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Katalog der Örter und Eigenbewegungen der Doppelsterne des nördlichen Himmels

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von

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Einleitung

In einer vorhergehenden Abhandlung aus dem Jahre 1935 über den „Geschwindigkeitskörper der Schwerpunktsbewegungen der Doppelsterne des nördlichen Himmels" (Abhandlungen der Bayerischen Akademie der Wissenschaften, mathematisch-naturwissenschaftliche Abteilung, Neue Folge, Heft 31, 1935) habe ich als Grundlage der Untersuchung eine Zusammenstellung der Eigenbewegungen und ihrer Positionswinkel von 3800 Doppelsternen des nördlichen Himmels bekannt gegeben. Mit der Ableitung der Eigenbewegungen war notwendig eine Ableitung der Örter und der äquatorealen Komponenten der Eigenbewegungen verbunden, die nunmehr in der folgenden Abhandlung zusammengestellt sind, um weiteren praktischen Bedürfnissen und stellarstatistischen Untersuchungen als Basis zu dienen.

Wie bereits in der soeben genannten Abhandlung dargelegt ist, bildete das umfangreiche Material der „Geschichte des Fixsternhimmels" der Preußischen Akademie der Wissenschaften die wesentliche Basis für die Ableitung der Örter und der E.B.-Komponenten. Das Material wurde aber darüber hinaus durch die neueren Kataloge bis zur Gegenwart (1934) ergänzt, da die Epochen der Örter der „G. F. H." nur bis zum Anfange dieses Jahrhunderts reichen. Da der „Preliminary General Catalogue" von Boss ebenfalls nur bis zum Anfange des Jahrhunderts reicht, wurden die in diesem Kataloge enthaltenen Doppelsternörter und E.B. neugerechnet, wenn seitdem eine Reihe neuerer Örter vorlag. Dasselbe gilt gegenüber dem „Catalog of 4683 Stars for the Epoch 1900" von Smith-Porter in Nr. 19 der „Publications of the Cincinnati Observatory". Teilweise sind auch Stromsterne tabuliert worden, wenn sie auch für die Apex- und Vertexbestimmung keine Verwendung gefunden haben.

Die Berechnung der Örter und E.B.-Komponenten erfolgte nach der Methode der kleinsten Quadrate. Als Nullpunkt des Äquinoktiums und der Epoche wurde der Moment 1875 gewählt, weil einmal die Örter der „G. F. H." alle auf das Äquinoktium 1875 bezogen sind und ferner das Epochenmittel allgemein nahe bei 1875 gelegen ist, wie aus den Epochenangaben im unten folgenden Kataloge zu ersehen ist.

§ 1. Die Genauigkeit der Örter und E. B.

Die Berechnung der Genauigkeit der Örter und der E.B.-Komponenten beruht auf den folgenden Erwägungen. Die neueren Meridianbeobachtungen der Doppelsterne erhielten aus den schon in der früheren Abhandlung auseinandergesetzten Gründen kein höheres Gewicht gegenüber den älteren Messungen. Das Gewicht eines Doppelstern-Katalogortes wurde nur nach der Zahl der Einzelmessungen gestaffelt, wobei nur zur Bequemlichkeit der Rechnung einem auf 10 Einzelbeobachtungen beruhenden Katalogorte das willkürliche Gewicht 1 erteilt wurde; die wirklich vorkommende Anzahl der Einzelbeobachtungen liegt zwischen 2 und 6, so daß das Mittel bei 4 gelegen ist, so daß die Gewichtsunterschiede der Katalogörter bei demselben Stern meist keine großen Differenzen gegen den Mittelwert 0.4 erreichen. Katalogörter, die nur auf einer einzigen Beobachtung beruhen, wurden meist gestrichen, und solche, die ausnahmsweise auf mehr als 10 Einzelmessungen beruhen, behielten das Gewicht 1, im Einklange mit der Erfahrung, daß eine größere Zahl von Einzelmessungen am Meridiankreise die Genauigkeit des Mittels tatsächlich nicht mehr zu erhöhen vermag. Die im Interesse der Genauigkeit gelegene Anbringung von systematischen Korrektionen an die einzelnen Katalogörter geschah nur bei Vorhandensein von 5 und weniger als 5 Katalogörtern, um dadurch bei zu wenigen Katalogen und deshalb mit meist geringeren Epochendifferenzen verbundenen Örtern eine sichere E.B. zu gewährleisten. Bei mehr als 5 Örtern wurde allgemein auf eine Anbringung von Korrektionen verzichtet, außer in Einzelfällen bei auffallend irregulär schwankenden Örtern grade von Doppelsternen. Eine allgemeine Anbringung der Korrektionen war besonders deshalb nicht ratsam, weil für die neueren Kataloge noch keine systematischen Verbesserungen bekannt sind, zumal in bezug auf die Doppelsterne, also eine einseitige Anbringung an die älteren Örter allein zu vermeiden war. Es ist zu hoffen, daß später eine allgemeine Verbesserung möglich sein wird, sobald der neue A.-G. und andere Kataloge sowie die zur Zeit in Arbeit befindlichen amerikanischen Kataloge vorliegen werden. Dafür wird die vorliegende erstmalige Ableitung der Eigenbewegungen von Nutzen sein. Vorläufig ist das Mittel aus den älteren und zum Teil neueren Fundamentalkatalogen als das Bezugssystem des vorliegenden Kataloges anzusehen.

Die numerische Genauigkeit der Örter und E.B.-Komponenten wurde wie folgt abgeleitet. Wohl wurden für jeden einzelnen Doppelstern die mittleren Fehler des Ortes wie der E.B.-Komponenten in beiden Koordinaten nach der Methode der kleinsten Quadrate ermittelt, ebenso wie der mittlere Fehler einer Gleichung vom Gewicht 1. Im Generalkataloge ist aber davon abgesehen worden, die individuellen Fehler $\varepsilon(\alpha)$, $\varepsilon(\delta)$, $\varepsilon(\mu_\alpha)$ und $\varepsilon(\mu_\delta)$ anzugeben, wie es in manchen der neueren Kataloge geschehen ist; denn der mittlere Fehler einer Gleichung ist von Stern zu Stern derartig schwankend, in A.R. zwischen $\pm 0^s.010$ und $\pm 0^s.100$, in Dekl. zwischen $0''.10$ und $\pm 1''.00$, zumal bei der im allgemeinen nur mäßigen Anzahl von Gleichungen, d. h. Katalogörtern für den einzelnen Stern, daß die Angabe des individuellen Fehlers jedes einzelnen Sterns kein richtiges Bild der Fehler vermittelt und deshalb besser zu vermeiden ist. Ich halte es für zweckmäßiger, auf Grund des aus dem ganzen Material errechneten mittleren Fehlers einer Gleichung vom Gewicht 1 den entsprechenden durchschnittlichen mittleren Fehler der Unbekannten, d. h. der Örter der Epoche und der E.B.-Komponenten, gruppenweise nach der Deklination geordnet, als Funktion der Epochendifferenz bei jedem Stern und der Anzahl der benutzten Kataloge d. h. Gleichungen zu bestimmen. Dafür ist die Annahme eines Modells von Gleichungen notwendig, das bei einer größeren Zahl von Gleichungen den Beobachtungen entspricht. Es möge angenommen werden, daß bezüglich der Verteilung der einzelnen Kataloge über die Epochendifferenz bei jedem Stern eine zeitlich gleichmäßige Verteilung stattfindet; zugleich möge das Gewicht aller Gleichungen 1 sein. Aus den Koeffizienten der Unbekannten ist dann nach den Prinzipien der Methode der kleinsten Quadrate das Gewicht der Unbekannten zu ermitteln; der aus dem ganzen Material schon bekannte mittlere Fehler ε einer Gleichung vom Gewicht 1 vermittelt dann den mittleren Fehler der Unbekannten. Die angenommene symmetrische Verteilung der Beobachtungen bewirkt, daß der mittlere Fehler der Unbekannten ein Minimum, die Gewichte also ein Maximum werden, zumal auch jeder Gleichung das Höchstgewicht 1 erteilt wurde. Gegenüber der Wirklichkeit stellen diese Fehler also die untere Grenze dar, die von der Wirklichkeit nicht unterschritten werden kann.

Es seien k Katalogörter eines Sterns, also k Gleichungen vorgelegt, verteilt über die Epochendifferenz t, so daß t in $k-1$ gleiche Teile $r = \frac{t}{k-1}$ zerlegt sei. Das Mittel aller Epochen der einzelnen Kataloge sei t_0, und α_0 und δ_0 die entsprechenden Koordinaten in A.R. und Deklination; die Geschwindigkeitskomponenten derselben seinen $\alpha_0' = \mu_\alpha$ und $\delta_0' = \mu_\delta$. Bei einer ungeraden Zahl k von Gleichungen entspricht dem Mittelwert t_0 eine Gleichung, die gerade in der Mitte liegende Gleichung, nicht aber bei gradem k, weshalb die Rechnung zuerst für ein ungrades k ausgeführt werde. Ist t_i ein beliebiger der k Zeitpunkte, so lautet die allgemeine Gleichung:

$$\alpha_0 + (t_i - t_0)\,\alpha_0' = b_i, \quad i = 1, 2 \ldots k, \tag{1}$$

wo b_i die beobachtete A.R. angibt. Mit Rücksicht auf unsere Einteilung der Epochendifferenz t lauten die Bedingungsgleichungen dann wie folgt:

$$\left\{\begin{array}{l}
\alpha_0 - \frac{1}{2}(k-1)\,r\,\alpha_0' = b_1 \\
\alpha_0 - \frac{1}{2}(k-3)\,r\,\alpha_0' = b_2 \\
\text{———————} \\
\alpha_0 - \frac{1}{2}\cdot 2\cdot r\,\alpha_0' = b_{\frac{1}{2}(k-1)} \\
\alpha_0 \qquad\qquad\qquad\qquad = b_{\frac{1}{2}(k+1)} \\
\alpha_0 + \frac{1}{2}\cdot 2\cdot r\,\alpha_0' = b_{\frac{1}{2}(k+3)} \\
\text{———————} \\
\alpha_0 + \frac{1}{2}(k-3)\,r\,\alpha_0' = b_{k-1} \\
\alpha_0 + \frac{1}{2}(k-1)\,r\,\alpha_0' = b_k
\end{array}\right. \tag{2}$$

Die Anwendung der Methode der kleinsten Quadrate ergibt dann die beiden Normalgleichungen

$$(3) \qquad \left\{ \begin{array}{l} k \cdot \alpha_0 = (b)_1 \\ \frac{1}{2} r^2 \cdot S \cdot \alpha_0' = (b)_2 \end{array} \right\}$$

wo die rechten Seiten mit $(b)_1$ und $(b)_2$ für die Gewichtbestimmung gleichgültig sind und wo der Faktor

$$S = (k-1)^2 + (k-3)^2 + \cdots + 4^2 + 2^2 = \frac{1}{6} k (k^2 - 1).$$

Dabei sei vermerkt, daß die 1. Gleichung auch bei nicht gleichmäßiger Verteilung der Beobachtungen über die Epochendifferenz gilt. Infolge der im vorliegenden Falle besonders einfachen Form der Normalgleichungen werden die Gewichte von α_0 und α_0' unmittelbar gleich ihren Koeffizienten in den beiden Normalgleichungen, also:

$$(4) \qquad p(\alpha_0) = k \text{ und } p(\alpha_0') = \frac{1}{12} r^2 k (k^2 - 1) = \frac{1}{12} t^2 \frac{k(k+1)}{k-1}.$$

Ist k eine grade Zahl, so ergibt sich genau dieselbe Formel. Das Gewicht von α_0 ist nur bei der Wahl des Zeitpunktes t_0 als Mittel aller Epochen in einfachster Weise gleich der Zahl k der Gleichungen; hätte man für t_0 etwa die Grenzepochen t_1 oder t_k gewählt, so würde sich für den diesen Epochen entsprechenden Wert von α_0 das Gewicht

$$(5) \qquad p_1(\alpha_0) = \frac{1}{2} \frac{k(k+1)}{2k-1}$$

ergeben haben; das Gewicht p_1 ist kleiner als p; bei k = Minimum = 3 ist $p_1(\alpha_0) = 1 \cdot 2$, $p(\alpha_0) = 3$; $k = 4$ ergibt $p_1(\alpha_0) = 1.43$, $p(\alpha_0) = 4$. Bei wachsendem k konvergiert $p_1(\alpha_0)$ gegen $\frac{1}{4} k = \frac{1}{4} p(\alpha_0)$, so daß der entsprechende mittlere Fehler von ε_1 gegen den doppelten Fehler von ε konvergiert. Dagegen ergibt sich für $p(\alpha_0')$ in beiden Fällen dieselbe Formel, so daß auch die mittleren Fehler bei beiden Methoden dieselben Werte behalten, was plausibel ist, da α_0' nur eine relative Größe, die zeitliche Änderung von α_0, ist. Da nun $p(\alpha_0')$ proportional t^2 ist, so daß der mittlere Fehler von α_0' umgekehrt proportional t ist, so wird, wenn ε der mittlere Fehler der Gewichtseinheit:

$$(6) \qquad \varepsilon(\alpha_0') = \frac{\varepsilon}{\sqrt{p(\alpha_0')}} = \frac{\varepsilon}{t} \sqrt{\frac{12(k-1)}{k(k+1)}} \text{ und } \varepsilon(\alpha_0) = \frac{\varepsilon}{\sqrt{p(\alpha_0)}} = \frac{\varepsilon}{\sqrt{k}}.$$

Mit wachsendem k wird also $\varepsilon(\alpha_0')$ umgekehrt proportional $\sqrt{k}$, und das Verhältnis der Gewichte:

$$(7) \qquad \frac{p(\alpha_0')}{p(\alpha_0)} = \frac{1}{12} t^2 \frac{k+1}{k-1}$$

konvergiert mit wachsendem k gegen $\frac{1}{12} t^2$, somit auch das Verhältnis der mittleren Fehler

$$(8) \qquad \frac{\varepsilon(\alpha_0)}{\varepsilon(\alpha_0')} = \frac{1}{6} \sqrt{3}\, t \sqrt{\frac{k+1}{k-1}}$$

gegen $\frac{1}{6} \sqrt{3}\, t = 0.289\, t$, Kontrollformeln, die von den unten folgenden Tabellen erfüllt werden.

Der Fall $k = 2$ fällt nicht unter die obigen Formeln der Ausgleichung, weil 2 Unbekannte vorhanden sind. Liegen nur 2 Katalogörter vor, so ergibt sich aber der mittlere Fehler von α_0 und α_0' wie folgt. Da die beiden Gleichungen in diesem Falle

$$\begin{Bmatrix} \alpha_0 + t_1 \alpha_0' = b_1 \\ \alpha_0 + t_2 \alpha_0' = b_2 \end{Bmatrix}$$

und die Lösung $\alpha_0' = \frac{b_2 - b_1'}{t_2 - t_1}$ ist, so ist, da $\varepsilon(b_1) = \varepsilon(b_2) = \varepsilon =$ mittlerer aus dem Gesamtmaterial bekannter Fehler einer Gleichung vom Gewicht 1: $\varepsilon(\alpha_0') = \frac{\sqrt{2}}{t_2 - t_1}\varepsilon$, also das Gewicht von α_0': $p(\alpha_0') = \frac{1}{2}(t_2 - t_1)^2$.

Wird t_1, also auch α_0, auf das Mittel der Zeiten t_1 und t_2 bezogen, so daß $\alpha_0 = \frac{1}{2}(b_1 + b_2)$, so wird: $\varepsilon(\alpha_0) = \frac{1}{2}\sqrt{2}\,\varepsilon$; entspräche α_0 dagegen dem Zeitpunkt t_1 oder t_2, so würde $\varepsilon_1(\alpha_0) = \varepsilon$; im ersten Falle ist das Gewicht von α_0: $p(\alpha_0) = 2$, im zweiten Falle: $p_1(\alpha_0) = 1$; auch hier also $p_1(\alpha_0) < p(\alpha_0)$. Würde man in die obigen allgemeinen Formeln den Wert $k = 2$ substituieren, so erhielte man trotz des Ausnahmefalles $k = 2$ doch auch die soeben abgeleiteten Werte für $p(\alpha_0)$ und $p_1(\alpha_0)$. Alle Formeln gelten in gleicher Weise für die Deklination.

Die Anwendung der abgeleiteten Formeln auf unseren Doppelsternkatalog gestaltet sich dann folgendermaßen.

Aus dem Gesamtmaterial der Doppelsterne wurden je 200 Sterne je Deklinationszone 0 — 5° usw. (s. die folgende Tabelle) herausgegriffen; dann wurden die folgenden mittleren Fehler je Gleichung vom Gewicht 1 erhalten:

Tabelle 1

δ	ε_α	ε_δ
°	s	″
0— 5	± 0.036	± 0.40
55—15	027	32
15—30	032	40
30—40	029	32
40—49	036	39
49—56	050	40
56—65	048	43
65—75	102	58
75—85	146	43

Während ε_δ wesentlich konstant bleibt und im Mittel $\pm 0''.41$ beträgt, steigt ε_α naturgemäß proportional sec δ, vielleicht noch in geringer Abhängigkeit von anderen Faktoren, die speziell bei Doppelsternen eine Rolle spielen; die Ausgleichung in A.R. nach der Formel $\varepsilon_\alpha = \varepsilon_0 \sec \delta$ ergibt: $\varepsilon_0 = \pm 0^s.027$ und zwar gültig für die dem Gewicht 1 entsprechende Zahl von 10 Einzelbeobachtungen eines Katalogortes. Da aber, wie wir oben schon bemerkten, ein Katalogort im Mittel aus nur 4 Einzelbeobachtungen besteht, so erhalten wir den wirklich stattfindenden durchschnittlichen m. F. einer Gleichung mittels Division von ε_α und ε_δ durch $\sqrt{0.4}$, so daß der tatsächliche m. F. einer Gleichung: $\varepsilon_\alpha = \bar{\varepsilon} \sec \delta$, wo $\bar{\varepsilon} = \pm 0^s.0426 = \pm 0''.639$ und $\varepsilon_\delta = \pm 0''.646$, so daß sehr nahe $\bar{\varepsilon} = \varepsilon_\delta = \pm 0''.64$. Mithin ergibt sich zunächst für den von der Anzahl k abhängigen durchschnittlichen m. F. $\varepsilon(\delta_0)$ einer Deklination in dem unten folgenden Generalkatalog die Tabelle 2:

Tabelle 2. M. F. einer Katal.-Dekl.

k	$\varepsilon(\delta_0)$	k	$\varepsilon(\delta_0)$
	″		″
2	±0.46	9	±0.22
3	37	10	20
4	32	12	19
5	29	14	17
6	26	16	16
7	24	18	15
8	23	20	14

Analog ergibt sich für den durchschnittlichen m. F. einer Katalog-Rektaszension in unserem Generalkataloge in Abhängigkeit von k und δ die weitere Tabelle 3:

Tabelle 3. M. F. einer Katal.-A.R.

k \ δ	2	3	4	5	6	7	8	9	10	12	14	16	18	20
0	s	s	s	s	s	s	s	s	s	s	s	s	s	s
0	±0.030	±0.025	±0.022	±0.019	±0.018	±0.016	±0.015	±0.014	±0.014	±0.012	±0.012	±0.011	±0.010	±0.010
10	31	25	22	20	18	16	15	14	14	13	12	11	10	10
20	32	26	23	20	19	17	16	15	14	13	12	11	11	10
30	35	28	25	22	20	19	18	16	16	14	13	12	12	11
40	40	32	28	25	23	21	20	19	18	16	15	14	13	12
50	47	38	33	30	27	25	24	22	21	19	18	17	16	15
60	61	50	43	39	35	33	30	29	27	25	23	21	20	19
70	89	72	63	56	52	48	44	42	40	36	34	31	30	28
80	175	143	124	111	102	94	88	82	78	71	66	62	58	55

Was nun die mittleren Fehler der E.B.-Komponenten anbetrifft, so möge zunächst der Faktor f von t^2 in dem Ausdruck für $\frac{1}{t^2} p(\alpha_0')$ bzw. $\frac{1}{t^2} p(\delta_0')$ tabuliert werden, zumal er für manche anderweitige analoge Untersuchungen gebraucht werden kann, als Funktion von k, also $f = \frac{1}{12} \frac{k(k+1)}{k-1}$ $\left(\text{bei großem } k \text{ nahe } = \frac{1}{12} k\right)$:

Tabelle 4. $f = \frac{1}{t^2} p(\alpha_0')$.

k	f	k	f
2	0.500	9	0.938
3	0.500	10	1.019
4	0.556	12	1.182
5	0.625	14	1.346
6	0.700	16	1.511
7	0.778	18	1.676
8	0.857	20	1.842

Um nun den m. F. einer E.B. zu berechnen mittels

$$\left.\begin{aligned} \varepsilon(\alpha_0') &= \frac{\bar{\varepsilon} \sec \delta}{\sqrt{p(\alpha_0')}} \\ &= \frac{1}{t} \frac{\bar{\varepsilon} \sec \delta}{\sqrt{f}} \end{aligned}\right\} \quad \text{bzw. } \varepsilon(\delta_0') = \frac{\varepsilon_\delta}{\sqrt{p(\delta_0')}} = \frac{1}{t} \frac{\varepsilon_\delta}{\sqrt{f}}$$

ist die Zwischenzeit t der Epochen bei jedem einzelnen Doppelstern zu berücksichtigen. Bei kleinem k bleibt die E.B. immer stark unsicher und nur für größere Werte von k hat die Fehlerbetrachtung der E.B. überhaupt einen Sinn; dann aber erstreckt sich das Zeitintervall t der Beobachtungsepochen über die Zeit von W. Struves „Positiones mediae" bis zur Jetztzeit, so daß im Durchschnitt von 1825 bis 1925, mit der mittleren Epoche 1875, also für grade rund ein Jahrhundert Epochendifferenz Beobachtungen der öfter gemessenen Sterne vorliegen. Deshalb erhält man ein einigermaßen zutreffendes Bild der Genauigkeit der E.B. unserer Doppelsterne im Generalkatalog, wenn rund $t = 1$ gesetzt wird (die E.B.-Komponenten sind für ein Jahrhundert angesetzt worden). Dann aber ergeben sich die mittleren Fehler $\varepsilon(\alpha_0')$ und $\varepsilon(\delta_0')$ mittels f in der soeben aufgestellten Tabelle 4, die für $t = 1$ direkt das Gewicht von α_0' und δ_0' fixiert, und mit Hilfe der mittleren Fehler einer Gleichung in α und δ aus den folgenden Tabellen 5 und 6:

Tabelle 5. M. F. der saek. E. B. in Dekl.

k	$\varepsilon(\delta_0')$	k	$\varepsilon(\delta_0')$
	″		″
2	±0.91	9	±0.67
3	91	10	64
4	86	12	59
5	82	14	56
6	77	16	52
7	73	18	50
8	70	20	48

Tabelle 6. $\varepsilon(\alpha_0') =$ m. F. der saek. E. B. in A. R.

δ \ k	2	3	4	5	6	7	8	9	10	12	14	16	18	20
	s	s	s	s	s	s	s	s	s	s	s	s	s	s
0°	±0.06	±0.06	±0.06	±0.05	±0.05	±0.05	±0.05	±0.04	±0.04	±0.04	±0.04	±0.04	±0.03	±0.03
10	7	6	6	6	5	5	4	5	4	4	4	4	3	3
20	6	6	6	6	6	5	5	5	4	4	4	4	4	3
30	7	7	7	6	6	6	5	5	5	5	4	4	4	4
40	8	8	8	7	7	6	6	6	6	5	5	5	4	4
50	10	10	9	8	8	8	7	7	7	6	6	5	5	5
60	12	12	12	10	10	10	9	9	9	8	7	7	7	6
70	18	18	17	16	15	14	14	13	12	12	11	10	10	9
80	35	35	33	31	30	28	27	26	24	23	21	20	19	18

Im weiter unten folgenden Generalkatalog ist die Anzahl k der benutzten Kataloge in der letzten Kolumne, getrennt für α_0 und δ_0, aufgeführt, so daß der durchschnittliche m. F. der Örter wie der E.B.-Komponenten mit k bzw. k und δ als Argument aus den obigen Tabellen entnommen werden kann.

§ 2. Der Katalog.

Dem Kataloge mögen folgende Erklärungen beigegeben werden.

Die Kolumne 1 enthält die laufende Nummer der Doppelsterne gemäß Burnhams „General Catalogue of Double Stars", nach dessen Numerierung für das Äquinoktium für 1880 unser Katalog für 1875 als Äquinoktium wie Epoche angeordnet geblieben ist, wenn auch einige Sterne durch Präzessionswirkung oder E.B. der Rektaszension nach umgestellt werden müßten. Die in Burnhams Appendix ab Nr. 12756 aufgeführten zusätzlichen Doppelsterne sind in die zugehörige Stelle der A.R. eingeschoben worden.

Kolumne 2 enthält nötigenfalls die Angabe der Komponente: A, B, C usw. oder p = praec., s = sequ., ma = major, mi = min., med. = media oder GB ≡ Gesamtbild, sobald eine Bemerkung erforderlich war, um etwaige Verwechselungen zu vermeiden.

Kolumne 3 enthält die Angabe der Größen, woraus allgemein die Rangordnung der Komponenten nach der Größe zu erkennen ist, sobald alle Komponenten tabuliert sind. Ist, wie meist, nur eine Komponente des Doppelsterns beobachtet bzw. tabuliert, so bezieht sich der angegebene Ort immer auf den Hauptstern, wenn neben der Größenangabe keine Bemerkung in der Kolumne 2 enthalten ist. Die Größenangaben sind Aitkens „New General Catalogue", also dem Draper-Kataloge, bei hier fehlender Angabe der „G. F. H." entnommen, oder den Angaben in Schlesingers „Bright Stars", insbesondere bei allen in dem „Preliminary General Catalogue" von Boss enthaltenen Doppelsternen. Alle Größenangaben sind eingeklammert, wenn sie nicht dem Draper-Kataloge entstammen. Auch bei den „media"-Örtern bezieht sich die Größenangabe immer auf den Hauptstern.

Kolumne 4 enthält die A.R. für das Aquin. und die Epoche 1875, unter Verwendung der in der 7. Kolumne enthaltenen E.B.-Komponente. Wo es möglich war, sind auch die durch die Meridianbeobachtungen erhaltenen A.R. der Komponenten angegeben. Bei unsicherer E.B. kann es vorkommen, daß bei der Reduktion der Örter auf die angenommene Epoche 1875 eine ursprüngliche p-Komponente zur s-Komponente werden kann, ebenso wie dadurch eine positio borealis zu einer positio australis werden kann, und umgekehrt.

Kolumne 5 enthält die jährliche Präzession in A. R. nach O. Struve, da die Örter der „G. F. H." bereits mit dieser Konstanten behandelt worden sind. Der eventuelle Übergang auf die Newcombsche Konstante wird zweckmäßig mittels der Tafeln der Hamburger Sternwarte bewerkstelligt.

Kolumne 6 enthält die Variatio saecularis in A. R.

Kolumne 7 enthält die 100jährige E.B. in A.R., berechnet bis auf $0^s.01$. Die Angabe 0.00 bedeutet, daß die E.B.-Komponente innerhalb der Epochendifferenz der Beobachtungen des Sterns verschwindend klein ist; ein frei gelassener Raum in Kolumne 7, ebensowie in der Kolumne 11 der E.B. in Deklination, bedeutet, daß die E.B.-Komponente infolge zu geringer Epochendifferenz oder infolge zu starken Schwankens der verschiedenen Katalogörter, besonders bei geringer Anzahl der letzteren, nicht angebbar ist.

Kolumne 8 enthält die Deklination für das Äquin. und die Epoche 1875, unter Verwendung der in der 11. Kolumne enthaltenen E.B.-Komponente. Im übrigen gilt hier das bereits unter der Kolumne 4 Gesagte.

Kolumne 9 enthält die jährliche Präzession in Deklination nach O. Struve.

Kolumne 10 enthält die Variatio saecularis in Dekl.

Kolumne 11 enthält die 100jährige E.B. in Deklination, berechnet bis auf $0''.1$. Im übrigen gilt hier das schon für Kolumne 7 Gesagte. Weiteres s. unter Kolumne 12.

Kolumne 12 enthält im allgemeinen die unter Berücksichtigung der Gewichte der einzelnen Katalogörter jedes Sterns berechnete mittlere Epoche der benutzten Katalogörter, um mittels des gegebenen Ortes und der E.B. einen von der berechneten E.B. unabhängigen Ort wiederherstellen zu können, wenn es in Zukunft nötig sein sollte. Die Jahrhundertzahl der Epoche ist fortgelassen, da die mittleren Epochen wesentlich um 1875 gelegen sind und nur zwischen 1840 und 1930 überhaupt vorkommen, so daß kein Zweifel über die Jahrhundertzahl entstehen kann. Bei einer Reihe von Sternen liegt außer nur einem A.G.-Katalog-Ort neuerdings ev. nur noch ein in den beiden Yale-Katalogen: „Transactions of the Astronomical Observatory of Yale Uniyersity", Vol. 7, $+55^0$ to $+60^0$ (1930), und Vol. 9, $+25^0$ to 30^0, enthaltener Ort vor; alsdann wurde dieser Yale-Ort nebst der zugehörigen Epoche und E.B. nach Yale angegeben. Bei den schon im „P. G. C." von Boss vorkommenden Sternen wurde die entsprechende Nummer des „P. G. C." in Kolumne 12 eingetragen und deshalb im übrigen außer der E.B. des „P. G. C." nur noch die Zeitminute der A.R. und der Grad der Deklination angegeben. Dasselbe gilt für die Sterne, die in dem eingangs erwähnten Kataloge Nr. 19 des Cincinnati Observatory vorkommen. Bei den wenigen dem Hamburger E.B.-Lexikon entnommenen Doppelsternen ist immer auch die B.D.-Nummer angegeben worden, ebenso wie bei den Sternen, die dem Schlesingerschen Kataloge der „Bright Stars" und damit Porters Katalog in Nr. 18 der Cincinnati Publications entnommen wurden, nicht aber Boss-Sterne sind. Dementsprechend bedeutet in Kolumne 12: B = Boss P. G. C., Ci = Cincinnati 19, H = Hamburger E.B.-Lexikon, S = Schlesingers „Bright Stars", S 7 und S 9 Schlesingers oben genannte Zonen. Sind diese Bezeichnungen

in Kolumne 12 eingeklammert, so bedeutet dies eine Neurechnung von Ort und E.B. auf Grund der Hinzuziehung neuerer Beobachtungen, worauf möglichst gesehen wurde.

Kolumne 13 enthält die Anzahl *k* der für beide Koordinaten des Sterns benutzten Kataloge; eine einzige Zahl bedeutet die Gleichheit der Zahl *k* für beide Koordinaten.

Kolumne 14 gibt die B.D.-Nummer jedes Sterns bzw. auch jeder Komponente, falls ihr eine besondere B.D.-Nummer zukommt. Das Vorzeichen + oder — vor der Nummer bedeutet, daß die Gradangabe der Deklination um ± 1 zu ändern ist, um die richtige B.D.-Nummer zu erhalten.

Der 2. Teil des Kataloges, der die A.-R-Stunden 12–24^{h} bringen wird, wird in Kürze dem vorliegenden Kataloge folgen.

Zum Schluß ist es mir eine Freude, meiner Mitarbeiterin an der Aufstellung des Kataloges, meiner Tochter Gerda Wilkens, für die unter stets gleichbleibendem Eifer ausgeführte treue Mitarbeit meinen herzlichsten Dank auszusprechen.

