

Elements of ζ Herculis.
 $\Omega = 41^{\circ}44'$, $\lambda = 252^{\circ}45'$, $\gamma = 43^{\circ}14'$, $e = 0.4627$, $P = 34^{\text{hrs}}.411$, $T = 1864.7852$, $a = 1''.284$.

Observer	Epoch	θ_c	ρ_c	$\theta_o - \theta_c$	$\rho_o - \rho_c$	Observer	Epoch	θ_c	ρ_c	$\theta_o - \theta_c$	$\rho_o - \rho_c$
W. Struve	1826.63	29 ⁰ 4	0''99	- 6 ⁰ 0	-0''08	Dawes	1851.80	86 ⁰ 7	1''50	+ 0 ⁰ 2	+0''09
»	1828.73	352.0	0.63	+ 0 6	+0.02	Mädler	1851.88	86.3	1.50	- 1.6	-0.32
»	1832.75	226.8	0.84	- 6.3	-0.03	Smyth	1852.53	83.1	1.50	+ 0 7	-0.20
»	1834.45	205.1	1.02	- 1.6	-0.11	O. Struve	1852.63	82.5	1.50	+ 1.7	+0.02
»	1835.45	195.0	1.08	+ 1.9	+0.01	Fletcher	1852.64	82.5	1.50	+ 1.5	-0.26
Smyth	1835.68	192.8	1.08	- 2.8	-0.58	Dawes	1852.73	82.0	1.50	+ 0.5	+0.07
Encke	1836.59	184.6	1.12	+ 6 0	+0.12	Jacob	1853.15	80.0	1.50	+ 1.1	+0.08
W. Struve	1836.60	184.6	1.12	+ 1.6	-0.03	Miller	1853.33	79.1	1.50	- 0 5	-0.10
Smyth	1836.73	183.4	1.13	- 7.1	-0.43	Mädler	1853.39	78.8	1.50	- 1.5	-0.27
W. Struve	1837.47	177.1	1.16	- 1.7	-0.06	Dawes	1853.40	78.7	1.50	+ 1.4	+0.16
»	1838.44	169.4	1.19	- 0.8	-0.16	O. Struve	1853.59	77.8	1.50	+ 2 1	-0.02
Smyth	1838.65	167.7	1.19	+ 1.3	+0.01	Mädler	1853.82	76.6	1.49	- 2 3	-0.30
Encke	1838.70	167.3	1.19	+ 1.1	+0.18	Jacob	1854.06	75.4	1.49	+ 2.6	+0.03
»	1839.50	161.2	1.22	+ 9 1	-0.25	Dawes	1854.45	73.5	1.49	+ 1.8	+0.06
W. Struve	1839.67	159.9	1.22	+ 0.5	-0.06	O. Struve	1854.66	72.4	1.49	+ 4.4	+0.07
O. Struve	1839.67	159.9	1.22	- 2.5	-0.02	Mädler	1854.68	72.3	1.49	0.0	-0.16
Dawes	1839.76	159.2	1.23	+ 2.7	-0.01	Dembowski	1854.80	71.8	1.48	- 3.3	-
O. Struve	1840.66	152.6	1.25	+ 4.5	-0.01	»	1855.23	69.6	1.47	+ 1 2	-
W. Struve	1840.66	152.6	1.25	+ 7.3	+0.04	Secchi	1855.53	68.0	1.46	+ 1.7	+0.06
Dawes	1840.66	152.6	1.25	- 2.0	-0.02	O. Struve	1855.62	67.6	1.45	+ 3.2	+0.10
Mädler	1841.44	147.0	1.27	+ 2.3	-0.16	Morton	1855.66	67.3	1.45	+ 5.9	0 00
O. Struve	1841.60	145.9	1.27	+ 1.8	-0.04	Dawes	1855.68	67.3	1.45	+ 2.2	+0.14
Dawes	1841.65	145.6	1.27	- 2.7	-0.03	Jacob	1856.25	64.2	1.43	+ 2.0	+0.17
Mädler	1842.40	140.4	1.29	+ 1.2	-0.37	Dembowski	1856.52	62.7	1.42	+ 1.0	-0.22
Kaiser	1842.55	139.4	1.29	+ 0.7	+0.13	Secchi	1856.53	62.6	1.42	+ 1.5	-0.01
Smyth	1842.57	139.3	1.29	- 2.4	-0.09	O. Struve	1856.62	62.1	1.41	+ 2.6	+0.08
Dawes	1842.58	139.2	1.29	- 0.7	-0.23	Mädler	1857.39	57.7	1.37	+ 2.3	-0.30
O. Struve	1842.64	138.8	1.29	+ 7.2	-0.08	Morton	1857.46	57.2	1.36	+ 3.0	+0.24
Mädler	1842.75	138.0	1.29	+ 3.4	-0.31	Secchi	1857.59	56.5	1.36	+ 3.0	-0.07
»	1843.58	132.7	1.31	- 2.4	-0.39	O. Struve	1857.63	56.2	1.35	+ 2.2	+0.14
Dawes	1843.64	132.3	1.31	- 2.4	-0.02	Dembowski	1857.75	55.4	1.34	+ 3.6	-0.09
Mädler	1844.29	128.0	1.34	- 4.0	-0.29	Jacob	1857.86	54.7	1.34	+ 2.3	+0.12
O. Struve	1844.71	125.3	1.35	+ 0.1	-0.23	Secchi	1858.48	50.8	1.29	+ 3.8	-0.23
»	1845.63	119.8	1.37	+ 1.5	-0.13	Dembowski	1858.55	50.4	1.29	- 0.5	-0.29
»	1846.69	113.7	1.39	- 3.2	-0.06	O. Struve	1858.62	49.9	1.28	+ 1.1	+0.35
Dawes	1846.89	112.6	1.40	- 0.4	-	Mädler	1858.66	49.6	1.28	- 1.0	-0.08
Mädler	1847.47	109.4	1.42	- 4.8	-0.12	»	1859.39	44.4	1.21	- 3.2	-0.10
Dawes	1847.53	109.0	1.42	- 1.1	+0.20	Secchi	1859.52	43.4	1.20	- 0.2	-0.14
O. Struve	1847.68	108.1	1.42	+ 3.2	0 00	Dawes	1859.61	42.7	1.19	+ 3.1	+0.15
Mitchel	1847.71	108.0	1.42	+ 1.2	-0.33	O. Struve	1859.63	42.5	1.19	- 0.1	+0.10
Smyth	1848.39	104.3	1.44	+ 4.2	-0.44	Mädler	1859.98	39.6	1.14	- 4.4	+0.19
Mädler	1848.41	104.2	1.44	- 5.4	-0.36	O. Struve	1860.74	32.4	1.04	+ 0.1	+0.34
Dawes	1848.61	103.1	1.44	- 0.9	+0.10	»	1861.57	22.8	0.91	- 5.7	+0.14
O. Struve	1848.76	102.3	1.45	+ 1.9	+0.08	Dembowski	1862.53	6.8	0.74	- 5.1	+0.06
Dawes	1849.48	98.5	1.46	+ 0.7	+0.25	O. Struve	1862.74	2.1	0.70	-20.9	+0.30
O. Struve	1849.73	97.2	1.46	+ 1.3	+0.03	Dembowski	1863.49	340.1	0.60	+ 2.3	-
»	1850.53	93.0	1.48	+ 0.8	+0.04	»	1866.46	238.8	0.75	+ 5.8	-0.25
Fletcher	1850.54	93.0	1.48	- 1.3	-0.08	Dawes	1866.70	234.2	0.78	+ 0.9	+0.08
Mädler	1850.55	92.9	1.48	- 1.5	-0.22	O. Struve	1866.74	233.5	0.79	- 4.9	+0.18
»	1851.23	89.6	1.49	- 4.8	-0.20	Dawes	1866.81	232.4	0.80	- 3.2	+0.03
Fletcher	1851.51	88.2	1.50	+ 1.1	-0.20	»	1866.99	229.1	0.82	- 4.0	+0.16
O. Struve	1851.62	87.6	1.50	+ 0.8	-0.03	Dembowski	1867.52	221.1	0.88	+ 4.5	-0.08

