

Manuale observationum astron. 1844.

II.

Circuli usque q. Intin. Versus Orientem.

of 100

Junii

1844.

13	Solij L I	45.7	54.4	3.3	12.3	21.5	22	5
	II.	3.6	12.7	21.7*	30.4	39.7	24	5
		49	54	59	4	9		
	α Urs. min.	19.0	26.5	27.7	35.0	53.5	-	0
		53	55		5	5		
		28.5	21.7		27.0	29.0		

* de beteffe 12.4
 + 18.0 - 21.0
 17.6 21.1 (13.2)
 $a = -0.204$ Seyff. 4 56 $x = +3' 55'' 26.2$ Rel. 2. 595
 $b = -0.200$ Kopf. 7 $x = +4' 10'' 84$ Rel. 2. 710
 $c = -0.035$ Feilb. 5 $x = +3' 23.20$ Rel. 2. 018
 Kopf. 14 $2^0 0^1 2^1 + 4' 11'' 58$ Rel. 3. 089
 Feilb. 14 $2^0 0^1 0^1 + 3' 22.07$ Rel. 1. 345

α Arietis	13.2	21.9	30.6	41.5*	48.6	54	1	
α Ceti.	58.3	6.6	14.5	22.8	31.4	50	2	
γ Solis L. I	-	1.0	10.0	19.0	28.0	26	5	
L. II	-	-	27.7	36.6	Nubes	28		
α Canis minor.	-	5.5	13.8	22.2	-	27	7	
β Geminorum.	33.6	42.6	51.7	1.5	11.4	32	7	
α Ursae min.	49	18.5	25.0	59	27.5	34.0	9	53.5
	53	31.0	19.5	3	35.5	29.5	5	

* pro 41.5 ponatur 39.5
 Inter Nubes.
 $a = -0.247$ Seyff. 3 4 $x = +3' 57'' 430$ Rel. 2. 349
 $b = -0.255$ Kopf. 20 6 $x = +4' 14'' 74$ Rel. 1. 683 789
 $c = -0.035$ Feilb. 20 3 $x = +3' 23.34$ Rel. 2. 1521
 Merid 15 $2^0 23'' 55'$ 41.50.

23.	57.52	51	50	53	57.72	15.2	17.8	27.564	16.3	22+17.24	22	31	F. 57.70 N 15.4 J.
													2. Wobal
													F. 57.87 N 15.4 S 17.9
		43	43	43	44	57.60	16.9	16.1	27.510	16.1	17.82.		
	319.035.	36	35	36	57.64	16.1	16.9					49.	6
													M. F. 57.517
		38	39	38	40	57.72	16.1	16.9				51.	12
		41	40	40	41	57.65	16.1	16.9				53.	8
		42	42	42	44	57.60	16.4	16.5				57.	10
24.	44.46	45	45	49	58.10	14.1	18.7			+19.02			F. 57.78 N 15.5 S 17.6
43.	59.9	8	7	10	57.60	16.0	16.8	27.509	16.4	+19.46.			F. 57.88 N 15.0 S 17.7
24	26	20	20	19	22	57.65	15.8	16.4	27.468	17.0	+21.60	26	54
													Limb. Austr.
													F. 57.58 N 15.0 S 17.9
	41° 50' 42"	42	40	43	57.83	14.0	17.0						
	19° 4' 30"	29	29	31	57.73	13.0	17.7	27.444	17.7	23.40			
	319 0	43	43	43	45	57.70	15.9	15.9	27.436	17.1	18.54	48	54
		38	38	38	40	57.80	15.7	16.1				48	54
		40	40	40	42	57.72	15.9	15.9				50	55

Jan

1 h

α Arietis	10.8	19.7	28.5	37.3	46.7	54	1
α Ceti	57.8	4.1	12.4	—	—	50	2
α Bergei	52.6	5.7	17.6	30.3	43.4	9	3
α Tauri	45.8	54.4	2.7	11.4	19.7	23	4
α Solis L. I	59.2	8.2	17.0	25.5	35.3	30	5
α Solis L. II	—	—	35.3	43.5	—	32	—
α Capri	13.6	28.0	42.6	56.7	72.0	28	0
α Andr.	0.3	9.6	18.6	27.7	37.4	56	23
γ Pegasi	53.5	2.0	10.4	19.3	27.5	1	0
α Urs. min.	7.5	23.0	22.5	29.5	53.0	—	0
	53	55	—	3	5	—	—
	25.5	14.3	—	33.0	25.5	—	—

~~Parasub~~ (a = -0.220 b = -0.253) 44

Limbus II inter rubry

+ 18.9 - 22.9
 18.8 22.7
 a = 0.176
 b = -0.248
 c = -0.035
 Sep. 1^h 15' x = + 4' 47.62 Red. 2.508
 Nov. 19^h 58' x = + 4' 24.83 Red. 3.37
 Dec. 19^h 59' x = + 3' 26.91 Red. 1.19
 Merid. 18^h 23' 55' 34.61

