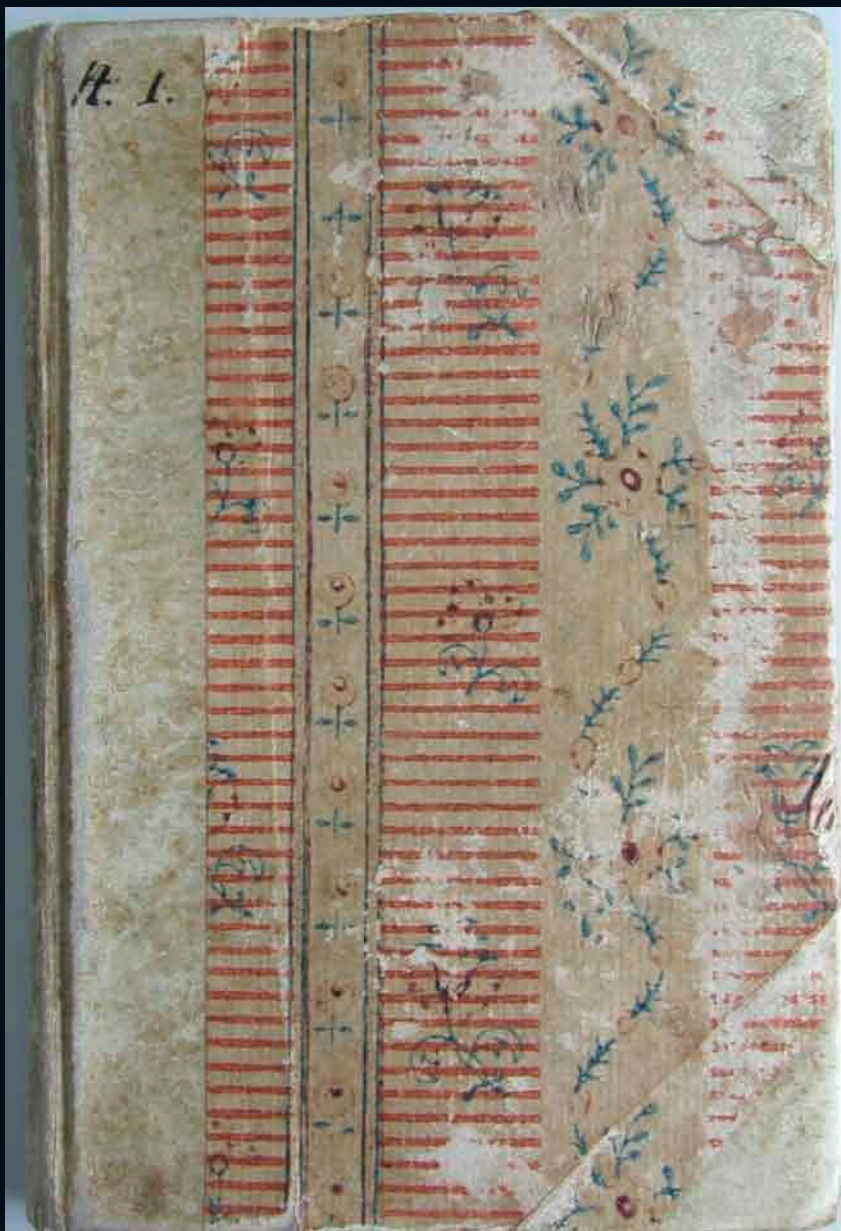




Ferdinand Rudolf Hassler

Feldbuch 1 • 1791–1800

Quelle: Schweizerisches Bundesarchiv BAR, E 27/222115

Tusche und Bleistift, gebunden, unpaginiert.

Digital aufbereitet durch das Bundesamt für Landestopografie swisstopo, 2007

Hassler verwendete die beiden Feldbücher, um direkt vor Ort seine Beobachtungen (Basismessungen (z. B. [218]–[203]), Winkelmessungen (z. B. [148]–[149]), astronomische Beobachtungen (z. B. [70]–[71]), Nivellemente (z. B. [153]–[147], barometrische Beobachtungen (z. B. [23]), Notizen (z. B. [126], etc.) schriftlich festzuhalten. Seine Bezeichnung «Journal» (Feldbuch 1, Seite [218]) unterstreicht den notizenartigen Charakter der Feldbücher, ebenso der Umstand, dass er diese von vorne und von hinten her zu beschreiben begonnen hat. Ausserdem sind jeweils einige Blätter lose eingelegt worden. Neben Hasslers eigener Handschrift sind auch jene von Gehilfen feststellbar.

Weil die beiden Feldbücher zu den ältesten Dokumenten der schweizerischen Landesvermessung gehören, schien es angezeigt, sie elektronisch aufzubereiten und als Quellen digital zur Verfügung zu stellen. Mit den pdf-Dateien wurde angestrebt, die Feldbücher möglichst originalgetreu abzubilden, so wie sie sich physisch präsentieren. Um genaue Zitierungen zu ermöglichen, wurde eine Paginierung eingefügt. Für Feldbuch 1 wurde die mit «No. 1.» beschriftete Umschlagseite als massgebend angenommen. Diese Ziffer ist vermutlich bei der Inventarisierung der von Hassler zurückgelassenen Akten im Juli 1805 (Staatsarchiv Aargau, R01. IA04 [1751–1813], Nr. 24) nach seiner Auswanderung in die USA angebracht worden. Dies hat zur Folge, dass das Feldbuch 1 mit der Messung vom 26. August 1792 beginnt und dass die bereits 1791 erfolgte Basismessung zwischen Walperswil und Sugiez (Kantone Bern und Freiburg) erst auf S. [218] beginnt. Weil sie zudem auf dem Kopf steht, muss bis zu ihrem Abschluss auf ca. Seite [203] nach vorne gezählt werden. Einklebte Blätter sind sowohl im gefalteten als auch im aufgeklappten Zustand erfasst und in der Paginierung mit den Buchstaben «a» etc. bezeichnet. Um die Datenmenge zu minimieren, wurden eine grössere Anzahl aufeinander folgender leerer Doppelseiten mit einem einzigen Platzhalter wiedergegeben, der allerdings nicht jeweils neu gescannt wurde; die leeren Seiten sind in der Paginierung berücksichtigt.

3. Juli 2007 / Martin Rickenbacher

English version see last page

Aug 26th Aug 192 *Aug 26th Aug 192*
Aug 26th Aug 192

W
 11. 45.48 ~ 105.51.12
 47.40 ~ 106.02.20
 51.10 ~ 105.05.58
 53.50 ~ 10.27
 55.15 12.50
 57.45 15.58
 59.50 17.05
 12. 1.25 18.15
 7.10 18.10
 10.00 16.50
 12.00 15.08
 14.00 12.50
 17.00 7.54
 18.40 5.58
 22.20 ~ 106.00.50
 25.50 ~ 105.51.12

1
 - 30.25 - 50.28
 32.55 39.02
 2.50 2.56
 1.18 1.18

Glenn's Aug 29
 53.20 65.25
 30 15.51 Δ 3

0.8 25 76 92. in der Frucht
 der Mithras

38.40	100.01.10
40.25	100.08.06
44.20	99.16.04
47.45	99.27.07
49.55	99.33.38
52.00	100.42.32
53.58	46.48
56.00	50.25
57.40	52.42
59.00	55.25
0.56	55.58
2.30	56.42
3.35	59.18
5.55	59.58
7.58	101.00.25
9.10	100.59.58
11.50	59.25
14.00	57.03
17.05	53.07
18.10	51.58
19.10	50.08
23.10	42.32

+ 33.38
 - 31.06
 2.32
 1.16
 18.77
 1200 24 164
 Mithras Nikolaus 12.7.55,7
 Johannes Mithras 12.7.55,7

1.49 06	83.24.55
2.54 55	84.40.22
3.59 03	46.57
4.42 3	52.12
5.7.08	55.10
6.8.55	55.54
7.10.10	56.18
8.12.12	56.58
9.14.08	56.02
10.16.12	55.10
11.28.42	40.22
latit = 47.23.26.	

10.17.58 07 108.34.37
 17.36 8 20 24 44 44
 XII 17.05 1 73 40.48
 19.50 42.50
 22.11 42.40
 24.10 43.20
 28.22 42.15
 31.00 40.48
 48.05 23
 24.02
 47.25.22

O S 30^{re} 76^{re} 92
 Zu. Trepan auf dem Rindfleisch
 Mabel mit dem Rindfleisch
 Zu. Trepan auf dem Rindfleisch - 58.11.
 Zu. Trepan auf dem Rindfleisch 20.21.
 Zu. Trepan auf dem Rindfleisch 18.140
 Zu. Trepan auf dem Rindfleisch - 97.48
 Zu. Trepan auf dem Rindfleisch - 58.20
 Zu. Trepan auf dem Rindfleisch - 51.00
 Zu. Trepan auf dem Rindfleisch - 55.02
 Zu. Trepan auf dem Rindfleisch 26.55.

[illegible]

0,92 x 62 92.

+ 33.83
- 31.03 64.86
10.09
+ 2.10
1.05

Ueber die Vergrößerung der Röhrenlunette
Lunette de Roche mit einem Feld 4" Durchmesser

Die Focal-Längen des Objectivs ist = 78. Linienlang.

Die Längen der Linette mit dem Ocul: N^o 4 ist = 73.

3 = 71,5

2 = 68.

1 = 57,5

Alte die Focal-Längen des Ocul: N^o 4 = 5.

3 = 6,5

2 = 10.

1 = 20,5

Die Größe der Vergrößerung der Linette

mit dem Ocul: N^o 4 ist = 15,6 mal

3. 12,0

2. 7,8

1. 3,8

Ueber die Vergrößerung der feldtragenden Sextanten

Die Focal-Längen des Objectivs ist = 75. Lin.

Die Focal-Längen der Röhrenlunette Vergrößerung ist

die Focal-Längen des Collectiv = 6,5

Die Linette = 3

Alte die Vergrößerung der Linette ist = 6,5

Die Linette = 75

Ocul Röhren der feldtragenden Vergrößerung

Focal-Längen des Collectiv = 10,5 Lin.

Die Linette = 2,0

Alte die Vergrößerung der Linette ist = 11,0

Die Linette der feldtragenden Linette = 75

Polizier die Vergrößerung

Die Ocul: Röhren mit feldtragender Vergrößerung

des Collectiv = 25. mal

mit = 10,2

Die Ocul: Röhren mit feldtragender Vergrößerung

des Collectiv = 15. mal

mit = 9,5.

Ueber die Vergrößerung der feldtragenden Linette

Die Linette der feldtragenden Linette ist = 15

Vocal-Längen der feldtragenden Linette ist = 371

Alte die Vergrößerung der Linette ist = 28,5 mal

Feldtragende Vergrößerung der Linette ist = 19,7

Vocal-Längen der feldtragenden Linette ist = 18,3

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

Die Linette = 21,2

07 de 18^e bre 2. pour
alt. 0. Mac

11.08.55	38.26.10	
26.15	22.08	
27.50	26.42	
29.00	32.36	
31.50	39.42.18	16.11
33.20	46.16	32.1
36.00	51.22	+34.10
39.30	57.27	-31.04
42.30	40.02.47	+34.16
46.58	107.34	+34.13
49.00	10.38	-31.12
50.58	11.26	3.1
52.45	12.36	1.30
55.04	13.37	3.02
56.40		1.31
58.20	13.14	3.6
XII	13.42	1.33
2	13.36	
3	12.39	
5	11.46	
7	10.20	
10.30	06.54	
12.25	4.44	

des obs. prec. fut la latit. d'Yverdon = 46. 46.27

drau le 27 me^e X bre 1792

Heut 0	Heut 0 am:	Err 2nd.
9 5.50	20.07.27	+ 34.04
9 9.58	19.54.13	- 31.08
12.44	20.28.12	- - -
14.54	53.49	+ 33.58
17.26	21.25.05	- 31.10
		+ 35.57
	a midi ret de la M.	4.52

11.47.57 38.08.12
57.24 38.10.37

le midi vrai selon la C. d. T. est le midi de la
montre étant qu'il y a de l'incertitude pour cet in-
tervale et 11.57.06" ainsi très près de la
dernière observation du midi de laquelle
suit la latit. de Yverdon a 47° 25. 30".

1793

Journal
 9. 55.57. 25.36.08
 + 1.23" *Result* 29.18. 26.14.13
 41.47. 27.47.24
Result 2.55.5. *hours*

alt
 5 51.58 74 1742
 326" *alt* *oph*
problem des M.
 + 33.47 33.42 8.1 41.41
 - 31.07 31.04 10.2 04.25
 2.40 2.58 12.41 37.55
 1.20 1.19 14.50 29.05.51
 6.4 54.64.46 16.46 30.05.28
 16. 13.16.11.5 *problem des M.*

XI 47.55 48.44.58 - 32.55
 50.38 47.05 + 34.06
 52.55 48.12 5.11
 55.02 47.44.52 + 34.00
 56.43 - 45 3
 59.48 48.49.12 1.30
 XII. 7.25 48.24 65
 3.36 47.48 10.15
 3.36 46.05 65.01
 7.32.9 44.32 16.15.2

II 6.24 35.48.11
 14.16 10.12
 16.06 34.54.50
 18.29 33.23.54
 20.56 32.54.56
 24.20 32.25.46
 + *alt* *alt*

22.45.5 75.28.48
 26.43 77.41.56
 32.41 114.09.50
 49.27 57.22.41 *Dist* *alt* *Meclary*
 54.38 85.58.22
 IX. 2.21 109.26.48

Result des precedentes observations
 des obs avant midi, heure vraie, à heure de la montre, donc Retard
 9.14.37 19.11.22.5 2.55.5
 apres 2.20.05.5 2.16.45.6 3.09.9
 Retard moyen = ou Retard arithmétique 3.27
 donc Midi 11.56.32 *et* *mag* *alt* *Meclary*
 et heure des obs. del. Dist. *alt* *Meclary* = 8.52.54.55
 de 4 obs. M. arithmétique Latit = 47.23.35
 - 3 - apr - = 47.23.24
 29.5

le 28. me

alt Oia Mex

50.06 C 49.59.48
53.25 C 44.33 - 31.50
55.05 40.20 + 33.08
58.6 49.17 1.18

XII 1.53 50.52 64.58
440 51.53 10.145

XIII 055 C 48.46.53 + 33.35
945 C 46.37 - 31.17

15.00 C 49 50.25 2.18

15.05 49 17 64.52

1744 C 46.20 16.15

19.13 44.33 - 32.08

22.15 39.48 + 33.07

Medix 16.25 de 506.47.22.18. m. 1.29

I 22 41 C 45.28.24

2557 C 06.40

30.00 C 43.32.38

32.51 C 43.11.24

11.29. 17.19.15

28.52 C 44.19.19

le 29

alt 0

9. 25.58 C 29.19.27

28.56 C 29 47.42

28.04 C 31.21.10

29.16 C 31.37.14

31.08 C 30.54.43

32.55 C 31.17.40

35.38 C 32.56.40

38.55 C 32.32.48

alt. 0. m.

XII. 2.52 C 50.21.38

4.42 C 50.22.18

7.38 C 50.23.48

le 30. m alt 0

9. 34.45 C 31.20.20

37.04 C 31.49.48

40.59 C 32.40.42

43.29 C 34.15.40

Fevrier

0 le 3^{me} au Morgenthal O.M.M.

11.	5032	52.20.50
	5229	53.27.48
	5428	53.29.14
	5633	53.30.14
	5821	53.31.07
	5959	—
	211	31.00
XII.	407	53.30.50
	543	53.30.18
	8.2	53.29.25
	950	27.48

11.35 U 52.20.50. Latit
 de 4 decimètres 47.15.25.4
 après 26
 longit. opposée de 5.26.8.

Le 4^{me} au Sir, a 8. h 14 m.
 thermomètre + 1,7 Reaum

hygromètre 100 + 2,0 x 1,8.

Devant la fenêtre de la chambre à l'air

8 le 6^{me} Marillon en ville a l'air Alt O.M.M.

XII.	49.55	53.35.20
	5207	53.38.22
	5342	42.07
	5516	44.52
	5918	50.37

XII.17 43 U 58.57+ Latit 47.20.40.

	5027	46.55
	5710	33.28
	5924	28.25
I.	454	51.55.38
	707	44.42
	915	33.23

4 le 14^{me} au Cabine Alt O.M.M.

