

1844 Nov 29 - 1845 Juni 11

8

ho. 5

3

3.

3h

32

8

ho.

1844

Novemb. Pleani Cent. 1. 3	9.6	17.4	26.0	34.0	12	0
29 <sup>7</sup>						
$\alpha$ Caspiop.	39.7	54.1	8.5	23.3	34	0
	56	1	6	11	17	
$\alpha$ Urse min.	29.0	39.3	38.0	50.0	16.9	1
	0	2	—	10	12	
	44.0	37.0	—	49.0	49.0	

+28.9-30.0  
27.0 32.0  
 $\alpha$  Urse min. sup?  $a = -0.424$   $\alpha$  Bisc. a. sup.  $-2' 20.84$   
inf?  $b = -0.186$   $\alpha$  Begefi 21.31  
 $c = -0.026$   $\alpha$  Androm. 21.51  
 $\gamma$  Begefi 21.34  
 $\alpha$  Caspiop. 21.21  
 $\alpha$  Arielis 21.29  
Nov. 29.  $\alpha$  h.  $x = -2' 21.267$   
Accel. d. =  $1.996$

Feb. 20<sup>h</sup> 45'  $x = +5' 3.43$  (Feb. 0.133 Accel.)  
Merid. 30<sup>h</sup> 23' 54' 56.59.

$\alpha$ Arielis	32.4	41.7	50.4	39.3	8.4	1	2
	56	1	6	11	—		
$\alpha$ Urse min.	18.5	38.5	52.0	54.7	—	13	
	0	2	—	10	12		
	42.0	34.5	—	58.7	47.5		

Stella via conspicua et nimio p. ingueta  
Omnes observationibus D<sup>ni</sup> Adjuncti ab  $\alpha$  Caspiop.  
27 Nov. usq.  $\alpha$  Virginis 29 Nov. inclusive Status  
horologiorum sequens est:  
Sept. 27. Nov. 19<sup>h</sup> 45'  $x = -2' 16.647$  A. 1.563  
30 Nov. 21 54 22.470 A. 1.888  
2. Dec. 21 54 26.170 A. 1.850  
4 Dec. 22 15 30.55 A. 2.174

Virginis	8.2	16.3	24.6	33.1	—	19	13
30 Solis L. I	28.4	37.9	46.8	53.3	4.4	28	16
L. II	49.8	58.8	7.5	16.6	25.5	30	16
$\gamma$ Aquila	59.6	7.6	15.4	24.6	33.0	41	19
$\alpha$ Aquila	19.6	27.9	35.8	44.0	52.6	45	19
$\beta$ Aquila	48.5	56.4	4.4	12.5	21.6	50	19

Feb. Nov. 6<sup>h</sup>  $\alpha = +5' 3.61$  R. 0.15  
30. 0<sup>h</sup> 1'  $\alpha = +5' 3.97$  R. 0.12  
Dec. 1 23 59  $\alpha = 4.43$  R. 0.23  
2 6 6  $\alpha = 5.14$  R. 0.31.  
(Merid. 5. Decembr. 23<sup>h</sup> 54' 54.63).

F V S h l e 1 11

47. 10. h	6	h	5	58.09	23.3	24.4	27.577	+4.7	-0.60				
351. 47. 12	13	13	15	57.80	24.0	24.0			0.64	F 57.81	P 24.4	A 23.7	
319. 0	10	11	10	10	57.40	25.3	22.8	27.574	+4.2	-0.68			
318. 59. 58	60	60	60	57.50	24.9	23.1	27.574	+4.2	-0.6856	. 15			
319. 0	0	2	2	h	57.30	25.1	23.0			58. 44			
	4	5	5	6	57.40	25.2	22.9			0. 41			
	8	8	8	8	57.40	25.1	23.0			4. 29			
24. 44. 24	24	24	26	57.76	24.0	24.0	27.581	+4.2	-1.01				
46	49	47	49	57.70	24.0	24.0	27.648	+4.1	-2.60		F 57.40	P 23.0	A 24.8
315. 58. 52	55	55	56	57.88	23.8	24.2				56. 5			
52	54	54	54	57.88	23.9	24.1				58. 2			
48	52	51	52	57.90	23.5	24.3				0. 26			
47	50	50	51	57.71	23.8	24.1				4. 56			
57. 48. 2	h	3	h	57.80	22.8	24.3				2.60			
68. 53. 16	18	16	16	57.72	23.6	24.0	27.672	-4.7	-1.00	28. 23	L. B.		
37. 13. 17	17	18	20	57.80	23.0	22.8	27.682	+5.7	-0.22		F. 57.58	P 23.2	A 22.5
38. 59. 50	49	47	50	57.86	23.0	22.9				-0.22			



Dec. $\gamma$ Pegasi	26.5	35.0	42.0	52.0	0.5	8	0
2. Uranus Cent.	0.7	8.6	16.7	25.0	33.6	12	0
$\alpha$ Ursa. min.	26.5	34.5	32.5	42.5	13.5		1
	38.5	26.5		30.5	38.0		

$c = -0.026$   
 $b = -0.176$   
 $a = -0.575$

$\gamma$  Aquila ... -2' 26.03  
 $\alpha$  - 26.05  
 $\beta$  - 25.89  
 $\alpha$  Pegasus ... 26.26  
 $\alpha$  Pegasus 26.43  
 $\alpha$  Androm. 26.62  
 $\gamma$  Pegasus 25.91

Decbr 2. 21<sup>h</sup> 54'  $\alpha = -2'$  26.170 Acc. 1<sup>h</sup> 839  
 Ferlbauer 23<sup>h</sup> 59'  $\alpha = +5'$  4<sup>h</sup> 43 No. 0.26  
 3 Decbr. Merid. Ferlb. 23<sup>h</sup> 54' 55".84  
 Kofek 23<sup>h</sup> 50'  $\alpha = +11'$  4<sup>h</sup> 39

4. $\gamma$ Aquila	7.4	15.9	24.0	32.3	41.3	41	19
$\alpha$ -	27.6	35.7	42.8	52.0	0.8	46	19
$\alpha$ Pegasus	17.3	26.9	36.4	45.5	55.2	51	22
$\alpha$ Pegasus	18.0	26.3	34.4	43.3	51.9	59	22
Jan I	10.2	26.5	<del>37.7</del>	43.3	44		
II	21.6	26.4	37.6				

$+20.5-22.2$   
 $28.0-34.0$

continuation observations ...

