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KG
11366
v. 253

Meridian Photometer.

No 12.

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Tuesday, April 14, 1908

Series V 5

J.D. 8046 = V 5

δ 39.8	I Set.	57.1	90 42	
	253.9	118.0	118.0	
	41.9	90.0	90.0	
	31.8	208.0	208.0	
	121.8	-0.54	-0.54	✓
δ 40.8		57.0	90 42	
	213.4	84.5	84.5	
	297.9	104.9	104.9	
	259.1	189.4	189.4	
	34.0	-0.18	-0.18	✓
δ 44.6	H.R. 3390	68.1	46 39	
	115.0 2219	69.3	69.3	
	292.0 291.2	90.0	90.0	
	295 298.0	159.3	159.3	
	29.0 28.0	+0.39	+0.39	✓
δ 47.8		69.0 70.3	46 40	
	119.6 118.6	89.4	89.4	
	210.2 208.0	72.8	72.8	
	217.8	162.2	162.2	
	290.6	+0.34	+0.34	✓
δ 50.3	H.R. 3404	72.9	39 38	
	41.1	66.5	66.5	
	107.6	88.6	88.6	
	120.2	155.1	155.1	
	206.8	+0.48	+0.48	✓

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8 51.2 H.R. 3404 73.4 39 38

301.9	85.9	85.9
27.8	66.7	66.7
40.3	152.6	152.6
107.0	+0.52	+0.52 ✓

8 55.5 H.R. 3413 73.0 50 47

211.1	84.9	84.9
296.0	120.1	120.1
251.8	205.0	205.0
41.9	-0.48	-0.48 ✓

8 56.1 73.3 50 47

109.7	104.7	104.7
91.4	85.8	85.8
209.6	190.5	190.5
296.4	-0.20	-0.20 ✓

9 00.9 H.R. 3417 66.7 73 12

8 39.5 / 27.4 / .29 / 2466 / 548 / 7.9

46.2	~~69.7~~ 70.7	7.9 / 58.8	-72 70.7 56 / -16
110.9	99.1		99.1
1.48	168.8 9		169.8
213.9	+0.19 ~~+0.21~~		+0.19 ✓

9 01.7 66.9 73 12

297.0	94.9	94.9
31.9	69.9	69.9
42.8	164.8	164.8
112.7	+0.29	+0.29 ✓

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J.D. 8046 = v-5

9 05.1	HR 3443	72.3	60 12
	222.1	61.8	61.8
	283.9	96.9	96.9
	295.0	158.7	158.7
	31.9	+0.41	+0.41 ✓
9 05.9		72.8	60 12
	122.7	88.4	88.4
	211.1	70.4	70.4
	217.6	158.8	158.8
	28.0	+0.40	+0.40 ✓
9 09.2	HR. 3448	78.1	52 59
	35.1	83.9	83.9
	119.0	114.5	114.5
	104.1	198.4	198.4
	218.6	-0.35	-0.35 ✓
9 09.8		78.4	52 58
	257.2	111.6	111.6
	38.6	92.1	92.1
	29.7	203.7	203.7
	121.8	-0.45	-0.45 ✓
9 12.2	H.R 3453 ~~3020~~	81.1	48 57
	212.3	79.1	79.1
	291.4	104.8	104.8
	288.4	183.9	183.9
	33.2	-0.07	-0.07 ✓

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9 13.3	HR. 3453 ~~4020~~	81.4	48 51
	111.9	104.8	104.8
	215.9	79.3	79.3
	213.0	184.1	184.1
	292.3	-0.08	-0.08 J
9 18.5	HR. 3706°	60.1	54 04
13.8	50.2	58.0 2.8	-5.9 58.0 58
4.7	108.2	57.3 85.4²	85.2 -6
.59	122.4	143.2	143.2
423	207.6	+0.71	+0.71 J
235			
28			
9 19.4		60.5	54 04
	301.8	86.0	86.0
	278	62.9	62.9
	42.1	148.9	148.9
	105.0	+0.60	+0.60 J
9 20.8	HR. 3708	61.2	51 09
	214.6	75.6	75.6
	290.2	99.9	99.9
	293.8	175.5	175.5
	33.7	+0.08	+0.08 J
9 21.6		61.9	51.09
	114.0	99.8	99.8
	213.8	86.0	86.0
	210.2	185.8	185.8
	296.2	-0.11	-0.11 J
	834.2		

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J.D. 8046 = v⁵

9 25.3 — H.R. 3713 — 61.6 — 66 d2

39.6	15.7	33.8	7 65.9	75.9 −66	158.4 0.41
36.3	9.6	109.7	86.7	86.7	145.2 0.67
42.8	.40	120.6	6 152.6	162.6	171.2 0.17
43.9	8840	207.3	+0.33 +0.52	+0.33 J	175.6 0.08
		471.4			
		831.4			

9 26.0 — 62.0 — 66 d2

44.1	299.3	88.5	88.5	176.4 0.07
44.4	27.8	64.9	64.9	177.6 0.05
32.4	41.0	153.4	153.4	129.6 0.99
32.5	105.9	+0.51	+0.51 J	130.0 0.98
	474.0			
	834.0			

9 28.5 — H.R. 3715 — 68.7 — 31 16

	223.0	62.1	62.1	833.6
	285.1	78.8	78.8	208.4
	303.1	140.9	140.9	45
	21.9	+0.76	+0.76 J	253.4
	833.1			843.4
				168.4
				73.4

9 29.2 — 69.1 — 31 14

127.8	74.4	74.4	
202.2	66.3	66.3	
221.8	140.7	140.7	
288.1	+0.76	+0.76 J	

9 31.7 — H.R. 3717 — 67.6 — 54 49

37.0	73.6	73.6	
110.6	89.1	89.1	
120.7	162.7	162.7	
209.8	+0.33	+0.33 J	

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9 32.5	HR. 3717	67.8	54 49
	295.9	102.1	102.1
	38.0	67.5	67.5
	413	169.6	169.6
	108.8	+0.20	+0.20
9 34.3	HR. 3726	70.4	41 48
	209.2	91.6	91.6
	300.8	106.0	106.0
	291.9	197.6	197.6
	37.9	−0.33	−0.33
9 35.0		71.0	41 48
	115.2	103.8	103.8
	219.0	96.1	96.1
	207.3	199.9	199.9
	303.4	−0.38	−0.38
9 38.0	HR. 3729	73.6	39 20
	39.7	63.7	63.7
	103.4	81.9	81.9
	126.0	145.6	145.6
	207.9	+0.66	+0.66
9 38.6		74.1	39 21
	302.6	84.1	84.1
	26.7	67.2	67.2
	39.7	151.3	151.3
	106.9	+0.75	+0.55

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J.D. 8046 = v^5

9 40.6	H.R. 3730	74.1	45' 41
	212.1	80.5	80.5
	292.6	110.6	110.6
	285.3	191.1	191.1
	38.9	-0.21	-0.21 ✓
9 41.2		74.4	45' 41
	117.2	100.8	100.8
	218.0	82.4	82.4
	213.9	183.2	183.2
	296.3	-0.06	-0.06 ✓
9 47.2	H.R. ~~3739~~ 3742	70.3	61 22
20.9	36.1	75.0 12.6	75.0 -61 7
26.3		57.7	-15
.48	111.1	108.5	108.5
2104	109.8	173.5	183.5
1052	218.3	~~+0.12~~ -0.06	-0.06 ✓
12.6			
9 48.0		70.8	61 22
	298.0	98.1	98.1
	36.1	76.8	76.8
	34.2	174.9	174.9
	111.0	+0.09	+.009 ✓
9 49.6	H.R. 3752	70.8	61 42
	212.7	85.1	85.1
	297.5	101.2	101.2
	296.0	186.3	186.3
	37.2	-0.12	-012

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9 50.3	HR 3752	71.1	61 41
	113.4	104.4	104.4
	217.8	92.2	92.2
	2037	196.6	196.6
	2959	-0.32	-0.32 J
9 52.5	HR. 3756	82.0	34 40
	42.8	64.1	64.1
	106.9	81.4	81.4
	122.8	145.5	145.5
	2042	+0.66	+0.66 J
9 53.		82.	34 35
	3330 (?)	53.8	83.8
	96.8	64.3	63.3
	42.8	148.1	147.1
	1061	+0.61	+0.63 J
9 55.7	H.R. 3761	71.7	64 48
	2163	73.5	73.5
	2898	97.7	97.7
	2956	171.2	171.2
	333	+0.17	+0.17 J
9 56.7		72.0	64 48
	123.3	86.1	86.1
	209.4	77.4	77.4
	213.6	163.5	163.5
	291.0	+0.31	+0.31 J

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J.D. 8046 = 5

9 58.7	HR. 3955	58.4	52 53
	41.4	67.6	67.6
	109.0	96.9	96.9
	116.4	164.5	164.5
	212.9	+0.29	+0.29 ✓
9 59		58.9	52 52
	294.8	98.9	98.9
	33.7	70.4	70.4
	39.7	169.3	169.3
	110.1	+0.20	+0.20 ✓
10 02.9	HR 3957	60.2	56 52
	217.4	70.6 (1 4) &	71.4
	288.6	93.8	93.8
	295.0	164.4 (5 2)	165.2
	28.8	+0.30 (28)	+0.28 ✓
10 03.7		60.7	56 52
	119.7	92.5	92.5
	212.2	71.1	71.1
	220.0	163.6	163.6
	291.1	+0.31	+0.31 ✓
10 06.4	HR. 3964	63.7	46 09
	38.2	73.7	73.7
	111.9	99.7	99.7
	113.1	173.4	173.4
	212.5	+0.13	+0.13 ✓

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10 07.0	H.R. 3964	64.1	46 10
	288.2	108.7	108.7
	36.9	72.6	72.6
	42.3	181.3	181.3
	114.9	−0.02	−0.02
10 09.8	H.R. 3966	63.8	59 43
	217.0	76.1	76.1
	293.1	101.5	101.5
	297.3	177.6	177.6
	38.8	+0.05	+0.05
10 10.8		64.3	59 44
	122.8	91.3	91.3
	214.1	72.3	72.3
	219.2	163.6	163.6
	291.5	+0.31	+0.31
10 13.5	H.R. 3967	65.3	61 43
	42.3	64.0	64.0
	106.3	82.6	82.6
	124.2	146.6	146.6
	206.8	+0.64	+0.64
10 14.3		65.8	61 42
	305.2	82.1	82.1
	27.3	59.8	59.8
	46.2	141.9	141.9
	~~106.0~~	+0.74	+0.74

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J.D. 8046 = v.5

90 15.1	H.R. 2~~18~~ 3971		65.7	61 29
		218.8	73.4	73.4
		292.2	103.0	103.0
		292.9	176.4	176.4
		35.9	+0.07	+0.07
10 16.0			66.0	61 29
		118.2	92.6	92.6
		210.8	71.2	71.2
		220.8	163.8	163.8
		292.0	+0.31	+0.31
10 17.3	H.R. 3978		67.9	51 43
		44.8	59.5	59.5
		104.3	83.0	83.0
		122.2	142.5	142.5
		205.2	+0.72	+0.72
6 18.1			68	51 43
		300.8	83.2	83.2
		24.0	60.8	60.8
		46.1	144.0	144.0
		106.9	+0.69	+0.69
10 20.1	H.R. 4001		65.3	41 12
		213.6	82.2	82.2
		295.8	108.0	108.0
		289.2	~~189.2~~ 190.2	190.2
		37.2	−0.17 9	−0.19

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10 20.9	HR 4001	69.0	41 12
	119.0	94.4	94.4
	213.4	81.1	81.1
	215.3	175.5	175.5
	2964	+0.08	+0.08
10 24.0	HR. 4002	64.9	68 19
	36.2	80.6	80.6
	116.8	97.8	97.8
	117.0 (2)	178.4	178.4
	214.8	+0.03	+0.03
10 24.9		65.2	68 19
	292.4	102.4	102.4
	34.8	83.4	83.4
	29.8	185.8	185.8
	113.2	−0.11	−0.11
10 26.4	HR. 4007	68.1	58 28
	216.3	72.5	72.5
	288.8	91.5	91.5
	298.7	164.0	164.0
	30.2	+0.30	+0.30
10 27.3		68.4	58 28
	122.0	91.3	91.3
	213.3	71.1 x3	71.3
	218.8	162.4 x6	162.6
	2901	+0.32 3	+0.32 3

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J.D. 8046 = v⁵

10 29.0	H.R. 4009	69.4	57 42
	34.6		
	115.1	80.5	80.5
	115.8	102.0	102.0
	217.8	182.5	182.5
		-0.05	-0.05 ✓
10 29.8		69.7	57 42
	289.7		
	41.3	111.6	111.6
	33.8	82.4	82.4
	116.2	194.0	194.0
		-0.27	-0.27 ✓
10 31.8	H.R. 4010	72.8	51 51
	220.1		
	290.6	70.5	70.5
	300.1	87.5	87.5
	27.6	158.0	158.0
		+0.42	+0.42 ✓
10 32.6		73.2	51 57
	118.1	95.8	95.8
	213.9	77.0	77.0
	213.7	172.8	172.8
	290.7	+0.14	+0.14 ✓
10 34.5	H.R. 4018	70.9	59 39
	35.0	76.7	76.7
	111.7	99.1	99.1
	115.0	175.8	175.8
	214.1	+0.08	+0.08 ✓

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1908phae.proj.1255.

10 35.1	HR. 4018	71.1	59 39
	292.9	93.3	93.3
	96.2	76.6	76.6
	40.7	169.9	169.9
	117.3	+0.19	+0.19 ✓
10 35.9	HR. 4043	69.9	59 32
	219.8	68.4	68.4
	288.2	97.1	97.1
	294.6	165.5	165.5
	31.7	+0.27	+0.27 ✓
10 36.8		70.1	59 36
	115.3	95.7	95.7
	211.0	74.5	74.5
	217.2	170.2	170.2
	291.7	+0.19	+0.19 ✓
10 38.6	HR. 4045	75.8	50 51
	37.8	70.6	70.6
	108.4	83.8	83.8
	122.7	154.4	154.4
	206.5	+0.49	+0.49 ✓
10 39.3		76.1	50 57
	297.0	95.0	95.0
	32.0	64.4	64.4
	42.8	159.4	159.4
	107.2	+0.39	+0.39 ✓

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J.D. 8046 = r[5]

10 42.0	H.R. 4056	82.0	41 22
	220.0	68.8	68.8
	288.8	87.5	87.5
	301.9	156.3	156.3
	29.4	+0.45	+045 ✓
10 42.8		82.6	41 22
	121.0	82.9	82.9
	203.9	69.5	69.5
	219.9	152.4	152.4
	289.4	+0.53	+0.53 ✓
10 46.7	H.R. 4228	59.4	59 22
	38.3	75.4	75.4
	113.7	97.1	97.1
	114.7	172.5	172.5
	211.8	+0.14	+014 ✓
10 47.4		59.9	59 22
	291.8	102.4	102.4
	34.2	75.9	75.9
	33.9	178.3	178.3
	109.8	+0.03	+003 ✓
10 49.0	H.R. 4239	60.1	58 48
	210.9	83.5	83.5
	294.4	104.5	104.5
	292.6	188.0	188.0
	37.1	−0.15	−0.15 ✓

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10 49.6	HR 4239	60.3	58 49
	112.6	101.2	101.2
	213.8	78.4	78.4
	216.8	179.6	179.6
	295.2	+0.01	+0.01
11 51.2	H.R. 4263	58.9	41 40
	36.0	75.9	75.9
	111.9	97.6	97.6
	116.4	173.5	173.5
	214.0	+0.12	+0.12
11 52.5		59.8 ~~59.4~~	41 40
	~~214.1~~ 31.1	85.3	85.3
	116.4	97.5	97.5
	116.8	182.8	182.8
	214.3	−0.05	−0.05
11 56.2	H.R. 4266	60.9	61 20
	215.8 ~~214.3~~	81.2	81.2
	297.0	100.2	100.2
	294.0	181.4	181.4
	34.2	−0.03	−0.03
11 57.0		61.2	61 20
	113.0	95.8	95.8
	208.8	72.8	72.8
	222.2	168.6	168.6
	295.0	+0.22	+0.22

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J.D 8046 = v 5

11 03.5	H.R. 4268	60-2	79 08
	44.6	59.3	59.3
	103.9	80.2	80.2
	123.0	139.5	139.5
	203.2	+0.78	+0.78 J
11 04.1		60.6	79 09
	302.3	86.9	86.9
	29.2	61.8	61.8
	42.0	148.7	148.7
	103.8	+0.60	+060 J
11 05.6	H.R. 4271	66.0	60 04
	216.1	73.9	73.9
	290.0	108.8	108.8
	290.0	182.7	182.7
	38.8	-0.05	-005 J
	/		
11 06.4		66.2	60 06
	114.9	92.4	92.4
	207.3	81.4	81.4
	213.8	173.8	173.8
	295.2	+0.12	+012 J
61.8	H.R. 4279	61.8	74 01
	37.1	71.8	71.8
	108.9	91.5	91.5
	115.4	163.3	163.3
	207.3	+0.32	+032 J

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11	09.6	H.R. 4279	61.9	74 41
		301.8	87.6	87.6
		29.4	71.3	71.3
		43.9	158.9	158.9
		115.2	+0.40	+0.40
11	15.4	~~H.R. 4290~~ Oct.	55.6	90 27
		26.0 ~~282.9~~	89.4	89.4
		115.4	104.5	104.5
		109.8	193.9	193.9
		214.3	-0.26	-0.26
12	16.0		55.5	90 26
		285.8	109.4	109.4
		35.2	81.4	81.4
		33.2	190.8	190.8
		114.6	-0.20	-0.20

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1908phae.proj.1255.

Wednesday May 13th 1908.

~~Sonnes 105~~ ~~A.D. 8075 = 85~~ 5

11. 34.8	T Octantis	55.5	90 ~~20~~
	208.0		
	295.0		
	288.8		
	36.1		
	~~118.0~~		
11 40.0		55.5	90.20
	118.0		
~~11 40.0~~	212.0	~~55.5~~	~~90 20~~
	208.5		
	294.8		
11 49.3	H.R. 4509	60.4	78 50
	46.1		
	102.9		
	119.4		
	208.0		
11 51.9		60.7	78.50
	300.5		
	21.8		
	47.2		
	101.8		
11 58.5	H.R 4513	68.4	62 0
	205.5		
	304.0		
	283.1		
	44.4		

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1908phae.proj.1255.

May 13th 1908

12 00.7	H.R. 4573	69.2	62 0
	108.6		
	225.1		
	201.0		
	305.2		
12 10.0	H.R. 4526	73.8	57.20
	32.9		
	119.1		
	109.8		
	216.9		
12 12.1		75.2	57.20
	288.0		
	35.1		
	33.5		
	120.5		
12 18.3	H.R. 4614	65.5	68.5
	217.2		
	288.0		
	298.1		
	28.1		
12 20.0		66.0	68 5
	120.5		
	210.6		
	224.8		
	290.4		

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1908phae.proj.1255.

May 13th 1908.

12 24.0	H. R. 1634	68.2	60 43
	41.0		
	108.5		
	117.0		
	215.2		
12 25.6		68.8	60 43
	293.8		
	30.5		
	38.5		
	109.6		
12 29.5	H. R. 1637	72.4	52 18
	228.4		
	279.8		
	313.6		
	15.4		
12 31.5		74.0	52. 18
	132.6		
	194.7		
	231.0		
	276.0		

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1908phae.proj.1255.

Monday June 15, 1908.

J.D. 8108 = W 5

Sirius 21.5

13 47.9	σ Octantis	64.2	89.56
	31.8	79.7	79.7
	111.5	102.9	102.9
	112.2	182.6	182.6
	215.1	-0.05	-0.05 ✓
	~~296.4~~		
13 52.5		64.2	89 56
	296.4		
	36.2	99.8	99.8
	32.0	81.4	81.4
	113.4	181.2	181.2
		-0.02	-002 ✓
14 00.0	H.R. 5281	61.0	59 15
	219.0	66.9	66.9
	285.9	94.9	94.9
	299.0	161.8	161.8
	33.9	+0.35	+0.35 ✓
14 07.0		62.6	59 15
	117.8	89.4	894
	207.2	63.9	63.9
	222.1	153.3	153.3
	286.0	+0.51	+0.51 ✓
14 13.6	H.R. 5286	69.0	4236
13 58.5	36.6	70.2	70.2
15.1	106.8	86.3	86.3
.74	121.1	156.5	156.5
604	207.4	+0.45	+0.45 ✓
10 57			
11.2			

112 / 57.8

-42 29 / -7

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1908phae.proj.1255.

June 15th 1908.

J.D. 8108 = w^5

14 16.0			70.5⁻	42 36	
	293.4		99.7	99.7	
	33.1		70.7	70.7	
	39.9		170.4	170.4	
	110.6		+0.18	+0.18 ✓	
14 20.7	H.R. 5289.		67.9	62 45⁻	
13 59.0	220.9		69.6 10.0 57.9	69.6 −62 87	
21.7	290.5⁻		79.3	79.3	−8
.46	307.2		148.9	148.9	
1302	26.5⁻		+0.60	+0.60 ✓	
868					
10.0					
14 22.5⁻			68.9	62 45⁻	
	122.9		82.2	82.2	
	205.1		56.2	56.2	
	226.9		138.4	138.4	
	283.1		+0.81	+0.81 ✓	
14 26.6	H.R. 5292		71.1	58 48	
0.1	40.8		72.2 13.8 57.3	72.2	41
26.5	113.0		81.1	81.1	−7
.52	124.0		153.3	153.3	
530	205.1		+0.51	+0.51 ✓	
1325					
13.78					
14 28.5⁻			72.9	58 53⁻	
	302.8		83.0	83.0	
	25.8		61.7	61.7	
	39.4		144.7	144.7	
	101.1		+0.68	+0.68 ✓	

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Assume. b
−42° 9235, 6.8

June 15. 1908

1H	33.0	HR 5294	73.5	42	36	
12.3 b / 20.7 / .74 / 828 / 1449 / 15.3	1.1 a / 31.9 / .73 / 957 / 2233 / 23.3	205.9 289.5 289.1 34.1	83.6 23.3 a / 50.2 105.0 188.6 −0.16 15.3 b / 58.2	83.6 105.0 188.6 ✓ −0.16	−42 52 a / +16 −42 29 b / −7	
1H	35.0		75.0	42	36	
		106.5 213.6 215.9 298.1	107.1 82.2 189.3 −0.17	107.1 82.2 189.3 −017 ✓		

Assume. b
−69° 1945, 7.3.

1H	40.0	HR 5295	79.0	69	28	
13 43.2 b / 56.8 / .35 / 2840 / 1704 / 19.9	0.8 a / 39.2 / .36 / 2352 / 1176 / 14.1	36.0 116.3 116.0 211.3	80.3 14.1 a / 67.9 95.3 175.6 +0.08 19.9 b / 59.1	80.3 95.3 175.6 +0.08 ✓	8 a / −20 −69 26 b / −2	
1H	42.0?		79.2	69	28	
43.2 / 58.8 / .35 / 2940 / 1764 / 20.6		113.0 207.0 214.4 281.5	94.0 20.6 / 58.6 67.1 161.1 +0.36	94.0 67.1 161.1 +0.36 ✓		
1H	46.5	HR 5461	66.5	56	00	
31.5 / 15.0 / .56 / 900 / 750 / 8.4		43.6 107.9 124.1 206.0	64.3 8.4 / 58.1 81.9 146.2 +0.65	64.3 81.9 146.2 +0.65 ✓	−55 54 / −6	

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June 15, 1908.

J.D. 8108 = W 5

14 51.1		68.9	56 00	
	303.5	80.4	80.4	
	23.9	70.2	70.2	
	37.1	150.6	150.6	
	107.3	+0.56	+0.56 ✓	
14 55.0	HR 5465	69.4	58 15	
	217.5	68.7	68.7	
	286.2	86.3	86.3	
	301.9	155.0	155.0	
	28.2	+0.48	+0.48 ✓	
14 56.5		69.9	58 15	
	121.1	87.1	87.1	
	208.2	69.0	69.0	
	218.3	156.1	156.1	
	287.3	+0.46	+0.46 ✓	
15 00.1	HR 5486	70.0	58 10	
	36.4	70.1	70.1	
	106.5	88.4	88.4	
	117.0	158.5	158.5	
	205.4	+0.41	+0.41 ✓	
15 02.0		71.0	58 10	
	297.4	91.7	91.7	
	29.1	65.1	65.1	
	44.0	156.8	156.8	
	109.1	+0.44	+0.44 ✓	

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June 15. 1908

15 06.5	H.R. 5494	77.5	47 09
	214.1	80.5	80.5
	294.6	105.1	105.1
	293.0	185.6	185.6 ✓
	38.1	-0.11	-0.11
15 08.0		78.3	47 09
	110.1	105.0	105.0
	215.1	78.8	78.8
	213.0	183.8	183.8 ✓
	291.8	-0.07	-0.07
15 16.5	H.R. 5661 ~~5198~~	62.5	60 30
	35.2	74.7	74.7
	109.9	102.1	102.1
	115.7	176.8	176.8
	217.8	+0.06	+0.06 ✓
15 18.0		63.2	60 30
	290.4	102.0	102.0
	32.4	78.7	78.7
	32.5	180.7	180.7 ✓
	111.2	-0.01	-0.01
15 20.6	H.R. 5663	67.0	47 40
	210.9	78.0	78.0
	288.9	97.9	97.9
	298.0	175.9	175.9
	35.9	+0.08	+0.08 ✓

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June 15. 1908.