6.	40.24	60.07.35	Err	Ind
	4251	—	0	31.18
	4526	11.25	0	+ 33.23
	4756	14.18	110.31	2.05
	5002	15.48	110.34	1.25
	5230	16.26	110.38	0 + 33.35
	5430	18.12	53.18	2.14
	5648	18.14		0 - 31.23
	58.34	18.04		2.14
	60.11	18.00		0 + 33.35
	61.11	17.42		0 - 31.11
7.	3.12	15.38		2.35
	5.15	14.10		0 - 30.50
	7.44	11.25		+ 33.51
	10.14	7.35		0 + 33.01

Latit. 45 Obs. 47.20.50.

alt. Oph
 2940.0 56.33.12 07.31.38
 8 435.270 51.02.45 *Mikau? Erp? 2.02*
 36.280 51.05.08 + 1.11
 38.300 50.45.57
 40.300 51.28.28
 43.460 51.00.22
 44.200 50.53.32
 46.090 50.51.07
 49.110 49.00.25

2 ft. p Long
 10.48.240 91.17.18
 51.160 91.06.23

55' - 20.20 - *Medion*
 10.59.10 51.21.42
 11.1.58 51.22.35
 409 - 23.40
 710 89.44.20
 850 89.32.14
 12.00 15.19.55
 14.09 14.41.20
 17.21 51.26.27

Decl 0 le 14 a. Meridien 12.45.08
 - 15 - 12.24.27

le 15 me au Cabinet alt. Oph.
 3. 28.540 35.35.25
 32.340 35.34.50
 34.160 36.00.35
 36.260 35.27.28
 38.300 35.57.38
 39.510 37.22.18

avec le simple tuyau.
 hauteur de la Botte 10.14.30
 - - - - - 11.36 - *aux meridien*
 - - - - - 8.18 - *Erp? Erp? 2.02*
 1.05 1.35
 0.57 1.25

5.06.000 54.16.40
 7.57.510 32.25
 9.260 50.41.50
 11.450 54.00.08
 13.050 54.17.25
 15.070 55.31.25
 16.020 55.42.48
 17.450 54.47.00
 19.050 54.57.57
 20.330 56.12.55

avec le tuyau
 et Goenpart 92.15 vers b. Merid.
 - - - - - 90.26
 - - - - - 91.23

alt 0 a.m.		mid
6.04.20	60 05.58	6. 37.31
6 11	60 11.40	- 29
7 50	59 11.48	- 32.5
10 05	59 17.52	- 54
16 08	59 21.38	- 38.5
19 03	59 25.50	- 36
24 36	29.45	- 41
1 040	33.52	- 53.5
1 8 20	36.50	- 44.5
2 2 02	43.30	- 45
2 4 46	47.13	38.06
2 6 00	48.40	44.18
2 6 57	49.25	6. 37.40
2 8 00	50.39	
2 8 43	51.35	
2 9 54	52.28	
3 1 07	53.12	
3 3 14	53.53	
3 4 24	54.50	
3 6 05	55.58	
3 7 57	56.04	
3 9 53	54.05	
4 2 52	53.53	
4 4 22	53.12	
4 6 44	51.35	
4 7 48	50.09	
4 8 50	49.25	

Latit de 8 Obs de 12
47.23.48

50.56	47.13	
53 10	43 30	
56.45	36.50	
58.33	33.43	
60 23	29.43	
63 54	21.38	
7. 1 3	44	62.24.22
15 19	62.51.12	8. 23.56
16 52	62.18.22	15.16
19 19	62.53.50	for von
22 17	62.55.50	23.10
24 32	62.56.10	5.47
26 21	62.57.20	
28.59	60.50.54	22.19.14
30.21	67.20.50	7.26.24
33 18	68.07.50	2.98
36 17	57.07.14	20.51.42
38 06	56.56.40	23.59
39 36	56.47.48	

3. 40.35	36.48.40	
43.29	35.54.40	
51.29	36.37.30	
54.46	35.38.25	
57.54	32.39.40	borderline
400.19	32.33.20	5.20
2.39	32.32.25	1.20
4.28	32.31.16	
8.44	27.47.10	20.63
11.19	26.57.44	10.01
16.14	29.00.20	24.44.54
18.49	28.11.25	22.27
		17.11.45
		8.25.32
		15.06
		17.24

Boite 16. Au cabinet	80.00	10	payement
Boite 17. Au cabinet	90.17	=	payement
Elev. de - -	9.01	20	payement
O el - -	50.47	-	XII ¹⁶ / ₄ f
- 24	58.55	-	
Sous-Boite et chapeau	20.00		

Dec 17^{me} Au Cabinet.
alt Op h

g. 41.48 U 44.47.38
42.15 U 45.05.45
43.30 U 46.26.40
44.36 U 45.40.25
45.37 U 46.52.45
46.34 U 47.04.20
47.47 U 46.14.20
48.37 U 46.28.40
50.32 U 47.52.40
51.30 U 48.04.30
52.50 U 47.15.40
43.49 U 47.47.25
all good.

71.44.07	61.59.20
45.29	62.02.20
48.28	62.04.57
52.13	62.07.18
49.54	10.37
62.10	14.24
53.49	18.52
55.14	17.37
56.58	19.38
59.37	22.19
12.04	22.52

2.070	23.43	Latit Dog Obs 47.25.24.
3.490	23.56	
5.540	24.24	
7.340	24.28	
8.570	23.58	
11.070	23.25	
12.200	22.52	
15.410	19.38	
17.430	17.37	
19.150	15.52	
22.520	10.37	
24.470	07.18	
26.070	4.57	
28.340	06.59.20	

le 18^{me} du Cabinet
alt op h. *retard Paris Mapin
plus 3/4*

1. 22.510	57.27.42	59.21.08
24.270	— 15.50	57.23.08
26.150	58.07.47	60.30
27.160	— 01.22	1. 27.24
28.110	57.53.08	6.30
29.360	— 42.22	6.55
30.820	56.20.40	
31.240	— 23.17	

p Long

1. 48.54	48.48.37.
50.54	49.27.34
52.18	49.55.22
54.00	50.02.25
55.20	52.48.50
56.24	— 37.42

2. 03.03.00 99.08.26 *bord Vaisin*

6.27	—	10.32
8.00	—	11.24
10.15	55.48.08	
11.35	56.14.38	
12.38	56.34.38	
14.54	49.19.38	
16.15	— 05.10	
17.26	48.50.55	
20.27	99.13.40	<i>bord Vais</i>
22.50	— 16.28	
24.35	— 17.14	
27.14	61.21.45	
28.36	— 48.25	
29.44	62.09.50	
31.53	47.21.48	
32.55	46.48.38	
34.08	45.29.55	
35.18	— 13.20	

alt op. h.

40.01	45.17.48	17.19.15
41.09	— 02.52	8.39.36
42.30	43.39.55	4.19.48
44.05	— 18.38	7.45
		1.56

p Long.

45.26	43.00.44
47.02	— 44.44
48.46	68.19.38
50.11	— 46.10
52.50	99.28.34
54.30	— 29.28
55.53	41.28.19
57.58	40.08.48
59.05	— 57.14
3.00.05	39.57.42
3.34	43.02.25
4.38	— 22.52.

alt *Opko*
 3.08.46.0 38.37.14 42.22.55
 10.20.0 13.48
 11.29.0 36.51.24 7.12.49
 12.40.0 33.55 72.57
 13.59.0 13.52 6.12.09
 15.42.0 52.42

Die Vorgehensweise der Lunette (siehe Zellen) für die
 4, 5, 8. und

Die Vorgehensweise der Lunette (siehe Zellen) für die
 4, 5, 8. und

May le 12^{me} au Prévoir

8.77.32 92.50.38 30.3.183
 8.39.56 94.31.12 29.23.03
 9.1.50 5.10.47 94.53.50
 5.35.0 4.37.42 53.16.13
 5.19.0 5.08.05
 8.12.1 7.04.39
 10.12.32 112.11.18
 10.14.0 55.38
 19.15.0 113.30.38
 2.10.8 52.26
 22.59 114.13.17
 24.51 50.37

alt M. p. Lat.

11.12.15 120.37.28
 15.40.0 46.41
 17.40 52.42
 19.22.0 67.92
 22.21.0 1.05.38
 24.27.0 9.25
 26.23.0 12.54
 28.43.0 16.11
 30.48.0 16.42
 32.55.0 19.22
 34.25.0 20.68
 40.20.0 18.13
 44.24.0
 46.32.0

Latit June

47.23.36.
 48.

4.46.57
 50.54
 54.33
 57.53
 210.17
 52.34

Spitzkopf	200	2	Winghuff	9. 27. 35.
"	gis	1	Winghuff	28. 01. 40.
Winghuff	-	-	14. 33. 20.	
Winghuff	-	-	37. 26. 35.	
Winghuff	-	-	83. 50. 10.	
Winghuff	-	-	28. 59. 40.	
Winghuff	-	-	24. 04. 45.	
Winghuff	-	-	33. 22. 46.	
Winghuff	-	-	29. 42. 20.	
Winghuff	-	-	12. 36. 05.	
Winghuff	-	-	4. 21. 46.	
				12. 07. 10.

Griff. fluf	91.22	—
Off. fluf	91.20	—
Off. fluf	91.39	—
Off. fluf	91.37	—
Off. fluf	92.12	30
Griff. fluf	91.37	—
Griff. fluf	90.53	30
Griff. fluf	89.27	—
Griff. fluf	88.52	—
Griff. fluf	89.40	—

1794

83 10^h 10^m 10^s = Capel 23 Observat. 43 m 10^s

11^h 10^m 10^s

50.50	122.56.40	
52.27	58.10	Cor. Incepta: 1.45
56.05	125.01.10	
57.00	1.55	Mittag 01. 21. 59. 05,
58.31	2.20	
0.00.10	2.20	Decl. 23.03. 43.7. nord
1.43	1.55	20. 15. 43, 87
3.35	0.35	
5.48	58.10	
7.15	56.40	

niguen Bonita Probref Hing & Ryllata

Dance 46.54.27. sud 5. Prob.

Stall 47.23.24. — 4 —

Andersson — — 30. — — —

Gistflus 47.25.28.

Rusthys 47.13.00. — 1 —

Uverson 46.46.27. — 1 —

Mongusfal 47.15.26. — 1 —

Paris Observatoire 48.49.55,7 La 5 Obs. different
de 54" à 57".

determination ancienne de l'Observ. 48.50.14.

par le cercle de Borda 48.50.12.

Gallier in Vignen 50.56.47. sud 1. Prob.

Capel Observ. 51.18' ... — 1 —

Gallier in Vignen — — — mult:

Monges 46.30.07,5

1795. $\text{Aug } 3^{\text{rd}}$ Morning
At O. P. K.

8. 59.36 $\nearrow$ 34.42.40
9. 149 $\cup$ 34.05.80
4.08 $\cup$ 34.45.20
5.53 $\nearrow$ 36.09.50 (41.)
9.25 $\nearrow$ 36.46.48
10.58 $\cup$ 36.00.35
12.42 $\cup$ 36.22.18
14.26 $\nearrow$ 37.47.50
16.41 $\nearrow$ 38.14.50
18.50 $\searrow$ 38.38.10

At Osh

1.42.58 $\cap$ 40.55.45
 44.56 $\cup$ 39.28.50
 46.24 $\cup$ 39.12.40

 237.25 $\cap$ 29.25.20
 40.07 $\cap$ 28.44.40

about Alt Hotel: p 4

6. 18.57	2 Onion	60. 25. 10.
21.38	—	60. 50. 15.
25.27	—	61. 49. 10.
35.48	—	63. 56. 10.

38.24	Syrus	37.28.10.
40.46	—	37.57.10
43.36	—	38.30.15
51.39	—	40.02.20

Asbury Cox Pittsboro

11 40. Polonium Lin. 311
— 42. Operate —

gleiche Zeit als die 5^{te} 20^{te} bis 2^{te} 0^{te} 2^{te} 11^{te} - 17^{te} 30^{te}

♀ 27 März alt. correct

9 40.55. ~ 71. 26.50
43.23 ~ 72.40. - 19.49 w
46.11.5 ~ 73.20 - 2.16.59
10 336 ~ 77.20 - 2.03.50
725 ~ 77.00 - 2.00.21.5
1217 ~ 78. - 1.55.30

11. 51.38 ~ 89.58.25
44.43 ~ 91.02.10 J
56.18 ~ - 08.40
3808 ~ 90.05.50
046 ~ - 7.05
220 ~ 91.12.25
430 ~ 12.38. J
550 ~ 90.04.38 ex
325 ~ - 6.38
1153 ~ 91.08.48
1310 ~ 91.07.25 d
1609 ~ 89.58.15

Latit 47. 23. 28.

♂ 31^{te} März

9.41.58 ~ 79°
46.50 ~
50.18. ~ 81.
10.02.38 ~ 83.20.20

35.59. ~ 92.03.10
3519 ~ 5.40
37.51 ~ 94.12.15
4241 ~ 17.20
40.27 ~ 18.50
4248 ~ 93.14.15
6053 ~ 13.35
8234 ~ 94.12.40
8423 ~ 16.15
5615 ~ 93.09.40
57.22 ~ 94.12.40
59.19 ~ 94.09.50
010 ~ 93.04.40

Lat 47. 23. 22.

Lat. 4725.14. 2

11.00.22	✓	90	35.53
2.04	✓	91.20	34.12
3.06	✓	91.30	35.04
4.42	✓	90.40	31.29
5.52	✓	90.50	30.20
6.50	✓	92.20	27.24
53.12	✓	96.43.20	27.24
55.14	✓	95.45.00	27.24
57.05	✓	49.50	27.24
58.53	✓	96.58.52	27.24

0.02.36	~	97.07.40	
5.26	~	96.08.04	
7.08	~	96.11.10	
9.08	~	97.17.25	
11.16	~	97.19.54	8.54
12.48	~	96.16.50	6.46
15.24	~	96.18.44	5.14
17.08	~	97.22.45	2.35
18.34	~	97.22.40	0.57
19.49	~	96.18.20	0.18.02. Milky
21.05	~	96.18.17	52
22.13	~	96.17.50	1.47
23.41	~	97.20.50	2.02
25.24	~	97.18.45	4.11
27.04	~	96.13.15	5.39
28.23	~	96.11.50	7.22
30.34	~	96.08.04	
33.22	~	97.07.40	

Lat. = 47.23.20.

035¹ April: *Hum*
all corke

10.4.54	~	82.00	-
6.00	~	81.20	-
7.59	~	81.40	-
10.27	~	83.20	-
11.58	~	83.40	-
13.46	~	83.00	-

11.41.37 ~ 97.10.00. *At 0: mer. p. lat*

45.56	~	96.14.10	
45.16	~	96.18.40	
46.50	~	97.28.20	
48.38	~	97.33.30	
50.23	~	97.38.12	
53.22	~	96.42.25	
54.49	~	96.45.40	
58.50	~	96.47.45	
58.27	~	97.56.40	
0.00.09	~	97.59.25	
1.46	~	96.57.40	
2.56	~	96.58.50	
4.59	~	98.05.20	9.00
7.14	~	98.06.40	6.56
9.20	~	97.03.45	4.40
11.06	~	97.04.30	2.35
12.46	~	98.08.20	0.49
14.24	~	98.07.45	11.55 <i>mm.</i>
15.15	~	98.07.40	0.50
			2.30
			0.20

16.41 ✓	97.02.30	11.55	4.46.
17.40 ✓	97.02.05		5.55.
18.54 ✓	97.00.50		7.00
20.05 ✓	98.03.50		
21.15 ✓	98.02.30 +		
22.57 ✓	96.55.50		
24.07 ✓	96.53.50		
25.22 ✓	97.56.10 -		
27.54 ✓	97.51.10		
31.05 ✓	96.59.20		

Latit 47.23.20

C 36th April in June
Lat:

11.38.25 ✓	97.43.50. -	
37.58 ✓	98.51.20 -	8.40
40.52 ✓	52.40	6.07
42.35 ✓	97.49.20	3.13
44.36 ✓	49.40	1.00
46.13 ✓	98.53.20	44.05
47.18 ✓	52.48	8.01
47.35 ✓	97.47.50	2.08
50.24 ✓	98.51.20 -	3.11
51.24 ✓	97.45.50 +	4.30
52.15 ✓	45.20	6.19
53.35 ✓	45.45 -	7.19

8.12

Latit 47.23.20
C 37th April in June.

29.00 ✓	98.28.50.	
30.41 ✓	99.34.50	
32.03 ✓	36.20	7.29
34.11 ✓	98.53.40	6.07
36.00 ✓	34.10	4.00
37.21 ✓	99.38.40	2.10
38.55 ✓	38.50	0.49
39.51 ✓	38.50	38.10
41.05 ✓	98.34.40	0.35
42.08 ✓	98.33.50	1.41
43.29 ✓	99.37.40	2.55
44.49 ✓	99.36.38	3.58
45.44 ✓	98.31.15	5.19
46.47 ✓	30.10	6.39
47.44 ✓	99.32.50	7.34
	98.28.10	

Latit 47.23.14.

439th April: June

Alt. C. in M:

11.31.37 ~ 99.48.20
 40.36 ~ 100.01.12
 44.14 ~ 101.08.10
 46.00 ~ 8.28
 47.25 ~ 100.04.10
 49.12 ~ 00.45
 50.49 ~ 2.40
 52.16 ~ 101.05.50
 53.25 ~ 101.05.40
 54.24 ~ 4.10
 56.00 ~ 99.57.46
 0.06.40 ~ 99.48.20

Lat: 47.25.18

0812 April in June

11.17.48 ~ 102.23.20
 21.27 ~ 1.41.40
 23.38 ~ 1.48.10
 26.50 ~ 3.00.40
 29.59 ~ 02.42
 29.32 ~ 2.2.20
 30.55 ~ 5.15
 32.45 ~ 3.12.25
 34.25 ~ 14.40
 35.30 ~ 2.11.40 +
 37.29 ~ 13.25
 38.52 ~ 3.18.50
 40.29 ~ 19.50-

2.17
 6.38
 4.55
 3.18

43.44 Milky

6.04
 2.26
 0.40

11.46.40

0.45
 2.32
 4.09
 5.36
 6.45

41.41 ~ 2.16.25

43.11 ~ 2.16.50

44.29 ~ 3.20.45

45.44 ~ 20.45

47.06 ~ 19.50

48.20 ~ 2.15.15

49.44 ~ 14.10

50.38 ~ 12.50

52.03 ~ 3.16.00

54.17 ~ 3.13.00

00.29 ~ 2.56.20

Latit: 47.25.15

4315th April in June

20.11 ~ 105.02.50

23.32 ~ 4.06.50

30.04 ~ 4.18.50

31.48 ~ 5.25.48

38.18 ~ 5.29.20

37.55 ~ 5.30.40

39.32 ~ 4.26.30

42.08 ~ 4.25.50

48.18 ~ 4.25.40

45.05 ~ 5.28.40

46.42 ~ 5.27.10

48.09 ~ 2.56.40

49.54 ~ 4.19.20

51.21 ~ 4.16.50

56.19 ~ 4.06.50

Lat: 47.25.08. (52")

2.06
 0.26
 11.45.47. Milky
 0.42
 1.57
 2.19
 4.33
 5.57
 6.51
 8.17

8.08
 4.38
 2.01
 0.24
 11.59.56. Milky
 2.12
 3.22
 5.09
 6.46

9 VI. 22 = 8. 02. 0.3
 48^u 22 = 48. 25. 42"
 24 = 24. 24. 2
 48 = 48. 04. 40
 24 Reg = 24. 00. 50 Wp

4 VI ~ gbre go in from

Atto in Mer

57.18 ~ 78.12.38

0.08 ~ - 2.45

1.59 ~ 79.16.40

2.17 ~ - 16.15

529 ~ 79.15.10

codat = 42.38.20

gbre 84.48 in from

10.1.13 ~ 66.32.40

4.23 ~ 67.02.40

8.11 ~ 66.14.20

07.46 ~ - 29.50

9.53 ~ - 49.10

11.13 ~ 68.05.40

13.48 ~ 68.28.40

15.07 ~ - 40.20

16.30 ~ - 51.40

19.00 ~ 68.07.10

20.00 ~ - 15.40

21.00 ~ - 24.10

45.25

10.17.34.