$\alpha$ Androm.	37.3	46.4	55.5	5.5	15.0	3	0
$\gamma$ Pegasus	31.3	39.5				8	0
5. $\gamma$ Aquila	9.4	18.1	25.5		43.3	41	19
$\alpha$ -	29.8	38.0	46.0	54.3	2.5	46	19

33	8	22	22	23	26	57.34	25.8	22.0		
47	ii	28	26	26	28	57.80	24.0	23.9		-1.82
319	0	6	7	7	7	57.78	23.7	24.0	27.610	+3.8 -2.06
0	0	0	2	1	1	57.45	25.0	22.7		57' 7"
1	1	1	1	1	1	57.50	24.9	22.9		58' 40"
4	4	5	5	5	5	57.30	25.0	22.6		2' 45
6	7	6	6	6	6	57.78	24.3	23.1		4' 25
37	13	15	16	17	18	57.35	24.3	24.1		57.48 24.9 23.7
38	59	50	49	49	50	57.60	23.7	25.0	27.830	+3.5 -4.62
77	50	37	36	36	36	57.68	23.3	25.4	27.830	+2.6 -5.60
33	5	21	22	22	24	57.80	23.7	25.1		L. 57.44 25.0 24.0
50	56	8	6	8	8	57.58	25.0	24.2	27.834	+2.4 -5.82
19	13	47	48	48	50	57.18	25.4	23.9	27.739	+2.4 -5.86
37	13	12	13	14	16	57.04	24.8	24.1	27.694	+2.9 -3.40
38	59	47	44	46	47	57.08	24.8	24.2		57.00 25.0 24.0

57.60 Seno A 23.6

57.48 24.9 23.7  
L. 57.30 25.0 24.9

L. 57.44 25.0 24.0

L.A. 57.33 24.7 A 24.5

57.33 24.8 A 24.6

57.00 25.0 A 24.0

Jan. 11	49	58	7	17	26		
$\alpha$ Ursae min.	10.5	28.7	48.7	17.5	39.0	13	
$\alpha$ Virginis	—	2.4	16.8	32.0	47.3	21	13
$\eta$ Ursae major.	53.4	16.5	39.8	3.0	26.1	46	13
$\alpha$ Bootis	18.3	34.3	50.1	6.2	21.4	13	14
$\alpha$ Librae	51.6	6.3	22.3	37.3	52.5	46	14
$\alpha^2$ Librae	2.6	18.2	33.7	49.2	4.2	47	14
$\beta$ Ursae min.	53	31.2	54	28.5	55	24.8	56
$\alpha$ Coronae bor.	47.9	4.4	21.3	38.4	22	44.9	32
$\alpha$ Serpentis	22.4	37.3	52.3	7.7	22.4	41	15
$\beta$ Ursae min.	17	0	38.0	58.7	20.0	44.0	13
$\alpha$ Virginis	49.7	4.8	19.7	35.0	49.8	21	13
$\eta$ Ursae maj.	56.3	19.5	42.7	5.7	28.8	46	13
$\alpha$ Bootis	21.2	37.1	52.7	8.5	14.3	13	14
$\alpha$ Librae	54.2	9.4	24.5	40.2	55.5	46	14
$\alpha^2$ Librae	5.3	20.9	36.2	51.4	6.6	47	14
$\beta$ Ursae min.	—	54	31.2	55	27.8	56	24.3
$\alpha$ Serpentis	25.3	40.2	54.9	10.3	25.5	41	15

Observationes inde ab hodierna (11<sup>a</sup>) die ad tubum culminatorium infilulae sunt.

+14.9 - 8.2 a = +0.266  
 6.9 15.9 b = -0.088  
 c = 0 posito.

- $\alpha$  Virginis - 4' 14" 03
- $\eta$  Ursae maj. 13.64
- $\alpha$  Bootis 13.97
- $\alpha$  Librae 13.82
- $\alpha^2$  Librae 14.04
- $\alpha$  Coronae 13.84
- $\alpha$  Serpent. 14.03

Januarii 11<sup>a</sup> 14<sup>a</sup> 35<sup>a</sup> x = -4' 13.906 Accel. 2.714 Seyffert.  
 Hofsch. n. 20 14 x = +3' 17.04 Ret. 6.340  
 Ferlb. n. 20 10 x = +5' 43.32 Ret. 0.91  
 Merid. die 12<sup>a</sup> ad hor. Festbau. 23<sup>a</sup> 54' 16" 36

+8.3 - 15.1  
 14.0 9.6

a = +0.1037  
 b = -0.092

- $\alpha$  Virginis - 4' 16.58
- $\eta$  Ursae maj. 16.43
- $\alpha$  Bootis 16.54
- $\alpha$  Librae 16.64
- $\alpha^2$  Librae 16.55
- $\beta$  Ursae min. 17.22 (exclusa)
- $\alpha$  Serpent. 16.51

