	113.1		
			+1.35	+1.38
	171.0			
	235.0	64.0		
	349.0	66.0		
	55.0	130.0		
			+0.98	
	177.3			
	230.7	53.4		
	354.8	51.2		
15:33:15	46.0	104.6		
			+1.54	

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1928phae.proj..666C

15:35:20	176.0			VI
	230.9	54.9		
	355.0	54.8		
	49.8	109.7		
			+1.42	
	173.0			
	233.1	60.1		
	351.0	62.7		
	53.7	122.8		
			+1.13	+1.34₅
	264.1			
	322.7	58.6		
	83.7	57.9		
	141.6	116.5		
			+1.27	
	267.3			
	318.1	50.8		
	86.0	53.1		
15:45:10	139.1	103.9		
			+1.56	

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1928phae.proj..666C

30 November 1929

15:48:40	265.2			
	319.3	54.0		VII
	88.0	53.0		
	141.0	107.0		
			+1.49	
	262.8			
	322.2	59.4		
	83.1	58.9		
	142.0	118.3		
			+1.23	+1.31 5
	356.7			
	53.3	56.6		
	171.1	62.9		
	234.6	119.5		
			+1.20	
	352.9			
	49.7	56.8		
	173.8	56.7		
15:59:50	230.5	113.5		
			+1.34	

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1928phae.proj..666C

30 November 1929.

16:02:40	355.4			VIII
	53.0	57.6		
	174.1	53.9		
	228.0	111.5		
			+1.38	
	359.6			
	56.2	56.6		
	171.1	61.7		
	232.8	118.3		
			+1.23	+1.36$_5$
	83.7			
	141.8	58.1		
	262.4	56.9		
	319.3	115.0		
			+1.30	
	90.0			
	140.4	50.4		
	266.0	54.0		
16:12:20	320.0	104.4		
			+1.55	

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1928phae.proj..666C

30 November 1929.

16: 14: 00	85.1			
	138.8	53.7		IX
	265.0	54.8		
	319.8	108.5		
			+ 1.45	
	81.7			
	139.8	58.1		
	263.8	59.4		
	323.2	117.5		
	A		+ 1.25	+ 1.32+
	172.3			
	233.0	60.7		
	352.2	64.1		
	56.3	124.8		
			+ 1.09	
	176.0			
	229.0	53.0		
	358.4	53.3		
16: 24: 60	51.7	106.3		
			+ 1.50	

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1928phae.proj..666C

30 November 1929

16:26:30	175.3			
	231.4	56.1		
	357.5	55.5		
	53.0	111.6		
			+ 1.38	
	168.6			
	234.7	66.1		
	347.9	74.8		
	62.7	140.9		
	A		+ 0.76	+ 1.20
	266.3			
	317.7	51.4		
	82.0	59.1		
	141.1	110.5		
			+ 1.41	
	266.1			
	320.4	54.3		
	82.0	63.5		
16:37:20	145.5	117.8		
			+ 1.24	

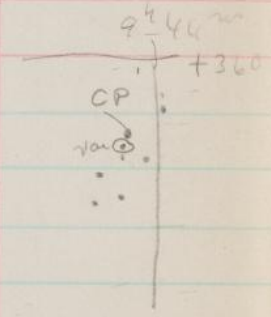
Stars faint and following poor.
Were stars in tree??

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1928phae.proj..666C

30 November 1929.
S Leonis Minoris
Not in BD

Comparison star BD. +25° 2073 (6.8)



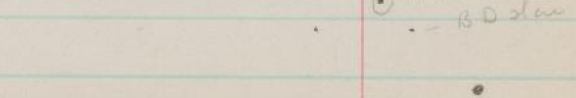
Easily seen but too close
for photometer T.

Bayonet point for
photometer R missing.

17:36:57 Comet time 17:37:10

Clear throughout night, supposedly.

Variable bright and slightly red



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1928phae.proj..666C

Sunday 8 December 1929

EST referred to noon uncorrected for watch error

12:55:45	Correct time 12:56:00
13:15	401, 1929 Cancri unseen. N.A. $2^h 20^m$ E. Nearly all B.D. stars seen.
13:45	395. 1929 Aurigae not seen. Fainter than B.D. 394. 1929 Aurigae too faint for photometer but easy in telescope.
14.15	151. 1929 Canis Minoris too faint for photometer. Sky good.