F W P D l e 1 11

42	41	41	42	57.70	15.9	15.8	—	—	—	53	7
43	43	42	45	57.70	15.9	15.9	—	—	—	56	57
21.44.	46	44	44	48	58.00	14.5	17.0	—	—	+18.62	F. 57.85 S. 15.0 A. 16.6
43	59.8	10	8	10	57.98	14.3	16.9	27.447	+17.4	+19.20	F. 57.80 S. 16.1 A. 16.2
358.10.	31	31	32	34	57.70	15.3	15.9	—	—	+16.88	F. 57.70 S. 15.3 A. 15.9
31° 16' 39	37	38	40	57.95	14.4	16.4	27.449	+17.6	+20.44	—	M. F. 57.633
23	52	10	10	9	57.65	15.1	15.7	27.417	17.9	+20.20	30' 56" Limb. Bor.
351.47.	50	50	50	57.68	14.9	18.8	27.548	15.4	12.06	—	—
19.14.	25	26	25	26	58.03	13.9	20.8	—	—	+10.20	F. 57.90 S. 14.5 A. 17.1
33.8.	50	50	48	51	58.08	13.9	20.9	27.528	+14.5	—	—
43	43	44	45	57.48	15.6	19.0	27.525	+14.6	+11.22	—	57.67 S. 15.0 A. 19.9
319.0.	38	37	38	39	57.54	19.7	19.7	—	—	—	49. 27
40	40	40	41	57.50	15.4	19.2	—	—	—	—	51. 0
42	42	42	42	57.50	15.1	19.8	—	—	—	—	55. 32
43	42	42	44	57.48	15.5	19.1	—	—	—	—	57. 4

Junii						l	h	
21.	α Androm.	51.5	0.7	9.8	19.0	28.7	56	53
$\frac{h}{h}$	γ Pegasi.	45.5	32.7	2.2	10.6	19.4	1	0
		h9	54	59	4	9		
	δ Ursa min.	7.5	14.0	16.0	23.5	44.5		0
		5	55		3	5		
		19.0	8.3		26.0	19.4		
	α Ancty.	54.7	3.7	12.3	21.3	30.6	54	1
	α Tauri	29.3	37.7	16.3	—	—	22	h inter nubec.
23	α L. I	56.8	5.9	14.3	23.5	32.2	3	6
$\frac{0}{h}$	L. II	15.5	24.4	32.7	41.6	51.4	5	
	α Gem. sequen	4.5	14.5	23.8	33.6	43.4	20	7
	δ Canis min.	36.8	45.0	53.2	1.5	10.0	27	7
	β Geminorum	12.7	22.1	31.3	40.7	50.4	31	7
	Venerij limb I.	55.5	4.3	12.5	21.2	30.3	36	8

	F	W	S	D		e			
19.14.	24	23	24	26	57.90	15.7	20.4	57.70 Lib. 2 A 19.8	
33.8.	50	50	50	52	57.94	15.5	20.4	27.531 10.6 + 12.66	
	h3	h4	h4	h4	57.47	17.9	18.1	27.540 12.9 + 12.84 57.54 Lib. 0 A 18.9	
319.0.	37	37	38	38	57.47	17.8	18.1	h6. h2	
	39	40	40	41	57.43	17.9	18.0	50. h9	
	40	41	40	42	57.40	18.1	17.9	53. h9	
	42	42	43	44	57.45	18.0	18.0	56. 56	
24.44.	47	46	46	50	57.90	15.4	20.5	+15.26 57.60 Lib. 2 A 19.1	
31.16.	38	35	36	39	57.87	15.2	20.1	27.543 14.3 + 18.68 M.F. 57.229	
24.17	20	20	19	21	57.50	17.0	16.7	27.459 13.7 + 22.20 3' 56" L.A. F 57.50 Lib. 3 A 15.9	
15° 14' 58"	56	57	58	57	57.98	15.3	17.8	27.440 16.2 + 23.62	
41	50	46	44	44	46	57.88	16.0	17.1	
19	4	32	30	30	32	57.84	16.9	16.1	+ 23.62 F 57.73 Lib. 0 A 16.3
28° 52' 20	22	21	22	22	57.90	15.4	17.0	27.428 16.6 + 23.60 L.B.	

48	53	59	4	9
α Urs. min. 38.5	58.5	6.0	8.5	15.0
53	54	—	3	5
3.7	56.7	—	14.0	5.0

1 h
12

$+17.0 - 21.0$
 $17.0 \quad 20.7$ $\alpha_2 = -2.0$

$a = -0.197$
 $b = -0.241$
 $c = -0.035$

Supp. $10' 32'' x = +4' 16.4'' R. 2.324$

Kopf. $7' 3'' x = +4' 38.6'' R. 2.47$
Fertb. $7' 1'' x = +3' 33.18'' R. 1.32$

(Fertb. merid. $24^\circ 23' 56'' 25.89$.)

α Virginis	28.9	37.5	45.6	53.8	2.6	13	13
γ Urs. major	44.4	57.4	9.6	22.5	35.5	37	13
α Bootis	2.0	10.8	19.4	28.2	37.2	4	14
α Androm.	17.6	56.9	5.9	15.4	24.9	56	53
γ Pegasi	11.6	19.8	58.5	6.6	15.5	1	0
α Cassiope.	—	19.3	27.7	42.0	57.0	27	0
α Urs. min.	6.0	15.0	14.5	23.0	44.0	—	0
	53	55	—	3	5		
	18.0	56.0	—	24.0	18.5		