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
6		9.4	1 2.97	+3.0745	+ 127	+0.00	19 47 51.4	+20.054	—11	0.0	94.8	3	2
7		7.0	1 9.00	3.0762	+ 199	00	30 58 25.4	+20.054	—11	0.0	85.2, 84.7	4, 5	1
8		6.9	1 11.44	3.0779	+ 267	— 23	39 27 9.5	+20.054	—11	— 2.6	71.0, 68.1	6	3
12		8.6	1 17.22	3.0837	+ 477		56 40 59.1	+20.054	—11		60.5	3	1
15		(6.8)	1 35.67	3.0778	+ 198		30 41 45.8	+20.054	—12		88.7	4	2
21		6.2	3			+ 69	79			— 3.1	B 11		—1
22		9.0	3 35.13	+3.1206	+ 732	— 27	66 35 47.1	+20.052	—16	0.0	96.4	3	6
23		8.6	2 24.26	3.0826	+ 243	— 74	36 31 12.7	+20.053	—13	— 3.0	84.2	4	4
24		2.4	2			+3.53	58			—18.3	B 12		3
26		7.2	2 34.61	3.0849	+ 275	+ 74	40 9 11.1	+20.053	—14	—19.0	83.8	6	7
27		9.0	2 37.50	+3.0977	+ 524		58 56 8.9	+20.053	—14		27.7	2	5
29		(9.0)	4 4.55	3.1267	+ 730		66 26 59.7	+20.051	—17		89.4	2	7
31		8.5	3 10.08	3.0813	+ 167	00	25 59 10.8	+20.052	—15	+ 4.8	89.0, 96.0	3	9
33		8.0	3 13.94	3.0958	+ 400	00	51 19 58.3	+20.052	—15	0.0	76.4, 88.5	3, 2	9
35	p	8.5	3 25.98	3.0750	+ 62	+ 45	7 45 28.1	+20.052	—15	0.0	69.8, 63.9	3	9
36		(8.4)	3 26.40	+3.0760	+ 77	00	10 43 16.7	+20.052	—15	0.0	90.4	3	7
37	ma	7.7	3 33.77	3.0936	+ 331	00	45 41 42.9	+20.052	—16	— 2.8	75.7, 71.0	8, 9	16
37	s	(8.5)	34.24				43.0				73.1, 90.0	4, 3	
38		5.5	3			+ 25	10 42.9			— 0.3	B 18		8
40	ma	(9.0)	3 52.15	3.0735	+ 43	+ 35	4 11 44.0	+20.051	—16	0.0	81.5, 97.4	5, 3	9
41		8.6	3 52.53	+3.1082	+ 507		57 49 42.0	+20.051	—16		68.6	2	15
12759		9.2	4 19.24	3.1653	+1188	+1.18	74 50 1.8	+20.051	—17	— 8.8	94.8	5	3
45		9.1	4 22.94	3.1118	+ 495		57 8 31.8	+20.051	—17		57.9	2	23
48		(9.1)	4 35.65	3.1193	+ 498		57 13 23.0	+20.050	—18		58.4	2	24
49	ma	(9.2)	4 47.90	3.0725	+ 25	00	0 34 10.5	+20.050	—18	0.0	97.5	2	9
50		(7.5)	4 50.82	+3.0758	+ 60	00	7 15 10.5	+20.050	—18	0.0	76.1, 78.5	9	13
51		8.9	4 53.19	3.1080	+ 404	— 24	51 22 51.5	+20.050	—18	+ 2.1	90.8	2	18
52		8.0	4 59.16	3.1208	+ 535		59 4 0.2	+20.049	—19		56.3	3	—12
53		8.8	4 59.59	3.0883	+ 188	+ 38	28 54 19.4	+20.049	—18	+10.6	87.9, 91.1	4, 3	13
54		7.4	5 5.79	3.1152	+ 464	00	55 15 57.8	+20.049	—19	0.0	82.1, 79.9	7, 8	15
56		7.2	5 12.18	+3.1386	+ 703	+ 30	65 25 51.1	+20.049	—19	+ 0.0	44.2, 55.8	7, 6	13
61		7.9	5 23.50	3.0887	+ 180	— 70	27 43 36.5	+20.049	—19	0.0	82.6	7	12
62		6.8	5 34.90	3.1153	+ 428	00	52 55 42.9	+20.048	—20	— 1.6	96.3, 85.2	5, 6	19
65		(8.0)	6 19.34	3.1174	+ 399	00	50 47 20.6	+20.047	—21	0.0	77.5, 77.2	6	28
70		6.3	6 56.06	3.0923	+ 172	00	26 17 34.4	+20.045	—22	— 4.0	27.9, S 9		13
71		(7.1)	7 7.43	+3.2309	+1280	+ 93	75 19 54.0	+20.045	—23	+ 1.8	79.9, 80.7	7	4
73	p	(8.5)	7 11.18	3.1202	+ 375	00	48 51 49.1	+20.044	—23	0.0	72.6, 64.4	3	41
74		8.6	7 15.31	3.0766	+ 54	00	5 53 7.0	+20.044	—23	0.0	91.3, 92.0	12, 10	18
80		8.2	8 0.34	3.1375	+ 437		53 7 56.9	+20.042	—25		95.3	2	25
82		8.2	8 7.17	3.2828	+1534	+1.03	77 19 20.4	+20.042	—26	0.0	92.1	5	4
83		7.4	8 8.56	+3.1621	+ 621	+ 32	62 8 43.3	+20.042	—25	0.0	79.9	5	19
83		(8.2)	8.82			+ 16	25.0			0.0		5	19
85		9.0	8 24.90	3.1424	+ 469		55 0 39.4	+20.041	—25		74.3	2	—19
86		7.3	8 28.81	3.0911	+ 139	00	20 50 52.6	+20.040	—25	0.0	86.9, 90.0	6, 5	15
87		5.9	8			+ 67	8			— 2.6	B 35		19
88		8.2	8 34.22	+3.1557	+ 549		59 5 2.8	+20.040	—26		57.4	2	—18
92		6.2	9			+0.68	76			— 0.1	B 37		5
12765		9.0	9 22.81	3.1958	+ 752		66 7 40.9	+20.037	—28		88.1	2	12
101		8.8	10 2.62	3.1041	+ 190	— 31	28 35 54.8	+20.035	—28	+ 3.4	89.2, 74.4	4, 3	29
102	p	7.5	10 3.93	3.1529	+ 456		53 57 55.4	+20.035	—29		73.1	2	31

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
102	s	(9.0)	10 4.31	+3.1529	+ 456		53 58 0.5	+20.035	—29		73.1	2	31
103		9.0	10 7.51	3.0984	+ 159	+0.75	23 52 5.2	+20.035	—29	—12.8	82.6	3	28
104		7.7	10 12.20	3.1151	+ 246	+ 99	35 47 41.2	+20.034	—28	+ 5.0	83.0, 80.2	6, 7	34
105		7.0	10 11.93	3.1153	+ 247	+ 12	35 56 8.9	+20.034	—28	— 2.6	77.5, 70.7	4	35
106		5.8	10				60			— 0.2	B 41		21
107		(9.2)	10 20.80	3.0760	+ 44		3 35 1.7	+20.034	—29		92.6	3	28
109		9.0	10 32.73	3.0959	+ 142	+ 36	21 4 52.0	+20.033	—29	— 7.9	90.0	5	—18
114	p	8.7	10 54.74	3.1170	+ 241	— 71	35 8 47.6	+20.032	—30	— 5.0	04.4	2	39
114	med.	(8.5)	54.91			— 75	47.7			— 4.1	93.4, 85.8	7, 8	
115		8.4	10 54.87	3.0903	+ 111	+ 31	15 48 57.1	+20.031	—30	— 2.2	67.2, 66.6	6	35
116		6.6	10			+ 57	8			+ 8.5	B 45		24
12767		7.5	11 16.34	3.2727	+1080	00	72 15 9.1	+20.030	—32	0.0	81.5, 81.3	5	15
121		8.7	11 35.03	3.0827	+ 72		8 49 19.3	+20.029	—31		95.8	2	28
125		7.7	11 45.04	3.1505	+ 384	— 19	48 48 56.1	+20.028	—32		80.0, 90.9	3, 4	67
128	med.	(7.0)	12 1.21	3.1056	+ 171		25 26 48.7	+20.027	—32		49.8	3	29
128	s	7.2	12 1.29	3.1056	+ 171		25 26 48.3	+20.027	—32	— 3.1	74.2	6	29
131		6.0	12			+ 26	43			— 0.4	B 52		—48
134		8.8	12 13.03	3.1055	+ 168	+ 61	25 3 20.2	+20.026	—33	+ 2.6	91.0	2	—29
135	med.	8.8	12 15.25	3.0918	+ 109	+ 20	15 17 49.5	+20.026	—33	— 4.0	78.3, 79.8	8, 9	43
137		8.0	12 29.56	3.1935	+ 561		59 0 40.4	+20.024	—34		57.3	2	—28
140		(8.8)	12 54.27	3.2702	+ 911		69 11 34.1	+20.022	—35		93.5	2	15
144		7.1	13 28.22	3.1325	+ 264	—1.14	37 32 34.1	+20.020	—35	—27.9	73.5	8	42
147		(8.0)	13 39.65	3.0800	+ 56	00	5 35 52.6	+20.019	—35	0.0	84.6, 84.4	7	34
12771		7.0	13 55.42	3.1529	+ 338	+ 76	44 48 54.5	+20.017	—37	0.0	97.5	3	62
148		8.1	14 2.16	3.2647	+ 815	+ 55	66 58 15.1	+20.017	—38	+ 8.9	81.7	4	19
150		8.0	14 11.56	3.0892	+ 89		11 37 0.1	+20.016	—36		76.1, 71.2	3, 4	41
151		7.0	14 21.62	3.1252	+ 222	00	32 17 11.7	+20.015	—37	0.0	87.6, 76.3	6, 7	48
152		7.1	14 27.45	3.2643	+ 791	+1.41	66 18 41.8	+20.014	—38	+ 6.7	63.1, 63.9	3	20
153		6.6	14 28.39	3.0875	+ 82		10 17 2.0	+20.014	—37		72.1, 70.1	5, 6	32
157	A	8.3	14 48.22	3.2640	+ 772		65 46 14.0	+20.012	—39		74.4, 73.2	5	39
12772		9.0	14 48.90	3.2583	+ 747	+ 67	65 6 50.0	+20.012	—39	—11.5	86.8	3	37
157	B	(9.2)	14 56.40	3.2658	+ 773		65 46 25.0	+20.012	—39		76.1, 77.0	5, 4	40
160		8.1	15 1.08	3.1154	+ 179	+ 84	26 16 6.1	+20.011	—38		89.2	3	40
165		6.4	15			+ 40	12			+ 2.4	B 62		25
12774		8.7	15 54.64	3.1625	+ 335		44 13 3.0	+20.006	—41		63.0, 62.2	3	70
166		8.2	16 2.71	3.2448	+ 639	— 17	61 32 52.5	+20.005	—42	0.0	82.1	4	50
169	mi	(10.5)	16 6.99	3.1083	+ 145		20 58 34.8	+20.005	—40		80.2, 99.9	3, 1	34
169	ma	(8.5)	8.93			— 48	28.6			—7.0	96.8	4	
173		8.4	16 30.07	3.1913	+ 425		51 4 30.8	+20.002	—42		86.7	2	—60
178	mi	9.2	17 18.62	3.1277	+ 198		28 48 9.0	+19.997	—43		72.9, 72.6	4	55
178	ma	8.8	20.30	3.1279	+ 198	+ 25	28 48 33.5	+19.997	—43	+ 1.2	75.2	6	56
179		(8.2)	17 32.11	3.0777	+ 45	00	3 4 5.2	+19.996	—43	0.0	87.8, 91.1	5, 4	—44
180		5.4	17 32.12	3.1999	+ 431	00	51 19 36.8	+19.996	—44	0.0	81.9, 71.9 (B 67)		62
190		9.1	18 35.31	3.2054	+ 427		50 52 40.7	+19.988	—46		96.3	4	67
191		9.3	18 44.12	3.1400	+ 222	+ 27	31 48 38.0	+19.987	—46	0.0	82.9	6	50
192		(8.6)	18 44.68	3.1764	+ 332		43 37 54.8	+19.987	—46	— 3.0	73.7, 74.4	4	74
194		8.2	19 1.49	3.1522	+ 255		35 47 29.3	+19.985	—47	— 2.1	00.8, 94.8	3, 4	66
197		6.8	19 22.93	3.2404	+ 520	— 72	56 5 18.4	+19.982	—49	— 3.8	83.9	7	—72
198		8.6	19 24.14	3.1795	+ 331		43 29 3.8	+19.982	—48	— 2.5	05.1	2	80
199		(8.9)	19 27.24	3.1490	+ 241		34 6 12.6	+19.982	—48		96.6	2	—41

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
201		8.5	19 34.02	+3.1213	+ 162	—0.32	23 17 26.6	+19.981	—47	0.0	90.6, 82.6	3, 4	54
205		6.7	20 27.76	3.2108	+ 407	00	49 17 37.1	+19.974	—50	0.0	69.4, 75.2	13, 14	91
208		8.0	20 40.03	3.1174	+ 145		20 33 57.5	+19.973	—50	— 4.9	86.7	4, 4	44
212		(6.7)	21 0.81	3.1058	+ 114	— 67	15 19 58.6	+19.970	—50	0.0	64.6, 70.8	15, 12	59
215		9.0	21 14.31	3.1838	+ 306	— 18	40 43 44.7	+19.960	—54	5.6	77.9	3	93
217		8.1	21 21.18	3.1247	+ 161		22 52 40.8	+19.967	—51	— 7.8	86.2, 86.6	3, 2	66
225		9.0	22 12.99	3.1216	+ 148	+ 85	20 52 31.6	+19.960	—53	0.0	79.7	4	47
226		8.0	22 13.33	3.3325	+ 730		63 33 27.6	+19.960	—56		60.2	2	52
12779		8.0	22 40.74	3.0970	+ 88		10 37 42.5	+19.956	—53		90.2	3	54
230		(9.0)	22 42.21	3.1710	+ 268		36 44 34.4	+19.956	—55	— 3.2	99.9	3	68
233		(8.5)	23 1.34	3.4809	+1177		71 50 23.6	+19.953	—60		95.7	3	19
236		5.9	23			+ 21	59			— 3.4	B 87		68
239		5.3	23			+ 28	29			— 5.5	B 89		—75
12780		8.5	23 45.29	3.4354	+ 993	+6.00	69 5 48.6	+19.946	—60	— 4.8	84.2	5	—29
243		7.8	23 59.90	3.2213	+ 379		46 50 26.8	+19.944	—58		78.6	2	95
245		(7.8)	24 3.28	3.1579	+ 224		31 26 45.7	+19.944	—57		84.0 83.7 ,	3, 4	67
246		8.0	24 13.29	3.2822	+ 534	+ 93	56 6 16.4	+19.942	—59	— 9.3	86.3	2	—93
248		6.9	24			— 27	15			— 0.7	B 93		69
249		8.0	24 20.63	3.1657	+ 240	00	33 24 28.2	+19.941	—58	0.0	70.8, 70.4	4	58
255		8.4	24 41.80	3.2975	+ 565		57 27 10.0	+19.938	—60		57.9	2	97
256		(8.8)	24 42.02	3.7171	+1919	+ 44	77 25 29.0	+19.938	—67	— 9.4	05.5	3	15
256		(8.7)	42.44				22.0			— 4.4	87.9	4	
258		(6.0)	24 47.58	3.1656	+ 236	+ 38	32 53 28.9	+19.937	—59	— 3.1	70.4, 74.2	13, 14	80
260		4.9	24 53.09	3.2704	+ 491	+ 43	53 49 55.0	+19.936	—60	— 2.3	59.9, 42.0 (B 97)	27, 28	82
262		8.1	25 10.00	3.1798	+ 266	— 14	36 16 34.6	+19.933	—60	+ 0.6	74.0, 72.6	4	77
265		(8.6)	25 21.32	3.1502	+ 197	— 41	27 49 9.8	+19.932	—60	+ 3.3	97.7	3	80
265			22.18			— 58	49 51.3	+19.931			93.1, 96.6	3	
266		9.2	25 27.32	3.1758	+ 254		34 56 10.8	+19.931	—60		88.3		72
267		7.0	25 23.96	3.3057	+ 572	00	57 38 56.3	+19.931	—62	— 1.7	84.8	4	98
271		9.0	25 44.92	3.1854	+ 274		37 3 24.6	+19.928	—61		03.0	2	—79
274		5.7	26			+ 20	6			+ 1.0	B 102		64
275		5.5	26			+ 88	19			— 5.4	B 104		79
276		7.0	26 5.24	3.1351	+ 161	+ 84	22 30 7.7	+19.924	—60	+ 2.6	51.8, 74.3	12, 10	79
277		8.8	26 8.58	3.2613	+ 447	— 59	51 9 48.2	+19.924	—63		93.8	2	94
278		7.9	26 12.72	3.1797	+ 257	+ 64	35 10 5.4	+19.923	—62	— 2.1	92.0, 90.6	5	90
279		6.4	26			+ 11	27			+ 0.4	B 106		84
280		9.2	26 19.33	3.1586	+ 210	— 51	29 25 41.1	+19.922	—62		94.5	2	98
12784		7.9	26 38.65:	3.2383	+ 385	+ 27:	46 57 33.6	+19.919	—63		76.2, 02.4	3, 2	107
283		7.9	26 47.59	3.2004	+ 298	+ 06	39 24 54.6	+19.917	—63	+ 3.2	94.4	4	115
12785		8.4	26 47.89:	3.2253	+ 353	+ 75:	44 27 36.1:	+19.917	—63	+ 8.4:	00.9	2, 3	114
287		(9.0)	27 16.34	3.5560	+1221		71 49 52.4	+19.912	—70		94.7, 94.4	3	24
292		7.5	27 26.71	3.3753	+ 707	— 53	62 12 57.0	+19.911	—67	— 5.4	68.4, 65.9	6, 7	107
293		(7.8)	27 29.00	3.0796	+ 48	— 24	2 37 49.5	+19.910	—62	— 1.7	74.4, 76.4	12, 13	67
301		(8.1)	28 18.99	3.1517	+ 184		25 45 18.5	+19.901	—66	+ 4.8	94.6, 81.2	2, 3	78
302	s	(8.5)	28 21.57	3.1265	+ 136	— 28	18 12 40.3	+19.901	—65	— 1.6	93.6, 95.4	4, 5	76
303		8.4	28 22.51	3.2035	+ 290	— 03	38 28 43.6	+19.901	—66	0.0	82.0	5	72
304		8.2	28 25.51	3.3369	+ 590	00	57 59 21.8	+19.900	—69	0.0	79.9, 78.8	3, 4	106
305		6.8	28 28.56	3.1932	+ 268	00	36 8 36.4	+19.900	—66	0.0	74.6, 73.5	8	87
308		8.5	28 29.09	3.1978	+ 278		37 8 52.8	+19.900	—67		00.4, 00.9	2	94
316		(9.0)	28 53.73			+ 97	84 3 32.2			0.0	75.2, 81.9	7, 5	—10

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
317		7.0	28 57.77	+3.2616	+ 408	—0.24	48 19 55.4	+19.894	—68	+ 2.4	88.5, 05.5	4	177
319		8.2	29 0.47	3.1055	+ 95	— 95	10 9 20.3	+19.894	—66	—13.1	83.1, 89.7	5	+72
321		(8.9)	29 12.00	3.0801	+ 49		2 37 59.6	+19.892	—66		90.2	3, 2	73
322		8.6	29 22.90	3.1683	+ 212	+1.30	29 18 5.8	+19.890	—68	—41.4	81.1, 81.8	13, 12	105
322		(8.7)	23.22			+0.91	18 11.1			—37.5	93.9	2	
324		8.4	29 29.73	3.3449	+ 589		57 49 21.0	+19.888	—71		58.3	3	111
325		8.5	29 42.72	3.3696	+ 642		59 49 37.4	+19.886	—72	— 1.5	84.1	4	85
325		(9.0)	42.89				49 32.4				97.6	2	85
12791		9.0	29 56.42	3.1078	+ 97		11 31 43.5	+19.883	—68		95.1	3	73
328		7.1	30 3.12	3.6169	+1284		72 12 23.2	+19.882	—77		95.4	3	35
329		4.4	30			+ 17	33			— 0.9	B 123		—101
332		8.9	30 43.85	3.1618	+ 192	— 78	26 36 56.3	+19.874	—70		97.3	2	93
336		8.4	31 1.88	3.1451	+ 161	+ 44	21 59 11.1	+19.871	—70		82.7, 89.3	4, 3	75
12793		9.0	31 10.62	3.1761	+ 217	— 28	29 49 14.5	+19.869	—71		93.3	2	111
338		9.0	31 26.08	3.0797	+ 49	00	2 19 12.3	+19.866	—70	— 3.0	91.0	3	81
339		8.6	31 25.33	3.1555	+ 178		24 29 10.3	+19.866	—71		98.6, 95.9	3	88
340	s	8.5	31 40.21	3.2284	+ 312	+ 37	40 17 55.2	+10.863	—73	0.0	73.6, 73.1	5, 4	131
346	p	6.8	31 51.09	3.2658	+ 384	—0.60	46 16 8.2	+19.861	—74	0.0	74.2, 76.6	9, 8	129
347		8.9	32 14.40	3.2294	+ 309	— 20	39 59 1.9	+19.856	—75	— 1.7	02.2	4	148
349		5.7	32			+ 14	48			— 1.3	B 131		192
354		3.5	32			+1.07	30			— 8.6	B 132		91
357		7.8	32 51.94	3.2116	+ 272	+ 79	36 6 15.0	+19.848	—76	— 2.4	76.6, 74.5	4	—113
359		7.7	33 20.16	3.2769	+ 390		46 34 7.9	+19.842	—78		88.8, 92.5	4	131
360		5.6	33			+ 20	20			— 4.0	B 134		87
361		2.5	33			+ 34	55			— 3.1	B 135		139
363		8.6	33 43.03	3.1569	+ 172		23 21 45.3	+19.837	—76	0.0	92.2	2	92
363		7.2	43.49			00	22 0.3				79.2, 79.1	6, 5	
367		9.0	34 23.08	3.1624	+ 179		24 16 47.6	+19.829	—77		92.0	2	94
372	p	7.3	34 52.94	3.6506	+1195	+ 71	70 40 52.8	+19.822	—89		79.4, 78.0	3	39
374		7.6	35 56.94	3.0850	+ 57	+ 10	3 28 55.3	+19.808	—79	— 5.6	80.9	10	93
375		8.2	35 53.51	3.9424	+1964	— 96:	76 31 27.0	+19.809	—98		89.8	3	22
383		8.7	37 0.16	3.1366	+ 131	00	16 40 19.0	+19.793	—82	— 8.0	64.7	6	70
385		8.2	37 5.77	3.2339	+ 283	+ 18	36 52 33.1	+19.792	—85	— 1.4	86.2, 86.4	4	114
12804		8.4	37 7.52	3.2977	+ 392	+ 16	46 16 46.6	+19.792	—86	0.0	78.4, 64.6	5, 4	148
388	G.B.	7.5	37 15.82	3.2929	+ 382	+ 67	45 33 5.2	+19.790	—86	— 4.0	94.3	5	187
392		7.7	37 39.21	3.2139	+ 248	+ 46	32 56 0.8	+19.784	—85				124
395		4.7	37			+ 22	47			— 0.5	B 152		183
401		5.5	38 10.43	3.3834	+ 536	— 38	54 32 12.9	+19.777	—90	0.0	75.9, 79.9 (B 154)	18, 19	143
402		8.0	38 35.83	3.2792	+ 348		42 43 1.6	+19.770	—89		79.6	2	161
403	p	8.0	38 42.20	3.3849	+ 532	+1.02	54 17 46.2	+19.769	—92	— 8.0	86.3, 86.9	4	144
404		(8.5)	38 44.40	3.2072	+ 232		30 59 4.9	+19.768	—87		92.9, 93.3	4	110
406		(9.0)	38 50.93	3.1105	+ 92	00	9 37 42.4	+19.767	—85	— 3.0	71.4, 71.6	6	844
12806		9.0	39 30.60	3.8612	+1570		73 47 58.0	+19.757	—105		03.9	2	36
415		7.4	39 41.97	3.2067	+ 227	00	30 15 40.2	+19.754	— 90	— 6.0	67.6, 69.6	9, 10	113
417		(8.2)	40 21.72	3.3555	+ 462		50 24 47.4	+19.744	— 94		13.0, 07.3	5, 7	141
418		8.2	40 23.29	3.1696	+ 171	+ 18	22 34 6.6	+19.744	— 90	— 2.9	82.2	3	121
12807		(8.5)	40 24.35	3.1214	+ 105	— 32	11 50 46.7	+19.743	— 88		65.4, 61.1	5, 4	95
422		6.8	40 54.99	3.3630	+ 468	00	50 45 43.6	+19.735	— 96	0.0	72.4, 19.1	9, 13	143
422		8.1	55.19				41.8				90.4	3	

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
424		(8.1)	41 9.07	+3.1238	+ 17	+0.52	12 11 50.4	+19.732	— 90	— 6.6	69.8, 68.7	5	89
424		(8.4)	11.64				24.4			— 4.4	76.0, 73.6	3	
425		9.2	41 27.21	3.1837	+ 188		24 52 2.6	+19.727	— 92	— 4.3	00.4, 96.6	2, 3	118
426		3.6	41			+7.51	57			—52.2	B 168		150
12809		8.1	41 37.30	3.3078	+ 372		44 17 25.4	+19.724	— 96	— 1.0	46.6	4, 7	169
431		7.6	42 9.84	3.1517	+ 142	00	18 0 17.4	+19.716	— 93	— 4.4	82.3, 79.0	4, 5	—105
437		(7.6)	43 6.79	3.2153	+ 225	+1.90	29 46 9.6	+19.700	— 96	0.0	90.8, 90.2	6	141
439		5.5	43			+ 60	27			— 0.9	B 178		—131
440		8.0	43 20.59	3.3712	+ 459	— 58	49 56 57.1	+19.697	—101	— 2.8	96.7	5	215
441		9.0	43 22.98	3.1884	+ 188		24 47 39.8	+19.696	— 96		95.0	3	122
443		8.7	43 28.50	3.2495	+ 272	00	35 7 17.5	+19.694	— 98	0.0	84.2, 84.3	6	152
444		8.6	43 40.60	3.1222	+ 102	+ 18	11 9 0.9	+19.691	— 95	— 6.0	88.0, 87.9	16	102
445		8.2	43 43.95	3.7096	+1084		68 18 22.3	+19.690	—111		88.8	3	56
447		8.7	44 16.08	3.2916	+ 329		40 31 2.8	+19.681	—101	— 2.8	66.9	3, 3	175
12813		7.6	44 44.60	3.3541	+ 419		47 22 31.5	+19.673	—103		04.3	4	226
448		7.1	44 51.34	3.7218	+1083		68 11 9.8	+19.671	—114	+ 1.7	63.9	3	57
451		9.4	45 0.02	3.1826	+ 176	— 36	22 57 6.3	+19.669	— 99	— 3.8	84.0, 84.3	4	138
452		6.8	45 2.23	3.1282	+ 109	+ 43	12 6 17.3	+19.668	— 98	— 2.5	82.4, 84.2	18	106
453		(7.0)	45 9.60	3.2436	+ 256		33 12 37.0	+19.666	—101		69.3, 70.8	3	117
455	D	9.5	45 31.57	3.4626	+ 586		55 56 42.8	+19.660	—108		74.4	2	191
455	A	7.7	31.75	3.4626	+ 586		52.0	+19.660	—108		74.4	2	191
455	C	8.2	32.19	3.4627	+ 586		48.9	+19.660	—108		74.4	2	191
456		8.4	45 36.66	3.1185	+ 97	+ 32	9 55 18.3	+19.658	— 98	— 3.6	82.6	20	99
457		(9.1)	45 39.02	3.2599	+ 277		35 20 47.4	+19.658	—103		04.3	2	158
458		4.9	45			— 48	60			+17.4	B 189		124
459		(7.5)	45 41.44	3.1963	+ 192	+ 51	25 6 0.8	+19.657	—101	0.0	79.4, 82.8	6	—128
464		8.4	46 17.10	3.1153	+ 93	— 35	9 7 29.9	+19.647	—100	0.0	87.7, 89.7	15, 14	101
465		9.2	46 22.18	3.7498	+1105		68 22 8.6	+19.645	—119		88.4	2	58
467	s	6.2	46 35.40	3.4179	+ 502	+ 79	52 0 38.3	+19.641	—109	— 2.9	72.5, 69.4	7	—179
468		9.0	46 52.64	3.0928	+ 67	— 30	4 19 32.7	+19.636	—100	— 6.7	81.1	9	133
470		8.6	47 2.36	3.0847	+ 58	— 11	2 37 24.4	+19.633	—100	+ 0.2	79.9	6	126
474		(9.1)	47 31.54			+1.28	83 0 21.5			+ 1.4	76.1	5	—22
475		5.0	47			— 20	58			— 4.4	B 193		134
476		8.4	47 43.69	3.2920	+ 310		38 29 5.2	+19.621	—108	— 1.2	70.8, 90.1		140
477		7.6	47 46.76	3.3875	+ 445		48 43 36.4	+19.620	—111		71.9, 78.0	3, 4	288
479		5.8	47			+ 17	18			— 1.5	B 195		122
480	s	7.8	48 15.22	3.1153	+ 92	— 33	8 45 4.8	+19.611	—103	— 4.3	75.1	3	126
482		5.6	48			+ 94	22			— 3.5	B 197		146
483		9.0	48 23.36	3.2180	+ 211		27 29 25.9	+19.609	—107	+ 5.7	94.2	2	146
484		8.9	48 43.06	3.1365	+ 115	+ 11	12 52 25.3	+19.606	—105	— 9.8	76.2	4	109
485		7.9	48 36.59	3.2346	+ 232		29 58 59.6	+19.605	—107		74.1	4	150
486		8.5	48 43.29	3.2616	+ 265		33 52 10.7	+19.603	—109		65.4	3	130
488		2.2	49			+ 20	60			— 0.2	B 199		—144
489		5.5	49			+ 27	59			— 0.2	B 201		146
497		3.9	49			+1.28	37			+ 2.7	B 203		175
499		9.0	50 4.16	3.1233	+ 99	+ 45	9 59 49.4	+19.578	—107	— 1.9	74.2	3	108
500		8.5	50 17.36	3.4687	+ 544		53 43 10.8	+19.573	—119		95.3	2	184
12818		8.4	50 41.98	3.7555	+1024		66 45 51.2	+19.566	—129	— 5.2	82.0	3	79
503	med.	(9.1)	51 3.25	3.4751	+ 547	— 45	53 45 6.9	+19.559	—120	—22.6	87.1, 93.3	4, 2	185
504	p	9.2	51 22.89	3.2188	+ 204		26 14 45.2	+19.552	—113		94.7	1	158

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
504	s	9.2	51 23.34	+3.2188	+ 204		26 14 39.9	+19.252	—113		94.7	1	158
506		6.9	51 17.86			0.00	81 12 3.4			0.0	92.3, 90.6	7	25
507		9.1	51 31.22	3.1173	+ 92	—1.40	8 36 10.0	+19.550	—110		93.2	3	137
508		6.4	51			00	20			0.0	S 277		131
12819		8.1	51 38.12	3.3635	+ 384	— 09	44 16 50.6	+19.547	—118	— 1.8	87.1, 00.2	4, 5	208
514		9.3	52 1.57	3.2063	+ 188		24 0 27.9	+19.540	—114		91.6	2	—135
519		7.8	52 59.03	3.0728	+ 49	— 24	0 6 26.1	+19.521	—111	—10.5	68.5, 75.3	23, 21	159
520		6.0	53			+ 28	44			— 1.9	B 216		193
524		7.6	53 27.45	3.3996	+ 420	— 21	46 38 47.4	+19.511	—123		78.9, 79.9	2	229
527		8.0	53 40.31	3.1340	+ 108	+ 49	11 15 37.0	+19.507	—114	0.0	83.4, 79.1	4, 5	130
528		8.2	54 10.84	3.1208	+ 95	00	8 48 46.1	+19.496	—115	0.0	69.4, 73.3	5, 6	147
530		6.9	54 14.51	3.4312	+ 457		48 52 13.1	+19.495	—126		77.4, 85.8	4	320
533		(8.8)	54 28.77	3.1376	+ 111		11 43 52.7	+19.490	—116		85.3	3	132
534		9.4	55 7.55	3.2082	+ 183	+ 37	23 7 14.7	+19.477	—120	— 3.2	88.3	4, 7	139
537		6.8	55 35.99	3.4706	+ 500		51 7 31.6	+19.467	—130		94.8	2	216
538		7.7	55 36.37	3.4170	+ 429		47 1 33.9	+19.467	—128		70.3, 77.7	4, 3	—241
539		6.7	55 48.60	3.2370	+ 213	+ 58	27 4 28.6	+19.463	—123	+ 2.6	75.6, 78.6	8, 7	—169
541		6.4	55 50.00	3.4145	+ 424	— 19	46 42 14.0	+19.462	—128	— 1.0	81.4, 81.9	8	243
542		5.9	55			— 19	40			— 1.0	B 223		209
543		5.9	55 56.06	3.6410	+ 746	— 25	60 24 8.6	+19.460	—137	0.0	85.6, 80.6	9, 12	157
545		(8.0)	56 13.29	3.4544	+ 474	+ 93	49 38 33.8	+19.454	—131	— 8.5	78.2	3	275
548		8.9	56 24.94	3.2354	+ 209		26 35 53.0	+19.449	—124		10.2, 95.0	1, 2	170
550		9.1	56 36.84	3.2346	+ 208		26 25 8.7	+19.445	—123		90.0	2, 2	171
551		7.2	57 3.96	3.3013	+ 280		34 47 51.1	+19.436	—127		98.6	3	171
553		6.1	57 23.06	3.0763	+ 54	+ 69	0 41 46.7	+19.429	—119	— 4.1	62.8 (B 230)	44, 38	174
561		5.6	58			00	14			+ 4.2	B 234		163
563		8.9	58 37.80	3.1451	+ 116		12 9 43.8	+19.401	—175	—10.5	72.6	3	131
567		(9.1)	58 51.37	3.1989	+ 167		20 27 3.9	+19.396	—127		90.9	3	154
568		9.1	58 53.76	3.1989	+ 167	—1.03	14 43 35.0	+19.396	—127	—21.7	70.9	3	167
569		8.3	58 53.40	3.4017	+ 390		44 6 54.2	+19.396	—134		79.6	2	232
570		5.6	59			+ 32	20			— 2.3	B 235/36		156/57
570		5.8											
571		(7.8)	59 1.28	3.2877	+ 259		32 19 24.7	+19.393	—130		91.1	3	191
573		(7.2)	59 18.94	3.2820	+ 251	00	31 30 43.6	+19.386	—131	— 2.6	49.5, 64.9	21, 18	180
574		6.8	59 21.24	3.0977	+ 73	+ 07	4 14 31.9	+19.386	—124	—11.8	72.4, 72.2	3, 2	175
574		7.6	23.38			+ 07	36.1	+19.385	—124	—11.0	72.5, 73.0	14	176
576		6.5	59 44.09	3.5266	+ 543	+ 30	52 49 43.5	+19.377	—141	0.0	74.9, 74.5	6	262
12826		8.0	59 49.15:	3.4430	+ 435	+ 27:	47 3 38.5:	+19.375	—138	— 5.0:	91.3, 64.5	3, 2	—258
578	s	9.3	59 50.00	4.9668	+3582		79 40 33.7	+19.375	—196		59.7	3	31
12827		8.5	0 2.88	3.8808	+1076		66 48 52.2	+19.370	—155		79.0	3	94
580		7.3	0 8.54	3.3431	+ 315	+ 17	37 58 53.8	+19.368	—135	— 2.5	91.6, 75.1	5	210
584		7.1	0 30.14	3.1393	+ 109	+ 39	10 52 57.1	+19.359	—128	+ 4.5	86.6	11	128
585		8.3	0 30.52	3.3016	+ 269		33 19 37.6	+19.359	—134		01.2	4	169
587		7.5	0 37.02	3.4364	+ 422		46 10 24.23	+19.357	—139		88.7, 73.2	3, 2	266
594		9.4	1 19.02	3.0954	+ 71	+ 23	3 44 48.6	+19.341	—128		91.8, 99.1	3, 2	161
595		7.7	1 42.23	3.4222	+ 399		44 32 23.7	+19.332	—141		77.2	2	247
597		8.6	1 56.68	3.1687	+ 135		15 7 21.9	+19.326	—132		82.2, 81.6	5	167
600		4.3	2			+ 07	46			— 0.7	B 257		275
12828		9.0	2 12.89	3.4212	+ 395		44 13 37.1	+19.320	—142		53.9	2	250
601		(6.0)	2 13.50	3.9647	+1181	+ 62	68 6 45.5	+19.320	—163	— 3.1	57.0, 57.6	13, 12	77