Observer	Epoch	θ_c	ϱ_c	$\theta_o - \theta_c$	$\varrho_o - \varrho_c$	Observer	Epoch	θ_c	ϱ_c	$\theta_o - \theta_c$	$\varrho_o - \varrho_c$
Dunér	1867.72	218 ⁰ 3	0''91	+ 3 ⁰ 1	+0''12	Dembowski	1874.53	156 ⁰ 3	1''23	+ 0 ⁰ 7	+0.13
Dembowski	1868.42	209.7	0.98	+ 0.9	-0.04	Gledhill	1874.57	156.0	1.23	- 0.4	-0.45
Knott	1868.48	208.9	0.99	- 2.4	0.00	Wilson	1874.59	155.9	1.23	+ 0.5	-0.15
O. Struve	1868.59	207.7	0.99	- 4.0	+0.24	O. Struve	1874.62	155.6	1.23	+ 7.3	+0.17
Dunér	1868.67	206.9	1.00	+ 6.4	+0.05	Dunér	1874.65	155.4	1.23	- 0.5	+0.12
Brünnow	1868.73	206.1	1.01	+ 6.3	+0.18	Newcomb	1874.66	155.3	1.23	+ 1.2	0.00
Dembowski	1869.58	197.2	1.06	+ 3.7	+0.03	Dembowski	1875.52	149.2	1.26	- 0.1	+0.15
Dunér	1869.62	196.8	1.07	+ 6.3	-0.01	Schiaparelli	1875.55	149.0	1.26	- 1.8	-0.05
O. Struve	1869.62	196.8	1.07	+ 8.1	+0.09	Wilson	1875.58	148.8	1.26	+ 1.5	—
Dembowski	1870.49	188.8	1.11	+ 2.0	-0.01	Dunér	1875.61	148.5	1.26	- 1.1	+0.02
Dunér	1870.59	187.9	1.11	+ 5.7	+0.10	Hall	1876.52	142.3	1.28	+ 0.8	+0.04
Talmage	1871.49	180.1	1.15	+19.3	—	Schiaparelli	1876.54	142.1	1.28	- 4.0	-0.11
Dembowski	1871.50	180.0	1.15	+ 0.8	+0.12	Dembowski	1876.54	142.1	1.28	- 2.5	+0.09
O. Struve	1871.52	179.9	1.15	- 0.3	+0.19	„	1877.53	135.5	1.30	- 1.7	+0.06
Dunér	1871.60	179.2	1.15	+ 4.5	+0.03	Hall	1877.59	135.2	1.30	- 1.2	-0.06
Dembowski	1872.48	172.0	1.18	+ 1.9	+0.16	Gledhill	1878.51	129.1	1.33	- 3.6	+0.14
Dunér	1872.58	171.2	1.18	+ 6.0	+0.04	Doberck	1878.53	129.0	1.33	- 2.0	+0.01
O. Struve	1872.60	171.0	1.18	- 2.2	-0.04	Dembowski	1878.57	128.8	1.33	- 2.1	+0.05
Wilson	1873.46	164.2	1.20	+ 2.5	-0.25	Hall	1879.46	123.2	1.36	- 2.5	+0.14
O. Struve	1873.52	163.8	1.21	+ 6.1	+0.02	Burnham	1879.59	122.5	1.36	+ 2.7	0.00
Dembowski	1873.52	163.8	1.21	- 1.3	+0.18	Doberck	1880.41	117.6	1.38	+ 0.7	-0.11
Dunér	1873.70	162.4	1.21	+ 3.9	+0.19	Gledhill	1880.47	117.3	1.38	- 0.1	+0.02