Seyffert. 14 25 - 4' 16.542 Accel. 2.654.  
 Hofsch. 19 7 + 3 23.03 Ret. 6.285  
 Ferlb. 19 11 + 5 44.87 Ret. 1.617  
 Merid. 12<sup>a</sup> ad Hofsch. 23<sup>a</sup> 56' 35" 71

44.1
57.45
2.39
27.28
62.47
27.18
27.18
20.213
40.29

F V S b c e i II

Januar.	17	22	26	30	34	h
$\alpha$ Urs. min.	59.5	6.8	18.7	26.0	38.0	6
$\alpha$ Can. maj.	19.4	35.2	50.5	6.1	21.3	43
$\alpha$ Gemin.	39.1	56.5	13.9	31.6	49.2	29
$\alpha$ Can. min.	3.2	28.0	42.9	57.6	12.7	36
$\beta$ Gemin.	48.1	4.3	21.5	38.3	55.0	40
$\alpha$ Ursa min.	26.0	44.0	4.0	32.7	53.0	13
$\alpha$ Virginis	2.4	17.6	33.1	47.6	3.2	22
$\eta$ Ursa maj.	9.5	32.3	55.7	19.1	42.6	46
$\alpha$ Bootis	54.4	49.9	5.7	21.6	37.6	13
$\alpha$ Librae	—	22.5	37.7	53.2	8.4	47
$\alpha$ Librae	18.4	33.4	49.5	4.7	20.0	47
$\alpha$ Coronae	—	20.4	37.6	54.3	10.6	33
$\alpha$ Serpentis	53.1	8.2	23.4	38.3	41	15
18 $\alpha$ Ursa min.	1.0	21.0	—	—	—	—

Occultatio 13<sup>a</sup> Jan. Ingre pour: 8<sup>h</sup> 20' 56" 25 in tempore horologii Seyffertiani.

+14.4 - 7.5  
3.0 18.5  
 $\alpha$  Ursa min. inf. et  $\alpha$  Canis maj.  $a = +0.004$  Med. - 0.094  
 $\alpha$  Ursa min. inf. et  $\alpha$  Virginis  $a = -0.192$   
 $b = -0.228$

- $\alpha$  Canis maj. — 4' 29" 01
- $\alpha$  Gemin. — 29.08
- $\alpha$  Canis min. — 29.05
- $\beta$  Geminor. — 28.94
- $\alpha$  Virginis — 29.10
- $\eta$  Ursa maj. — 29.10
- $\alpha$  Bootis — 29.14
- $\alpha$  Librae — 29.20
- $\alpha$  Librae — 29.22
- $\alpha$  Coronae bor. — 29.26
- $\alpha$  Serpentis — 29.28

Seyffert 11<sup>h</sup> 58'  $x = -4' 29" 127$  Accel. 2" 569  
Köpek 19 46  $x = +3' 54" 71$  Rel. 6.302  
Perlb. 19 57  $x = +5' 50.68$  Rel. 1.149  
Merid die 18<sup>a</sup> Jan. ad Horol. Köpek:  
23<sup>h</sup> 56' 4" 18.

20 21  
40.79

27 10.0 axe converso.

Febr.	$\delta$ I	$\delta$ II	$\delta$ III	$\delta$ IV	$\delta$ V	h
$\alpha$ Tauri	51.8	6.9	22.3	38.1	53.2	32
$\beta$ Tauri	15.5	32.4	49.5	6.3	23.1	22
$\alpha$ Orionis	38.2	53.5	8.4	29.2	38.4	52
$\alpha$ Ursa min.	15.2	21.0	30.0	40.7	49.5	6
$\alpha$ Canis maj.	25.2	40.3	56.0	11.2	26.9	44

+17.5 - 11.5  $a = +1.075$   
+23.9 - 5.2  $b = +0.943$   
 $\alpha$  Tauri — 5' 35" 53  
 $\beta$  Tauri — 35.40  
 $\alpha$  Orion. — 35.86  
 $\alpha$  Can. maj. — 35.82  
 $\alpha$  Gemin. — 36.11  
 $\alpha$  Can. min. — 35.54  
 $\beta$  Gemin. — 36.23  
Seyffert —  $b = 28.3$   $x = -5' 35" 759$   
Accel. 2" 927

31° 23'