J.D. 8108 = 5

15 22.1		68.0	47 40	
	120.5	94.4	94.4	
	214.9	78.7	78.7	
	212.5	173.1	173.1	
	291.2	+0.13	+0.13 ✓	
15 27.0	HR. 5668	71.4	43 07	
	29.5	87.4	87.4	
	116.9	91.4	91.4	
	115.0	178.8	178.8	
	206.4	+0.02	+0.02 ✓	
15 28.5		72.2	43 07	
	296.0	88.5	88.5	
	24.5	85.9	85.9	
	34.9	174.4	174.4	
	117.8	+0.11	+0.11 ✓	
15 32.5	HR 5684	68.0	67 10	
	225.6	70.4	70.4	
	295.4	92.6	92.6	
	300.4	163.0	163.0	
	33.0	+0.32	+0.32 ✓	
15 34.5		68.5	67 10	
	114.1	93.9	93.9	
	208.0	68.6	68.6	
	223.9	162.5	162.5	
	292.5	+0.33	+0.33 ✓	

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June 15. 1908

15 37.5	HR 5713	67.8	68 05
	35.4	70.4	70.4
	105.8	96.3	96.3
	116.8	166.7	166.7
	213.1	+0.25	+0.25 J
15 39.4		68.2	68 05
	299.5	96.4	96.4
	35.9	73.9	73.9
	37.6	170.3	170.3
	111.5	+0.18	+0.18 J
15 40.0	∇ Octantis	56.2	89 35
	212.2	79.7	79.7
	291.9	106.4	106.4
	291.5	186.1	186.1
	37.9	−0.11	−0.11 J
15 46.5		56.2	89 35
	111.4	103.4	103.4
	214.8	86.1	86.1
	210.4	189.5	189.5
	296.5	+0.18	−0.18 J

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1908phae.proj.1255.

Series x 5⁻ ∇ Tuesday June 16. 1908. J.D. 8109 = x⁵

13 12.0	χ Octantis	55.8	89. 5⁻	
	32.5	77.9	77.9	
	110.4	110.7	110.7	
	107.2	188.6	188.6	
	217.9	−0.16	−0.16 ✓	
13 13.7		55.8	89. 5⁻	
	291.4	104.5	104.5	
	35.9	73.2	73.2	
	37.3	177.7	177.7	
	110.5⁻	+0.04	+0.04 ✓	
13 16.5⁻	HR 5024	60.0	59 15⁻	
12.7 / 3.8 / .51 / .38 / 1.90 / 1.9	222.0	67.6 1.9 / 58.1	67.6 −59 7 / −8	
	289.6	93.9	93.9	
	295.0	161.5	161.5	
	28.9	+0.35	+0.35 ✓	
13 18.0		60.6	59 15⁻	
	111.8	98.1	98.1	
	209.9	73.9	73.9	
	216.0	172.0	172.0	
	289.9	+0.15	+0.15 ✓	
13 21.5⁻	H.R. 5029	63.8	46 15⁻	
	29.4	82.5	82.5	
	111.9	102.9	102.9	
	111.2	185.4	185.4	
	214.1	−0.10	−0.10 ✓	

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1908phae.proj.1255.

June 16. 1908

13 23.

65.0 46 18

298.2 96.8 96.8
35.0 82.4 82.4
31.9 179.2 179.2 J
114.3 +0.02 +0.02

13 30.5 H.R. 5030 63.0 71 39

13.6 74.6 5.4 74.6 - 71 29
16.9 57.6 -10
.32 216.3 96.6 96.6
338 290.9 171.2 171.2
507 298.4 +0.17 +0.17 J
5.4 35.0

13 32.0 63.5 71 39

115.9 96.9 96.9
212.8 70.2 70.2
214.9 167.1 167.1
285.1 +0.24 +0.24 J

13 48.6 H R 5171 62.8 61 90

38.5 45.2 56.1 4.7 56.1 61 58
10.1 58.1
.47 101.3 77.3 77.3
707 124.5 133.4 133.4
404 201.8 +0.91 +0.91 J
4.7

13 50.0 63.5 61 95

38.5 310.8 73.0 73.0 61 58
23.8 50.0 50.0
45.2 123.0 123.0 J
95.2 +1.13 +1.13

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June 16. 1908.

J.D. 8709 = χ^5

13 52.4	HR 5175	66.8	49	45⁻
	211.4	80.5	80.5	
	291.9	84.9	94.9	
	294.9	165.4	175.4	
	29.8	~~+0.28~~ +0.09	+0.09 ✓	
13 53.6		67.2	49	45⁻
	111.0	99.5	99.5	
	210.5⁻	77.3	77.3	
	214.1	176.8	176.8	
	291.4	+0.06	+0.06 ✓	
13 56.2	H.R. 5194	63.0	68	55⁻
42.1	39.6	72.0 5.1	72.0 68	47
14.1	111.6	57.9		−8
.36		89.2	89.2	
846	119.4	161.2	161.2	
423	208.6	+0.36	+0.36 ✓	
5:1				
		63.4	68	55⁻
13 57.5	298.0	94.3	94.3	
	32.3	66.8	66.8	
	39.2	161.1	161.1	
	106.0	+0.36	+0.36 ✓	
14 00.0	H.R. 5209	71.5⁻	23	45⁻
	215.9	69.4	69.4	
	235.3	81.9	81.9	
	301.5⁻	151.3	151.3	
	23.4	+0.55	+0.55⁻ ✓	

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1908phae.proj.1255.

June 16. 1908

14 01.1		72.5	23 43
	127.6	70.6	70.6
	198.2	70.7	70.7
	216.4	141.3	141.3
	287.1	+0.75	+0.75 ✓
14 04.0	H.R. 5218	65.5	67 10
	36.6	76.2	76.2
	112.8	92.7	92.7
	117.9	168.9	168.9
	210.6	+0.21	+0.21 ✓
14 05.0		66.0	67 10
	295.6	97.2	97.2
	32.8	73.1	73.1
	36.2	170.3	170.3
	109.3	+0.18	+0.18 ✓
14 07.5	H.R. 5223	71.3	46 40
	211.2	82.6	82.6
	293.8	103.9	103.9
	292.2	186.5	186.5
	36.1	-0.12	-0.12 ✓
14 08.5		73.0	46 40
	112.6	102.7	102.7
	215.3	80.7	80.7
	212.3	183.4	183.4
	293.0	-0.06	-0.06 ✓

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1908phae.proj.1255.

June 16. 1908

J.D. 8109 = x⁵

14 13.0	H R 5234	73.9	54 00
	48.2	64.3	64.3
	112.3	71.8	71.8
	125.2	136.1	136.1
	197.0	+0.85	+0.85 ✓
14 14.4		74.8	54 00
	309.1	73.0	73.0
	22.1	59.0	59.0
	44.3	132.0	132.0
	103.3	+0.94	+0.94 ✓
14 17.1	H.R. 5375	59.4	~~54~~ 47 49
	214.0	79.1	79.1
	293.1	96.0	96.0
	293.3	175.1	175.1
	29.3	+0.09	+0.09 ✓
14 18.4		60.0	47 45
	112.3	93.7	93.7
	206.0	79.6	79.6
	213.0	173.3	173.3
	292.6	+0.13	+0.13 ✓
14 21.0	H.R. 5380	60.4	52 40
	34.3	72.9	72.9
	107.4	86.7	86.7
	118.3	159.6	159.6
	205.2	+0.39	+0.39 ✓

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1908phae.proj.1255.

June 16.1908.

14 22.1		61.5⁻	52 44	
	297.1	87.4	88.4	
	25.5⁻	76.4	76.4	
	33.0	163.8	164.8	
	109.4	~~+0.31~~ +.029	+0.29	✓
14 24.4	H.R. 5382	61.0	65⁻ 43	
	220.5⁻	63.7	63.7	
	284.2	86.5	86.5	
	297.3	150.2	150.2	
	23.8	+0.57	+0.57	✓
14 25.6		61.3	65⁻ 43	
	118.1	87.8	87.8	
	205.9	73.0	73.0	
	215.9	160.8	160.8	
	288.9	+0.37	+0.37	✓
14 28.1	H.R. 5389	60.1	76 15⁻	
	39.6	75.3	75.3	
	114.9	86.5	86.5	
	119.0	161.8	161.8	
	205.5⁻	+0.35	+0.35	✓
14 29.2		60.1	76 15⁻	
	294.9	85.4	85.4	
	20.3	90.6	90.6	
	39.0	176.0	176.0	
	129.6	+0.08	+0.08	✓

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June 16. 1908.

J.D. 8109 = K[5]

14 32.0	HR. 5398	68.1	41	49
	217.5	67.3 (8)	68.3	
	285.8	82.0	82.0	
	301.0	~~149.3~~ 150.3	150.3	
	23.0	+0.59 (7)	+0.57 ✓	
14 33.1		68.9	41	49
	123.4	80.5 (1)	81.5	
	204.9	65.6	65.6	
	220.3	146.1 (7)	147.1	
	285.9	+0.65 (3)	+0.63 ✓	
14 35.6	H.R. 5401	69.2	45	38
	37.2	74.6 (5)	75.6	
	112.8	89.9	89.9	
	119.8	164.5 (5)	165.5	
	209.7	+0.29 (7)	+0.27 ✓	
14 37.6		70.2	45	35
	291.8	98.7	98.7	
	30.5	85.0	85.0	
	27.2	183.7	183.7	
	112.2	-0.07	-0.07 ✓	
14 43.2	HR/5403	70.0	58	43
	220.4	64.6	64.6	
	285.0	82.6	82.6	
	302.4	147.2	147.2	
	25.0	+0.63	+0.63 ✓	

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1908phae.proj.1255.

June 16. 1908.

14 44.4		70.5	58 45
	118.2	87.0	87.0
	205.2	67.2	67.2
	217.0	154.2	154.2
	284.2	+0.49	+0.49 ✓
14 59.6	HR. 5598	59.2	71 29
	47.9	52.5	52.5
	100.4	72.8	72.8
	127.4	125.3	125.3
	200.2	+1.08	+1.08 ✓
15 00.6		59.5	71 29
	305.9	73.7	73.7
	19.6	54.4	54.4
	48.2	128.1	128.1
	102.6	+1.02	+1.02 ✓
15 03.1	HR. 5604	62.6	40 20
	43.7	62.5	62.5
	106.2	73.9	73.9
	129.2	136.4	136.4
	203.1	+0.85	+0.85 ✓
15 04.5		64.0	40 20
	305.6	73.5	73.5
	19.1	68.1	68.1
	36.2	141.6	141.6
	104.3	+0.74	+0.74 ✓

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June 16. 1908.

J.D. 8109 = K[5]

15 06.7	H.R. 5617	63.2	48 36
	212.7	88.3	88.3
	301.0	100.9	100.9
	292.0	189.2	189.2
	32.9	-0.17	-0.17 ✓
15 08.7		64.2	48 36
	116.9	93.9	93.9
	210.8	88.2	88.2
	209.8	182.1	182.1
	298.0	-0.04	-0.04 ✓
15 11.7	H.R. 5620	69.1	21 23
	33.1	79.7	79.7
	112.8	81.3	81.3
	122.7	161.0	161.0
	204.0	+0.36	+0.36 ✓
15 13.1		70.2	21 23
	306.0	76.0	76.0
	22.0	78.3	78.3
	34.5	154.3	154.3
	112.8	+0.49	+0.49 ✓
15 16.0	H.R. 5621	65.0	66 40
	209.8	83.6	83.6
	293.4	101.0	101.0
	294.5	184.6	184.6
	35.5	-0.09	-0.09 ✓

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15 17.4		65.2	66 40	
	115.0	94.8	94.8	
	209.8	83.2	83.2	
	211.8	178.0	178.0	
	295.0	+0.04	+0.04 ✓	
15 19.6	HR. 5623	67.0	63 16	
	35.3	73.7	73.7	
	109.0	92.2	92.2	
	118.0	165.9	165.9	
	210.2	+0.27	+0.27 ✓	
15 21.0		67.5	63 16	
	299.6	85.3	85.3	
	24.9	70.6	70.6	
	36.2	155.9	155.9	
	106.8	+0.46	+0.46 ✓	
15 23.4	HR 5628	65.3	72 23	
	212.0	82.6	82.6	
	294.6	92.5	92.5	
	299.5	175.1	175.1	
	32.0	+0.09	+0.09 ✓	
15 24.4		65.4	72 23	
	118.9	94.1	94.1	
	213.0	75.4	75.4	
	213.5	169.5	169.5	
	288.9	+0.20	+0.20 ✓	

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J.D. 8109 = χ^5

15 27.0	HR 5632	71.0	61 03
	40.1	66.7	66.7
	106.8	83.2	83.2
	122.6	149.9	149.9
	205.8	+0.58	+0.58
15 28.0		71.1	61 03
	303.1	78.4	79.4
	22.5	65.9	65.9
	38.3	144.3	145.3
	104.2	+0.67	+0.67
15 34.7	HR 5801	61.2	25 41
	210.0	83.2	83.2
	293.2	83.1	83.1
	305.1	166.3	166.3
	28.2	+0.26	+0.26
15 35.8		62.9	25 41
	118.0	93.0	93.0
	211.0	85.2	85.2
	209.3	178.2	178.2
	294.5	+0.03	+0.03
15 38.2	HR 5803	62.0	59 30
	39.4	72.7	72.7
	112.1	100.0	100.0
	113.9	172.7	172.7
	213.9	+0.14	+0.14

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15 39.4		62.5 ~~59.30~~	59 30
	296.0	96.9	96.9
	32.9	77.0	77.0
	34.5	173.9	173.9
	111.5	+0.11	+0.11 J
15 41.6	H.R. 5809	67.3	27 39
	212.0	77.3	77.3
	289.3	82.6	82.6
	305.5	159.9	159.9
	28.1	+0.38	+0.38 J
15 42.8		68.5	27 39
	118.0	81.0	81.0
	199.0	69.0	69.0
	218.6	150.0	150.0
	287.6	+0.58	+0.58 J
15 45.0	H.R. 5819	69.4	22 37
	35.1	77.4	77.4
	112.5	85.2	85.2
	117.8	162.6	162.6
	203.0	+0.33	+0.33 J
15 46.4		70.3	22 37
	304.2	79.4	79.4
	23.6	78.9	78.9
	32.5	158.3	158.3
	111.4	+0.41	+0.41 J

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J.D. 8709 = V 5

15 49.6	HR 5821	66.0	47 20
	217.1	66.9	66.9
	284.0	72.5	72.5
	306.5	139.4	139.4
	19.0	+0.79	+0.79 ✓
15 50.7		66.8	47 20
	123.7	78.3	78.3
	202.0	62.8	62.8
	221.5	141.1	141.1
	284.3	+0.75	+0.75 ✓
16 12.6	HR. 5998	68.5	23 5/78
	44.5	62.1	62.1
	106.6	87.7	87.7
	119.2	149.8	149.8
	206.9	+0.58	+0.58 ✓
16 14		69.6	23 5/78
	298.0	90.5	90.5
	28.5	81.2	81.2
	35.3	171.7	171.7
	116.5	+0.16	+0.16 ✓
	HR. 6000		

Companion too close to measure

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June 16 1908.

16	19.2	H.R. 6003	73.7	23 13	
		31.5⁻	89.4	89.4	
		120.9	90.0	90.0	
		122.0	179.4	179.4	
		212.0	+0.01	+0.01 ✓	
16	20.4		75.1	23 13	
		295.0	91.1	91.1	
		26.1	80.0	80.0	
		35.1	171.1	171.1	
		115.1	+0.17	+0.17 ✓	
16	23.0	H.R. 6015⁻	72.8	40 45⁻	
		207.1	88.2	88.2	
		295.3	90.4	90.4	
		294.6	178.6	178.6	
		25.0	+0.03	+0.03 ✓	
16	24.2		74.1	40 45⁻	
		117.1	91.7	91.7	
		208.8	92.4	92.4	
		205.8	184.1	184.1	
		298.2	-0.08	-0.08 ✓	
16	26.4	HR 6022	71.2	53 25	
		38.2	70.3	70.3	
		108.3⁻	81.5	81.5	
		123.8	151.8	151.8	
		205.3	+0.54	+0.54 ✓	

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J.D. 8109 = χ^5

16 27.5⁻		72.0	53 25⁻
	304.4	81.9	81.9
	26.3	70.4	70.4
	40.5⁻	152.3	152.3
	110.9	+0.53	+0.53 ✓
16 30.2	HR 6145⁻	63.5⁻	26 09
	213.0	78.2	78.2
	291.2	71.9	71.9
	310.0	150.1	150.1
	21.9	+0.57	+0.57 ✓
16 31.4		63.9	26 09
	124.0	80.0	80.0
	204.0	78.4	78.4
	212.5⁻	158.4	158.4
	290.9	+0.41	+0.41 ✓
16 33.6	HR 6167	60.5⁻	60 40
	40.4	65.2	65.2
	105.6	81.7	91.7
	117.9	146.9	156.9
	209.6	+0.64	+0.44 ✓
16 34.6		61.0	60 40
	298.0	94.5	94.5
	32.5⁻	76.3	76.3
	33.9	170.8	170.8
	110.2	+0.17	+0.17 ✓

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June 16. 1908.

16 37.2	HR 6174	63.2	43 05	
	211.7	84.6	84.6	
	296.3	101.1	101.1	
	292.9	185.7	185.7	
	34.0	-0.11	-0.11 ✓	
16 38.3		64.3	43 05	
	115.5	96.0	96.0 -43	8 / +3
	211.5	87.0	87.0	
	208.4	183.0	183.0	
	295.4	-0.06	-0.06 ✓	
16 40.6	H.R. 6182	61.2	67 12	
30.7 / 9.9 / .39 / 891 / 297 / 3.9	31.9	81.9 3.9	81.9 -67	11 / -1
	113.8	93.2 57.3	93.2	
	116.9	175.1	175.1	
	210.1	+0.09	+0.09 ✓	
16 41.7		61.9	67 12	
	295.8	98.2	98.2	
	34.0	76.4	76.4	
	34.1	174.6	174.6	
	110.5	+0.10	+0.10 ✓	
16 44.0	H.R. 6193	67.0	24 02	
	211.8	82.2	82.2	
	294.0	84.0	84.0	
	302.2	166.2	166.2	
	26.2	+0.26	+0.26 ✓	

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June 16. 1908.

J.D. 8109 = K⁵

16 45.2		67.9	24 02
	120.1	84.9	84.9
	205.0	84.4	84.4
	211.8	169.3	169.3
	296.2	+0.20	+020 ✓
16 47.4 HR 6197		67.5	45 45
	40.2	68.8	68.8
	109.0	75.7	75.7
	126.4	144.5	144.5
	202.1	+0.68 ~~+0.89~~	+068 ✓
16 48.6		68.1	45 45
	306.4	76.9	76.9
	23.3	74.7	84.7
	35.7	151.6	151.6
	110.4	+0.54	+054 ✓
16 51.0 HR 6206		69.6	40 49
	216.5	76.5	76.5
	293.0	90.0	90.0
	303.0	166.5	166.5
	33.0	+0.25	+025 ✓
16 52.0		70.3	40 49
	120.5	84.8	84.8
	205.3	76.9	76.9
	215.0	161.7	161.7
	291.9	+0.35	+035 ✓

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June 16th

17	15.0	∇ Cetantis	57.2	89 19
		36.6	80.0	80.0
		116.6	93.3	93.3
		116.0	173.3	173.3
		209.3	+0.13	+0.13
17	16.3		57.2	89 19
		296.2	97.6	97.6
		33.8	84.5	84.5
		32.5	182.1	182.1
		117.0	-0.07	-0.04

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1908phae.proj.1255.

Wednesday June 17. 1908.

Sun's y_5 −

J.D. 8110 = y^5

13	16.5	T. Octantis	55.9	89	58
		198.6	111.7	111.7	
		310.3	125.2 ~~116.2~~	125.2	
		281.9	236.9 ~~227.9~~	236.9	
		47.1	~~−0.94~~ −1.13	−1.13 ✓	
13	18.7		55.9	89	58
		100.5	124.8	124.8	
		225.3	106.5	106.5	
		198.1	231.3	231.3	
		304.6	−1.00	−1.00 ✓	
13	21.5	H.R. 5036	61.3	51	35
		25.2	97.9	97.9	
		123.1	123.1	123.1	
		102.8	221.0	221.0	
		225.9	−0.79	−0.79 ✓	
13	22.8		62.3	51	35
		282.6	124.1	124.1	
		46.7	100.9	100.9	
		24.6	225.0	225.0	
		125.3	−0.88	−0.88 ✓	
13	25.7	HR 5038	64.8	47	21
		209.1	92.4	92.4	
		301.3	118.0	118.0	
		284.0	210.4	210.4 ✓	
		42.0	−0.58	−0.58	

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June 17th 1908

13 26.1		65.3	47 21	
	106.0	186.5	116.8	
	222.8	98.5	98.5	
	205.5	215.3	215.3	
	304.0	-0.68	-0.68 J	
13 30.0	HR 5039	67.0	48 00	
	203.0	97.0	97.0	
	300.0	112.9	112.9	
	286.2	209.9	209.9	
	39.1	-0.57	-0.57 J	
13 31.1		68.0	48 00.	
	107.2	111.6	111.6	
	218.8	91.4	91.4	
	206.1	203.0	203.0	
	297.3	-0.44	-0.44 J	
13 33.2	HR 5046	68.3	49 17	
	32.2	82.8	82.8	
	115.0	107.5	107.5	
	108.9	190.3	190.3	
	216.4	-0.20	-0.20 J	
13 34.4		69.0	49 17	
	290.0	105.0	105.0	
	35.0	83.0	83.0	
	29.6	188.0	188.0	
	112.6	-0.15	-0.15 J	

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June 17th.

J.D. 8110 = Y 5

13 36.5	HR 5048	66.5	63 59
	201.5	108.6	108.6
	310.1	131.9	131.9
	277.2	240.5	240.5
	49.1	-1.20	-1.20 ✓
13 37.6		67.0	63 59
	98.9	126.2	126.2
	225.1	110.2	110.2
	199.9	236.4	236.4
	310.1	-1.11	-1.11 ✓
13 40.5	HR 5051	64.5	74 15
	33.8	75.7	75.7
	109.5	107.8	107.8
	110.0	183.5	183.5
	217.8	~~-0.10~~	-0.06 ✓
		-0.06	
13 41.4		64.9	74 15
	289.5	111.0	111.0
	40.5	83.6	83.6
	29.4	194.6	194.6
	113.0	-0.28	-0.28 ✓
14 09.6	HR 5309	60.9	23 40
	207.9	92.5	92.5
	300.4	105.1	105.1
	295.0	197.6	197.6 ✓
	40.1	-0.33	-0.33

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June 17, 1908.

14 10.6		61.5⁻	23 40	
	112.5⁻	103.4	103.4	
	215.9	94.2	94.2	
	204.1	197.6	197.6	
	298.3	-0.33	-0.33 ✓	
14 13.4	H.R. 5311	62.9	54 03	
	24.9	95.6	95.6	
	120.5⁻	119.4	119.4	
	104.3⁻	215.0	215.0	
	223.9	-0.67	-0.67 ✓	
14 15.3		63.3	54 03	
	279.8	124.7	124.7	
	44.5⁻	97.9	97.9	
	24.6	222.6	222.6	
	122.5⁻	-0.83	-0.83 ✓	
14 17.0	HR 5318	65.1	41 13	
	199.8	107.6	107.6	
	307.4	122.0	122.0	
	282.0	229.6	229.6	
	44.0	-0.97	-0.97 ✓	
14 18.2		66.0	41 13	
	99.9	125.1	125.1	
	225.0	106.2	106.2	
	201.0	231.3	231.3	
	307.2	-1.00	-1.00 ✓	

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June 17, 1908.