F	N	P	B	l	e	i	11		
57	58	59	59	58	58.15	15.0	16.9		
515	58.6	5	5	5	57.90	15.7	16.1	17. 58	
2	2	2	2	2	58.02	15.6	16.2	50. 17	
0	1	0	0	0	58.10	15.0	17.0	52. 31	
57	59	0	59	59	58.15	15.0	16.9	27.375 16.9 21.02 56. 40	
57	48.12	12	12	13	57.90	15.6	16.1	20.80	
357	22'	54	55	55	57	57.70	16.2	15.5	27.274 16.4 +19.80
27	28'	26	23	24	26	58.10	14.9	17.0	27.374 16.8 +19.40
19	14.	22	22	22	24	57.95	15.8	17.4	27.306 16.0 +14.62
33	8.	46	45	45	48	57.72	16.4	16.4	
351	47.	48	50	48	50	57.80	16.1	16.9	+15.48
43	43	43	44	44	44	57.70	17.0	16.0	27.311 16.0 +16.08
319	0.36	38	38	38	38	57.72	16.7	16.5	48. 44
40	40	40	40	40	40	57.70	17.0	16.1	50. 35
42	42	42	42	42	42	57.69	17.0	16.0	52. 33
43	43	43	44	44	44	57.70	17.0	16.1	56. 50

F 57.88 15.7 A 16.2

F. 57.78 15.9 A 16.0

F. 57.96 15.5 A 16.3

M.F. 57.761

F. 57.90 16.0 A 17.0

M.F. 57.760

16.1

26. γ Pegasi.	39.5	47.8	56.0	4.7	13.5	1	0
α Capriopi	56.6	11.4	25.7	40.0	55.0	27	0
α Urs. min.	9.7	17.0	16.5	22.5	46.5		0
	20.0	9.0		26.0	20.5		

$+16.1 - 21.1$
 $16.1 \quad 21.1$
 $a = -0.182$
 $b = -0.321$
 $c = -0.035$
 Logp. $1^{\circ} 13' x = +4^{\circ} 19.48 R. 1.152$
 Kopk. $19^{\circ} 34' x = +0^{\circ} 4.72$
 Fortb. $19 \ 31 \ x = +3^{\circ} 36.68 R. 1.088$
 Merid. 26. Fortb. $23^{\circ} 56' 23.07$

α Arietis	49.0	59.0	6.6	15.5	24.5	54	1
α Leti	39.9	42.4	50.3	58.6	7.2	50	2
27. α Androm.	40.8	50.1	59.3	8.5	18.1	56	23
γ Pegasi	34.5	43.3	51.5	59.6	8.3	1	0
α Capriopi	52.0	6.6	20.8	35.4	50.5	27	0
α Urs. min.	7.5	14.5	14.0	22.0	43.5		0
	18.5	10.5		24.5	18.0		

$+16.5 - 21.1$
 $16.7 \quad 21.1$
 $a = -0.059$
 $b = -0.286$
 $c = -0.035$
 Logp. $1^{\circ} 17' x = +4^{\circ} 24.281 R. 2.401$
 Kopk. $18^{\circ} 46' x = +0^{\circ} 12.48 R. 3.93$
 Fortb. $18 \ 47 \ x = +3^{\circ} 38.64 R. 0.99$
 Merid. 28. Fortb. $23^{\circ} 56' 21.15$

33.8.50	50	48	52	58.24	14.8	16.9	27.109	17.0	15.44
351.47.47	47	48	50	57.63	16.0	15.7			15.64
	42	42	43	57.67	16.6	15.0	27.115	17.0	15.68
319.0.37	37	38	38	57.76	16.1	15.8			14.19
	39	39	40	57.70	16.2	15.4			50.118
	41	41	42	57.68	16.4	15.1			53.0
	42	42	42	57.66	16.6	15.0			56.46
24.44.44	44	45	47	58.06	14.8	16.9			16.24
43.59.9	10	9	11	58.06	14.8	16.9	27.132	17.1	16.88
19.14.22	22	22	22	58.10	15.1	16.9	27.390	16.9	14.00
33.8.46	46	47	48	58.14	15.0	16.8			+44.20
351.47.48	47	48	50	57.80	16.1	15.9			+14.20
	42	43	44	57.60	17.2	14.8	27.402	16.7	+14.48
319.0.37	38	38	38	57.70	16.7	15.5			48.23
	39	40	41	57.68	17.0	15.1			50.47
	40	41	42	57.62	17.0	15.0			53.5
	42	42	42	57.60	17.1	14.9			56.58

T. 58.03 S 15.6 A 16.3
 M.F. 57.840
 T. 57.91 S 15.7 A 16.1
 T. 57.80 S 15.6 A 16.1
 T. 57.84 S 16.0 A 16.0
 T. 57.88 S 16.0 A 16.1

	1	2	3	4	5	6	7	8
27. α Ceti	29.3	37.4	45.5	52.7	2.2	50	2	
α Persei	26.4	38.8	51.4	3.7	16.6	9	3	
α Tauri	18.5	27.6	35.9	44.5	55.3	22	4	
28. Solis L. I	33.8	43.0	51.7	1.0	9.5	24	6	
II.	52.3	1.5	9.7	18.4	27.6	26		
α Gem. sequens	55.8	5.6	15.3	24.8	34.7	20	7	
α Caris min.	28.0	36.3	44.5	52.8	1.3	27	7	
β Geminorum	4.0	13.5	22.6	31.8	41.6	31	7	
Julii 2. α Cassiop.	41.5	55.8	9.8	24.7	39.6	27	0	
α Ursae min.	49' 1.0	54 10.0	59 9.7	4 16.8	9 40.0		0	
	53 10.0	55 3.5		3 21.0	<u>nubes</u>			
α Arietis	33.3	42.1	50.7	59.6	<u>nubes</u>	53	1	