Vertatur

Febr. 9. $\alpha$ Geminorum	19.0	37.0	48.1	2.6	17.8	37	7	Kofoek 8 <sup>h</sup> 24' x = +6' 15" 49 Ret. 6" 251
$\alpha$ Canis min.	19.0	37.0	48.1	2.6	17.8	37	7	Fertbauer 8 26' x = +5' 55" 22 Ret. 0" 203
$\beta$ Gemin.	52.4	9.5	26.2	43.3	0.1	112	7	Meridies die 10 <sup>a</sup> 23 <sup>h</sup> 53' 40" 45 *
12 $\alpha$ Ursa min.	26.5	50.0	12.5	42.0	55.7		1	
14. $\alpha$ Tauri	17.4	33.3	48.5	4.1	19.6	33	4	+27.0 - 7.0 } a = $\alpha$ Tauri - 5' 45" 90
$\alpha$ Aurig.	20.1	40.9	2.5	24.0	-	11	5	16.3 17.3 } b = +0.725 $\alpha$ Aurigae 46' 06
$\beta$ Orionis	22.5	37.6	52.3	8.0	23.1	13	5	$\beta$ Orionis 46.31
$\alpha$ Orionis	-	-	34.3	49.2	4.0	19.3	53' 5 <sup>h</sup>	$\alpha$ Orionis 46.67
$\delta$ Urs min.	24.7	33.7	45.0	53.7	23.3		6	$\alpha$ Can. maj. 46.43
$\alpha$ Canis maj.	35.5	51.2	6.3	22.3	37.3	44	6	Die 11 <sup>a</sup> Febr. 5 <sup>h</sup> 50' 7" x = -5' 46" 274 Accel. 2" 120
1 <sup>a</sup> Mart. $\alpha$ Ursa min.	4.5	12.0	22.0	33.0	39.3		6	" " Kofoek 8 50' x = +6' 49.67 Ret. 6" 812
$\alpha$ Can. maj.	12.5	27.9	43.2	54.8	14.4	45	6	Fertb. 8 49' x = +5' 58.88 Ret. 0.730
$\alpha$ Gemin.	32.5	50.2	7.4	25.3	42.7	31	7	Merid. die 15 <sup>a</sup> 23 <sup>h</sup> 53' 6" 00 *
$\alpha$ Can. min.	6.6	21.2	36.3	51.1	5.2	38	7	Object. ver. $\alpha$ Can. maj. - 6' 24" 13
$\beta$ Gemin.	40.4	58.3	14.5	31.9	38.3	42	7	$\alpha$ Gemin. 24.32
20 <sup>a</sup> Mart. $\alpha$ Tauri	18.2	33.6	49.0	4.6	20.0	34	4	$\alpha$ Can. min. 23.97
$\alpha$ Aurigae	20.3	41.5	2.7	24.2	45.5	12	5	$\beta$ Gemin. 23.81
$\beta$ Tauri	43.7	0.5	17.4	34.3	51.2	23	5	Febr. 7 <sup>h</sup> 24' x = -6' 24" 575 Accel. 2" 540

Die 21<sup>a</sup> Martii meridie index minutorum horologii  
 Kofoekiani 11<sup>h</sup> 11<sup>m</sup> 11<sup>s</sup> promolus.  
 (minutis)

F W P B L e i H

15.47

1845	21	25	30	34	1	2
Apr. 1. $\delta$ Musmin.	46.5	57.3	8.5	19.0	18	+35.4
$\alpha$ Lyrae	56.4	15.0	34.3	53.2	12.3	40 18
$\alpha$ Aquilae	56.3	51.0	6.1	21.2	36.2	51 19
$\beta$ Aquilae	—	—	34.8	49.7	4.8	56 19
$\alpha$ Cygni	19.4	40.6	1.1	22.5	13.0	44 20
3 $\delta$ Musae min	54.5	4.5	15.0	29.5	—	— 18
$\alpha$ Lyrae	0.4	19.3	34.6	57.4	16.3	40 18

$-(1.0) a = +0.513$   $\alpha$  Lyrae --  $7^{\circ} 51' 94''$   
 $24.9 b = +0.213$   $\alpha$  Aquilae 52.18  
 $\beta$  Aquilae 52.05  
 $\alpha$  Cygni 52.25  


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 Sayffert. 19<sup>h</sup> 41'  $\alpha = -7^{\circ} 52' 105''$  Accel.  $2'' 778$   
 Kollsch 20 16<sup>h</sup>  $\alpha = +1^{\circ} 31.09$  Red.  $7'' 315$   
 Feilbauer 20 18<sup>h</sup>  $\alpha = +6^{\circ} 59.66$  Red.  $1.320$   
 Merid. 22 23<sup>h</sup> 58' 27.77

F N S B L e 1 11

39° 0'  
 39 6  
 1.32

1845.  
I

April

3. $\gamma$ Aquilae	33.8	42.3	50.5	58.8	7.4	47	19
$\alpha$ Aquilae	53.7	2.0	10.3	18.4	27.3	51	19
4 Solis L. I	4.6	12.9	21.0	28.8	37.5	0	1
$\delta$ L. II	—	22.4	30.6	38.7	47.3	2	
$\alpha$ Mesae min.	—	6 <sup>7.5</sup>	11 <sup>10.6</sup>	16 <sup>18.0</sup>	21 <sup>25.1</sup>	47.2	1
	—	5 <sup>17.0</sup>	17 <sup>14.0</sup>	19 <sup>29.5</sup>			

Solis limbi non bene determinati.

$\gamma$ Mercurii I	50.6	59.6	7.5	16.0	25.0	49	1
$\alpha$ Arietis	5.8	14.7	23.4	32.5	41.7	6	2
$\alpha$ Tauri	42.4	51.0	59.4	7.7	17.1	35	4
$\alpha$ Aurigae	49.6	1.5	12.6	21.6	—	13	5
$\beta$ Orionis	—	—	—	10.5	19.5	15	5
$\beta$ Tauri	9.3	18.6	27.8	37.0	46.8	24	5
$\alpha$ Orionis	28.3	36.7	44.6	52.7	1.5	55	5
5. $\alpha$ Mesae min.	58.8	6 <sup>7.5</sup>	11 <sup>13.0</sup>	16 <sup>20.5</sup>	21 <sup>28.0</sup>	48.0	1
	3 <sup>11.0</sup>	5 <sup>17.5</sup>	17 <sup>16.0</sup>	19 <sup>32.7</sup>			