J.D. 8110 = y 5

1H 28.0	HR 5319	70.0	5302
	30.5	82.5	82.5
	113.0	104.4	104.4
	112.0	186.9	186.9
	216.4	-0.13	-0.13 ✓
1H 29.1		70.5	53 02
	294.9	100.7	100.7
	35.6	86.0	86.0
	31.2	186.7	186.7
	117.2	-0.13	-0.13 ✓
1H 31.1	HR 5325	74.1	44 30
	207.5	88.9.1	89.1
	296.6	106.8	106.8
	288.5	194.95.9	195.9
	35.3	~~-0.28~~ -0.30	-0.30 ✓
1H 32.7		75.0	44 30
	107.3	110.5	110.5
	217.8	95.0	95.0
	206.0	205.5	205.5
	301.0	-0.49	-0.49 ✓
1H 36.3	HR. 54~~37~~ 43	60.8	67 25
	21.8	95.2	95.2
	117.0	117.0	117.0
	105.0	212.2	212.2
	222.8	-0.62	-0.62 ✓

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June 17, 1908.

14 37.3		60.9	67 25⁻	
35.6	286.2	113.3	111.3	
	40.5⁻	98.7	98.7	
	20.5⁻	212.0	213.0	
	119.2	-0.6	-0.63 ✓	
14 39.6	H.R. 5457	63.5⁻	46 01	
	202.0	99.0	99.0	
	301.0	115.0	115.0	
	285.3	214.0	214.0	
	40.3	-0.65	-0.65 ✓	
14 40.8		64.3	46 . 01	
	106.9	111.1	111.1	
	218.0	107.7	107.7	
	196.3	218.8	218.8	
	304.0	-0.75	-0.75 ✓	
14 42.8	H.R. 5458	65.5⁻	48 30	
	29.5⁻	90.4	90.4	
	119.9	112.3	112.3	
	105.0	202.7	202.7	
	217.3	-0.43	-0.43 ✓	
14 43.7		66.2	48 30	
	293.0	107.0	107.0	
	40.0	88.5	88.5	
	24.8	195.5	195.5	
	113.3	-0.29	-0.29 ✓	

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June 17, 1908.

J.D. 8110 = y 5

14 45.7	HR 5461.	66.0	55 55	
	211.0	84.3	84.3	
	295.3	103.1	103.1	
	292.9	187.4	187.4	
	36.0	-0.14	-0.14 ✓	
14 47.0		66.8	55 55	
	112.9	103.6	103.6	
	216.5	90.4	90.4	
	209.0	194.0	194.0	
	299.4	-0.27	-0.27 ✓	
14 49.8	HR 5465	67.1	58 10	
	28.9	89.6	89.6	
	118.5	114.8	114.8	
	105.4	204.4	204.4	
	220.2	-0.47	-0.47 ✓	
14 50.7		67.8	58 10	
	287.2	112.3	112.3	
	39.5	95.0	95.0	
	26.0	207.3	207.3	
	121.0	-0.52	-0.52 ✓	
14 54.4	HR 5486	67.8	58 00	
	211.7	86.4	86.4	
	298.1	115.2	115.2	
	285.2	201.6	201.6 ✓	
	40.4	-0.41	-0.41	

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June 17, 1908.

14 55.4

14 35.6 / 19.8 / .53 / 594 / 990 / 10.5

103.9
220.0
206.5
302.0 b

68.1

116.1 (10.5 / 57.6) − 57 56 − *4

95.5

211.6

−0.61

58 00

116.1
95.5
211.6
−0.61 ✓

−68° 2383, 43 Assume.

15 24.1 HR 5713

15 a 14.5 / 9.6 / .88 / 768 / 2.88 / 3.6 — 7.3 b / 17.1 / .87 / 1197 / 513 / 6.3

359.5
146.9
266.9
60.8

64.0

147.4 (86 / 60.4) a
153.9
301.3
−2.91 (6.3 / 57.7) b

68 − 67 20

147.4 (52 − *28) a
153.9
301.3
−2.91 ✓

68 13 b − *7

15 26.2

64.0

143.4
151.0
294.4
−2.66

68 20

143.4
151.0
294.4
−2.66 ✓

268.9
91.1
52.3
359.5
150.5

Assume b −51° 9150, 8.3

15 28.8 HR 5738 6.9

62.9

20.5 b / 8.3 / .63 / 249 / 498 / 5.2 — 19.3 a / 9.5 / .63 / 285 / 570 / 6.0

212.5
289.8
301.1
26.8

77.3
85.7
163.0
+0.32

60 a / 56.9
52 b / 57.7 — −51 — 1 b / −14

51 15

77.3 a
85.7
163.0 ✓
+0.32 ✓

15 29.6

63.5

19.3 / 10.3 / .63 / 309 / 618 / 6.5

123.3
206.7
217.6
290.1

83.4
72.5
155.9
+0.46

6.5 / 57.0

51 15

18 − *5

83.4
72.5
155.9
+0.46 ✓

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1908phae.proj.1255.

June 17. 1908.

J.D. 8110 = y 5

15 32.2 HR 5757 59.5 77 38

15 22.7 33.3 78.3 2.1 / 57.4 77 29 78.3
9.5 111.6 104.4 −9 ++ 104.4
.22 111.7 182.7 182.7
190 216.1 −0.05 −005 ✓
190
2.1

15 33.4 59.2 77 38
104.7
293.3 ~~94.7~~ 104.7
38.0 84.5 84.5
29.0 189.2 189.2
113.5 ~~+0.02~~ −0.17 ✓
−0.17

15 35.6 H.R. 5760 66.1 23 58

203.1 98.9 98.9
302.0 1038 103.8
292.2 938 202.7
36.0 ~~202.7~~ ~~192.7~~ −0.43 ✓
~~−0.24~~
−0.43

15 36.8 66.9 23 58

112.0 103.3 103.3
215.3 102.9 102.9
202.5 206.2 206.2 ✓
305.4 −0.50 −0.50

15 39.1 HR 5786 60.3 75 48

204.6 96.4 96.4
301.0 118.2 118.2
284.0 214.6 214.6
42.2 −0.67 −0.67 ✓

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June 17. 1908.

15 40.1		60.8	75 48
	103.6	118.5	118.5
	222.1	101.2	101.2
	199.9	219.7	219.7
	301.1	-0.77	-0.77 ✓
15 43.1	H.R. 5801	68.9	25 46
	23.9	105.3	105.3
	129.2	115.3	115.3
	106.9	220.6	220.6
	222.2	-0.79	-0.79 ✓
15 44.3		69.4	25 46
	292.5	102.9	102.9
	35.4	103.3	103.3
	23.5	206.2	206.2
	126.8	-0.50	-0.50 ✓
15 46.8	H.R. 5803	66.6	59 35
	207.6	90.7	90.7
	298.3	119.7	119.7
	281.3	210.4	210.4
	41.0	-0.58	-0.58 ✓
15 47.8		66.9	59 35
	111.3	108.2	108.2
	219.5	97.8	97.8
	204.2	206.0	206.0
	302.0	-0.50	-0.50 ✓

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June 17. 1908.

J.D. 8110 = y

15 50.4	H.R. 5809	74.2	27 45	
	26.3	94.8	97.8	
	121.1	100.2	100.2	
	110.3	195.0	195.0	
	210.6	-0.29	-0.29 ✓	
15 51.4		75.1	27 45	
	296.2	93.8	93.8	
	30.0	90.3	90.3	
	31.0	184.1	184.1	
	121.3	-0.08	-0.08 ✓	
15 54.1	HR. 5937	59.5	53 40	
50.2	203.1	95.9 2.3 / 57.2	95.9	40 / 0
3.9	299.0	114.2	114.2	
.59	285.2	210.1	210.1	
851	39.4	-0.58	-0.58 ✓	
195				
23				
15 55.1		60.0	53 40	
	108.9	115.0	115.0	
	223.9	103.0	103.0	
	199.0	218.0	218.0	
	302.0	-0.73	-0.73 ✓	

c −40° 10 20, 6.6 ?

15 57.2	H.R. 5945	61.2	40 10	
583 b	51.5 a	52.5 c 35.0	76.6 4.3 / 56.9 a	76.6 18 a
3.9	5.7	4.7 111.6	85.2	85.2 +18
.76	.76	.77	161.8	161.8
234	842	82.9 120.9	+0.35 30 b	+0.35 ✓ 10 b
273	399	229 206.1	36 c / 57.6	−40 4 e
8.9	4.3	3.6	58.2	76

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-40° 10' 20",66 ?

June 17. 1908.

16	58.3		61.5⁻	40	10	
	52.5 / 5.8 / .77 / 406 / 406 / 4.5	51.5 / 6.8 / .76 / 408 / 476 / 5.2	302.0 30.6 30.4 118.5⁻	88.6 / 88.1 / 176.7 / +0.06	5.2 / 56.3 / 4.5 / 57.0	88.6 / 88.1 / 176.7 / +0.06	18 / 18	4 / −6
16	00.6	H.R. 5946		62.8		54	13	
15	51.4 / 9.2 / .58 / 736 / 460 / 5.3		205.2 304.1 288.0 38.2	98.9 / 110.2 / 209.1 / −0.56	5.3 / 57.5	98.9 / 110.2 / 209.1 / −0.56	13 / 0	
16	01.5⁻			63.0		54	13	
			114.4 220.0 199.3 300.5⁻	105.6 / 101.2 / 206.8 / ~~−0.45~~ −0.51		105.6 / 101.2 / 206.8 / −0.51	18 / 0	
16	04.1	H.R. 5951		63.0		62	16⁻	
			25.1 121.0 111.1 219.1	95.9 / 108.0 / 203.9 / −0.46		95.9 / 108.0 / 203.9 / −0.46	11 / −4	
16	05.1			63.2		62	15⁻	
			290.0 41.2 25.3 121.4	111.2 / 96.1 / 207.3 / −0.52		111.2 / 96.1 / 207.3 / −0.52		

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June 17, 1908.

J.D. 8110 = y

16 08.0	▽ Octantis	55.5	89	30
	202.6	106.3	101.3	
	303.9	107.6	107.6	
	287.7	208.9	208.9	
	35.3	−0.55	−0.55	V.
16 09.0		56.4	89	30
	106.0	114.3	114.3	
	220.3	106.0	106.0	
	201.0	220.3	220.3	
	307.0	−0.78	−0.78	

On reduction of this series, there seems to have been a mistake in the identification of ▽ Oct. in the polar mirror, as there seems to be a constant difference in magnitude between the measures of June 16 + tonight.

R. H. E.

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1908phae.proj.1255.

July 12. 1908 Sunday J.D. 8135=Z5

Series Z.5. Mirrors re-silvered before this series

16 30.1	♂ Oct	57.0	89 48
	30.0	88.6	88.6
	118.6	106.2	106.2
	110.8	194.8	194.8
	217.0	-0.28	-0.28 ✓
16. 32.4		56.9	89 48
	293.8	103.2	103.2
	37.0	89.0	89.0
	31.9	192.2	192.2
	120.9	-0.23	-0.23 ✓
16 36.1	H.R. 6120	67.1	57 32
	213.1	80.1	80.1
	293.2	100.3	100.3
	292.9	180.4	180.4
	33.2	-0.01	-0.01 ✓
16 38.0		68.0	57 31
	116.5	92.4	92.4
	208.9	82.1	82.1
	214.0	174.5	174.5
	296.1	+0.10	+0.10 ✓
16 41.7	H.R. 6145	72.0	26 09
	33.2	83.7	83.7
	116.9	88.0	88.0
	122.3	171.7	171.7
	210.3	+0.16	+0.16 ✓

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1908phae.proj.1255.

July 12. 1908.

J.D. 8125 = z 5

16	42.0		73.2	26	09
		296.9	97.1	97.1	
		34.0	84.1	84.1	
		31.2	181.2	181.2	
		115.3	-0.02	-0.02 ✓	
16	44.6	H.R. 6167	66.1	60	46
		218.9	70.0	70.0	
		288.9	94.3	94.3	
		299.6	164.3	164.3	
		33.9	+0.30	+0.30 ✓	
16	45.9		66.8	60	46
		125.2	~~66.8~~	82.8	
		208.0	82.8	70.5	
		218.4	70.5	153.3	
		288.9	153.3	+0.51 ✓	
			+0.51		
16	49.1	H.R. 6174	71.4	43	10
		34.9	80.3	80.3	
		115.2	100.2	100.2	
		113.3	180.5	180.5	
		213.5	-0.01	-0.01 ✓	
16	50.3		72.1	43	10
		288.0	110.1	110.1	
		38.1	84.7	84.7	
		31.9	194.8	194.8 ✓	
		116.6	-0.28	-0.28	

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1908phae.proj.1255.

July 12. 1908.

16 52.4 HR 6182 66.4 67 16

30.7 212.4 81.6 85 81.6 11
21.7 294.0 96.8 57.9 96.8 +5
.39 293.7 178.4 178.4
1953 30.5⁻ +0.03 +0.03 √
651
8.5

16 54.1 67.9 67 16

117.1 96.5 96.5
213.6 79.7 79.7
211.9 176.2 176.2
b
Assume 291.6 +0.07 +0.07 √
-67° 3202, 7.3

16 59.0 HR. 6231 67.9 67 38

33.2 b 89.5 a 45.2 54.7 14 55.7 a 28 a
258 19.5 100.9 60.5 66.0 +10
.38 .38 133.9 120.7 121.7
2064 1560 199.9 +1.18 b 98 b +1.16 √ 31 b
774 585 5-81 +7
9.8 7.4

17 00.6 68.1 67 38

16 89.5 311.1 70 70.2 28
21.3 55.8 55.8 +10
48.4 126.0 126.0
104.2 +1.06 +1.06 √

17 04.0 HR. 6251 68.4 57 45⁻

210.5⁻ 86.4 86.4
296.9 101.2 101.2
292.6 187.6 187.6
33.8 -0.14 -0.14 √

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July 12. 1908.

J.D. 8135 = z^5

17 05.2		69.0	57	43⁻
	112.1	100.4	100.4	
	212.5⁻	84.5	84.5	
	212.4	184.9	184.9	
	296.9	−0.09	−0.09 ✓	
17 07.5⁻	H.R. 6253	68.3	63	03⁻
16 43.8 / 23.7	36.6	76.6 (10.7 / 57.6)	76.6	4 / +1
.45 / 1185	113.2	85.0	85.0	
948. / 10.7	123.3	161.6	161.6	
	208.3	+0.35	+0.35 ✓	
17 08.9		69.0	63	03⁻
	296.5⁻	95.6	95.6	
	32.1	80.9	80.9	
	33.9	176.5	176.5	
	114.8	+0.06	+0.06 ✓	
17 12.2	H.R. 6257	77.9	42	52
	209.5⁻	88.9	88.9	
	298.4	103.8	103.8	
	291.4	192.7	192.7	
	35.2	−0.24	−0.24 ✓	
17 13.3		78.3	42	52
	114.1	98.1	98.1	
	212.2	80.9	80.9	
	211.0	179.0	179.0	
	291.9	+0.02	+0.02 ✓	

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1908phae.proj.1255.

July 12. 1908.

17	19.0	H.R. ~~6260~~ 6323	74.2	47	01
		35.5	78.5	78.5	
		114.0	93.1	93.1	
		112.9	171.6	171.6	
		206.0	+0.16	+0.16 ✓	
17	20.3		75.0	47	01
		293.9	100.8	100.8	
		34.7	73.9	83.9	
		34.9	174.7	184.7	
		118.8	~~+0.10~~ −0.09	−0.09 ✓	
17	22.4	H.R. 6338	76.3	43	59
		212.9	82.4	82.4	
		295.3	95.3	95.3	
		299.3	177.7	177.7	
		34.6	+0.04	+0.04 ✓	
17	23.6		77.2	43	59
		117.9	89.3	89.3	
		207.2	83.2	83.2	
		209.2	172.5	172.5	
		292.4	+0.14	+0.14 ✓	
17	25.7	H.R. 6354	80.9	26	18
		33.6	82.3	82.3	
		115.9	78.6	78.6	
		126.5	160.9	160.9	
		205.1	+0.36	+0.36 ✓	

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July 12. 1908.

J.D. 8185 = 5

17	27.0		81.9	26	18
		303.8	73.6	83.6	
		27.4	78.6	78.6	
		33.2	152.2	162.2	
		111.8	~~+0.53~~ +0.34	+0.34 ✓	
17	29.2	♂ Oct	57.6	89	18
		204.8	92.8	92.8	
		297.6	105.7	105.7	
		290.5	198.5	198.5	
		36.2	-0.35	-0.35 ✓	
17	30.3		57.5	89	18
		115.7	96.1	97.1	
		212.8	94.0	94.0	
		207.8	191.1	191.1	
		301.8	-0.21	-0.21 ✓	

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1908phae.proj.1255.

Monday.

July 13. 1908.

Series ab

14 54.8 ♂ Oct 56.2 89 38

	36.1	84.7	84.7
	120.8	99.3	99.3
	115.7	184.0	184.0
	215.0	−0.08	−0.08 ✓

14 56.1 56.2 89 38

294.6	101.6	101.6
36.2	89.4	89.4
29.9	191.0	191.0
119.3	−0.21	−0.21 ✓

14 58.8 H.R. 5509 72.2 43 08

39.4	211.0	80.2	14.2	80.2	2
19.4	291.2	86.7	58.0	86.7	−6
.73	298.4	166.9		166.9	
582	25.1	+0.25		+0.25 ✓	
1358					
14.2					

15 00.1 73.2 43 08

	122.1	~~73.2~~	82.1
	204.2	82.1	79.9
	214.1	79.9	162.0
	294.0	162.0	+0.34 ✓
		+0.34	

15 03.5− H.R. 5515− 71.3 56 19

14 40.0	38.5−	76.3	13.2	76.3	8
23.5−	114.8	81.9	58.1	81.9	−11
.56	123.4	158.2		158.2	
1410	205.3	+0.42		+0.42 ✓	
1175					
13.2					

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July 13. 1908.

J.D. 8136 = a^6

15 04.9		71.09	56	19
	304.3	85.7	85.7	
	30.0	70.7	70.7	
	39.9	156.4	156.4	
	110.6	+0.45	+0.45	
15 07.6	HR 5527	69.5	63	29
	216.2	80.3	80.3	
	296.5	92.3	92.3	
	296.6	172.6	172.6	
	28.9	+0.14	+0.14	
15 08.7		70.0	63	29
	121.3	88.0	88.0	
	209.3	81.0	81.0	
	214.9	169.0	169.0	
	295.9	+0.21	+0.21	
15 11.0	H.R. 5547	64.0	76	49
	36.8	80.7	80.7	
	117.5	92.8	92.8	
	121.5	173.5	173.5	
	214.3	+0.12	+0.12	
15 12.1		64.5	76	49
	297.1	95.0	95.0	
	32.1	79.2	79.2	
	37.3	174.2	174.2	
	116.5	+0.11	+0.11	

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July 13. 1908.

15 14.7 HR 5555 65.9 74 43

215.3 ~5.0 75.0
290.3 82.2 82.2
304.5⁻ 157.2 157.2
26.7 +0.43 +043 ✓

15⁻ 15.0 66.2 74 43

124.2 83.3 83.3
207.5⁻ 75.5 75.5
216.4 158.8 158.8
291.9 +0.40 +040 ✓

15⁻ 18.6 H.R. 5560 77.9 51 10

14 48.3 45.5⁻ 57.5 19.1 57.5 −50 56
30.3 103.0 69.8 58.8 69.8 −14
.63 129.6 127.3 127.3
909 199.4 +1.04 +104 ✓
1818
19.1

15 19.6 78.2 51 10

48.3 308.5⁻ 71.3 19.7 78.3
31.8 19.8 56.6 58.5 56.6
.63 43.4 128.7 127.9
989 100.0 +1.02 +102 ✓
1878
19.7

15 41.4 H.R. 5757 62.0 77 36

218.4 73.1 73.1
291.5⁻ 81.6 81.6
303.6 154.7 154.7
25.2 +0.48 +048

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July 13. 1908.

J.D. 8186 = a^6

15h 42.6		62.1	77	36
	122.2	82.3	82.3	
	204.5	74.8	74.8	
	215.3	157.1	157.1	
	290.1	+0.44	+0.44 ✓	
15 45.4	H.R. 5765	76.3	23	59
	36.1	74.9	74.9	
	111.0	84.8	84.8	
	120.3	159.7	159.7	
	205.1	+0.39	+0.39 ✓	
15h 46.5		77.4	23	59
	300.6	86.9	86.9	
	27.5	82.9	82.9	
	33.0	169.8	169.8	
	115.9	+0.19	+0.19 ✓	
15 49.2	H.R. 5786	64.0	75	50
	213.1	80.1	80.1	
	293.2	96.2	96.2	
	297.4	176.3	176.3	
	33.6	+0.07	+0.07 ✓	
15h 50.3		64.1	75	50
	122.3	82.7	82.7	
	205.0	83.3	83.3	
	210.9	166.0	166.0 ✓	
	294.2	+0.27	+0.27	

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July 13. 1908.

15	52.8	HR. 5801	79.2	25	48	
		31.4	73.6	83.6		
		115.0	89.2	89.2		
		116.1	162.8	172.8		
		205.3	~~+0.33~~ +0.14	+0.14 ✓		
15	53.7		80.0	25	48	
		303.2	82.9	82.9		
		26.1	83.0	83.0		
		34.6	165.9	165.9		
		117.6	+0.27	+0.27 ✓		
15	56.4	HR 5803	72.0	59	38	
	29.7	209.8	84.0	84.0	29	
	26.7	293.8	98.2	98.2	−9	
	.51	295.1	182.2	182.2		
	267	33.3	−0.04	−0.04 ✓		
	1335					
	13.6					
15	57.4		72.4	59	38	
	~~80.7~~	118.9	89.4	89.4		
		208.3	78.3	78.3		
		217.0	167.7	167.7		
		295.3	+0.23	+0.23 ✓		
15	59.8	HR. 5809	84.1	27	48	
	30.7	34.5	77.9	77.9	48	
	29.1	112.4	82.7	82.7	0	
	.88	124.4	160.6	160.6		
	2328	207.1	~~+0.56~~ +0.37	+0.37 ✓		
	2328					
	25.6					

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July 13. 1908.

J.D. 8136 = a[6]

16 01.0 85.2 27 48

302.2 84.7 84.7
26.9 70.4 70.4
39.6 155.1 155.1
110.0 +0.48 +0.48 ✓

Assume: C.M. [b] −22° 11109, 76

16 03.3 H.R. 5819 88.0 22 40

15 32.0[a] 31.4[b] 218.2 64.9 24.8[a] 64.9 −22 45[a]
31.3 31.9 283.1 59.2 78.6 78.6 +5
.92 .92 303.4 78.6 143.5 143.5
626 688 22.0 143.5 +0.70 29.3[b] +0.70 ✓ −22 38[b]
2871 2871 58.7 −2
28.8 29.3

16 04.5 89.0 22 40

128.9 71.6 71.6
200.5 61.7 61.7
220.4 133.3 133.3
282.1 +0.91 +0.91 ✓

16 07.1 HR 5965 69.1 28 38

15 54.9 34.0 83.8 10.7 83.8 −28 47
12.2 117.8 58.4 92.8 92.8 +9
.88 119.2 176.6 176.6
976 212.0 +0.06 +0.06 ✓
976
10.7

16 08.4 70.3 28 38

298.9 86.4 86.4
25.3 77.1 77.1
32.9 163.5 163.5
110.0 +0.31 +0.31 ✓

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1908phae.proj.1255.

July 13. 1908

16	10.4	HR 5973	71.0	24	18
15	56.4	213.1	81.9	81.9	23
	14.0	295.0	88.5	88.5	F5-
	.91	301.3	170.4	170.4	
	140	30.0	+0.18	+0.18 ✓	
	1260				
	12.7				
16	11.4		71.9	24	18
		124.2	83.0	83.0	
		207.2	82.6	82.6	
		212.0	165.6	165.6	
		294.6	+0.27	+0.27 ✓	
16	13.5	HR 5979	68.0	55-	54
		38.6	75.9	75.9	
		114.3	82.1	82.1	
		123.9	158.0	158.0	
		206.0	+0.42	+0.42 ✓	
16	14.4		68.1	55-	54
		295.0	91.6	91.6	
		26.6	74.9	74.9	
		37.1	166.5	166.5	
		112.0	+0.25	+0.25 ✓	
16	16.4	H.R. 5998	72.9	24	00
		207.1	84.9	84.9	
		292.0	87.4	87.4	
		300.6	172.3	172.3	
		28.0	+0.14	+0.14	

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1908phae.proj.1255.

July 13. 1908.