Markree 1880, August 2.

W. Doberck.

Schreiben des Herrn W. Ceraski an den Herausgeber.

In Nr. 2324 der Astron. Nachrichten habe ich angekündigt, dass der Stern der Durchmusterung $0^h49^m39^s + 81^05'6$ Mag. 7.5 veränderlich ist. Später wurde der Stern noch einmal im kleinen Lichte beobachtet.

Ich wollte die Erscheinung dem Herrn Glasenapp aus St. Petersburg zeigen und da wir nur ein passendes Fernrohr (nämlich das Photometer) besitzen und unsere Augen ganz verschieden sind, so konnte ich nicht mit beobachten.

Die Stufenschätzungen des Herrn Glasenapp haben Folgendes ergeben:

Vergleichsterne und deren zu Grunde gelegte Helligkeit:

c	= 0.0 Stufen	$0^h41^m14^s + 80^057'8$	Mag. 9.2
d	= 1.6 „	42 4	81 7.5 „ 9.2
b	= 2.0 „	40 28	80 53.3 „ 9.2
a	= 4.6 „	39 5	80 48.9 „ 8.9
(3)	= 12.1 „	50 56	81 19.3 „ 8.6
(4)	= 12.6 „	51 35	81 28.1 „ 8.6
(5)	= 17.6 „	38 28	81 10.5 „ 7.6
(2)	= 18.3 „	52 29	81 10.9 „ 8.3

Die Helligkeit des Veränderlichen:

1880 Juli 3.

10^h40^m	Nach Mittag mittl. Mosk. Zeit	4.1 Stufen
43		2.2 „
45		4.8 „
50		3.4 „
55		3.6 „
57		4.8 „
11 1		5.4 „
8		6.8 „
12		8.1 „
15		8.8 „
17		9.3 „
19		12.3 „
22		10.4 „
24		13.5 „
27		11.8 „
31		12.2 „
37		13.2 „
41		14.2 „
51		14.5 „
59		14.5 „
12 23		16.2 „