12
69.58
10.40

24
40.59
10.06.46

30
5.14.20
66.52.23

67. 168.00
28.

30
107.40
68. 27.57

74/1 - 6bre ga in finem

Alt 0 in Mer

57.18 - 78.12.38

0.08 - 12.45

VIII. 19. 48 = 9. 48. 0

V. 39. 47.5 = 7. 14

V. 40 = 7. 14. 12.5

VI. 40 = 7. 14. 12

VIII. 20 = 9. 48. 14.4

VIII. 20 = 9. 48. 14.4

33' 20" = 33' 25" 19"

33' 3" = 33' 26"

30' = 30' 08"

30' = 30' 25"

33' 20" = 33' 25" 19"

33' = 33' 5" 52

30' = 30' 5" 29

30' = 30' 5" 5

10' = 10' 1' 8

20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

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20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

20' = 20' 1' 37

10.17.34

45.25

Observations pour la latitude de Morques faites au Port le 1795
 Correction de Long: entre Portlet et Morques supposée 0,02 d'arc de longitude $\delta = 7.12''$
 le 2 May Double hauteur pres midi: = 28.48''

Heure	Double hauteur pres midi	
11.52.52	118.22.50	
54.54	24.40	7.00
56.50	20.08	5.20
58.02	117.22.58	4.52
59.25	25.40	2.34
41.58	24.20	1.16
43.52	118.27.40	41.54 Midi
45.12	27.15	1.38
46.50	26.10	4.08
49.00	24.10	5.02
51.11	117.16.20	7.06
52.27	14.45	9.17
53.39	12.15	
55.09	09.10	
57.04	118.08.20	
58.27	05.10	
60.40	117.58.40	

Latitude (de gobs) = $46^{\circ}30'00''$

Le 4 May

Heure	Double hauteur pres midi	
11.52.17	118.18.25	
53.38	21.50	
54.45	119.28.20	
56.43	30.20	
57.04	31.45	
59.50	118.31.20	7.56
0.00 41.	31.50	5.50
1.22	32.00	4.59
2.07	119.36.40	4.18
3.03	27.40	3.33
4.22	37.45	2.37
5.26	118.33.50	1.18
6.30	33.40	0.14
9.36	32.45	5.40 Midi
10.57	31.50	0.50
12.25	119.53.25	3.56
14.14	32.15	4.57
15.13	30.53	7.43
16.11	28.50	
17.15	118.22.40	
18.17	20.50	
19.19	18.15	

Lat: (de 10. au 12. obs) = $46^{\circ}30'22''$
 avec $\delta = 55''$

le 5 May Double hauteur pres midi

Heure	Double hauteur pres midi	
11.53.42	118.42.10	
58.03	45.50	
58.42	119.53.40	
58.01	36.20	
59.30	120.00.40	
0.00.02	02.20	
1.44	119.00.50	
2.45	02.55	
3.40	04.10	
4.35	05.18	7.04
6.00	120.09.50	5.59
6.57	10.45	4.42
7.47	11.20	3.52
9.00	12.15	2.59
10.15	119.09.10	1.24
11.28	08.55	1.11
13.23	08.50	1.44
14.37	08.20	2.58
16.35	120.10.40	4.36
17.49	09.10	6.10
18.57	07.50	7.18
20.29	119.02.20	
21.53	00.40	
22.39	120.02.20	
23.40	00.40	
24.43	119.57.50	
25.49	55.40	
26.45	53.20	
27.53	118.47.20	
28.54	44.40	
29.47	41.40	

Lat (de 11 obs avec $\delta = 13.5$) = $46^{\circ}30'03.6''$

le 6 May

Heure	Double hauteur pres midi	
11.48.53	120.13.20	
48.04	21.50	
49.56	119.22.50	
50.51	25.45	
51.88	27.55	
52.56	120.33.25	
54.15	36.10	
55.09	37.40	
56.02	119.35.50	
56.53	37.10	
58.13	38.20	6.56
59.21	120.43.40	6.43
0.00.35	44.40	4.55
1.51	45.40	5.37
2.53	119.42.20	4.15
4.33	43.20	3.35
5.30	42.35	2.22
6.29	120.46.10	1.21
7.52	45.55	2.24
8.57	45.40	3.29
9.55	119.41.55	4.25
10.57	40.55	5.29
12.03	38.15	7.00

45.25

10.17.34.

10.17.40
 27.57

0.15.37. — 120.39.20
 16.16 — 37.10
 16.38 — 34.50
 17.34 — 119.30.04
 18.14 — 27.40
 20.11 — 25.50
 21.25 — 120.24.00
 22.29 — 21.10
 23.20 — 17.45
 24.33 — 15.30

Lat. (de 14 obs avec $\delta = 25^\circ$) = 46.50.01

2 le 7 May

49.34 — 120.30.15
 50.57 — 40.10
 51.44 — 119.40.30
 52.47 — 40.10
 53.49 — 47.10
 55.14 — 51.20
 56.10 — 120.34.40
 57.32 — 121.11.20
 58.37 — 40.10
 59.02 — 40.10
 60.13 — 120.30.15
 61.30 — 120.30.15
 62.32 — 40.10
 63.47 — 120.10.10
 64.54 — 121.14.45
 65.50 — 120.30.15
 66.50 — 40.10
 67.45 — 120.30.15
 68.55 — 120.30.15
 69.07 — 120.30.15
 70.45 — 120.30.15
 71.52 — 120.30.15
 72.25 — 121.10.10
 73.37 — 120.30.15
 74.14 — 120.30.15
 75.20 — 120.30.15
 76.52 — 120.30.15
 78.04 — 120.30.15
 79.14 — 120.30.15
 80.13 — 120.30.15
 81.44 — 121.11.45
 82.55 — 120.30.15
 84.08 — 120.30.15
 85.04 — 120.30.15

a 26.25 — 119.28.50
 27.25 — 150.10
 28.25 — 150.10
 29.45 — 120.50.10
 30.44 — 120.50.10
 31.37 — 147.40
 32.37 — 144.35

Lat. (de 8 obs avec $\delta = 25^\circ$) = 46.50.17
 2 le 7 May

52.25 — 120.30.15
 53.30 — 121.10.10
 54.47 — 120.30.15
 55.50 — 10.10
 56.32 — 10.10
 57.40 — 120.30.15
 58.40 — 120.30.15
 59.40 — 120.30.15
 60.40 — 120.30.15
 61.40 — 120.30.15
 62.40 — 120.30.15
 63.40 — 120.30.15
 64.40 — 120.30.15
 65.40 — 120.30.15
 66.40 — 120.30.15
 67.40 — 120.30.15
 68.40 — 120.30.15
 69.40 — 120.30.15
 70.40 — 120.30.15
 71.40 — 120.30.15
 72.40 — 120.30.15
 73.40 — 120.30.15
 74.40 — 120.30.15
 75.40 — 120.30.15
 76.40 — 120.30.15
 77.40 — 120.30.15
 78.40 — 120.30.15
 79.40 — 120.30.15
 80.40 — 120.30.15
 81.40 — 120.30.15
 82.40 — 120.30.15
 83.40 — 120.30.15
 84.40 — 120.30.15
 85.40 — 120.30.15

Lat. (de 15 obs avec $\delta = 25^\circ$) = 46.29.51
 2 le 7 May

Latitude moyenne de toutes les obs.
 précédentes le milieu des deux dernières pour une = 46.30.07.5

11.48.01 — 121.47.50
 30.13 — 154.50
 51.30 — 158.45
 52.39 — 122.03.10
 54.15 — 121.04.15
 55.10 — 108.20
 56.11 — 108.10
 57.20 — 110.48
 58.29 — 112.30
 59.51 — 122.17.45
 60.46 — 118.50
 61.23 — 121.50
 62.11 — 122.40
 63.09 — 123.50
 64.05 — 121.20.50
 65.00 — 121.45
 66.00 — 121.40
 67.00 — 121.30
 68.00 — 121.45
 69.00 — 122.24.40
 70.00 — 123.50
 71.00 — 122.40
 72.00 — 122.10
 73.00 — 122.20
 74.00 — 122.14.45
 75.00 — 122.10
 76.00 — 122.10
 77.00 — 122.10
 78.00 — 122.10
 79.00 — 122.10
 80.00 — 122.10
 81.00 — 122.10
 82.00 — 122.10
 83.00 — 122.10
 84.00 — 122.10
 85.00 — 122.10

Lat. (de 12 obs avec $\delta = 25^\circ$) = 46.29.41
 2 le 7 May

Dte 10 May
 1 heure
 49.25 — 120.34.10
 50.42 — 120.34.10
 51.43 — 120.34.10
 52.43 — 120.34.10
 53.53 — 120.34.10
 55.01 — 120.34.10
 56.55 — 120.34.10
 58.55 — 120.34.10
 60.55 — 120.34.10
 62.55 — 120.34.10
 64.55 — 120.34.10
 66.55 — 120.34.10
 68.55 — 120.34.10
 70.55 — 120.34.10
 72.55 — 120.34.10
 74.55 — 120.34.10
 76.55 — 120.34.10
 78.55 — 120.34.10
 80.55 — 120.34.10
 82.55 — 120.34.10
 84.55 — 120.34.10
 86.55 — 120.34.10
 88.55 — 120.34.10
 90.55 — 120.34.10

11.48.01 — 121.47.50
 30.13 — 154.50
 51.30 — 158.45
 52.39 — 122.03.10
 54.15 — 121.04.15
 55.10 — 108.20
 56.11 — 108.10
 57.20 — 110.48
 58.29 — 112.30
 59.51 — 122.17.45
 60.46 — 118.50
 61.23 — 121.50
 62.11 — 122.40
 63.09 — 123.50
 64.05 — 121.20.50
 65.00 — 121.45
 66.00 — 121.40
 67.00 — 121.30
 68.00 — 121.45
 69.00 — 122.24.40
 70.00 — 123.50
 71.00 — 122.40
 72.00 — 122.10
 73.00 — 122.20
 74.00 — 122.14.45
 75.00 — 122.10
 76.00 — 122.10
 77.00 — 122.10
 78.00 — 122.10
 79.00 — 122.10
 80.00 — 122.10
 81.00 — 122.10
 82.00 — 122.10
 83.00 — 122.10
 84.00 — 122.10
 85.00 — 122.10

Lat. (de 10 obs avec $\delta = 25^\circ$) = 46.29.52
 2 le 7 May

11.48.01 — 121.47.50
 30.13 — 154.50
 51.30 — 158.45
 52.39 — 122.03.10
 54.15 — 121.04.15
 55.10 — 108.20
 56.11 — 108.10
 57.20 — 110.48
 58.29 — 112.30
 59.51 — 122.17.45
 60.46 — 118.50
 61.23 — 121.50
 62.11 — 122.40
 63.09 — 123.50
 64.05 — 121.20.50
 65.00 — 121.45
 66.00 — 121.40
 67.00 — 121.30
 68.00 — 121.45
 69.00 — 122.24.40
 70.00 — 123.50
 71.00 — 122.40
 72.00 — 122.10
 73.00 — 122.20
 74.00 — 122.14.45
 75.00 — 122.10
 76.00 — 122.10
 77.00 — 122.10
 78.00 — 122.10
 79.00 — 122.10
 80.00 — 122.10
 81.00 — 122.10
 82.00 — 122.10
 83.00 — 122.10
 84.00 — 122.10
 85.00 — 122.10

4 of 8 = 860 - *July*

10. 26.38 ~ 66.49.20.
 27.30 ~ 65.55.40.
 29.15 ~ 66.07.50
 30.20 ~ 66.18.00
 31.25 ~ 67.32.40
 33.12 ~ 67.50.00
 34.02 ~ —. 55.20
 36.55 ~ —. 14.10

937 7.45.20
 10. 31.12 66.57.42

4 of 11 = 860 - *July*

9. 48.07 ~ 58.28.40.
 49.15 ~ —. 51.50
 50.55 ~ —. 05.40
 52.17 ~ —. 21.40
 53.46 ~ —. 37.40
 54.56 ~ —. 51.20
 57.44 ~ 60.26.40.
 10. 02.51 ~ 61.16.50.

429.29 0 9.10.20.
 9. 53.41 - 59.08.47

4 of 15 = 860 - *July*

8. 49.00 ~ 44.26.40
 9. 4.21 ~ 50.53.20.
 6.26 ~ 51.20.40.
 7.29 ~ 52.38.40.
 9.32 ~ 53.05.50.
 10. 55 ~ 53.18.10
 11.45 ~ 53.32.40
 13.04 ~ 52.45.10
 14.34 ~ 53.02.40
 77.44 20 57.50
 9.45.0 52.34.44

4 of 16

37.28 ~ 61.10.40
 39.18 ~ 62.31.20
 40.15 ~ 62.38.20
 42.28 ~ 62.42.40
 38.29 ~ 60.00.00
 9.37. 60.00.45

Med: 11.58.53

9. 2.08 ~ 53.57.50.
 3.47 ~ 54.48.50
 5.08 ~ —. 33.10
 6.11 ~ 53.15.50
 7.21 ~ 53.02.20
 8.49 ~ —. 49.50

Med: 11.57.16

33.24 0 4.27.50
 2. 5.34. 44.38

OT J 202 8 bre

9.01.54. ~ 42.19.50
 3.29 ~ 42.46.50
 4.40 ~ 43.04.20 *Midi 11.53.03*
 8.17 ~ 42.50.10
 9.51 ~ 43.11.40
 11.25 ~ 43.34.50
 3.2
 59.17 17.47.40
 9.06.35-0 42.57.57
 J 21.5 8 bre *Monte artee*

9 44.38 ~ 48.25.40
 46.14 ~ 48.40
 48.57 ~ 50.10.40
 49.49 ~ 50.33.50
 50.50 ~ 50.45.50 *Midi 0.00.47*
 52.17 ~ 49.56.50
 53.12 ~ 50.07.50
 55.16 ~ 51.37.40
 44.4
 1.13 10.24.00
 9.50.09. 50.03.00

4 J ar = 8 bre

9.17.09 ~ 42.00.00
 9.53.22 ~ 50.05.10
 57.40 ~ 51.36.20
 59.51 ~ 52.00.00
 10. 01.41 ~ 52.20.00
 3.59 ~ 51.40 -
 5.49 ~ 52.00 -
 7.45 ~ 52.20 -
 8.23 ~ 53.30.40

OT J 27

10 16.10 ~ 51.56.40
 18.35 ~ 51.59.10
 21.09 ~ 52.23.50
 22.09 ~ 51.50
 24.09 ~ 51.44.50
 27.26 ~ 52.13.10
 28.57 ~ 52.40
 29.49 ~ 52.50.50
 19.47 17.36.00
 20.58 52.14.45

11.48 6.140.180
 10.02.57 2.23.00
 92.05.45 0.02.52
 18.29 13.120
 2.189 14
 24.59.7 9.35.00
 2.23.45

32^e December, 1797

9. 528. 20. 52. 40
 4 47 21. 55. 10
 6 25 22. 15. 50
 8 55 22. 45. 40
 10 37 22. 04. 20
 12 24 21. 59. 50
 46. 14 11. 58. 20
 9. 07. 42. 0 21. 59. 45

19^e June 96 by *John*
 with Dan Sextant

9. 38. 34 55 37. 40

10. 01. 06 57. 57. 40.
 5. 38 58. 16. 10.
 5. 33 58. 30. 50.
 3. 19. 59. 55. 50.
 9. 45. 60. 06. 40.
 10. 25. 60. 12. 40.
 12. 43. 60. 33. 10.
 14 44 60. 40. 50.
 15. 43 60. 47. 10.
 17. 21 59. 51. 50
 30. 28 61. 07. 40.

1797

31^o Ventose = 28 February
 auf Geisflaf

32. 8

11. 56. 09 69. 16. 10
 59 14 70. 23. 10 69. 51. 2
 - 0 59 24. 40. 52. 32
 2. 08 69. 20. 48 52. 56
 3. 49 21. 13 53. 21
 8. 40 70. 25. 50 53. 42
 7. 02 25. 47 53. 39
 8. 25 69. 20. 53 53. 01
 9. 58 20. 55 50. 03
 11. 47 19. 18 51. 26
 13. 06 70. 22. 10 0. 02
 14. 19 69. 17. 40
 15. 24 16. 40 61. 5
 16. 13 15. 50
 17. 56 14. 45

51. 37
 15. 40
 56. 09
 11. 52
 5. 36

39. 14
 11. 47
 11. 01

0. 5. 49 M. H. H. H.