J.D. 8136 = a⁶

16	17.4		74.1	23	58
		123.0	78.9	78.9	
		201.9	85.3	85.3	
		211.0	164.2	164.2	
		296.3	+0.30	+0.30 ✓	
16	19.8	HR 6003	75.9	23	13
		32.0	84.3	84.3	
		116.3	92.1	92.1	
		117.9	176.4	176.4	
		210.0	+0.07	+0.07 ✓	
16	20.9		72.1	23	13
		295.9	97.9	97.9	
		33.8	79.7	79.7	
		33.4	177.6	177.6	
		113.1	+0.05	+0.05 ✓	
16	23.6	HR 6015	74.2	40	43
		209.1	90.2	90.2	
		299.3	96.7	96.7	
		291.9	186.9	186.9	
		28.6	−0.13	−0.13 ✓	
16	24.7		75.2	40	43
		117.9	94.3	94.3	
		212.2	82.8	82.8	
		213.1	177.1	177.1	
		295.9	+0.05	+0.05 ✓	

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16	26.8	HR 6022	72.1	53	28
		31.8	84.6	84.6	
		116.4	100.9	100.9	
		114.3	185.5	185.5	
		215.2	-0.10	-0.10 ✓	
16	27.8		72.9	53	28
		292.2	103.9	103.9	
		36.1	84.5	84.5	
		30.5	188.4	188.4	
		115.0	-0.16	-0.16 ✓	
16	30.4	H.R. 6042	80.1	24	00
		215.9	78.0	78.0	
		293.9	86.1	86.1	
		298.4	164.1	164.1	
		24.5	+0.30	+0.30 ✓	
16	31.6		81.5	24	00
		125.4	78.1	78.1	
		203.5	69.7	69.7	
		219.1	147.8	147.8	
		288.8	+0.62	+062 ✓	
16	34.0	H.R. 6059	74.1	52	50
		39.9	72.6	72.6	
		112.5	86.2	86.2	
		122.8	158.8	158.8	
		209.0	+0.40	+0.40 ✓	

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J.D. 8136 = a^6

16	35.4		75.1	52	50
		301.0	86.0	86.0	
		27.0	68.8	68.8	
		40.1	154.8	154.8	
		108.9	+0.48	+0.48 ✓	
16	37.4	H.R. 6085	76.0	43	40
		210.0	84.3	84.3	
		294.3	100.2	100.2	
		295.0	184.5	184.5	
		35.2	−0.08	−0.08 ✓	
16	38.5		77.0	43	40
		118.5	93.8	93.8	
		212.3	86.9	86.9	
		209.1	180.7	180.7	
		296.0	−0.01	−0.01 ✓	
16	42.5	H.R. 6089	71.2	62	57
		35.8	78.6	78.6	
		114.4	85.9	85.9	
		124.5	164.5	164.5	
		210.4	+0.29	+0.29 ✓	
16	43.5		71.8	62	57
		300.0	93.4	93.4	
		33.4	69.1	69.1	
		40.9	162.5	162.5	
		110.0	+0.33	+0.33 ✓	

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16	45.8	HR 6120	72.4	57	33⁻
		212.0	77.1	77.1	
		289.1	97.6	97.6	
		296.9	174.7	174.7	
		34.3⁻	+0.10	+0.10 ✓	
16	47.0		73.1	57	33⁻
		118.0	95.3	95.3	
		213.3	78.8	78.8	
		211.2	174.1	174.1	
		290.0	+0.11	+0.11 ✓	
16	49.7	HR 6145⁻	81.9	26	13
		32.0	84.4	84.4	
		116.4	92.0	92.0	
		119.0	176.4	176.4	
		211.0	+0.07	+0.07 ✓	
16	50.8		82.8	26	13
		297.3	94.8	94.8	
		32.1	79.5	79.5	
		35.9	174.3	174.3	
		115.4	+0.11	+0.11 ✓	
16	53.0	HR 6167	70.9	60	49
		216.9	72.3	72.3	
		289.2	88.1	88.1	
		299.9	160.4	160.4 ✓	
		28.0	+0.37	+0.37	

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J.D. 8186 = a^6

16 54.0		71.1	60	49
	125.0	86.8	86.8	
	211.8	76.0	76.0	
	216.4	162.8	162.8	
	292.4	+0.33	+0.33 ✓	
16 56.5	H.R. 6174	78.9	43	14
	31.0	85.7	85.7	
	116.7	100.7	100.7	
	114.5	186.4	186.4	
	215.2	-0.12	-0.12 ✓	
16 57.5		79.8	43	14
	290.3	102.4	102.4	
	32.7	86.8	86.8	
	33.3	189.2	189.2	
	120.1	-0.17	-.17 ✓	
17 00.3	HR 6182	69.9	67	20
	214.1	75.2	75.2	
	289.3	94.7	94.7	
	293.1	169.9	169.9	
	27.8	+0.19	+.19 ✓	
17 01.4		70.0	67	20
	124.0	85.9	85.9	
	209.9	74.6	74.6	
	214.0	160.5	160.5 ✓	
	288.6	+0.37	+0.87	

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17	04.5	H.R. 6312	66.8	50	54
		38.3	70.6	70.6	
		108.9	84.1	84.1	
		123.9	154.7	154.7	
		208.0	+0.48	+0.48 ✓	
17	06.4		68.3	50	54
		301.8	84.9	84.9	
		26.7	67.9	67.9	
		37.1	152.8	152.8	
		105.0	+0.52	+0.52 ✓	
17	07.6	H.R. 6323	68.0	46	57
		212.0	82.0	82.0	
		294.0	98.4	98.4	
		295.9	180.4	180.4	
		34.3	-0.01	-0.01 ✓	
17	09.0		68.8	46	57
		120.8	88.7	88.7	
		209.5	81.4	81.4	
		214.6	170.1	170.1	
		296.0	+0.19	+0.19 ✓	
17	11.8	H.R. 6338	69.4	43	52
		33.3	86.6	86.6	
		119.9	92.3	92.3	
		115.9	178.9	178.9	
		208.2	+0.02	+0.02 ✓	

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J.D. 8136 = a^6

17	13.1		70.1	43	52
		298.3	90.6	90.6	
		28.9	78.1	78.1	
		34.5	168.7	168.7	
		112.6	+0.21	+0.21 ✓	
17	15.0	HR 6357	72.2	26	10
		214.4	79.9	79.9	
		294.3	89.8	89.8	
		300.6	169.7	169.7	
		30.4	+0.20	+0.20 ✓	
17	16.0		73.5	26	10
		122.9	81.5	81.5	
		204.4	74.0	74.0	
		215.0	155.5	155.5	
		289.0	+0.47	+0.47 ✓	
17	19.4	HR 6356	68.4	61	32
		35.5	77.9	77.9	
		113.4	85.0	85.0	
		123.8	162.9	162.9	
		208.8	+0.32	+0.32 ✓	
17	20.6		69.0	61	32
		298.0	88.1	88.1	
		26.1	73.5	73.5	
		36.4	161.6	161.6	
		109.9	+0.35	+0.35 ✓	

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17	22.7	HR 6357	66.9	70	40
		218.5	69.3	69.3	
		287.8	88.0	88.0	
		300.4	157.3	157.3	
		28.4	+0.43	+0.43 ✓	
17	23.8		67.1	70	40
		118.6	83.4	83.4	
		202.0	76.3	76.3	
		214.1	159.7	159.7	
		290.4	+0.39	+0.39 ✓	
17	28.0	HR 6438	68.3	57	55
		27.3	92.7	92.7	
		120.0	99.9	99.9	
		115.0	192.6	192.6	
		214.9	−0.24	−0.24 ✓	
17	29.0		68.9	57	55
		295.3	92.2	92.2	
		27.5	88.3	88.3	
		30.9	180.5	180.5	
		119.2	−0.01	−0.01 ✓	
17	31.2	HR 6442	69.0	56	21
		210.0	88.9	88.9	
		298.9	102.3	102.3	
		295.0	191.2	191.2 ✓	
		37.3	−0.21	−0.21	

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J.D. 8136 = a^6

17	32.2		69.7	56	21
		116.8	99.5	99.5	
		216.3	89.3	89.3	
		208.3	188.8	188.8	
		297.6	−0.17	−0.17 ✓	
17	34.1	H.R. 6444	68.9	60	30
		34.9	82.2	82.2	
		117.1	98.0	98.0	
		115.0	180.2	180.2	
		213.0	−0.00	0.00 ✓	
17	35.0		69.2	60	30
		293.1	101.9	101.9	
		35.0	85.6	85.6	
		29.9	187.5	187.5	
		115.5	−0.14	−0.14 ✓	
17	37.6	HR 6491	68.5	62	53
		217.5	75.9	75.9	
		293.4	95.6	96.6	
		294.3	171.5	172.5	
		30.9	+0.14	+0.14 ✓	
17	38.5		68.9	62	53
		119.4	91.0	91.0	
		210.4	75.0	75.0	
		214.9	166.0	166.0	
		289.9	+0.27	+0.27 ✓	

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17	40.4	HR. 6505	69.3	56	48
		32.5	82.5	82.5	
		115.0	94.8	94.8	
		117.1	177.3	177.3	
		211.9	+0.05	+0.05 ✓	
17	41.4		70.0	56	48
		292.2	100.1	100.1	
		32.3	78.4	78.4	
		36.6	178.5	178.5	
		115.0	+0.03	+0.03 ✓	
17	43.8	H.R. 6530	69.9	53	15
		210.0	80.0	80.0	
		290.0	98.1	98.1	
		291.9	178.1	178.1	
		30.0	+0.03	+0.03 ✓	
17	44.9		70.1	53	15
		122.2	84.1	84.1	
		206.3	77.2	77.2	
		214.8	161.3	161.3	
		292.0	+0.36	+0.36 ✓	
17	46.8	H.R. 6572	69.0	46	47
		28.3	93.9	93.9	
		122.2	97.9	97.9	
		112.9	191.8	191.8	
		210.8	+0.22	−0.22 ✓	

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J.D. 8136 = a^6

17 47.8		69.8	46 47	
	291.0	102.9	102.9	
	33.9	91.3	91.3	
	30.9	194.2	194.2	
	122.2	-0.27	-027 ✓	
17 48.8	♂ Oct	57.9	89 14	
	207.8	89.7	89.7	
	297.5	103.5	103.5	
	291.4	193.2	193.2	
	34.9	-0.25	-0.25 ✓	
17 50.0		57.8	89 14	
	116.8	~~57.8~~	94.1	
	210.9	93.4.1	97.5	
	202.9	97.5	191.6	
	300.4	191.6		✓
		-0.2~~0~~2	-022	

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Tuesday July 14. 1908.

Series B6

14 38.5 — T Octantis — 56.3 — 89 40

28.9 — 86.7 — 86.7
115.6 — 75.7 — 75.7
~~33.6~~ ~~+10.0~~ — 162.4 ✓ — 162.4
~~109.3~~ ~~213.5~~ — +0.33 ✓ — +0.33 ✓

14 40.6 — 56.1 — 89 40

212.9 — ~~77.0~~ — 77.0
289.9 — 93.1 — 93.1
~~27.2~~ — ~~170.1~~ ✓ — 170.1
120.3 — +0.19 ✓ — +0.19 ✓

14 42.6 — H.R. 5509 — 59.3 — 43 01

39.4 — (1) 212.0 — ~~79.0~~ 2.3 57.0 — 79.0 — 2 / +1 79.0
3.2 — (2) 291.0 — 279.9 — 88.1 — 88.1
.73 — (3) 297.7 — 350.9 — 167.1 ✓ — 167.1 ✓
96 — (4) 25.8 — ~~7.00~~ — +0.24 — +0.24
224
2.3

14 43.9 — 60.0 — 43 01

121.0 — 095.4
216.4
291.3

14 46.3 — H.R. 5515 — 60.9 — 56 12

40.0 — 34.3 — 76.7 3.5 57.4 — 76.7 — 8 / −4
6.3 — 111.0 — 87.6 — 87.6
56 — 119.0 — 164.3 — 164.3
378 — 206.6 — +0.30 ✓ — +0.30 ✓
315
3.5

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July 14. 1908.

J.D. 8137 = b^6

14 47.5⁻ 61.5⁻ 56 12

299.3 268.1 91.9 91.9
31.2 76.4 76.4 76.4
36.2 344.5 168.3 ✓ 168.3
112.6 5.85
+0.22 +0.22 ✓

14 49.5⁻ H.R. 5527 60.9 63 63 21 17 −4

42.4 210.1. 82.0 3.2 57.7 82.0 82.0
7.1 292.1 269.1 90.9 90.9
.45 298.1 351.1 172.9
355⁻ 29.0
284
3.2

+0.15⁻³ +0.13 ✓

14 50.7 61.1 63 21

32.3 85.0 85.0 85.0
117.3 96.3 96.3 96.3
115.2 181.3 181.3 ✓ 181.3
b 211.5⁻
−0.02 −0.02 ✓

−76° 89′ 6.7 Assume.

15⁻ 03.4 H.R. 5547 64.0 76 45⁻
+1

37.2 b 45.6 a 40.0 68.6 H.1 a 68.6 −76 89 a
26.2 17.8 108.6 59.9 82.0 −6
.23 .23 122.0 ×82.0 150.6
786 534 204.0 1250.6 ✓
524 356 +0.56 60 b +0.56 ✓ −76 89 b
6.0 41.1 58.0 −6

15⁻ 05.8
+1

64.4 76 45⁻

301.2 274.3 85.7 85.7
26.9 68.2 66.2 66.2
41.0 342.5 151.9 151.9
107.2 +0.54 +0.54 J

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July 14. 1908.

15 07.4 HR 5555 63.1 74 38

14 14.5 46.5 219.0 81.6 14.3 71.5 82 71.5 -6
52.9 20.9 290.5 58.8
.27 .27 263.1 96.9 96.9
8703 1463 296.1 3446 5.6 168.4 168.4
1058 418 33.0 57.5 +0.22 +0.22 ✓
14.3 5.6

15 08.7 63.5 74 38

123.0 83.2 83.2 83.2
206.2 73.9 73.9 73.9
214.4 57.1 157.1 157.1
288.3 +0.44 +0.44 +0.44 ✓

15 11.1 HR 5560 71.5 51 00 56 -4

14 48.3 48.9 54.1 14.4 54.1 54.1
22.8 103.0 57.1 74.3 74.3
.63 125.6 128.4 128.4
684 199.9 +1.01 +1.01 +1.01 ✓
1368
14.4

15 12.3 72.3 51 00

304.8 85.8 74.2 74.2
19.0 61.9 61.9 61.9
41.1 447.7 136.1 136.1
103.0 +0.85 +0.85 ✓

15 14.6 H.R. 5566 74.0 48 27 21

14 49.6 218.0 75.2 16.5 75.2 -48 75.2 -6 75.2
25.0 293.2 57.5 82.6 82.6
.66 302.9 374.4 157.8 157.8
1500 25.5 452.6 +0.42 +0.42
1500
16.5

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J.D. 8187 = b^6

15 16.0		75.1	48 27	
	117.4	92.6	92.6	
	210.0	71.1	71.1	
	217.0	163.7 ✓	163.7	
	288.1	+0.31	+0.31 ✓	
15 18.2	H.R. 5580	77.2	42 45⁻	
	32.5⁻	84.6	84.6	
	117.1	91.6	91.6	
	118.4	176.2 ✓	176.2	
	210.0	+0.07	+0.07 ✓	
15⁻ 19.2		78.1	42 45⁻	
	292.0	~~263.0~~	97.0	97.0
	29.0	~~84.3~~	~~84.3~~	~~84.3~~
	31.0	~~347.3~~	181.3 ✓	181.3
	115.3		-0.02	-0.02 ✓
15⁻ 21.8	H.R. 5598	66.9	71 33⁻	
	223.2	~~68.3~~	68.3	68.3
	291.5⁻	~~281.6~~	~~78.4~~	~~78.4~~
	303.1	~~349.9~~	146.7 ✓	146.7
	21.5⁻		+0.64	+0.64 ✓
15⁻ 23.0		68.1	71 35⁻	
	126.2	74.6	74.6	
	200.8	67.1	67.1	
	218.9	141.7 ✓	141.7	
	286.0	+0.74	+0.74 ✓	

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15 43.4	H.R. 5819	67.5	22	36	
	34.0	79.9	79.9		
	113.9	84.2	84.2		
	122.6	164.1 ✓	164.1		
	206.8	+0.30 ✓	+0.30 ✓		
15 44.9		69.0	22	36	
	301.2	~~270.2~~	~~89.8~~	89.8	
	31.0	~~82.4~~	~~82.4~~	82.4	
	34.6	~~352.6~~	~~172.2~~ ✓	172.2	
	117.0		+0.15	+0.15 ✓	
15 47.5	H.R. 5821	68.1	47	18	
	213.2	~~82.1~~	~~82.1~~	82.1	
	295.3	~~267.8~~	~~92.2~~	92.2	
	298.8	~~349.9~~	~~174.3~~ ✓	174.3	
	31.0		+0.11	+0.11 ✓	
15 48.6		68.9	47	18	
	124.2	85.2 ✓	85.7		
	209.9	~~78.7~~	78.7		
	213.2	~~164.6~~	164.4		
	291.9	164.4 ✓	+0.30 ✓		
		+0.30 ✓			
15 51.2	H.R. 5832	69.0	49	06	
	32.2	84.2 3	84.3		
	116.5	88.1	88.1		
	121.1	172.3 4 ✓	172.4		
	209.2	+0.14 ✓	+0.14 ✓		

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July 14. 1908

J.D. 8187 = b^6

15⁻ 52.5⁻		69.9	49	06	
	299.2	~~267.2~~	92.8	92.8	
	32.0	~~74.9~~	74.9	74.9	
	36.2	~~342.1~~	167.7 ✓	167.7	
	111.1		+0.23	+0.23 ✓	
15⁻ 54.8	H.R. 5846	71.1	41	25⁻	
	206.6	~~85.5~~	85.5	85.5	
	292.1	~~261.9~~	98.1	98.1	
	295.9	~~347.4~~	183.6 ✓	183.6	
	34.0		−0.07	−0.07 ✓	
15⁻ 56.0		71.9	41	25⁻	
	117.8	95.0		95.0	
	212.8	86.2		86.2	
	210.0	181.2 ✓	−0.02	181.2	
	296.2			−0.02 ✓	
15⁻ 58.0	H.R. 5856	73.9	27	35⁻	
	35.4	73.5	73.5		
	108.9	74.2	74.2		
	127.9	147.7 ✓	147.7		
	202.1	+0.62	+0.62 ✓		
15 59.3		75.8	27	35⁻	
	302.0	~~276.6~~	84.0	84.0	
	26.0	~~73.7~~	73.7	73.7	
	36.6	349.7	157.7	157.7	
	110.3		+0.43	+0.43 ✓	

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July 14. 1908.

16 02.1	H.R. 5865	71.1	52 07		
	214.6	~~76.9~~	~~76.9~~	76.9	
	291.5	~~268.9~~	~~91.1~~	91.1	
	295.0	~~345.8~~	~~168.0~~	168.0	
	26.1	~~-6.04~~	+0.23	+0.23	
16 03.4		71.4	52 07		
	119.2	~~81.3~~	~~91.3~~	91.3	
	210.5	~~77.1~~	~~77.1~~	77.1	
	213.0	~~168.4~~	~~168.4~~	168.4	
	290.1	~~+0.41~~	+0.22	+0.22	
16 06.1	H.R. 5937	68.1	53 41		
	37.2	77.1	77.1		
	114.3	90.8	90.8		
	117.2	167.9	167.9		
	208.0	+023	+0.23		
16 07.3		67.9	53 41		
	295.5	~~266.0~~	~~94.0~~	94.0	
	29.5	~~77.1~~	~~77.1~~	77.1	
	36.0	343.1	171.1	171.1	
	113.1	~~-4.64~~	+0.17	+0.17	
16 21.6	HR 5945	80.0	40 22		
	213.9	~~76.5~~	~~76.5~~	76.5	
	290.4	~~282.9~~	~~77.1~~	77.1	
	305.0	359.4	153.6	153.6	
	22.1	-6.67	+0.50	+0.50	

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July 14, 1908.

J.D. 8187 = b6

16	22.6		80.5⁻	40	22
		125.4	~~75.0~~	75.0	
		200.4	~~71.7~~	71.7	
		215.5⁻	146.7 v	146.7	
		287.2	+0.64 ✓	+0.64 ✓	
16	25.3	H.R. 6089	62.4	62	48
		34.8	81.7	81.7	
		116.5⁻	91.7	91.7	
		114.4	193.4 v	173.4	
		206.1	+0.13 ✓	+0.13 ✓	
16	26.4		62.9	62	48
		300.0	~~270.4~~	89.6	89.6
		29.6	~~79.5~~	~~79.5~~	79.5
		34.5⁻	~~349.9~~	169.1 v	169.1
		114.0		+0.20	+0.20 ✓
16	28.4	H.R. 6120	62.0	57	23
		214.2	~~81.9~~	81.9	81.9
		296.1	~~59.6~~	100.4	100.4
		292.2	~~149.5~~	182.3 v	182.3
		32.6		-0.04	-0.04 ✓
16	29.5⁻		62.5⁻	57	23
		113.0	101.0		101.0
		214.0	82.9		82.9
		211.0	183.9 v	-0.07	183.9
		293.9			-0.07 ✓

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16	32.4	H.R. 6145	64.2	26 05	
		28.0	87.1	87.1	
		115.1	91.5	91.5	
		121.0	178.6	178.6	
		212.5	+0.03	+0.03	
16	33.5		65.1	26 05	
		295.0	264.8	95.2	95.2
		30.2	84.4	84.4	84.4
		31.1	349.2	179.6	179.6
		115.5		+0.01	+0.01
16	35.4	HR 6167	60.9	60 78 40	
		215.8	87.1	78.1	78.1
		293.9	263.7	96.3	96.3
		296.2	350.8	174.4	174.4
		32.5		-0.06	+0.11 +0.11
16	36.3		61.2	60 40	
		120.5	88.8	88.8	
		209.3	80.0	80.0	
		210.5	168.8	168.8	
		290.5	+0.21	+0.21	
16	38.5	H.R. 6174	63.5	43 05	
		27.1	86.9	86.9	
		114.0	98.5	98.5	
		117.1	185.4	185.4	
		215.6	-0.10	-0.10	

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July 14, 1908.

J.D. 8137 = h6

16 39.8		64.4	43	03	
	294.7	~~260.1~~	99.9		99.9
	34.1	89.1	89.1		89.1
	29.4	~~8492~~	189.0 v		189.0
	118.5		−0.17		−0.17
16 42.6	H.R. 6182	61.9	67	10	
	209.1	89.2	89.2		89.2
	298.3	~~263.3~~	96.7		96.7
	296.3	~~352.5~~	185.9 v		185.9
	33.0		−0.11		−0.11
16 43.8		62.2	67	10	
	113.4	~~199.1~~	99.1		
	212.5	80.0	80.0		
	214.0	~~179.1~~ v	179.1		
	294.0	+0.02	+0.02		
16 47.8	H.R. 6193	70.0	24	03	
	30.0	84.5	84.5		
	114.5	89.4	89.4		
	118.6	173.9 v	173.9		
	208.0	+0.11	+0.11		
16 49.3		70.4	24	03	
	299.0	~~264.1~~	95.9		95.9
	34.9	83.4	83.4		83.4
	31.6	~~347.5~~	179.3 v		179.3
	115.0		+0.01		+0.01

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July 14. 1908.