Ax. - 0.8. + 29.1 - 27.4  
27.2 29.1

41° 13' 35"	31	34	38	64.85	22.1	25.0		
19 0 3 5 6 9	64.80	22.2	24.7	27.300	+ 4.4	+ 2.86		
12 0 5 2 4 6	64.59	22.2	23.1	27.276	+ 6.0	+ 11.20	0' 54" limb. du puel.	
319 0 14 14 16 15	64.50	22.7	22.5	27.278	+ 6.2	+ 11.04		
319 0 10 11 14 13	64.40	22.5	22.8				6' 31"	
13 12 16 15	64.40	22.3	21.9				8 32	
15 14 16 15	64.48	22.5	22.7				13 9	
36 1 42 42 43 47	64.60	22.0	22.4	27.270	+ 6.5	+ 11.26		Centz
24 44 32 31 32 35	64.57	22.0	22.1	27.268	+ 6.7	+ 11.78		
31.16. 32 32 33 36	64.74	21.1	21.2	27.229	+ 8.0	+ 11.62		
1. 38. 26 28 29 32	64.57	22.0	20.8					
55. 50. 39 38 39 38	64.78	20.9	22.0	27.221	+ 7.7	+ 11.28.		
19. 0. 3 4 6 6	64.73	21.7	20.9			+ 11.06		
40. 5. 38 38 38 40	64.88	20.6	22.1	27.222	+ 7.7			
319 0' 14 13 16 16	64.49	23.2	21.9	27.541	+ 6.4	+ 4.62		
10" 10 12 10	64.48	22.9	22.3				0 50	
12 14 15 15	64.50	23.0	22.1				5 35	
14 14 16 16	64.50	23.1	22.0				7 56	

5. Apr. d. Ur. min. 25<sup>h</sup> 26.8 27<sup>h</sup> 52.0 28<sup>h</sup> 9.6 29<sup>h</sup> 21.3 30<sup>h</sup> 42.0  
 26<sup>h</sup> 27<sup>h</sup> 27.0 27.5 — 46.0 43.0

a Can. mj. 2.4 11.0 19.6 27.8 36.7 46.6  
 a Gem. pr. 23.7 33.3 42.8

59.  
 a Can. min 55.8 3.7 11.8 20.0 28.7 39.7  
 a Gem. min 32.0 41.6 50.5 59.9 9.6 14.4 7  
 a Urs. min. 39.0 48.5 31.0 7.0 57.0 8  
 13 37.5 35.0 — 13.5 2.5

6 a Ulf. minor. 1 1.0 6 11.0 11 14.0 16 22.0 21 50.5  
 3 14.5 5 22.0 17 19.5 19 34.0

S V S B L e 1 11

	0	1	2	1	6h.90	21.1	23.4	27.486	+6.4	+4.86	
14.5.0	1	2	2		6h.90	21.3	23.2				26.52
	2	2	3	2	6h.80	21.9	23.1				34.8
3.57.	27	28	30	29	6h.60	21.9	23.0			+4.62	
5.15.	6	7	7	8	6h.85	21.0	24.0	27.483	6.1	+3.60	
41.50.	58	57	55	56	6h.88	21.3	23.7				
19.4.	41	40	41	43	6h.98	21.4	23.7			+3.40	
216°	20	4	4	7	5	65.00	21.0	24.1	27.481	5.9	+2.58
	8	10	12	11		65.00	21.2	24.0			11' 18"
	8	10	11	10		65.00	21.2	24.0			13' 37"
	8	8	10	10		65.00	21.2	24.0			15' 46"
	7	6	8	7		65.00	21.1	24.1			19' 39"
319	0	15	16	16	16	64.30	23.1	21.6	27.520	+6.5	+6.72
	9	10	12	10		64.40	22.3	22.7			1 1
	10	10	13	11		64.35	22.8	22.2			3 14
	12	14	15	15		64.30	23.1	21.8			5' 54
	13	15	15	15		64.30	23.1	21.7			7 40

$\beta$  Auriga 53.6 5.6 17.3 25.7 — 13 5  $\Delta = 1.0 + 28.7 - 27.3$   
 27.1 28.9

$\beta$  Orionis — 58.7 7.0 70.5 29.9 15 5

$\beta$  Tauri 13.9 22.7 21.9 41.2 51.0 24 5

$\alpha$  Orionis 32.6 40.8 48.8 57.2 5.7 55 5

$\delta$  U. min 29.0 55.0 11.7 26.3 44.5 6

25 27 30 32 34  
 26 27 32 33  
 30.3 29.6 49.0 46.0

$\alpha$  Can. maj 4.4 12.8 21.3 29.8 38.8 16 6

Apr  $\beta$  U. min 4.0 13 19.0 27.5 53.5 1

1 4.0 13 19.0 27.5 53.5  
 3 16.6 5 27.0 17 24.0 19 38.0

April 21,  $\delta$  U. min 26 28 30 33 35  
 18.0 35.4 50.3 8.2 33.0 18  
 27 28 33 34  
 15.6 12.0 32.0 32.8