47. 25. 24. 74

Alt 0 p.p. x 3 az
 4.34.56 ~ 19.25.40.
 36.18 ~ 17.54.55.
 38.51 ~ - .05.50

9 1/2 May
 alt 0 p.h

10 14.29 ~ 60.24.52
 15.31 ~ - 36.22
 16.28 ~ 09.42.05
 17.29 ~ - 52.36
 18.50 ~ 60.06.38
 20.23 ~ - 22.37
 21.27 ~ 61.38.48
 22.32 ~ - 49.54

Alt 0 in Mexico. 7th May
 11.57.07 ~ 70.01.07

58.26 ~ - .2.38
 0 15 ~ 71.09.22
 1 32 ~ - 09.53

2 48 ~ - 10.42
 3.50 ~ - 11.35

5.27 ~ 70.06.45
 6.32 ~ - 06.49

7.55 ~ - 6.50
 9.13 ~ - 6.38

10.23 ~ - 6.27
 11.02 ~ 71.10.24

13.23 ~ - 9.20
 15.5 ~ - 8.8

16.12 ~ 70.02.06
 17.5 ~ 1.40
 17.47 ~ 70.00.40

6.45-
 5.28-
 4.12-
 3.10-
 1.53-
 0.28

7.00 M.Hoy
 0.55
 2.13
 3.23
 4.02
 6.23
~~8.05~~

alt 0 p.h

5' 24.17 ~ 40.57.50
 25.32 ~ - 37.55

26.22 ~ 39.19.50
 27.08 ~ - 08.52

27.59 ~ 38.53.12
 29.01 ~ 39.40.55

Lat. 0 = 47.25.29.07

2nd along 7th of 1914
alt on mer

11.	53.	58.	✓	70.	45.	42.	+	
	55.	3.	✓	70.	46.	48.	+	
	56.	15.	✓		47.	52.	+	
	57.	46.	✓	71.	51.	10.	-	
	59.	46.	✓		55.	20.		7.39
	0.	47.	✓		55.	35.		5.39
	1.	59.	✓		56.	40.		4.38
	3.	4.	✓		57.	20.		2.26
	3.	59.	✓	70.	52.	35.		2.21
	5.	9.	✓		52.	50.		1.26
	6.	33.	✓		52.	25.		5.25
	7.	39.	✓	71.	57.	20.		4.4
	8.	47.	✓		56.	30.		1.08
	9.	43.	✓		56.	10.		2.14
	10.	47.	✓		55.	47.		3.22
	11.	48.	✓		54.	40.		4.18
	12.	26.	✓		54.	17.		5.22
	13.	32.	✓	70.	48.	50.		6.23
	14.	21.	✓		48.	5.		7.01
	15.	2.	✓		47.	41.	+	

15.49. ✓ . 70. 46. 42. +
16.36. ✓ . - . 45. 55.
17.22. ✓ . 45. 36. +
Lat 47.25. 26.8

Alt 0th of 1914

2.	43.	44.	✓	51.	28.	55.
	45.	30.	✓	51.	02.	40.
	46.	18.	✓	50.	52.	50.
	47.	35.	✓	49.	29.	40.
	48.	43.	✓	49.	13.	23.
	49.	58.	✓	48.	54.	58.
	50.	57.	✓		40.	20.
	51.	42.	✓	49.	34.	20.

3rd 14.19th of 1914
15.10th of 1914
16.03.5th of 1914
16.53.5th of 1914
16.54.5th of 1914
17.44th of 1914
18.43th of 1914
19.31th of 1914
20.20th of 1914
21.19.14th of 1914

3 22.25 $\cup$ 40.74.52
 23 46 $\cup$ - 1.5.10
 24 49 $\cap$ 41.01.40
 25 45 $\cap$ 40.46.32
 27 10 $\cap$ - 22.10
 28.08 $\cap$ - 06.40
 29 30 $\cup$ 38.38.50
 30.28 $\cup$ 38.23.36

4^h 17.03 $\odot$ 44.22.50
 22.5 - 25.40
 24.25 - -

3 3^h 22.25 $\cup$ 40.74.52
 11. 34.41. $\cap$ 72.37.55

5 6.15. $\cap$ - 39.42. =
 5 7.14. $\odot$ 71.35.20. 22
 5 8.11. $\odot$ - 35.40.4
 5 9.5. $\odot$ - 36.50. -
 6 0.1.0. $\cap$ 72.42.17. 7.59
 1.18. $\cap$ - 42.52. 6.58
 2. 1. $\cap$ - 42.58. 5.44
 3.30. $\cap$ - 43.20. 4.39
 6.45. $\cup$ 71.38.20. 3.51
 5.52. $\cup$ - 38.45. 2.48
 7.29. $\cup$ - 38.20. 1.19
 8.36. $\cup$ - 37.55. 0.04
 9.27. $\cup$ - 37.20. 4.49
 10.21. $\cup$ - 36.20. 1.03
 11.18. $\cup$ - 36.15. 2.40
 12. 6. $\cup$ - 35.40.4 3.47
 12.45. $\cup$ - 35.15. 4.38
 13.34. $\cap$ 72.39.20. 5.32
 6.29
 7.17

11. 14.23. $\cap$. 72.38. 10.

15.17. $\cap$. - 37.48.

Latitude 42 25.26.05

All Opp ar

1. 26.57. $\cap$. 66.56.50

27.16. $\cap$. 66.45.50

28.12. $\cap$. 65.33. 8

29.27. $\cap$. 65.22. 40

30.48. $\cap$. 65.11. 10

31.52. $\cap$. 65. 2. 5

32.49. $\cap$. 64.53. 5

33.48. $\cap$. 65.49. 10

35.00. $\cap$. 65.38. 10

35.57. $\cap$. 65.29. 10

All Opp ar

3. 20.45. $\cap$. 42.37. 10

21.52. $\cap$. 42.19. 20

23.20. $\cap$. 40.50. 10

3. 24.12. $\cap$. 40.36. 15

24.56. $\cap$. 40.24. 20

25.59. $\cap$. 40. 6. 50

27.12. $\cap$. 40.51. 10

28.27. $\cap$. 40.31. 20

2. 16. $\cap$ in Oben Dornau May 22

11.57.02 $\cap$ 81.31.06

39.09 $\cap$ - 35.15

42.07 $\cap$ 82.45.40

45.28 $\cap$ - 46.40

48.42 $\cap$ - 48.20

47.42 $\cap$ - 50.10

50.40 $\cap$ - 50.52

52.20 $\cap$ - 52.40

53.34 $\cap$ 81.48.20

55.10 $\cap$ - 40

57.04 $\cap$ - 37

57.15 $\cap$ - 35

58.42 $\cap$ - 12

60.15 $\cap$ 81.47.59

1.10 $\cap$ 82.51.22

3.18 $\cap$ - 50.35

3.28 $\cap$ - 48.58

6.15 $\cap$ - 40.40

6.15 $\cap$ - 40.40

4.44. ✓ 81.58.10
 8.52 ✓ — 36.40
 10.22 ✓ — 38.20
 11.21 ✓ — 31.50
 12.12 ✓ — 50.20
 Don't know 47.25.19.1

10.46.26 ✓ 117 30.50
 48 10 ✓ — 32.40
 50.20 ✓ — 35.10

Anno 65 Meford on 1st 0 pm

9.02.54. ~ 98.00.37
 5.51 ~ 55.52
 7.55 ~ 100.32.20
 8.47 ~ 54.15.
 10.02 ~ 101.17.50
 11.22 ~ 42.20.
 12.49 ~ 101.05.40
 14.55 ~ 101.44.45.

Err And 1.48 0

- 29.48 - 3.24 29.42 3.58
 + 35.10 1.42 33.20 1.49
 62.58
 31.29

74.15
 9.17 6.13.39
 46.42

3.32.2. ~ 44.42.20.
 33.13. ~ 19.5.
 34.39. ~ 42.46.30.
 35.31. ~ 30.5.
 36.31. ~ 9.15.
 37.21. ~ 41.51.20.
 38.15. ~ 42.39.15.
 39.15. ~ 19.10.

6.21.21. ~ 28.12.5.
 23.11. ~ 7.00.
 21.16. ~ 26.13.00.

June 1st 1875
 Length of day = 32.30
 Corresponding night = 14.30
 Anne's day + 25.38 46.48
 - 21.10 25.24
 138
 1404
 600
 37440 27
 1404
 2808
 9360
 9828

les 6 Mejidon au V. du Cabinet
att 0 p p.

8. 21.27 ~ 79.37.40
22.36,5 ~ 80.02.08
23.52,5 ~ 79.22.40
25.18 ~ 51.20
26.06 ~ 80.17.50
28.25 ~ 80.53.10
29.25 ~ 82.16.50
30.27 ~ 37.25

att 0 correspond

9^h 05' 24" ~ 93.00 ~ 10.51
10 ~ 95. ~ 7.53
11.58 ~ 95. ~ 6.13
12.41 ~ 95.20 ~ 4.55
14.47 ~ 96.00 ~ 03.31
15.50 ~ 96.20, 5^h 00.10
16.52,5 ~ 40
18.59 ~ 97.26 ~ 37.13
20.03 ~ 40 ~ 56.9
21.06 ~ 98.00 ~ 55.06
23.13 ~ 40
24.16 ~ 99.00 ~ 251.56

Gravitation M. Llag 0.08.07.08

att 0 correspond

7. 54.59 ~ 109.20 ~ 21.10
56.10 ~ 140 ~ 19.59,5
58.29 ~ 110.20 ~ 17.41
10 0 47 ~ 111.00 ~ 15.22
1.57 ~ 111.20.4 ~ 14.11
4.20 ~ 112.00.4 ~ 11.51
6 42 ~ 112.40 ~ 9.28
9 08 ~ 113.20 ~ 2.07.025
12 45 ~ 114.20 ~ 2 01.27.111

Durham Road. 1.59.50

correction M. Llag = 0^h 08.05.49

+ 55.25 ~ 115.20.4 ~ 11.53,5
- 29.38 ~ 3.47
53.03
31.31,5

1200 3 p.p.
 4. 20.21. 70°
 21.20 69.40
 23.20 69.00
 25.18 68.20
 26.19 68.00
 29.25 67.40
 30.25 67.40
 31.23 67.20
 32.24 67.00
 33.23.5 66.40

Eclips ③

5. 34.59.5 up all the distance

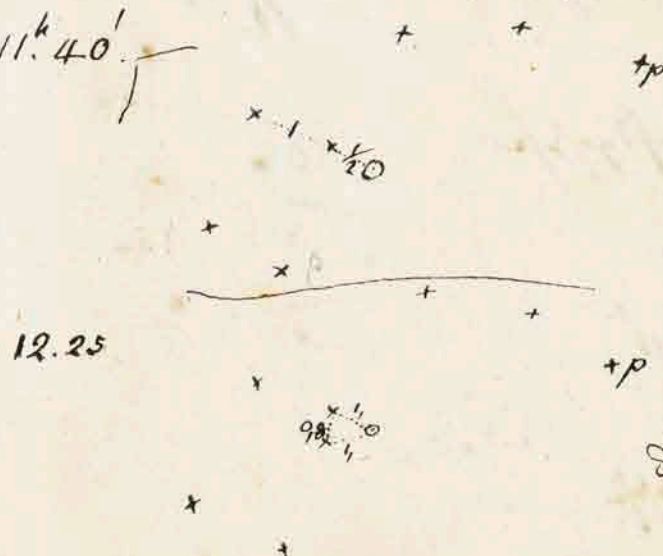
42.02 16.28
 45.28 13.12.
 46.37 15.07
 52.40 22.18

6. 58.05 below the first eclipse
 below the first and upper eclipses
 9. 1. 20

§ 16 August 1797. Lamp bay Philadelphyl

Erbeziehung einer neuen Cometae in der Höhe
 über dem Meeresspiegel
 Zeit der Beobachtung
 mit dem Fernrohr
 bei 5 Zoll
 bei 7 Zoll

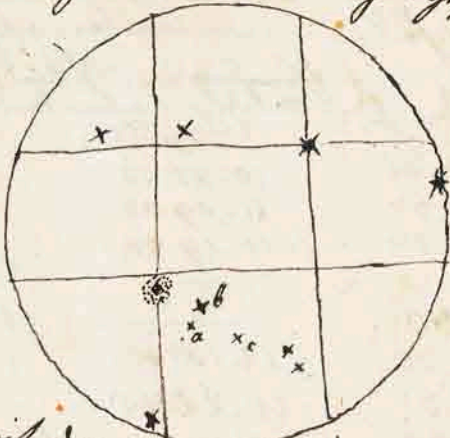
10. 38.40	10. 55.55.	
45. 33	11. 09.30.	
48. 55	11. 19.20.	11. 04.45.
51. —		11. 16.30.
56. 30	11. 15.40.	
57. 30.	11. 22.40	11. 19.30.
11. 05.31.		
6.30	11. 24.30	11. 27.15.
13.25		11. 45.30
14.52.		
47. 15		
11. 40'		



Erbeziehung einer neuen Cometae in der Höhe

12. 38.

mit dem pflichtgemäßen Vorgehen der
7 zölligen Exzentrik beauftragt zu werden



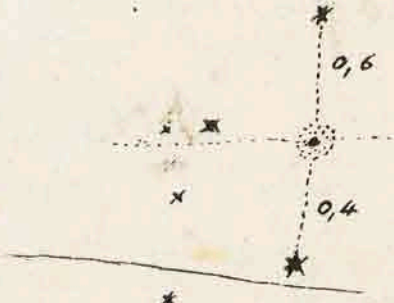
1^k 9.10.

mit dem Carippen-Lorist

~~42° 59' 25"~~ ~~41. 59. 20.~~ ~~10. 1~~ $2^{\circ} 55\frac{1}{2}'$ $3. 09. 50''$

über diese Zeit

uniform & graceful



1. ^h 49.15 ^r ^h

3
aufrecht zu sitzen

1.^h 56'.40"

$\alpha \quad \beta \quad \gamma \quad \delta$ } Connet in Vert hinc

2.0

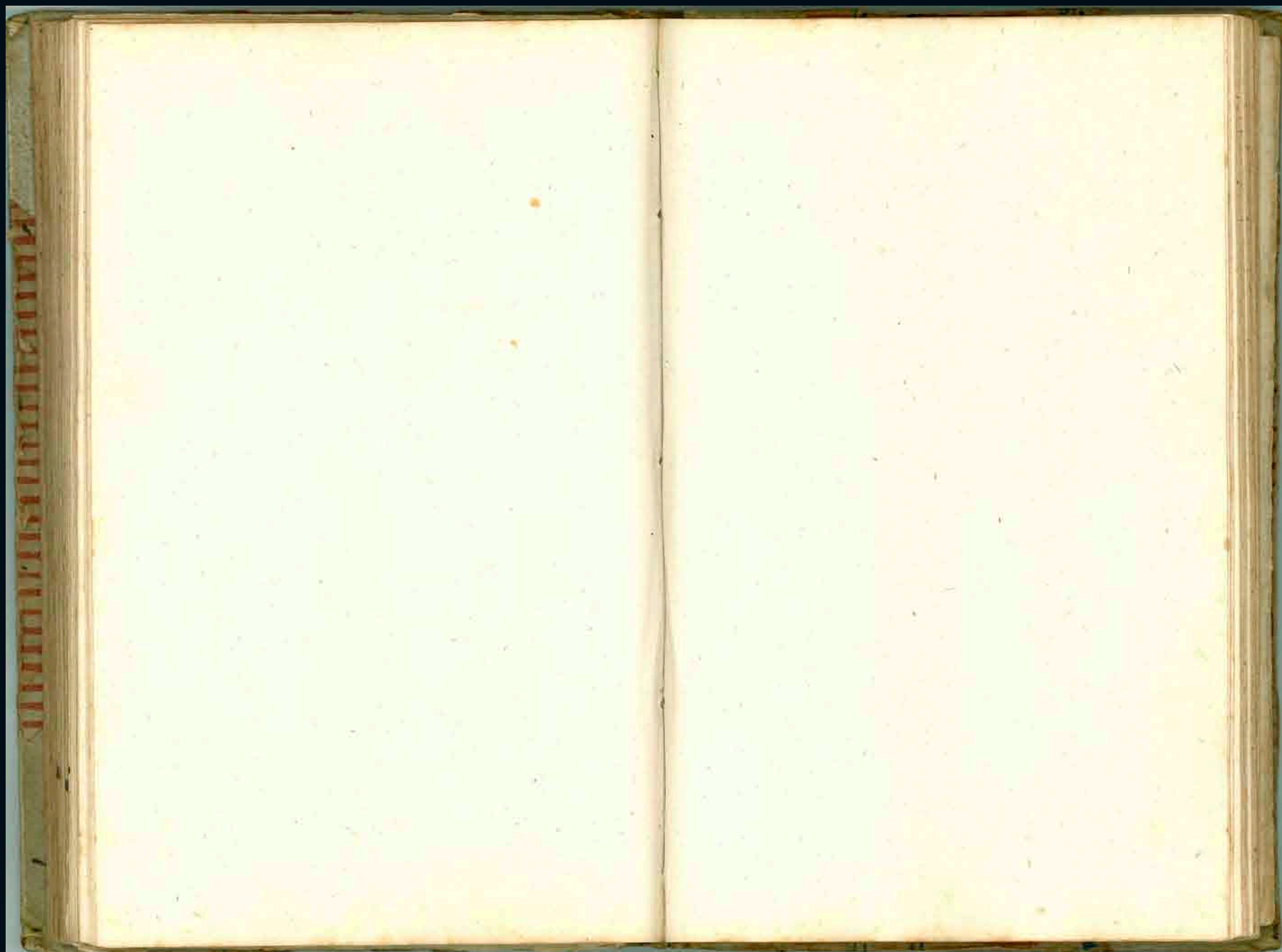
2 15
x x
 2 Comenius d. 2. 1711
J. G. Hoffmann d. 2. 1711

$$\begin{array}{r} 2^h \quad 2' \quad 312 \\ 46 \end{array}$$

$a \times x^c$ $(ab = \frac{1}{2}ac)$ } continue
b  } short work
a

mit dem Ceryphus Rivis
Zufu von Vega

2. 54. 37. 26. 07. 05 - 10" oc.
3. 04. 16 28. 03. 48. - 4' 07 -



Wang vief den Oberst von der Armee
und dem Obersten der Armee mit
deimal Eintreibung

Jesliff - Langhans 44,982 +
 Lali - Jorgensen 6,446
 Danko - Kimpberg 66,446

Agave all ex: i, S.