16 51.5 HR. 6197 69.4 45 48

34.0 208.5 85.6 12.2 57.2 85.6 50/-2 85.6
17.5 .70 294.1 267.0 93.0 93.0
12.250 296.9 352.6 178.6 178.6
29.9 +0.02 +0.03

16 52.6 70.0 45 48

84.0 124.5 ×85.0 13.0/57.0 85.0 50/-2
18.6 .70 209.5 81.2 81.2
13.020 213.8 166.2 166.2
Assume. 295.0 +0.26 +0.26
45° 10797, 7.0

16 55.4 HR. 6197 75.4 45 55

28.9 b 84.0 a 43.4 ×58.0 15.0/60.4 a 58.0 50/5 a
26.6 .70 21.4 101.4 76.0 76.0
18.620 .70 14.980 214.2 134.0 134.0
200.2 +0.90 18.6/56.8 +0.90 54/+1 b

16 56.5 76.3 45 55

28.9 b 84.0 a 305.2 29.02 15.8/60.3 a 69.8 50/+5 69.8 a
27.6 .70 22.5 15.0 63.2 63.2 63.2
19.320 .70 15.750 42.9 353.4 133.0 133.0
106.1 19.3/57.0 +0.92 +0.92
54/+1 b

16 58.8 HR. 6206 74.9 40 50

208.5 88.4 88.4 88.4
296.9 264.2 95.8 95.8
293.2 352.6 184.2 184.2
29.0 -0.08 -0.08

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July 14. 1908

J.D. 8137 = b6

17 00.1		75.9	40	50
	116.0	92.0	92.0	
	208.0	79.6	79.6	
	214.2	171.6 ✓	171.6	
	293.8	+0.16	+0.16 ✓	
17 03.4	H.R. 6312	64.5⁻	50	52
	35.0	76.0	76.0	
	111.0	76.7	76.7	
	126.8	152.7 ✓	152.7	
	203.5⁻	+0.52	+0.52 ✓	
17 04.4		65.1	50	52
	301.0	~~271.2~~	88.8	88.8
	29.8	68.5	68.5	68.5
	41.5⁻	~~339.7~~	157.3 ✓	157.3
	110.0		+0.43	+0.43 ✓
17 06.4	HR 6323	65.9	46	55⁻
	212.5⁻	~~81.5~~	81.5	81.5
	294.0	~~272.7~~	87.3	87.3
	301.9	~~354.2~~	168.8 ✓	168.8
	29.7		+0.21	+0.21 ✓
17 08.0		66.9	46	55⁻
	118.5⁻	89.1	89.1	
	207.6	86.0	86.0	
	211.0	~~1831~~ ✓	175.1	
	297.0	+0.09	+0.09 ✓	

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17	11.9	HR 6354	68.1	26	10	
		34.2	~~78.4~~	78.4		
		112.6	82.1	82.1		
		122.9	160.5	160.5		
		205.0	+0.37	+0.37		
17	13.4		69.1	26	10	
		299.4	~~273.8~~	~~84.2~~ 83.6	86.2	
		25.6	83.1	83.1	83.1	
		30.5	256.9	~~167.3~~ 166.7	169.3	
		113.6		+0.~~24~~ 20	+0.20	
17	16.4	HR 6356	66.0	61	28	
		222.1	~~69.9~~	69.9	69.9	
		292.0	~~268~~ 266	~~92.4~~ 91.4	91.4	
		297.0	~~338.5~~ 332.5	~~161.3~~ 157.3	161.3	
		28.4		+0.36	+0.36	
17	17.4		66.5	61	28	
		123.2	85.3	85.3		
		208.5	~~70.9~~ 70.8	70.9		
		218.1	~~156.2~~ 155.1	156.2		
		289.0	~~+0.78~~	+0.45		
			+0.45			
17	19.9	HR 6357	65.1	70	35	
		33.0	~~75.0~~ 74.9	75.0	75.0	
		108.0	~~89.2~~ 89.1	89.2	89.2	
		120.3	~~164.2~~ 164.0	164.2	164.2	
		209.5		+0.30	+0.30	

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July 14. 1908.

J.D. 8187 = b6

17 21.4

	65.9	70 35
300.5	281.3	88.7 86.7
29.2	71.4	71.4 71.4
38.0	351.7	160.1 158.1
109.4		+0.38 +0.42
		+0.42

17 23.9 H.R. 6368

	67.0	67 04
214.5	79.5	79.5 79.5
294.0	261.0	99.0 99.0
294.2	340.5	178.5 178.5
33.2		+0.03 +0.03

17 25.0

	67.2	67 04
119.9	96.5	96.5
216.4	82.1	82.1
211.9	178.6	178.6
294.0	+0.03	+0.03

17 27.0 HR 6373

	64.9	74 25
38.0	71.2	71.2
109.2	88.5	88.5
118.5	159.7	159.7
207.0	+0.39	+0.39

17 28.0

	65.1	74 25
296.5	270.4	89.6 89.6
26.1	74.1	74.1 74.1
34.0	344.5	163.7 163.7
108.1		+0.31 +0.31

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July 14. 1908.

17 31.5 H.R. 6488 68.0 57 50

214.3	80.7	80.7	80.7
295.0	260.4	99.6	99.6
293.5	341.1	180.3	180.3
33.1		−0.01	−0.01

17 32.6 68.4 57 50

114.4	94.9	94.9
209.3	88.9	88.9
209.1	183.8	183.8
298.0	−0.07	−0.07

17 34.5 H.R. 6442 69.5 56 22

27.9	88.1	88.1
116.0	104.0	104.0
109.0	192.1	192.1
213.0	−0.23	−0.23

17 35.5 70.1 56 22

295.9	256.5	93.5
39.4	25.2	85.2
26.8	281.7	178.7
112.0		+0.02
		~~+0.22~~ +0.07

17 37.4 HR 6447 69.3 60 30

204.6	90.4	90.4
295.0	254.1	105.9
290.0	344.5	196.3
35.9		~~−0.29~~ −0.31
		−0.31

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July 14. 1908.

J.D. 8137 = h6

17 38.4		69.8	60	30
	114.6	97.3	97.3	
	211.9	87.2	87.2	
	207.8	184.5 ✓	184.5	
	295.0	−0.08	−0.08 ✓	
17 41.0	H.R. 6471	69.0	62	57
	38.4	75.1	75.1	
	113.5−	88.3	88.3	
	120.1	163.4 ✓	163.4	
	208.4	+0.32	+0.32 ✓	
17 41.9		69.4	62	57
	298.9	~~269.8~~	90.2	90.2
	29.1	~~76.8~~	76.8	76.8
	36.0	~~346.6~~	167.0	167.0
	112.8		+0.25	+0.25 ✓
17 43.7	H.R. 6505−	70.0	56	49
	211.0	85.4	85.4	85.4
	296.4	260.2	99.8	99.8
	293.0	345.6	185.2 ✓	185.2
	32.8		−0.10	−0.10 ✓
17 44.7		70.3	56	49
	121.5−	90.5	90.5	
	212.0	87.5	87.5	
	208.5−	178.0 ✓	178.0	
	296.0	+0.04	+0.04 ✓	

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July 14. 1908.

17. 46.7	HR 6530	70.0	53	15-	
	34.9	80.2	80.2		
	115.1	86.1	86.1		
	123.9	166.3 ✓	166.3		
	210.0	+0.26	+0.26 ✓		
17 47.5		70.3	53	15-	
	294.0	~~262.6~~	97.4	97.4	
	31.4	~~75.9~~	75.9	75.9	
	35.9	338.5	173.3 ~	173.3	
	111.8		+0.13	+0.13 ✓	
17 49.7	HR 6572	69.1	46	43	
	209.1	~~87.4~~	87.4	87.4	
	296.5-	~~253.9~~	106.1	106.1	
	289.5-	341.3	193.5	193.5	
	35.6		X -0.25	-0.25 ✓	
17 50.6		69.9	46	43	
	108.9	~~9.5~~	107.6	107.6	
	216.5-	~~87.6~~	87.6	87.6	
	207.0	~~91.1~~	195.2	193.2	
	294.6		~0.29	-0.29 ✓	
17 52.5	Oct	58.0	89	18	
	30.0	86.2	86.2		
	116.2	109.9	109.9		
	106.0	196.1 ✓	196.1		
	215.9	~0.30	-0.30 ✓		

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July 14. 1908.

J.D. 8187 = b6

17 53.7

	57.9	89	18
288.5	250.9	109.1	109.1
37.6	81.6	81.6	81.6
31.9	332.5	190.7	190.7
113.5		~0.20	−0.20 ✓

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1908phae.proj.1255.

Thursday, August 20, 1908

Series c 6

18 16.1 — Oct.

		58.2	88 11
211.2		87.2	87.2
298.4		108.6	108.6
289.1		195.8	195.8
37.7		-0.20	-0.30 ✓

8 18.3

		58.1	88 11
113.2		102.5	102.5
215.7		95.1	95.1
206.1		197.6	197.6
301.2		-0.33	-0.33 ✓

-63° 4843, 7.1 ? c -64° 3826, 8.3 ?

18 23.4 — H.R. 6871

		67.0	64 11
52.3		40.8	40.8
93.1		44.5	44.5
141.2		85.3	85.3
185.7		+2.04	+2.04 ✓

63 5-a

18 24.4

		67.4	26 21
320.6		48.2	48.2
8.8		41.8	41.8
52.2		90.0	90.0
94.0		+1.91	+1.91 ✓

18 29.7 — H.R. 6909

		66.1	26 21
212.8		79.6	79.6
292.4		85.4	85.4
295.4		165.0	165.0
20.8		+0.29	+0.29 ✓

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1908phae.proj.1255.

Aug. 20, 05

J.D. 8174 = C⁶

18 30.7	H.R. 6909	66.9	26 21	
	121.2	87.2	87.2	
	208.4	75.9	75.9	
	216.2	163.1	163.1	
	292.1	+0.32	+0.32 ✓	
18 31.6	H.R. 6914	67.7	26 32	
20.8	35.6	74.5 (10.1 57.6)	74.5	50
11.3	110.1	87.6	87.6	-18
.89	120.4	162.1	162.1	
1017	208.0	+0.34	+0.34 ✓	
904				
10.1				
18 32.6		68.5	26 32	
1	302.9	85.1	85.1	
	28.0	70.2	70.2	
	36.6	155.3	155.3	
	106.8	+0.47	+0.47 ✓	
78 34.7	H.R. 6915	68.3	43 48	
20.2	222.4	64.5 (10.4 57.9)	64.3	53
14.5	286.7	84.9	84.9	-7
.72	299.7	149.4	149.2	
290	24.6	+0.59	+0.59 ✓	
1015				
10.4				
18 35.6		68.8	43 ~~48~~	
	120.9	84.5	84.5	
	205.4	76.0	76.0	
	214.3	160.5	160.5	
	290.3	+0.37	+0.37 ✓	

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1908phae.proj.1255.

Aug 20, 1908

18 37.3	H.R. 6922	69.1	47 11
	31.2	89.2	89.2
	120.4	104.3	104.3
	107.9	193.5	193.5
	212.2	−0.20 5	−0.25 ✓
18 38.2		69.7	47 11
	293.0	104.1	104.1
	37.1	93.1	93.1
	30.2	197.2	197.2
	123.3	−0.33	−0.33 ✓
18 40.2	H.R. 6926	74.2	26 26
	223.3	66.9	66.9
	290.2	81.3	81.3
	303.7	148.2	148.2
	25.0	+0.61	+0.61 ✓
18 41.1		75.3	26 26
	116.2	89.4	89.4
	206 5	64.8	64.8
	222.9	154.2	154.2
	287.7	+0.49	+0.49 ✓
18 43.0	H.R. 6929	77.0	25 08
18 21.7	24.8	75.5 19.2 57.8	75.5 25 20 +12
21.3	110.3	81.7	81.7
90	123.3	157.2	157.2
19.170	205.0	+0.43	+0.43 ✓

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1908phae.proj.1255.

Aug. 20, 1908

J.D. 8774 = c⁶

18 43.8	H.R. 6929	77.7	25 08	
	302.1	81.8	81.8	
	239	69.97	69.7	
	39.0	151.75	151.5	
	108.7	+0.54 5	+0.35 ✓	
18 52.8	H.R. 6939	73.2	58 48	
22.5	217.5	71.6 15.8 57.4	71.6	47 −1
30.3	289.1	86.4	86.4	
.52	301.3	158.0	158.0	
606	25.7	+0.42	+0.42 ✓	
1515				
15.8				
18 53.6		73.7	58 49	
	119.3	83.5	83.5	
	202.5	72.1	72.1	
	220.1	155.6	155.6	
	292.2	+0.47	+0.47 ✓	
18 55.7	H.R. 6954	77.0	53 01	
	39.2	75.7	75.7	
	114.9	85.9	85.9	
	121.4	161.6	161.6	
	207.3	+0.35	+0.35 ✓	
18 56.6		77.4	53 01	
	298.9	86.2	86.2	
	25.1	63.4	63.4	
	43.4	179.6	149.6	
	106.8	+0.58	+0.58 ✓	

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1908phae.proj.1255.

Aug. 20, 1908

18 58.2 H.R. 6986 63 77.0 47 59

29.8 / 28.4 / .67 / 1988 / 1704 / 19.0	215.2	83.9 (19.0 / 58.0)	83.9 −48 1 / +2
	299.1	101.0	101.0
	296.2	184.9	184.9
	37.2	−0.09	−0.09 ✓

18 59.1 77.4 47 59

	108.6	107.1	107.1
	215.7	87.8	87.8
	210.0	194.9	194.9
	b 297.8	−0.28	−0.28 ✓

Assume −78° 1180, 7.1 ?

19 01.8 H.R. 6994 66.1 78 11

18 28.6 a / 33.2 / .21 / 832 / 664 / 7.0	23.6 b / 38.2 / .21 / 882 / 764 / 8.0	245.7	59.3 (7.0 / 58.1) a	59.3 (7.7 / 59) a / −12
		105.0	66.7	66.7
		130.4	126.0	126.0
		197.1	+1.06 (8.0 b / 58.1)	+1.06 ✓

−78 10 b / −1

19 02.6 66.2 78 12

~~18 32.0~~	308.9	75.3	75.3
	24.2	59.3	59.3
	44.1	134.6	134.6
	103.4	+0.88	+0.88 ✓

Assume H.R. 6986.

19 04.2 H.R. 7005 69 80.9 48 08

18 32.0 a / 32.2 / .67 / 2254 / 1932 / 21.6	29.8 b / 34.4 / .67 / 2408 / 2064 / 23.0	207.2	91.5 (24.6 / 59.3) a	91.5 −48 12 a / +4
		298.7	102.9	102.9
		294.2	194.4	194.4
		37.1	−0.27 (23.0 b / 57.9)	−0.27 ✓

48 1 b / −7

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Aug 20, 1908

J.D. 8174 = C 6

19 04.8	H.R. 7005	81.2	45 08	
82.0 / 82.8 / .67 / 2296 / 1968 / 22.0	116.8	98.6 220/59.2	98.6	
	215.4	83.7	83.7	
	211.7	182.3	182.3	
	294.4	-0.04	-0.04 ✓	
19 06.8	H.R. 7015	73.4	61 17	
18 33.8 / 33.0 / .48 / 2640 / 1320 / 15.8	44.0	71.2 15.8/57.6	71.2 13/-4	
	115.2	89.2 1	89.1	
	120.2	160.4 3	160.3	
	209.4	+0.37 8	+0.38 ✓	
19 07.6		73.8	61 17	
	299.8	87.1	87.1	
	26.9	74.4	74.4	
	34.7	161.5	161.5	
	108.1	+0.35	+0.35 ✓	
19 09.8	H.R. 7022	77.2	57 08	
	221.8	72.2	72.2	
	294.0	88.2	88.2	
	301.2	160.4	160.4	
	29.4	+0.37	+0.37 ✓	
19 10.6		77.6	57 08	
	124.3	80.6	80.6	
	204.9	73.4	73.4	
	278.6	154.0	154.0	
	292.0	+0.50	+0.50 ✓	

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Aug 20, 1908

19	13.8	H.R. ~~7320~~ ~~3218~~ 7038	58.8	68	28
19	11.0	39.0	78.8 1.0	78.8 - 68	86
	2.8	117.8	83.9 57.8	83.9	+8
	.36	122.9	162.7	162.7	
	168	206.8	+0.33	+0.33 ✓	
	84				
	10				
19	14.5		59.0	68	32
		303.3	78.5	78.5	
		21.8	66.7	66.7	
		41.2	145.2	145.2	
		107.9	+0.67	+0.67 ✓	
19	16.5	H.R. 7334	59.8	42	00
		218.2	70.8	70.8	
		289.0	85.5	85.5	
		303.8	156.3	156.3	
		29.3	+0.45	+0.45 ✓	
19	17.2		60.1	42	00
		121.9	86.4 (5)	85.4	
		207.3	74.1	74.1	
		217.2	~~+60.5~~ 159.5	159.5	
		291.3	+0.3~~7~~ 9	+0.39 ✓	
19	18.2	H.R. 73~~1~~0 (5)	59.8	43	42
		35.1	48.2	78.2	
		113.3	92.4	92.4	
		115.8	170.6	170.6	
		205.2	+0.18	+0.18 ✓	

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1999phae.proj.1255.

Aug 20, 1905

J.D. 8174 = c^6

19 19.2 H.R. 7340 (5)

301.8	86.6	86.6
284	69.7	69.7
39.6	156.3	156.3
109.3	+0.45	+0.45 ✓

Assume −29° 16′ 41″.0 Assume.

19 23.2 H.R. 7360

226.9	65.3	5.2 a	29.25	− 29	33 a
284.7	57.8	60.1		57.8	+8
315.2	58.9			68.9	
14.1	116.7	7.8 b		116.7	−29 45 b
	+1.27	57.5		+1.27 ✓	+20

b: 14.2 / 9.0 / .87 / 7830 — a: 182 / 60 / .87 / 5220

19 24.0

129.3	65.9		29.25
198.2	68.9		68.9
221.9	62.8		62.8
284.7	131.7		131.7
	+0.94		+0.94 ✓

H.R. 7320
−68° 32′ 18″.6 Assume.

19 25.8 H.R. 7383

40.3	62.8	2.7 a	68.27	68	4 a
107.1	66.8	60.1		− 66.8	+14
126.0	77.8			77.8	
203.8	144.6	5.3 b		144.6	36 b
	+0.68	57.5		+0.68 ✓	+9

b: 11.0 / 14.8 / .36 / 888 / 444 / 5.3 — a: 182 / 76 / .36 / 456 / 228 / 2.7

19 26.5

301.6	63.1		68.27
21.2	79.6		79.6
40.3	67.6		67.6
107.4	147.2		147.2
	+0.63		+0.63 ✓

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Aug. 20, 1908

19 28.0	H.R. 7388	62.2	55 30			
19.7	322.0	72.2	4.6 / 57.6	55 72.2	42 / +12	
8.3	294.2	65.6		85.6		
.56	302.6	137.8		157.8		✓
49.8	28.2	+0.82		+0.42		
41.5						
4.6						
19 28.8		62.7	55 30			
	126.2	84.5		84.5		
	210.7	74.5		74.5		
	217.8	159.0		159.0		
	292.3	+0.40		+0.40		✓
19 30.5	H.R. 7393	63.3	55 11			
20.4	37.0	74.4	5.8 / 57.5	55 74.4	22 / +11	
10.1	111.4	90.8		90.8		
.57	118.4	165.2		165.2		
70.7	209.2	+0.28		+0.28		✓
50.5						
5.8						
19 31.2		64.0	55 11			
	303.0	85.9		85.9		
	28.9	68.5		68.5		
	40.7	154.4		154.4		
	109.2	+0.49		+0.49		✓
19 32.8	H.R. 7434	60.2	58 01			
	215.2	78.8		78.8		
	294.0	84.0		84.0		
	302.8	162.8		162.8		
	26.8	+0.33		+0.33		✓

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1908phae.proj.1255.

Aug, 20, 1908

J.D. 8174 = c⁶

19 33,7 H.R. 7434 60.5 58 01

116.4	93.0	93.0
209.4	87.8	77.8
214.0	180.8	170.8
291.8	~~−0.02~~ +0.17	+0.17 ✓

19 35,3 H.R. 7435 60.6 66 48

38.9	71.0	71.0
109.9	81.0	81.0
123.0	152.0	152.0
204.0	+0.54	+0.54 ✓

19 36.1 60.9 66 48

299.1	88.3	88.3
27.4	75.1	75.1
35.1	163.4	163.4
110.2	+0.32	+0.32 ✓

Assume b −66° 3442, 7.3

19 41.2 H.R. 7455 63.6 66 00

296.0	63.8 (4.7 a, 58.9)	63.8 − 66 (8 a, +8)
289.8	67.5	67.5
307.4	131.3	131.3
14.9	+0.95 (6.0 b, 57.6)	+0.95 ✓ −66 (11 b, +11)

19 42.0 63.9 66 00

122.2	76.1 (5.0, 58.9)	76.1
198.3	64.5	64.5
222.6	140.6	140.6
287.1	+0.76	+0.76 ✓

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1908phae.proj.1255.

Aug. 20, 1908

19 44.0	H.R. 7461	67.3	45 70
	39.5	72.7	72.7
	112.2	94.4	94.4
	117.0	167.1	167.1
	211.4	+0.24	+0.24 ✓
19 44.7		67.7	45 21
	296.9	95.5	95.5
	32.4	73.3	73.3
	34.9	168.8	168.8
	105.2	+0.21	+0.21 ✓
19 46.6	H.R. 7521	61.9	53 50
	216.1	81.1	81.1
	297.2	92.1	92.1
	300.8	173.2	173.2
	32.9	+0.13	+0.13 ✓
	~~+20~~		
19 47.6		62.3	53 50
	120.4	88.0	88.0
	208.4	75.9	75.9
	212.4	163.9	163.9
	288.3	+0.30	+0.30 ✓
19 49.6	H.R. 7513	67.0	66 51
	45.9	67.7	67.7
	113.6	86.8	86.8
	120.9	154.5	154.5
	207.7	+0.49	+0.49 ✓

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1908phae.proj.1255.

Aug 20, 1908

J.D. 8174 = e⁶

19 50.3	H.R. 7513	67.2	66 51
	301.9	90.4	90.4
	32.3	70.6	70.6
	35.2	161.0	161.0
	108.9	+0.36	+0.36 ✓
19 55.8	H.R. 7524	64.9	65 48
	209.4	84.2	84.2
	293.6	94.9	94.9
	295.1	179.1	179.1
	30.0	+0.02	+0.02 ✓
19 56.6		65.2	65 08
	121.0	88.1	88.1
	209.1	77.1	77.1
	216.7	165.2	165.2
	293.6	+0.28	+0.28 ✓
19 58.5	H.R. 7537	69.7	47 41
	34.7	82.5	82.5
	117.2	95.6	95.6
	118.4	178.1	178.1
	214.0	+0.03	+0.03 ✓
19 59.5		69.9	47 41
	295.1	100.8	100.8
	35.9	81.4	81.4
	35.7	182.2	182.2 ✓
	117.1	−0.04	−0.04

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1908phae.proj.1255.

20 00.8 H.R. 7538 74, 28 49

19 41.4 213.0 83.4 83.4 −29 6

19.4 296.4 ~~78~~ 75.3 83.3 +17

.87 304.9 158.7 166.7

1358 28.2 +0.41 +0.25 +0.25 ✓

1552

16.9

20 01.7 75.3 28 49

19 41.4 116.9 89.3 17.7 89.3 −29 6

20.3 206.2 85.4 57.6 86.4 +17

.87 210.7 174.7 174.7

1421 296.1 +0.10 +0.10 ✓

1624

17.7

20 03.3 H.R. 7578 72.2 23 58

38.0 ~~79~~.2 79.2

117.2 ~~89~~.3 87.3

120.8 166.5 166.5

208.1 +0.25 +0.25 ✓

20 ~~04~~.0 72.9 23 58

297.6 93.5 93.5

31.1 ~~79~~.0 79.0

37.0 172.5 172.5

116.0 +0.14 +0.14 ✓

~~H.R. 7586~~

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1908phae.proj.1255.

Aug 20, 1908

J.D. 8174 = c⁶

20 05.8	H.R. 7586	68.4	5 8 07
	227.0	61.8	61.8
	288.8	82.7	82.7
	303.7	144.5	144.5
	26.4	+0.68	+0.68 ✓
20 06.5		68.8	5 8 07
	129.1	76.7	76.7
	205.8	59.1	59.1
	227.3	135.8	135.8
	286.4	+0.86	+0.86 ✓
20 08.1	H.R. 7627	69.9	43 10
	40.1	76.0	76.0
	116.1	91.5	91.5
	122.4	167.5	167.5
	213.9	+0.24	+0.24 ✓
20 08.5		70.2	43 10
	296.8	95.1	95.1
	31.9	76.2	76.2
	37.9	171.3	171.3
	114.1	+0.16	+0.16 ✓
20 10.5	H.R. 7639	71.0	40 54
	221.9	69.8	69.8
	291.7	84.4	84.4
	306.2	154.2	154.2
	30.6	+0.49	+0.49 ✓

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1908phae.proj.1255.

Aug. 20, 1908

20 11.5	H.R. 7639	71.5	40 54
	123.2	76.9	76.9
	200.1	79.4	79.4
	212.7	156.3	156.3
	292.1	+0.45	+0.45 ✓
20 13.4	H.R. 7644	66.0	67 30
	38.7	69.1	69.1
	107.8	86.6	86.6
	121.8	155.1	155.1
	207.8	+0.48	+0.48 ✓
20 14.0		66.2	67 30
	302.4	87.9	87.9
	30.3	78.8	78.8
	360	166.7	166.7
	114.8	+0.25	+0.25 ✓
20 15.6	H.R. 7663	65.7	66 32
	224.8	62.0	62.0
	286.8	87.1	87.1
	302.9	149.1	149.1
	30.0	+0.59	+0.59 ✓
20 16.0		66.0	66 32
	124.7	77.1	77.1
	201.8	65.7	65.7
	224.0	142.8	142.8
	289.7	+0.72	+0.72 ✓

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1908phae.proj.1255.

Aug 20, 1908.