$\alpha$  Lyrae 50.5 1.5 11.4 21.5 32.4 40 18

$\gamma$  Aquila 6.7 15.0 23.0 31.5 40.4 47 19

$\alpha$  Aquila 26.7 34.9 43.0 51.5 0.0 52 19

$\beta$  Aquila 55.3 9.7 11.8 20.2 28.5 56 19

38.30 31 31 34 64.50 21.9 22.2

5.50 35 34 35 35 64.78 20.9 23.2 27.450 + 6.9 + 6.68

19.0 5 6 7 6 64.79 21.1 23.0 + 6.64

10.5 38 35 38 38 64.80 20.9 23.5 27.440 + 6.7 + 6.46

5 1 0 2 1 64.65 21.8 22.6 27.426 + 6.7 + 6.00

311.4.58 59 61 60 64.50 22.4 21.9 25.15

5.0 0 2 1 64.53 22.2 22.1 27.50

63.57.28 29 30 30 64.60 21.6 22.8 15.68

319° 0' 15 16 16 15 23.1 20.7 27.149 + 7.3 + 12.00

7 10 11 8 64.33 22.6 21.4 0' 46

9 11 14 11 64.30 22.9 21.1 3 0

12 14 15 14 64.30 23.1 20.7 6 13

12 15 15 15 64.30 23.1 20.7 8 10

15 46 47 51 64.80 21.1 18.2

32.53.45 46 46 50 64.90 20.9 19.8 27.52

8.50.2 1 2 5 65.10 20.1 20.5 27.448 + 9.6 + 6.80

37.13.32 34 34 35 65.21 20.0 20.9

39.0. 1 0 2 6 65.24 20.0 20.9

41.26.20 20 20 21 65.26 20.0 20.0 27.451 + 9.5 + 7.20



Ap.							
27	$\alpha$ Can min	—	38.7	16.7	51.9	3.7	40 7
	$\beta$ Geming	7.3	16.4	25.6	34.8	14.7	44 7
28	$\alpha$ Androm.	40.6	19.8	59.2	8.5	18.5	9 0
	$\gamma$ Pegasi.	34.7	13.5	51.4	59.8	8.7	14 0
	$\alpha$ Leporp.	51.3	6.4	20.4	34.7	50.2	40 0
	$\alpha$ Uro. min.	38.2	50.0	59.0	4.0	27.5	1
		50.7	1.5	—	56.0	13.0	

$\alpha$  Uro. min. trem.  
\*? 3'

	$\alpha$ Antelias						
	$\beta$ Antelias II	45.2	—	2.5	11.4	20.6	7 2
	$\alpha$ Arielis						
	Veneris L. II	30.5	39.2	47.0	55.4	5.6	19 2
29	Solis L. I	24.9	33.3	41.8	49.9	59.0	33 2
	L. II	36.6	45.5	53.4	2.8	11.5	36
	$\alpha$ Aurige	27.8	39.7	—	—	—	13 5'
	$\beta$ Fauri.	17.8	57.1	6.3	15.4	25.5	25 5'
	$\alpha$ Orionis	6.9	14.9	23.0	31.4	40.4	55 5

+ 22.0 - 22.4  
22.3 21.8

37		41.50	55	56	55	58	64.88	19.8	16.8				
38		19.4	38	36	38	40	64.62	20.3	16.1			+15.82	
		19.14	10	12	11	13	64.88	20.0	18.0				
		33.8	36	36	38	40	64.66	20.5	17.2	27.468	+12.4	+14.08	
		351.50	32	33	32	34	64.68	20.6	17.0			+14.60	
		19	21	21	21	21	64.70	20.0	16.2	27.477	+12.8	+15.20	
		319.0	15	15	15	15	64.88	20.1	17.1				1.20
		17	17	18	18	18	64.78	20.6	16.7				3.15
		19	20	19	20	20	64.75	20.7	16.6				5.41
		20	20	20	20	20	64.72	20.9	16.3				8.43
		24	44	32	31	32	36	65.16	18.7	18.4			+16.00
		35	25	57	58	58	60	64.68	20.5	16.5	27.469	+13.0	+16.20
		33	14	34	33	33	36	64.60	20.1	16.7	27.467	+13.1	+16.14
													34 15 L.A
		1.38	30	31	30	34	65.15	18.9	17.6				+17.60
		19.0	5	6	6	6	65.10	18.9	17.4	27.455	+13.5	+17.80	
		40	5	36	33	35	39	64.90	19.4	16.8	27.456	+13.5	+16.80

1. mai	$\alpha$ Hydra	19.8	24.4	36.4	44.7	53.6	28	9
	$\alpha$ Leonis	22.7	36.9	43.3	52.7	2.5	9	10
	$\beta$ Leonis	31.5	39.7	47.9	56.6	5.7	50	11
	$\gamma$ Urs. maj.	50.5	4.5	18.6	32.4	47.6	54.	11
	$\alpha$ Regasi	23.6	32.0	40.3	48.6	57.7	5	23
	$\alpha$ Androm.	—	51.4	0.7	9.8	19.8	9	0
	$\alpha$ Ursae min.	1 43.0	6 52.0	11 54.5	17 4.0	22 31.0		1
		3 54.4	6 3.0	—	17 57.5	20 12.5		

$\alpha$  - 2.0  
+ 22.8 - 23.3  
23.3 22.7

5. mai Initium Solis eclipsioj (inter nubes):  
1<sup>h</sup> 30' 34.93 s. hor. Seyff.

S. 1<sup>h</sup> 48' 5" S. 1 46 5.5  
N. 22 38 35.5 S. 22 33 35.0  
Tempore finis Sol nubibus lectus.

7. v	$\beta$ Leonis	35.8	44.3	52.3	1.0	9.7	50	11
	$\beta$ Virginis	4.6	12.7	20.8	29.1	37.6	51	11
	$\gamma$ Urs. maj.	54.8	9.1	22.5	36.9	51.6	54	11
	$\alpha$ Ursae min.	15.5	6 43.0	11 53.5	16 56.0	22 10.0		13
		36.0	5 48.7	—	17 5.8	19 55.0		

Observatio laevidas Mercurii ante discum Solis die 8<sup>ta</sup> Maii  
per Reg. Alberti in tempore horologii Liebreriani:  
Ingressus Contactus interior: 8<sup>h</sup> 55' 48.0 m. i. c. m. f. s. 10<sup>ta</sup> tarde.  
" " Contactus exterior: 8<sup>h</sup> 59' 25.5  
limbi Solis undulantes.  
Seyff. 8<sup>h</sup> 57' 10"  
Liebr. 9<sup>h</sup> 4' 7.25  
Einde:  
Ingr. Cont. int. 8<sup>h</sup> 48' 50.75 } temp. Seyffert.  
" Cont. ext. 8<sup>h</sup> 52' 28.25 }