Dark Gilt point du depart 335, 898
 of the Dux of the 107, 994
 280, 093
 52, 194
 306, 206

10 A. B. Jones Robt
 Sale - Wartegels
 109,472 = 36,4900
 2 = 18,2450
 100 = 5,11910
 160,000 }
 320,000 } 80,1963
 81,178 }

Valeu Wartenfels	$\left\{ \begin{array}{l} 81,178 \\ 184,663 \end{array} \right\}$	26,489
Friedrichsberg	$\left\{ \begin{array}{l} 17,667 \\ 207,269 \end{array} \right\}$	44,882
	$\left\{ \begin{array}{l} 296,808 \end{array} \right\}$	30,000

Wey Kunzeberg - Pomer. Jany 1800.

Am Ende des vorgehenden Kapit. mit dem 5^{ten} Sect.

Epitaphium und Auf. d. Kapit. 97. 30,8

Dofel u. Dimpf 90. 45,75

— Dillhofen 106. 2,5

— Dambigau — 117. 26,

— Dambigau u. Kapit. Auf. 98. 33,

Epitaphium u. Giebnau 99. 42.

Beginn Epitaphium und Auf. mit gl. f. f.

Dofel 15 36

Dambigau u. Kapit. Auf. 34. 12

— Dambigau 42. 17. 50

— Giebnau 56. 08.

Dofel Auf. u. Mänschen 7. 05,5

Dambigau u. Dambigau 31. 46,

Dofel Auf. u. Monrepos 24. 17,

Dambigau u. Mänschen 34. 12,5

Dofel Auf. u. Dambigau 7. 45,5

Ern. End - 1. 45.

Beginn Auf. d. Kapit. mit 1. 5^{ten} Sect.

Epitaphium u. Kapit. 66. 55,5

Dambigau — 34. 47,

Epitaphium u. Giebnau 116. 5,5

Beginn Epitaphium u. Auf. d. Kapit. 1^{ten} Sect.

Giebnau u. Mänschen 38. 25,

— Dambigau 56. 40,

Wöl. Kapit. 40. 51,

Giebnau u. Mänschen 68. 38

— Dambigau 84. 03,5

— Mänschen 68. 53.

— Dambigau 74. 22.

Epitaphium u. Giebnau 106. 30,6

Mänschen u. Dambigau 76. 39,5

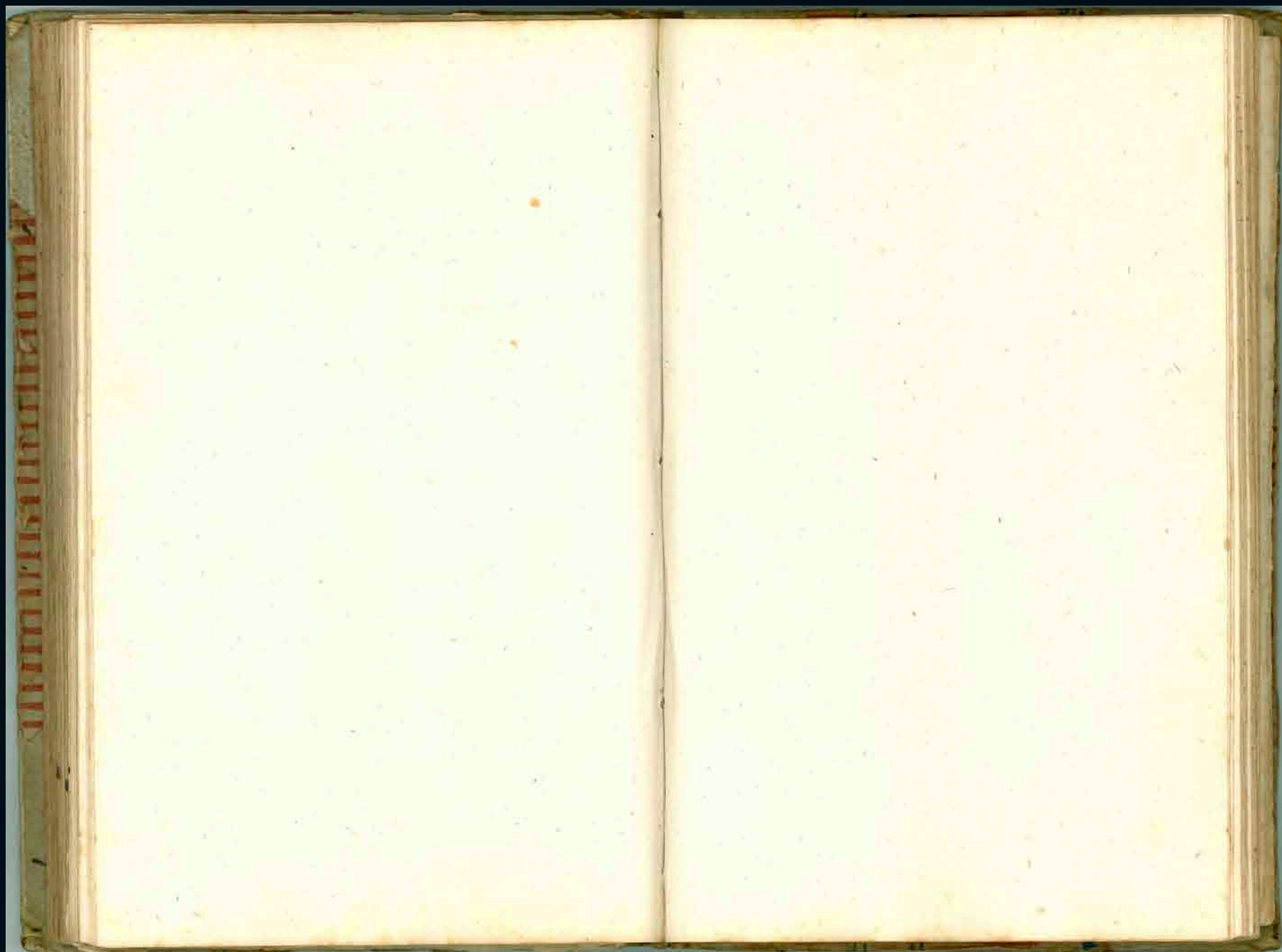
— Dambigau 20. 08.

— Dambigau 7. 52,5

— Dambigau 31. 30.

— Dambigau 31. 30.

Ern. End + 7.



Kupf. Gl. bei der Theod.

Von Piz an

Mar. 1. 159. 24. 36 w

0 163. 20 - 1. 28
9 168. 20 - 4. 36"
12 154. 20 - 1. 4. 56"
15 156. 20 - 1. 4. 46"

Mar. 2. 20. 36. 7. 6

15 17. 20 + 1. 18"
12 15. 20 + 3. 59.
9 26. 20 + 1. 1. 40"
0 24. 20 + 1. 4. 34"

von Cary & c

auf Guss-Stein
 Gegen Mittel den Kugel zu zeigen

Obj. Winkel links 00
 - 5.37.12" + 5.36.58"
 37.00-21" 57.5"
 38-49" 37.30-32"
 2. Obj. 17
 - 5.19.01" + 5.18.51"
 2 5.18.30+28
 5.18.30+33" 18'58"
 5.18+1.03" 5.17.30+1.32"

Winkel von Stern
 Anmerk?

- 4.19.38" + 4.19.36"
 4.19.35" 34.
 38 34

Alinthe

4.38.04 4.37.49
 4.38.30-34" 4.38-12
 4.39-1.11 4.38.30-43
 39.30-1.44 39-1.25

Baron Bar Thörn Uden

ob	mit	49°F	9 ^h 0
-13,2	-6,0		
25.19,2			
25.4,8			
-13,0	+5,95	48	9.30
1,6,95			
25.5,05			
13,25	6,0	49,2	10 ^h
1,7,25			
25.4,75			
12,9	5,9	48,7	11 ^h
1,6,3			
25.5,2			
12,95	5,95	49,4	12
1,6,9			
25.5,1			
12,95	5,95	53,0	1 ^h 10
1,6,9			
25.5,1			

Sp. Yak. Kewitz
An. Leub. 90
 Obj. 5. 29. 43 5. 29. 42
 5. 00. 15 30. 10
 30. 00. 45 30. 00. 47
An. Kewitz

5. 10. 58 5. 10. 57
 .58 56
 11. 02. 57

Dom. Ligon. Ligon.
An. Kewitz
 0. 41. 41 0. 41. 42
 42. 23 42. 22
 42. 30. 30 42. 30. 47

An. Leub.
 0. 22. 22 0. 23. 18
 .19 18
 14 13
 15 15

Ligon. Kewitz
 5. 37. 25 5. 37. 14
 5. 18. 51 5. 18. 47

Dyom. Kewitz
An. Leub. 90
 Obj. 6. 4. 37 6. 4. 28
 .42 35
 43 35

6. 23. 12. 6. 23. 13
 23. 00. 17 23. 30. 16
 24. 00. 1. 19 24. 00. 51

Dyom. Kewitz
An. Leub.
 5. 37. 07 5. 36. 57
 5. 18. 30 5. 18. 29
 (F. 18. 30. 30)

by Post Anfang mit B. ①
 Garten in Dandigen Pflichten

1	2	3	4
0,00	100,09 55	199,29 45	299,90 35

258,203
 116,950
 14,6925
 208,921

91,148	191,2025	291,042	391,0685
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Pflichten in Dandigen

240,1965
 389,2428
 106,2925
 287,533
 56,586
 185,4325

334,4815

83,535

232,577

381,601

81,726	181,5265	281,562
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by Post Anfang

59,474

135,5215

215,167

293,023

570,8645	70,9565	170,759	270,792
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Wert 4 Dandigen

171,432

371,390

172,554	272,653	372,449	72,4795
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Dandigen

364,1595

158,7605

342,363	43,4585	142,2575	242,2935
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Pflichten

145,2525

342,143

141,0245	241,123	340,9285	40,955
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Garten

371,868

122,702

313,526	13,621	113,414	213,4485
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ab 1/10

by Post Anfang

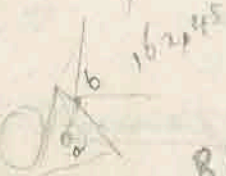
Dandigen

by Post Anfang

by Post Anfang

by Post Anfang

by Post Anfang



87,20

8. 2 July auf gleich mit dem Carpyff Horden

Etoile de Wils
Micromalg. m. alg.

146.40.12" w 33.20.48" l

Rindlichfhn.

147.20. - w 33.00.42" l

5" 5' 9"

Wiffal Kumpf

145.20. - 75° + 2' 2' 28" l

5' 4' 56"

afu/wyful

146.20. w 33.40 + l

- 2' 30" 3' 11"

Wiffal Kumpf

146.40 - 23 w 33.20 + 53" l

Rindlichfhn

147.00 - w 33.00 + l

- 1' 58" 2' 48"

Rindlichfhn

151 - w 29 + l

4' 55" 1' 8"

Wiffal Kumpf

146.40.8" w 33.20.31" l

Wiffal Kumpf

154.00. w 25.00. l

- 3" 20" + 3" 1' 2"

Wiffal Kumpf

154.20 - w 25.40 + l

1" 1' 58" 1" 2' 36"

Wiffal Kumpf

156.20 - w 25.40 + l

2" 1' 29" 2" 2' 15"

Wiffal Kumpf

157.00 w 25.00 l

- 3" 29" + 3" 1' 8"

Wiffal Kumpf

156.40 w 25.20 l

- 4' 00" + 4' 41"

Wiffal Kumpf

161.00 w 19.00 l

- 4' 45" + 5' 29"

Niedrig Riesel

167.20. w — 12.40 l
 - 2". 1'. 41" + 2". 2'. 19"

Jägergraben Riesel

163.00. w 17.00 l
 - 2". 50" + 2". 1'. 27"

Jägergraben Riesel

162.00. w 18.00 l
 - 2". 2'. 56" + 2". 3'. 33"

Oberrhein Riesel

171.20 l 8°. 40' - 80
 + 1". 4'. 23" - (2" - 40")

Oberrhein Riesel

146.40. 12" r 35°. 20. 25" l

Tollingen Riesel

178.00 w 2°. 00 l
 - 1". 2'. 20" + 1". 2'. 52"

Niedrig Riesel

145.00 l 35.00 w
 + 3". 1. 14" - 3". 1. 43"

Oberrhein Riesel

143.40 l 36.20 w
 + 3". 11" - 3". 33"

Oberrhein Riesel

135.20 l 44.40 w
 + 2". 2'. 36" - 2". 3'. 36"

Oberrhein Riesel

132.00 l 45.00 w
 + 1". 2'. 09" - 1". 3'. 29"

Oberrhein Riesel

122.40. 16. l 57. 20 w
 - 28"

Oberrhein Riesel

123.00 l 57.00 w
 + 2". 2'. 51. - 2". 3'. 15"

Waid und Waid

15.20 w 164.40 l
- 1^r.3.44" + 1^r.3.44"

Waid und Waid

25.20 w 154.40 l
- 1^r.1.6" + 1^r.1.18"

Waid und Waid

15.40 w 164.20 l
- 2^r.40" + 2^r.12"

Waid und Waid

15.20 w 166.40 l
- 2^r.4" + 2^r.14"

Waid und Waid

25.20 w 156.40 l
- 1^r.58" + 1^r.2.1"

Waid und Waid

30.20 w 149.40 l
- 3^r.31" + 3^r.38"

Waid und Waid

31.20 w 148.40 l
- 1^r.26" + 1^r.32"

Waid und Waid

32.00 w 148.00 l
- 2^r.2.26" + 2^r.2.32"

Waid und Waid

29.40 w 150.20 l
- 2^r.2.36" + 2^r.2.39"

Waid und Waid

29.00 w 151.00 l
- 2^r.1.28" + 2^r.1.33"

Waid und Waid

12.00 w 168.00 l
- 1^r.2.39" + 1^r.2.53"

Waid und Waid

57.20 w 122.20 l
- 3^r.2.24" + 3^r.2.51"

Liabed Cabinet 

32.40 w 147.20 l
- 2" 53" + 2" 59"

waigh Cabinet 

42.40 w 137.20 l
- 1' 23" - 1' 35"

Dollager R.

46.40 w 135.20 l
- 2" 41" + 3" 56"

Werkstoff in einem Ryl

95.00 w 87.00 l
- 2.44" + 3.14"

Werk Ringe

95.40 w 86.20 l
- 3" 1' 1" + 3" 1' 23"

Wyl Ryl

106.00 w 74.00 l
- 1" 5' 58" + 1" 4' 9"

Ring des Ryl Wyl

105.20 w 74.40 l
- 3' 1" + 3' 51"

Wyl in Wyl

162.00 w 18.00 l
- 2" 5' 28" + 3" 22"

Wyl Ryl

173.20 w 6.40 l
- 2" 4' 25" + 2" 4' 52"

Wyl Ryl

41.40 l 138.20 l
+ 3' 34" - 4' 4"

Wyl in Wyl

70.20 l 109.40 w
+ 2' 9" - 2' 19"

Wyl in Wyl

15.40 w 164.20 l
- 59" + 59"

Wyl in Wyl

57.20 w 122.40 l
- 3" 2' 25" + 3" 2' 55"

Michigan N.Y.

74 00 w 106.00.2
- 3" 43" + 3" 1.07"

Instrument M + y 2 1/2 1/2

12.00 w 168.00 c
- 1" 2' 37" + 1" 2.50"

Only found by N.Y. 2 1/2 1/2

1.20 w 178.40 c
- 3' 31" + 3.41"

Leaf for young cabinet

12 00 w 168.00 c
- 1.32" + 1" 42"

Double sign

57.20 w 122.40 c
- 3" 2' 32" + 3" 3.3"

Vertical Winkel

Ocular Nippon Microscope Object

2-12.05" " 2.11.53"
4" 49

Revised

2.31.55 2.31.58"
2.02.18" 2.32.23

Offshore and under dry seabed with light

0.56.08" 2 w 0.56.10"
9 10

1.16.01" 2.11.59"
2" 54.