α Gemin. + 4' 24" 72
 β Car. min. 25.12
 β Gemin. 25.01
 γ 26' + 4' 24" 95

+ 16.5 - 21.0
 16.1 21.1

	F	N	S	b	l	e	1	11				
43° 59'	9	7	7	8	58.05	15.2	16.9	27.427	16.8	15.48	F 57.90 S 15.7 A 16.5	
358.10.32	32	32	34	57.68	16.5	15.6				16.82	M.F. 57.842	
31. 16.34	31	33	35	57.53	16.3	15.2	27.432	17.1		18.40.	F 57.68 S 16.4 A 15.0	
24.23. 45	43	44	47	57.60	16.2	15.1	27.432	+17.4	+19.52	24. 34	L. A.	
											F 57.73 S 15.9 A 15.5	
15° 15' 0	58	58	0	58.04	15.1	16.1	27.427	17.5	+ 20.26		F 57.70 S 15.9 A 15.5	
41.50.	43	44	43	44	58.00	15.1	16.1				M.F. 57.785	
19° 4' 30"	30	30	31	57.93	15.1	16.0			+ 20.00			
351° 47' 45"	45	45	47	57.68	16.3	15.3	27.238	17.0		14.62		
319 0	42	42	42	42	57.60	17.3	14.2	27.239	17.0	15.64	49' 10"	F 57.83 S 16.3 A 15.4
	38	37	37	37	57.70	16.3	15.5				49' 10"	
	39	38	39	40	57.67	17.0	14.7				51 1	M.F. 57.820
	40	40	40	41	57.60	17.4	14.2				53 10	
	41	42	41	42	57.60	17.6	14.0				56 47	
24 44 44 42 41 44					58.00	15.6	16.1				16.90	F 57.70 S 15.9 A 16.0

Julii

6	α Andromed.	22.0	31.3	40.5	49.6	59.3	55	23
	γ Pegasi	15.7	24.0	32.5	40.5	49.8	0	0
	δ Cassiop.	33.3	48.0	2.2	16.5	32.0	27	0
	α Urs. min.	55.0	4.0	5.5	14.5	33.0	0	0
		11.7	2.0	—	16.0	8.5		

$a = +0.002$
 $b = -0.334$
 $c = -0.035$

Stiff. $0^h 8^m x = +4^h 43^m 37^s$ Oct. 2. 123
 Prop. 1950 $x = +0^h 47^m 43^s$ Oct. 3. 92
 Fortb. 1946 $x = +3^h 47^m 22^s$ Oct. 0. 95
 Merid. 7. In. Fortb. $23^h 56^m 12^s$ 62.

Di 8. Julii instrumentum decompositum,
 quicquam obloz recati provisum. Ad
 in festigandam collimationis filorum errorum
 circulus rursus versus Orientem positus.

7	α Andromed	19.9	29.7	38.4	47.5	57.6	55	23
	γ Pegasi	13.6	22.2	30.3	38.6	47.5	0	0
	δ Cassiop.	31.3	46.1	0.3	14.6	29.7	27	0
	α Ursae min.	17.7	38.6	—	—	—	—	—
		42.7	36.4	—	—	—	—	—

Circulus ad Occidentem $2^h 53^m 9^s$ $14^m 7^s$
 $2^h 53^m 6^s$ $4^m 18^s 2^s$

$Ax = 1.0$ $+18.1$ -21.9
 18.0 22.0

Oriens. $l = 13^h 58^m 47^s.055$
 Occid. $l = 13^h 58^m 44^s.700$

19	14	20	20	20	22	58.13	15.4	17.8	27.366	15.8	12.02
33	8	46	46	46	46	58.10	15.7	17.9			
351	47	45	45	44	46	57.70	17.3	16.1		12.06	
		42	42	42	43	57.70	17.3	16.1	27.274	+15.7	+12.74
319.0.	37	38	38	38	38	57.68	17.4	16.1			46. 37
	38	39	40	40	40	57.60	17.4	16.0			50. 26
	42	42	42	42	42	57.60	16.9	16.7			56. 32
	42	42	42	43	43	58.12	15.8	17.7			5. 1
	41	42	41	42	42	58.18	15.4	16.0			7. 13

F 57.90 S 16.1 A. 17.1
 57.80 S 17.0 A 16.4
 M.F. 57.822

19	14	20	22	21	22	58.03	15.9	17.1	27.372	16.0	11.00
33	8	46	46	46	47	58.06	15.9	17.4			
351	47	47	46	48	48	57.50	17.9	15.6		11.88	

F 57.55 S 17.6 A. 15.5
 M.F. 57.838

	1	2	3	4	5	6	7	8	9	10
α Andromed.	15.5	25.6	34.6	43.8	53.3	55	0			
γ Pegasi	9.5	18.4	27.2	34.8	43.0	0	0	+19.1	+22.5	
α Cassiopeiae	27.0	42.2	56.4	10.8	25.4	27	0			
α Ursae min.	48 32.3	53 53	59 0.0	4 2.5	9 8.0	0				
	52 56.5	54 51.5		3 8.7	4 58.5					
α Arietis	19.4	28.5	37.5	46.9	54.7	53	1			
α Aleti.	4.4	12.8	20.9	28.5	37.2	49	2			
α Persei.	1.4	14.5	27.0	39.4	51.7	8	3			
α Tauri	53.9	3.0	—	—	—	22	4			

α Ursae min.	48 29.1	53 49.7	Circulus ad Occidentem		0	+18.4 - 21.6	
	52 54.6	54 47.7	4' 5" 9	27.1		+18.0 - 21.9	
			3' 8" 4	0" 3		18.1 21.6	

α Urs. min. under mubes.
 $a = -0.001$ } Sept. 1" 48' x = + 4' 49.016 R. 1.839
 $b = -0.280$ } Feb. 18 51 x = + 58.41 R. 3.445
 $c = +0.006$ } Feb. 18 45 x = + 3' 48.88 R. 0.545
 Merid. 14. Subi Feb. 23 56 11.00.