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
603		7.8	2 36.27	+3.5235	+ 516		51 21 58.4	+19.311	—147		96.8	2	239
604		9.0	2 35.38	3.5209	+ 513	s	51 12 47.6	+19.311	—147	″	96.8	2	238
605		2.4	2			+1.49	34			—11.5	B 259		198
606		7.6	2 43.87	3.3491	+ 311		37 27 26.1	+19.308	—140	+ 2.3	89.9, 87.1	4	223
608		9.1	2 44.88	3.3703	+ 334	— 70	39 30 38.4	+19.307	—141	— 2.3	07.8, 08.5	2	271
609		8.0	2 44.23	3.5198	+ 511	—1.00	51 4 34.6	+19.307	—147	— 6.1	74.1	4	—227
609		7.7	44.53	3.5199		— 83	49.1			— 2.4	08.6	5	
612		6.6	2 54.26	3.2270	+ 187		23 7 40.2	+19.304	—136		79.2	3, 2	150
614		6.9	3 11.39	3.5114	+ 497		50 20 45.7	+19.297	—148	0.0	76.6 78.7	7, 10	228
617		8.9	3 29.94	3.2767	+ 234	— 56	29 12 11.2	+19.289	—139	+ 5.0	86.1	3	185
619		9.2	3 35.07	3.3313	+ 290		35 16 51.8	+19.287	—141		89.5	3	215
620		9.4	3 40.72	3.1769	+ 140		15 55 35.8	+19.285	—135	— 7.4:	82.9	2	170
620		8.7	42.14				36.7			—11.1:	80.7	2	
12831		7.9	4 7.94	3.3882	+ 348	+ 26	40 33 23.4:	+19.274	—145	— 2.5:	94.3	4	235
624		(6.0)	4 9.16	3.3511	+ 308	— 20	37 3 30.2	+19.274	—143	— 0.1	67.8, 71.9	11	—201
626		7.2	4 21.42	3.1302	+ 100	+ 72	8 53 22.4	+19.269	—135	+26.3	86.4	15	183
629		7.5	4 33.23	3.8459	+ 949	— 29	64 20 41.1	+19.264	—164	— 2.2	79.0, 78.8	10, 12	129
630		8.0	4 34.48	3.4727	+ 442	+ 57	47 7 59.8	+19.263	—149		02.2, 96.4	3, 2	333
635	p	8.2	4 53.50	3.5312	+ 510	00	50 51 37.0	+19.256	—152	— 2.6	73.8	5	236
636		(9.0)	5 4.34	3.5699	+ 545		52 32 0.3	+19.251	—154		91.8, 91.5	2	276
637		6.3	5 14.23	3.7507	+ 798	+ 27	61 2 30.6	+19.247	—162	0.0	85.7, 90.3	4, 5	—186
638		8.7	5 27.16	3.1000	+ 75	—1.34	4 13 4.3	+19.242	—136	—10.0	97.7, 98.9	7, 8	204
12832		9.0	5 28.80	3.8786	+ 986		64 57 9.5	+19.241	—168		85.3	3	130
641	p	(8.0)	5 56.47	3.3039	+ 255	00	31 24 34.2	+19.230	—145	0.0	76.5, 92.1	6, 4	196
641	ma	6.6	57.83	3.3040	+ 255		41.3	+19.229			71.3, 69.5	9, 10	
643		(6.8)	6 6.09	3.0843	+ 64	—1.22	1 48 38.1	+19.226	—136	—10.4	61.4, 65.6	26, 24	223
644		6.4	6 6.61	3.2866	+ 238	+ 07	29 24 2.4	+19.226	—144	— 1.7	27.9 S 9		195
647		4.6	7			+ 17	23			— 4.3	B 281		158
648		5.6	7			+ 91	6			— 5.4	B 282		174
649		(7.0)	7 15.83	4.3669	+1812		73 31 53.6	+19.197	—192	— 0.3	72.5, 75.8	4	61
650		7.4	7 26.70	3.2950	+ 242	+ 46	29 52 46.6	+19.192	—148	+ 6.0	89.2	4	200
652		7.2	7 48.72	5.3370	+4152	— 49	80 14 1.1	+19.183	—235	0.0	89.4, 91.1	10, 7	36
656		8.3	8 5.83	3.3324	+ 276		33 36 24.1	+19.175	—151		10.3	2	193
12838		9.2	8 6.25	4.0419	+1205		68 0 55.2	+19.175	—181		88.8	2	—104
657		7.8	8 20.72	3.3772	+ 320	+ 03	37 49 28.6	+19.169	—153	+ 0.1	87.8	4	242
12842		8.6	9 11.90	4.3507	+1731	00	72 53 28.4	+19.146	—197	— 7.3	85.2	4	67
661		(9.3)	9 16.71	3.4539	+ 396		43 47 44.9	+19.145	—158		92.4	2	258
663		(8.7)	9 34.13	3.1651	+ 126	— 19	13 4 28.8	+19.137	—146	— 3.4	54.1	2	—155
665		7.9	9 51.57	3.3834	+ 321	— 03	37 48 2.5	+19.130	—156	— 0.3	72.6, 73.1	4	248
672		(8.4)	10 22.53	3.5266	+ 470	+ 21	48 20 48.4	+19.116	—164	— 2.8	86.4	2	392
672		6.8	23.17				56.5				80.8	9, 10	
673		(6.9)	10 25.79	3.4624	+ 399	00	43 58 18.9	+19.115	—161	0.0	81.8	6	262
675		8.0	10 34.02	3.9613	+1039		65 29 56.5	+19.111	—183	— 8.6	78.8	3	151
676		8.0	10 39.94	3.1433	+ 108		9 56 12.8	+19.108	—147		85.1, 85.9	5, 4	146
677		(7.8)	10 44.08	3.0819	+ 63	— 12	1 21 17.4	+19.107	—145	— 2.1	80.8	8	241
678		8.7	10 44.20	3.2235	+ 172	00	20 25 34.2	+19.107	—151	0.0	85.1, 86.2	5	192
685		6.3	11 42.28	3.3793	+ 310	— 36	36 43 40.0	+19.081	—160	— 1.3	83.8, 82.8	7	220
687		7.5	11 44.39	3.4093	+ 339	— 20	39 18 20.0	+19.080	—161	— 3.9	78.0, 78.8	6	301
12844		9.0	11 49.79	3.9533	+1009	—1.62	64 55 42.1	+19.077	—186	+ 5.0:	90.3	2	148
691		5.2	12	3.7246	+ 691	+ 07	57	+19.067	—176	+ 0.5	B 298		260

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
692		8.5	12 26.02	+3.1013	+ 77	—0.11	3 59 43.5	+19.062	—149	+ 0.4	80.5, 84.5	12, 11	184
697		6.3	12 44.07	3.9283	+ 961	00	64 0 58.1	+19.053	—187	0.0	81.5, 81.7	10	—175
698		8.0	12 51.71	3.4660	+ 392		43 17 43.2	+19.049	—166	— 2.4	76.5, 93.0	2, 3	273
702		7.2	13 7.81	3.5890	+ 522		50 56 16.2	+19.042	—172		74.9, 77.3	4	260
706		9.0	13 22.33	3.5032	+ 428		45 41 12.2	+19.035	—169		81.6	2	319
706		8.8	23.44			00	40 52.3			0.0	73.4, 70.7	5	320
710		(8.6)	13 37.91	3.1705	+ 128		13 6 34.7	+19.028	—154		71.2, 70.3	3	199
712		(8.3)	14 13.13	3.1534	+ 115	+ 49	10 48 15.7	+19.012	—154	+ 4.1	90.7, 88.3	3, 2	166
12845		7.7	15 31.47	3.5243	+ 444	+ 25	46 37 35.2	+19.003	—172	0.0	84.9	5	334
714		6.9	14 43.57	3.1545	+ 115	+ 28	10 52 49.8	+18.998	—155	0.0	89.9, 83.1	14, 13	168
716		7.2	14 43.98	4.4056	+1698	00	72 11 33.0	+18.997	—214	0.0	62.8, 55.4	6	69
718[1]		6.4	15 25.81	3.7502	+ 695	+1.49	57 29 25.6	+18.978	—185	—10.2	15.8, S 7		274
723		9.1	15 45.78	3.5615	+ 477		48 25 57.3	+18.969	—177		98.8, 79.8	1, 2	414
724		(8.0)	16 2.17	3.2016	+ 150		16 32 29.9	+18.961	—160		76.9, 85.1	3,2	141
725		9.2	15 56.51	3.1655	+ 123	+2.81	12 5 42.7	+18.963	—158	9.2	05.7	3	168
728		8.8	16 31.16	3.0806	+ 64		1 5 11.0	+18.947	—155	— 2.7	93.4, 94.5	4	—226
732		5.0	17			+ 53	67			+ 3.4	B 310		123
733		8.5	17 17.93	3.2262	+ 167	— 80	19 11 14.0	+18.924	—164	— 3.0	95.5	3	229
734		(8.0)	17 19.96	3.4227	+ 332		38 22 21.0	+18.923	—173		93.5, 90.9	4	255
735		8.7	17 30.59	3.2975	+ 223	+ 28	26 55 39.6	+18.919	—168		96.6	2	231
12846		8.2	17 43.92:	3.5164	+ 420	— 96:	44 57 24.1:	+18.912	—179	— 3.8:	62.6, 82.6	3, 4	296
742		9.0	18 0.78	3.1077	+ 83	+ 32	4 32 34.1	+18.904	—159	— 2.7	77.6	3	244
747		8.2	18 33.08	3.3412	+ 257	+1.03	30 54 0.8	+18.888	—172	— 5.2	94.6, 86.4	6, 4	218
748		(8.5)	18 36.93	3.0913	+ 72	+ 25	2 25 9.0	+18.886	—160	— 3.6	87.8, 49.1	3, 2	205
752		(7.5)	19 3.76	4.6049	+1956	+4.47	73 33 36.9	+18.872	—236	—11.1	70.8, 70.9	3	75
753		8.2	19 10.49	3.9933	+ 971	00	63 49 30.4	+18.869	—205	— 1.3	95.4	4	187
757		6.4	20 10.90	3.4630	+ 359	00	40 27 1.9	+18.839	—181	0.0	83.8, 79.8	6	289
758		5.0	20			+3.24	44			— 9.6	B 321		307
759		8.8	20 13.39			+ 05	82 42 29.3			— 1.2	88.9	7	39
760		6.4	20 25.99	3.0954	+ 75	— 04	2 53 11.1	+18.832	—163	— 1.8	75.2	15	211
762		9.0	20 35.31	3.6796	+ 574		52 49 42.5	+18.827	—193		92.9	2	347
763		7.7	21 0.09	3.4908	+ 382		42 8 1.6	+18.815	—184	— 4.0	88.8	4	308
765		7.3	21 10.48	3.1104	+ 85	—0.18	4 42 28.2	+18.809	—165	—12.9	65.5, 64.5	21	251
12849		8.6	21 12.90	3.5282	+ 416		44 30 11.6	+18.808	—187		79.2	2	311
769		8.8	21 39.34	3.1870	+ 135		13 49 39.5	+18.795	—170		85.7	4	216
770		6.4	21			+ 60	7				S 426		213
774		8.8	22 24.61	3.2854	+ 205		24 22 36.3	+18.772	—177		05.5, 04.2	3	221
776		8.7	23 14.13	3.1868	+ 134		13 33 45.8	+18.746	—173	+ 1.7	96.8	4	222
777		8.0	23 26.13	3.9101	+ 818	— 42	60 23 48.2	+18.740	—211	+ 4.0	83.1	2	255
12851		8.6	23 18.15	3.5806	+ 457	+ 46	46 55 18.6	+18.744	—194	— 8.1	97.5, 95.8	4, 3	373
779		9.1	23 38.69	3.1737	+ 125		12 0 11.8	+18.733	—173	— 2.8	61.1	3	—190
780		8.0	23 41.99	3.5171	+ 396	00	42 58 31.0	+18.732	—191	— 2.5	78.5, 71.8	5, 6	313
787		8.6	24 36.13	5.4461	+3541	+ 55	78 30 45.7	+18.703	—295	0.0	80.1, 77.6	6, 5	49
789		8.5	24 46.51	3.4839	+ 362		40 25 11.8	+18.698	—192	0.0	00.3, 80.2	2, 4	309
790		3.7	24			+ 21	14			— 1.2	B 335	2, 4	231
793		8.8	25 12.98	3.7175	+ 585		53 1 39.4	+18.684	—205		96.8	2	—372
794		6.8	25 19.07	3.2145	+ 152	+ 83	16 18 34.0	+18.681	—178	—20.6	75.5, 75.3	24, 22	167
797		9.2	25 29.96	4.3590	+1408		69 15 27.6	+18.675	—240		80.0	3	105
798		6.8	25 38.32	3.4165	+ 302	— 16	35 12 1.8	+18.670	—190	— 7.2	82.3, 79.8	7	292
12852		7.8	25 50.14	4.5598	+1721	— 75	71 56 58.5	+18.664	—251	0.0	80.1, 77.3	6	87

[1] E. B. nach Ci 19, Nr. 236.

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
802		8.6	26 31.07	+3.5708	+ 433	—0.55	45 20 1.1	+18.642	—200	+ 4.9	96.4, 92.3	4, 3	376
804		6.6	26 45.10	3.1379	+ 102	00	7 34 0.6	+18.635	—177	— 3.4	65.9	21, 22	229
806		8.3	27 0.80	3.4263	+ 306	— 16	35 32 53.0	+18.626	—193	— 0.2	90.3, 90.6	4	296
12854		9.0	27 8.47	3.5676	+ 428		44 57 13.6	+18.622	—201		97.5, 95.6	5, 4	326
809		9.0	27 23.67	3.7199	+ 574		51 11 46.8	+18.614	—210		91.6	2	337
813		7.0	28			— 01	11			— 1.0	B 343		201
816		8.6	28 25.68	3.3703	+ 259	00	30 38 50.8	+18.580	—193	0.0	76,3, 75.6	6	246
817		8.0	28 27.46	4.6145	+1760	— 69	71 56 36.4	+18.579	—262	0.0	85.4, 84.5	4, 5	91
818		9.0	28 36.36	3.5891	+ 441		45 42 45.5	+18.574	—205		85.4	3	387
819		5.5	28			— 03	72			— 0.6	B 349		86
823		8.8	28 49.15	3.3930	+ 275		32 24 47.6	+18.567	—195		89.1	2	276
824		8.6	29 1.27	3.3205	+ 221	— 30	26 7 15.0	+18.560	—191		93.7	2	264
826		7.1	29 11.56	3.8840	+ 737		57 59 54.6	+18.555	—223		67.5, 69.8	4	343
829		6.6	29 20.86	5.3329	+3093	+ 67	77 19 56.6	+18.549	—304	0.0	69.6, 78.1	13, 12	58
830	med.	6.9	29 30.47	3.1348	+ 100	— 30	7 0 17.9	+18.544	—182	0.0	67.8	23	—244
12856		8.0	29 30.91	3.6390	+ 483		48 4 23.0	+18.544	—210		83.7, 70.1	2	—465
832	ma	7.9	29 48.03	3.1050	+ 83	00	3 40 28.6	+18.534	—181	0.0	81.8, 81.0	9, 10	218
837		8.0	30 15.41			+1.96	84 35 5.4			— 1.6	74.9, 76.9	8, 7	29
12857		8.4	30 29.15	3.5930	+ 437		45 21 39.3	+18.511	—209	— 3.3	80.4	3	396
839		8.0	30 46.63	3.2798	+ 190	+ 75	21 55 14.7	+18.501	—192	—14.3	84.4, 86.3	5, 4	220
841		8.7	30 49.65	3.7321	+ 566		51 58 8.7	+18.500	—218		83.6, 83.4	3	350
843		(9.0)	31 26.15	3.7446	+ 575	00	52 19 2.1	+18.479	—220		82.5	5	397
		9.2	26.97	3.7448	+ 575		8.8				18.0, 04.7	2, 3	
844		7.7	31 29.25	3.4785	+ 336		38 0 52.2	+18.477	—205	+ 1.5	92.0, 92.7	4	—335
845		8.4	31 39.32	3.5158	+ 366	+ 40	40 25 53.5	+18.472	—207	— 2.7	72.6	3	340
850		8.2	32 17.04	3.7990	+ 624		54 12 45.4	+18.450	—225	— 5.3	69.6	3	347
854		6.9	32			— 02	16			— 3.1	B 361		—244
855		8.5	32 36.58	3.7425	+ 566		51 53 41.1	+18.439	—223		93.9, 95.4	3, 2	364
856		7.7	32 44.68	3.4885	+ 340	— 10	38 20 6.7	+18.434	—208	— 3.7	88.2, 80.5	5	316
857		8.8	32 59.32	3.4859	+ 337		38 5 40.0	+18.426	—209	— 5.1	02.8	2	—340
858		7.8	32 58.21	4.0663	+ 914		61 2 34.8	+18.427	—242		95.8	2	309
860		9.4	33 11.93	3.2102	+ 144	+1.67	14 37 34.5	+18.419	—193		71.9, 72,6	4, 3	251
860		9.0	12.57			—0.24	19.2	+18.418		0.0	77.9, 68.7	5	253
861		4.9	33 12.43	3.5151	+ 360	+0.11	39 56 35.4	+18.419	—211	— 2.4	73.5, 67.9	20	378
862		(7.7)	33 15.08	3.4252	+ 290	+ 53	33 42 23.1	+18.417	—206	— 8.1	88.2	4	273
868		6.2	34 1.00	3.9254	+ 744	00	57 59 41.3	+18.390	—236	0.0	80.3, 77.6	13, 10	370
870		(6.3)	34			+ 87	25			— 4.5	B 373		276
871	p	(9.0)	34 40.25	3.1619	+ 115	+1.29	9 28 59.6:	+18.367	—193	+ 2.4:	88.8, 88.0	3	203
	ma	(8.9)	41.52			+ 90	44.4			+ 6.1	76.5, 77.7	4, 3	204
872		5.8	35			+ 32	59			— 1.3	B 374		307
876	ma	(9.0)	35 31.33	3.0843	+ 73	— 86	1 16 32.1	+18.337	—190	—15.5	96.0, 97.3	4	305
882		(5.3)	35			—2.08	19			—67.4	B 382		279
884		7.1	35 40.50	3.8535	+ 658		55 14 48.8	+18.332	—236	— 4.0	76.8	7	391
885		6.8	35 42.64	3.7727	+ 578	00	52 15 17.2	+18.331	—231	— 3.2	86.8, 84.1	8, 7	420
887		6.1	36 3.37	3.9071	+ 710	+ 32	56 54 25.6	+18.318	—240	— 3.5	73.9, 79.6	15, 13	330
892		7.2	36 12.30	6.2466	+4925	00	80 15 34.3	+18.313	—379	0.0	92.6, 95.3	6, 8	55
895		(8.8)	36 58.32	3.1914	+ 131	— 58	12 15 6.8	+18.286	—199		53.4	3	220
898		8.1	37 7.23	3.5227	+ 354	+ 35	39 19 45.7	+18.280	—219	— 1.7	88.3, 82.5	4	393
900		8.9	37 9.66	3.1587	+ 113		8 56 23.2	+18.279	—197	— 7.0	69.4, 73.2	4, 3	266
903		8.5	37 16.49	4.1616	+ 984	+ 71	63 11 17.5	+18.275	—258	— 5.5	78.2	4	236

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
905	p	7.7	37 30.81	+3.5883	+ 405	s	43 4 39.6	+18.266	—224		86.6, 86.0	5, 4	—362
907	p	(7.9)	37 38.12	3.1583	+ 112	+1.16	8 51 28.4	+18.262	—198		81.4, 84.4	2	269
907	ma	8.3	38.34			+0.70	24.3			″ 0.0	73.8, 74.1	8	
908		9.0	37 36.00	4.0610	+ 864	— 47	60 48 51.1	+18.263	—252	— 8.9	02.0	4	336
911		9.1	38 0.53	4.0577	+ 856	+ 11	60 38 5.2	+18.248	—253	0.0	88.5	3	343
12862		8.6	38 45.11	3.6119	+ 420		44 1 10.6	+18.221	—228		95.3, 93.1	5, 4	—364
918		9.0	39 3.82	3.7516	+ 540		50 29 47.4	+18.210	—237		87.4	2	352
920		(8.8)	39 9.32	3.2159	+ 144	— 49	14 22 35.6	+18.206	—204		99.0	4	270
923		8.5	39 21.41	3.5158	+ 342		38 18 3.4	+18.199	—223		94.9, 95.2	4	347
926		8.1	39 33.10	3.4312	+ 280		32 32 12.7	+18.192	—218		75.1, 77.6	4	318
927		8.9	39 34.92	3.3840	+ 248	— 46	28 59 9.2	+18.190	—216	— 2.2	76.6, 87.8	3	297
12863		9.0	39 49.43:	3.6195	+ 423	+ 45	44 7 49.6:	+18.182	—230	— 8.1:	01.2	2	369
12864		8.9	39 41.68	4.2671	+1085		64 45 14.9	+18.187	—270		94.8	2	236
930		8.0	39 59.28	3.8293	+ 607	00	53 15 51.5	+18.176	—244	0.0	87.6, 84.2	6, 5	388
931		(8.5)	40 2.90	4.1011	+ 887	— 43	61 12 53.4	+18.173	—261		72.7, 60.0	3, 2	329
935		(8.2)	40 38.88	3.3728	+ 239	+ 22	27 51 42.1	+18.151	—217	0.0	78.2, 89.5	7, 4	282
936		(9.0)	40 53.38	3.1050	+ 85		3 17 33.2	+18.142	—201	— 1.6	99.5, 90.5	2, 3	242
938		(8.8)	41 14.60	3.9237	+ 691	00	56 7 31.3	+18.129	—252	— 4.3	04.7, 93.9	2, 3	357
941	½(A+B)	(6.2)	41 30.49	3.6926	+ 477	00	47 16 24.4	+18.119	—238	00	64.7, 63.9	16	508
943		(9.0)	41 39.75	3.2775	+ 178	+ 27	19 40 53.8	+18.113	—213		73.1	3	287
946		(9.0)	41 48.15	3.2336	+ 153	— 34	15 40 56.8	+18.108	—210	— 2.2	57.8	3	267
949		8.5	41 56.98	3.4521	+ 290		33 26 15.2	+18.103	—224	— 3.4	64.8, 66.8	2, 3	305
950		7.3	42 6.70	3.1436	+ 104	00	7 3 38.1	+18.096	—205	0.0	63.1, 63.4	10	275
951		6.9	42 15.19	4.2674	+1057	00	64 14 0.1	+18.091	—277	— 2.5	86.4, 86.6	7	243
960		8.9	42 52.58	4.3645	+1169	+4.30	65 49 49.4	+18.069	—284	— 8.5	92.9	3	209
961	s	(9.3)	43 0.18	3.3615	+ 227	— 48	26 28 37.3	+18.062	—220		85.6	3	305
962		8.5	43 9.30	3.3611	+ 227	+ 47	26 24 43.3	+18.057	—220	— 1.4	91.7, 86.6	4	307
963		5.9	43			—0.07	21			— 1.3	B 410		243
964		8.5	43 22.52	3.2146	+ 141	00	13 43 38.5	+18.048	—212	0.0	83.1, 91.0	7, 6	286
965	p	8.7	43 27.07	4.0059	+ 758	00	58 0 20.7	+18.045	—262	0.0	5.3	2	—407
968		8.6	43 32.74	4.6270	+1504		69 25 22.5	+18.042	—302		84.5	3	121
969		(8.0)	43 48.16	3.6151	+ 405		42 51 21.2	+18.032	—238		68.0, 70.2	3, 2	389
12867		7.5	43 53.60	3.6885	+ 464	—1.04	46 27 59.5	+18.029	—243	— 3.3	89.3, 89.8	4	464
971		8.6	43 58.34	3.8152	+ 572		51 44 19.8	+18.026	—252		96.8	2	420
972		8.8	44 0.35	3.6623	+ 442		45 11 25.8	+18.024	—242		74.8, 68.7	1, 2	464
973		7.0	43 57.10	3.3550	+2661	— 27	75 36 24.1	+18.026	—350	0.0	79.1, 79.6	5	76
974		8.7	44 8.64	3.2916	+ 184	+ 34	20 29 45.2	+18.019	—218	— 4.5	83.3	5	296
975		8.8	44 9.58	3.0917	+ 79		1 53 43.7	+18.018	—206	+ 6.8	98,5	2	335
977		6.9	44 15.00	3.3342	+ 209		24 1 56.8	+18.015	—221	— 2.5	84.5	4	—246
978		8.0	44 19.54	3.9660	+ 712		56 40 7.5	+18.012	—262		57.6, 55.5	3, 4	372
980		(9.0)	44 57.64	3.1170	+ 91	00	4 19 46.2	+17.988	—209	0.0	93.9	7	320
981		(7.8)	45 24.24	3.1789	+ 122		10 11 30.4	+17.970	—213		67.9, 68.0	4	255
981		7.7	24.29			00	33.9			0.0	79.3, 79.3	11	
982		9.2	45 22.57	3.4619	+ 289		33 17 31.7	+17.972	—232		97.9	2	311
983		8.7	45 25.74	3.4266	+ 266		30 50 15.0	+17.969	—230		03.6	3	292
986		8.8	45 47.18	3.6473	+ 423		44 0 13.6	+17.956	—245		74.6	2	—386
988		7.0	45 48.74	3.5162	+ 326	— 13	36 42 18.7	+17.954	—236	— 4.8	81.9, 82.0	5	338
989		5.6	45			0.0	40			— 0.9	B 420		394
992		8.3	46 29.38	3.2307	+ 148	— 17	14 48 54.1	+17.928	—219	+ 3.6	99.0	6	298

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″			″			
993		4.8	46	s		+0.55	18	″		—11.4	B 422, 423		243
994		9.6	46 56.14	+3.2757	+ 172	+ 11	18 41 10.1	+17.910	—222		66.9, 83.9	6, 4	244
997		(8.4)	47 14.87	3.5363	+ 336	+ 25	37 34 49.7	+17.898	—240	— 1.7	83.5, 84.2	4	404
998	med.	(7.3)	47 38.12	4.1490	+ 873	+ 46	60 39 0.75	+17.883	—282	0.0	88.1	5	383
1002		7.3	48 0.65	3.3975	+ 243	+ 25	28 11 2.5	+17.868	—233	— 3.2	74.4	9	319
12871		8.7	48 20.85	3.5101	+ 316		35 43 25.5	+17.855	—241	— 7.8	92.8, 00.4	2, 3	374
1006		(9.0)	48 24.79	4.6452	+1455		68 49 54.1	+17.852	—316		93.3	2	137
1008		5.8	48 44.16	3.5265	+ 326	+1.42	36 38 13.0	+17.839	—243	0.0	57.6, 61.1	26	355
1011		8.7	48 49.38	3.5072	+ 313	— 19	35 25 58.3	+17.836	—242	— 0.2	07.8, 08.3	3	377
1015		6.2	49 26.16	3.0854	+ 78	+1.04	1 13 46.2	+17.811	—214	+17.7	75.2, 75.0	34, 31	347
12872		8.9	49 29.18	3.7451	+ 487		47 35 11.9	+17.809	—259		66.4	2	531
1019		(9.1)	50 6.64	5.1389	+2142		73 21 25.2	+17.784	—354		93.4, 78.2	2	107
1021		9.2	50 18.53	3.2775	+ 171	— 50	18 20 50.6	+17.776	—229	— 2.3	85.2	4	250
1022		9.0	50 20.69	3.4437	+ 268	— 19	30 57 33.9	+17.774	—240	— 4.5	85.9	3	307
1023		5.2	50			+ 32	64			— 0.9	B 440		—265
1025		7.4	50 31.23	3.6070	+ 378	—0.38	40 46 26.1	+17.767	—252	+ 2.0	66.2, 75.9	5, 3	411
1027		6.6	50 37.23	5.3711	+2510	+ 50	74 53 39.9	+17.763	—371	— 2.4	77.3, 80.4	9	91
1028		4.8	51			— 61	22			— 2.0	B 441		288
1031		9.0	51 12.58	3.4517	+ 271		31 19 7.2	+17.739	—243		02.3	3	346
1033		8.1	51 26.08	3.5443	+ 332	— 42	37 4 32.3	+17.730	—249	0.0	75.6, 76.0	4	—378
1036		4.6	51			— 41	70			+ 0.6	B 446		153
1037		8.0	52 4.23	4.0742	+ 764	+ 45	57 55 10.0	+17.704	—287	— 1.3	85.5	4	447
1039		7.8	52 17.80	3.3553	+ 212	00	24 13 13.9	+17.695	—238	— 3.1	71.4	5	288
1040		6.2	52 9.28	5.1595	+2131	00	73 14 39.6	+17.701	—361	0.0	78.6, 76.0	8	108
1041		9.4	52 28.94	3.6774	+ 423	00	43 50 35.6	+17.688	—260	— 7.7	79.2	5	405
1042		8.0	52 33.97	4.1603	+ 845		59 54 17.3	+17.683	—293		88.2	3	380
1043	A	9.0	52 39.10	3.3069	+ 185	— 17	20 23 58.5	+17.680	—235	—13.5	90.2, 99.8	8	320
1043	C	(9.2)	39.77	3.3068	+ 185	00	23 23.4			0.0	88.6	2, 3	
1044		5.3	52 40.35	5.7378	+3104	+3.72	76 40 43.4	+17.679	—402	— 4.6	73.7, 75.0	17	63
1046		8.0	52 55.18	3.9089	+ 608	00	52 54 58.7	+17.669	—277	0.0	84.1, 88.4	5	489
1048		(8.8)	53 36.79	3.1400	+ 102	— 42	6 5 3.1	+17.640	—225	— 4.0	73.1, 73.6	3	—275
1050		(8.0)	53 42.82	3.5129	+ 306	+ 63	34 41 49.7	+17.636	—252	+ 7.2	78.7	5	354
1051		5.3	54			— 04	75			— 1.6	B 460		86
12875		9.0	53 53.69	3.7564	+ 478		47 1 33.1	+17.628	—269		69.2	2	—495
1052		8.5	54 12.48	3.4827	+ 285		32 42 35.0	+17.615	—250	— 3.8	98.6, 89.9	4, 5	363
1054		7.7	54 21.95	3.2552	+ 157	00	15 57 35.1	+17.609	—235	0.0	87.0, 83.9	10, 8	292
1056		9.1	54 36.14	3.3508	+ 207	00	23 29 6.2	+17.599	—242	— 4.8	84.6	4	271
1057		6.7	54 55.28	7.0770	+5944	+3.06	80 53 0.7	+17.586	—503	0.0	88.4, 88.3	13, 11	65
1061		5.2	55			+ 30	2			— 0.8	B 463		317
1061		4.3	55										317
1063		8.6	55 34.48	4.5995	+1301	+1.04:	67 4 22.0	+17.558	—332	—4.24:	77.2, 79.8	6, 7	—181
1064		5.4	55			— 13	32			— 1.7	B 466		369
1066		8.0	55 45.03	4.3859	+1053	— 39	63 46 0.3	+17.550	—317		81.7, 78.8	9, 8	281
1068		9.0	56 3.15	3.1527	+ 108	+ 15	7 4 25.6	+17.537	—230		76.4, 93.0	4, 3	—319
1069		8.5	56 10.92	3.1957	+ 127	— 24	10 48 7.0	+17.532	—234		74.0, 74.0	4	274
1070	A	2.3	56			+ 42	41			— 5.2	B 468-69		395
1070	BC	5.16.2				+ 41				— 5.5			
1074		5.7	56			+ 93	25			+ 1.4	B 470		341
1078		8.6	56 51.50	4.8033	+1538		69 20 44.4	+17.503	—349		83.1	2	133
1084		8.6	57 25.70	3.3384	+ 198		22 6 11.3	+17.479	—246		03.0	3	300