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1928phae.proj..666C

Wednesday 11 December 1929

EST referred to noon uncorrected for watch error

L E C Obs Ref - 12" Polar

12:54:35 Correct time 12:55:00

13

070311 W Canis Majoris difficult but possible in Plat T. Impossible in Plat. R. Air very pumpy.
Comparison star: PA = 320° E
BD -11° 1812 Dist = 0.5

071416 R Canis Majoris difficult but possible in Plat T. Comp. * faint.
Comparison star: PA = 49° E
BD -16° 4 12m.1 Dist = 3.0

13

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1928phae.proj. 666C

11 December 1929.
070311 W Canis Majoris

		Vbr + dis at right		
13:32:W	240.2			I
	343.9	103.7		
	62.7	101.3		
	164.0	205.0		
		− 155.0		
			− 0.48	
	247.7			
	337.7	90.0		
	69.0	85.9		
	154.9	175.9		
			+ 0.08	− 0.05
	345.0			
	66.0	81.0		
	163.8	82.2		
	246.0	163.2		
			+ 0.32	
	333.3			
	70.0	96.7		
	160.2	89.8		
13:41:30	250.0	186.5		
		− 173.5		
			− 0.12	

65 66
49 35
15 15

Color: orange

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1928phae.proj..666C

13:42:30	336.2			
	69.4	93.2		
	159.2	88.8		
	248.0	182.0		
		−178.0		
			−0.04	
	340.1			
	62.0	81.9		
	163.5	79.4		
	242.9	161.3		
			+0.36	−0.07
	60.2			
	162.6	102.4		
	242.2	92.5		
	334.7	194.9		
		−165.1		
			−0.28	
	68.4			
	163.7	95.3		
	242.4	101.6		
13:52:30	344.0	196.9		
		−163.1		
			−0.32	

P177. In daylight at telescope nucleus appears about 1/2 magnitude brighter than C.P.!!

1928phae.proj..666C

13:53:00	62.3			III
	163.9	101.6		
	244.8	102.5		
	347.3	204.1		
		−155.9		
			−0.46	
	66.3			
	159.0	92.7		
	247.1	93.2		
	340.3	185.9		
		−174.1		
			−0.11	−0.02₋₅
	165.0			
	245.0	80.0		
	342.3	75.0		
	57.3	155.0		
			+0.48	
	157.5			
	247.2	89.7		
	337.2	88.8		
14:01:25	64.0	178.5		
			+0.03	

Faint star near var visible at max of var. at times noted diminuing glass. While examining field after prev. found field very hazy and faint stars missing at both times cloud accents. no cloud to naked eye very old +5°C.

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1928phae.proj..666C

		V br + dis at night.		
14:39:20	181.9			I
	223.3	41.4		
	1.8	42.0		
	43.8	83.4		
			+ 2.10	
	180.9			
	220.6	39.7		
	5.0	34.0		
	39.0	73.7		
			+ 2.39	+ 2.31 -
	275.3			
	310.2	34.9		
	94.8	34.9		
	129.7	69.8		
			+ 2.51	
	274.0			
	312.9	38.9		
	93.0	40.0		
14:50:15	133.0	78.9		15
			+ 2.23	

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14:52:30	273.7			II
	314.2	40.5		
	90.1	42.9		
	133.0	83.4		
			+ 2.10	
	278.7			
	312.0	33.3		
	93.2	45.2		
	128.4	78.5		
			+ 2.24	+ 2.28 -5
	5.3			
	39.0	33.7		
	187.2	32.8		
	220.0	66.5		
			+ 2.62	
	3.1			
	41.9	38.8		
	182.2	43.2		
15:02:15	225.4	82.0		
			+ 2.14	

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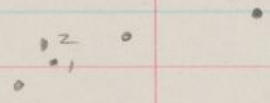
1928phae.proj..666C

15:03:30	-0.9			II
	45.3	46.2		
	178.4	46.0		
	224.4	92.2		
			+1.86	
	8.2			
	40.0	31.8		
	185.3	34.7		
	220.0	66.5		
			+2.62	+2.26 -5
	93.6			
	130.7	37.1		
	276.0	35.9		
	311.9	73.0		
			+2.41	
	91.8		+2	
	133.2	41.4		
	273.3	40.7		
15:13:55	314.0	82.1		
			+2.13	

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5:39 Comet found in following position (1)



5:52 Motion certainly detected. In position (2)

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1928phae.proj..666C

Monday 30 December 1929

15" Equat

Comet Wilk

at ρ^4 $3^2 40$ S.T. by Walsh I. Comet was seen to cross a star nearly centrally (just a little to the south of the star.