~~+17.9 - 21.9~~
~~18.1 21.7~~

Occid. $P = 0' 58' 58.52$
 Cray $P = 0' 58' 56.955$

F	V	P	S	L	o	1	11
340	44	20	20	21	14.0	20.9	27.375 14.6 10.28
326	50	0	0	0	16.1	19.9	
8	10	50	50	53	14.1	20.6	10.60
335	13	57	55	57	13.0	21.8	12.20
15	59	36	38	37	13.7	21.1	27.412 14.7 13.00
1	48	4	6	7	14.1	20.6	13.28
328	42	10	10	10	12.5	22.0	27.430 15.1 14.28

Jan
13. α Androm. J. 1 18.6 27.5 36.8 46.6 55 23

γ Pegasi. 2.8 11.3 19.7 27.9 36.9 0 0

α Ursaemin. ⁴⁸ 44 ⁵³ 55.7
⁵² 58.5 ⁵⁴ 50.7
Circulus ad Orientem

Circulus ad Occidentem ⁴³ 57.2 ⁹ 2.7
³ 2.7 ⁴ 52.7

α Arietis 11.8 21.0 29.7 38.6 47.5 53 1

α Ceti 57.2 5.6 13.7 21.8 29.8 49 2

α Persei 54.3 7.3 19.8 32.2 44.5 8 3

α Tauri 46.7 58.6 4.4 12.5 21.0 22 4

+ 18.9 - 22.9 $b = -0.2482$
18.9 22.8

α Urs. min. tremulans. $t = 58' 54.985$

+ 19.1 - 22.7 $b = -0.2802$
19.0 22.9 $t = 58' 56.065$

Circulus ad Occidentem
Error collimationis ex observ. Jul. $c = +0.01342$ Circ. ad
11 Jul. $c = +0.00581$ Orientem
13 Jul. $c = +0.00665$ Circ. ad Occid.

Est itaq; error collimationis, habito aberrationis
hiisq; respectu
 $c = -0.0067$ Circ. ad Occid.
 $c = -0.0227$ Circ. ad Orientem
 $c = -0.002$ Or.
 $c = -0.026$ Occid.

Die 13. Julii $a = -0.019$
Sept. 2^h 1' $x = +4' 56.448$ Ret. 1.852
Nov. 19 31 $x = +1' 13.16$ Ret. 3.65
Febr. 1931 $x = +3' 51.58$ Ret. 0.67
Merid. 23^h 56' 8.30

F N P D L e i "

315	59	28	39	40	40	52.77	15.6	19.1	27.510	14.8	12.86
1° 48'	9"	8	8	10	52.80	15.8	18.9		13.26		
328	42	10	10	10	10	53.73	15.2	19.0	27.507	15.1	14.48

53.92 Sib. 1 A 19.5

53.90 Sib. 0 A 18.3

53.86 Sib. 9 A 18.5

Julii
25.

α Virginis	27.6	—	—	52.6	1.0	12	13
γ Urs. majoris	42.2	55.6	8.3	20.6	33.7	36	13
α Bootis	0.5	9.5	18.6	26.9	35.9	3	14
δ Librae	33.3	41.6	50.6	—	—	26	14
ϵ Librae	—	—	1.7	10.1	18.7	37	14
β Urs. min.	52.7	25.6	56.7	27.0	58.6	46	14
α Coronae bor.	32.0	41.6	50.7	59.7	9.2	23	15
α Serpentis	4.6	13.2	21.6	29.5	37.7	31	15
Luna L.I	30.8	40.8	49.7	58.8	8.0	34	16
γ α Urs. min	7.2	29.0	35.2	37.5	46.0		0
	52	54	—	2	4		
	34.5	25.0	—	44.5	34.0		

$+22.4 - 22.2$
 $19.7 \quad 22.2$
 $a = -0.260$ } $Suff. 14^h 28^m + 5^h 17^m 33^s$ $Rel. 1.780$
 $b = -0.225$ } $Arg. 7 18x = +1$ 54.57 $Rel. 2.539$
 $c = -0.026$ } $Falk. 7 7x = +4$ 0.066 $Rel. 0.701$
 $Merid. 26^h . 23^m 55^s$ $sq. 45$

Az - 3.0

$+19.1 - 22.1$
 $19.2 \quad 22.0$

F N P B L E I II

42	42	42	45	53.83	16.1	18.3			56.29
30	2.10	34	34	36	35	53.90	16.9	17.9	18.32
2	35	48	51	52	52	54.35	18.2	16.0	18.02
32	30	20	20	21	22	53.80	16.3	18.0	+17.60
97	8	20	18	20	20	54.20	17.9	16.3	27.356
27	17	29	29	29	30	54.24	18.2	16.0	17.04
39	45	11	10	12	12	54.14	16.9	17.4	27.369
19	26	10	11	10	11	53.94	16.9	17.2	15.88
28	34	28	25	24	26	54.20	18.4	15.9	27.384
5	5	4	6	54.48	18.7	15.5	27.529	15.0	+12.40
10	58.	9	9	8	10	54.16	17.9	16.5	47.29
8	6	7	8	54.38	18.4	15.8			50.7
6	6	6	8	54.45	18.8	15.4			52.4
5	5	5	6	54.48	18.7	15.5			56.15

54.00 $S 17.0$ $A 17.1$
 M.J. 53.968

54.00 $S 17.2$ $A 17.0$

Limb. boreal.