J.D. 8174 = c⁶

20 17.5 H.R. 7674 69.3 55 11

38.2 73.6 73.6
111.8 88.4 88.4
119.8 162.0 162.8
208.2 +0.34 +0.34 ✓

20 18.1 69.8 55 11

299.2 91.2 91.2
30.4 72.6 72.6
40.1 163.8 163.8
112.7 +0.31 +0.31 ✓

20 ~~20.6~~ 19 H.R. 7691 68.2 57 41

220.7 ~~7~~ 1.6 71.6
292.3 85.3 85.3
299.7 15~~6~~.9 156.9
25.0 +0.44 +0.44 ✓

20 20.3 68.5 57 41

118.0 89.1 89.1
207.1 68.9 68.9
220.0 158.0 158.0
288.9 +0.42 +0.42 ✓

Assume. −43° 13' 15", 7.0 42 assume.

20 22.4 H.R. 7706 67.3 52 57

20 3.8 a 9.7 b 46.2 62.8 13.6 / 53.7 a. 62.8 −43 9 a
18.6 12.7 109.0 63.7 63.7 +12
.73 .73
358 381 134.7 126.5 126.5
130 2 889 195.4 +1.05 9.3 b / 58.0 +1.05 ✓ −43 14 b
13.6 9.3 +17

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1908phae.proj.1255.

Assume.

Aug 20, 1908

−43° 18915, 7.0

20 23.2 H.R. 7706

9.7 b	3.18 a	306.9	67.9	42 57	
13.5	19.4	23.9	77.0 142/537 a	77.0 −43 9 a	
.73	.73	44.6	63.0	63.0	+12
405	582	107.6	140.0	140.0	
945	1358		+0.77 9.9 b / 58.0	+0.77 ✓	−43 14 b / +17
9.9	14.2				

20 26.5 H.R. 7707

214.6	74.6	74.6
289.2	87.3	87.3
301.1	161.9	161.9
28.4	+0.34	+0.34 ✓

20 27.	68.7	63 38.
120.1	~~74.6~~	88.3 88.3
208.4	8 ~~7~~ 3	84.6 84.6
213.2	~~161.9~~	172.9 172.9
297.8		+0.13 +0.13 ✓

20 28.2 H.R. 7732

37.8	67.3	63 28
108.9	71.1	71.1
125.2	74.6	74.6
199.8	145.7	145.7
	+0.66	+0.66 ✓

20 39.2	68.0	
301.8	88.2	88.2
30.0	58.9	58.9
45.0	147.1	147.1
103.9	+0.62 3	+0.63 ✓

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1908phae.proj.1255.

J.D. 8174 = c^6

20 30.8 — H.R. 7745 — 71.8 — 47 53

20 10.0 — 214.2 — 79.9 (13.9 / 57.9) — 79.9 − 48 6 (+13)

20.8 — 294.1 — 92.2 — 92.2

.67 — 298.2 — 172.1 — 172.1

1456 — 30.4 — +0.15 — +0.15 ✓

1248

13.9

20 31.5 — 72.1

127.0 — 75.7 — 75.7

202.7 — 79.6 — 69.6

220.8 — 155.3 — 145.3

290.4 — +0.47 — +0.67 ✓

20 32.4 — H.R. 7749 — 72.5 — 47 48

10.3 — 35.9 — 70.5 (14.8 / 58.0) — 70.5 − 47 58 (+10)

22.1 — 106.4 — 76.4 — 76.4

.67 — 125.8 — 146.9 — 146.9

1547 — 202.2 — +0.64 — +0.64 ✓

1326

14.8

20 33.2 — 73.2 — 47 48

300.0 — 88.2 — 88.2

28.2 — 75.1 — 75.1

36.3 — 163.3 — 163.3

111.4 — +0.32 — +0.32 ✓

20 35.6 — H.R. 7758 — 71.8 — 55 17

215.1 — 78.0 — 78.0

293.1 — 75.5 — 75.5

305.2 — 153.5 — 153.5 ✓

20.7 — +0.51 — +0.51

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1908phae.proj.1255.

J.D. 8174 = c^6

20 36.4	H.R. 7758	72.1	55 17
	122.8	74.5	74.5
	197.3	69.8	69.8
	218.2	144.3	144.3
	288.0	+0.69	+0.69 √
20 39.5	H.R. 7766	75.4	50 13
	42.8	71.4	71.4
	114.2	80.2	80.2
	124.8	151.6	151.6
	205.0	+0.54	+0.54 √
20 40.3		76.0	50 13
	299.3	85.5	85.5
	24.8	72.0	72.0
	37.2	157.5	157.5
	109.2	+0.43	+0.43 √
20 41.5	σ Oct.	59.9	89 09
	207.9	92.1	92.1
	300.0	107.5	107.5
	289.0	199.6	199.6
	36.5	−0.37	−0.37 √
20 42.3		59.9	89 09
	118.1	91.9	91.9
	210.0	93.1	93.1
	206.8	185.0	185.0
	299.9	−0.09	−0.09 √

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1908phae.proj.1255.

Monday August 25, 1908

Series d 6.

J.D. 8179 = d^6

18 47.2	σ Oct.	58.6	88	11
	31.4	88.7	88.7	
	120.1	102.4	102.4	
	112.8	191.1	191.1	
	215.2	−0.21	−0.21 ✓	
18 48.0		58.6	88	11
	288.1	107.1	107.1	
	30.2	88.4	88.4	
	28.8	195.5	195.5	
	117.2	−0.29	−0.29 ✓	
18 49.6	H.R. 7111	59.6	62	49
	217.2	74.0	74.0	
	291.2	84.1	84.1	
	301.8	158.1	158.1	
	25.9	+0.42	+0.42 ✓	
18 50.5		59.9	62	47
	123.8	82.3	82.3	
	206.1	70.6	70.6	
	217.8	152.9	152.9	
	288.4	+0.52	+0.52 ✓	
18 51.9	H.R. 7130	59.5	66	39
	40.9	75.2	75.2	
	116.1	95.0	95.0	
	118.3	170.2	170.2	
	213.3	+0.19	+0.19 ✓	

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1908phae.proj.1255.

Aug. 25, 1908

18 52.9	H.R. 7130	59.7	66 39
18 47.4	292.4	100.6 2.1 57.6	100.6 − 66 49
5.5	33.0	73.7	73.7 +10
.39	35.2	174.3	174.3
79.5	108.9	+0.11	+0.11 ✓
16 5			
2.1			
18 54.9	H.R. 7159	60.6	22 21
	207.9	84.3	84.3
	292.2	87.6	87.6
	301.2	171.9	171.9
	28.5	+0.15	+0.15 ✓
18 55.8		61.2	22 19
	123.3	87.6	87.6
	210.9	85.2	85.2
	211.8	172.8	172.8
	297.0	+0.14	+0.14 ✓
18 57.2	H.R. 7177	60.1	41 58
	36.3	76.5	76.5
	112.8	89.2	89.2
	118.8	165.7	165.7
	208.0	+0.27	+0.27 ✓
18 57.9		60.4	41 50
	297.1	94.5	94.5
	31.6	74.8	74.8
	36.2	169.3	169.3
	111.0	+0.20	+0.20 ✓

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1900phae.proj.1255.

Aug. 25, 1908

J.D. 8179 = d6

19 00.8	H.R. 7182	63.0	22 31
	218.2	80.6	80.6
	298.8	86.3	86.3
	301.7	166.9	166.9
	28.0	+0.25	+0.23 ✓
19 01.6		64.0	22 31
	123.8	83.3	83.3
	207.1	87.0	87.0
	210.9	170.3	170.3
	297.9	+0.18	+0.18 ✓
19 03.0	H.R. 7223	100.9	48 18
	32.4	87.7	87.7
	120.1	90.3	90.3
	117.7	178.0	178.0
	205.0	+0.04	+0.04 ✓
19 03.7		61.3	48 18
	296.0	100.8	109.8
	36.8	90.4	90.4
	30.9	191.2	191.2
	121.3	−0.21	−0.21 ✓
19 05.2	H.R. 7233	61.1	55 43
	220.2	64.6	64.6
	284.8	79.5	79.5
	305.2	144.1	144.1
	24.7	+0.69	+0.69 ✓

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19 05.9	H.R. 7233	61.4	55 43
	126.4	78.0	78.0
	201.4	75.3	75.3
	212.9	153.3	153.3
	288.2	+0.51	+0.51 ✓
19 07.0	H.R. 7240	63.7	28 29
	31.8	86.6	86.6
	118.4	96.7	96.7
	117.2	183.3	183.3
	213.9	−0.06	−0.06 ✓
19 07.7		64.3	28 24
	300.2	95.0	95.0
	35.2	83.1	83.1
	35.8	178.1	178.1
	115.9	+0.03	+0.03 ✓
19 10.8	H.R. 7271	62.2	30 30
	215.0	74.7	74.7
	289.7	85.0	85.0
	305.0	159.7	159.7
	30.0	+0.39	+0.39 ✓
19 11.7		62.8	30 30
	122.0	88.7	88.7
	210.7	80.3	80.3
	213.9	169.0	169.0
	294.2	+0.21	+0.21 ✓

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Assume
-68° 3185, 66

Assume.
-69° 2962, 66

Aug 25, 1908

J.D. 8179 = d 6

19 13.3 | H.R. 7274 | 63.8 | 68 29

18 56.6	8.0	243	98.7	98.7
16.7	10.3	123.0	107.0	107.0
.86	.35	109.0	205.7	205.7
1002	5 15		−0.49	−0.49
501.	308			
5.1	8.6			

19 14.8 | H | 64.0 | 68 31

18 56.6	2160	107.1	107.1
18.2	291.8	100.1	100.1
.86	38.4	207.2	207.2
1092	27.9	−0.52	−0.52
546	128.0		
6.6			

19 16.6 | H.R. 7276 | 68.3 | 21 32

	218.1	73.1	73.1
	291.2	88.2	87.2
	301.8	160.3	160.3
	29.0	+0.38	+0.38

19 17.4 | 68.9 | 21 32

	122.2	81.6	81.6
	203.8	80.2	80.2
	212.7	161.8	161.8
	292.9	+0.35	+0.35

19 19.2 | H.R. 7277 | 69.8 | 25 50

	29.2	94.8	94.8
	124.0	99.0	99.0
	116.6	193.8	193.8
	215.6	−0.26	−0.26

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19 V20.8	H.R. 7277	70.2	25 50
	295.8	99.1	99.1
	34.9	96.3	96.3
	26.0	195.4	195.4
	122.3	−0.29	−0.29 ✓
19 21.5	H.R. 7297	66.0	53 29
	216.2	74.9	74.9
	291.1	89.9	89.9
	298.8	164.8	164.8
	28.7	+0.29	+0.29 ✓
19 22.2		66.4	53 28
	123.1	80.9	80.9
	204.0	78.8	78.8
	215.3	159.7	159.7
	294.1	+0.39	+0.39 ✓
19 23.6	H.R. 7320	62.1	68 27
11.0	41.0	65.2	65.2
12.6	106.2	77.0	77.0
.36	124.1	142.2	142.2
756	201.1	+0.73	+0.73 ✓
378			
4.5			
		4.5 / 57.6	68 − 36 / 79
19 24.4		62.3	68 28
	304.7	81.5	81.5
	26.2	66.9	66.9
	39.8	148.4	148.4
	106.7	+0.61	+0.61 ✓

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Aug 25, 1905

J.D. 8179 = d 6

19 26.0	HR. 7334		67.2	42 00
	211.1		81.8	81.8
	292.9		86.2	86.2
	304.6		168.0	168.0
	30.8		+0.23	+0.23
19 26.8			67.8	42 00
	122.0		84.1	84.1
	206.1		73.2	73.2
	216.2		157.3	157.3
	289.4		+0.43	+0.43
19 28.6	HR. 7350		67.4	43 43
	34.8		78.9	78.9
	113.7		81.3	81.3
	126.1		160.2	160.2
	207.4		+0.38	+0.38
19 29.5			68.0	43 43
	299.3		93.1	93.1
	32.4		75.2	75.2
	32.6		168.3	168.3
	107.8		+0.22	+0.22
19 31.1	HR 7360		69.7	29 17
	209.1		88.3	88.3
	297.4		100.2	100.2
	297.8		188.5	188.5
	38.0		−0.16	−0.16

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Aug 25, 1905

19 31.7	H.R. 7360	70.1	29 17
	121.9	93.4	93.4
	215.3	88.2	88.2
	210.1	181.6	181.6
	298.3	-0.03	-0.03 ✓
19 45.9	H.R. 7537	60.8	47 39
	32.2	88.8	88.8
	121.0	94.9	94.9
	115.6	183.7	183.7
	213.7	-0.07	-0.07 ✓
19 46.6		67.2	47 39
	299.0	92.8	92.8
	318	94.4	94.4
	27.0	187.2	187.2
	121.4	-0.14	-0.14 ✓
19 48.2	H.R. 7538	63.2	28 47
	209.2	85.5	85.5
	294.9	101.3	101.3
	295.6	186.8	186.8
	36.9	-0.13	-0.13 ✓
19 49.0		63.9	28 47
	124.3	87.5	87.5
	211.8	80.9	80.9
	217.0	168.4	168.4
	297.9	+0.22	+0.22 ✓

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Aug 25, 1908

J.D. 8179 = d 6

19 50.8	H.R. 7578	60.4	23 53
	38.0	82.7	82.7
	120.7	89.5	89.5
	120.4	172.2	172.2
	209.9	+0.15	+0.15 ✓
19 51.5		61.2	23 53
	297.0	95.4	95.4
	32.4	87.5	87.5
	32.9	182.9	182.9
	120.4	-0.05	-0.05 ✓
19 52.8	H.R. 7586	60.9	58 00
	224.0	66.9	66.9
	290.9	76.2	76.2
	305.2	143.8	143.1
	24.4	+0.71	+0.71 ✓
19 53.5		61.2	58 00
	125.9	81.2	81.2
	207.1	72.8	72.8
	215.4	154.0	154.0
	285.2	+0.50	+0.50 ✓
19 54.8	H.R. 7627	59.5	43 03
	42.3	73.9	73.9
	116.2	92.8	92.8
	119.4	166.7	166.7 ✓
	212.2	+0.25	+0.25

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Aug. 25, 1908

19 55.5	H.R. 7627	60.1	43 03
	299.7	91.5	91.5
	31.2	82.7	82.7
	33.9	174.2	174.2
	116.6	+0.11	+0.11 ✓
19 56.8	H.R. 7639	60.2	40 51.
	216.2	72.2	72.2
	288.4	87.5	87.5
	301.2	159.7	159.7
	287	+0.39	+0.39 ✓
19 57.5		60.8	40 51
	123.1	84.6	84.6
	207.7	77.9	77.9
	217.2	162.5	162.5
	295.1	+0.33	+0.33 ✓
19 59.1	H.R. 7644	60.0	67 24
	39.9	78.2	78.2
	118.1	90.3	90.3
	120.6	168.5	168.5
	210.9	+0.22	+0.22 ✓
30 19 59.8		60.2	67 24
	297.0	96.4	96.4
	33.4	76.2	76.2
	37.0	172.6	172.6
	113.2	+0.14	+0.14 ✓

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J.D. 8179 = d6

20 01.5	H.R. 7663	59.8	66 29
	220.9	70.0	70.0
	290.9	84.6	84.6
	302.2	154.6	154.6
	26.8	+0.49	+0.49 ✓
20 02.3		59.9	66 29
	127.0	78.4	78.4
	205.4	69.4	69.4
	220.4	147.8	147.8
	289.8	+0.62	+0.62 ✓
20 03.4	H.R. 7674	60.9	55 08
	36.3	78.9	78.9
	115.2	81.1	81.1
	123.9	160.0	160.0
	205.0	+0.38	+0.38 ✓
20 04.2		61.0	55 08
	298.3	90.7	90.7
	29.0	78.4	78.4
	37.2	169.1	169.1
	115.6	+0.20	+0.20 ✓
20 05.7	H.R. 7691	62.2	57 39
	216.7	75.1	75.1
	291.8	82.0	82.6
	301.8	157.1	157.1
	23.8	+0.44	+0.44 ✓

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Aug 25, 1908

20 06.4	H.R. 7691	60.6	57 39
	121.2	81.6	81.6
	202.8	70.6	70.6
	220.0	152.2	152.2
	290.6	+0.53	+0.53 ✓
20 07.7	H.R. 7706	60.3	42 51
	37.1	78.9	78.9
	116.0	91.3	91.3
	118.5	170.2	170.2
	209.8	+0.19	+0.19 ✓
20 08.5		60.9	42 51
	300.1	88.9	88.9
	29.0	86.1	86.1
	32.7	175.0	175.0
	118.6	+0.09	+0.09 ✓
20 10.2	H.R. 7707	60.9	63 36
	215.8	77.3	77.3
	293.1	92.9	92.9
	300.9	170.2	170.2
	33.8	+0.19	+0.19 ✓
20 11.0		61.1	63 36
	118.9	93.9	93.9
	212.8	77.8	77.8
	215.9	171.7	171.7
	293.7	+0.16	+0.16 ✓

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Aug. 25, 1908

J.D. 8179 = d 6

20 12.4	H.R. 7732	60.0	63 22
	43.2	75.0	75.0
	118.2	79.9	79.9
	118.3	154.9	154.9
	198.2	+0.48	+0.48 ✓
20 13.0		60.1	63 22
	297.1	90.3	90.3
	27.4	77.8	77.8
	36.2	168.1	168.1
	114.0	+0.22	+0.22 ✓
20 14.4	H.R. 7745	60.6	47 50
	218.1	78.2	78.2
	296.3	88.5	88.5
	302.3	166.7	166.7
	30.8	+0.25	+0.25 ✓
20 15.2		61.0	47 50
	125.3	80.7	80.7
	206.0	74.5	74.5
	216.7	155.2	155.2
	291.2	+0.47	+0.47 ✓
20 16.2	H.R. 7749	61.5	47 d
	36.3	77.8	77.8
	114.1	91.9	91.9
	120.7	169.7	169.7 ✓
	212.6	+0.20	+0.20

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Aug 25, 1908

20 17.0	H.R. 7749	62.0	47 VI
	295.7	94.7	94.7
	30.4	72.9	72.9
	37.1	167.6	167.6
	110.0	+0.24	+0.24
20 18.6	H.R. 7758	62.1	55 II
	219.4	73.4	73.4
	292.8	93.0	93.0
	300.1	166.4	166.4
	33.1	+0.26	+0.26
20 19.5		62.6	55 II
	122.1	85.7	85.7
	207.8	78.3	78.3
	212.8	164.0	164.0
	291.1	+0.30	+0.30
20 20.8	H.R. 7766	62.9	50 06
	43.4	65.1	65.1
	105.5	81.3	81.3
	118.6	146.4	146.4
	199.9	+0.65	+0.65
20 21.8		63.8	50 06
	292.8	89.9	89.9
	28.7	73.0	73.0
	39.2	162.9	162.9
	112	+0.32	+0.32

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Aug 25, 1908

J.D. 8179 = d^6

20 23.7	H.R. 7799	62.2	40 52
	212.3	84.7	84.7
	297.0	97.4	97.4
	298.8	182.1	182.1
	362	−0.04	−0.04 ✓
20 24.4		62.7	40 57
	115.8	92.9	92.9
	208.7	82.9	82.9
	215.0	175.8	175.8
	297.9	+0.08	+0.08 ✓
20 26.7	H.R. 7825	61.3	22 21
	36.9	81.9	81.9
	118.8	88.0	88.0
	119.3	169.9	169.9
	207.2	+0.19	+0.19 ✓
20 27.5		62.0	22 21
	300.0	88.8	88.8
	28.8	82.3	82.3
	35.9	171.1	171.1
	118.2	+0.17	+0.17 ✓
20 29.2	H.R. 7832	62.3	29 09
	212.7	78.5	78.5
	291.2	85.5	85.5
	304.7	164.0	164.0
	30.2	+0.30	+0.30 ✓

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Aug 25, 1908

20 29.9 H.R. 7832 63.1 29 09

23.3 122.0 84.9 5.7 57.4 85.9 −29 32

6.6 207.9 74.8 74.8 +23

.87 217.1 159.7 160.7

462 291.9 +0.39 +0.37 ✓

528

5.7

20 31.4 H.R 7842 62.8 24 58

20 25.4 31.0 82.0 5.5 57.3 82.0 −25 22

6.0 113.0 88.5 88.5 +24

.91 121.3 170.5 170.5

5.460 209.8 +0.18 +0.18 ✓

20 32.2 63.3 24 54

299.2 91.7 91.7

30.9 77.6 77.6

35.4 169.3 169.3

113.0 +0.20 +0.20 ✓

20 33.6 H.R. 7877 60.2 25 11

20 30.4 217.6 78.2 2.9 57.3 78.2 − 25 32

3.2 295.8 90.5 90.5 +21

.90 300.8 168.7 168.7

2880 31.3 +0.21 +0.21 ✓

20 34.3 60.9 25 11

126.4 82.3 82.3

205.7 75.1 75.1

219.2 157.4 157.4

292.3 +0.43 +0.43 ✓

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Aug 25, 1908

J.D. 8179 = d6

20 35.6 H.R. 7872 608 63 06

41.6 72.9 72.9

114.3 84.9 84.9

123.8 157.8 157.8

208.7 + 0.42 +0.42 ✓

20 36.3 61.0 63 07

300.1 87.6 87.6

27.7 72.6 72.6

39.2 160.2 160.2

111.8 + 0.38 +0.38 ✓

-24°16134, 7.5 -24° 16161, 6.8

20 35.2 H.R. 7898 65.0 24 24

20 32.8 33.0 2328 40.8 4.9 40.8 − 24 13

28.4 9.4 6.2 2726 44.8 44.8

9.8 .91 .91 3195 85.6 84.8 8.56

.91 54 52 4.6 + 2.03 4.7 +2.03 ✓ − 24 33

98 486 468 8.9 − 24 48 − 24 40

882 4.9 4.7 56.1 6.8 +24 +9 +16

89 30.7 58.2

9.5.91

675

6.8 144.8

20 39.0 65.8 24 24

30.7 28.4 184.2 39.4 9.6 39.4

8.3 10.6 231.1 42.7 42.7

.91 .91 272.5 82.1 82.1

83 106 + 2.13 7.6 +2.13 ✓

747 954 58.2

7.6 9.6

20 40.3 H.R. 7902 64.2 26 42

33.1 41.9 68.0 6.4 68.0 − 27 6

7.2 109.9 81.4 57.8 81.4 +24

.89 125.9 149.4 149.4 ✓

648 207.3 + 0.59 +0.59

576

6.4

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Aug 25, 1908

20 41.2	H.R. 7902	65.0	26 42
	300.6	84.4	84.4
	25.0	73.7	73.7
	40.1	158.1	158.1
	113.8	+0.42	+0.42 ✓
20 42.6	HR 7910	65.6	26 00
	210.0	83.7	83.7
	293.7	94.5	94.5
	299.1	178.2	178.2
	33.6	+0.03	+0.03 ✓
20 43.3		66.1	26 00
	117.6	90.2	90.2
	207.8	83.1	83.1
	214.3	173.3	173.3
	297.4	+0.13	+0.13 ✓
20 44.7	HR 7931	63.8	27 19
	38.0	70.2	70.2
	108.2	74.0	74.0
	125.9	144.2	144.2
	199.9	+0.69	+0.69 ✓
20 45.4		64.4	27 19
	298.2	84.2	84.2
	22.4	77.8	77.8
	36.0	162.0	162.0
	113.8	+0.34	+0.34 ✓

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Aug 25, 1908

J.D. 8179 = d6

20 46.9	H.R. 7989	58.8	23 52
	215.2	77.9	77.9
	293.1	96.5 9	95.9
	298.9	174.3 8	173.8
	34.8	+ 0.10 2	+0.12 ✓
20 47.7		59.3	23 52
	121.7	90.7	90.7
	212.4	85.2	85.2
	213.5	175.9	175.9
	298.7	+ 0.08	+0.08 ✓
20 49.2	H.R. 7991	60.1	50 57
	38.2	73.1	73.1
	111.3	85.9	85.9
	122.3	159.0	159.0
	208.2	+ 0.40	+0.40 ✓
20 48 49.9		60.3	50 57
	300.0	92.0	92.0
	320	73.7	73.7
	40.2	165.7	165.7
	113.9	+ 0.27	+0.27 ✓
20 51.5	O Oct.	60.1	58 12
	208.1	92.5	92.5
	300.6	184.2 0	104.2
	292.9	186.7	196.7 ✓
	37.1	9 - 0.32	-0.32

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Aug 25, 1908

20 52,2	♂ Oct.	60.1	8 8 12
	115.8	102.3	102.3
	218.1	94.9	94.9
	207.3	197.2	197.2
	302.2	−0.33	−0.33 ✓

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Wednesday aug 26. 1908.