BD

BD star at XIX 5^2 —
+ 23° 30' ±

Comet visible in 2" finder & 6" Post telescope. Magnitude estimated as a little fainter than the above BD. star. In finder appears like very faint star in bad seeing.

In 15" comet was usual hazy patch but very conspicuous. Tail and nucleus sometimes suspected.

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Fri. Mar. 14 - 1930

12" Polar Phot T.

EST (Noon)

SZ Pavonis

RC Obs.
R.V.A Rec.

7h 52m.3

Index left		
351.1	var diss	
40.8	49.7	
179.1	401	
219.2	89.8	- 1.92
		- 1.82
355.9		
36.8	40.9	
171.2	566	
227.8	97.5	- 1.72
		Mean = - 1.56
Index right		
73.8		
141.4	67.6	
260.6	511	
311.7	118.7	- 122
		- 131
86.6		
133.8	47.2	
252.7	697	
316.4	110.9	- 1.40

8 02.4

7 57.4

Decl +18°.4

S.T 7h 37m

H.A 3 11 West

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1928phae.proj..666C

Thurs. Mar. 20 – 1930

12" Polar.

E.S.T.	☽ S Z Tauri	comp + =	Plate 7
Noon	Index Left		L V R Cir
			2 C Rec
7: 30: 30	120.8 < Vis dir		
	21[illegible]	47.9	I
	~~33.5~~ < Rev. Imag.	37.2	
	355.3	85.1 – 20.5	
	32.5		
	168.5	– 1.74	
	218.9 < Rev Imag.	50.1	
	351.6	59.2	
	50.8	109.3 – 1.43	
	Reversed Plate		
	Index Right	Mean = –1.72	
	67.5	65.0	
	132.5 Rev Imag	47.2	
	265.3	112.2 – 1.37	
	312.5		
	87.5	– 1.71	
	124.4 < Rev Imag	36.9	
	261.4	48.3	
7: 51: 48	309.7	85.2 – 2.08	

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1928phae.proj..666C

Mar. 20-1930

$8^h 53^m 12^s$ Index Left

II

L.C.Oh

P.V.R. Rev

74.6		
138.2	63.6	
257.6	58.2	
315.8	121.8	−1.15
81.4		−1.19
139.8	58.4	
254.2	60.2	
314.4	118.6	−1.23

Mean = −1.56

Index Right

351.8		
37.2	45.4	
177.7	45.7	
223.4	91.1	−1.88
356.8		−1.92
41.8	45.0	
176.4	44.6	
$8^h 59^m 35^s$ 220.4	89.0	−1.97

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Thurs Mar 27-1930

~~AA~~

3 Spec 06:720 Mst T.

I L.V.R.Ob.
EC Rec

E.S.T.
Norm

	Index	Left Lvardis	
A 3715	3.5		
	20.3	16.8	
	189.2	23.8	
	213.0	40.6	–
	5.6		–
	16.1	10.5	
	192.5	13.1	
	205.6	23.4	–
	Index	Right	
	97.5		
	114.9	17.4	
	~~292.5~~	22.5	
	271.5	39.9	–
	2940		
	86.4		
	119.4	33.0	
	246.6	13.7	
P 5700	295.3	46.7	–

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1 Mar 27/1930.

$8^h 52^m 20$ Index R 5 Gen II Lick. Lick R Red

964		
124.6	282	
275.8	212	
297.0	494	—
93.8		
121.2	274	
269.6	292	
298.8	566	—

Index L

187.6		
2065	189	
8.8	172	
26.0	361	—
190.2		
204.4	142	
4.4	230	
27.4	372	—

δ SJ Leo

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Mar 27/1930

IV

RVR Cha

RC Ror

Index L

9 02 20 189.4

210.7 21.3

100 13.6

23.4 34.7

189.7

206.4 16.7 -

8.5 25.9

34.4 42.6 -

Index R

~~110.0~~

280.7

294.8 14.1

98.5 11.7

110.2 25.8 -

270.7

312.3 41.6

92.3 30.9

9 13 20 123.2 72.5 -

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1928phae.proj..666C

ζ Geminorum

Mar. 28, 1930

$7^h\ 54^m\ 30^s$	Index R		
	49.5		L.O.R. 06
	200.2	150.7	L.O.R. Rec
	223.9	156.5	
	20.4		
	41.1		
	205.4	164.3	
	234.9	142.0	
	16.9		
	Index L		
	106.5		
	130.8	24.3	
	299.5	15.0	
	314.5		
	112.6		
	130.4	17.8	
	288.5	30.5	
8 19 50	318.0		