$\alpha$  Virginis 29.8 38.0 46.3 54.7 3.4 26 13

25.27	2	59	2	2	65.30	18.2	19.1	27.571	12.4	+11.60.	
34	44	49	48	50	52.65.24	19.0	18.8			+11.28	
352	35	16	20	21	20	64.88	20.7	17.2	27.586	12.0	11.24
33	5	36	35	35	38	65.27	18.9	19.5	27.532	11.7	12.80
19	14	10	9	8	12	64.78	20.7	17.4	27.530	12.1	15.26
319	0	19	19	19	20	64.72	21.2	16.1	27.530	12.5	15.98
	10	12	11	13		64.80	20.9	16.9			0 44
	15	16	16	17		64.74	21.3	16.1			3 26
	18	18	20	20		64.72	21.3	16.1			6 21
	19	19	20	20		64.74	21.2	16.1			8 23
44.	49.	38	36	38	40	64.62	21.4	19.2			
352.	55.	18	20	21	22	64.90	21.3	19.3	27.209	9.7	+6.62
	26	25	26	27		65.18	20.1	20.8	27.228	9.7	+6.60
315.	58.	54	33	34	36	65.13	20.1	20.6			59.49
	30	29	30	3		64.15	20.0	20.6			3.36
	28	28	28	29		65.17	20.1	20.8			5 49
	27	26	27	28		65.18	20.1	20.8			8 31
57	48	26	24	25	28	64.70	21.3	19.3			+6.28

Maii 7. $\alpha$ Ursa maj.	44.3	57.1	9.5	22.3	35.7	50	13	
$\alpha$ Bootis	2.7	11.0	19.6	28.3	37.5	17	14	
19. $\alpha$ Urs. maj.	27.5	44.9	2.6	20.3	38.6	3	11	+24.1 - 25.9 Ar. - 2.0.
$\beta$ Leonis	47.8	56.5	4.8	13.3	22.1	50	11	25.1 24.7
$\beta$ Virginis	16.7	25.2	33.0	41.4	49.9	51	11	
$\gamma$ Urs. maj.	6.6	21.4	34.7	49.2	4.0	55	11	
$\alpha$ Urs. min.	35.0	8.5	9.5	13.0	23.0		13	
	53.0	5.0	-	4.5	16.5			

$\alpha$ Virginis	41.7	50.9	58.5	6.8	15.6	26	13	
$\eta$ Urs. maj.	56.5	9.6	21.9	34.6	48.0	50	13	
Luna I.	53.5	2.2	10.7	19.5	28.8	12	14	
$\alpha$ Bootis	14.6	23.6	32.0	40.6	49.6	17	14	
$\alpha$ Ursa min.	19.0	20.0	axe directo					+24.9 - 26.5 26.2 - 25.0
	21.5	30.0	17	14.8	25.5			
$\alpha$ Urs. min. Circulo ad Occidentem	18	2.8	12.0					+25.9 - 25.1 24.5 26.1

Ex his observationibus sequitur  $c = -0.179$  Circ. ad Orient.  
 $+0.151$  Circ. ad Occid.  
 Error illuminationis die 20. Maii ore signi meridis  
 naly correctus.

F W S h L e i "

57° 23'	20	20	22	24	64.82	21.0	19.8		+6.92
27 28	51	47	50	52	65.12	20.0	20.9	27.237	9.6 +6.08
44.53	32	35	34	34	64.78	21.3	19.5	27.090	10.2 + 8.68
4	49	40	40	43	42	65.02	20.2	19.9	+7.82
2	55	12	15	17	18	64.70	21.9	18.5	27.108 +10.1 +7.68
	22	21	22	23		65.08	20.1	20.0	27.129 +10.2 +7.28
16	58	25	27	25	28	65.00	20.4	19.9	0' 38"
	24	25	26	26		65.08	20.1	20.0	3. 28
	24	22	24	25		65.10	20.0	20.1	5. 42
	22	22	23	24		65.10	19.9	20.2	9. 14
7.18	28	27	28	30		65.00	20.3	20.0	+7.26
57.25	16	17	20	20		64.90	21.0	19.6	-6.88
2	46	39	37	39	40	65.00	20.8	19.9	27.133 +10.0 +6.48 13' 6" L.B.
7	28	42	42	40	45	64.80	21.4	19.0	+6.48

May 29.  $\alpha$  Andromedae 13.8 23.7 32.7 42.1 51.4 9 0 Circulus ad Occidentem.

$\gamma$  Pegasi — 16.7 23.4 33.6 42.0 14 0

31.  $\alpha$  Androm. 16.6 26.5 35.9 44.9 54.4 9 0

$\gamma$  Pegasi 10.7 19.7 28.3 36.6 44.8 11 0

$\alpha$  Cassiopej. 27.7 43.0 57.7 11.6 26.5 41 0

altitudo min. 2' 3" 5 7 35.0 12 42.3 17 43.5 22 53.0 t + 24.5 - 23.2  
4 23.0 6 37.7 18 43.5 20 41.4 23.2 24.2

$\alpha$  Arietis 20.8 30.4 39.1 47.7 56.7 7 + 2

$\alpha$  Ceti 0.0 14.7 22.8 31.0 39.3 3 + 3

Jun 1.  $\alpha$  Urs. maj. 13.4 1.9 19.7 27.2 35.0 3 11

$\beta$  Leonis 4.9 14.0 22.6 30.7 39.6 50 11

$\beta$  Virginis 34.0 42.8 51.1 58.8 7.2 52 11

$\gamma$  Urs. maj. 23.5 38.4 52.5 6.3 20.4 55 11

$\alpha$  Androm. 17.5 27.3 36.5 45.7 54.9 9 0

$\gamma$  Pegasi 11.6 20.5 28.7 37.0 45.8 14 0

$\alpha$  Cassiopej. 28.3 43.6 58.3 12.4 27.0 41 0

F V P b c e i "