Series e6

J. D. 8180 = e6

18 45.0	ζ Oct	58.9	89 16
	29.9	84.9	84.9
	114.8	98.4	98.4
	117.0	183.3	183.3
	215.4	-0.06	-0.06 ✓
18 46.5		58.8	89 16
	297.1	99.7	99.7
	36.8	85.1	85.1
	34.8	184.8	184.8
	119.9	-0.09	-0.09 ✓
18. 59.4	H.R. 7093	68.0	51.58
	221.0	67.3	67.3
	288.3	94.1	94.1
	295.3	161.4	161.4
	29.4	+0.35	+0.35 ✓
19 01.5		68.4	51 58
	119.8	87.3	87.3
	207.1	70.4	70.4
	219.4	157.7	157.7
	289.8	+0.43	+0.43 ✓
19 03.5	H.R. 7095	70.9	48 25
	36.1	76.6	76.6
	112.7	88.9	88.9
	118.1	165.5	165.5
	207.0	+0.27	+0.27 ✓

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19 04.8		71.8	48 20⁻
	300.6	89.8	89.8
	30.4	77.0	77.0
	36.9	166.8	166.8
	113.9	+0.25	+0.25 J
19 07.3	HR. 7103	78.1	26.35
	218.0	73.8	73.8
	291.8	88.3	88.3
	302.6	162.1	162.1
	30.9	+0.34	+0.34 J
19 08.6		79.0	26 35⁻
	123.5⁻	79.6	79.6
	203.1	75.5	75.5
	215.0	155.1	155.1
	290.5⁻	+0.48	+0.48 J
19 11.0	H.R. 7104	80.6	29 23
	30.5⁻	85.3	85.3
	115.8	91.8	91.8
	119.2	177.1	177.1
	211.0	+0.05	+0.05 J
19 12.4		81.5⁻	29 23
	299.5⁻	91.0	91.0
	30.5⁻	81.0	81.0
	210.1	172.0	172.0
	291.1	+0.15	+0.15 J

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H. R. 7221
−68° 3185, 6.6 Assume.

Aug 26. 1908.

J.D. .8180 = e⁶

19 17.3	H.R. 7320	65.8	68 35	
1856.6 b 11.9 a	26.8	92.1 2.3 a	−68 92.1	36 a
20.7 6 3	118.9	63.5		+
.36 .36	110.5−	102.8	102.8	
1242 878	213.3	194.9	194.9	
621 189		1 − 0.28 7.5 b	−0.28 ✓	−68 87 b
7.5 2.26		58.3		+2
19 17.8		66.0	68 35	
	291.5−	106.6	106.6	
	38.1	98.5	98.5	
	24.0	205.1	205.1	
	122.5−	− 0.48	−0.48 ✓	
19 23.4	H.R 7334	65.3	42 00	
	215.2	76.6	76.6	
	291.8	84.5	84.5	
	302.0	161.1	161.1	
	26.5−	+ 0.36	+0.36 ✓	
19 24.8		66.5−	42 00	
	123.4	84.8	84.8	
	208.2	76.3	76.3	
	216.2	161.1	161.1	
	292.5−	+ 0.36	+0.36 ✓	
19 27.7	H.R. 7350	67.1	43 43	
	35.3	80.6	80.6	
	115.9	88.9	88.9	
	119.3	169.5	169.5 ✓	
	208.2	+ 0.20	+0.20	

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Aug 26. 1908.

19 27.9		67.9	43 43
	298.9	91.9	91.1
	30.0	78.6	78.6
	35.4	169.5	169.7
	114.0	+0.18 +0.20 ✓	+0.20 ✓
19 31.4	H.R. 7360	69.8	29 12
	209.8	86.8	86.8
	296.6	94.3	94.3
	296.8	181.1	181.1
	31.1	−0.02	−0.02 ✓
19 32.6		70.8	29 12
	121.8	90.7	90.7
	212.5	92.8	92.8
	206.7	183.5	183.5
	299.5	−0.06	−0.06 ✓
19 35.1	H.R. 7383	64.2	68 35
18.2 / 16.9 / .36 / 1014 / 507 / 6.1	36.4	75.6 6.1 / 58.1	75.6 − 68 41 +6
	112.0	83.0	83.6
	123.0	158.6	158.6
	206.0	+0.41	+0.41 ✓
19 36.3		64.8	68 35
	306.3	87.0	87.0
	33.3	75.3	76.3
	37.2	162.3	163.3
	113.5	+0.34 2	+0.32 ✓

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Aug. 26. 1908.

J.D. 8180 = e⁶

19 38.4	H.R. 7388		68.9	55	32
		218.3	71.0	71.0	
		289.3	90.5	90.5	
		298.9	161.5	161.5	
		29.4	+0.35	+0.35 ✓	
19 39.6			69.3	55	32
		123.6	85.3	85.3	
		208.9	75.9	75.9	
		215.2	161.2	161.2	
		291.1	+0.36	+0.36 ✓	
20 00.6	H.R. 7663		59.4	66	31
19 56.4		40.4	70.6 (1.7 / 57.7)	70.6 − 66 (43 / +12)	
4.2		111.0	77.0	77.0	
40		127.0	147.6	147.6	
1680		204.0	+0.62	+0.62 ✓	
20 01.5			60.1	66	31
		305.3	~~60.1~~	78.6	
		23.9	77.8 6	72.1	
		39.1	72.1	150.7	
		111.2	149.9 7 (5 / 0)	+0.56 ✓	
			+0.58 6		
20 04.3	H.R. 7674		61.5	55.	10
		213.9	74.3	74.3	
		288.2	89.8	89.8	
		300.0	164.1	164.1 ✓	
		29.8	+0.30	+0.30	

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20 05.6		62.3	55 10	
	117.0	94.0	94.0	
	211.0	75.4	75.4	
	215.5	169.4	169.4	
	290.9	+0.20	+0.20 ✓	
20 10.0	H.R. 7691	62.9	57 40	
	39.0	73.2	73.2	
	112.2	77.4	77.4	
	128.0	150.6	150.6	
	205.4	+0.56	+0.56 ✓	
20 11.1		63.2	57 40	
	302.4	87.0	87.0	
	29.4	69.8 3	69.3	
	40.1	156.8 3	156.3	
	109.4	+0.44 5	+0.45 ✓	
20 15.6	H.R. 7706	68.1	42 52	
	215.1	74.4	74.4	
	289.5	83.4	83.4	
	302.5	157.8	157.8	
	25.9	+0.42	+0.42 ✓	
20 18.0		68.9	42 52	
	123.1	85.2	85.2	
	208.3	82.0	82.0	
	215.8	167.2	167.2	
	297.8	+0.24	+0.24 ✓	

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J.D. 8180 = e^6

20 33.1 H.R. 7842 65.0 25 00

25.4	37.2	73.2 (6.9 / 58.1)	73.2 −25 22
7.7 .90	110.4	83.8	83.8 +22
6.930	122.0	157.0	157.0
	205.8	+0.44	+0.44 ✓

20 34.4 66.2 25 00

302.1	83.4	83.4
25.5	71.9	71.9
38.9	155.3	155.3
110.8	+0.47	+0.47 ✓

20 37.7 H.R. 7872 63.0 63 18

218.0	70.4	70.4
288.4	88.9	88.9
301.1	159.3	159.3
30.0	+0.39	+0.39 ✓

20 37.8 63.9 63 18

120.0	90.3	90.3
210.3	71.8	71.8
221.2	162.1	162.1
Assume b 293.0	+0.34	+0.34 ✓

−24° 16195; 7.2

20 40.3 H.R. 7898 64.5 24 10

33.0 b	32.8 a	47.2	58.0 (6.8 / 57.7) a	58.0	13 a / ~~13~~ +3
7.3	7.5	105.2	58.9	58.9	
.91	.91	133.5	116.9	116.9 ✓b	
73	75				
6577	6758	192.4	+1.26 (6.6 / 57.9)	+1.26 −24	33 b / +23
6.6	6.8				

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1908phae.proj.1255.

aug 26. 1908.

20 41.4		65.9	24	10	
	313.0	58.4	58.4		
	11.4	59.7	59.7		
	43.3	118.1	118.1		
	103.0.	+1.23	+1.23 ✓		
20 43.7	H.R. 7902	68.0	26	43	
33.1	214.4	74.1 9.4 58.6	74.1	−27 6 +23	
10.6	288.5	89.6	89.6		
.89	301.5	163.7	163.7		
9.54	31.1	+0.31	+0.31 ✓		
8.48					
9.4					
20 45.1		68.9	26	43	
	125.6	79.2	79.2		
	204.8	71.2	71.2		
	222.4	150.4	150.4		
	293.6	+0.57	+0.57 ✓		
20 48.0	H.R. 7910	71.1	26	45−	
	40.3	69.7	69.7		
	110.0	81.6	81.6		
	122.4	151.3	151.3		
	204.0	+0.55	+0.55 ✓		
20 52.7		75.8	26	45−	
	299.0	82.1	82.1		
	21.1	68.8	68.8		
	38.6	150.9	150.9		
	107.4	+0.56	+0.56 ✓		

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Aug 26. 1908.

J.D. 8180 = e⁶

20 56.0 H.R. 7931 74.1 27 19

37.7 221.9 66.2 16.3 66.2 − 27 42
18.3 288.1 57.8 72.3 +23
.89 309.0 72.3 138.5
1647 21.3 138.5 +0.80 ✓
1464 +0.80
16.3

20 57.1 75.4 27 19

121.0 80.4 80.4
201.4 67.6 67.6
216.8 148.0 148.0
b 284.4 +0.61 +0.61 ✓

− 75° 1673,80

21 08.0 H.R. 8111 63.5 75 40

20 47.1 4.6 a 55.8 34.2 .8 a 34.2 − 75 52 a
20.9 3.4 90.0 62.7 69.2 +12
.24 .24 69.2
886 136 116.9 103.4
418 68 186.1 +1.57 5.0 b +1.57 ✓ − 75 54 b
5.0 .8 448.8 58.5 +14
808.8

− 75° 1673,80

21 09.5 63.8 75 40

47.1 4.6 a 15.0 325.2 36.1 1.2 a 36.1 75 52 a
22.4 4.9 1.3 62.6 +12
.24 .24 21.1 33.6 33.6
896 196 13.2 57.0 69.7 69.7
448 98 54 b
5.4 1.2 20.4 b 90.6 +2.52 +2.52 ✓
474.1 584
Assume 29° 17504 834.1
69

600 2.86
844 2.07
52.8 3.15
816 2.15

21 13.1 H.R. 8142 73.1 29 12

20 47.1 20 55.4 b 219.8 65.3 .8 65.3 7 a
21 a 26.0 17.7 285.1 71.0 71.0 +5
1.6 24 .87 136.3 136.3
.87 10 40 1239 308.3 +0.85 15.4 b +0.85 ✓ − 24 36 b
112 5 20 +416 19.3 57.7 +24
12.8 6.3 15.4 832.5
1.4

820.6 70.2
205.2 160.2
115.2 250.2
295.2 340.2
45°
250.2

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1908phae.proj.1255.

Assumed
-29° 17504,69

aug 26. 1908

21 14.9

20 55.4 b 11.5 a

19.5 3.4
.87 .87
1365 238
1560 272
17.0 b 3.0

-27° 15266,84? c -27° 15267,80?

123.1
196.1
223,8
284,2

74.1

73.0 5.0 a 7.1 73.0 17 a +5
60.4 60.4
133.4 133.4
17.0 b 57.7
+0.91 +0.91 J -29 86 b +24

21 17.7 HR 8148 72.5 26 40

1.1 b 12.5 a 1.1 c 58.5
16.6 5.2
.89 .89
1494 468
1328 416
14.8 4.6

94.1
144.2
181.0

35.6 4.6 a 67.9 35.6 5-3 a +13
36.8 36.8
72.4 72.4
+2.43 14.8 b 57.7 +2.43 J -27 0 b +20
57.7 c -27 7 c +27

21 18.7 73.3 26 40

326.5
3.0
143.0
182.8

36.5 36.5
39.8 39.8
76.3 76.3
+2.31 +2.31 J

~~21 21.1~~ ~~75.0~~ ~~26~~ ~~40~~

324.0
3.2
56.2
92.3

21 27.5 ♂ Oct 60.1 89 18

210.0
300.1
288.0
33.6

~~90.1~~
105.6
~~95.7~~
~~-0.49~~
-0.30

90.1
105.6
195.7
-0.30 J

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1000phae.proj.1255.

aug 26. 1908.

J.D. 8180 = e⁶

21 28.4		60.2	89	18
	116.9	97.7	97.7	
	214.6	94.6	94.6	
	209.3	192.3	192.3	
	301.9.	−0.23	−0.23 ✓	

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1908phae.proj.1255.

Series f6

Wednesday, Sept 2, 1908

19 05.3	α Oct	58.8	89 09			
	35.1	80.1	80.1			
	115.2	104.0	104.0			
	111.1	184.1	184.1			
	215.1	−0.08	−0.08 ✓			
19 06.5		58.	89 09			
	289.0	108.8	108.8			
	378	83.9	83.9			
	33.2	192.7	192.7			
	117.1	−0.24	−0.24 ✓			
19 08.5	H.R. 7147	69.7	41 51			
18 53.3	205.8	89.0	89.0	−42	5	
15.2	294.8	96.2	96.2		+14	
.74	295.6	185.2	185.2			
608	31.8	−0.10	−0.10 ✓			
1064						
11.2						
19 09.4		70.0	41 51			
	116.1	95.9	95.9			
	212.0	80.1	80.1			
	208.6	176.0	176.0			
	288.7	+0.08	+0.08 ✓			
19 110	H.R. 7182	73.2	22 31			
18 54.1	37.9	73.9	73.9	−22	52	
16.9	111.8	93.6	93.6		+21	
.92	116.3	167.5	167.5			
538	209.9	+0.24	+0.24 ✓			
2521						
24.7						
15.5						

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1908phae.proj.1255.

Sept. 2, 1908

J.D. 8187 = g6

19 11.8 H.R. 7182 74.1 22 31

297.0 91.3 91.3
28.3 74.9 74.9
35.3 166.2 166.2
1102 +0.256 +0.26 ✓

19 14.0 ~~H.R. 7323~~ W.S. 80.4 47 58

18 57.5 32.0 225.9 59.1 10.9 169.5 59.1 − 48 29
36.1 16.5 4.20 98.0 74.4 74.4 +31
37.9 .66 67 308.8 133.5 133.5
66 990 2940 +0.91 +0.91 ✓ −48 12 −48 23
2474 990 2520 232 28.1 +14 +25
2474 10.9 28.1 25.0 2.50 55.4 ~~28.1~~ ~~52.3~~

19 15.8 81.3 47 58

1263 67.7 67.7
1940 57.3 57.3
2246 125.0 125.0
2819 +1.08 +1.08 ✓

19 19.3 H.R. 7233 70.2 55 49

18 58.5 450 63.0 11.6 58.6 63.0 − 55 54
20.8 105.0 77.4 77.4 +5
.56 127.4 140.4 140.4
1248 204.8 +0.77 +0.77 ✓
1040
11.6

19 20.2 70.6

295.8 88.4 88.4
27.2 68.8 68.8
37.9 157.2 157.2
1067 +0.53 +0.43 ✓

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Sept 2, 1908

19 22.1	HR. 7240	78.1	28 37
	212.2	85.1	85.1
	297.3	101.0	101.0
	296.0	186.1	186.1
	37.0	-0.11	-0.11 ✓
19 22.8		78.8	28 36
	117.1	97.2	97.2
	214.3	85.3	85.3
	204.8	182.5	182.5
	290.1	-0.05	-0.05 ✓
19 28.5	HR. 7461 ~~7277~~	57.0	45 19
	36.2	73.8	73.8
	110.0	87.9	87.9
	120.0	161.7	161.7
	207.9	+0.35	+0.35 ✓
19 29.2		57.3	45 19
	296.0	93.3	93.3
	29.3	72.6	72.6
	38.6	165.9	165.9
	111.2	+0.27	+0.27 ✓
19 3	~~HR. 7513~~		

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1908phae.proj.1255.

Sept 21, 1908

J.D. 8787 = f6

19 30.4	H.R. 7513	55.8	66 56
	223.0	66.6	66.6
	289.6	89.8	89.8
	299.9	156.4	156.4
	297	+0.45	+0.45 √
19 31.2		56.0	66 56
	120.5	83.8	83.8
	204.6	66.5	66.5
	219.5	150.3	150.3
	286.3	+0.57	+0.57 √
19 32.5	H.R. 7521	54.6	53 50
	32.4	77.3	77.3
	109.7	85.2	85.2
	120.8	162.5	162.5
	206.0	+0.33	+0.33 √
	Z		
19 33.1		55.0	53 50
	297.8	95.9	95.9
	33.7	73.5	73.5
	35.3	169.4	169.4
	108.4	+0.20	+0.20 √
19 34.9	H.R. 7524	56.9	65 40
	218.6	75.5	75.5
	294.1	101.7	101.7
	293.1	177.2	177.2
	34.8	+0.05	+0.05 √

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Sept 2, 1908

19	31.6	H.R. 7537	57.1	65 40
		117.3	90.8	90.8
		208.1	81.2	81.2
		213.4	172.0	172.0
		294.6	+0.15	+0.15 ✓
19	37.8	H.R. 7537	56.1	47 38
		33.0	79.1	79.1
		112.1	100.8	100.8
		112.1	179.9	179.9
		212.9	+0.00	+0.00 ✓
19	38.8		56.8	47 38
		293.1	~~99.0~~ 104.0	104.0
		37.1	83.9	83.9
		33.2	187.9	187.9
		117.1	−0.15	−0.15 ✓
19	41.2	H.R. 7537	58.1	28 42
		210.8	86.4	86.4
		297.2	86.9	96.9
		294.4	173.3	183.3
		31.3	−0.06	−0.06 ✓
19	42.0		58.7	28 42
		119.0	94.9	94.9
		213.9	84.2	84.2
		208.9	179.1	179.1
		293.1	+0.02	+0.02 ✓

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Sept 2, 1908

J.D. 8187 = f6

19 43.1	H.R. 7578	55.3	23 52
	36.6	80.5	80.5
	117.1	90.0	90.0
	120.2	170.5	170.5
	210.2	+0.18	+0.18 ✓
19 44.3		56.0	23 52
	296.9	95.1	95.1
	320	79.1	79.1
	352.9	174.2	174.2
	112.0	+0.11	+0.11 ✓
19 45.8	H.R. 7586	58.2	58 00
	222.0	61.2	61.2
	283.2	83.6	83.6
	301.2	144.8	144.8
	24.8	+0.68	+0.68 ✓
19 46.5		58.4	58 00
	123.9	77.9	77.9
	201.8	64.5	64.5
	223.2	142.4	142.4
	257.7	+0.73	+0.73 ✓
19 48.0	H.R. 7627	56.0	42 07
	33.9	77.4	77.4
	111.3	82.4	82.4
	119.3	159.8	159.8
	201.7	+0.38	+0.38 ✓

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1908phae.proj.1255.

Sept 2, 1908

19 48.8	H.R. 7627	56.3	43 07
	298.8	96.5	96.5
	35.3	76.7	76.7
	34.3	173.2	173.2
	111.0	+0.13	+0.13 J
19 50.2	H.R 7639	56.5	40 50
	218.8	70.3	70.3
	289.1	96.7	96.7
	296.7	167.0	167.0
	33.4	+0.25	+0.25 J
19 51.8		57.0	40 50
	120.7	87.2	87.2
	207.9	76.3	76.3
	214.1	163.5	163.5
	290.4	+0.31	+0.31 J
19 52.6	H.R. 7644	58.2	67 22
	33.3	75.5	75.5
	108.8	94.1	94.1
	118.7	169.6	169.6
	212.8	+0.20	+0.20 J
19 53.3		58.3	67 22
	291.9	98.9	98.9
	30.8	79.2	79.2
	34.6	178.1	178.1
	113.8	+0.03	+0.03 J

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1908phae.proj.1255.

Sept 2, 1905

J.D. 8187 = f6

19 548	H.R. 7732	54.8	63 35
	212.4	79.6	79.6
	292.0	97.8	97.3
	294.8	177.4	176.9
	32.1	+0.05	+0.06 ✓
19 55.6		55.2	63 36
	120.8	84.5	84.5
	205.3	77.9	77.9
	215.2	162.4	162.4
	293.1	+0.33	+0.33 ✓
19 56.7	H.R. 7732	53.2	63 22
	35.2	~~85.4~~ 74.6	74.6
	109.5	88.3	88.3
	116.8	~~73.4~~ 162.9	162.9
	205.1	+0.32	+0.32 ✓
19 57.5		53.5	63 22
	295.0	92.2	92.2
	27.2	74.6	74.6
	38.2	166.8	166.8
	112.8	+0.25	+0.25 ✓
19 59.0	H.R. 7745	50.4	47 49
	211.0	81.1	81.1
	292.1	94.1	83.1
	300.9	175.2	174.2
	34.0	~~+0.06~~ +0.11	+0.11 ✓

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1908phae.proj.1255.

Sept. 2, 1908

19 59.7	7745	51.2	47 48
	121.0	84.4	84.4
	205.4	76.8	76.8
	213.0	161.2	161.2
	289.8	+0.36	+0.36 √
20 00.7	H.R. 7749	51.6	47 40
	37.8	74.5	74.5
	112.3	87.1	87.1
	122.6	161.6	161.6
	209.2	+0.35	+0.35 √
20 01.3		51.9	47 40
	299.7	100.3	100.3
	30.0	74.8	74.8
	36.2	175.1	175.1
	111.0	+0.09	+0.09 √
20 03.5	H.R. 7758	54.6	55 11
	215.6	77.5	77.5
	293.1	96.6	96.6
	297.2	174.1	174.1
	33.8	+0.11	+0.11 √
20 04.3		55.1	55 11
	121.7	86.2	86.2
	207.9	80.3	80.3
	215.4	166.5	166.5
	295.7	+0.25	+0.25 √

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1900phae.proj.1255.

Sept 2, 1908

J.D. 8187 = f6

20 05.5	H.R. 7766	54.0	50 09
	39.1	73.6	73.6
	112.7	92.4	92.4
	121.3	166.0	166.0
	213.7	+0.27	+0.27 √
20 06.7		54.8	50 09
	295.8	96.1	96.1
	31.9	75.4	75.4
	35.0	171.5	171.5
	110.4	+0.16	+0.16 √
20 08.5	H.R. 7799	51.2	40 52
	209.0	81.0	81.0
	290.0	95.3	95.3
	296.8	176.3	176.3
	32.1	+0.07	+0.07 √
20 09.3		51.8	40 52
	117.2	91.1	91.1
	208.3	81.9	81.9
	212.3	173.0	173.0
	294.2	+0.13	+0.13 √
20 11.2	H.R. 7825	47.9	32 27
	33.6	80.86	80.6
	114.2	92.8	92.8
	121.1	173.74	173.4
	213.9	+0.13	+0.13 √

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1908phae.proj.1255.

Sept 2, 1908

20 11.8	H.R. 7825	48.2	22 27	
	297.3	93.7	93.7	
	31.0	82.6	82.6	
	35.3	176.3	176.3	
	117.9	+0.07	+0.07 ✓	
20 13.1	H.R. 7832	49.0 69.4	29 11	
	215.4	~~74.9~~	69.4	
	284.8	87.3	87.3	
	300.6	~~158.2~~	156.7	
	27.9	156.7	+0.44 ✓	
		+0.44		
20 13.8		49.7	29 11	
	125.6	83.2	83.2	
	208.8	75.2	75.2	
	216.1	158.4	158.4	
	291.3	+0.41	+0.41 ✓	
20 15.7	H.R. 7842	49.0	25 00	
	33.1	80.9	80.9	
	114.0	88.6	88.6	
	121.8	169.5	169.5	
	210.4	+0.20	+0.20 ✓	
20 19.2		49.6	25 00	
	302.9	87.4	87.4	
	30.3	76.4	76.4	
	36.4	163.8	163.8	
	112.8	+0.31	+0.31 ✓	

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1900phae.proj.1255.

Sept. 2, 1908

J.D. 8787 = J6

20 15.0 H.R. 7877 469 25 12

30.4 / 12.4 / .90 / 11.160

217.3 76.4 11.2 / 58.1 76.4 32 / +20
293.7 91.8 91.8
296.1 168.2 168.2
27.9 +0.22 +0.22 ✓

20 18.7 47.5 25 12

117.3 93.3 93.3
210.6 75.2 75.2
214.0 168.5 168.5
289.2 +0.22 +0.22 ✓

20 20.0 H.R. 7872 54.6 63 08

39.1 74.3 74.3
113.4 83.2 83.2
124.5 157.5 157.5
205.0 +0.43 +0.43 ✓

20 20.7 54.9 63 08

296.8 89.4 89.4
26.2 74.7 74.7
34.1 164.1 164.1
107.5 +0.30 +0.30 ✓

20 22.3 H.R. 7898 48.3 23 51

32.8 / 10.5 / .91 / 10.5 / 9.45 / 9.6

215.0 78.0 9.6 / 57.9 78.0 -24 13 / +22
293.0 87.0 87.0
302.7 165.0 165.0
29.7 +0.29 +0.29 ✓

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1908phae.proj.1255.