54.10 $S 17.6$ $A 16.6$

Julii

27. α Arietis. 47.5 56.7 5.6 14.0 29.3 53 1

β Mos. min 50.5 21.7 51.8 23.4 — 46 2

α Ceti. 32.6 40.8 49.3 57.1 5.5 49 2

α Persei. 29.6 42.7 55.1 7.5 20.0 8 3

α Tauri. 22.2 31.0 39.6 47.7 56.6 21 4

α Aurigae. 27.7 40.2 51.8 3.4 — 0 5

28. α Urs. min 23.5 31.0 33.2 39.0 1.5 12
48 52 54
53 58 3 9
52 54 — 2 4
35.5 26.0 — 41.5 35.5

α Virginis. 22.5 31.3 39.6 47.7 55.9 11 13

γ Urs. maj. 36.7 50.2 2.8 15.4 28.0 36 13

α Bootis 55.5 4.7 13.3 21.8 30.6 3 14

$a = -0.118$ } $S. 3^h 19^m x = +5'$ 21.558 R. 1.665. 14.4 5 4 6
 $b = -0.221$ } $R. 19 47 x = +2'$ 3.59 R. 3.570
 $c = -0.002$ } $F. 19 48 x = +4'$ 2.17 R. 0.8347. 14.4 3 4 4
Merid. 28^h 23^m 55^s 57.69

$a = -0.158$ } $S. 3^h 19^m x = +5'$ 21.696 R. 172
 $b = -0.221$ } $R. 19 47 x = +2'$ 3.75 R. 3.64
 $c = -0.026$ } $F. 19 48 x = +4'$ 2.32 R. 0.89
Merid. 28^h 23^m 55^s 57.53

T	N	P	B	L	e	1	11	
54.00	16.9	17.4						+12.22.
54.12	17.7	16.7						
5.59.45	46	46	47	54.10	17.9	16.6	27.545	15.0 +14.00.
54.10	18.0	16.4						
48.10	9	10	10	54.04	17.0	17.3		+14.02
54.10	18.0	16.1						
8.42.12	13	12	14	54.00	17.0	17.2	27.542	15.1 15.00
58.20.2	2	2	4	54.03	17.1	17.0	27.550	15.3 17.00
49	41	42	45	53.84	15.1	17.1	27.540	16.5 17.68
54.15	17.0	15.6						
40.37	34	36	38	53.90	15.1	17.1		47. 56
40	36	39	42	53.84	15.1	17.1		50. 36
41	38	40	43	53.80	15.1	17.1		52. 35
42	40	41	45	53.80	15.0	17.1		56. 26
02.10.39	35	38	38	53.90	16.1	16.1		+17.60
1.35.50	50	50	50	54.10	16.1	16.1		+17.48.
02.30.26	24	25	28	54.00	16.1	15.2	27.540	16.5 +17.42.
54.00	16.1							

54.00 16.1²

Julii

28. Inquisitione in valoribus divisionis, rectis fracti:

α Urs. min. δ $a = -0.159$
 $b = -0.232$
 $c = -0.026.$

α Virginij + δ 22.28
 γ Urs. mj. 22.55
 α Bootij 22.25

13^h 37^m α + δ 22^m 36^s

α Urs. min. δ 5 28.5 37.0 39.5 44.5 0
52 54 2 4
233.7 27.2 44.5 34.5

+18.9 - 22.0
18.9 21.9

α Arietis 45.8 55.3 3.9 12.6 21.6 53 1

β Urs. min. 44 44.5 56.5 19.8 21.7 46 2

~~13.6 19.9 21.7~~

α Ceti 30.7 39.4 47.6 55.7 3.8 49 2

F N P h i e i 11

67.59.10 6 8 10 79.90 267° 59' 8.50 J.

67.52.52 48 50 51 34.50 267 52 50.25

67.59.21 17 19 20 82.24 267 59 19.25

67.55.40 36 38 40 31.80 267 55 38.50

67.59.14 9 12 14 80.70 267 59 12.25

67.55.24 19 21 25 28.16 267 55 22.25

5 5 5 6 54.66 19.1 14.3 27.540 15.2 12.08

58. 9 8 10 11 54.50 18.4 15.1 48. 0

7 7 8 10 54.43 18.2 15.4 50. 30

6 5 6 8 54.55 18.8 15.0 52. 13

5 5 6 7 54.65 19.1 14.5 56. 19

5^h 14^m 7 7 7 9 54.28 17.8 16.1 12.48

41.2 1 3 4 54.10 17.3 16.7

5.59.46 46 47 47 54.18 17.5 16.5 27.436 + 15.2 13.46

Valor datus partis
divisionis, qua rectis fracti
gaudet, eandem sgr:
4.365 (1.2)
4.378 (2.3)
4.368 (3.4)
4.371 (4.5)
4.378 (5.6)

Med = 4.372

F. 54.43 P. 18.6 A. 15.1

54.38 P. 18.4 A. 15.6

Ju *Ju* 1 2

28 + Persi	28.9	41.3	59.7	6.4	18.6	8	3
α Tauri	20.5	29.6	37.8	16.6	54.8	21	4
α Aurige	26.5	38.6	50.6	1.8	—	0	5
β Orionis	24.6	33.0	41.5	19.6	57.7	i	5
β Tauri	46.6	56.5	5.5	14.6	24.4	ii	5
α Orionis	5.8	14.5	22.6	30.8	38.9	41	5
α Can. maj.	37.7	46.0	54.6	2.8	12.7	33	6
α Gemin. seq.	—	—	17.3	26.5	36.0	19	7
α Can. min.	29.5	38.1	46.3	54.6	2.6	26	7
β Geminor.	5.2	15.2	24.6	33.5	42.7	30	7
Veneris L. II	39.2	47.8	56.2	3.6	12.7	47	7
29 Solis L. I	5.5	14.3	23.0	31.0	40.0	28	8
L. II	19.5	28.6	36.8	45.5	54.4	30	
	48	53	58	3	9		
α Urs. min.	20.5	29.5	31.7	38.7	0.5		12
	52	54	—	2	4		
	35.2	24.0	—	41.0	35.0		