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
1089		9.0	58 12.66	+3.5576	+ 324	s	36 21 27.0	+17.445	—263	″	03.8, 04.1	3	402
1094		6.7	58 41.29	6.5082	+4421	—0.61	79 5 49.0	+17.424	—477	+ 2.3	82.6, 86.4	11, 10	63
1096		7.8	59 2.46	3.2223	+ 139	+ 73	12 44 35.2	+17.409	—241	— 5.4	69.4, 63.9	3	281
1097		8.1	59 11.49	3.3752	+ 215		24 30 11.5	+17.403	—252		01.9, 02.1	2	302
1097		(8.5)	11.53	3.3752	+ 215		11.5						
1098		6.0	59 44.28	3.3848	+ 220	+ 24	25 6 25.5	+17.379	—254	— 5.1	27.9, S 9		349
1101		7.7	0 0.67	3.1887	+ 123	— 73	9 52 48.8	+17.367	—240	0.0	89.8, 91.0	7	271
1103		9.2	0 8.88	3.2398	+ 146		14 3 38.7	+17.361	—244	—14.7	75.9, 86.6	2	—335
1105		8.5	0 46.65	3.2523	+ 152		14 59 37.2	+17.333	—246		72.0	3, 5	342
1106	AB	(8.1)	0 58.34	3.8885	+ 551		50 28 43.4	+17.325	—293		68.1	2	459
1108		9.0	1 25.03	3.6432	+ 372	00	40 11 59.2	+17.305	—276	0.0	88.7, 89.3	5	442
1109		9.4	1 28.52	3.6444	+ 373	+ 56	40 14 52.6	+17.303	—276	0.0	98.6, 89.0	2, 3	443
1111		7.2	1 52.24	3.6884	+ 401	+ 14	42 16 2.8	+17.285	—280	— 8.0	02.8, 99.9	2, 3	456
1114		7.7	2 11.80	4.3372	+ 944	00	61 45 21.9	+17.270	—329	— 2.4	88.9	5	387
1116		8.5	2 10.87	3.3942	+ 222	+ 76	25 21 6.4	+17.271	—259	— 1.5	81.3, 82.6	7, 6	354
1116		5.0	2			+ 58	25			— 3.7	B 483		355
1119		9.2	2 30.25	5.0166	+1730		70 41 40.7	+17.257	—380		92.8	2	166
1120		8.0	2 46.77	3.3173	+ 182	— 15	19 45 18.0	+17.244	—254	0.0	86.1	19, 18	329
1122		6.4	3			— 05	57			+ 0.8	B 488		—438
1123		7.7	2 54.83	3.5120	+ 287		32 46 22.4	+17.239	—269		78.2	3	390
1125		6.0	3 18.24	3.6162	+ 350	— 29	38 26 54.0	+17.221	—278	— 2.0	65.2	13	425
1129		7.9	4 5.71	3.2325	+ 141	+ 39	13 5 41.0	+17.186	—250	— 9.9	73.9, 76.7	5	343
1131		8.8	4 8.30	4.1190	+ 726	+1.52	56 38 10.9	+17.183	—317		82.5, 86.2	8	446
1133		8.2	4 19.73	3.8297	+ 492		47 39 27.9	+17.175	—296		61.6	2	580
1135		8.6	4 24.82	3.2157	+ 134		11 44 5.5	+17.171	—250		89.0, 88.8	5, 4	290
1136		8.1	4 45.70	4.0124	+ 632	00	53 37 49.2	+17.156	—310	0.0	90.4, 92.0	9	474
1137		5.2	5			— 48	29			— 6.2	B 497		371
1139		7.6	5 11.09	3.3724	+ 207	+ 94	23 22 28.3	+17.136	—263	—15.9	82.6, 81.3	10, 11	296
1140		8.6	5 15.31	3.5917	+ 330	+ 16	36 46 54.2	+17.133	—280		95.2, 00.8	3	435
1143		7.7	5 37.23	7.0826	+5358	00	80 8 43.8	+17.117	—546	0.0	88.2	6	70
1144		6.0	6 2.27	3.8189	+ 478	— 75	46 53 57.0	+17.097	—298	— 5.7	85.2, 87.1	11, 8	536
1145		8.1	6 0.36	4.0600	+ 664	00	54 43 50.2	+17.099	—317	0.0	91.3	5	494
1148		7.6	6 7.82	4.1871	+ 773	— 29	57 54 16.5	+17.093	—327	0.0	91.6	4	522
1150		8.7	6 33.08	3.5440	+ 298		33 55 44.5	+17.074	—278		81.3, 82.6	5, 4	383
1152		8.9	6 47.82	3.6448	+ 358		39 10 50.9	+17.063	—286		07.8 13.4	3, 4	501
1153		8.7	6 56.23	3.5524	+ 303		34 19 23.9	+17.056	—280	— 8.4	10.1	4, 4	396
1154		9.5	6 57.64	3.3724	+ 205		23 6 46.8	+17.055	—266	— 7.7	91.8, 93.0	2	300
1157		9.0	7 7.42	3.9159	+ 545		50 8 57.2	+17.047	—308	0.0	86.2	3	490
1159		(7.5)	7 25.49	3.4765	+ 259		29 48 34.5	+17.034	—275		62.6, 89.3	6	376
1159		7.2	25.99				37.2				79.8, 94.9	6, 5	
1163		(7.0)	8 3.15	4.1408	+ 720	00	56 26 46.8	+17.005	—327	0.0	90.6, 85.0	10	470
1164		8.1	8 12.61	4.3403	+ 898	+ 49	60 46 20.3	+16.997	—343	—10.2	75.6, 78.2	6, 7	457
1166		8.5	8 32.24	4.1005	+ 684		55 19 59.6	+16.982	—326		75.1	2	560
1169		9.4	8 57.87	3.9814	+ 586		51 53 15.0	+16.962	—317		91.4	5	535
1170	mi	(8.7)	9 0.01	3.2004	+ 126		10 11 15.6	+16.960	—256	— 3.9	83.9	3	303
1170	s	8.9	9 0.88	3.2005	+ 126	+ 34	10 11 24.1	+16.960	—256		81.9	3	303
1171		8.9	8 57.77	4.0976	+ 679		55 10 35.6	+16.692	—327		89.6	3	563
1172		8.7	9 0.16	5.8919	+2896	00	75 48 4.0	+16.960	—466	0.0	89.4, 90.6	4, 5	90
1177		8.3	9 37.76	3.6103	+ 331	+ 33	36 54 14.1	+16.931	—289	—13.0	81.3	4	453
1178		(7.7)	9 24.57	6.8210	+4610	+ 70	79 11 43.3	+16.941	—540	0.0	81.4, 85.8	6	68

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1183	p	(8.0)	10 9.92	+3.4573	+ 245	+0.48	28 9 47.4	+16.906	—278	— 2.2	74.4, 98.6	5, 3	382
1183	ma	6.6	10.44			+ 52	10 0.8	+16.905		— 5.5	64.9, 66.8	12, 11	
1184		7.9	10 11.30	3.3819	+ 207		23 17 34.6	+16.904	—273		88.0, 81.0	4, 5	308
1186		8.7	10 18.34	3.6248	+ 338	+1.88	37 30 32.2	+16.900	—292	—21.2	09.0, 12.2	3, 4	518
1187		(6.7)	10			+ 07	56			— 0.9	B 519		522
1188		6.7	10 27.70	4.1647	+ 726	00	56 35 24.4	+16.892	—334	0.0	77.8, 80.5	19, 15	530
1189		9.0	10 32.60	3.3585	+ 195	— 35	21 39 9.2	+16.888	—271	— 6.5	89.7	4	316
1189		8.6	32.86				4.8				95.8	3	
1190		9.0	10 31.44	3.6508	+ 353	— 66	38 44 58.5	+16.889	—294	— 4.0	04.1	3	453
1191		(9.2)	10 32.75	3.6652	+ 362	+ 65	39 25 54.2	+16.888	—296		08.5	3	515
1193		(6.7)	10 41.19	4.2951	+ 838	— 18	59 27 5.3	+16.881	—345	0.0	89.0, 86.3	6, 7	467
1194		7.1	10 54.68	3.6723	+ 366	+ 06	39 42 0.2	+16.871	—297	— 2.2	63.2	3	517
1195		7.9	11 11.24	3.5591	+ 298	+1.02	33 54 39.2	+16.858	—288	— 8.4	67.2, 67.9	5	405
1196		(8.0)	11 16.31	3.2514	+ 147	00	13 53 17.1	+16.853	—264	— 2.8	70.2, 68.7	6	366
1197		(8.3)	11 38.91	5.4344	+2136		72 54 20.0	+16.836	—438	+ 4.8	82.9	2	125
1198		5.3	11			+ 09	28			— 0.2	B 526		360
1200		(8.8)	11 44.85	5.5310	+2272		73 31 45.3	+16.831	—446		92.6, 90.5	3, 4	129
1202		8.0	12 10.52	3.1184	+ 95	00	3 37 9.2	+16.810	—255	0.0	84.6, 87.4	9, 8	323
1203		9.2	12 11.88	3.5396	+ 285	— 14	32 39 55.5	+16.810	—289	— 1.5	82.2	4, 4	419
12885		8.5	12 53.28	3.4823	+ 254	00	29 14 9.9	+16.776	—285	0.0	75.0, 83.8	4	393
1212		8.7	13 13.14	3.7380	+ 400	+ 26	42 12 21.6	+16.761	—307	—24.5	65.0	3	501
1214		8.1	13 39.35	3.6240	+ 330	— 09	36 50 55.4	+16.740	—298	— 0.5	90.2, 90.5	4	465
1215	s	7.0	13 39.54	3.7839	+ 428		44 1 33.6	+16.739	—311		89.9	4	474
1216		8.9	13 40.57	3.5970	+ 315		35 28 19.0	+16.739	—296		10.2, 14.4	5	459
1217		5.2	13			+ 06	55			0.0	B 534		598
12886		8.8	13 47.94	3.4868	+ 255		29 21 34.5	+16.733	—287		83.8	3	396
1219		8.9	14 2.95	3.6658	+ 354	+ 36	38 48 17.3	+16.721	—302	— 2.0	87.7, 88.1	3	465
1221		8.0	14 7.50	3.6479	+ 343	+ 13	37 56 4.7	+16.717	—301	— 2.0	90.2, 90.5	4	536
1224		8.7	14 31.16	3.3874	+ 205		23 3 18.4	+16.698	—281	+ 2.8	89.5, 90.1	4, 5	333
1226		7.8	14 43.74	3.1805	+ 117	— 25	8 18 20.7	+16.688	—264	+ 4.2	92.8, 91.5	6	364
1227		8.7	14 55.67	4.7614	+1259	— 55	66 16 27.6	+16.678	—393		83.3	3	208
1235		7.1	16 19.89	4.4229	+ 911	00	60 58 53.7	+16.609	—369	0.0	89.1, 84.9	6, 7	472
1239		(8.8)	16 28.21	3.2710	+ 152	+1.21	14 50 30.1	+16.602	—275	+27.3	90.9	3	389
1240		8.1	16 27.98	3.5580	+ 288		32 56 17.4	+16.603	—298		91.5, 88.4	4	433
1241		7.8	16 27.55	4.2554	+ 765		57 38 4.8	+16.603	—355		71.1, 74.1	2	566
1242		8.8	16 26.00	5.2769	+1842		71 13 11.3	+16.605	—438		96.6	3	139
1243		7.5	16 31.53	4.1312	+ 664		54 41 9.6	+16.600	—345		98.9, 91.9	2, 4	539
1246		8.7	16 49.29	3.8641	+ 470		46 29 40.4	+16.585	—324		99.0, 01.6	2	566
1248		(8.5)	17 11.92	3.8944	+ 489		47 29 58.0	+16.567	—327		67.5	2	624
1250		8.2	17 39.30	3.2182	+ 131	— 60	10 55 59.7	+16.544	—272	0.0	75.6	4	321
1254		8.5	17 49.08	3.9321	+ 513		48 39 43.9	+16.536	—331		68.0	2	670
1255		8.2	17 50.40	4.1027	+ 636		53 43 0.8	+16.535	—346		53.6	2	526
1261		(8.6)	18 38.75	3.2615	+ 148		13 58 42.7	+16.495	—277	— 7.5	80.5, 78.7	4	389
1262		4.6	18			— 03	66			+ 1.4	B 550		213
1264		8.1	19 37.36	3.5270	+ 267		30 43 29.1	+16.447	—301		96.8	2	396
1265		(8.8)	19 33.80	4.1178	+ 638		53 49 6.2	+16.449	—351		96.8	2	529
1269		(7.0)	20 3.45	3.2075	+ 126	+ 15	10 0 5.4	+16.425	—275	— 3.0	66.9, 64.5	22, 23	—321
1271		8.2	20 19.96	4.4084	+ 869	00	60 5 44.8	+16.410	—376	0.0	85.8	3	487
1275		6.6	20 37.91	4.1707	+ 673		54 58 31.4	+16.396	—357		75.0	8, 11	557
1275		8.2	20 38.25	4.1707	+ 673		29.8				02.6, 07.7	4	

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1277		(8.4)	21 5.85	+4.2471	+ 730	0.00	56 41 18.9	+16.372	—365	0.0	96.0	3	635
1278		7.8	20 51.69	3.5052	+ 254	00	29 18 41.0	+16.384	—302	0.0	76.9, 72.1	9, 12	418
12894		9.0	21 55.36	3.4937	+ 247	— 62	28 30 29.6	+16.330	—303	+ 2.4	96.8	2	421
12895		8.6	22 0.30	3.3909	+ 200	+1.52	22 18 54.1	+16.326	—294	—20.7	00.2, 97.9	3	353
1280		7.2	22 1.64	4.1809	+ 673	+ 90	54 59 35.2	+16.325	—361	—11.1	81.0, 82.1	7, 9	561
1281		8.0	22 16.80	4.0899	+ 605		52 36 48.8	+16.312	—354		83.8	2	590
1281		(8.5)	17.09				47.2				83.8		
12897		7.3	22 20.71	3.8468	+ 441		44 52 23.9	+16.309	—333		68.3	2	512
1285		6.3	22			— 13	9			— 2.0	S 725		—385
1286		7.2	22 52.54	4.2806	+ 746		57 8 26.3	+16.282	—371		05.3	4	582
12898		8.7	23 4.86	3.8953	+ 469		46 29 4.4	+16.271	—339		08.8	2	581
1289		5.9	23			+ 52	24			— 8.3	B 565		358
1293		9.0	23 53.06	3.3729	+ 190		20 56 55.8	+16.230	—296		94.6, 94.6	3	410
1294		9.1	23 54.13	3.5699	+ 281		32 21 43.1	+16.229	—313		08.8	2	456
1295	p	7.5	24 2.05	4.3256	+ 775	00	57 54 27.8	+16.222	—378		83.9, 94.4	3, 2	585
1295	med.	(8.2)	2.24				28.8			— 6.3	90.1, 90.4	4	585
1297		7.7	24 31.42	4.2854	+ 740		56 59 0.2	+16.197	—376		62.4, 64.2	3	656
12899		7.7	24 31.58	3.7780	+ 396		42 0 25.0	+16.248	—330		93.7	3	—474
1298		(8.6)	24 42.69	3.9585	+ 504		48 18 56.9	+16.188	—348		66.4	2	695
1299		6.5	24 45.40	4.0738	+ 582	— 31	51 45 19.0	+16.185	—358	+ 0.2	79.4	16	588
1301		(7.7)	25 3.94	3.0797	+ 83	— 37	0 32 2.2	+16.169	—273	— 1.2	75.2, 74.6	9, 10	415
1301		6.8	4.50			— 32	23.0				66.5, 67.2	11	
1303	p	(8.7)	25 5.95	3.3265	+ 170		17 49 15.7	+16.167	—294		99.2, 08.6	3, 2	383
1303	ma	8.4	6.04			— 29	9.2			— 3.3	76.9, 71.0	5	
1306	med.	(9.0)	25 33.56	3.6351	+ 312		35 21 31.8	+16.144	—321		83.7, 97.3	1, 2	500
1308	med.	8.9	25 53.32	3.1986	+ 122		9 2 3.8	+16.127	—284		90.2	3, 2	—392
1309		8.8	26 4.55	3.1528	+ 106	00	5 46 46.4	+16.117	—280	—17.4	84.1, 83.4	5, 6	353
1310		7.4	26 8.27	3.5478	+ 267		30 51 25.0	+16.113	—315		06.3	3	409
1313		8.5	26 29.46	3.7354	+ 364	+ 22	39 44 30.2	+16.095	—332	+ 0.6	91.9, 92.2	3	566
12902		8.2	27 33.27	4.7772	+1145		64 47 36.2	+16.040	—425		94.0	2	337
1317		7.6	27 35.44	4.4261	+ 833	00	59 20 9.3	+16.037	—394	0.0	85.8, 84.1	7, 8	519
1318		6.3	27 39.30	3.7252	+ 355	+ 21	39 6 58.1	+16.034	—333	— 1.9	69.9, 81.5	6, 5	573
1320		5.9	27 57.08	3.6732	+ 327	+ 05	36 45 49.6	+16.019	—329	— 0.8	86.9, 76.6	7	519
1321		8.0	27 56.76	5.1415	+1513	00	68 45 30.2	+16.019	—458	0.0	82.9, 85.0	7, 6	177
1328		5.0	29			— 19	5			— 3.1	B 589		—418
1329		(6.5)	29 15.29	4.5996	+ 968	+ 25	62 2 52.5	+15.950	—413	— 2.4	82.6, 84.6	6, 7	—444
1332	p	7.4	29			+1.11	24			— 0.9	B 592		375
1332	s	6.6				+1.02				— 1.0	B 593		376
1340		6.3	30 34.22	3.6917	+ 331	— 32	37 11 3.7	+15.880	—336	— 3.7	89.1, 86.1	4	588
1341	p	(8.3)	30 46.33	4.8337	+1168	+1.80	65 6 21.5	+15.869	—438	— 8.3	86.3	7	284
1341	s	(8.3)	47.16	4.8338	+1168	+1.58	17.6:	+15.868	—438	— 3.5	93.9	3	284
1342	G. B.		30 56.79	4.5450	+ 908		60 56 34.6	+15.859	—413		56.2, 61.4	2	540
1342	s	(7.8)	30 56.77				34.7				84.8	6	
1345	s	7.8	31 11.12	4.5348	+ 898		60 44 28.0	+15.847	—412	+ 2.4	84.7	5	541
1346		7.0	31 13.36	3.6019	+ 285		32 52 33.9	+15.845	—329	— 3.4	90.6, 73.4	5, 6	478
1347		(7.5)	31 36.27	3.3580	+ 178	— 18	19 11 7.1	+15.824	—308	0.0	83.0, 78.6	8, 10	394
1350		9.4	32 3.11	3.2913	+ 153	— 32	14 53 46.9	+15.800	—302	+ 8.8	74.6, 77.9	4, 3	438
1353	pr	7.3	32 8.14	3.2825	+ 150	+ 13	14 19 8.7	+15.796	—302	0.0	81.3, 83.0	11	439
1353	mi	(9.8)	8.55		+ 149		10.8	+15.795			83.3	2	
1354		8.2	32 15.66	3.2772	+ 147	—1.09	13 57 49.2	+15.789	—300	— 6.6	51.6	2	422

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1355		7.8	32 16.52	+3.6160	+ 290	—0.26	33 24 33.2	+15.788	—332	— 3.7	93.2, 90.6	8, 9	481
1356		(7.9)	32 19.41	3.1937	+ 119	00	8 22 43.4	+15.786	—294	0.0	88.7, 87.7	10,11	407
1363		8.9	33 20.56	3.6379	+ 299		34 17 54.8	+15.730	—336		99.7, 98.4	5, 6	492
1364		5.4	33			+ 53	26			— 3.4	B 606		443
1365		8.1	33 24.95	3.4784	+ 226	+ 73	26 5 0.5	+15.726	—322		86.7, 85.7	5, 4	—436
1367	p	(9.0)	33 34.12	3.7623	+ 361	— 28	39 43 45.4	+15.718	—348		93.2, 13.3	2, 3	603
1369		7.1	33 31.82	6.1438	+2668		74 52 33.6	+15.720	—563	— 3.3	91.5, 93.2	5, 6	117
1370		8.5	33 52.40	4.0249	+ 512		48 52 46.1	+15.702	—372		66.7	2	737
1372		8.0	33 56.84	3.8281	+ 396		42 15 18.5	+15.697	—354		73.1, 75.1	2	589
1373		8.0	34 4.50	3.8265	+ 395		42 10 15.3	+15.690	—354		89.9, 72.5	4	591
1374	med.	6.9	34 6.98	3.3471	+ 172	— 24	18 15 47.2	+15.688	—311		71.0, 72.0	3, 2	337
1375		8.0	34 11.78	3.8267	+ 394	00	42 9 45.9	+15.684	—355		72.9, 76.8	6, 7	598
1376		6.1	34 11.81	4.1775	+ 610	+ 60	52 59 28.1	+15.684	—386		87.5, 84.4	9	616
1378		(7.8)	34 23.87	3.1355	+ 101	+ 05	4 19 59.8	+15.673	—292	— 2.6	80.7	7	425
1382		8.2	34 32.18	3.7264	+ 340	+ 39	38 5 10.1	+15.665	—346	—10.0	03.1	2	—604
1383	p	(8.2)	34 34.72:	3.7659	+ 361	+ 43:	39 43 13.2	+15.663	—350	0.0:	75.4, 76.4	4	611
1383	ma	8.1	35.76	3.7661		+ 21	33.9	+15.662		— 3.0	76.0, 78.2	7	612
1384		6.6	34 39.09	3.9912	+ 488	00	47 43 47.6	+15.659	—370	0.0	89.5, 81.4	6, 7	683
1389		9.1	35 10.37	4.3390	+ 719	00	56 31 33.2	+15.630	—403	0.0	89.4	5	705
1390		5.7	35			+ 22	19			— 4.7	B 615		403
1391		8.8	35 17.50	4.1231	+ 570		51 25 29.0	+15.624	—384		77.3	3	621
1393		4.2	35			+2.27	48			— 9.1	B 617		746
1396		7.7	36 17.08	4.3233	+ 702	— 26	56 1 58.5	+15.568	—404		02.1	2	—702
1398		6.4	36			+1.07	25			0.00	S 803		441
1401	A	3.6	36			— 98	2			—15.0	B 622		422
1401	B	(6.8)	36 48.60	3.1122	+ 94	—1.03	2 42 20.4	+15.540	—294	—12.5	82.6, 84.0	7	422
1402		8.7	36 50.27	3.3874	+ 185		20 27 5.1	+15.539	—319		93.8	2	453
1405		7.1	37 11.96	3.5403	+ 248	+ 20	28 55 51.4	+15.519	—333	— 8.1	77.9, 75.1	7	455
1406		8.0	37 33.66	4.1833	+ 599		52 38 1.4	+15.499	—394		01.2	3	624
1407		7.9	37 57.05	5.7506	+2064	— 37	72 23 20.9	+15.477	—540	+ 3.0	95.3	3	145
12912		7.8	38 11.49	3.2799	+ 146		13 42 30.6	+15.464	—311		01.7, 01.3	8, 7	442
1414		(9.5)	38 39.38	3.9733	+ 464		46 33 23.8	+15.438	—376		89.0	2	633
1417		8.8	39 5.30	3.0876	+ 87	— 48	1 1 32.4	+15.414	—295		99.9	5	—456
1418		6.3	39 22.54	3.6727	+ 304	— 27	35 1 46.8	+15.398	—350	— 6.3	83.0, 88.4	8, 9	—513
1419		9.0	39 22.97	4.0771	+ 524		49 33 10.8	+15.397	—387		95.7, 88.6	3, 2	773
1421		7.5	39 44.54	4.8402	+1090		64 6 26.6	+15.377	—460		91.4	8, 7	351
1422		7.2	40 12.70	3.5521	+ 248	00	29 9 11.9	+15.350	—339	0.0	80.3	5	471
1424		8.1	40 15.76	3.5797	+ 260		30 31 42.0	+15.348	—343		07.3, 07.9	3	445
1426		7.4	40 19.70	4.0508	+ 504	+ 48	48 39 35.6	+15.344	—387	0.0	85.1, 80.9	5, 4	762
1427		(8.2)	40 24.00:	3.3663	+ 175	+1.39	18 51 9.4:	+15.340	—323	—1.34:	97.1	3	347
1427		7.0	24.24			+ 95	6.7			—14.9	88.3, 91.2	7	
1428		8.5	40 48.04	4.2344	+ 618		53 24 15.5	+15.317	—405		07.9	4	576
1429		(8.8)	40 53.60	3.2199	+ 125	+ 61	9 42 9.4	+15.312	—310	+ 3.6	82.3	4	362
1431		(9.1)	40 58.31	4.5610	+ 851	— 49	59 52 49.1	+15.308	—436	— 2.2	82.6, 82.4	3	549
1432		(9.0)	41 7.67	3.1529	+ 105		5 19 57.0	+15.299	—304		91.5	2	394
1437		7.8	41 28.35	4.0435	+ 496	+ 51	48 16 49.6	+15.279	—388		92.5	2	765
1438		7.1	41 30.52	4.5662	+ 851	00	59 53 50.4	+15.277	—438	0.0	89.9	6	552
1440		3.9	41			+ 17	55			— 1.6	B 639		714
1441		8.7	41 37.22	4.5652	+ 849		59 51 57.7	+15.271	—438		95.7, 86.8	3, 3	553

2h

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1442		8.5	41 42.18	+3.6567	+ 292		33 59 15.5	+15.266	—352		92.9	3	519
1445		7.2	41 48.84	3.6445	+ 287	+0.14	33 24 50.6	+15.260	—351	0.0	81.4, 80.9	4, 5	521
1446		(8.9)	41 53.21	3.7220	+ 323	— 51	36 49 35.1	+15.256	—359		12.0, 09.3	3	568
1448		5.3	42			+ 05	16			— 2.1	B 641		355
1449		6.7	42 31.07	3.5750	+ 255	00	30 0 25.3	+15.220	—346	0.0	82.1, 84.0	11, 10	—481
1450		3.7	42			+ 05	26			—11.3	B 643		471
1451	bor.	(8.6)	42 56.92	3.2519	+ 135		11 38 0.6	+15.195	—316		07.0	2	397
1452	med.	(7.9)	43 10.77	3.2015	+ 119		8 25 9.0	+15.182	—312	— 4.9	64.7, 59.4	2, 3	433
1455		7.4	43 18.23	4.5834	+ 852		59 57 16.5	+15.175	—444		59.2	2	559
1456		8.6	43 37.76	3.1668	+ 109		6 9 57.0	+15.156	—309		95.0	3	433
1457	A	7.7	43 45.21	5.8297	+2056	+ 99	72 22 28.7	+15.149	—564	— 4.8	92.6	5	152
1457	AB	(8.0)	45.46			+1.18				— 2.1	70.9, 64.2	5	640
1459		6.4	44 0.56	4.2146	+ 590	00	52 28 54.0	+15.134	—410	0.0	67.4	4	581
1463		9.4	44 17.04	3.7289	+ 321	—1.25	36 46 46.0	+15.119	—364	— 1.2	93.8, 93.6	4, 3	
1465	G. B.	(8.0)	44 51.27	3.1113	+ 94	— 09	2 32 23.1	+15.086	—305		89.4	5	438
1466		6.5	44 50.67	4.0524	+ 488	00	48 3 19.2	+15.087	—396	0.0	70.5, 71.9	7, 8	—723
1468		4.1	45			+ 04	52			— 0.8	B 653		641
1470		6.7	45 36.20	4.0088	+ 461	00	46 38 52.7	+15.043	—393	— 3.4	81.8, 86.2	6	652
1471		5.3	45 49.62	3.7595	+ 332	+ 39	37 49 35.7	+15.030	—369	— 8.4	73.9, 73.4	17	655
1472	med.	(7.9)	46 3.00	3.1648	+ 108	— 22	5 57 38.6	+15.017	—312	0.0	64.8, 69.1	4	406
1474	med.	(8.7)	46 7.35	3.2310	+ 127	+ 32:	10 9 19.5	+15.013	—319	+ 4.6:	86.4, 90.2	4, 3	385
1475		8.7	46 21.58	3.7061	+ 306	+ 19	35 31 45.0	+14.999	—365	— 0.1	95.7, 95.9	4	586
1476		8.1	46 23.17	3.6094	+ 264		31 11 3.5	+14.997	—356	— 3.6	99.8	7	499
1480		9.0	46 49.07	4.5159	+ 779	00	58 21 44.0	+14.972	—445	— 2.6:	84.8, 81.2	5, 6	530
1481		7.8	46 46.06	3.7480	+ 325		37 13 49.8	+14.975	—370	— 2.0	81.5, 94.6	2, 3	659
1482		7.8	46 44.20	5.3513	+1494	+1.98	68 41 20.9	+14.977	—525	+ 6.5	82.1	5	209
1483		8.6	47 41.99	3.2179	+ 123	— 52	9 15 41.3	+14.921	—320	+ 7.1	00.2, 99.2	7	370
1485		6.7	47 58.73	3.5322	+ 230	00	27 12 47.0	+14.905	—351	0.0	80.2, 76.5	4	455
1486		8.9	48 0.99	3.6994	+ 300	+ 18	35 1 38.7	+14.902	—368	— 5.1	91.6, 91.8	3	—542
1487		8.4	48 5.42	3.6752	+ 289		33 58 8.0	+14.898	—365		95.9	5	542
1489		6.0	48 7.23	4.0207	+ 460	00	46 39 20.4	+14.896	—399	0.0	72.0, 73.4	11, 12	658
1490		7.4	48 15.35	3.5163	+ 223	+1.90	26 22 14.4	+14.888	—350	—19.6	82.3, 81.7	11, 12	484
12917		8.5	48 47.10	3.2741	+ 139		12 40 11.4	+14.857	—327		88.4	3	410
1492		8.6	49 29.40	3.9429	+ 414	+ 43	44 1 5.7	+14.816	—394	0.0	66.6	4	—607
1493		5.7	49			—1.30	78			+ 1.1	B 669		103
1494		8.8	50 2.16	3.3439	+ 160		16 44 3.0	+14.783	—336		85.0	2	373
12919		7.8	50 10.34	5.8709	+1897		72 5 56.3	+14.775	—586	+ 4.9	91.3	3	154
1500		7.0	51 13.24	4.5942	+ 808	00	59 9 57.2	+14.713	—462	0.0	83.0, 84.9	6	582
1501		7.6	51 20.66	3.4700	+ 203		23 37 52.0	+14.706	—350		95.5, 86.3	5	392
1504		8.8	51 38.12	3.3536	+ 162	+ 22	17 10 29.0	+14.688	—339	— 4.8	85.2, 89.1	3	463
1505		8.2	51 34.48	4.5593	+ 781	00	58 32 11.0	+14.692	—459	0.0	89.3	4	546
1508		6.7	51 43.32	3.4239	+ 186	00	21 6 57.9	+14.683	—346	0.0	70.4, 63.6	12, 15	397
1510	p	5.4	51			+ 23	51			— 2.7	B 678		665
1510	s	6.8											
1512		4.6	52			— 11	20			— 0.8	B 674		484
1516		8.8	52 27.52	3.5338	+ 225		26 48 6.4	+14.639	—359		86.9, 92.3	3	495
12923		9.2	52 34.13	5.3370	+1410		68 1 3.4	+14.633	—538		88.5	2	—239
1517		7.4	52 45.11	3.1709	+ 108	00	6 9 11.0	+14.622	—323	— 6.8	77.8	6	460
1519		9.3	52 50.12	3.9686	+ 418		44 23 58.4	+14.617	—402		68.2	2	612