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1928phae.proj..666C

ζ Geminorum

Mar. 28, 1930

	Index R		
8 28 25	103.5		L.V.R. Obs.
	135.7		L.V.R. Rec.
	297.2		
	308.9		
	112.5		
	131.5		
	283.4		
	320.0		
	Index L		
	194.5		
	235.2		
	20.3		
	40.8		
	204.5		
	223.2		
	16.5		
8 41 35	40.7		

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1928phae.proj..666C

ζ Gem
Apr. 14, 1930

8 16 48	Index R		
	290.5		L.V.R. Obs
	310.0		L.V.R. Rec
	109.2		
	132.4		
	294.2		
	310.4		
	114.1		
	134.2		
	Index R.		
	23.4		
	40.6		
	207.9		
	223.5		
	23.8		
	37.3		
	206.0		
8 32 40	225.4		

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1928phae.proj..666C

Thurs Nov 3, 1932

15" ε Eq. Plate I.

Ci Water = 1st Part at 8:56 EST (Nov)

EST (Nov) 4 Cephei 005381 I

Observer
Mr Campbell
Recorder
H.H. Blaxter

9
~~27~~ 17-50

15.1		
54.5	Lunar dis	394
176.0		698
245.8		1092 — 1.44

— 1.43

01.1		
61.9		608
192.0		489
240.9		1097 — 1.42

Plate Reversed Mean = −1.36
f.41
2.05

81.5		
151.0		695
278.9		496
328.5		1191 — 1.21

— 1.30

104.8		
148.5		437
268.9		672
336.1		1109 — 1.40

9
~~27~~ 22-41
9 20 15 14 20 15 7015 − 5976 = .1074

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1928phae.proj..666C

Nov 3, 1932

H

McElwain Obs.
Campbell Roc.

9 24 18

47.1		
158.9	71.8	
269.8	63.9	
333.7	135.7	−0.84

83.6		
149.5	65.9	−0.92
254.4	62.8	
347.2	128.7	−1.01

Rev. Phot.

		Mean =	−1.08
182.9			1.41
246.0	63.1	#	2.33
358.9	50.7		
49.6	113.8	−1.33	

		−1.24
190.3		
243.9	53.6	
1.1	67.8	
68.9	121.4	1.16

9 31 45
03

14 28 02

7015.602 f
7046

−1018

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1928phae.proj..666C

Nov. 3, 1932

II
R.C. Cobs.
NC Elwain Roc

9: 33: 55	190.1		
	242.4	523	
	7.9	48.3	
	56.2	100.6	− 164
	192.7		
	241.3	48.6	160
	4.1	548	
	58.9	1034	−1.57

Revs. Plot — Mean = −1.34

	279.1		.641
	335.2	561	7.07
	84.4	221	
	156.5	128.2	− 102
	275.0		
	337.1	621	1.08
	92.2	607	
9: 37: 28	152.9	1228	−1.13

14 35 48

7015 − 6048

967

−.0965

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1928phae.proj..666C

Nov. 3, 1932

IV.

Blanter Obs.
McClintock Obs.

9:39:40	89.0		
	156.0	67.0	
	278.8	58.0	
	336.8	125.0	− 108
			− 111
	83.7	66.3	
	150.0	56.1	
	285.0	122.4	− 114
	341.1		
	Good Plot		mean − 120
	186.1		Dec
	232.6	46.5	6
	350.9	61.4	
	52.3	107.9	− 147
			1.29
	165.3		
	243.4	78.1	
	0.8	45.6	
9:46:52	46.4	123.7	− 111

32

14 43 15
7015.6134
7046
−.0912

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1928phae.proj..666C

Nov 3

Campbell Obs,
Blaxter Rx.

9-48-45	193.5		
	246.5	53.0	
	7.9	46.6	
	54.5	99.6	167
	189.9		1.59
	244.0	54.1	
	8.1	52.1	
	60.2	106.2	1.51

Rzo. Photo.

Mean = 1.40
~~of cr~~
201

	275.5		
	340.5	65.0	
	100.2	49.8	
	150.0	114.8	1.31
	278.0		1.22
	332.5	54.5	
	86.0	69.0	
9-54-02	155.0	123.5	1.12

14 51 23

~~30~~15-6191
20+6

~, of 55

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1928phae.proj..666C

Nov. 3/1932

VI

McElwain-Obs
Blaxter-Rec.