α Arctis + 5' 23.01
 β Urs. min. 23.25
 α Ceti 23.13
 α Persi 23.08
 α Tauri 23.18
 α Auriga 23.17
 β Orionis 23.11
 β Tauri 23.15
 α Orionis 23.18
 α Can. maj. 23.05
 α Gem. seq. 23.22
 α Can. min. 23.48
 β Geminor. 23.43

 $4^h 58' + 5'$ 23.188. Ref. ab 27-28 Julii
 diurna = 1.396.
 28 Julii Rob. 19^h 47' x = +2' 7.52 Ref. 3.77
 Febr. 19 46' x = +4' 3.36 Ref. 1.04.
 Merid. 29. Julii Febr. (23^h 55' 56.46).

T W P S e e i n

1.48.	9	10	10	12	54.22	17.5	16.4		+13.66	
328.42.16	13	14	15	54.10	17.4	16.4	27.539	15.4	+15.40	54.28 Sib. 0 A 16.0
358.20.1	1	2	3	54.10	17.3	16.3				
304.8.30	26	27	28	54.08	17.1	16.4	27.540	15.6	16.00	54.25 Sib. 1 A 16.7
340.58.39	40	42	40	54.45	18.2	15.2			16.40.	M.F. 53.979
319.53.20	20	20	20	54.02	16.9	16.7	27.538	15.7	16.62.	54.28 Sib. 0 15.4
296.1.39	39	40	40	54.10	17.0	16.4	27.539	15.9	17.40.	
344.43.43	44	45	46	54.00	16.4	16.8				
318.8.4	5	6	6	54.00	16.8	16.2	27.537	16.1	+18.56	
340.54.16	14	15	16	54.04	16.8	16.1				
326.29.32	32	33	34	54.05	16.7	16.0	27.531	+16.2	+19.60.	L. B. andulans.
330.57.10	8	10	10	54.20	17.0	15.9	27.520	+16.4	+18.82	28' 58" L.A.
										54.24 Sib. 9 A 15.4
	46	44	45	48	54.50	17.3	14.7	27.446	16.7	14.80
	44.0.	41	40	40	43	54.50	17.2	14.9		49. 25'
	45	43	43	46	54.55	17.2	14.7			55. 5'

Julii 29.

α Virginis. 21.0 29.6 37.8 46.0 54.5 11 19

η Urs. maj. 35.9 48.6 1.5 13.8 26.6 36 19 ar. -2.2.

β Urs. min. 46.4 18.8 49.8 20.4 51.6 46. 14

13.5 24.6 14.7 26.4

α Serpentis 57.8 6.7 14.7 22.8 31.0 31 15
48 53 58 3 8

30. α Urs. min. 7.7 26.0 37.0 37.0 44.0 30
52 54 — 2 4
32.5 27.0 — 42.5 32.0

+ 19.1 - 22.7
19.2 22.9
a = -0.149
b = -0.273
c = -0.026.
 α Arietis ... + 5' 26.48
 β Orionis 26.80
 β Tauri 26.89
 α Orionis 26.85
 α Can. maj. 26.59
 α Gemin. 26.99
 α Can. min. 27.12

α Arietis 42.5 51.5 0.7 9.4 18.3 53 1

β Orionis 20.8 29.7 37.7 45.9 54.2 1 5

β Tauri 43.0 52.7 2.0 11.3 20.4 17 5

α Orionis 2.3 10.5 19.1 27.1 35.6 41 5

α Canis maj. 33.6 42.6 51.2 59.7 8.2 33 6

5' 23' x = + 5' 26.814 Rel. 1.791
Kop. 19^h 08' x = + 2' 15.41 Rel. 3.96
Sudb. 19 37 x = + 4 5.35 Rel. 1.00
Merid. 21. 2^h 23' 55' 54.47

F N P S

40	39	40	42	54.02	16.0	16.0			5. 39
302.10	39	36	38	38	54.00	16.1	16.0	+ 19.44	54.40 S 17.0 A 15.0
2.35.	50	50	50	52	54.10	16.1	16.0	+ 19.62	54.24 S 16.6 A 15.6
27.17.	29	28	27	30	54.18	16.1	16.0	27.424 16.6 + 18.88	M.F. 34.094
319	26	10	10	10	12	54.10	16.1	16.0	27.418 16.6 + 17.88
7	6	6	8	54.88	19.9	14.9	27.219	14.2 + 10.80.	54.48 S 18.6 A 16.0
40.58.	11	10	11	14	54.77	19.4	15.2		17. 30
10	9	8	12	54.78	19.3	15.2			50. 23
8	7	7	10	54.80	19.8	14.9			52. 2
7	6	6	9	54.85	19.9	14.9			56. 19
335.14.	5	4	6	6	54.18	18.0	17.0	+ 10.42	54.30 S 18.5 A 16.4
304	8	30	28	30	31	54.50	19.0	15.5	27.307 14.9 + 14.88
340	58	36	38	37	38	54.17	18.1	16.4	+ 10.04 M.F. 52.991
319	53	20	20	20	20	54.08	17.4	17.1	27.297 15.1 + 15.80 54.20 S 18.5 A 16.0
296	1	40	37	38	38	54.10	17.12	17.0	27.290 15.4 + 16.64 54.15 S 17.8

20	α Gemin. praec	53.4	13.0	22.3	32.3	19	7
	α Gemin. sequ.	2.8	3.8	22.7			
	α Canis min.	26.1	34.6	43.0	50.5	59.0	25 7
Aug. 2	α Urs. min.	4.5	25.0	33.7	32.5	42.0	0
		52	54		2	4	
		30.0	22.0		40.5	30.0	

+20.9 - 23.0
20.0 24.2.