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
1520		9.2	52 49.85	+3.6702	+ 279	s	33 9 17.2	+14.617	—373	″	09.8	2	557
1521		6.0	52			—1.98	80			+ 0.2	B 687		97
1525	ma	9.0	53 27.06	3.3016	+ 145		14 1 57.4	+14.580	—337		90.8	2	—490
1526		6.9	53 30.05	3.3619	+ 164	00	17 30 25.9	+14.577	—343	— 3.2	76.9, 67.8	14, 17	471
1529		7.4	53 31.11	6.5755	+2786	+ 35	75 18 45.3	+14.576	—665	+ 3.3	96.6	5	124
1530		6.7	53 51.22	3.6451	+ 267	+ 33	31 55 0.3	+14.556	—372	— 5.2	81.6, 87.6	7	526
1534		8.5	54 10.21	3.8700	+ 363		40 53 46.6	+14.537	—395		68.8	2	651
1535		8.5	54 18.54	4.9023	+1018	00	63 16 11.4	+14.528	—499	0.0	79.7	6	387
1537		8.5	55 2.24	3.2412	+ 127	+ 17	10 21 27.4	+14.484	—333	— 9.9	75.7	3	402
1544		3.1	55			+ 03	53			— 0.9	B 694		—564
1548		8.6	56 31.84	3.5676	+ 233		28 1 3.8	+14.393	—368		88.2, 87.9	4, 5	—471
1552		8.3	57 11.34	3.7089	+ 287		34 17 18.0	+14.353	—384	—20.3	96.9	2	567
1555		7.3	57 29.59	3.9507	+ 395	— 10	43 12 50.1	+14.335	—409	0.0	81.8, 78.2	4, 5	628
1556	s	8.7	57 39.15	3.5577	+ 227		27 25 26.4	+14.325	—369		89.6	3	474
1559		6.1	58			+ 03	24			— 1.4	B 702		431
1560		9.0	58 33.77	3.1830	+ 110		6 43 28.5	+14.269	—332		90.4	2	474
1563		8.5	59 29.49	3.4184	+ 178	00	20 9 18.7	+14.212	—358	— 7.0	82.8, 82.1	8	505
1564		8.5	59 43.09	3.4230	+ 179		20 22 40.9	+14.198	—359	— 3.3	88.2	3	507
1565		var	0			+ 06	40			+ 0.3	B 708		673
1566		8.3	0 8.36	3.7461	+ 298	— 42	35 27 51.8	+14.172	—393		11.6, 12.2	3	628
1568		7.7	0 15.69	5.8330	+1793	00	71 4 37.2	+14.164	—608	+ 1.2	80.9, 79.4	6, 5	—230
1570		7.4	0 22.08	4.9557	+1010	+ 64	63 18 37.9	+14.158	—518	— 9.6	88.9, 94.3	5, 6	398
1572		8.5	0 38.26	3.2040	+ 115	+ 65	7 54 44.3	+14.141	—337	— 3.4	75.8	3	476
1574		9.2	0 42.37	3.9807	+ 401		43 46 14.5	+14.137	—418		70.7, 61.2	2, 3	636
1575		(8.8)	0 46.31	3.4964	+ 202	— 34	24 5 35.4	+14.133	—368	0.0	89.2, 93.6	6	438
1576		7.8	0 34.76	7.5419	+3949	00	78 1 40.9	+14.145	—786	0.0	87.9, 91.2	7	—111
1577		7.6	0 56.30	3.7364	+ 292	+ 31	34 58 40.7	+14.122	—393	— 1.4	84.4, 83.4	7	585
1579		(6.8)	1 46.97	6.2669	+2235	— 71	73 23 43.4	+14.070	—657	0.0	77.7, 81.9	7, 10	172
1583		(8.3)	2 31.07	3.1893	+ 111	00	6 58 50.8	+14.024	—338	— 2.5	69.9, 70.4	7, 6	486
1583		(8.5)	32.72	3.1889	+ 111		57 33.5	+14.022	—338		79.2, 78.4	5	487
1584		7.8	2 54.42	3.4449	+ 183	00	21 16 9.5	+13.999	—366	0.0	81.9, 81.7	8	413
1586		8.9	3 21.15	5.2831	+1245		66 32 52.03	+13.972	—558		92.7	2	249
12927		8.6	3 49.44	5.2062	+1177		65 45 22.8				91.5	2	330
1590		8.5	3 59.43	3.4597	+ 187	+ 56	21 56 41.0	+13.931	—369	—13.8	98.0	4	418
1591		8.6	3 59.19	3.7612	+ 296		35 37 0.8	+13.932	—401		04.2	3	643
1594		7.4	4 13.78	3.7909	+ 308	— 22	36 44 39.1	+13.916	—404	— 3.3	90.4, 82.6	5	650
1595		(8.8)	3 46.91				83 35 28.2				08.7, 91.1	3	78
1595		8.2	55.95			+2.31	35 6.8		0.0	— 4.5	87.4	6	79
1596		8.8	4 23.69	3.7857	+ 306	— 22	36 31 21.9	+13.906	—404	— 0.2	92.2, 92.4	3	651
1598		8.1	4 33.14	3.9972	+ 398	+ 71	43 48 55.8	+13.896	—426	— 4.0	69.2, 81.8	6	653
1600		(8.7)	4 46.31	4.4139	+ 617		54 16 41.7	+13.882	—470		90.1	2	652
1601		5.5	5			+ 45	77			— 4.9	B 721		115
1605	p	8.6	5 30.80	3.8470	+ 329	+ 18	38 40 38.0	+13.835	—412	— 5.0	80.6, 81.4	6	667
1607		5.9	6			+ 01	56			+ 0.4	B 724		798
1610		7.9	6 20.50	4.7254	+ 802	— 31	59 34 5.5	+13.783	—507	0.0	72.8, 73.7	6, 5	618
1614		6.4	6 36.10	5.1755	+1126		65 11 32.61	+13.766	—555		74.3, 71.7	16, 18	338
1616		6.7	6 52.79	4.2525	+ 518	00	50 29 23.4	+13.748	—457	— 3.0	78.1, 74.4	8, 11	725
1617		6.9	7 0.68	3.4753	+ 189	+ 45	22 29 6.5	+13.740	—375	0.0	79.2, 76.2	11, 9	457
1619		8.5	7 8.03	3.7610	+ 291		35 15 19.7	+13.732	—406	— 1.4	07.1, 64.9	2, 1	651
1622		9.2	7 30.09	3.8403	+ 321	+ 26	38 12 22.2	+13.709	—415		08.3, 14.0	2, 3	677

Bu-. Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1623	G. B.	(8.2)	7 37.05	+3.0769	+ 85	+0.51	0 16 16.4	+13.701	—334	0.0	89.0, 93.1	11, 10	542
12930		8.5	8			+ 83	15			— 7.3	C 592		452
1627		6.4	8 12.06	3.7379	+ 279	+ 31	34 13 27.9	+13.664	—405	— 3.7	80.8, 74.2	5, 7	610
1628		6.7	8 7.69	5.6572	+1516	00	69 16 14.3	+13.669	—610	0.0	77.6, 73.8	12, 14	+205
1629		8.7	8 11.32	7.6986	+3926	— 33	78 3 24.6	+13.665	—828	0.0	94.5	4	—117
12931		7.8	8 17.51	5.3538	+1252		66 46 36.0	+13.658	—578		93.5	2	253
1630		8.5	8 52.52	3.6896	+ 260		32 10 23.9	+13.621	—401		87.8, 92.5	4	594
1633		6.4	9 1.60	3.8968	+ 342	00	40 1 15.9	+13.611	—423	—3.3	81.4, 83.1	12, 13	—743
1633		(7.8)	1.79				18.7;			—8.9:	90.1, 86.2	2, 4	
1639		7.3	9 39.75	3.8463	+ 319	+ 48	38 10 43.4	+13.570	—419	—4.0	86.8, 92.6	4, 3	689
1641		8.4	10 2.66	4.1136	+ 437		46 33 58.7	+13.545	—448		71.7	4	727
1642		9.0	10 4.85	5.5181	+1370	+ 76	68 2 38.2	+13.543	—599	0.0	87.1	4	—259
1644		7.4	10 44.54	3.1970	+ 111	+1.16	7 11 41.9	+13.500	—350	— 1.4	90.1, 91.3	5, 6	493
1652		(7.8)	11 52.94	4.9619	+ 924		62 16 35.7	+13.426	—543		62.5, 65.7	3	551
1654		(8.8)	11 59.22	4.4241	+ 589		53 41 10.4	+13.420	—485		94.6, 00.6	5, 4	647
1655		9.3	12 3.45	4.1094	+ 429		46 13 27.2	+13.415	—451		59.2, 76.6	2, 1	734
1658		9.0	12 41.50	3.4600	+ 179		21 15 55.1	+13.374	—382	— 6.0	94.8	3	439
1660		7.6	12 46.49	5.4205	+1260	+ 86	67 0 16.7	+13.369	—595	0.0	73.0, 69.9	4, 5	—265
1662		7.5	12 58.36	4.0673	+ 406		44 55 59.4	+13.356	—448		59.0	2	677
1663		7.4	13 2.01	3.5005	+ 191	00	23 14 10.8	+13.352	—387	— 8.5	80.8, 83.9	10, 9	442
1664		8.0	13 11.07	3.4213	+ 167	+ 24	19 16 30.8	+13.342	—378		72.5, 90.7	4, 5	509
1664		(7.7)	11.56			00	33.9			0.0	53.8, 76.7	5	
1668		7.9	13 26.53	3.4109	+ 164	00	18 43 34.6	+13.325	—377	0.0	82.4	5	461
1669		9.2	13 25.06	4.8232	+ 820		60 17 29.1	+13.326	—531		68.5	2	673
1670		(10.5)	13 33.02	3.4600	+ 178		21 12 10.0	+13.318	—383		99.0	3	442
1670		9.0	33.07				9.8				90.4, 90.3	2	
1674		8.8	14 21.36	3.4633	+ 179		21 18 21.1	+13.265	—385		97.8	3	443
1676		7.9	14 26.14	3.0847	+ 86	+ 71	0 42 47.6	+13.260	—343	— 2.9	85.6	5	570
1677		9.2	14 37.07	4.6774	+ 722	— 27	57 58 57.6	+13.248	—518	0.0	81.7	6	721
1678		8.3	15 0.83	3.2190	+ 114	— 27	8 18 28.0	+13.222	—359	+ 3.1	89.1	5	500
1679		7.8	15 15.04	3.6384	+ 232		29 22 9.6	+13.206	—405		92.0	3	552
1679		(8.5)	15.80				7.2					3	
1683		7.4	16 6.86	3.4501	+ 173	00	20 31 21.6	+13.149	—386	0.0	80.4	7	554
1685		9.1	16 39.80	3.6521	+ 235		29 49 16.7	+13.113	—409	+ 3.0	53.2	2	557
1686		5.6	16 40.94	3.7315	+ 262	00	33 5 27.3	+13.112	—417	— 4.4	76.9, 76.3	9	636
1689		6.5	17 4.48	3.1508	+ 99		4 26 8.3	+13.086	—354		90.3, 86.6	6, 7	532
1690		7.6	17 3.38	4.0878	+ 404	+ 34	45 4 16.6	+13.086	—457		10.2, 94.6	3, 4	—695
1691		8.1	17 10.15	3.3841	+ 154	— 28	17 6 20.1	+13.079	—380	— 5.3	87.1	4	545
1691		(9.0)	10.45			— 16	17.2			— 5.0	86.0	3	
1698		7.5	18 23.25	4.7984	+ 773	+ 31	59 28 2.8	+12.998	—539	0.0	81.1, 76.7	4, 6	658
12938		8.5	18 31.77	6.1032	+1782	00	71 25 27.2	+12.989	—684	0.0	79.4, 86.3	6	204
1701	med.	(8.7)	18 33.58	4.5129	+ 608		54 44 6.9	+12.987	—507		73.8	3	682
1703		4.4	19			+ 03	59			— 0.1	B 781		660
12937		8.1	19 17.29	3.2901	+ 129		12 2 29.1	+12.938	—372		71.4, 71.7	3, 2	—474
1705	G. B.	(7.7)	19 40.44	4.2913	+ 489		49 59 55.0	+12.912	—484		77.2	2	941
1708		(6.9)	20 8.29	4.7730	+ 747	+ 32	58 55 56.5	+12.882	—539	— 4.0	86.7, 84.7	7, 8	608
1709		4.7	20			+ 29	49			— 3.3	B 790		945
1710		7.5	20 23.08	5.5066	+1248	00	67 9 12.7	+12.865	—622	0.0	93.3	5	273
1711	p	5.0	20 28.91	4.5384	+ 612	— 61	55 1 2.1	+12.858	—514	— 2.0	76.6, 83.3	21, 19	—684
12939		8.8	20 26.79	+3.8510	+ 299	— 43	37 12 17.9	+12.861	—436	— 3.1	11.4, 13.7	4	772

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
1713	G. B.	(7.4)	20 40.16	+4.0852	+ 392	s	44 36 49.2	+12.846	—463		57.3, 48.2	2	714
1714		7.5	20 43.86	+3.9263	+ 327	+0.47	39 45 0.9	+12.842	—446	″	01.6, 11.8	2, 3	790
1715		6.5	20 43.50	+4.1545	+ 422	+ 18	46 30 13.0	+12.842	—471	— 5.4	86.9, 94.2	8, 6	760
1716		6.7	20 49.26	+3.4466	+ 168	+ 00	20 1 38.1	+12.835	—392	0.0	75.8, 80.9	12, 11	—537
1716		(8.0)	20 49.46				1 29.9				45.8, 70.5	2, 1	
1718		7.4	21 1.86	+4.4101	+ 542	+ 26	52 27 43.5	+12.821	—500	— 5.3	78.3	3, 4	699
1719		8.7	21 2.75	+3.6334	+ 223	+ 24	28 37 34.9	+12.820	—413	+ 4.5	88.2	3	535
1720		6.1	21			+ 06	22			—11.1	B 792		495
1724		6.8	21 46.55	+3.2718	+ 124	00	10 57 22.7	+12.771	—373	0.0	67.0, 66.2	10, 10	444
1726		9.0	22 14.17	+3.4620	+ 171	00.	20 40 46.5	+12.740	—395	0.0	85.3	4	574
1729		6.8	22 44.74	+4.1984	+ 435	+ 25	47 25 58.0	+12.706	—479	— 2.6	75.7, 76.7	12	846
1730		(8.0)	23 17.38	+3.4428	+ 165	+1.30	19 40 26.5	+12.669	—395	— 5.6	93.0, 93.2	10, 9	547
12941		8.7	23 21.55	+3.6512	+ 226	— 83	29 10 58.2	+12.664	—418	+ 3.9	98.2	2	570
1731		(8.0)	23 28.03	+3.6074	+ 212	+ 34	27 17 41.0	+12.657	—414	— 3.0	82.3, 90.2	6, 5	513
1731		(8.0)	30.68	+3.6076		+ 21	18 8.2	+12.654			70.1, 71.5	5, 4	514
1732		8.4	23 30.06	+4.7544	+ 716	— 07	58 20 11.0	+12.654	—543	— 4.9	16.3, S 7		618
1732		(7.1)	32.38	+4.7544	+ 716	— 09	20.3	+12.652	—543	— 4.1	16.3, S 7		619
1733		5.9	23			+ 27	27			— 3.0	S 1065		515
1734		8.0	23 41.13	+4.7227	+ 697		57 50 12.6	+12.642	—540		90.0	2	729
1735		9.0	23 44.12	+4.8689	+ 782		59 58 57.9	+12.638	—557		75.0	2	671
1738	bor.	7.2	24 2.37	+3.4372	+ 163		19 21 11.0	+12.618	—395		90.5, 87.1	3	549
1738	G. B.		2.34			00	8.3			+ 3.9:	85.4, 74.0	6, 4	
1740		(8.8)	24 11.94	+3.4796	+ 174		21 23 39.6	+12.607	—400		02.2	5	474
1742	ma	7.9	24 12.31	+3.1581	+ 99	00	4 43 24.2	+12.606	—364	0.0	80.7, 83.0	7, 6	544
1742	s	(9.0)	12.86				18.7				94.4	3, 3	
1747		6.5	24 49.37	+4.8495	+ 763	— 50	59 37 0.3	+12.565	—557	0.0	86.4, 78.3	8, 10	675
1749		(8.8)	25 7.35	+4.4644	+ 552		53 9 21.9	+12.544	—513		92.6	2	678
1750		6.7	25 21.14	+3.2774	+ 123	+ 23	11 7 2.1	+12.528	—378	— 7.2	66.4, 66.6	4, 6	487
1751		7.2	25 19.41	+4.2395	+ 445	+ 10	48 11 38.2	+12.530	—488	— 5.0	85.9, 86.4	3	949
12943		8.5	25 53.04	+3.3549	+ 141	00	15 7 21.0	+12.492	—388	+ 3.8	90.4, 85.0	5, 6	499
1755	A	8.3	26 2.88	+3.5153	+ 182	00	22 56 41.0	+12.481	—407	— 3.2	77.4, 76.4	8	504
1755	C	8.5	5.83	+3.5157	+ 182		57 39.3	+12.477	—407		74.2, 75.0	3	505
1757		8.7	26 9.03	+3.7178	+ 242	00	31 39 36.7	+12.474	—430	0.0	95.1	5	614
1761		5.9	27			+ 13	24			— 2.7	B 815		—473
1764		6.6	27 14.04	+3.7186	+ 241	+ 42	31 35 49.7	+12.399	—432	0.0	60.7, 75.4	18, 16	616
1764		(8.8)	16.33				27.8				79.6	4	
1766		8.1	27 16.42	+3.4418	+ 161	— 34	19 22 35.6	+12.397	—400		91.8	4	554
1770	med.	(7.8)	27 30.63	+3.7620	+ 254		33 15 21.1	+12.380	—437		70.2, 78.3	5	680
1771		(8.5)	27 44.90	+3.4427	+ 161		19 23 24.9	+12.364	—401		88.4, 87.0	4, 3	556
1772		8.5	27 49.24	+3.5956	+ 202	00	26 25 52.2	+12.359	—418	0.0	82.9	4	574
1774		6.8	27 51.52	+3.7115	+ 238	+ 52	31 15 38.8	+12.356	—432	0.0	71.6, 68.1	17, 17	619
1776		7.8	28 30.80	+3.6709	+ 224	— 17	29 33 57.1	+12.311	—428		81.2	3	579
1779		8.7	29 6.61	+3.5320	+ 183	00	23 29 46.1	+12.270	—413	0.0	72.8, 76.2	5	482
1781		(7.0)	29 0.42	+5.1891	+ 944	+1.86	63 27 46.0	+12.277	—604	—14.4	90.0, 88.4	5	437
12944		9.3	29 43.32	+3.2547	+ 116	+ 23	9 46 12.9	+12.227	—381		76.5	3	459
1783		(8.0)	29 42.01	+4.1095	+ 376	+ 17	44 23 20.3	+12.229	—480	— 3.0	67.1, 71.0	7, 6	757
1783		(8.0)	45.81	+4.1097	+ 376	00	23 16.2	+12.225	—480	— 4.4	73.1, 73.3	6	759
1784		(9.1)	29 51.88	+3.1805	+ 191		5 49 53.4	+12.218	—373		94.6	2	518
1787		6.1	30 22.50	+3.0756	+ 82	— 23	0 10 40.7	+12.182	—361	—15.2	60.9, 65.5	43, 39	616
1788		7.1	30 15.92	+5.9025	+1446	00	69 26 19.9	+12.190	—689	0.0	82.6 (B 823)	7	222

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1788		(7.2)	30 16.62	+5.9026	+1445		69 26 19.2	+12.189	—689		90.1	3	222
1789		9.1	30 26.98	+7.0226	+2475	+3.46	74 56 57.6	+12.177	—819	— 5.5	96.3	6	167
1792		8.9	31 35.79	+3.6284	+ 207	— 16	27 32 46.6	+12.097	—427	0.0	77.6, 77.0	5, 6	540
1793		(7.7)	31 40.96	+3.5537	+ 186		24 17 37.4	+12.091	—419		89.8	5	527
1797	G. B.	.	31 57.20	+4.1630	+ 391		45 36 53.5	+12.072	—490	0.0	71.5, 69,8	6	795
1797	ma	7.5	57.27			00	52.9				05.6, 06.2	2	
1799	ma	6.8	32 12.94	+3.7850	+ 254		33 42 27.4	+12.054	—446		66.3, 65.5	3	690
1799	med.	(7.3)	12.94			— 54	27.3			0.0	90.1, 79.9	5, 6	
1800		6.3	32			+ 30	16			— 3.9	B 829		484
1801		8.1	32 17.78	+5.4257	+1072		65 34 31.4	+12.048	—638		96.0	3	359
1802		6.0	32	+4.8921	+ 740		59	+12.039	—575	+ 0.2	B 832		699
1803		8.4	32 33.55	+4.1603	+ 388		45 29 19.4	+12.030	—491		78.3	1, 3	798
1804		(8.9)	32 36.04	+4.5551	+ 563		54 11 21.8	+12.027	—537		90.0	2	705
1805		7.6	32 36.30	+3.9297	+ 301	+ 40	38 42 37.8	+12.027	—464	— 1.2	88.9, 74.7	6	782
1808		8.3	32 51.80	+3.6471	+ 210		28 13 47.8	+12.009	—432		00.1	3	560
1810		6.9	33 0.69	+3.6507	+ 212	+ 17	28 22 3.5	+11.998	—432	— 3.7	78.4, 83.8	7	562
1811		7.2	33 5.14	+3.4835	+ 166	00	20 59 54.3	+11.993	—412	— 3.8	94.6, 91.1	4, 5	607
1812		7.1	33 3.22	+6.2227	+1671	00	71 13 3.2	+11.996	—732	+ 2.1	65.4, 69.0	8	216
1813		(9.0)	33 39.96	+3.6462	+ 209	— 48	28 7 56.0	+11.952	—432	—13.2	97.2, 93.0	5, 6	563
1814		6.7	33 52.15	+3.1609	+ 96	— 04	4 43 11.7	+11.938	—376	0.0	80.8	7, 6	571
1817		8.9	34 11.51	+3.8786	+ 281	— 27	36 51 50.4	+11.915	—460		02.3, 12.2	2, 3	735
1818		5.0	34 27.44	+3.7863	+ 250	00	33 33 43.6	+11.896	—450	0.0	60.0, 59.7	19, 21	698
1820		6.7	34 35.72	+3.7593	+ 242	00	32 32 22.9	+11.887	—447	— 7.6	02.0, 81.6	4, 5	659
12952		9.2	34 46.41:	+3.6781	+ 217	+3.26:	29 21 42.3	+11.874	—438		66.8, 70.0	3, 2	594
1824		(8.7)	34 57.63	+6.0590	+1509		70 9 12.1	+11.861	—718		92.4	5	254
1825		(6.3)	35 8.75	+4.2755	+ 427	00	48 7 25.9	+11.848	—508	0.0	77.2, 76.8	6, 7	984
12953		8.9	35 12.28	+4.2318	+ 409	+ 50	47 3 51.7	+11.844	—503	+ 3.2	81.9	3	878
1826	G. B.		35 37.68	+3.5825	+ 189	— 38	25 16 51.5	+11.814	—427	+ 1.9	87.0, 91.2	3	593
1826	ma	7.1	37.73				51.5				77.6	4	
12954		(9.1)	35 46.52	+3.6762	+ 215	—1.02	29 11 40.9	+11.804	—438	— 6.3	09.5	2	599
1827		7.4	35 45.40	+3.8968	+ 283		37 20 26.7	+11.805	—465		04.3	3	818
1828		8.3	36 3.58	+3.2147	+ 105	+3.00	7 10 9.8	+11.784	—384	+ 3.4	75.7, 75.9	4	537
1829	G. B.	(8.9)	36 8.19	+3.5168	+ 172	+ 39	22 20 11.7	+11.778	—420	— 4.3	86.7	5	535
1832		8.8	36 19.02	+3.7415	+ 234		31 43 23.0	+11.765	—447		96.4	2	641
1834		3.9	36			+ 08	31			— 2.4	B 844		642
1835		8.3	36 32.47	+3.8439	+ 265	+ 34	35 27 30.0	+11.749	—459	— 3.7	00.4, 00.9	2	744
1836		8.2	36 44.48	+3.7435	+ 233	00	31 45 56.0	+11.735	—448	0.0	95.5	5	643
1839		6.7	37 1.33	+3.6372	+ 203	00	27 30 10.0	+11.715	—435	— 7.4	98.0, 01.9	7	556
1840		(8.8)	37 2.15	+3.9871	+ 311	— 35	40 8 0.9	+11.714	—477		93.8	3	829
1841		5.6	37			+ 44	45			— 1.5	B 853		811
1845		9.4	37 40.42	+3.5188	+ 171		22 19 34.2	+11.669	—422		95.5	3	538
1848			37			+ 08	24			— 4.8	B 856		547
1849		8.8	37 41.64	+5.3377	+ 967		64 21 34.0	+11.667	—638	— 4.9	76.1, 77.7	5	408
1852		(8.0)	38 18.59	+3.5191	+ 170	+ 11	22 18 6.1	+11.624	—423	— 5.2	84.4, 87.6	5	544
1853		8.1	38 26.15	+3.5294	+ 173	+ 23	22 45 17.4	+11.614	—425	— 5.6	76.8, 75.7	12, 13	545
1854		8.2	38 30.88	+4.0225	+ 320	+5.22	41 4 47.6	+11.609	—483	—126.4	70.1, 75.4	6, 5	750
1856		8.2	38 50.28	+3.5535	+ 178	00	23 47 54.4	+11.586	—428	— 3.1	79.0, 85.7	8, 7	520
1858		4.2	38			+ 17	23			— 5.4	B 865		522
1859		5.4	39			+ 20	5			— 1.4	B 863		539
1860		(7.4)	38 50.97	+6.0906	+1482	00	70 7 21.0	+11.585	—730	0.0	85.6	7	262

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
1863		8.4	39 2.00	+4.4524	+ 488	+0.25	51 38 55.6	+11.572	—535	— 9.8	93.9	2	777
1864		5.9	39 5.90	+4.3900	+ 461	00	50 20 48.8	+11.567	—528	0.0	83.9, 86.1	9, 11	825
1866		8.6	39 35.91	+3.5691	+ 181		24 25 50.4	+11.531	—431	— 4.2	87.8	3	563
1869		(8.1)	39 48.95	+3.9260	+ 284	— 50	37 57 15.8	+11.516	—474	+ 1.6	79.5	5	830
12957		8.2	39 55.53	+4.2178	+ 388	— 27	46 17 46.3	+11.508	—509		89.5, 78.8	4, 3	800
1871		6.4	39 57.20	+3.7891	+ 242		33 12 38.2	+11.506	—457		70.8, 69.1	4, 7	717
1872		8.4	39 59.45	+3.5660	+ 180	00	24 16 7.7	+11.503	—431	0.0	96.3	6	567
1873		6.9	39 59.33	+3.5490	+ 176	00	23 31 33.7	+11.503	—429	0.0	82.4	4	538
1875		(3.0)	40			+ 14	23			— 4.8	B 869		541
1876		9.0	40 1.96	+4.3776	+ 452		50 0 3.6	+11.500	—528		05.8	3	—1032
1877		6.8	40 2.86	+4.4878	+ 499		52 16 5.3	+11.499	—541		74.8, 72.9	5	714
1879	G. B.	(8.5)	40 14.80	+4.9506	+ 724	+ 27	59 44 14.6	+11.485	—597	0.0	83.8	4	720
1879	ma	8.6	14.95				14.7				75.3	2	
1882		8.1	40 56.63	+3.5158	+ 166	00	21 59 28.1	+11.435	—426	0.0	89.5	4	526
1883		9.4	41 8.77	+3.5569	+ 176	00	23 47 44.7	+11.420	—431	— 4.3	75.7, 89.1	5, 4	554
1885		8.2	41 16.01	+3.7560	+ 230	00	31 52 42.1	+11.412	—455	0.0	98.6, 95.2	4, 5	655
1886		5.0	41			+ 25	10			— 2.3	B 874		486
12958		8.8	41 20.40	+3.9500	+ 289		38 35 49.1	+11.406	—479		06.4, 86.8	3	811
1887		3.8	41			+ 14	23			— 5.0	B 877		557
1888		(8.8)	41 59.56	+3.0956	+ 83	+ 39	1 12 44.4	+11.359	—377		99.2	4	664
1889	p	(8.0)	41 49.98	+3.5628	+ 177	00	24 0 44.7	+11.371	—433	— 4.0	91.3, 86.5	6	560
1889	ma	(7.5)	54.96	+3.5626	+ 177		23 59 50.7	+11.365	—433	— 4.2	86.3, 82.7	9, 10	561
12959		8.6	41 59.26	+3.2929	+ 117		11 19 23.8	+11.360	—401		85.9, 72.9	3	526
1897		6.7	42 32.68	+3.5513	+ 174	00	23 28 0.7	+11.320	—432	— 8.0	78.7, 82.9	10, 13	569
1900		5.4	42			+ 29	25			—10.8	B 883		624
1902		6.8	42 59.51	+3.2478	+ 108	+ 33	9 1 29.8	+11.287	—396		85.4, 97.7	3, 2	—574
1903		8.7	42 57.92	+3.5253	+ 167	00	22 17 46.3	+11.289	—430	0.0	80.4	6	576
1905		8.2	43 15.59	+3.6923	+ 209	00	29 16 36.2	+11.268	—450	— 7.7	91.1	6	635
1906		7.5	43 40.58	+4.0153	+ 305	— 13	40 25 5.7	+11.238	—490		78.7, 84.0	6, 5	847
1912		(8.1)	44 37.83	+3.6104	+ 186	00	25 51 13.2	+11.169	—442	0.0	87.2	4	632
1913	ma	8.0	44 28.89	+5.9856	+1333		69 8 37.3	+11.179	—730		89.2	4	231
1913	s	(8.7)	29.66:			—1.21:	26.1:			— 4.0:	89.7	4	
12963		8.6	44 53.79	+4.2260	+ 376	+ 34	46 4 28.8	+11.149	—517	+ 4.0	85.0	3	816
12966		9.0	45 23.77	+6.3989	+1630	+ 53	71 30 10.1	+11.112	—781		96.0	3	224
1917		8.2	45 28.44	+4.7308	+ 584	00	56 7 57.1	+11.107	—579	— 3.3	92.8	5	856
12964		8.4	45 41.24	+4.2021	+ 365	— 23	45 24 30.0	+11.091	—515		01.4	3	840
1921		2.9	46 16.70			+ 10	31 30 37.3			— 1.7	B 894		666
1922		8.9	46 13.13	+4.4945	+ 477	00	51 53 23.0	+11.053	—552	— 1.9	81.6, 79.6	4	802
1923		8.7	46 19.14	+4.5021	+ 479		52 1 50.6	+11.045	—552		95.1	3	—804
1926		8.8	46 33.55	+3.8525	+ 248		34 56 35.4	+11.028	—474		96.7, 87.3	3, 2	762
1927		5.2	46			+ 02	60			— 1.6	B 897		768
1932		9.0	47 16.50	+3.8488	+ 246		34 45 39.3	+10.975	—475		96.8	2	766
1933		5.5	47			+ 94	50			—13.0	B 900		860
1936		var.	47 34.40	+3.7365	+ 214	00	30 40 32.6	+10.954	—461	0.0	89.6, 89.1	7	591
1937		8.5	47 43.03	+4.2786	+ 386		47 6 58.3	+10.943	—528		92.0, 84.3	4, 3	915
1940		9.1	48 2.22	+3.7672	+ 222		31 47 11.2	+10.920	—466		91.5	2	669
1943		7.9	48 17.40	+3.4210	+ 139		17 15 48.7	+10.901	—423		05.7, 99.8	3	656
1944		8.5	48 31.36	+3.7964	+ 229		32 48 54.8	+10.884	—470		79.2	2	688
1946		8.1	48 35.00	+3.5124	+ 158	00	21 24 0.9	+10.879	—435	0.0	88.5, 76.9	4, 5	555
1948		6.8	48 45.84	+4.0669	+ 310	— 27	41 30 53.5	+10.867	—503	0.0	78.4, 86.4	6, 5	779