9-50-39

	271.1		
	334.3	63.2	
	75.8	70.4	
	146.2	133.6	− 090
			− 1.06
	270.1		
	331.3	61.2	
	91.2	58.0	
	149.2	119.2	− 1.21
	Rev. Photo.	Mean	− 1.13
			7.29
	10.2		
	60.6	50.4	
	168.2	72.6	
	240.8	123.0	− 113
			− 120
	5.1		
	71.7	66.6	
	185.2	49.5	
10-01-13	234.7	116.1	− 128

111 52

11 55 56

7015.6222

7046

0824

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1928phae.proj.. 6666

Nov 3/1932

~~III~~

Campbell Obs.
W. Ellwain Lee

10:02:25	358.4		
	61.3	62.9	
	193.8	40.3	
	234.1	103.2	− 1.5f
	11.8		−1.55
	55.5	43 7	
	181.9	59 9	
	240.8	103.6	− 1.54
	Rev. Plot		Mean = − 1.32
			~~+.41~~
			7.09
	86.0		
	160.1	741	
	281.0	513	
	332.3	125.4	− 1.0f
	94.8		− 1.0f
	152.0	572	
	273.4	687	
10:06:48	342.1	125.9	− 1.07

15 04 35

7015.692

7046

−.076

1928phae.proj..666C

Nov. 3, 1932

VIII

10 ~~CA~~ 40 106.2 — Slauter Obs. CC Roe
149.0 42.8
267.5 69.5
337.0 112.3 — 136

90.2 — 122
163.9 73.7
280.1 50.9 — 109
331.0 124.6

Reverse Phtm Moon = 1.33
~~1950~~ 1.41
~~22~~ 108

189.0
233.5 44.5
5.9 67.0
72.9 111.5 — 138

190.1 — 144
~~2~~ 50.0 57.9
10 18 45 ~~6A~~ 49.2
~~10 19 5~~ 56.0 107.1 — 149

15 13 41
7015.6345
7016
-.0701

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Nov. 3, 1932

IX

Campbell-Obs
Blaxter-Rec.

10-19-28	187.1		
	245.1	58.0	
	8.8	49.0	
	57.8	107.0	− 149
	190.5		− 1.43
	241.9	51.4	
	0.0	60.8	
	60.8	112.2	− 137

Rzo. Photom. Mean − 1.28
+41
− 120

	279.0		
	334.0	55.0	
	84.5	72.5	
	157.0	127.5	− 103
	166.8		− 0.99
	342.5	75.7	
	98.0	55.5	
10-24-41	153.5	131.2	= 095

x4 09

17 22 03

7015.6403

2046

− 0643

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Nov 3, 1932

X
L C. Ch
Obs. Rec

10 44 24

	275.0		
	~~351.5~~		
	337.5	625	
	100.2	596	
	159.8	122.1	= 117
	274.4		1.24
	333.3	579	
	98.2	562	
	154.4	115.1	− 130

Reverse Photom. Mean = − 1.38

	2.1	
	56.6	545
	190.2	542
	244.4	108.7

− 1.48

− 1.52

	12.2		
	68.4	562	
	191.8	461	
10 49 18	237.9	102.3	− 160

13 42

15 46 50

7015.6574

7042

1.0472

Cs watch = 1ˢ fast at 10:58:00

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Tues. Sept. 5, 1933

ES T. 15" E. Eq. Rad T.

RS of h 174 vol

PA 0° Comp with S.2 just South of RS.

> 25" 154 d < RS dri

236.3	d 15"		
332.3	777		
580	15 S.2	−0.40	
1592		−038	
2372	780		
3333	d 31		
564	1641.1	−0.36	

PA. 180° Mean = 0.44

240 K			d.76
3206	d 02		
65")	77 d		
1435"	1580	−042	
		−057	
253.3	d 22		
315"			
685	677		
> 32	136.3	1570	−057

> 28

1228

> 321.

Copied from Memo

1928phae.proj..666C

Sept. 5 – 1933

L.S.C.

RV Cyl Cat.

	P.G. 180		
7 40	1373	701	
	67.2	709	
	315.2	1410	– 0.75
	2463		
	1651		
	609	84.9	– 0.49
	325.2	69.2	
	2420	168.1	– 022
			Mean = – 0.62
	P.G. 0		Magn. 8.38
	47.4	762	
	331.2	733	
	229.2	1495	– 054
	135.7		
	4073	69.4	– 0.76
	338.1	62.0	
	221.0		
7 48	154.1	131.4	– 091
7 44			
7 321			

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1928phae.proj..6660

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1928pnae.proj..0000

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