Error pro 2 & 3 Aug.

α Urs. min. S. 2 Aug. } $a = -0.112$
 α Urs. min. S. 3 Aug.

α Urs. min. S. 2 Aug. } $a = -0.111$
 α Urs. min. S. 3 Aug.

δ Urs. min. S. 2 Aug. } $a = -0.107$
 δ Urs. min. S. 3 Aug.

day $a = -0.11$

2 Aug. $b = -0.249$
3 Aug. $b = -0.259$

	α Arietis.	37.3	46.6	54.5	2.7	13.1	53 1
	β Ursa min.	44'39".4	10.6	41.1	12.4		46 2
		5.3	16.6		6.7	18.3	
	α Ceti	22.4	30.7	39.0	46.8	55.4	48 2
	α Tauri.	12.0	20.8	29.6	37.8	46.4	21 4
	α Aurigae	17.8	30.0	41.7	53.0		59 4
	β Orionis			32.6	40.7	49.0	1 5
	β Tauri.	37.8	47.6	56.8	6.8	16.2	11 5

- α Arietis + 5' 31.75
- β Urs. min. 31.67
- α Ceti 31.86
- α Tauri 31.86
- α Aurigae 32.12
- β Orionis 32.06
- β Tauri 32.18
- α Orionis 32.04
- α Can. mag. 31.84
- α Geminor. 31.94
- α Can. min 32.24
- β Gemin. 32.36
- 5^h 7^m $x = +5'$ 31.993

Ref. dur. 1.707

F W P B e 1 11

44° 42'	46	46	47	47	54.04	16.9	17.0	+17.68
18 8	8	8	8	8	54.04	17.2	16.5	+18.00
5	5	5	8	54.70	20.8	15.9	27.410	+13.1 +9.60
40.58.	8	9	8	12	54.65	20.7	16.0	47. 47
7	7	8	10	54.64	20.6	16.0	50. 21	
7	7	7	9	54.70	20.8	15.9	51. 58	
6	5	5	8	54.70	20.9	15.9	56. 20	
335.14.	7	6	7	8	54.10	18.6	18.6	+9.00
57 41	4	4	6	4	54.40	19.8	16.9	54.10 S 19.0 A 17.8
315 59	46	46	46	48	54.13	19.2	17.4	27.428 +13.2 -10.66
328.42.76	14	15	15	54.00	18.0	18.4	27.447	+10.4 +12.42
358 20	0	2	2	2	53.98	18.1	18.1	
304 8	29	28	30	30	54.03	18.3	18.0	+12.44
340 58	38	37	38	38	53.96	18.1	18.1	27.487 +13.5 +12.82

54.35 S 19.8 A 16.8.

54.10 S 19.0 A 17.8

M.F. 53.947

54.20 S 19.2 A 17.0

2. a Orionis. 57.0 5.7 13.9 22.0 30.3 h1 5
 12 14 17 19 21
 δ Urs. min. 33.5 51.5 5.5 24.7 48.3 C
 14 15 — 18
 27.0 16.0 — 57.7 —

α Can. maj. 28.4 37.6 46.0 54.5 2.7 33 C
 α Cen. par. 45.4 8.3 27.4 19 7

58.7 17.8

α Can. min. 21.0 29.3 37.7 45.8 53.9 25 7

β Luminor. 56.7 6.3 15.5 24.6 54.0 30 7

Venus L. II. 16.7 24.6 29.4 41.5 49.7
~~16.7~~ ~~24.6~~ ~~29.4~~ ~~41.5~~ ~~49.7~~ 36 7

3 Solis L. I 22.7 31.7 40.0 48.5 57.0 47 8

L. II 35.8 44.8 53.6 1.8 10.5 50

Mercurii L. I. 28.6 37.6 46.4 54.8 2.8 43 9

F W P D L e i h

19.53.18 19 20 21 53.90 17.8 18.6 13.46 54.08 18.4 11
 22 22 22 23 53.95 17.4 18.4 ~~12~~ ~~10~~ 54.08 18.0 18.0
 5.53.21 20 20 20 54.10 16.2 17.8 12. 10
 21 22 22 22 54.00 17.9 18.1 14. 9
 22 21 22 22 53.90 17.4 18.6 27.461 10.9 14.22 18 12
 96.1.40 40 40 40 53.88 17.4 18.4 +14.28 ~~11~~
 44.43.46 47 47 47 53.90 17.4 18.1 54.22 19.1 16.3
 15.8.7 5 8 7 53.73 16.4 19.1
 40.54.13 12 14 14 53.80 16.0 19.1 27.460 14.1 +15.20
 26.37.46 45 46 47 53.72 15.9 19.1 +14.68 L. Bor.
 30 13 29 30 30 31 53.90 17.0 17.9 27.450 14.7 +16.68 48' 18" L. Bor.
 27 23 38 39 39 42 53.98 17.2 17.2 27.438 15.0 +18.04

178.