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″			″			
1952		5.2	49	s		—0.57	80	″		+ 0.5	B 914		125
1960		8.5	50 43.15	+3.2946	+ 113		11 8 3.6	+10.722	—411		91.2	2	543
12967		8.8	51 6.96	+4.1853	+ 343	+ 82	44 32 24.2	+10.693	—521	—29.3	86.4	2	827
1963		(9.0)	51 8.67	+3.2567	+ 106	+ 28	9 15 48.0	+10.690	—406	— 2.1	66.7	3	521
1964		7.9	51 0.96	+5.2130	+ 791		62 9 24.0	+10.700	—648		60.5	2	640
1966		6.4	51 21.70	+3.9713	+ 274	+ 14	38 27 38.6	+10.675	—495	+ 0.4	70.3	8	829
1967		8.9	51 32.96	+3.3080	+ 115		11 45 39.8	+10.660	—413		93.2	3	548
1973		8.9	52 3.72	+3.6866	+ 195		28 26 47.8	+10.623	—460		98.8	2	606
1976		7.9	52 11.32	+3.2605	+ 106		9 25 25.0	+10.613	—408		92.0	2	523
1980	ma	8.3	52 54.83	+3.2970	+ 112		11 11 13.0	+10.559	—413		75.2	3	554
1980	s	(9.2)	55.22	+3.2970	+ 112		6.1	+10.558	—413		81.6	2	
1981		8.5	53 3.14	+3.1184	+ 84		2 19 27.7	+10.549	—391		01.0	3	635
1982		8.9	52 48.66	+6.5051	+1601		71 41 6.8	+10.567	—811	+ 7.9	97.1	3	229
1983		7.6	53 16.46	+3.9711	+ 270	— 12	38 18 39.7	+10.532	—497	— 1.1	85.7, 86.0	4	832
1985	A	6.5	52			+ 11	22			— 2.8	B 917		617
1985	B	(7.9)				+ 10				— 1.9	B 918		
1986		8.0	53 32.58	+4.0794	+ 302		41 29 45.0	+10.512	—511		96.8	2	795
12970		8.2	53 46.31	+4.2789	+ 367		46 38 42.4	+10.495	—536		67.0	2	836
1988		(9.0)	53 50.58	+3.2438	+ 102		8 33 52.5	+10.490	—408		97.3	2	611
1990		7.5	54 34.31	+3.6735	+ 188	00	27 46 28.2	+10.436	—462	0.0	84.3	5	618
1993	med.	(8.6)	54 34.39	+4.7267	+ 537		55 23 32.2	+10.436	—593		87.3	2	846
1996		6.6	54 46.86	+4.6867	+ 520	+ 54	54 43 10.0	+10.420	—588	—12.4	90.9, 96.0	3, 4	734
1998		5.7	54			+ 04	9			— 0.6	B 925		528
2004		8.5	55 30.81	+3.5297	+ 155	+ 49	21 47 17.9	+10.365	—445	— 7.5	84.0, 88.0	7, 6	577
2007		7.2	55 42.83	+4.0050	+ 274	+1.25	39 9 51.0	+10.350	—505	— 2.3	95.5	3	918
2011		9.0	56 19.62	+7.6387	+2484		75 54 1.2	+10.304	—960		91.9	4	162
2011		(8.5)	23.07	+7.6374	+2482	+0.47	53 41.0	+10.300	—960		90.1	3	
2013		5.7	56			— 03	23			— 2.2	B 933		609
2014	p	7.0	56 49.61	+5.2314	+ 758	— 27	61 59 28.0	+10.267	—660	0.0	76.4, 80.9	9, 10	676
12972		8.7	56 49.58:	+4.2319	+ 342	— 13:	45 16 40.5	+10.267	—534	0.0	80.4	3	868
2018		9.0	57 25.92	+4.4546	+ 418		50 14 4.9	+10.221	—563		85.9	2	901
2019		9.1	57 57.08	+3.6860	+ 186		28 3 8.2	+10.182	—467		97.2	3	—630
2022		6.6	58 55.98	+3.8252	+ 219		33 6 22.4	+10.108	—486		69.4, 69.7	3, 4	785
2024		8.4	59 1.02	+3.2891	+ 107	— 21	10 38 3.7	+10.102	—419	— 9.8	77.1	4	537
2025		8.8	59 0.96	+3.7017	+ 189	00	28 35 29.9	+10.102	—471	0.0	80.0	3	618
2026		8.0	59 5.66	+3.9646	+ 255	— 19	37 41 4.6	+10.096	—504	— 0.6	88.4, 86.8	4	877
2027		7.1	59 14.81	+3.9668	+ 256	+ 81	37 44 36.0	+10.084	—504	—21.7	83.3, 86.7	13, 12	878
2028		(8.6)	59 31.83	+3.3613	+ 119	— 70	14 1 52.7	+10.063	—428	— 8.0	54.9	3	—642
2029		8.4	59 23.33	+4.4468	+ 408		49 56 8.6	+10.074	—565		60.8, 60.3	2	1106
2030		(8.4)	50 25.45	+4.7925	+ 541		56 5 43.7	+10.071	—608		90.8	2	885
2031		7.6	59 46.48	+4.0836	+ 288		41 9 13.2	+10.044	—520		70.0, 71.1	4, 3	815
2033	ma	8.4	59 49.53	+5.0626	+ 657		59 49 23.3	+10.040	—643		69.7	4	763a
2033	s	(9.0)	50.18	+5.0627	+ 657		26.2	+10.040	—643		76.3, 71.5	2, 3	
12975		7.1	59 58.47	+4.2666	+ 344	00	45 53 34.0	+10.029	—543	— 4.9	84.4	3	881
2034		8.4	0 6.10	+3.1806	+ 90	00	5 20 50.3	+10.019	—406	0.0	74.9	4	589
2038		8.6	0 4.04	+5.8900	+1093		67 39 31.2	+10.022	—748		93.1	2	311
2040		5.9	0			+ 87	14			— 3.2	S 1279		657
2041		7.5	0 43.50	+4.0396	+ 273	— 29	39 49 49.9	+ 9.972	—515	— 9.8	92.2, 90.5	5	937
2043		6.1	0 50.03	+3.4270	+ 129	+ 12	17 0 12.4	+ 9.964	—438	— 1.7	B 951		—560
2045		8.6	1 8.08	+3.7120	+ 188		28 51 24.2	+ 9.941	—474		89.9	2	624

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2050		9.0	1 24.72	+3.6982	+ 185		28 18 24.0	+ 9.920	—473	— 3.0	01.1	3	627
2051		(7.7)	1 27.19:	3.5599	+ 155	+0.29:	22 45 48.1	+ 9.917	—456		93.7	5	637
2051		6.8	27.26			+ 15	54.7			— 2.7	89.4	6	
2052		6.9	1 44.25	3.7797	+ 203	+ 45	31 20 0.6	+ 9.895	—484	+ 7.9	87.0	5	714
2053		9.1	1 46.76	3.2379	+ 97		8 6 38.5	+ 9.893	—415		86.3	3	638
2055		(9.1)	2 12.19	3.9173	+ 236		35 58 22.4	+ 9.860	—502		09.3, 09.5	3	810
2056		8.4	2 16.00	3.2866	+ 104		10 25 56.4	+ 9.855	—422		73.0, 69.4	2, 3	541
2059		8.0	2 51.61	4.1051	+ 286		41 31 53.6	+ 9.810	—526		94.5	2	827
2064		8.7	3 36.10	3.6464	+ 170		26 10 18.5	+ 9.753	—469	— 3.4	91.8	3	687
2067		8.6	4 38.79	4.5448	+ 425		51 30 17.6	+ 9.673	—585		89.4	2	883
12979		8.7	4 49.17	3.5269	+ 144	+ 23	21 12 38.2	+ 9.660	—455	+ 4.0	89.3, 90.4	6	606
2068		7.8	5 27.68	3.2649	+ 99		9 19 33.6	+ 9.610	—422		81.6, 84.2	6	546
2070		6.8	5 43.76	3.0807	+ 75	— 17	0 24 39.2	+ 9.590	—399	0.0	77.8	12, 11	710
2073		4.3	6			+ 13	48			— 2.7	B 967		1063
2075		9.0	5 47.66	3.5620	+ 150		22 38 11.1	+ 9.585	—460		02.0, 02.8	3, 4	651
2076		6.9	5 37.06	5.8075	+ 988		66 46 22.5	+ 9.598	—748		96.1	3	316
2078		9.2	5 56.71	5.8736	+1022	— 71	67 14 53.4	+ 9.573	—757		90.5	4	318
2079		8.0	6 14.05	5.3090	+ 728		62 16 25.7	+ 9.551	—685		71.3, 74.1	2, 3	669
2081		6.4	7			+ 07	8				S 1308		651
2083	p	(8.3)	6 49.26	4.2529	+ 319		45 4 54.9	+ 9.505	—551	—27.0	85.4	3	898
2083	s	8.0	49.57				57.4			—20.7	78.8, 72.2	3, 4	
2084		5.0	7			— 05	8			— 3.6	B 972		652
2086		7.4	7 49.43	5.2510	+ 695	00	61 35 54.4	+ 9.480	—679	0.0	86.4	6	692
2088		6.9	7 27.36	4.9944	+ 582	— 50	58 28 36.3	+ 9.457	—647	— 2.7	72.0	5	727
2089		8.5	7 30.22	5.9284	+1036	00	67 34 6.7	+ 9.453	—767	0.0	80.4	4	319
2092		7.4	7 49.37	5.1311	+ 637	00	60 10 53.7	+ 9.428	—664	0.0	81.5, 81.1	4	792
2093	AB	(7.4)	8 0.18	3.7922	+ 195	00	31 22 42.9	+ 9.415	—492	0.0	80.8	7, 8	737
2093	C	(8.0)	3.10	3.7926	+ 195		23 25.9	+ 9.411	—493	— 7.3	83.8, 90.9	8, 7	737
2095		7.7	8 3.22	3.8853	+ 217		34 33 12.6	+ 9.411	—504		75.6, 75.4	4	848
2097		7.5	8 12.50	3.7485	+ 185		29 43 18.7	+ 9.399	—487	— 4.1	85.7, 83.8	4	682
2100		9.1	8 21.50	3.5785	+ 150	00	23 11 51.5	+ 9.387	—465	— 3.1	84.1	4	658
2101		7.8	8 15.27	5.2273	+ 677	00	61 16 23.2	+ 9.395	—678	0.0	75.6	3	694
2103		(7.0)	8 20.91	4.2915	+ 326		45 54 14.3	+ 9.388	—557	0.0	75.0, 74.7	5	905
2106	p	7.2	8			— 79	5			—12.0	C 808—09		613
2106	ma	6.5				— 65				—12.9			614
12981		8.6	9 5.39	4.2679	+ 317	+ 83	45 17 39.6	+ 9.331	—555	+16.6	08.9	3	906
2108		7.2	9 36.35	3.0752	+ 73	+ 22	0 8 26.9	+ 9.291	—401	— 3.1	71.1, 73.8, (S 1321/2)	9, 8	721
2110		7.6	9 44.14	3.4889	+ 132	00	19 22 0.5	+ 9.281	—455	— 6.5	82.6, 85.5	7, 6	689
2112		8.4	10 3.10	3.9747	+ 235	+ 17	37 16 2.2	+ 9.256	—518	— 0.1	00.1, 00.6	3	906
2113		9.0	10 9.30	3.8226	+ 199		32 18 51.1	+ 9.248	—499		97.0, 04.7	2	764
2115		7.5	10 48.00	3.5643	+ 145	00	22 29 54.0	+ 9.198	—466	— 5.2	78.3, 76.7	12, 9	670
2116		(7.0)	11 1.75:	4.7841	+ 481	+ 17:	55 13 34.5	+ 9.180	—624	— 3.4	80.7, 76.9	5	868
2116		(7.3)	5.80				12 1.0					4	869
12982		9.0	11 28.29:	4.2909	+ 317	— 23:	45 41 8.5	+ 9.146	—561		73.7	3	918
12983		9.4	11 29.42	4.2679	+ 310	86	45 8 17.4	+ 9.144	—558		80.4, 74.0	3, 4	917
2119		(8.8)	11 32.24	4.0777	+ 258		40 11 36.7	+9.141	—533	0.0	88.9	3	934
2120		9.0	11 38.74	3.5290	+ 138	+ 36	20 59 36.8	+9.132	—462	0.0	89.9, 96.1	5, 4	731
2121		(7.8)	11 33.74	4.4880	+ 377	00	49 57 1.5	+9.138	—587	0.0	82.5	9, 10	1162
2126		7.5	12 16.05	3.5889	+ 148	00	23 25 59.6	+9.084	—471	0.0	83.3, 81.0	5, 6	672
2128		(8.3)	12 26.59	3.1028	+ 75		1 28 4.7	+9.070	—407		85.8, 87.5	5, 4	733

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
2129		7.4	12 22.72	+4.4797	+ 371	s	49 43 59.4	+9.075	—586	″	78.2	3	1165
2130		5.1	12			—0.14	27			— 8.4	B 1002		655
2131		8.9	12 36.65	4.5305	+ 386		50 43 0.0	+9.057	—593	— 5.7	79.5, 79.2	4	980
2134		6.9	12 45.57	3.4194	+ 118	+67	16 13 9.4	+9.045	—449	— 2.9	58.9, 70.7	16, 15	579
2136		8.0	12 56.52	4.5625	+ 396		51 18 20.6	+9.031	—598	0.0	89.6	4	912
2139		8.5	13 44.59	4.4611	+ 360		49 16 19.8	+8.968	—586		46.6	3	1172
2143		9.4	14 33.00	3.4968	+ 129		19 30 57.7	+8.906	—460		68.1	3	705
2145		8.5	14 53.76	3.9177	+ 212	+37	35 11 32.3	+8.878	—516	— 1.9	94.0, 94.4	3	857
2146		6.0	14 53.97	4.1567	+ 270	+23	42 7 58.3	+8.878	—547	— 2.8	81.5, 80.3	12, 13	946
12987		8.0	15 2.23	6.6306	+1355	00	71 22 32.6	+8.867	—871	0.0	89.1	5	254
2147		5.4	15			+19	25			— 3.2	B 1015		707
2149		6.1	15			+07	20			— 0.5	B 1014		744
2151		8.4	15 9.43	3.7127	+ 168	00	28 6 7.8	+8.857	—489	— 4.8	85.3	4	648
2152		8.3	15 4.55	5.1464	+ 598		59 57 46.8	+8.864	—677		95.8	4	799
2154		7.1	15 38.87	3.3886	+ 111	+79	14 45 37.1	+8.819	—448	0.0	79.9, 78.4	5, 4	690
2160		7.0	16 17.71	3.8840	+ 201		34 1 20.59	+8.768	—513	— 5.0	82.3, 71.5	3, 4	—851
2161		6.9	16 22.47	3.3078	+ 99	00	11 5 4.0	+8.762	—438	— 8.1	68.7, 66.7	5, 6	601
2162		6.2	16			+13	24			— 2.4	B 1019		—684
2163		5.8	16 31.34	3.8736	+ 199	+22	33 40 10.7	+8.750	—512	— 5.1	66.7, 73.7	16	854
2164		9.0	16 35.55	3.7622	+ 175		29 49 55.8	+8.744	—497		95.1	3	706
2165		8.7	16 37.42	3.5401	+ 134	+23	21 14 51.9	+8.742	—468	— 3.8	79.5, 85.3	5, 4	639
2168		8.5	16 41.08	4.6809	+ 419		53 12 4.5	+8.737	—618		79.9	4	769
2169		7.3	16 41.23	4.8137	+ 464	00	55 21 15.6	+8.737	—636	0.0	81.3	7, 8	881
2171		8.8	16 19.06	4.5596	+ 381		51 2 43.7	+8.766	—602		17.0	2	989
2172		5.1	17			—17	9			— 0.8	B 1023		570
2177		5.4	17			+74	21			— 4.5	B 1027		643
2179		8.4	17 59.28	3.9315	+ 209	00	35 27 6.8	+8.635	—521	0.0	13.0, 13.6	4	867
2183		4.2	17			+74	17			— 4.5	B 1029		719
12989		8.7	18 13.20	6.8714	+1455		72 22 15.9	+8.616	—909		97.1	3	226
2187		7.7	18 35.07	3.4783	+ 122	+84	18 34 38.2	+8.587	—462	— 3.5	81.7, 81.9	5	636
2189		8.4	18 38.55	4.3223	+ 304		45 58 21.1	+8.583	—573		82.2	3	936
2190		9.0	18 54.03	3.1159	+ 74		2 4 0.8	+8.562	—415		95.4	2	705
2192		8.5	18 47.64	4.7134	+ 421		53 37 41.3	+8.571	—625	— 4.3	78.1, 80.9	4	772
2193		9.0	18 58.61	5.5454	+ 739		63 56 42.2	+8.556	—735		79.5	2	505
2196		4.6	19			+78	15			— 2.8	B 1034		625
2197		6.0	19 2.27	6.8512	+1430	+87	72 15 18.2	+8.551	—908	— 4.8	72.0, 75.6	9, 13	227
2199		8.4	19 26.36	5.4615	+ 699		63 8 6.7	+8.520	—725		90.9	3	506
2200		7.7	19			+62	18			—13.7	B 1037		637
2201		6.7	19 51.02	3.4640	+ 118	00	17 55 24.3	+8.487	—461	0.0	68.0, 74.5	10, 9	724
12991		8.7	19 51.65	6.4358	+1174	—29	70 11 40.6	+8.486	—854	0.0	84.0, 85.5	5	303
2204		(9.0)	20 10.05	4.0598	+ 233		39 10 13.1	+8.462	—541	— 4.5	06.1, 06.4	3	999
2207		5.8	20			00	10			— 2.0	S 1402		577
2208		8.8	20 45.78	3.5638	+ 133		22 3 4.5	+8.415	—476		98.9	3	—648
2209		8.1	21 0.14	3.2806	+ 92	00	9 44 21.1	+8.396	—438	— 3.3	65.8, 68.5	4, 5	583
2210	ma	6.3	20 58.58	3.7755	+ 170	00	30 4 54.1	+8.398	—503	— 2.1	84.0, 87.9	9, 12	665
2210	s	(8.0)	21 59.25			+72	5.7	+8.397			91.5	5	
2212		4.0	21			+72	15			— 2.6	B 1045		631
2212		3.6				+72				— 2.6	B 1046		632
12992		6.6	21			+83	15			— 4.6	C 840		633
12993		9.3	21 48.53:	4.3124	+ 291	— 52:	45 33 39.2:	+8.332	—576	— 4.9:	72.7	2	944

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
12995		8.6	22 2.25	+6.5017	+1181		70 28 1.5	+8.314	—866		98.0	3	306
2220		5.4	22			+0.07	53			— 0.5	B 1050		
2220		6.2	22 7.23	4.7251	+ 410	00	53 38 17.4	+8.307	—631	0.0	81.6, 79.8	8, 7	779
2224	ma	8.6	22 31.78	4.6270	+ 378	00	51 55 39.3	+8.274	—618	— 2.8	79.5, 80.8	6, 5	944
2224	s	(9.0)	22 32.96	4.6269	+ 378		30.0	+8.272			89.3	2, 2	
2225		(6.5)	22 37.21	3.8388	+ 181		32 10 57.5	+8.267	—513		72.8, 71.2	4	806
2228		9.1	22 48.34	3.7873	+ 170		30 24 25.3	+8.252	—507		97.9	3	671
2229		6.3	22 52.38	4.0853	+ 233	+ 14	39 44 10.6	+8.248	—548	— 0.3	82.0, 82.3	4	1013
2230		5.7	23			+ 73	15			— 1.2	B 1051		636
2231		8.0	23 11.27	4.0039	+ 214		37 22 47.6	+8.222	—536	— 1.8	07.4, 00.0	2, 3	930
2234		8.3	23 42.08	4.5678	+ 356		50 46 44.1	+8.181	—612	— 6.4	80.2, 84.3	8, 10	1013
2235		8.7	23 52.47	3.9667	+ 205		36 13 24.3	+8.167	—532	— 8.0	03.9, 87.7	3	906
2236		(7.7)	24 21.96	3.2120	+ 82	— 43	6 31 15.4	+8.128	—432	— 8.2	89.4	3	696
2236	ma	6.9	22.64	3.2119		— 57	17.9	+8.127		— 8.1	81.4, 84.9	7, 6	
2237		(8.0)	24 6.77	6.6623	+1242		71 12 26.1	+8.148	—891		81.0	3	265
12996		8.2	24 31.20	3.3562	+ 99		13 4 40.5	+8.115	—451		89.4	3	692
2242		7.8	25 5.28	4.5696	+ 351		50 44 16.7	+8.070	—614	— 6.2	82.5, 74.1	5, 6	1016
2249		8.6	26 7.56	5.4502	+ 644		62 43 6.4	+7.986	—732		92.8	4	692
12997		8.7	26 24.74	4.0616	+ 219	— 86	38 52 51.1	+7.964	—547	—11.6	99.3, 13.9	4	912
2251		5.7	26			+ 05	28			— 2.3	B 1068		666
2253	p	(7.4)	27 1.63	4.3940	+ 296		47 5 41.9	+7.914	—592		77.6, 67.4	5, 4	1012
2253	ma	(7.3)	27 3.41	4.3948		00	6 38.4	+7.912		0.0	67.2, 69.5	4	1013
12999		8.0	27 8.69	4.0841	+ 223	+ 19	39 31 21.0	+7.905	—551	0.0	93.8, 98.0	4	1030
2255		6.8	27 16.63	3.5796	+ 128	+ 54	22 25 47.1	+7.894	—483	— 2.8	94.9, 94.6	10	712
2256		6.6	28 20.10	3.5134	+ 117		19 42 35.7	+7.809	—475	— 6.5	97.6, 70.6	5	740
2257		7.8	27 50.15	4.4454	+ 307	00	48 8 24.8	+7.849	—600	0.0	85.8, 91.6	6	1119
2260		7.8	28 0.45	4.1352	+ 232	+ 19	40 49 2.2	+7.835	—558	— 0.8	05.5, 05.7	6	999
2261		8.4	28 7.90	3.8923	+ 181		33 40 13.0	+7.825	—526		96.9	2	883
2262		8.4	28 14.90	3.9012	+ 183	+1.00	33 56 52.9	+7.816	—527	+ 2.4	00.0, 05.3	3	884
2264		8.5	28 23.84	4.7382	+ 386		53 31 37.0	+7.804	—640		91.4	2	793
2266		1.1	29			+ 48	16			—19.1	B 1077		629
2267		4.4	28			+ 31	9			— 5.0	B 1076		607
13002		8.0	28 51.19	4.2810	+ 263		44 26 22.6	+7.767	—579		72.7	2	997
2270		7.4	29 15.34	3.5091	+ 116		19 30 15.3	+7.735	—475		92.9	6	744
2271		8.0	29 23.16	3.2449	+ 82	+ 24	7 58 2.7	+7.724	—440		82.8, 81.8	5	671
2272		8.4	29 23.70	3.5028	+ 115		19 14 10.8	+7.723	—475		92.0, 86.3	6, 4	745
2273		8.8	29 24.70	3.2666	+ 85		8 57 3.8	+7.722	—443		81.2	2	721
2274		7.2	29 2.61	4.1778	+ 238	+ 31	41 51 48.5	+7.725	—566	— 5.2	78.7, 81.4	8, 9	920
13003		8.9	29 4.93:	4.2714	+ 260	+1.09:	44 12 9.1	+7.748	—578		65.1	2	998
13005		8.6	29 28.99	7.0024	+1351		72 34 7.9	+7.716	—946		94.2, 97.4	3	235
2275		9.4	29 32.58	3.5408	+ 120		20 47 21.0	+7.711	—480		99.2	2	783
2279		5.4	30 4.13	4.7250	+ 375	+ 48	53 13 26.6	+7.669	—640	— 9.7	60.8,72.4 (B1083)	19	794
2280		5.3	30 4.34	4.7014	+ 368	00	52 49 39.9	+7.668	—637	— 0.9	69.2, 77.3	15	865
2282		(8.5)	30 11.21	7.3829	+1560		74 0 21.9	+7.659	—998		98.5	3	—244
2283		8.9	30 30.68	4.7260	+ 373		53 13 6.9	+7.633	—640		75.4, 65.9	3	796
2284		6.5	30			+ 20	26			— 6.0	S 1470		731
13007		8.5	30 42.58	6.2683	+ 954		68 50 44.7	+7.617	—849		93.2	2	343
2288		8.5	31 21.04	4.1903	+ 235		42 4 59.5	+7.565	—569		53.2	2	1023
2299		8.8	32 29.09	3.5929	+ 124		22 45 57.5	+7.473	—489		92.2	4	728
2302		8.8	32 43.77	3.4346	+ 102		16 16 26.0	+7.453	—468		80.4, 65.2	2, 3	637

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D.-Nr.
			m s	s		s	° ′ ″	″		″			
2303		8.0	33 5.33	+4.7142	+359	+0.39	52 53 49.4	+7.424	—642	— 8.8	75.4	3	872
2304		5.7	33			+ 31	28			—4.3	B 1099		680
2305		8.8	33 34.55	3.1390	+ 69	00	3 4 22.2	+7.384	—429	+2.0	96.5	7	638
2307		7.8	33 49.35	4.0186	+194	+ 15	37 16 16.4	+7.364	—548	0.0	85.9	5	957
2308		(8.7)	33 58.00	3.7453	+146		28 24 58.4	+7.353	—512		93.2	3	682
2310		8.7	34 14.08	3.5874	+121	00	22 29 16.4	+7.331	—490	0.0	89.1, 91.4	8	735
2312		7.8	34 29.79	3.0878	+ 64		0 43 5.7	+7.309	—422	—2.5	85.8	8, 9	817
2313		4.3	34			+ 05	22			—2.3	B 1107		739
2315		7.5	34 55.84	3.9028	+171		33 41 20.8	+7.274	—534		16.5	3	892
2316		7.4	35 16.11	4.2018	+228	00	42 10 48.1	+7.246	—575	0.0	84.2, 85.0	8	1033
2319		9.0	35 30.27	3.5357	+113	00	20 23 13.8	+7.227	—484	0.0	94.5	4	807
2320		9.0	35 44.62	3.5265	+111		20 0 16.2	+7.208	—483		71.6	1	—764
2324		8.7	36 21.00	4.8478	+382		54 52 43.7	+7.158	—663		90.6	2	810
2325		7.9	36 26.91	4.2597	+237		43 33 2.0	+7.150	—583		74.1	2	1047
2333		7.7	37 39.33	5.9246	+733		66 18 34.0	+7.051	—812		76.1	4	353
2335		6.8	37 54.41	4.7383	+345	00	53 4 26.3	+7.031	—650	—7.7	80.8, 81.2	7	813
2336	p	(8.0)	38 10.48	3.1831	+ 71		5 3 28.1	+7.008	—438		83.2	2	718
2336	ma	8.2	10.82			— 63	26.1			—7.1	68.1	3	
2337		9.0	38 14.63	3.7133	+134		27 5 51.8	+7.003	—512		95.1	2	691
2338		7.2	38 8.34	4.7280	+341	00	52 53 34.0	+7.012	—649	0.0	77.6, 73.4	9	880
2339		(9.0)	38 18.29	5.9377	+732		66 23 0.5	+6.998	—815		88.4	2	+354
2340		9.1	38 34.24	3.5542	+112	+ 69	21 1 59.3	+6.977	—489		94.4	3	694
2343		8.5	39 6.00	4.1251	+203	00	40 0 15.6	+6.933	—568	0.0	87.8, 79.8	6, 8	—1065
2344		(9.0)	39 15.58	4.1281	+203		40 4 44.0	+6.920	—568	—3.0	91.0	3	1051
2349		9.2	39 26.44	3.9364	+168		34 32 43.4	+6.905	—542		09.3	2	908
2352		9.0	40 9.76	3.5789	+113		21 57 33.8	+6.846	—493		94.6	3	701
2355		(8.6)	40 39.20	3.3600	+ 87	+ 54	12 53 18.5	+6.805	—464		77.1	3	649
2356		8.7	41 0.00	4.0918	+192	— 31	39 0 55.6	+6.777	—565	—5.4	11.4, 12.2	3	—944
13013		7.5	41 7.92	6.0769	+759	—1.10	67 16 22.1	+6.766	—837		96.2	3	354
2357		9.7	41 20.28	3.4713	+ 99		17 35 10.7	6.749	—480	—7.2	88.0	2	789
2357		7.9	20.75	3.4712	+ 99	00	2.8	6.748		—5.6	78.5	6, 5	
2358		(8.8)	41 35.17	3.3104	+ 81		10 42 24.2	+6.728	—458		69.4, 71.6	3	639
2363		8.0	42 2.86	4.3216	+234	+ 31	44 44 59.4	+6.690	—597	—0.8	88.7, 90.3	5	1036
2368		6.3	42			+ 07	15			—1.4	B 1136		687
2373		(8.7)	43 8.70	5.2923	+472	00	60 22 29.9	+6.600	—732	0.0	05.6	5	843
2375		8.2	43 24.79	3.0936	+ 61	00	0 57 58.4	+6.578	—429	0.0	89.3, 92.3	5, 4	865
2381		7.0	44 16.98	3.3147	+ 79	+ 50	10 51 8.6	+6.506	—460	0.0	78.8, 79.4	6	654
2382		8.4	44 37.84	3.9778	+165		35 35 26.8	+6.477	—552	—4.2	06.9	3	917
2383		6.7	44 46.83	3.3747	+ 85	+ 65	13 26 28.7	+6.464	—469	0.0	85.5, 84.3	4	728
2386		5.6	44 50.34	4.8832	+351	00	55 2 59.7	+6.460	—677	0.0	81.2,79.9(B 1150)	17, 18	941
2389		(9.2)	45 29.75	3.6706	+118		25 16 49.0	+6.405	—510		79.6	2	744
2390		8.7	45 34.55	3.5849	+107	+1.04	22 1 40.8	+6.398	—498	—7.8	94.6	4	—717
2393		(8.7)	45 32.95	6.3916	+834	00	69 6 27.8	+6.401	—886	0.0	82.7	5	285
2394		6.9	45 55.32	5.4118	+490	00	61 32 54.4	+6.370	—752	0.0	83.3, 84.6	6, 5	742
2395		7.4	46 10.43	3.6196	+111		23 20 41.5	+6.349	—504		95.0	5	758
2396		8.5	46 15.02	6.5297	+881	00	69 51 18.2	+6.342	—906	—3.1	77.0	7	286
2397		8.2	46 28.10	4.6900	+298		51 53 38.6	+6.324	—652		71.2	3	999
13016		9.0	46 35.13	4.0171	+168	— 20	36 40 18.9	+6.315	—559	—4.4	02.0	2	962
2402		(9.0)	46 58.57	3.5735	+105		21 32 35.2	+6.282	—498		99.0	3	721
2405		(8.5)	46 57.70	6.4182	+827	00	69 13 16.7	+6.283	—892	0.0	74.1	6	290

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2406		4.4	47 16.27	+4.7919	+ 318	—0.57	53 32 57.0	+6.258	—667	0.0	63.4,55.3(B1161)	19, 23	829
2407		(7.9)	47 29.82	3.2321	+ 70	+1.31	7 10 7.4	+6.238	—451	—16.7	84.7, 83.3	5, 6	754
2407		7.9	29.82			+1.67	24.0			—20.6	75.8, 74.7	10, 12	
2413		9.3	47 26.23			+ 62	82 18 4.6			+ 4.7	84.8	6	136
2415		6.8	48 8.53	3.2599	+ 72		8 23 42.5	+6.185	—455		78.1, 81.9	5, 6	799
13019		8.6	48 8.42	4.1053	+ 178	00	39 5 15.8	+6.186	—572		89.2, 12.0	4, 3	1112
2421		(7.0)	48 40.36	6.3825	+ 739	00	68 58 9.7	+6.141	—889	— 3.2	81.1, 82.0	7, 6	357
2422		(8.8)	48 56.24	3.9318	+ 149		34 1 21.8	+6.119	—549		97.0	2	—929
2425		(6.3)	48 55.77	7.4770	+1257	00	73 52 40.7	+6.120	—1041	0.0	69.6, 76.4	15, 16	265
2426		4.3	49			— 56	13			— 6.1	B 1169		740
2430		8.5	49 51.17	4.3009	+ 207	+ 52	43 56 37.5	+6.043	—601	— 4.4	69.8, 60.4	7, 6	1143
13023		9.0	49 58.52	7.5907	+1292		74 14 28.8	+6.032	—1.058		98.0	3	232
2433		6.0	50			+ 04	23			— 2.5	B 1175		777
2435		5.0	50 46.41	4.0587	+ 165	+ 37	37 41 56.0	+5.966	—568	—10.1	69.0, 64.7	16	1005
2439	G. B.		51 15.27	3.3850	+ 80		13 45 37.9	+5.926	—474		49.8, 49.7	4, 3	752
2439	ma	8.2	15.37				36.8				82.8	2	
2441		8.6	51 20.18	3.8344	+ 131		30 49 16.3	+5.919	—537		94.3, 03.1	3, 2	751
2443		8.2	51 37.23	3.1053	+ 58	+ 35	1 28 47.9	+5.895	—435	— 1.0	72.6, 71.5	12	869
2444		8.0	51 33.47	3.8520	+ 133	+ 54	31 23 38.5	+5.900	—539	— 4.0	05.8	3	839
2445		6.0	51 42.92	4.1147	+ 171	— 17	39 12 10.34	+5.887	—576	0.0	66.1,66.7(B1182)	15	1133
2446	ma	8.8	51 42.97	4.5990	+ 258		50 4 4.0:	+5.887	—644	— 7.4:	79.1	3	1103
2446	s		43.52				1.8				79.1	3	
2448		6.0	51			— 07	14			— 1.0	S 1600		796
2450		(8.7)	51 44.93	6.4360	+ 777	00	69 11 41.5	+5.884	—900	0.0	79.0, 84.7	5, 4	294
2451		(8.5)	51 51.10	5.5690	+ 493	—1.34	62 53 17.3	+5.875	—779	+31.9	81.2, 85.9	11, 10	723
2452		6.6	52 6.86	3.7276	+ 116	00	27 8 5.7	+5.854	—522	— 5.3	84.6, 85.5	13, 11	716
2453		9.0	52 12.68	4.1086	+ 169	— 38	39 1 11.7	+5.846	—576	— 3.9	02.9, 09.3	2, 3	—994
2455		4.2	52			+ 03	60			— 1.3	B 1185		856
2457		8.0	52 34.53	7.3677	+1140	00	73 24 44.4	+5.815	-1.030	0.0	86.5	6	271
2458		8.5	53 0.97	4.1112	+ 167	— 29	39 3 40.6	+5.778	—577	— 2.0	09.7, 14.7	2, 3	1142
2459		var.	53			+ 05	43			— 1.3	B 1187		1166
2462		7.8	53 34.77	3.7067	+ 111	00	26 20 48.9	+5.731	—520	0.0	91.1	5	774
2463		9.0	53 31.64	4.5650	+ 244		49 21 48.6	+5.736	—640		61.1	2	1288
2464		8.0	53 51.18	3.1824	+ 62	+ 27	4 54 41.4	+5.708	—447		84.2, 85.8	5	808
2465		8.6	53 43.11	5.1781	+ 377	— 17	58 40 44.3	+5.720	—726	— 2.1	77.9, 80.3	7	801
2466		8.8	53 52.50	3.3994	+ 79	— 30	14 19 2.3	+5.706	—478	— 7.2	87.3	2	808
2467		7.0	53			00	3			0.0	S 1609		736
2467		6.6				00				0.0	S 1610		737
2468		6.9	53 59.69	3.7109	+ 111	— 15	26 29 2.1	+5.696	—521	+ 1.8	73.2, 78.8	10, 8	775
2469		(8.2)	54 6.76	3.1412	+ 59	+ 11	3 4 39.4	+5.686	—442	0.0	81.6, 75.0	5	738
2470		8.0	54 7.26	3.7569	+ 117		28 6 19.0	+5.686	—527		01.7	2	732
2472		8.0	54 19.63	3.5555	+ 94	— 35	20 38 49.9	+5.668	—500	—11.8	80.9, 78.9	5, 4	863
2474		(7.6)	54 51.46	3.3261	+ 72	— 26	11 11 26.3	+5.624	—468	— 3.7	66.8, 65.7	6, 5	702
2477		8.9	55 2.75	4.0989	+ 265	+ 52	51 43 22.9	+5.608	—660	—10.5	90.2	2	1016
2481	ma	6.2	55 31.61	3.1042	+ 56	— 20	1 25 28.7	+5.567	—437	+ 1.1	78.3, 80.2	15, 14	886
2481	s	(8.0)	55 32.44			— 21	38.7	+5.566			83.4, 03.2	8	886
13033		8.8	55 56.82	6.1957	+ 647		67 38 10.5	+5.532	—871		88.4	2	364
2482		(9.0)	55 48.58	3.1653	+ 59		4 8 25.9	+5.544	—446		99.7	2	817
2484		8.7	55 45.71	3.9918	+ 144	— 35	35 35 34.4	+5.548	—562	— 6.2	83.7, 03.6	3, 2	961
2486		(9.0)	56 4.80	3.1716	+ 60	+ 44	4 25 7.1	+5.521	—447	— 6.5	00.0	2	818