Sept 2, 1908

20 22.9	H.R. 7898	49.0	27 51
	125.3	82.9	82.9
	208.2	73.9	73.9
	218.2	156.8	156.8
	292.1	+0.44	+0.44
20 25.5	H.R. 7902	50.9	26 42
	39.4	70.8	70.8
	110.2	80.0	80.0
	122.9	150.8	150.8
	202.9	+0.56	+0.56
20 26.2		51.8	26 42
	302.8	84.5	84.5
	27.3	70.0	70.0
	42.8	154.5	154.5
	112.8	+0.49	+0.49
20 27.8	H.R. 7910	52.4	26 02
	213.4	80.4	80.4
	293.8	84.6	84.6
	302.6	165.0	165.0
	27.2	+0.29	+0.29
20 28.5		53.	26 02
	124.4	84.8	84.8
	209.2	82.6	82.6
	211.7	167.4	167.4
	294.3	+0.24	+0.24

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1900phae.proj.1255.

Sept 2, 1905

J.D. 8187 = J6

20 30.0	H.R. 7931	50.9	27 20
	42.2	62.7	62.7
	104.9	80.4	80.4
	122.6	143.1	143.1
	203.0	+0.71	+0.71 ✓
20 30.7		61.6	27 20
	302.8	79.1	79.1
	21.9	72.6	72.6
	39.7	151.7	151.7
	112.3	+0.54	+0.54 ✓
20 32.3	T Det.	59.9	89 11
	212.1	84.7	84.7
	296.8	108.2	108.2
	291.2	192.9	192.9
	39.4	*-0.24	-0.24 ✓
20 33.0		59.9	89 11
	120.8	98.8	98.8
	219.6	86.2	86.2
	209.8	185.0	185.0 -0.09 ✓
	296.0	-0.09	Sky hazy at close

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1908phae.proj.1255.

Sky hazy.

Tuesday Sept 8. 1908.

Series g 6

18 21.6	Oct	58.9	89	16	
	28.8	92.4	92.4		
	121.2	103.2	103.2		
	112.1	195.6	195.6		
	215.3	−0.30	−0.30		
18 23.1		58.9	89	16	
	288.5	108.6	108.6		
	37.1	92.8	92.8		
	27.2	201.4	201.4		
	120.0	−0.41	−0.41		
19 26.3	HR 7393	60.8	55	15	
	212.9	77.9	77.9		
	290.8	92.2	92.2		
	298.9	170.1	170.1		
	31.1	+0.19	+0.19		
19 27.7		61.3	55	15	
	123.9	83.4	83.4		
	207.3	74.6	74.6		
	215.5	158.0	158.0		
	290.1	+0.42	+0.42		
19 30.5	HR 7734	59.0	58	06	
	36.6	75.8	75.8		
	112.4	88.3	88.3		
	121.0	164.1	164.1		
	209.3	+0.30	+0.30		

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1908phae.proj.1255.

Sept 8. 1908.

J.D. 8193 = g^6

19 31.6 59.4 58 06

299.8	86.6	86.6
26.4	75.2	75.2
36.4	161.8	161.8
111.6	+0.35	+0.35 ✓

19 35.2 HR 7435 60.4 66 .49

27.5 / 7.7 / .39 / 693 / 231 / 3.0

215.6	70.9 (50, 57.4)	70.9	58 / +9
286.5	83.6	83.6	
303.6	154.5	154.5	
27.2	+0.49	+0.49 ✓	

19 36.5 60.9 66 49

120.0	83.2	83.2
203.2	64.9	64.9
220.9	148.1	148.1
285.8	+0.61	+0.61 ✓

Assume. $-66^\circ 8442, 7.3$

19 38.6 HR 7455 62.2 66 03

26.3 b / 12.3 / .40 / 4920 — 29.5 a / 9 1 / 40 / 3640

43.2	59.9 (8.6, 58.6) a	59.9	~~8~~ / +5 a
103.1	77.0	77.0	
124.9	136.9	136.9	
201.9	+0.84 b (4.9, 57.3)	+0.84 ✓	11 / +8 b

19 39.7 62.8 66 03

305.8	78.8	78.8	
24.6	63.3	63.3	
41.8	142.1	142.1	
105.1	+0.73	+0.73 ✓	

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1908phae.proj.1255.

Sept 8. 1908.

19	41.7	H.R. 7461	65.2	45	20
		213.2	76.7	76.7	
		289.9	95.4	95.4	
		298.6	172.1	172.1	
		34.0	+0.15	+0.15 ✓	
19	42.8		66.1	45	20
		121.5	84.1	84.1	
		205.6	79.8	79.8	
		213.1	163.9	163.9	
		292.9	+0.30	+0.30 ✓	
19	45.6	H.R. 7513	64.9	66	48
		36.9	67.3	67.3	
		104.2	68.8	68.8	
		129.7	136.1	136.1	
		198.0	+0.85	+0.85 ✓	
19	46.8		65.2	66	48
		304.1	81.0	81.0	
		25.1	65.6	65.6	
		39.2	146.6	146.6	
		104.8	+0.64	+0.64 ✓	
19	48.7	H.R. 7521	63.0	52	58
		206.2	82.9	82.9	
		289.1	82.8	82.8	
		299.2	165.7	165.7	
		22.0	+0.27	+0.27 ✓	

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Sept 8. 1908.

J.D. 8198 = g^6

19 50.0		64.0	52 58	
	118.0	84.0	84.0	
	202.0	88.3	88.3	
	211.9	172.3	172.3	
	290.2	+ 0.14	+0.14 ✓	
19 52.4	HR. 7524	62.9	55 42	
	34.9	80.0	80.0	
	114.9	88.3	88.3	
	117.5	168.3	168.3	
	205.8	+ 0.22	+0.22 ✓	
19 53.8		63.4	55 42	
	298.2	95.6	95.6	
	33.8	80.4	80.4	
	34.9	176.0	176.0	
	115.3	+ 0.08	+0.08 ✓	
19 58.9	HR. 7766	48.9	50 14	
	216.5	70.3	70.3	
	286.8	88.8	88.8	
	299.5	159.1	159.1	
	28.3	+ 0.40	+0.40 ✓	
20 00.0		49.1	50 14	
	120.8	90.1	90.1	
	210.9	76.2	76.2	
	214.2	166.3	166.3	
	290.4	+ 0.26	+0.26 ✓	

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1908phae.proj.1255.

Sept 8. 1908

20 02.9	H.R. 7799	46.6	40 58
	31.1	86.9	86.9
	118.0	89.6	89.6
	120.6	176.5	176.5
	210.2	+0.06	+0.06 ✓
20 04.0		47.2	40 58
	296.9	93.6	93.6
	30.5	72.0	72.0
	36.0	165.6	165.6
	108.0	+0.27	+0.27 ✓
20 07.1	H.R. 7825	43.7	22 30
	211.5	85.7	85.7
	297.2	86.0	86.0
	299.0	171.7	171.7
	25.0	+0.16	+0.16 ✓
20 08.5		44.5	22 30
	123.8	81.3	81.3
	205.1	82.4	82.4
	212.9	163.7	163.7
	295.3	+0.31	+0.31 ✓
20 11.5	H R 7832	47.1	29 18
	32.0	78.0	78.0
	110.0	79.0	79.0
	126.1	157.0	157.0
	205.1	+0.44	+0.44 ✓

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Sept 8. 1908.

J.D. 8198 = g⁶

20	12.7		47.9	29	18
		300.2	85.8	85.8	
		26.0	80.7	80.7	
		33.1	166.5	166.5	
		113.8	+0.25	+0.25 ✓	
20	16.3	H.R. 7877	44.5	25	15
		214.8	80.4	80.4	
		295.2	85.0	85.0	
		300.0	165.4	165.4	
		25.0	+0.28	+0.28 ✓	
20	17.2		45.3	25	15
		129.8	77.0	77.0	
		206.8	80.1	80.1	
		211.9	157.1	157.1	
		292.0	+0.44	+0.44 ✓	
20	24.4	~~H.R. 7. Oct~~	60.0	89	18
		29.8	89.6	89.6	
		119.4	101.2	101.2	
		109.8	190.8	190.8	
		211.0	−0.20	−0.20 ✓	
20	25.6		60.1	89	18
		295.3	100.2	100.2	
		35.5	97.6	97.6	
		26.3	197.8	197.8	
		123.9	−0.34	−0.34 ✓	

Too hazy, to continue.

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Thursday Sept 10 1908.

Series 6

18 58.5 δ Oct

208.2	88.8	88.8
297.0	101.7	101.7
290.8	190.5	190.5
32.5	−0.20	−0.20 ✓

18 59.7

	58.9	89 18
117.4	93.6	93.6
211.0	85.6	85.6
210.4	179.2	179.2
296.0	+0.02	+0.02 ✓

19 01.7 H.R. 7177

	61.8	41 50
36.8	79.7 6.2 55.6	79.7 − 42 5 +15
116.5	91.1	91.1
117.8	170.8	170.8
208.9	+0.17	0.17 ✓

18 53.3 (1875)
8.4
.74
336
588
6.2

19 03.0

	62.8	41 50
300.5	87.0	87.0
27.5	86.1	86.1
29.9	173.1	173.1
116.0	+0.13	0.13 ✓

b −23° 15008, 69?

cBM. −22° 13527, 68
= BM. −22° 4946, 65

19 06.8 H.R. 7182

	66.9 (10.3)	22 58
205.0	96.4 56.6	96.4
301.4	108.9 11.7 a 55.2	108.9
290.8	205.3	205.3
39.7	−0.48	−0.48 ✓

18 b 55.6 (1875) 54.1a
567
10.7
92
214
963
9.8
1.2
.92
224
1008
10.3
12.7
.92
254
1143
11.7

58
−48
5.2a
−46
23 4 b
19

88 b
57.1

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1000phae.proj.1255.

10
Sept 8. 1908

J.D. 8195 = h 6

19 08.0 67.7 22 58

56.7	110.3	103.7 10.4	103.7	28 4
11.3	214.0	57.3 94.8	94.8	76
.92	205.8	198.5	198.5	
226	300.6	− 0.35	−035 ✓	
10 17				
10.4				

~~48° 12876, 70 2~~

19 10.0 H.R. 7223 64.3 48 19

18 57.5	55.2 34.8	83.4 8.2	83.4	29
12.5	148	56.1 97.2	97.2	+10
.66	66 118.2	180.6	180.6	
750	888 114.7	− 0.01	−001 ✓	
750	888	~~98~~ 54.5		~~35~~ −16
8.2	9.8 211.9			

19 11.1 65.2 48 19

293.8	96.1	96.1	
29.9	83.8	83.8	
33.8	179.9	179.9	
117.6	+ 0.00	000 ✓	

19 13.2 H.R. 7233 64.9 55 45

18 58.5	222.1	62.5 8.2	62.5	54
14.7	284.6	56.7 85.3	85.3	+9
.56	302.0	147.8	147.8	
882	27.3	+ 0.62	+ 0.62 ✓	
735				
8.2				

19 14.3 65.8 55 45

123.8	78.1	78.1	
201.9	69.8	69.8	
220.3	147.9	147.9	
290.1	+ 0.62	+ 0.62 ✓	

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1908phae.proj.1255.

Assume Sept 10, 1908

-29° 15-692, 7.0 ?
-22° 4977

19 17.1 HR 7240 71.8 29 00

18 59.7 b 57.9 a 40.9 66.9 15.3 a 28 50 a
17.4 19.2 107.8 69.8 565 66.9 -10
.88 .87 69.8
1392 1344 130.6 136.7 ✓
1392 1536 200.4 +0.84 16.7 b +0.84 b
153 16704 +0.84 5.51 -29 16 16.7
+16

19 18.0 72.9 29 00

308.0 71.5 71.5
19 5.-
388.0 57.4 57.4
47.2 128.9 128.9
104.6 +1.00 +1.00 ✓

19 20.4 HR 7271 68.0 50 33

3.1 215.1 78.0 10.9 78.0 4/
17.3 293.1 93.0 57.1 93.0 +8
.63
519 300.0 171.0 171.0
1038 33.0 +0.17 +0.17 ✓
10.9

19 21.7 68.4 50 33

121.0 90.0 90.0
211.0 79.6 79.6
213.8 169.6 169.6
293.4 +0.20 +0.20 ✓

19 24.8 H.R. 7274 64.9 69 15

3.0 38.0 68.9 7.6 68.9 24
21.8 106.9 84.3 57.3 84.3 +6
.35
1090 123.0 153.2 153.2
654 207.3 +0.51 +0.51 ✓
7.6

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1908phae.proj.1255.

Sept. 10. 1908.

J.D. 8195 = h 6

19 25.9 65.2 69 18

298.8 88.5 88.5
27.3 67.6 67.6
40.4 156.1 156.1
108.0 + 0.46 +0.46 ✓

h −22° 13614, 7.1 Assume.

19 29.8 H.R. 7276 82.9 22 28

a
5.0 (1875) 6.5 (1900)
24.8 28.3
.93 .93
744 699
2232 2097
23.1 21.7

222.7 58.5 21.7 61.2 21 50 +−88
b 281.2 74.2 58.5 74.2
308.8 132.7 132.7
23.0 + 0.92 3.1 a +0.92 ✓ 21 5.2 −36 −22 41 +13 b
18595 30.3 .92 606 2727 27.9
5.8 27.9 b 55.0

19 31.0 83.0 22 28

129.7 72.6 72.6
202.3 65.8 65.8
221.0 138.4 138.4
286.8 + 0.81 +0.81 ✓

19 34.0 H.R. 7277 81.0 25 50

(1875) 7.0 (1900)
5.5 27.0
28.5 .90
.90 24300
25650

28.4 97.6 4 44.3 56.7 94.6 26 5 +15
123.0 97.2 97.2
113.1 196.8 1 2 191.8 26 7
210.3 + 0.32 25.6 55.4 −0.22 ✓ +17

19 35.1 81.9 25 50

297.5 96.4 96.4
33.9 90.0 90.0
30.8 186.4 186.4
120.8 −0.12 −0.12 ✓

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1908phae.proj.1255.

Sept 10. 1908.

19 40.0 H.R. 7297 75.8 53 38

8.2 213.2 74.8 1.88/57.0 74.8 8.6/+2
21.8 288.0 80.9 80.9
.59 300.9 155.7 155.7
2862 21.8 +0.46 +0.46 ✓
1590
18.8

19 41.0 76.8 53 38

122.7 83.1 83.1
205.8 72.3 72.3
216.4 155.4 155.4
288.7 +0.47 +0.47 ✓

19 43.2 HR 7383 66.8 68 35

18.2 42.0 65.9 9.0/57.8 65.9 41/+6
25.0 108.4 74.6 74.6
.86 129.9 140.5 140.5
1500 204.5 +0.76 +0.76 ✓
750
9.0

19 44.3 67.2 68 35

18.2 303.0 85.4 9.4/57.8 85.4
26.1 28.4 68.5 68.5
.86 40.0 153.9 153.9
1566 108.2 +0.50 +0.50 ✓
783
9.4

19 47.0 HR 7388 71.9 55 35

19.7 212.4 83.5 15.3/56.6 83.5 55 42/+7
27.3 295.9 89.6 89.6
.56 302.8 173.1 173.1
1638 32.4 +0.13 +0.13 ✓
1365
15.3

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1900phae.proj.1255.

Sept. 10. 1908.

J.D. 8195 = h6

19	48.0		72.2	55	35
		122.5	88.5	88.5	
		211.0	82.7	82.7	
		216.3	171.2	171.2	
		299.9	+0.17	+0.17 ✓	
19	49.8	H.R. 7393	73.1	55	20
		34.9	80.8	80.8	
		115.7	82.0	82.0	
		121.3	162.8	162.8	
		203.3	+0.33	+0.33 ✓	
19	50.9		73.9	55	20
		296.8	89.5	89.5	
		26.3	73.1	73.1	
		35.4	162.6	162.6	
		108.5	+0.33	+0.33 ✓	
19	51.8	H.R. 7434	70.0	58	10
		215.4	74.4	74.4	
		289.8	84.9	84.9	
		300.3	159.3	159.3	
		25.2	+0.39	+0.39 ✓	
19	53.9		70.4	58	10
		120.0	86.2	86.2	
		206.2	79.2	79.2	
		215.2	165.4	165.4	
		294.4	+0.28	+0.28	

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Sept. 10/1908.

19	56.4	HR 7435	68.8	66	53	
	27.5	38.0	73.9	11.3 / 57.5	73.9	58 / +5
	28.9	111.9	76.5		76.5	
	.89	124.9	150.4		150.4	
	2601	201.4	+0.57		+0.57 √	
	867					
	11.3					
19	57.5		68.9	66	53	
		303.1	86.9		86.9	
		30.0	70.3		70.3	
		37.3	157.2		157.2	
		107.6	+0.43		+0.43 √	
19	59.7	H.R. 7455	69.5	66	05	
	29.5	212.8	83.2	12.1 / 57.4	83.2 -66	8 / +3
	30.2	296.0	87.0		87.0	
	.40	296.9	170.2		~~170.2~~ 170.2	
	12.080	23.9	+0.19		+0.19 √	
20	00.7		69.9	66	05	
		119.3	86.0		86.0	
		205.3	80.8		80.8	
		216.0	166.8		166.8	
		296.8	+0.25		+0.25 √	
20	37.2	H.R. 7989	47.6	23	55	
		38.4	75.4		75.4	
		113.8	81.4		81.4	
		125.4	156.8		156.8	
		206.8	+0.44		+0.44 √	

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Sept 10. 1906.

J.D. 8195 = h^6

20 38.5		48.6	23 53
	303.8	85.8	85.8
	29.6	78.1	78.1
	34.8	163.9	163.9
	112.9.	+0.30	+0.30 ✓
20 40.7	H.R. 7992	53.4	50 56
	213.9	82.1	82.1
	296.0	91.8	91.8
	299.6	173.9	173.9
	31.4	+0.11	+0.11 ✓
20 41.7		54.1	50 56
	117.5	91.3	91.3
	208.8	83.1	83.1
	211.8	174.4	174.4
	294.9	+0.11	+0.11 ✓
20 43.7	H.R. 7997	52.9	28 03
	38.0	74.4	74.4
	112.4	86.4	86.4
	122.5	160.8	160.8
	208.9	+0.37	+0.37 ✓
20 44.8		53.0	28 03
	308.0	74.9	74.9
	22.9	77.4	77.4
	34.4	152.3	152.3
	111.8	+0.53	+0.53 ✓

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Sept 10. 1908.

20 46.0m	H.R. 8019	56.8	68 28	
	217.6	77.7	77.7	
	295.3	84.1	84.1	
	302.9	161.8	161.8	
	27.0	+0.35	+0.35 ✓	
20 48.1		57.0	68 28	
	119.1	87.1	87.1	
	206.2	77.0	77.0	
	215.3	164.1	164.1	
	292.3	+0.30	+0.30 ✓	
20 50.8	H.R. 8050	50.9	27 52	
	35.8	78.7	78.7	
	114.5	80.3	80.3	
	124.7	159.0	159.0	
	205.0	+0.40	+0.40 ✓	
20 51.7		51.8	27 52	
	301.8	87.0	87.0	
	28.8	79.6	79.6	
	35.2	166.6	166.6	
	114.8	+0.25	+0.25 ✓	
20 53.8	H.R. 8052	57.9	76 26	
	220.9	63.1	63.1	
	284.0	81.9	81.9	
	304.9	145.0	145.0	
	26.8	+0.67	+0.67 ✓	

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Sept 10, 1908

J.D. 8195 = h6

20 54.8 — 58.1 — 76 25

543 57.3 — 127.4 — 72.8 .6 58.7 — 72.8 76 — 56 +11
.5 2.5
.23 .23
.115 .75
56
.6

200.2 — 70.6 — 70.6
219.9 — 143.4 .1 580 — 143.4 — −76 42 +17
290.5 — +0.71 — +0.71 ✓

20 56.8 HR 8081 — 58.3 — 72 48

2058.7 1.3 — 37.1 — 76.1 1 .6 58.9 — 74.1 57 — 73 3 +15
1.9 4.5
.29 .29
171 405
98 90
.6 13

111.2 — 86.8 — 86.8
121.5 — 162.9 — 160.9
208.3 — +0.32 — +0.36 ✓

20 57.7 — 57.5 — 72 48

298.8 — 84.6 — 84.6 — 825.4
23.4 — 78.7 — 78.7 — 206.1
33.1 — 163.3 — 163.3 — 45 251.1
111.8 — +0.32 — +0.32 ✓ — 341.1
467.1 — 161.1
827.1 — 71.1

20 59.9 HR 8111 — 56.9 — 75 35 — 829.9

34.1 21 4.6 — 217.0 — 71.4 1.1 58.0 — 71.4 −75 52 +17 — 1364 0.85 207.5
37.3 4.7 — 288.4 — 80.4 — 80.4 — 149.2 0.59 45 252.5
35.9 .24 — 305.2 — 151.8 — 151.8 — 143.6 0.70 342.5
44.5 188 — 25.6 — +0.54 — +0.54 ✓ — 178.0 0.04 162.5
94 — 836.2 — 72.5
1.1

21 00.8 — 57.1 — 75 35

41.7 4.6 — 120.8 — 81.7 .9 580 — 81.7 −75 52 +17 — 166.8 0.25
40.0 3.8 .24 — 202.5 — 79.7 — 79.7 — 160.0 0.38
46.7 152 — 205.8 — 161.4 — 186.8 −0.13
33.0 76 9 — 285.5 — +0.35 — +0.35 ✓ — 132.0 0.94
814.6

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Sept 10. 1908.

21	02.8	H.R. 8142	47.9		28	55	
	11.5	30.2	73.2	7.6	73.2	29	17
	8.7	108.4	78.0	55.5	78.0		+22
	.87	121.0	151.2		151.2		
	609	199.0	+0.55		+0.55 ✓		
	696	463.6					
	7.6	823.6					
21	03.8		48.7		28	56	
		302.4	81.8		81.8		
		24.2	74.6		74.6		
		37.2	156.4		156.4		
		111.8	+0.45		+0.45 ✓		
21	07.9	HR. 8148	51.0		26	28	
	12.5	215.9	72.5	4.1	72.5 − 26		53
	4.6	288.4	77.4	55.1	77.4		+25
	.89	303.2	149.9		149.9		
	414	20.6	+0.58		+0.58 ✓		
	368						
	4.1						
21	08.8		51.9		26	28	
		121.9	79.9		79.9		
		201.8	69.2		69.2		
		219.0	149.1		149.1		
		288.2	+0.59		+0.59 ✓		
21	10.8	HR 8152	55.9		50	12	
		38.8	70.4		70.4		
		109.2	77.0		77.0		
		125.4	147.4		147.4		
		202.4	+0.63		+0.63 ✓		

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Sept 10. 1908

J.D. 8195 = h⁶

21	11.8		56.5	50	12
		302.0	78.6	78.6	
		20.6	74.9	74.9	
		31.9	153.5	153.5	
		106.8	+0.51	+0.51 ✓	
21	13.7	H.R. 8159	58.0	72	05
		215.0	86.2	86.2	
		301.2	96.4	96.4	
		297.4	182.6	182.6	
		33.8	−0.05	−0.05 ✓	
21	14.6		58.3	72	05
		122.3	88.4	88.4	
		210.7	86.7	86.7	
		208.9	175.1	175.1	
		295.6	+0.09	+0.09 ✓	
21	16.3	HR 8177	56.9	46	57
		36.3	77.5	77.5	
		113.8	82.4	82.4	
		119.4	159.9	159.9	
		201.8	+0.38	+0.38 ✓	
21	17.4		57.5	46	57
		295.7	97.4	97.4	
		33.1	73.9	73.9	
		38.0	171.3	171.3	
		111.9	+0.16	+0.16 ✓	

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Sept 10. 1908

J.D. 8195=h6

21	20.0	♂ Oct	60.6	89	18
		202.9	101.0	101.0	
		303.9	108.9	108.9	
		290.2	209.9	209.9	
		39.1	~~−0.44~~ −0.57	−0.57 ✓	
21	24.9		60.6	89	18
		117.9	106.1	106.1	
		224.0	99.0	99.0	
		201.8	205.1	205.1	
		300.8	−0.48	−0.48 ✓	

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