10° 44' 40 38 38 40 — 17.0 19.3 27.074 +13.5 +17.02

6° 50' 8 10 10 11 — 14.7 21.2

10. 44. 35 40 39 39 — 18.5 20.8 27.472 +11.0 +9.64

26. 50. 12 14 15 14 — 18.9 20.2

8 11 10 12 13 14 — 19.6 19.6 +10.18

58 24 21 22 21 } 20.5 18.9 27.495 +11.3 +10.96

30 27 28 30 } 19.0 20.0 f' 15

27 24 27 28 } 19.9 19.0 3 26

25 22 24 26 } 20.1 18.9 5 59

24 22 24 25 } 19.9 19.0 9 16

35 14 12 14 16 15 } 17.5 21.3 27.508 +11.5 +11.84

5 59 50 49 50 48 } 17.0 21.3 27.519 +11.9 +12.00

5. 13 14 14 15 } 18.0 19.2 27.482 +12.5 +14.00

5. 9. 8 8 12 9 } 16.4 21.0

\* 3. 32 34 35 27 } 17.9 19.6 27.488 +12.6 +12.08

0. 44. 37 40 40 40 } 18.2 20.1

6. 50. 10 12 15 13 } 17.0 21.2 27.519 +11.8 +11.82

11 11 11 14 13 } 16.9 21.5 +12.26

	2	7	12	17	22		
Jun 1. α Urs. min.	7.5	34.2	45.0	44.0	56.5	1	
	11	6		18	20		
	22.0	38.0	—	32.0	41.5		

+24.0 - 23.0  
23.1 23.5

α Arietis	21.6	30.5	39.8	48.1	57.3	7	2
α Peti.	6.5	15.5	23.5	31.7	39.8	3	3
β Androm.	18.8	28.6	37.7	47.0	56.4	9	0
γ Pegasi	12.7	21.8	30.3	38.6	46.8	14	0
α Cassio.	29.6	45.3	59.6	73.7	88.4	41	0
α Urs. min.	14.0	28.5	50.0	52.0	2.0	1	
	4	6	—	18	20		
	32.0	42.0	—	39.0	46.5		

+22.3 - 21.1  
22.0 21.4

α Arietis	22.8	32.0	41.0	49.7	58.7	7	2
α Peti.	7.7	—	24.6	32.6	41.0	3	3
β Androm.	19.5	29.4	39.2	47.3	56.8	9	0
γ Pegasi	12.6	22.4	30.8	38.9	47.4	14	0

(38.2)

	F	N	P	b	L	e	l	
	22	22	22	24	18.1	20.0	27.519	12.0 12.02
	58	29	27	29	30	17.0	21.0	0.25
	26	24	26	27	18.1	20.0		3.50
	25	24	25	26	18.6	19.4		6.0
	23	23	24	24	18.3	19.8		9.39
	5	14	15	15	16	16.8	21.1	27.510 12.1 12.64
	5	59	48	49	50	50	16.3	21.2 27.510 12.4 14.00
	44	38	40	40	41	17.8	18.6	27.450 12.5 12.88
	6	50	11	14	15	14	16.9	19.4
	11	11	13	14	15	17.0	19.1	14.48
	22	21	21	24	18.7	17.3		13.7 13.28
	58	29	26	28	29	17.0	19.0	27.454 1.6
	26	25	26	27	17.7	18.1		3.56
	24	22	25	26	18.7	17.3		6.26
	22	22	24	24	18.7	17.2		9.25
	14	10	13	14	15	16.4	19.1	27.462 13.9 16.28
	5	59	46	49	50	50	17.2	18.3 27.465 14.0 14.84
	44	38	39	41	40	17.0	18.8	+15.00
	50	11	11	11	14	17.0	18.8	27.527 14.1 +15.00

Juni

6	$\alpha$ Capcop.	30.3	45.7	0.2	14.3	28.7	41	0	
		<sup>2</sup>	<sup>4</sup>	<sup>12</sup>	<sup>17</sup>	<sup>23</sup>			
	$\alpha$ Uss. min.	16.0	43.0	54.5	50.0	4.0		1	21.9 - 20.9
		<sup>4</sup>	<sup>6</sup>		<sup>18</sup>	<sup>20</sup>			21.1 21.1
		33.0	46.0	—	41.0	51.5			

	$\alpha$ Arietis	23.5	32.8	41.7	50.5	59.5	7	2	
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	$\alpha$ Ceti	8.5	17.6	25.4	33.4	41.8	3	3	
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7.	$\alpha$ Androm.	20.8	30.4	40.0	49.0	<sup>(58.5)</sup>	9	0	
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	$\gamma$ Pegasi	14.7	23.7	32.3	40.6	49.0	14	0	
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	$\alpha$ Cassiopej.	31.8	47.3	1.7	15.7	30.6	41	0	
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	$\alpha$ Uss. min.	16.0	—	<sup>12</sup>	<sup>17</sup>	<sup>23</sup>		1	21.1 - 20.3
		<sup>4</sup>	<sup>6</sup>		<sup>18</sup>	<sup>20</sup>			20.6 20.6
		36.0	50.0	—	45.0	51.0			

8	$\alpha$ Arietis	25.2	34.4	42.1	51.9	0.8	8	2	
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	$\alpha$ Ceti	10.4	18.6	27.0	35.0	43.4	3	3	
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8.	$\alpha$ Andr.	22.5	32.2	41.4	50.6	0.1	10	0	
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	$\gamma$ Pegasi	16.6	25.6	33.8	42.0	50.7	14	0	
--	-----------------	------	------	------	------	------	----	---	--