Distill. Microscope

4.17.38 4.17.46
41. 31

37 46
48

57.49 2 w 3.57.46

58.00 } 57
56. } 56

56.23 per

Honid Lt
Mien Doyli (Mien)

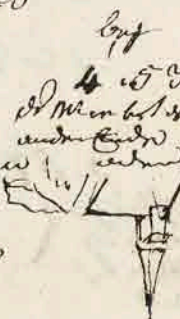
166.20 r 13.40 l
- 1^r.1'.58" + 1^r.2'.25"

Jfihufan Jibral
124.40 r 58.20 l
+ 1^r.1'.52" + 1^r.2'.3"

Jfihufan Lohr Miel F
124.40 r 58.20 l
- 5'.10" + 5'.24"

Mien Jibral Doyli
89.40 r 96.20 l
- 3^r.1'.28" + 3^r.1'.52"

by 4.53"
at Mien 1.18
and 1.18
Doyli (Mien) Mien Jibral
80.00 r 100.00 l
- 2^r.13" + 2^r.52"



Doyli (Mien)

171.00 l 9.00 r
+ 1^r.4'.38" - 1^r.5'.11"

Doyli (Mien)

166.20 r 13.40 l
- 1^r.1'.55" + 1^r.2'.27"

Jfihufan Doyli

Doyli (Mien)
60.00 r 120.00 l
- 2^r.1'.41" + 2^r.2'.6"

Jfihufan Jibral
18.20 r 161.40 l
- 2^r.1'.59" + 2^r.2'.11"

by 2'.9"
at Mien 1.18

Doyli (Mien)
24.40 r 109.20 l
- 1^r.5'.24" + 1^r.5'.29"

Doyli (Mien)
82.40 r 97.20 l
- 2^r.4'.31" + 2^r.4'.54"

60.00 w *Deafest Water* 120.00 l
 - 2ⁿ.1.42" + 2ⁿ.2.7"

6.00 w *Maghineel* 174.00 l
 - 4ⁿ.21" + 4ⁿ.37"

7.35.42 w *Galligan* 172.24.45 l
 24.47.36 w *Refined Oil* 155.12.23

32.59.40 l *Just* 147.00.29
 82.40. w *Don't Sign* 97.20 l
 - 2ⁿ.2.2" + 2ⁿ.2.35"

40.20 w *Manly Bluff* 139.40 l
 - 1ⁿ.5.4" 1ⁿ.5.14"

45.1.10 w *Wylf* 134.59.05
 49.43. w *May 1st 1843* 130.17.30 l

55.00 w *Lowest* 125.00 l
 - 1ⁿ.1.58" + 1ⁿ.2.08"

56.00 w *Longest* 124.00 l
 - 3ⁿ.1.00" + 3ⁿ.1.16"

57.00 w 123.00 l
 - 2ⁿ.4.6" + 2ⁿ.4.27"
 57.20 w 122.40 l
 - 1ⁿ.1.35" + 1ⁿ.2.00"

59.00 w *Living Father* 121.00 l
 - 2ⁿ.1.10" + 2ⁿ.1.36"

58.40 w *Digg Off* 121.20 l
 - 2ⁿ.29" + 2ⁿ.41"
 58°40'.00 w 121.20.16"

Vertical Wheel

Doublet

300,757 | 0,8445 | 100,651 | 200,675
 93,857
 286,9415
 80,0315 | 180,127 | 279,9275 | 379,957

Doublet

Doublet

269,2095
 38,3935
 247,567 | 347,667 | 47,462 | 147,494

Doublet

Doublet

48,576
 249,5565
 50,607 | 150,704 | 250,495 | 350,534

Doublet

271,764
 92,915 | 193,0025 | 292,8002 | 392,831

Doublet

293,972
 95,031 | 195,124 | 294,922 | 394,949

Doublet

100,000 | 100,0925 | 199,8915 | 299,9295

122,743
 245,489
 368,239
 49,9885 | 191,0475 | 290,8855 | 390,909

Doublet

285,4725
 79,944
 274,409 | 374,509 | 47,302 | 174,3385

Doublet

71,332
 268,2505
 69,1735 | 169,272 | 269,0685 | 369,100

Doublet

224,833
 384,4935
 144,143
 303,804 | 69,452

63,455 | 163,548 | 263,3515 | 363,38

(15)

Dofman M + 2 Dautigou

63,456	263,549	263,552	363,382
196,112			
328,7725			
61,4585			
194,101			
526,7685	26,860	126,6595	26,6885
Ruehlert	mit dem Jan. 1800		
128,2135	4000		
128,234	Depart pour chot		
	228,225	328,127	28,158.5
	228,326		
329,6865			
131,1285	231,224	331,021	31,058

Swal Dental Mündel vinf gläuf
Haller Runt Cich 14.5° vinf
mit dem 10. 1800

Dautigou Signe 112.45.00 w
Sty. Drey 122.11.10 r
Cabinet vinf 124.17.00 w
Dofman M 55.00 50 w
Ruehlert 40.58.00 w
Mri. Drey 58.19.45 w
Haller 6.12.00 w
Jelly 5.43.50 l
Cabinet 8.02.00 l
Dofman 10.52.00 l
Jelly 20.18.20. l
Dofman 26.51.00. l
Jelly 31.55.00 l
Jelly 34.34. - l
Dofman 46.18.50 l
Jelly 46.25.00 l
Dofman 53.04.05 l
Monney 64.49.20. l
Dofman

Jollylaggondy 65.03.20 l
 Rousy Zham 82.24.50. e
 Caratjac R 97.02 - e
 Gwily 107.52.00 e
 Jy M. Bafffuf 117.38.00 e
 Rousy Zham 112.45.00. r
 David Wright
 Rousy Zham 67.15.00 l
 Rousy Zham 57.10.30 l
 Rousy Zham 55.44.10 l
 Rousy Zham 109.00.30 l
 Rousy Zham 126.58.00 l
 Rousy Zham 141.39.00 l
 Rousy Zham 175.46.00 l
 Rousy Zham 174.28.50. w
 Rousy Zham 171.58.50. w
 Rousy Zham 169.29.50. w
 Rousy Zham 159.41.50. w

Rousy Zham 155.50.40 r
 Rousy Zham 148.07.10. w
 Rousy Zham 145.27.00 w
 Rousy Zham 135.43.40 w
 Rousy Zham 135.37.20 w
 Rousy Zham 115.13.00 w
 Rousy Zham 114.55.40 w
 Rousy Zham 82.59 - w
 Rousy Zham 72.09.10 w
 Rousy Zham 62.20.50 w
 Rousy Zham 67.15.00 l
 Rousy Zham

Glückseligkeit und der Reichtum
 (Eben 37 Goldstücke) 1.66/29/2000

Verrechnung der Einkünfte

1801	1802	1803	1804
00,000	100,008	199,894	299,939
199,502			
599,459			
199,193			
598,9175			
198,651	298,7505	398,842	98,575

Verrechnung der Ausgaben

56,224			
273,8015			
111,377	211,474	311,279	11,307

Verrechnung der Verluste

278,299			
45,214			
212,128			
379,047			
145,9625	246,0535	345,8585	45,88

Verteile der Einkünfte

342,481			
342,488			
139,009	35,6325	135,423	235,459
335,570			

Verteile der Ausgaben

132,879			
330,2295			
123,562	223,661	323,454	23,4885

Verteile der Verluste

520,799			
114,021	214,120	313,919	13,952

Verteile der Verluste

507,119	7,211	107,006	207,042
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Horizontal Winkles

Small Winkles

Kempsey	53.19.30. l
Gilbert	78.42.30. l
Belknap	11.125.00. l
Bump	119.04.30. l
Thompson	122.51. - l
Wright	129.57. - l
King	129.04.40. l
Wright	108.58.50. l
Manly	145.04.10. l
Wright	154.07.30. l
Wright	128.34.40. l
Wright	149.22.00. l
Wright	168.08.50. l
Wright	152.24.30. r
Wright	141.28.00. r
Wright	129.48.00. r
Wright	117.59.40. r
Wright	81.51.00. r
Wright	53.19.10

Small Winkles

Robert	62.01.30. l
Wright	50.16.40. l
Wright	38.34.50. l
Wright	27.58.00. l
Wright	11.48.50. r
Wright	25.50.00. r
Wright	34.24.40. r
Wright	41.00.00. r
Wright	50.02.50. r
Wright	50.59.50. r
Wright	51.24.10. r
Wright	60.54.00. r
Wright	101.17.00. r
Wright	126.41.20. r
Wright	38.34.20. l
Wright	98.10.00. l

Gebäude nach Plan
Dach signat

Rückbau (bzw.)
41.20 m 138.40 l
- 2'.5'.58" + 2'.5'.58"

Mit Plan
40.40 m 139.20 l
- 2'.57" + 3'.09"

Mit Plan
55.00 m 125.00 l
- 2'.4'.54" + 2'.5'.0"

1'.2'.21"
Mikrom. Plan

3'.50"
Plan

55.00 - 1'.2'.80" 125.41.2' 42"

h. Müller auf dem Plan
1'.4'.1"

Dach signat
82.40-2'.2' 97.20 + 2'.2'.26"

Dach im 2. Keller

W. K. Dach signat
8'.0'.12" l 171.59.25"
20 35

Dach signat
95.20 l 84.40 m
+ 2'.4'.13" - 2'.4'.21"

Dach signat
125.00 l 54.00 m
+ 2'.2'.9" - 2'.2'.40"

Dach signat
160.49 l 19.09.30

Dach signat
63.20 m 116.40 l
- 4'.42" + 5'.11"

Dach signat
7.59.54 (52) 171.59.53 (54)

Vertical 4. *aus der Höhe*
Recht
Rechtlich (aus der Höhe)
Recht " *Recht* *Object*
 2° 58' 28" 2° 58' 25"
 19 20
 18 11
 16

R. L.
 3. 17. 20 3. 17. 23
 18 20
 10 10
 11 11
Weiß Stern

3. 18. 15 3. 18. 20
 7 20
 10 11
 2. 59. 27. *Recht* 2. 59. 20.
 24 15
 19 18
aus der Höhe
 4. 41. 36 4. 41. 53
 42 50
 35 47
 38 44
 34 40

Recht 5° 0' 43" 5° 0' 43"
 42 40
 40 *aus der Höhe*
 4. 59. 45 (46) *aus der Höhe*
 4. 59. 45 (46) = 1'
Recht 2. 36. 36 2. 36. 42
 48 52
 44 52
 48 54

Recht 2. 56. 47 2. 56. 33
 42 32
 44 32

Reduktion der n. 3. 18. 20
aus der Höhe 11' 48" = 21,3
horizontal 9 L 0,05 = 16,83
gleiche Reduktion 21,3 = 39,5

Honig 4 Dm 1 Lb

Brucke Sign - 134.49.20 L

Freiburg Sign - 135.19 20 L

Brucke Sign - 158.45.10 L

Brucke Sign - 106.37.00. v

Brucke Sign - 90.56.50 r

Brucke Sign - 82.46.00. r.

Brucke Sign - 76.48 50 r

Brucke Sign - 67.46.20 r

Brucke Sign - 54.28.50 r

Brucke Sign - 39.24 20 r

Brucke Sign - 38.03 00 r

Brucke Sign - 3 48 00 r

Brucke Sign - 14.21.00. L

Brucke Sign - 10.46.50 L

Brucke Sign - 30.33 50 L

Brucke Sign - 108.25.00. L

Brucke Sign - 12 1.42.50. L

Brucke Sign - 134.49.20. L

Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

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Brucke Sign - 100,0968 / 199,887 / 299,934

Brucke Sign - 100,0968 / 199,887 / 299,934

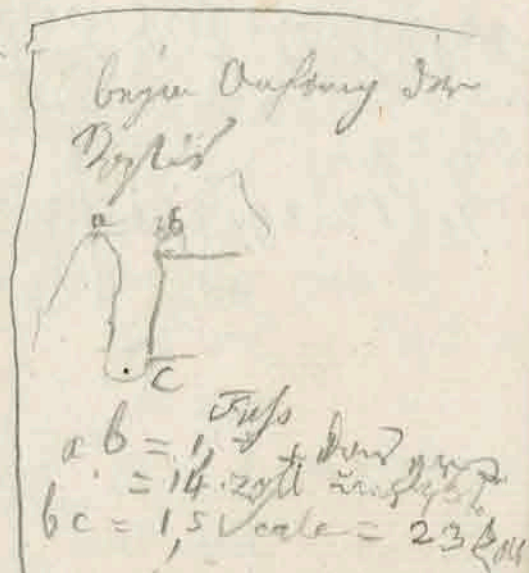
Messung am Ende der Dystid
 für Halle in Instrumente

666

Antk + 3"

30, 475

Infum



Polylong dromi 1 May 1893

44, 4385	144, 825	244, 6325	344, 665
176, 233	31, 4945		
307, 732	499		
39, 279	486		
170, 711	492		
382, 209	498		
	2, 292	102, 097	202, 128

Julian von Clavif u. Thier / Thier

302, 209	42, 433		
344, 642	42, 432		
387, 074	435		
29, 509	439		
71, 948	4395		
14, 3875	214, 4795	314, 282	14, 3065

Uen gl. 44 Instrumente gemessen in
 mit 1250 6 Instrumente und Signal 8
 Polylong 2 Instrumente Signal

114, 3875	212, 915		
325, 299	210, 903		
136, 202	910		
347, 112	903		
158, 015	9165		
68, 3255	9015		
179, 827	8995		
590, 7205	9120		
201, 6385	301, 7393	1, 5355	201, 562

1. *Polk's List*
 2. *Don't Miss*
 3. *Don't Miss*
 4. *Don't Miss*
 00,000 100,097 199,897 299,932
 189,285 189,272
 378,568 184
 167,852 128 05
 357,1325 127 55
 146,411 246,502 346,307 46,3375

Don't Miss
 146,411 242,527
 388,938 529
 251,467 529
 73,996 174,089 273,889 373,919

♀

Vert by *Albion's* *Refine*
 00,000 100,096 199,897 299,935
 208,839
 15,667
 223,500
 31,3235 134,485 231,221 331,249
 208,450
 45,579
 232,703
 59,822 159,921 259,732 359,766

2. *Don't Miss*
 59,822
 250,773
 73,741
 280,6525 380,748 80,551 180,576

Don't Miss
 388,1985 107,546
 99,251 107,5525
 203,303 552
 310,852 549
 18,405 553
 118,498 218,302 318,507

Don't Miss
 149,748 171,343
 291,088 18,340
 23,421 36,333
 163,759 36,338
 500,103 36,344
 99,9925 200,0195

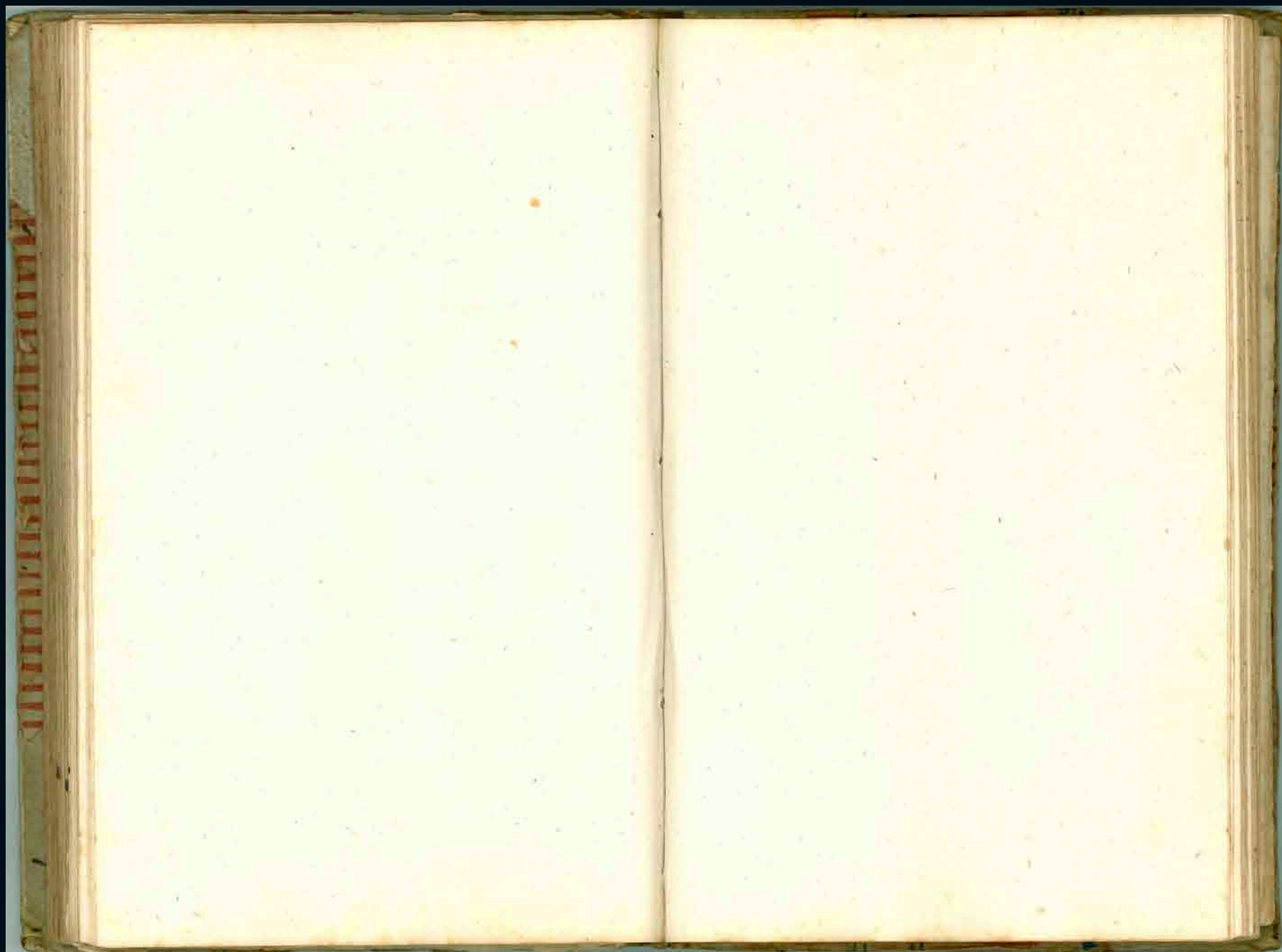
2. *Don't Miss*
 107,620
 313,153
 122,679 242,7785 322,580 22,610
 222,7775

1 2304 2 2 4
 00,000 100,099 199,898 299,900
 208,421
 16,840
 225,252
 33,672
 242,084 342,182 41,983 142,010

Plutonium (2d 1st)
 00,000 100,101 199,898 299,932
 199,671
 299,351
 199,000 299,099 398,893 98,928

refr. band over 0.001/100
 5,925
 212,847 312,944 12,745 112,473

Reduction of 3,3
Supplemental to 11,1



7. An. Neukomm
Neukomm und Mecklenburg
 $\alpha - 6.58. - 7.04. - 7.01. + 4.40$
 $\alpha + 11.42$
 18.42
 $40.11.41$
 2.20
St. Nikolaus
 $4.0.0$
 9.21
 18.42
St. Nikolaus
 3.6
 1.0
St. Nikolaus
 5.1
St. Nikolaus
 5.1
 1.0

Wolperting
 $\alpha + 19.42$
 57
 $19.59.8$
 $20.31.5$
 $10.15.7$
 $18.47.5$
 $9.23.7$

Chaparral
 $\alpha + 4.11.57$
 26
 $4.11.51.5$
 $8.03.52.5$
 $3.52.21$
 $4.01.56.2$
 $19.10.5$
 $9.55.7$