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
13029		6.6	56 11.08	+4.4382	+ 212	0.00	46 44 19.6	+5.512	—625	0.0	92.4, 88.2	6	959
13030		(8.0)	56 31.00	3.7984	+ 118	00	29 27 4.8	+5.484	—535	0.0	86.8	4	800
2490		6.5	56			+ 07	27			— 1.0	S 1632		723
2492		(9.0)	56 53.73	3.8368	+ 122		30 43 17.1	+5.452	—541		97.4	2	778
2495		5.0	56			— 16	51			—17.7	B 1202		1024
13034		7.9	57 1.33	3.8091	+ 118		29 47 54.4	+5.442	—537		05.3	2	802
2500		7.8	57 28.53	3.9964	+ 142		35 40 15.2	+5.404	—564		11.5, 12.3	3	972
2503		7.9	57 37.97	4.8988	+ 294		54 48 54.1	+5.390	—690		86.6, 87.0	3, 5	862
2504		7.4	57 43.79	4.6144	+ 238	00	50 7 58.7	+5.382	—650	0.0	71.9, 78.5	6, 8	1122
2506		(6.1)	58 5.04			00	22 53 11.4			0.0	92.6, 91.4	11, 10	818
2509		6.5	58			— 07	19			— 1.0	S 1642		847
2511		8.4	58 51.40	3.9175	+ 128		33 14 32.8	+5.287	—553		80.8	3	956
2513		6.7	58 52.34	5.6515	+ 463	+ 48	63 26 2.7	+5.286	—798	— 9.8	73.9	6	566
13038		8.7	59 2.79	3.8140	+ 116	— 33	29 53 50.9	+5.271	—539	— 2.7	93.0	3	809
2515		(9.0)	59 36.68	4.0408	+ 143	— 38	36 52 55.7	+5.223	—571		08.7, 09.0	3	1009
2516		6.6	59 33.65	4.5547	+ 221		48 57 15.8	+5.228	—644	0.0	83.2, 79.6	4, 6	1226
2519		(8.8)	59 43.70	4.0094	+ 138		35 58 34.8	+5.213	—567		07.9, 12.0	3	987
2520		(8.3)	59 48.14	3.4386	+ 79	+ 29	16 39 33.8	+5.207	—489	— 7.1	00.9, 01.0	6	697
2524		(8.5)	59 41.38	6.2158	+ 615		67 40 26.5	+5.217	—878		89.8	2	368
2525		9.3	0 0.14	3.3193	+ 68		10 49 47.0	+5.190	—470		00.9	2	714
2528		6.0	0			+ 04	21			— 1.6	B 1215		766
2531		5.5	0			+ 02	24			— 1.1	B 1216		755
2532		7.2	0 34.15	6.5598	+ 712	00	69 40 8.6	+5.142	—927	—10.0	76.3	4	307
2534		8.0	0 54.90	4.2574	+ 170		42 30 49.6	+5.114	—603		54.1	2	1184
2535		5.5	1			+ 17	8			— 6.1	B 1219		866
2536	med.	9.0	1 7.05	3.2594	62	+ 25	8 14 15.3	+5.096	—462	— 8.7	71.0, 66.2	2	867
2541		8.0	1 19.78	9.2790	1854	00	78 13 44.1	+5.078	-1.311	— 3.6	88.0	6	180
2542	p	(8.5)	1 41.37	3.8080	110	+ 64	29 38 36.0	+5.048	—539		85.6, 83.7	4	822
2542	s	(6.5)	46.18	3.8083	110	+ 81	6.6	+5.041	—539	+ 3.6	95.9, 97.5	10	
2543		6.2	1 51.32	4.0524	139	— 10	37 8 23.9	+5.034	—574	— 0.6	82.9, 83.3	5	1067
2544		6.0	1			+ 47	27			— 6.0	S 1670		732
2547		(8.2)	2 25.35	+4.1254	148	+ 22	39 7 15.5	+4.985	—585	+ 1.9	81.5, 80.9	6	1198
2549		4.9	2			+ 03	15			— 1.0	B 1227		752
2551		7.9	2 54.68	+3.8781	116	— 78	31 52 43.1	+4.944	—550		07.4, 03.0	6, 7	871
2552		(8.3)	3 4.70	+3.6762	95	— 44	24 59 18.4	+4.930	—522	—21.9	77.4	10, 9	772
2553	ma	(8.7)	3 10.12	+3.3913	70	00	13 50 5.5	+4.922	—481	— 4.3	51.5, 51.8	5	822
2553	s	(8.9)	10.55				49 41.6				58.1, 58.7	2	
2554		7.1	3 11.36	+3.2548	61	— 41	7 0 57.7	+4.920	—462	—11.6	86.6	6	819
2555	min	(9.0)	3 15.40	+3.2068	58		5 55 40.3	+4.915	—455		93.9	2	823
2558		9.2	2 59.42		00	—3.40	83 16 42.5			— 5.2	87.6	7	139
2562		8.0	4 13.02	+4.6908	227	+ 77	51 16 57.5	+4.833	—666	—14.6	80.2	3	1043
2566		7.6	4 31.35	+4.4556	188	— 05	46 49 24.6	+4.807	—633	0.0	80.7, 84.8	9	979
2569		8.4	4 53.52	+3.7085	95		26 6 18.0	+4.776	—527		95.6	3	797
2572		8.5	5 9.11	+4.6865	222		51 10 46.4	+4.754	—666		79.6, 86.9	3, 2	1044
2573		6.1	5 18.52	+3.0923	50	— 18	0 52 56.4	+4.740	—440	— 1.4	77.6, 76.9	14	975
2574		(7.5)	5 17.97	+3.2245	57		6 40 58.4	+4.741	—459		80.8, 79.7	4	864
13044		7.0	5 54.65	+4.4674	186	+ 92	47 1 31.5	+4.689	—636	—10.7	91.3, 86.6	3, 4	1117
2579		(8.0)	6 12.40	+4.7252	225		51 48 35.8	+4.664	—672		93.4	2	1047
2580		8.6	6 27.37	+3.8709	109		31 33 10.6	+4.643	—551		00.0	2	894
2583		8.2	6 39.33	+3.9903	122		35 12 34.0	+4.626	—568		10.6, 95.3	3, 4	1022

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2584		4.6	6 45.40	+3.1338	+ 51	—0.01	2 42 37.0	+4.617	—447	— 0.8	73.0,72.1 (B1240)	23, 24	888
2588		6.2	7 2.00	+3.1135	+ 50	00	1 49 4.0	+4.594	—444	0.0	85.2, 84.0	10, 11	938
2589		(9.2)	7 22.48	+3.8298	+104		30 11 40.5	+4.565	—546		94.7	3	836
2591	C	(7.2)	7 15.20	+3.9027	+111		32 22 15.1	+4.575	—556		86.0, 61.2	2, 3	922
2591	A	5.1	16.05	+3.9028	+111	— 16	25.4	74	—556	0.0	50.0, 56.9	19, 26	921
2592		7.0	7 21.71	+3.0816	+ 48	00	0 24 43.5	+4.566	—440	— 1.7	81.3, 80.9	12, 14	988
2597		0.2	7			+ 83	45			—42.9	B 1246		1077
2601		9.0	7 50.64	+3.8039	+100		29 19 23.2	+4.524	—542		97.2	2	847
13047		8.6	7 54.06	+7.5151	+923	+3.00	73 39 34.3	+4.520	—1.070		98.8, 04.4	3, 2	283
2602		8.6	8 3.33	+4.1235	+134	— 09	38 54 9.1	+4.506	—588	— 1.1	93.8, 94.4	4	1087
2603		7.9	8 17.00	+3.7026	+ 90		25 48 48.6	+4.487	—528		86.5, 81.4	5, 6	807
2604		8.1	8 21.33	+3.5359	+ 76		19 35 7.5	+4.481	—505		86.6	3	879
13045		7.0	8 33.94	+4.1399	+135		39 19 16.9	+4.463	—591	+ 2.0	78.6, 89.4	3, 4	1236
2608		9.0	8 40.19	+4.0777	+128	— 49	37 38 29.6	+4.454	—582		02.5	2	1117
2609		8.2	8 47.33	+4.7830	+223		52 41 28.1	+4.444	—682		84.8	4	942
2610	ma	7.6	8 54.53	+3.9251	+111		33 11 15.9	+4.434	—560		40.0, 77.0	2, 1	991
2610	med.		54.59			00	16.5			0.0	71.9, 64.0	6, 5	
2611		8.0	8 54.31	+5.6344	+382	00	63 1 43.6	+4.434	—803	0.0	77.1, 80.5	4	—743
2612		9.1	9 12.10	+3.8599	+103		31 7 48.6	+4.409	—551		01.1, 04.9	3	913
2613	ma	7.5	9 25.47	+3.5036	+ 73		18 17 54.0	+4.390	—500		00.8, 76.4	4, 3	812
2613	s	(8.2)	9 25.46	+3.5036	+ 73	00	18 17 51.4	+4.390	—500	0.0	90.0	3	812
2615		8.7	9 40.75	+3.7071	+ 89		25 56 34.8	+4.368	—530		95.7	2	812
2616		8.0	9 40.14	+4.0739	+125		37 30 40.6	+4.369	—582		02.2, 02.8	2	1127
2617		9.3	9 34.36	+5.8412	+423	00	64 46 14.1	+4.377	—834	0.0	90.5	4	520
2618	p	(8.3)	9 47.11	+4.3823	+162		45 6 35.2:	+4.359	—626	+ 3.3:	80.0, 04.0	1, 2	1090
2618	ma	7.9	9 47.85	+4.3823	+162	— 77	45 6 36.5:	+4.358	—626	— 1.3:	96.4	4	1090
2621		9.2	9 53.80	+4.1457	+132	— 28	39 26 12.8	+4.350	—592		09.5	2	1244
2623		4.8	9 58.55	+3.9276	+109	+ 26	33 14 19.0	+4.343	—561	—16.2	72.2,70.7 (B1258)	19, 20	1000
2624		9.4	9 59.69	+3.6180	+ 81		22 41 22.7	+4.341	—517		95.1, 83.4	4, 5	874
2625		6.8	10 7.34	+3.5473	+ 75	00	19 59 45.2	+4.330	—507	—11.3	78.4, 76.6	9, 7	886
13049		9.0	10 8.66	+7.6137	+915		73 57 46.5	+4.328	—1.086		97.7	3	286
2627		4.8	10 20.98	+4.1673	+134	+4.59	39 59 7.5	+4.311	—595	—65.4	72.9, 67.3	26, 28	1248
2628		8.0	10 12.02	+6.0152	+457		66 4 40.4	+4.323	—858		88.0	4	+391
2631	p	8.0	10 29.50	+3.9329	+108		33 23 15.5	+4.299	—562		77.9, 77.3	2	1005
2634	p	8.1	11 1.50	+3.1762	+ 51		4 32 49.1	+4.253	—454		75.7, 82.7	2	891
2635		6.5	11 9.17	+3.9487	+109	+ 69	33 51 3.4	+4.242	—565	0.0	56.3, 54.1	13	1010
2636		8.6	11 7.08	+4.6564	+195	00	50 28 58.6	+4.245	—666	0.0	93.7	5	1151
2637	ma	6.5	11 19.89	+4.4655	+168	00	46 49 52.3	+4.227	—638	0.0	73.5, 86.8	10, 8	998
2637	mi	(8.3)	19.86	+4.4652	+168		49 29.1	+4.227	—638		88.3	2	
13050		7.2	11 22.57	+7.7637	+940	00	74 26 1.2	+4.223	—1.109	+ 3.8	83.6, 86.7	6	241
2638		8.8	11 22.72	+4.0246	+116		36 4 46.7	+4.223	—576	— 2.9	08.7, 12.2	3	1083
2640		7.8	11 28.14	+4.1386	+128	— 14	39 12 34.1	+4.215	—592	+ 2.3	00.0, 00.4	4	1257
2644		6.2	11			— 27	20			— 2.9	B 1267		893
2647	p	9.4	12 1.66	+3.6836	+ 83		25 3 19.9	+4.167	—527		92.9	2	816
2647	ma	9.0	2.67	+3.6835	+ 83		5.4	+4.166	—527		96.3	3	
2648		9.0	12 5.70	+3.1602	+ 49	+ 24	3 50 44.6	+4.161	—453	+ 3.6	80.4, 78.6	6	845
2650		8.4	12 37.05	+3.6835	+ 82	00	25 2 25.2	+4.117	—527	0.0	89.2, 90.8	13, 11	818
2652		7.6	12 35.86	+5.8286	+394	00	64 36 21.8	+4.118	—834	0.0	87.1	5	523
2657	G. B.		12 55.16	+5.6705	+359		63 15 49.4	+4.090	—811		85.2	2	579
2657	ma	7.3	55.52				50.5				69.2	2	

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2658		7.5	13 2.59	+4.3791	+152	0.00	44 57 13.4	+4.080	—627	— 1.5	77.2, 85.3	6,5	1182
2659		8.5	13 9.89	+3.6996	+ 83		25 36 16.7	+4.070	—530		94.8	2	820
2661	p	(8.1)	13 18.32:	+3.6526	+ 79	+ 46:	23 54 26.4	+4.058	—523	— 6.6	90.0	3	902
2661	(ma)	8.2	18.86				33.6	+4.057		— 5.6	87.7	4	
2668		7.1	13 52.38	+4.4719	+160	00	46 53 48.6	+4.009	—641		75.9, 81.0	8, 6	1007
2669		9.0	14 4.31	+3.9451	+103		33 40 19.7	+3.992	—566		78.4	3	1020
2671		8.7	14 10.56	+4.6531	+183	00	50 20 45.1	+3.983	—667		74.2	4	1161
2674		8.7	14 34.29	+3.8030	+ 89		29 8 19.6	+3.949	—545		94.7	2	874
2676		7.8	14 39.62	+3.3639	+ 58	+ 72	12 32 34.3	+3.941	—483	— 3.9	68.1, 68.9	5	780
2679		8.7	14 59.58	+3.9574	+102		34 1 14.6	+3.913	—568		96.7	2	1023
2680		8.5	15 2.38	+3.8612	+ 93	00	31 2 5.8	+3.909	—554	0.0	88.0	4	948
13053		9.4	15 3.16	+6.0990	+430		66 34 33.8	+3.908	—874		87.4	2	394
2684		7.2	15 31.38	+3.1933	+ 49	+ 39	5 16 21.9	+3.867	—459	— 5.8	68.7, 69.0	9, 8	899
2686		8.7	15 38.98	+4.1547	+120		39 31 24.6	+3.857	—596		11.4, 12.0	3	1290
2687		8.0	15 44.60	+6.2878	+464		67 48 6.4	+3.849	—902		85.1	3	385
2689		8.8	16 3.22	+4.1590	+119		39 37 36.2	+3.822	—597		02.9, 02.5	2, 3	1294
2690		5.2	16 9.53	+4.0709	+110	+ 11	37 15 58.0	+3.813	—585	— 1.5	78.3, 76.6	16, 15	1175
2692		5.0	16 15.85	+3.1507	+ 46	— 01	3 25 19.8	+3.804	—453	— 0.4	73.9, 73.7	28	871
2693		6.9	16 20.54	+3.4467	+ 62	00	15 55 10.7	+3.797	—495	0.0	87.1, 90.3	12, 9	805
2694		8.2	16 20.62	+3.6799	+ 78	00	24 50 27.1	+3.797	—528	— 4.0	76.3, 76.5	10, 9	826
13054		8.5	16 28.64	+4.0666	+109	— 39	37 8 17.2	+3.786	—584		02.5, 09.0	2, 3	1178
2696		7.0	16 38.57	+3.0937	+ 44	00	0 56 8.6	+3.771	—445	0.0	94.4	6	1035
2696		(8.2)	38.60				13.6				01.5	4	
2698		8.4	16 51.26	+3.5508	+ 68		20 1 19.9	+3.753	—510	— 2.1	92.0, 86.2	4, 5	945
2699		6.5	16 54.46	+3.9830	+101	— 17	34 44 20.1	+3.749	—572	— 2.7	55.2, 61.8	5, 4	1031
2703		5.1	17			+1.71	17			— 1.0	B 1294		920
2704		7.8	17 5.83	+4.0959	+111	— 06	37 55 42.2	+3.732	—588	— 1.4	89.9, 89.0	5	1182
13060		8.0	17 57.14	+6.8281	+562		70 42 40.2	+3.659	—981		03.7	2	355
2710		(7.4)	18 5.37	+3.1236	+ 44		2 14 10.6	+3.647	—450		89.0	6	947
2711		(8.3)	18 9.49	+3.1111	+ 44	— 10	1 41 38.6	+3.641	—448		86.5, 99.3	4, 3	1004
2713		8.6	18 18.21	+3.8382	+ 86		30 13 24.7	+3.628	—552		74.7, 80.2	2	892
2714		9.0	18 17.06	+4.0026	+100	+ 34	35 16 59.9	+3.630	—576	+ 70	02.0, 08,7	2, 3	1100
2718		8.5	18 41.88	+3.1138	+ 43	00	1 48 30.1	+3.595	—448	0.0	78.4, 70.8	6, 7	1009
2721		7.8	19 10.98	+3.7572	+ 79	00	27 29 56.9	+3.553	—541	0.0	00.7, 97.0	9	771
2727		6.6	19 46.55	+3.9490	+ 92	00	33 39 42.5	+3.502	—569	—19.1	86.1, 86.8	14, 13	1053
2729		5.3	19			+ 06	17			— 1.4	B 1313		928
2730		8.7	19 53.41	+3.6757	+ 72	00	24 37 26.0	+3.492	—529	0.0	93.5	4	835
2731	med.	7.3	19 58.82	+3.1372	+ 44	00	2 49 30.0	+3.484	—452	0.0	70.4, 68.8	9, 10	961
2734		4.8	20			+ 08	21			— 1.3	B 1315		847
2735		4.7	20 17.33	+3.1409	+ 44	— 05	2 59 7.8	+3.457	—453	— 1.0	73.5, 61.8 (B 1314)	22	962
2736		8.8	20 28.91	+3.2306	+ 47		6 51 25.8	+3.441	—466		88.1	4	928
2738		7.9	20 15.42	+6.6055	+482	— 80	69 33 31.1	+3.460	—951	+10.1	89.0	4	327
2740		8.4	20 29.00	+4.0890	+102	— 11	37 40 2.3	+3.440	—589	— 0.5	00.2, 00.8	3	1202
2741		8.7	20 36.48	+4.1271	+105		38 41 14.7	+3.430	—595		99.4	2	1170
2745	p	(9.2)	21 13.48:	+4.9242	+189	—2.12:	54 33 50.7:	+3.377	—709	—38.3:	87.3 (C 999)	4	902
2745	ma	7.6	14.13	+4.9243	+188	—1.48	54 33 56.0	+3.376	—709	—39.3	71.6	10	902
2746		6.7	21 21.48	+4.0044	+ 94		35 16 15.0	+3.365	—577		90.7, 85.3	6	1137
2747		8.4	21 21.58	+4.5261	+142		47 48 24.6	+3.365	—652		81.8	2	1164
2748		7.6	21 24.29	+4.2253	+112	— 11	41 10 44.4	3.361	—609	0.0	66.6	5, 7	1205
2751		5.4	21			+ 15	25			— 3.4	B 1320		839

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
2752		9.0	21 34.48	+3.7971	+ 78	s	28 48 43.7	+3.347	—547	″	95.6	2	808
2755	A	8.8	21 21.77	+10.0132	+1468	0.00	79 14 53.9	+3.365	-1.441	— 6.1	92.3	6, 5	182
2755	BC	(9.7)	23.33	+10.0110	+1465		14 41.6	+3.363	-1.441		09.9	2	
2756		6.6	22 0.53	+3.5074	+ 59	— 19	18 15 43.0	+3.309	—506	0.0	84.8, 82.2	8	862
2757		(6.5)	22 3.12	+4.1680	+106	+ 14	39 43 31.3	+3.305	—601	— 3.2	81.8, 82.4	6	1322
2758	AB	7.2	22 8.44	+3.8167	+ 78	00	29 26 49.5	+3.298	—550	0.0	82.1, 81.2	8	911
2763		7.6	22 30.77	+3.5089	+ 59		18 18 54.8	+3.266	—506	— 4.3	88.5, 88.2	5	863
2764		(7.1)	22 30.61	+3.8777	+ 82		31 24 36.5	+3.266	—559		07.3	3	992
13063		9.0	22 31.26	+4.1199	+100		38 27 28.4	+3.265	—594		11.4, 12.0	3	1190
2770	p	6.7	22 43.72	+4.6059	+145		49 17 45.4	+3.246	—664		79.7	5	1364
2770	s	(7.2)	22 44.57				17 47.5				95.6	4	
2771		7.5	23 0.47	+3.1425	+ 42	— 07	3 2 45.5	+3.223	—454	— 1.3	77.4, 73.9	12	928
2772		(8.2)	22 58.37	+4.7631	+162		52 1 55.2	+3.226	—687	— 3.8	01.1	3	967
2776		8.6	23 21.46	+3.3269	+ 48		10 55 16.3	+3.193	—480		85.4	3	796
2777		(8.3)	23 28.27	+3.8784	+ 80		31 24 43.0	+3.183	—560		04.3	3	998
2779		7.3	23 57.85	+3.3088	+ 48	— 16	10 9 20.9	+3.140	—478	0.0	68.8	4, 5	800
2780		4.3	24			+ 08	5			— 3.6	B 1331		939
2781		9.0	24 13.99	+7.6558	+661		73 55 35.5	+3.117	-1.104	— 4.2	90.0	5	294
2783	med.		24 41.03	+3.1458	+ 41	00	3 11 42.9	+3.078	—455	0.0	49.9, 54.1	7	948
2783	ma	5.5	41.00			00	42.3			0.0	75.4 (B 1332)	4	
2786		8.0	24 39.23	+4.7528	+154		51 49 43.9	+3.081	—686	— 2.3	80.1	4	1087
2787		7.8	24 42.72	+4.3793	+117	00	44 41 33.9	+3.076	—632	0.0	75.6	8	1232
2789		5.5	24			— 02	16			— 0.9	B 1336		794
2792		8.6	24 53.03	+5.7132	+275	00	63 25 14.9	+3.060	—825	— 3.2	82.1	4	593
2793		(8.1)	25 9.05	+3.1354	+ 40		2 44 13.1	+3.038	—453	+ 3.7	00.9	2	986
2800		(8.4)	25 58.25	+4.0232	+ 86		35 43 24.2	+2.967	—582	0.0	14.1, 12.8	3	1169
13069		8.6	26 16.03:	+4.3879	+113	+ 87:	44 51 4.9	+2.941	—634		63.3	3	1239
2809		8.4	26 53.70	+4.2313	+ 99	— 41	41 13 9.5	+2.887	—612	— 0.7	90.0, 99.7	2	1227
13071		6.8	26 59.65	+7.6591	+610	00.	73 54 34.4	+2.878	-1.107	+ 2.9	81.4	6	298
2812		8.0	27 3.34	+3.8623	+ 73		30 50 31.2	+2.873	—559		99.3	2	942
2816		8.0	27 17.27	+7.0432	+477	00	71 34 7.8	+2.852	-1.018	0.0	81.1, 81.7	6	314
2820		8.8	28 6.33	+3.9670	+ 77		34 2 59.7	+2.782	—574		85.4, 67.0	2, 3	1107
2821		3.7	28			+ 01	9			— 1.1	B 1357		879
2825		5.6	28 19.22	+3.3094	+ 44		10 9 17.4	+2.763	—479		78.4, 76.7	4, 5	818
2826		7.1	28 14.86	+4.2539	+ 97	— 10	41 44 47.8	+2.769	—616	— 3.8	96.8	5	1231
2832		8.3	28 45.56	+3.2393	+ 41		7 11 20.3	+2.725	—469		78.1	2	939
2834		8.9	28 54.78	+3.5835	+ 55	00	21 6 13.5	+2.712	—519	— 2.4	80.8, 86.8	5, 4	901
2835	p	(7.8)	29 55.53			— 28	21 54 53.0			—10.4	87.4, 00.6	5, 4	902
2835	ma	6.7	55.84			— 41	54.0			— 7.6	70.3, 72.5	12, 11	
2845		5.7	29	+3.7428	+ 62	+ 10	26	+2.675	—542	— 3.0	B 1369		870
2855		9.1	30 28.92	+3.7432	+ 60		26 50 25.2	+2.576	—542		83.8	3	879
2857	C	8.0	30 35.56	+3.8506	+ 66		30 24 47.6	+2.566	—558		59.5, 87.5	4, 3	963
2857	AB	5.5	36.54	+3.8507	+ 66	— 26	47.5	+2.565		0.0	62.7, 69.4 (B 1378)	33, 36	
2858		8.8	30 48.33	+6.1185	+282		66 28 32.3	+2.548	—886		89.1	4	405
2861		9.0	31 7.80	+3.1242	+ 37		2 14 38.7	+2.519	—453		84.7, 00.1	3, 2	1020
2862	AB	(8.9)	31 10.41	+3.2391	+ 40	+ 51	7 10 19.2	+2.515	—470	0.0	61.4	6	952
13072		9.0	31 14.45	+4.3656	+ 97		44 16 36.8	+2.510	—633		66.6	2	1261
2866		7.3	31 20.82	+4.1043	+ 79		37 53 3.1	+2.501	—595	+ 1.2	92.3, 01.1	3, 4	1277
2867		(7.9)	31 26.63	+3.0929	+ 36	— 03	0 53 30.4	+2.492	—449	— 0.7	89.0, 87.6	9	1138

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2868		7.8	31 25.50	+4.0214	+ 74		35 34 56.8	+2.494	—582		11.2, 08.7	3	1196
2871		8.6	31 33.35	+3.6413	+ 54	+0.32	23 12 55.1	+2.483	—528	— 6.0	84.2, 83.3	4	981
2874		7.7	31 39.55	+4.0339	+ 74	— 11	35 56 9.7	+2.474	—585	— 0.5	99.8, 00.2	3	1197
2880		9.1	32 7.35	+3.4955	+ 48		17 41 25.1	+2.433	—507		92.0, 79.4	3, 4	972
2882	p	(8.8)	32 22.82	+3.3107	+ 41		10 11 21.0	+2.410	—480	— 5.4	01.1	2	838
2882	ma	8.4	32 23.11	+3.3107	+ 41	00	10 11 16.0	+2.410	—480	— 5.4	78.6	5	838
2884		8.8	32 29.64	+3.6210	+ 52	+ 81	22 27 47.6	+2.401	—525		96.6	4	978
2885		7.2	32 52.28	+3.3775	+ 43		12 57 4.8	+2.368	—490		74.4, 69.5	5, 4	852
2886		(8.0)	33 8.47	+3.4350	+ 44		15 16 52.3	+2.345	—499		56.7, 60.3	3	887
2886		6.7	9.21			00	51.0	2.344		— 3.4	61.6, 63.2	5, 4	887
2887		6.8	33			+ 13	29				S 1945		953
2893		8.9	33 59.68	+3.7478	+ 55		26 57 23.9	+2.271	—544	— 9.2	91.0	3	904
2896		4.9	34			+ 09	16			— 2.8	B 1396		841
13074		8.9	34 6.68:	+3.7837	+ 57	— 30:	28 10 20.2:	+2.261	—550	— 3.0:	98.8	2	853
2898		8.2	34 12.73	+3.5337	+ 47	00	19 9 12.6	+2.252	—513	0.0	85.4	5	1019
2904		7.2	34 28.00	+4.2296	+ 79		41 3 31.4	+2.229	—614		78.8	3	1257
2905		7.3	34 29.94	+3.8328	+ 59	— 52	29 47 9.0	+2.227	—556		87.0, 91.8	4, 3	964
2906	C	(9.1)	34 34.06	+3.5959	+ 48	00	21 30 39.7	+2.221	—522	— 3.5	83.2, 92.2	6, 5	937
2906	AB	8.8	36.04	+3.5960	+ 48	00	21 30 52.8	+2.218	—522		78.8, 80.6	7, 6	
2908		6.8	34 44.86	+3.9435	+ 63		33 15 4.4	+2.205	—573		80.1	4	1127
2911		8.5	35 20.21	+3.3770	+ 40		12 54 49.9	+2.154	—491		74.6, 73.7	2	869
2914		8.2	35 20.32	+3.7006	+ 52	00	25 18 3.3	+2.154	—537	— 3.0	78.3	5	934
2915		8.6	35 21.39	+4.8534	+118	00	53 16 4.2	+2.152	—705	0.0	76.1	7	941
2917		(7.7)	35 38.71	+4.2016	+ 75	+ 45	40 20 49.3	+2.127	—610	— 8.0	77.3, 91.8	3, 4	1397
2919		8.8	35 48.91	+3.6135	+ 48		22 9 3.1	+2.112	—525		90.9	4	1007
2919		(8.8)	35 49.23	+3.6135	+ 48		22 9 3.2	+2.112	—525		99.2	3	1007
2920		8.1	36 1.46	+3.8672	+ 57	00	30 52 24.5	+2.094	—562	0.0	87.9	4	992
13075	s	8.4	36 19.64	+4.0934	+ 67	00	37 31 10.5	+2.068	—595	— 7.8	12.8, 13.6	4	1306
2924		7.8	36 29.65	+3.7696	+ 52	00	27 40 19.7	+2.053	—549	0.0	86.4, 80.1	7, 9	849
2926		6.2	37 17.04	+5.6562	+175	— 32	62 45 26.3	+1.985	—824	— 2.0	71.8, 70.6	5, 6	784
2927		8.1	36 41.45	+3.8082	+ 54		28 57 28.1	+2.036	—553	+ 6.0	89.2	4	868
2929		(7.5)	36 56.32	+4.5417	+ 91	+ 20	47 50 51.6	+2.015	—660	— 2.2	07.8, 11.4	3, 4	1193
2933		7.2	37 9.12	+3.7292	+ 50		26 17 16.0	+1.996	—542		02.0	5	937
2936		7.1	37			+ 04	15			— 2.3	B 1415		—1008
2937		8.5	37 23.45	+3.6330	+ 46	+ 24	22 51 12.4	+1.975	—528	— 1.9	76.1	5, 6	1017
13078		8.9	38 6.73	+3.7229	+ 48	— 53	26 3 21.8	+1.912	—541	+ 2.7	96.8	2	944
2940		7.5	38 8.30	+3.1601	+ 33	— 09	3 46 31.0	+1.910	—460	— 2.2	79.8	7	1022
2941	B	(7.7)	38 10.17	+3.7174	+ 48	— 28	25 51 48.2	+1.907	—540	0.0	79.8, 80.5	3	963
2941	A	7.7	10.47	73	+ 48		51 34.3				75.3, 76.5	8, 7	
2943		6.1	38 26.02	+3.1642	+ 33	+ 10	3 57 11.9	+1.884	—460	— 2.4	68.6, 67.6	17, 18	1025
2945		7.8	38 31.81	+3.5903	+ 43	00	21 15 56.1	+1.876	—522	— 5.0	75.8, 80.9	5	978
2946		8.2	38 34.01	+3.5619	+ 42	00	20 11 48.0	+1.873	—518	— 3.7	84.3, 85.9	5, 4	1085
2947		6.6	38 27.42	+6.0213	+200	— 65	65 42 28.3	+1.882	—875	— 5.2	81.4	4	497
2954		9.0	39 34.89	+3.6819	+ 45	00	24 35 57.4	+1.784	—536	— 0.0	91.0	4	956
2955		6.6	39 35.04	+4.0084	+ 57	— 25	35 6 35.5	+1.784	—583	+ 0.7	84.7, 85.6	5, 4	1239
2956		8.4	39 39.28	+3.6056	+ 42		21 49 36.5	+1.778	—525	— 7.9	93.0, 86.5	4	984
2959		6.4	40			+ 75	56			— 0.6	B 1427		1065
2960		7.2	40 9.05	+3.8564	+ 50		30 29 16.0	+1.735	—561		82.8, 80.6	4	1015
2961		8.0	40 10.85	+3.5807	+ 41	— 32	20 53 34.6	+1.732	—521		92.6, 97.2	10	1100
2963		7.2	40			+ 02	24			— 2.8	B 1425		963