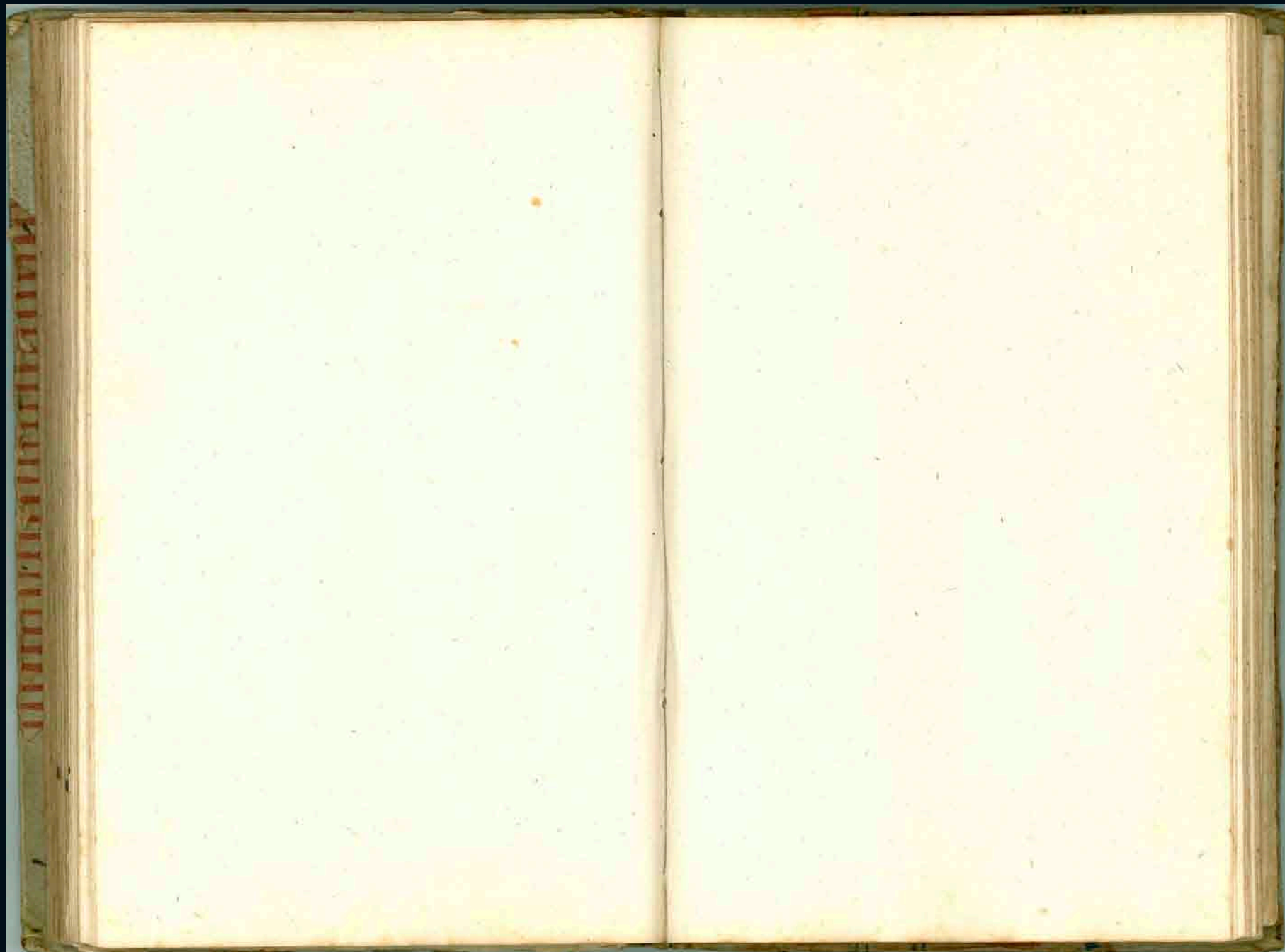
Donnerberg
 $\alpha + 2.16.54$
 42
 $2.16.48$
 $4.14.45$
 $1.57.55$
 $2.07.21.5$
 18.53
 $9.26.5$

Donnerberg
 $28.15.2$
 $M. 7.2$
 $27.1.1 - 0.6$
 $\alpha 8$
 $27.0.1 + 0.5$
 $7.16.2$
 $M. 8$
 $27.0.5 + 0.2$
 $\alpha 6.2$
 $27.4.4 + 0.7$
 0.817
 $M. 8.4$
 $27.4.5 + 0.5$
 16.25

10.4
 11.5
 13.5

alt. Meckl.
 $1.07.8$
 $1.2.12$
 $4.7.12$
 $1.1.41$
 2.2
 $1.11.3$
 $1.0.08.55$

Grand Malp. n 51.58.14. £ 148.02.12.
 Stoggy Kuch. n 65.37.12 £ 111.25.20.
 Annamalingy th n 95.01.04 £ 84.59.20.
 Deakund n 112.20.33. £ 67.59.50.
 Agr. Muttan £ 148.02.05 n 31.57.40.
 Vajek £ 85.28.10 n 94.31.50.
 Madon £ 110.08.10 n 9 51.40.
 2/3 of the year 1800 n 11/12



Agnes (L. 1.20.11) (L. 1.20.11) (L. 1.20.11)
 2. 10.05" 7' 10" 06,4
 2 + 11.18 16.
 7 | + 11.19,2 12
 21.19,9
 10.
 21.06,5 + 1.06,5
 35,2
 Therm 17,5 um 6 3/4 Uhr am
 Quellbrunnen Mus.
 Hofmann
 2. 16.05 15.44" 11 2 16.08,5
 - 4.4 15.56.
 20.55,1 16.09
 1.52.55 40 + 2.1.48
 1.53.10" + 2.1.39 1.53.01
 4.09.08,0
 22.52,5
 auf Venus 2.16.01 - 15.44.50.
 1.52.55.
 4.08.48,5

28 15 Aug
 Therm: in West in Pool at morning 4.5
 Read 90° A in shade 5.5
 Wind 4.5 Th: 6.5 Aug 97°
 Barom: 26.878
 Bryn. Aug. 19.08 Th: 5.4
 3.59.53. 42. 50. 55. 40
 4.19.52. 40. 36. 50. 42
 4.19.46.2
 20.04.2
 10.02.1
 Therm: 6.2
 Bryn. Aug. 19.08 Th: 5.4
 2.55.17 54. 54. 54
 2.55.17
 15.02
 17.47. 18.7 - 17.57.7
 7.8.1

Chaparral
 3.58.18. 05 57 08
 4.20.05. 55
 4.19.55. 52
 4.19.54.2
 8.18.00.7 51 45 46 48
 4.09.00.5
 Ther 18.66
 4.19.54. 77 55
 3.59.02. 62
 10.26.4
 20.52.5
 14.9.24.6
 14.9.24.6

[illegible]

87.6029

$f = g + h$; $g = \text{alt } 06$; $h = \text{alt } 09$;
 $h = \text{Elevation above sea level}$.

$$\frac{\cos x \cos y}{\cos x \cos y} = \frac{\cos x \cos y}{\cos x \cos y}$$

$\text{conf. Alt. Or.} = \frac{\text{In. of In. left pat.}}{1}$

$$\frac{(\cos x \cdot \sin y + \sin x \cdot \cos y)}{\cos(x+y)} = \frac{\cos x \cdot \sin y}{\cos(x+y)}$$

$\frac{d}{dt} \left(\frac{1}{2} m \dot{r}^2 + \frac{1}{2} m \dot{\theta}^2 r^2 \right) = 0$

2nd Asmuth / New England / 1840

920 46.49.15.5
 921 46.44.34.5
 922 46.49.15.5

$105.44.20 = 105.44.20$

$821 \frac{1}{2} - 4000 = 57.03.27$
 Asm. has 5 mg. 8. 1/2 mg. 1/2

Account of the

A close-up of a manuscript page showing a line of text in a Gothic script, with a large initial 'C' and a red rubric.

6'c'd, 1000 1000 1000
a 1000 1000 1000
1000 1000 1000
1000 1000 1000

$18 \text{ } ^1/1 = 19$
 $6 \text{ } ^1/1 = 6$
 $7 \text{ } ^1/1 = 7$

$\frac{1}{2} = 50$
 $\frac{1}{3} = 33$
 $\frac{1}{4} = 25$
 $\frac{1}{5} = 20$
 $\frac{1}{6} = 16\frac{2}{3}$
 $\frac{1}{7} = 14\frac{2}{7}$
 $\frac{1}{8} = 12\frac{1}{2}$
 $\frac{1}{9} = 11\frac{1}{9}$
 $\frac{1}{10} = 10$
 $\frac{1}{11} = 9\frac{1}{11}$
 $\frac{1}{12} = 8\frac{1}{3}$
 $\frac{1}{13} = 7\frac{6}{13}$
 $\frac{1}{14} = 7\frac{1}{7}$
 $\frac{1}{15} = 6\frac{2}{3}$
 $\frac{1}{16} = 6\frac{1}{8}$
 $\frac{1}{17} = 5\frac{8}{17}$
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 $\frac{1}{97} = 1\frac{1}{97}$
 $\frac{1}{98} = 1\frac{1}{49}$
 $\frac{1}{99} = 1\frac{1}{99}$
 $\frac{1}{100} = 1$

I have not much to say of the
 country, except that it is very
 fertile, and the people are
 very happy.

known as the "Black and White" of the
Ordinary and the "Black and White" of the
Lords of the Manor. The first of these

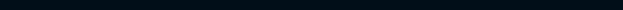
*The above is
the name of some
one who has been
in the office, having the 100 in his hands*

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$\frac{0}{0} = 0$

$A = \text{corresponding element}$

of the Oriental Bazaar from the street, and
the new building.



1850
J. J. J. J. J.

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100 + 1.515
 = 100 + 1.515
 100 + 1.515

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|-----|-----|--------|------|----------|
| 153 | 300 | 5187,7 | 6,72 | 183,5525 |
| 154 | 260 | 5180,7 | | |
| 155 | 240 | 5207,7 | | |
| 156 | 260 | 5253,7 | | |
| 157 | 250 | 5258,7 | | |
| 158 | 260 | 5284,7 | | |
| 159 | 245 | 5309,2 | | |
| 160 | 240 | 5330,2 | | |
| 161 | 230 | 5356,2 | | |
| 162 | 230 | 5379,2 | | |
| 163 | 230 | 5402,2 | | |
| 164 | 225 | 5424,7 | | |
| 165 | 230 | 5447,7 | | |
| 166 | 240 | 5471,7 | | |
| 167 | 250 | 5496,7 | | |
| 168 | 215 | 5518,2 | | |
| 169 | 215 | 5539,7 | | |
| 170 | 215 | 5561,2 | | |
| 171 | 215 | 5582,7 | | |
| 172 | 215 | 5604,2 | | |
| 173 | 225 | 5626,7 | | |
| 174 | 215 | 5648,2 | | |
| 175 | 195 | 5669,7 | | |
| 176 | 200 | 5687,7 | | |
| 177 | 190 | 5708,7 | | |
| 178 | 180 | 5724,7 | | |
| 179 | 190 | 5745,7 | | |
| 180 | 190 | 5762,7 | | |
| 181 | 140 | 5776,7 | | |
| 182 | 140 | 5796,7 | | |
| 183 | 155 | 5806,2 | | |
| 184 | 165 | 5822,7 | | |
| 185 | 165 | 5859,2 | | |
| 186 | 165 | 5858,7 | | |
| 187 | 200 | 5875,7 | | |
| 188 | 170 | 5892,7 | | |
| 189 | 185 | 5918,2 | | |
| 190 | 210 | 5932,2 | | |
| 191 | 250 | 5957,2 | | |

6,72 186,9128

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180,10
180,10

6,74 173,5226

6,70 166,79 25

6,73 160,06 24

6,72 153,5525

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|-----|-----|--------|--|--|
| 192 | 210 | 5978,2 | | |
| 193 | 260 | 4004,2 | | |
| 194 | 220 | 4026,2 | | |
| 195 | 230 | 4049,2 | | |
| 196 | 215 | 4070,7 | | |
| 197 | 210 | 4091,7 | | |
| 198 | 220 | 4113,7 | | |
| 199 | 220 | 4135,7 | | |
| 200 | 235 | 4159,2 | | |
| 201 | 250 | 4184,2 | | |
| 202 | 260 | 4206,2 | | |
| 203 | 260 | 4236,2 | | |
| 204 | 280 | 4264,2 | | |
| 205 | 285 | 4293,7 | | |
| 206 | 220 | 4319,7 | | |
| 207 | 280 | 4344,7 | | |
| 208 | 270 | 4374,7 | | |
| 209 | 235 | 4398,2 | | |
| 210 | 250 | 4423,2 | | |
| 211 | 260 | 4449,2 | | |
| 212 | 265 | 4478,7 | | |
| 213 | 270 | 4503,7 | | |
| 214 | 280 | 4535,7 | | |
| 215 | 290 | 4562,7 | | |
| 216 | 280 | 4590,7 | | |
| 217 | 270 | 4617,7 | | |
| 218 | 280 | 4645,7 | | |
| 219 | 240 | 4669,7 | | |
| 220 | 240 | 4693,7 | | |
| 221 | 240 | 4717,7 | | |
| 222 | 240 | 4741,7 | | |
| 223 | 230 | 4764,7 | | |
| 224 | 230 | 4784,7 | | |
| 225 | 210 | 4808,7 | | |
| 226 | 225 | 4830,2 | | |
| 227 | 225 | 4853,7 | | |
| 228 | 210 | 4874,7 | | |
| 229 | 220 | 4896,7 | | |
| 230 | 200 | 4916,7 | | |
| 231 | 200 | 4936,7 | | |

6,71 122,1234

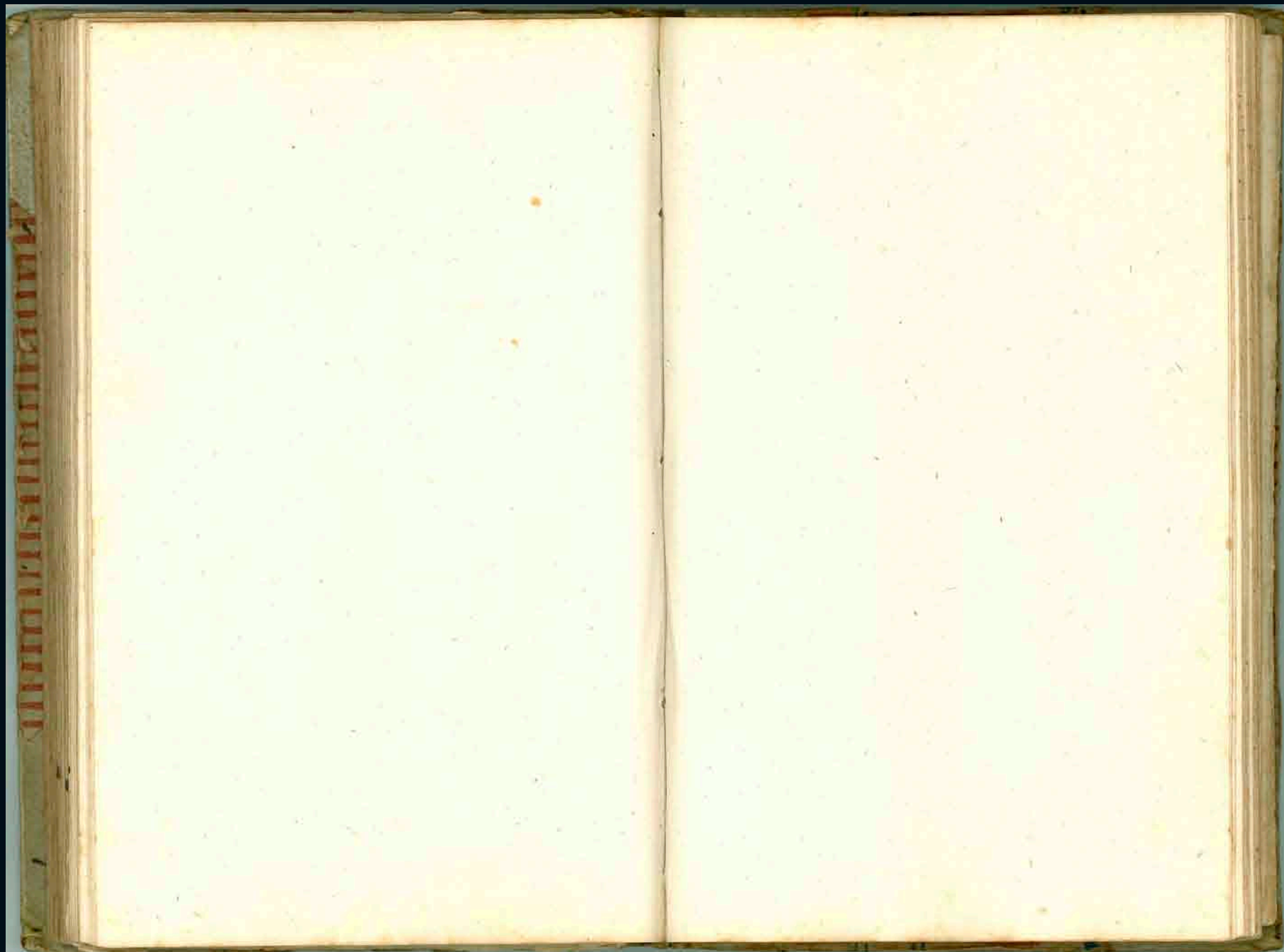
6,73 220,41,53
100,14067
100,14067

6,72 213,5226

6,70 206,96 21

6,69 200,26,50
100,14067

6,68 193,57,29



Donnée Du même lieu pour l'année
 1797. Août 12^e 147.02.54

| | |
|-----|--------|
| 314 | 3.08 |
| 14 | 2.55 |
| 14 | 3.00,1 |
| 14 | 3.17 |
| 14 | 2.53,8 |
| 14 | 3.17. |
| 18 | 3.42 |

47.05.04⁵

Différences Elements de Calcul
 pour la Latit. d'Alau mil. de g. latit = 47.23.31,0
 Longitude supposée 5.36. = 0,0155 π 8
 Log fin latit = 9.8668801 = Log cos cotat.
 C: — — — = 0.1331199 = C: — — —
 — cos — = 9.8305742 = — fin —
 C: — — — = 0.1694258 = C: — — —

Longitude donnée p. M. L. 5.38.48. = 22.75.12

Extr. de l'atm. de M. L. P. d'Alau du 6.9.1793

Aus: mes calc. des Obs. de l'Eclipsé du 3.4.1791.

d'Greenwich et d'Alau la Diff. des mers: entre le 1. d'Alau et

Obs. rep. de Paris & d'Alau est de 20^m 28,8 en tems en

supp. celle de Gr. & Paris de 9^m 20^s. Mais en supp. la

conje. vraie d'Alau à 0^m 31^m 22^s come M. L. Lat. la

calc: je trouve 20^m 28,3 je crois l'autre pas: pres: les

Calc: étant faits avec les mêmes Elem: La Lat. de la

Mais: que j'ai été est de 46.56.55,5 qui sera: exacte

jusqu'à la valeur qui pourra: apporter la Diff. de l'Ép. et

climatique de la Table de l'Ép. cor: le Paris et l'Alau:

Mais je crois pas qu'elle varie 2^e.

Des 12.12.1793

Diff. d'Alau & Paris = 21.36. Ar. u:

et fin latit 0,0150

et cor: L = 0,015

1793
 20
 1226
 86400

| | | |
|---------------|---------------|-----------|
| 20 gr 2 | 35 1/2 | 18 gr |
| 41 1/2 | 56 1/2 | 41 |
| <u>21 1/2</u> | <u>21 1/2</u> | <u>22</u> |
| 22 | 21,5 | |
| 23 | 22 | |
| | 21 | |

| | | |
|----|---------------|------|
| 24 | 41 | 1 gr |
| 24 | 2 1/2 | |
| | <u>21 1/2</u> | |

L'éclipse de C a été invisible ici. Mr Wild n'a communiqué ses obs
de l'éclipse du C. du 51 Janv Com à 11^h 46^m 02,4 Fin 0^h 55^m 59^s Temps apparent
La Latitude de sa maison à Bex est de 46° 14' 45" d'après les Obs faites
avec son nouveau Sextant de Cary
J'ai observé très bien le Comencement à 11^h 47^m 09,8 Fin 1^h 00^m 36,5
aussi Temps apparent Vous connaissez ma Lat & Longit. (Demandes
à Mr Zach ce que son Chronom lui a donné pour la Long de Berne, il
a observé ici - il y a un erreur d'impression dans les Ephémérides
de Bades (ou il a communiqué ses Obs en Suisse) quant à Lausanne
recherchez cela si l Vous plaît. Je sais que c'est dans l'année 1791,
1792 ou 93 & demandez la durée de la Comète

| | | |
|--------------|---------------|-----------------|
| 47 gr | 30 1/2 | 55 1/2 |
| <u>9</u> Dep | <u>16 1/2</u> | <u>16 1/2</u> d |
| 22 | | <u>21 1/2</u> |
| 31 | 39 1/2 | gr 50 |
| <u>12</u> | <u>1</u> | <u>11</u> |
| | 21 1/2 | 0 |

24 51 1 gr
 24 2 1/2
 21 1/2

Je pense
 si je ne l'ai pas indiqué directement.
 l'Observatoire de Göttinge semble être en état de Révolution
 conduite de ceux qui illégalement s'en veulent approprier les
 primes est scandaleuse. On a de la peine à s'imaginer jusqu'à
 quel point les petites passions peuvent porter que le Ciel nous recueille
 des grandes. Je souhaite bien que celui de Göttinge ne
 soit la Victime des Jalousies & qu'il me fait plaisir
 de vous en parler & parer les piques
 Je le trouve bien juste & raisonnable que Vous alliez à la
 diplomatie & ses Connaissances cet été. Les mathématiques
 & les études qui Vous doivent occuper exclusivement
 nous faire gagner notre

49 gr 30 1/2 55 2
 9 Dep 16 1/2 16 1/2 d
 22 21 1/2
 31 39 1/2 gr 56
 27 1 11
 21 1/2 0

279
 26 53
 253 = 13 8 9

Zu Tri Kofen ^{Tri Kofen}

95

Leatit fndr und Anfangs signal

00,000. 100,096. 199,897. 299,932
 2 34,6635.
 4 69,3365; 169,4285. 269,229. 369,261
 69,3325 69,3315 69,329
 mehr 69,3329 — 17,3331

6. 104,9115
 8. 138,687.
 10 173,362 ; 273,459; 373,259; 473,2865
 104,0255 ; 104,0305; 104,030 ; 104,0255

6 ¹¹¹⁵ 104,0279 = 17,33798
 8 173,359 273,454, 373,2555; 473,283

12 381,4345 81,527 181,3265 281,3545
 12 208,0755 ,073 ,0710 208,0715

0710
 073
 0755

und all 17,3377
 17,3377
 15,60393
 36,2358
 14,148

1.10
 208,07275
 17,33939

Basiss anfang in Grot

$$\begin{array}{r}
 2 \quad 381,4345 \\
 \quad 30,513 \\
 \hline
 4 \quad 49,0785 \\
 \quad 79,5995 \\
 \quad 49,0865 \\
 \hline
 128,6885 \\
 \quad 49,0798 \\
 381,4345 \quad 81,527 \quad 121,3265 \quad 281,3545 \\
 325,0015 \quad 25,0985 \quad 124,8985 \quad 224,9295 \\
 \hline
 343,5665 \quad 343,571 \quad 343,5720 \quad 343,575 \\
 \quad \quad \quad \quad 572 \\
 \quad \quad \quad \quad 571 \\
 \quad \quad \quad \quad 5665 \\
 \quad \quad \quad \quad 45 \\
 \hline
 343,5711
 \end{array}$$

$7 = 343,5711$
 $2 = 49,0816$

Basiss fuder in Min. Aor

$$\begin{array}{r}
 2 \quad 275,356 = 50,355 \\
 12 \quad 227,088; 327,1785; 26,986; 127,0125 \\
 \quad 302,088; 303,0805 \quad 30875 \quad 2,0820 \\
 \quad \quad \quad \quad 75 \\
 \quad \quad \quad \quad 05 \\
 \quad \quad \quad \quad 7 \\
 \quad \quad \quad \quad 180 \\
 \hline
 302,0845 \\
 2L = 50,3474
 \end{array}$$

Basiss fuder in Grot 148,42,40

Basiss fuder in Grot 103

Basiss fuder in Grot 212,32,30

Basiss fuder in Grot = 2,0

Basiss fuder in Grot

Basiss fuder in Grot 0,3

Basiss fuder in Grot

Basiss fuder in Grot

| 1 | 2 | 3 | 4 |
|----------|----------|----------|---------|
| 00,000 | 100,0945 | 199,8975 | 299,993 |
| 191,267 | | | |
| 382,5385 | | | |
| 170,800 | | | |
| 365,078 | 65,163 | 164,9655 | 265,000 |
| 157,251 | | | |
| 349,499 | | | |
| 141,612 | 241,716 | 341,511 | 41,542 |

Vertical 5, 2, 1, 0

Horizontal $\frac{1}{4}$ Rn (1/4)

Dunkign 59.37.50

Willing 59.15.20.

Willing 145.58.00

St. John's Reduct. 156

Andon Bridge 216.30

Willing 239.16.50

Willing 239.41.00

Willing, 5, 1, 25

— 5, 3, 3 = 8 1/2

Andon London Bay

Willing 54.15.20

Willing 54.15.20

Willing 54.15.20

| | | | |
|----------|----------|----------|----------|
| 00,000 | 100,0975 | 199,8965 | 299,7932 |
| 142,956 | | | |
| 285,9065 | | | |
| 28,855 | 128,946 | 228,751 | 328,782 |

Willing 54.15.20

| | | | |
|---------|----------|---------|---------|
| 92,534 | | | |
| 156,202 | | | |
| 249,877 | 319,9725 | 19,7725 | 119,799 |

Willing 54.15.20

| | | | |
|---------|---------|---------|---------|
| 259,429 | | | |
| 298,982 | | | |
| 558,541 | 38,632 | 138,436 | 238,464 |
| 136,073 | | | |
| 336,612 | | | |
| 131,153 | 231,249 | 51,043 | 31,074 |

Vertical by Paper
 181,153 231,249 331,043 31.074
 225,3175
 19,490 219,591 319,387 19,415
 Vert. by Paper

312,556
 105,6135 205,713 305,8155 5,543

Horiz. 12. 12. 12. 12.

Zinsfuß in d. M. 275.59.10

Donner Zinsfuß in d. M. 272.37.50

W. J. P. 212.32.50.

G. 201.38.10.

M. 182.54.50

Donner mit d. M. 170.10.40.
 171.20.10

Abrechn. auf d. M. 168.16.20

für d. Abrechn. auf d. M. 162.04.20.

Zins. 159.22.-

Abrechn. auf d. M. 157.41.10

Abrechn. auf d. M. 153.57.00

Donner mit d. M. 153.57.00

Abrechn. auf d. M. 100,000 100,097 199,897 299,936
 82,613
 105,224
 47,832 343,932 47,7295 147,758

Donner und Zinsfuß in d. M. 110,189 210,284 310,089 10,112

Vertical by Paper
 282,073
 53,9525 154,053 253,849 353,855

Vertical by Paper
 231,806
 9,665 109,163 209,558 309,592

Vertical by Paper
 214,44 314,502 14,302 114,361

Spinnweb 4,5" Durchmesser = 1,3^m

$$29 \times 2^m + 1,5 = 59,5 \text{ (Pf.)}$$

5,05 Spinnweb

3,9 — — — — — 4,6m Durchmesser

absp. d. Spinnweb 3,9m

absp. d. Spinnweb 3,9m
Drehwerk = 6,95^m

Einmalige Drehwerk

in Japan
 1860
 1861
 1862
 1863
 1864

220,912
 41,982
 262,735
 93,649
 304,585

100,096
 220,912
 41,982
 262,735
 93,649
 304,585

Vertical L by
 1860
 1861
 1862
 1863
 1864

92,353

280,134

67,914

255,700

355,799

55,898

355,625

28,994

201,891

574,982

174,877

75,074

274,905

375,160

75,253

175,053

275,087

| Dannumkur | | Wunden | 25/2 | 317 July 1800 |
|-----------|------|--------|------|---------------|
| ol | maß | R | 25/2 | Repart |
| 27-11,1 | -7,9 | 13,3 | 8 | 25.03 |
| -11,05 | -8,0 | 14,0 | 9 | |
| -11,0 | -8,0 | 15,0 | 10 | |
| -11,15 | -8,0 | 15,0 | 11 | |
| -10,9 | -8,1 | 15,8 | 12 | |
| -10,85 | -8,0 | 16,6 | 1 | |
| 11,0 | -8,1 | 17,6 | 2 | |
| 10,9 | -8,0 | 17,8 | 3 | |
| Dito | | | | 318 July 1800 |
| 10,85 | 7,7 | 14,2 | 8 | |
| 10,78 | 7,6 | 15,8 | 9 | |
| 10,8 | 7,9 | 15,8 | 10 | |
| 10,6 | 7,7 | 17,3 | 11 | |
| 10,63 | 7,9 | 18,1 | 12 | |
| 10,85 | 8,0 | 18,0 | 1 | |
| 10,8 | 7,9 | 18,3 | 2 | |
| 10,85 | 8,1 | 18,9 | 3 | |

| Zen Perikopi | | | |
|--------------------------|---------|----------|----------|
| 11,552 | 332 | | |
| 294,884 | 330 | | |
| 98.214 | 198,307 | 298,108 | 398,137 |
| Jopannumt in der Fallm 2 | | | |
| 98,214 | 198,307 | 298,108 | 398,137 |
| 308,7805 | 219,565 | | |
| 119,342 | .5615 | | |
| 329,9125 | .5695 | | |
| | 30,000 | 129,8025 | 229,8385 |
| 4,6995 | 34,693 | 31,6945 | 631,7015 |
| 149,4175 | .565 | | |
| 551,048 | .5705 | | |
| 161,603 | .555 | | |
| 372,180 | .5775 | | |
| | 42,275 | 172,078 | 272,107 |
| 842,2675 | 842,275 | 842,2755 | 842,2685 |
| 75 | | | |
| 755 | | | |
| 685 | | | |
| 65 | | | |
| 842,2716 | | | |

100,000 100,007 199,8975 299,933
 10,582 ,575
 21,157 ,574
 231,731 331,821 31,623 131,655
 309,4225 320,252 20,0525 120,089
 220,1595 293,9025 73,943
 303,630 73,7275
 41,368 738
 113,107 739
 188,843 736
 228,9405 388,743 88,970
 320,020 131,186
 51,205 31,174
 182,379 176
 313,561 182
 441,7585 1725
 144,8325 244,6325 344,663

Auf Drunkigen 17^{ten} July 1800
 1. 2. 3. 4.
 00,000 100,096 199,8935 299,932
 33,114 33,114
 66,222 108
 99,337 115
 132,449 112
 165,558 107
 198,669 113
 231,771 102
 264,8875 364,981 64,7825 164,8155
 .885 .8890 .8835
 297,813 32,9255
 330,7485 .9355
 363,6825 .9340
 396,6005 .9185
 29,542 9315
 62,466 924
 95,400 934
 128,332 932
 263,4445 228,4205 328,2225 28,2545
 4395 4400 .4390

| Zurücklegen Punkten | | | |
|----------------------------|----------|----------|---------|
| 128,332 | 4205 | 2225 | 2545 |
| 260,9895 | 1226575 | | |
| 292,634 | 6445 | | |
| 25,293 | 659 | | |
| 258,947 | 654 | | |
| 391,605 | 658 | | |
| 124,256 | 651 | | |
| | 224,352 | 324,1545 | 24,182 |
| 5.924 | 9315 | 9320 | 9285 |
| Zenith in Paris Ende d. J. | | | |
| 0.000 | 100,098 | 199,894 | 299,932 |
| 211.452 | | | |
| 22.907 | | | |
| 234.369 | | | |
| 45.804 | 145.9035 | 245,500 | 345,738 |
| Zen in Paris Ende d. J. | | | |
| 257,243 | 439 | | |
| 68.6825 | 4395 | | |
| 280,114 | 4315 | | |
| 91.552 | 438 | | |
| | 191,643 | 291,444 | 391,473 |

aufgezogen mit 12. 2. Verlos

Sachverordn. d. Pf. 97.23,5 und 97.21

— Loh Pf. 98.30,0 —

Dont de Beaume, Dole? 11. 51,3

— — Hafent 102,06,0

Dire u Beaume 43.42,7

Quay d. Br. — 51.04,8

— — 57.28,2

Zu Was Auf

II 29,148

IV 231,202 ; 331,297 ; 31,098 ; 131,131

Zu Was Ende

II. 33,569

IV 235,936 336,029 ; 35,827 ; 135,861

Zu Gärten Vj

II. 33,633 ;

IV. 231,335 ; 331,431 ; 31,233 ; 131,2635

Zu Münster Horn

n 32,636

232,9325 ; 332,021 ; 33,827 ; 132,8605

232,407 333,503 33.306 133,338

Diff
gub

9,521 522

231,492 331,584 31,393 131,416

gubump 1,915 1,919 1,913 1,922

Brandiger in Gurten

II 231,492 391,584; 31,393 131,416
 X 356,112 2L = 124,620
 54,573 154,668; 254,469 354,503
 623,081 623,0845; 623,076 223,087
 ,0875 +4 ,090

Brandiger Bumpitz Kirche

II 226,128 , 2L = 171,555
 IV 397,687; 97,784; 197,588; 297,616
 343,114 343,1135 343,119 343,110

268,6
 274,0
 129,0

129,08
 21'9"
 24'9 3/4"

Signal Stand 10,75
 Signal Stand 10,75
 Signal Stand 10,75
 Signal Stand 10,75
 Signal Stand 10,75

Ferdinand Rudolf Hassler

Field Book 1 • 1791–1800

Source: Swiss Federal Archives, E 27/222115

Ink and pencil, bound, not paginated

Digitally prepared by the Swiss Federal Office of Topography swisstopo, 2007

Hassler used the two field books for the written on-site annotation of his observations (baseline measurements (e.g. [218]–[203]), measurements of angles (e.g. [148]–[149]), astronomical observations (e.g. [70]–[71]), levellings (e.g. [153]–[147]), barometrical observations (e.g. [23]), notes (e.g. [126], etc.). His designation «Journal» (Field Book 1, page [218]) underlines the note-like character of the two field books as well as the fact that he started to write them from the front and back. Furthermore, some loose-leaf sheets were attached. Besides Hassler's own handwriting, one also recognizes those of his assistants.

Because these two field books are among the oldest documents relating to the survey of Switzerland, it looked appropriate to prepare them electronically and to make these sources available digitally. The pdf files strive for an original representation of the field books, as they are physically. To be able to make precise references, the pages were paginated. For Field Book 1, the cover page numbered with «No. 1.» was considered correct. This number was presumably added in July 1805 during the inventory of the documents which were left by Hassler when he emigrated to the United States of America (State Archives of the canton Aargau StAAG, R01. IA04 [1751–1813], Nr. 24). Therefore, Field Book 1 starts with the measurement from August 26, 1792, and the baseline measurement between Walperswil and Sugiez (cantons of Berne and Freiburg), which took place already in 1791, does not start until page [218]. Because they are also written upside down, one has to count back to the end which is approx. on page [203]. The pages which were glued in were scanned both folded and unfolded and were paginated with the letters «a, b,» etc. To minimize the data volume, a larger number of consecutive blank double pages were represented by only one placeholder, which, however, was not re-scanned. The blank pages were taken into account in the pagination.

July 3, 2007/Martin Rickenbacher