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
2965		9.5	40 22.20	+3.4970	+ 39	+0.54	17 41 5.2	+1.716	—509	— 2.7	92.2	2	1006
2968		4.6	40 30.88	+4.1562	+ 61	— 25	39 8 9.6	+1.703	—605	— 2.3	79.2, 73.1	16	1418
2969		5.2	40			+ 13	13			— 1.3	S 1993		979
2970		9.3	40 38.72	+3.5852	+ 41		21 3 28.6	+1.692	—522		95.0	3	996
2972		5.9	40			+ 09	20			— 2.2	B 1431		1105
13081		8.1	40 55.21	+4.4068	+ 70		45 2 54.6	+1.668	—641		67.4	5, 4	1181
2974		6.6	41 1.43	+3.3645	+ 35		12 22 17.3	+1.659	—490		79.4, 79.4	3	902
2975		7.5	41 7.92	+3.2575	+ 33	— 20	7 54 49.0	+1.649	—474	0.0	54.8, 59.5	10, 9	1014
2976		5.3	41			+ 06	6			— 2.3	S 1999		1027
2977		7.2	41 18.07	+3.8318	+ 48	00	29 40 56.8	+1.634	—557	0.0	88.8, 82.3	6	1009
2978		8.0	41 21.60	+4.1720	+ 59	— 10	39 31 58.4	+1.629	—607	+ 1.6	82.0, 83.0	4	1421
2981	ma	(8.9)	41 33.86	+3.9353	+ 50	+ 15	32 55 45.1	+1.611	—573	0.0	88.4, 84.6	9, 10	1098
2981	s	(9.0)	38.57	+3.9354	+ 50		45.6	+1.604	—573		70.1, 58.3	2, 3	
2982		(7.5)	41 47.88	+3.3544	+ 34		11 57 9.7	+1.591	—488		73.6	3	945
2983		7.2	41 50.51	+3.1809	+ 31	— 07	4 39 33.1	+1.587	—463	— 4.5	74.8, 73.5	6	1046
2984	ma	6.7	41 48.06	+3.8968	+ 48	00	31 44 36.3	+1.591	—567	0.0	81.1	6	1111
2984	GB		48.22				37.6				71.1, 71.6	3	
2988		(8.7)	42 7.22	+3.6050	+ 39		21 47 10.5	+1.563	—525		94.5	3	1008
2990		9.1	42 16.81	+4.5896	+ 75	+ 25	48 42 5.5	+1.549	—668		68.4	3	1314
3000		8.8	43 5.00	+3.2135	+ 30		6 2 56.0	+1.479	—468		91.2	2	1035
3003	GB	6.8	43 36.75	+4.1339	+ 53	+ 23	38 31 27.6	+1.433	—602	— 2.9	80.8, 80.4	6	1318
3004		6.6	43 41.60	+3.4148	+ 33	— 14	14 24 18.0	+1.426	—497	0.0	62.1, 68.3	17, 9	1047
3006	ma	8.5	43 45.23	+4.1959	+ 54	+ 55	40 6 58.0	+1.420	—611	— 9.8	01.3	4	1435
3007	C	(8.9)	43 48.34	+3.5017	+ 35		17 51 14.9	+1.416	—510		81.7, 81.2	2	1032
3007	A	9.1	48.63	+3.5018	+ 35		51 4.3	+1.415	—510		78.4, 84.1	3, 2	
3010	ma	8.1	43 53.77	+3.7938	+ 41	00	28 24 47.8	+1.408	—553	0.0	76.7	4	919
3010	s	(8.4)	54.51				54.4				98.4	2	
3013		9.1	43 53.95	+4.6698	+ 73		50 8 40.7	+1.408	—680		87.1	3	1242
3014		9.0	43 59.46	+4.0506	+ 49	+ 78	36 15 44.9	+1.400	—590	—13.2	00.0, 00.4	3	1276
3017		7.7	44 34.39	+3.9861	+ 46		34 24 48.0	+1.349	—580		75.1	2	1203
3019	A	8.6	44 46.68	+3.8343	+ 41		29 44 9.1	+1.331	—559	— 5.1	91.1	3	1026
3019	C	(8.5)	47.76	+3.8344	+ 41		17.9	+1.329	—559	— 4.5	97.3	3	1027
3020		6.7	44 57.74	+4.0887	+ 48	— 21	37 18 12.7	+1.315	—596	+ 8.1	91.1, 91.4	3	1347
3022		4.5	45			+ 09	27			— 1.8	B 1457		899
3023		(8.0)	45 28.20	+4.8709	+ 75		53 25 52.1	+1.271	—709		71.3	4	962
3026		(8.5)	45 44.65	+4.1363	+ 48	— 24	38 34 8.2	+1.247	—603		08.4, 01.6	3	1325
3028		7.7	45 47.46	+3.5296	+ 33	00	18 55 7.6	+1.243	—514	+ 3.6	82.9	6	997
3031		7.5	46 13.66	+3.8572	+ 39	00	30 27 51.2	+1.204	—562	0.0	74.8, 80.4	7, 6	1045
3033		7.0	47 15.20	+3.3128	+ 29		10 12 59.0	+1.115	—483		76.6	2	926
3035		7.2	47 20.81	+4.0750	+ 42	— 08	36 54 44.1	+1.107	—594	— 3.7	89.5, 90.0	5, 4	1297
3036		8.2	47 27.10	+3.4420	+ 30		15 28 51.4	+1.097	—502		87.0	2	976
3037	ma	(8.2)	47 39.55	+3.4008	+ 29	00	13 49 41.0	+1.079	—496	0.0	74.4	4, 6	1026
3037	s	(8.7)	41.94	+3.4006	+ 29		49 10.5	+1.076	—496		75.7, 77.6	3, 2	1027
3038		6.8	47 48.96	+3.4099	+ 29	— 15	14 11 39.7	+1.065	—497	— 2.4	86.8, 87.3	5, 4	1074
3039		7.9	47 56.20	+3.1967	+ 27		5 19 38.6	+1.055	—466		79.8	4	1043
3041	med.	8.9	47 2.74			+2.98	84 11 30.4			— 3.7	85.3	7	118
3043		8.1	48 7.27	+3.2363	+ 27		7 0 21.0	+1.039	—472	— 1.8	73.7	3	1054
3047		6.7	48 14.25	+3.2087	+ 27	+ 27	5 50 8.7	+1.029	—468	— 3.9	70.4, 72.5	5	1044
3052		8.5	48 52.45	+3.2828	+ 27		8 57 34.0	+0.973	—479		78.9	2	1115
3053		6.5	48 54.74	+3.4032	+ 28	+2.64	13 55 6.8	+ 970	—496	—44.7	85.3, 85.7	8, 7	1036

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″					
3057		9.0	49 20.94	+4.0803	+ 38	—0.25	37 2 42.8	+0.932	—595		11.0, 11.6	3	1366
3058		9.0	49 24.27	+3.5935	+ 30		21 19 21.1	+ 927	—524		98.1	3	1053
3060		(9.4)	49 27.99	+3.7630	+ 32		27 21 1.5	+0.921	—548		84.7	2	925
3062		7.3	49 10.51	+7.7272	+203	—1.12	73 59 32.0	+0.947	-1.126	0.0	83.3, 83.2	7	311
3064		2.1	50			— 44	44			— 0.5	B 1478		1328
3065		7.8	50 25.05	+3.8314	+ 32		29 36 36.9	+0.838	—558	+ 1.4	84.9, 82.3	3, 4	1058
3069		6.8	51 1.22	+3.0725	+ 24		0 0 36.9	+0.786	—448		02.9	2	1227
3070	G. B.	8.9	51 2.36	+3.0812	+ 24		0 22 55.1	+0.784	—449		00.9	2	1230
3073		6.4	51			— 27	44			— 4.2	B 1483	2	1332
3075		7.8	51 13.21	+4.3254	+ 38	— 18	43 10 6.6	+ 768	—631	0.0	09.7, 12.2	2, 4	1404
3078		5.8	51			— 16	12			+ 2.6	B 1485		968
3081		7.8	52 6.49	+3.5014	+ 26	+ 30	17 48 17.4	+ 690	—511	— 6.2	85.5, 83.9	5	1082
3083		7.4	52 9.46	+3.6246	+ 27		22 27 31.0	+ 686	—528		85.4, 82.0	5, 6	1130
3087		9.1	52 49.33	+4.0171	+ 29	+ 19	35 15 51.3	+ 627	—585		08.4, 02.0	3, 2	1309
3089		6.1	53 9.00	+3.7698	+ 27	— 07	27 33 48.8	+0.599	—550	— 2.0	28.0 S 9		945
3090		7.8	53 9.52	+4.0614	+ 30	— 07	36 30 29.3	+0.598	—592	— 3.5	83.6, 81.1	4	1332
3091		8.5	53 21.46	+3.8263	+ 27		29 26 8.0	+0.581	—559		03.5	2	1074
3092		7.2	53 27.36	+4.1435	+ 30	+ 13	38 42 48.8	+0.573	—604	— 0.6	81.4, 87.6	5, 4	1357
3093		8.5	53 29.74	+3.6486	+ 25	00	23 19 51.2	+0.569	—532	0.0	74.6, 75.1	4	1148
3094		(9.0)	53 37.30	+3.5647	+ 25		20 13 35.8	+0.558	—520		93.9	2	1216
3099		6.3	54 34.36	+4.7570	+ 34	00	51 34 24.5	+0.475	—694	— 5.1	73.3, 64.7	21, 17	1146
3102		8.0	55 7.27	+3.7208	+ 24	+ 23	25 53 1.9	+0.427	—543	— 7.2	81.9	4	1089
3104		8.8	55 10.40	+4.0373	+ 25	— 19	35 49 48.1	+0.422	—589	— 2.6	11.4, 12.1	3	1322
3111		4.2	55			+ 12	9			— 2.9	B 1501		1064
3113		8.8	55 35.01	+3.7723	+ 23	00	27 38 31.9	+0.386	—550	— 3.2	78.2	7	963
3114		(9.1)	55 46.87	+3.0949	+ 21		0 58 22.8	+0.369	—451	0.0	00.1	2	1255
3117		8.8	55 54.62	+3.8957	+ 23		31 37 55.8	+0.358	—568		98.6	3	1181
3121		6.4	56 28.09	+4.1154	+ 23		37 58 0.7	+0.309	—600	— 1.5	76.5, 75.0	11	1405
3123		8.2	56 32.75	+3.8514	+ 22		30 14 10.8	+0.302	—562		87.7	4	1098
3124		8.8	56 42.42	+3.9135	+ 21		32 10 55.3	+0.288	—571		84.1	2	1178
3125		(8.4)	57 2.14	+3.1731	+ 21		4 18 57.3	+0.259	—463	— 2.0	87.4, 88.1	4	1110
3127		7.8	57 1.28	+8.6508	+ 72	— 13	76 31 26.4	+0.261	-1.261	— 1.7	80.4, 80.2	7	226
3129		8.7	57 39.57	+3.5148	+ 20		18 18 56.7	+0.205	—513	— 6.5	97.2, 97.9	4	1078
3130	p	9.3	57 46.66	+6.3797	+ 29		67 59 26.6	+0.195	—930	— 6.6	93.6, 94.2	3	414
3130	s	(8.7)	49.02				31.4			— 9.7			
3133		6.2	58 23.62	+3.8292	+ 19	— 11	29 31 11.6	+0.141	—558	+ 1.1	28.0 S 9		1112
3134		8.6	58 25.04	+3.6541	+ 19		23 31 16.6	+0.139	—533		84.2, 77.6	3	1187
3137		7.1	58 41.94	+3.0926	+ 20	— 04	0 52 22.2	+0.114	—451	— 1.9	80.1	11	1269
3139		6.9	58 52.54	+4.3049	+ 17	— 10	42 40 33.3	+0.098	—628	— 2.5	85.7, 83.2	6, 7	1486
3141		7.9	58 59.89	+3.3683	+ 19	— 55	12 29 15.4	+0.088	—491	0.0	68.1, 68.8	4	1013
3142		6.9	58 59.07	+4.0538	+ 17	+ 22	36 17 3.9	+0.089	—591	— 0.6	83.0, 86.1	5	1360
13093		9.0	59 0.75	+6.5434	+ 16		68 56 8.7	+0.087	—954		88.9	2	427
3144		9.0	59 17.06	+3.5619	+ 18		20 6 51.1	+0.063	—519		85.3, 82.2	4	1259
3146		7.3	59 32.14	+3.3263	+ 18	00	10 45 36.6	+0.041	—485	— 3.2	63.1	5	1004
13091		9.0	59 36.28	+4.0890	+ 16	— 46	37 15 14.6	+0.035	—596	— 2.2	01.8, 06.1	3	1420
3148		7.0	59 37.25	+4.1166	+ 16	— 08	37 59 41.9	+0.033	—600	— 1.2	79.1, 77.8	7	1421
3153	p	(8.9)	59 56.89	+3.8125	+ 16		28 58 21.1	+0.005	—556		07.1	2	1018
3153	s	(8.9)	57.90	+3.8125	+ 16		25.1	+0.003	—556		03.8	3	
3158		(7.7)	0 25.31	+4.0685	+ 14		36 41 36.7	—0.037	—593	— 2.8	11.6, 12.2	3	1367
3159		7.8	0 33.51	3.5937	+ 16	— 33	21 18 30.8	—0.049	—524	— 1.1	77.0, 74.5	6, 8	1125

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″					
3162		(9.1)	0 44.86	+3.0802	+ 19	s	0 20 23.5	—0.065	—449	″	85.6, 82.6	3	1289
3164		8.5	0 54.37	3.1225	+ 18	0.00	2 9 17.1	—0.079	—455	0.0	84.9, 72.5	5, 7	1137
3165		8.1	0 50.32	5.1347	+ 6	00	57 2 50.1	+0.073	—749	— 9.5	83.9	5	945
3166		7.5	1 1.12	3.8845	+ 14	00	31 16 50.3	—0.089	—566	0.0	02.7	5	1207
3168		(9.0)	1 7.04	3.9901	+ 13		34 28 11.8	—0.098	—582		96.7	2	1274
3169		(8.8)	1 12.51	3.4052	+ 16		13 59 9.5	—0.106	—497		67.4, 67.7	2	1120
3172		8.4	1 28.06	3.4917	+ 16		17 25 5.2	—0.128	—509	— 4.8	90.5, 92.0	7, 6	1139
3174	ma	8.3	1 30.69	3.1494	+ 18	00	3 18 15.2	—0.132	—459	— 2.8	78.2	2	1131
3174	G. B.		30.74				16.9				65.3	4	
3176		8.2	1 35.95	3.6799	+ 14	00	24 26 40.0	—0.140	—537	0.0	94.8, 95.2	6	1126
3178		7.8	1 45.91	+3.8212	+ 12	00	29 15 25.7	—0.155	—557	— 2.7	82.8	6	1128
3180		8.3	1 51.00	3.2084	+ 17		5 48 58.2	—0.162	—468		79.5	2	1106
3181		6.8	2			+ 22	48			— 6.2	B 1536		1352
3181		6.1											
3182		5.8	2			+ 11	23			— 1.3	B 1534		1226
3183		7.8	2 11.59	3.3485	+ 16	— 42	11 40 31.7	—0.192	—488	— 6.7	74.3	5	1044
3185		5.6	2 26.46	3.1310	+ 17	— 03	2 31 3.0	—0.214	—456	— 1.7	73.3, 73.7	19	1139
3190		(8.5)	2 54.84	3.2054	+ 16	+ 16	5 41 11.2	—0.255	—467	+ 1.5	64.6, 56.0	3, 2	1117
3191		6.7	2			— 02	23			— 1.3	H		1232
3192		(7.5)	3 3.72	3.4537	+ 14		15 55 40.4	—0.268	—503		66.8	3	1087
3193		(8.0)	2 53.96	6.0999	— 21	00	66 10 35.2	—0.254	—890	0.0	78.0, 79.0	6	435
3194	A	8.0	3 16.36	3.8658	+ 10		30 41 44.9	—0.286	—564		10.0, 00.4	4, 5	1141
3194	BC		17.79	3.8664	+ 10	00	42 48.0	0.288		0.0	92.2, 83.5	6	1142
3198		8.2	3 23.33	3.6929	+ 12	00	24 54 16.0	—0.297	—538	0.0	85.4	6	1148
3200		8.6	3 35.24	4.0271	+ 8	— 26	35 32 21.3	—0.314	—588		08.4, 12.1	3	1356
3201		8.4	3 44.84	3.8069	+ 9	00	28 47 31.8	—0.328	—555	0.0	81.7, 94.4	4, 2	1038
3203		7.4	4 6.90	3.8291	+ 9	00	29 31 0.5	—0.360	—558	+ 1.4	87.3	6	1140
3204	ma	6.9	4 22.62	3.4912	+ 12	00	17 24 9.8	—0.383	—509	— 6.6	95.5	5	1154
3204	G. B.		20.61			00	8.8			— 5.4	75.1, 84.1	4	
3205		8.4	4 30.79	4.7345	— 6	00	51 11 42.6	—0.395	—690	0.0	81.7, 74.6	5, 6	1164
3206		5.7	4			+ 04	19			— 1.4	B 1545		1253
3211		(8.2)	4 35.68	6.0402	— 35	00	65 45 15.6	—0.402	—881	0.0	69.8, 69.2	6	519
3215		9.0	5 9.65	3.6801	+ 9		24 27 15.2	—0.451	—536		99.3	3	1161
3217		8.2	5 19.76	3.8151	+ 8		29 3 46.3	—0.466	—556		74.8	3	1147
13094		9.2	5 27.98	6.3418	— 53		67 45 56.6	—0.479	—924		93.6	2	420
3223		(8.8)	5 51.03	4.1325	+ 1		38 25 32.8	—0.512	—602		04.8, 08.6	3	1419
3229		(8.0)	6 30.58	3.6678	+ 8	— 26	24 1 6.1	—0.570	—534	0.0	88.6, 88.8	7	1168
3230		7.8	6 33.25	3.3146	+ 12		10 16 44.3	—0.573	—483		86.7	2	1054
3234	B	(9.3)	6 34.70	5.6103	— 39		62 13 52.1	—0.575	—818	— 2.4	77.5	2	831
3234	A	(8.9)	6 35.34	5.6108			14 9.7	—0.576			01.9, 04.1	4, 5	
3238	p	7.0	7 13.05	4.0496	— 1		36 11 49.9	—0.632	—590		65.7, 66.0	4, 3	1388
3238	ma	6.4	13.58	4.0497		— 49	59.7			+ 0.9	72.2, 75.4	8, 7	
3239		var.	7			— 45	22			— 1.7	B 1561		1241
3240		(8.0)	7 26.61	3.3525	+ 11	—1.28	11 50 48.5	—0.653	—488		75.7, 76.5	3	1075
3241		5.2	7			— 69	19			—20.1	B 1564		1270
3242	med.		7 34.77	3.4208	+ 10		14 37 15.4	—0.663	—498		70.8, 70.0	2	1213
3242	ma	6.8	35.10			00	15.4			— 6.6	42.0, 41.0	3, 2	
3245	G. B.	(7.5)	8 6.53	3.1265	+ 14	— 13	2 19 28.7	—0.709	—455	— 1.1	76.6, 76.8	8	1171
3250		9.0	8 19.90	4.8910	— 26	+ 50	53 41 58.9	—0.729	—712	— 5.4	85.3	3	1005
3253		9.1	8 10.00	7.7212	—157	— 64	73 57 53.6	—0.715	—1.125		81.6	3	326

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Präec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″		″			
3254	med.	8.4	8 33.91	3.3226	+ 11	s	10 36 56.7	—0.749	—484	— 5.7	61.3	3	1067
3256		(7.7)	8 54.57	3.1656	+ 13	0.00	3 59 42.7	—0.779	—461	+ 2.9	85.9, 86.3	5	1180
3258		7.3	9 9.95	3.5335	+ 7		19 2 59.9	—0.802	—514	+ 6.0	83.8	4	1285
3262		(9.3)	9 31.29	3.1008	+ 13		1 13 29.8	—0.833	—451		01.1	2	1276
3266		(7.5)	9 54.76	3.4525	+ 7		15 53 31.4	—0.867	—503		57.3, 50.7	3	1139
3267		8.1	9 44.91	5.6331	— 63	00	62 27 11.4	—0.853	—820	—12.6	90.5, 91.5	5	833
3270		8.9	10 10.05	3.2135	+ 11		6 2 13.6	—0.889	—467		84.2, 84.3	3	1180
3271		5.3	10			+ 02	9			— 6.3	B 1581		1173
3274		8.2	10 24.89	4.1858	— 11	— 03	39 49 10.0	—0.911	—610	0.0	81.4, 82.0	4	1584
3276		6.0	11			+ 07	14			— 2.0	S 2253		1235
3277		6.0	11			+ 03	59			+ 0.6	B 1588		964
3280		8.2	11 9.82	4.5127	— 24	00	47 10 8.1	—0.975	—657	0.0	63.0, 55.1	3	1287
3288		(7.5)	11			+ 11	23			— 0.9	H		1301
3289		8.4	11 36.76	5.9310	— 92	— 32	64 57 53.6	—1.016	—864	0.0	84.4, 96.1	6	580
3290		8.5	11 49.39	3.4008	+ 6		13 49 28.4	—1.034	—495	— 5.1	74.9, 72.5	2	1194
3291		7.2	12 4.48	3.7965	— 3	00	28 28 35.5	—1.056	—552	— 3.1	67.0	5	1078
3294		7.5	12 9.65	3.6966	— 1	00	25 3 49.9	—1.064	—538	— 5.3	83.3	6	1215
3295		8.8	12 13.42	3.6160	+ 1		22 9 33.6	—1.069	—526		95.2	3	1280
3296		8.8	12 14.32	3.6212	+ 1		22 21 11.4	—1.070	—527		95.6	3	1281
3297		8.8	12 16.04	3.5988	+ 1	— 60	21 31 26.1	—1.073	—524	— 4.1	98.3	3	1196
3298		7.0	12 21.20	3.3923	+ 6		13 28 56.5	—1.080	—493		75.2, 74.7	3	1199
3299		9.1	12 19.60	3.5705	+ 2		20 27 55.0	—1.078	—520		93.5	2	1373
3301		7.7	12 40.63	3.3643	+ 6	00	12 20 31.4	—1.109	—489	— 3.5	69.8, 65.5	5	1110
3303		(7.2)	12 53.84	3.7015	— 2		25 14 23.8	—1.128	—538		95.1, 91.2	4	1225
3305		(7.9)	13 15.97	3.5085	+ 2		18 6 3.0	—1.160	—510	— 3.0	91.5	3	1178
3306		(9.1)	13 15.12	4.0479	— 13	+ 29	36 9 59.9	—1.159	—589	— 3.3	97.4, 98.0	3	1408
3311		7.5	13 24.02	5.3616	— 73		59 45 31.3	—1.172	—781		55.2	3	968
3313		7.1	13			— 70	21			0.0	H		1203
3318		(9.6)	14 3.25	3.7692	— 6		27 34 42.8	—1.229	—548		91.5	2	1081
3319		(9.0)	14 7.43	3.2076	+ 8		5 47 37.1	—1.235	—466		88.3	2	1198
3322		6.0	13 58.89	6.8614	—184	00	70 35 55.8	—1.223	—998	0.0	70.8, 84.3	10, 12	401
3323		(8.5)	14 5.30	7.4591	—241		73 2 51.5	—1.232	—1.085		93.8	3	335
13097		8.8	14 8.11	7.4480	—242		73 2 25.5	—1.236	—1.084		94.8	3	334
3325		(8.5)	14 37.85	3.7442	— 6		26 43 48.6	—1.279	—544		91.2	3	1201
3328		8.2	15 0.94	3.3322	+ 5		11 1 39.0	—1.313	—484		87.2	2	1138
3331		(8.3)	15 27.42	3.8060	— 9		28 48 53.5	—1.352	—553		86.4	3	1101
3333	G. B.	6.8	15 32.69	3.4962	0	00	17 37 58.3	—1.359	—508	— 3.4	02.2	5	1224
3334		8.8	15 34.30	4.1001	— 19	— 51	37 37 4.7	—1.362	—595		13.7, 15.3	4	1498
3335		(7.8)	15 40.77	3.7572	— 8		27 10 39.4	—1.371	—546		94.8, 73.7	3, 4	1092
3337		7.7	15 55.77	3.4692	0		16 34 28.1	—1.393	—504		85.9	3	1118
3338		5.5	15 41.76	5.2474	— 80	00	58 28 59.3	—1.373	—763	— 2.2	79.6, 83.7	10	925
3339		(8.9)	15 56.52	4.7756	— 53		51 56 20.5	—1.394	—694		75.4	4	1188
3341		8.7	16 18.70	3.9873	— 17		34 27 18.5	—1.426	—580		96.9	3	1336
3345		9.0	16 36.44	3.5665	— 3		20 20 19.2	—1.452	—518		98.2	2	1403
3348		9.0	16 44.87	3.9020	— 15		31 53 35.8	—1.464	—567		03.7	2	+1287
13100		9.1	17 2.88	4.0339	— 21		35 48 4.1	—1.490	—586		07.7, 11.6	3	1401
3353		7.7	18 1.16	3.6250	— 7	+ 30	22 31 27.6	—1.575	—526	0.0	79.6, 81.7	6, 7	1323
3354		7.7	18 5.98	3.3213	+ 2	00	10 34 59.0	—1.582	—482	— 3.5	73.3	4	1128
3358		9.0	18 22.93	4.6737	— 57		50 14 4.2	—1.607	—679		07.0	3	1308
3361		6.9	18 50.60	3.5266	— 4	— 85	18 49 51.8	—1.647	—512	—18.7	85.9, 92.3	7, 6	1214

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
3366		8.7	19 10.17	+ 4.0060	— 24	0.00	35 1 35.1	—1.675	—581	0.0	86.8	5	1412
3372		6.7	19 27.38	3.4440	— 2		15 35 36.8	—1.700	—500		71.7, 72.0	3	1197
3374		9.8	19 49.86	3.6822	— 11		24 36 18.3	—1.733	—534		03.4	2	1270
3374		(9.8)	50.06				19.6				03.7		
3377		8.5	20 8.18	3.8565	— 19		30 29 36.1	—1.760	—560		96.4	4	1235
3379		7.8	20 9.54	4.1975	— 36	— 09	40 11 41.0	—1.762	—609	— 2.8	82.2, 80.2	7	1613
3380	p	8.3	20 16.77	3.1687	+ 5		4 8 28.8	—1.772	—460		90.2	3	1255
3380	s	(8.5)	17.07	3.1686			17.0	—1.773			91.8		
3381		8.4	20 13.74	4.0924	— 30	+ 08	37 27 18.4	—1.768	—594	+ 0.1	89.6, 81.9	4	1516
3382	A	7.7	20 17.98	3.0845	+ 7	— 23	0 31 33.9	—1.774	—447	0.0	77.7, 77.6	10	1418
3382	BC		20.18	3.0841		— 53	35.5	—1.777		0.0	79.5, 75.5	7	1419
3383		6.6	20			— 20	20			— 5.6	B 1623		1426
3384		(9.0)	20 18.50	3.8832	— 20		31 20 22.0	—1.775	—563		00.7	2	1301
3385		8.6	20 21.89	4.0164	— 27	+ 13	35 20 14.4	—1.780	—583	— 5.1	82.1, 92.1	3, 4	1420
3389		(9.0)	20 53.88	4.8987	— 82		53 54 38.1	—1.826	—711		78.4	3	1029
3390		(8.3)	20 44.46	3.4482	— 4		15 46 6.0	—1.812	—500		65.9, 71.1	4, 2	1203
3392		8.0	21 18.92	4.0638	— 31	— 06	36 40 52.6	—1.836	—589	— 2.3	90.4, 90.7	5	1446
3396		7.2	21 34.44	3.1968	+ 3	— 09	5 20 52.1	—1.885	—463	— 2.2	68.4, 68.8	4, 5	1249
3397	B, p	(8.5)	21 28.35	3.5650	— 9	00	20 18 57.6	—1.876	—517	0.0	81.1, 83.9	10	1440
3399		8.4	22 15.44	3.8569	— 23		30 31 38.3	—1.945	—559		03.9	4	1245
3404		(9,0)	22 47.14	3.7143	— 17	— 14	25 45 49.6	—1.991	—538	0.0	81.9, 77.9	4, 5	1301
3405		7.3	22 43.53	3.5042	— 8		17 59 13.0	—1.985	—508	— 4.1	93.3, 86.8	5	1268
3406		6.8	22 48.86	3.6267	— 13	00	22 37 32.9	—1.993	—525	0.0	67.5, 73.3	10, 11	1352
3409		7.6	23 7.32	3.5052	— 8		18 1 51.8	—2.020	—508		84.1	4	1237
3410		7.7	23 11.50	3.2401	+ 1		7 11 33.1	—2.025	—469		78.7, 73.2	2, 3	1314
3412		(8.0)	23 14.90	3.5696	— 11	— 42	20 30 11.9	—2.031	—517	0.0	81.0	6	1454
3416		6.9	23 28.04	3.9114	— 28	00	32 15 1.4	—2.050	—567	0.0	62.1, 77.0	5	1320
3417	ma	(8.6)	23 38.41	3.6042	— 13		21 48 5.1	—2.065	—522	— 3.7	95.5	5	1270
3417	s	(8.8)	39.08			— 33	9.0	—2.066		— 3.5	95.5		
3418		9.2	23 36.26	5.0994	—112		56 44 1.7	—2.062	—739		70.8	3	1130
3420		8.0	23 48.96	3.7932	— 22	— 41	28 27 59.5	—2.080	—549		86.0, 88.0	4	1142
3421		7.9	23 52.49	3.1749	+ 3	— 76	4 24 53.7	—2.085	—460	— 0.8	78.0, 79.6	4	1282
3422		6.2	23			— 13	17			— 9.0	S 2366		1275
3423	p	(7.7)	23 57.11	4.8083	— 88	00	52 33 8.3	—2.092	—696	— 8.5	01.5, 11.4	2	1097
3423	ma	6.8	57.44				6.6				83.2, 81.8	9, 6	
3426		7.8	24 6.75	3.4490	— 7		15 49 17.0	—2.106	—499		74.8, 76.6	4	1221
3427		5.8	24 12.36	3.3387	— 3	00	11 20 6.8	—2.114	—483	0.0	70.3, 78.6	7, 7	1204
3431		7.7	24 49.73	3.1418	+ 3	— 82	2 59 45.7	—2.168	—455	— 1.5	80.0	4	+1279
3434		6.8	24 59.54	3.2085	+ 1	00	5 51 19.6	—2.183	—464	— 2.9	69.1, 70.3	6, 5	1280
3435		6.7	25			+ 56	17			+ 2.6	B 1650		1286
3437		7.1	25 9.84	3.4481	— 8		15 47 36.0	—2.197	—499		73.7, 65.3	2, 3	1230
3438		8.4	25 13.01	3.5817	— 14	00	20 58 29.7	—2.202	—518	0.0	84.4	4	1471
3439		6.8	25 16.96	3.1892	+ 1	00	5 1 46.2	—2.208	—461	0.0	63.0, 71.0	12, 9	1283
3440		6.2	25			00	11			— 5.0	S 2378		1213
3441	p	(8.3)	25 27.70	3.7023	— 20	— 68	25 22 9.1	—2.223	—536		99.7, 99.2	4, 3	1317
3441	s	(8.8)	28.67	3.7025	— 20	— 44	29.4	—2.225	—536		99.2	3	1318
3442		8.5	25 28.71	3.1899	+ 1		5 3 29.7	—2.225	—461		96.1	3	1285
3443		6.6	25 45.18	4.1165	— 44	+ 04	38 10 2.0	—2.249	—596	— 1.3	82.0, 80.4	7	1523
3448		9.0	26 2.04	3.8787	— 30		31 15 42.3	—2.273	—561		03.7, 05.0	3	1333
3449		7.1	26 5.46	4.1339	— 46	+ 01	38 37 57.3	—2.278	—596	+ 0.3	86.0, 94.3	5, 4	1528

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
3450		7.4	26 3.67	+5.8993	—213	0.00	64 49 57.2	—2.276	—854	— 1.4	86.9, 94.3	8	593
3455	p		26 32.15	3.6145	— 17		22 12 38.0	—2.317	—523	— 4.8	86.0, 84.8	5, 6	1384
3455	ma	8.0	35.62	3.6146		— 26	2.4	—2.322		— 3.9	81.7, 79.3	6, 7	1386
3456		7.4	26 37.78	4.0787	— 44	+ 01	37 9 30.3	—2.323	—590	— 1.8	89.8, 88.3	4	1539
3457		6.9	26 49.70	4.1026	— 45	+0.12	37 48 38.6	—2.342	—593	— 4.1	88.4, 87.8	5	1540
3464		8.8	27 6.7	5.4799	—171		61 7 36.7	—2.367	—793		68.2, 65.5	3	895
3465		7.9	27 9.83	6.2656	—272		67 25 33.8	—2.371	—906		87.6	4	441
13104		9.4	27 40.66:	4.3699	— 67	— 58:	44 21 16.2:	—2.416	—632	— 4.6:	62.4	2	1493
3467		8.1	27 43.29	4.1126	— 48	+ 42	38 5 36.8	—2.420	—594	—13.3	94.0, 94.2	5	1537
3468		8.0	27 47.26	3.7886	— 28	— 45	28 21 37.6	—2.425	—547		92.1, 91.9	3	1173
3469		6.4	28			— 09	7			— 0.9	B 1674		1357
3470	ma	7.8	28 50.60	4.2353	— 58	— 22	31 13 0.7	—2.442	—612	— 1.8	78.7	4	1472
3470	s	(8.5)	0.82	4.2354		— 26	7.0	—2.445			90.2	2	
3472		8.5	28 22.02	3.8445	— 32		30 12 14.1	—2.476	—555		98.7, 84.7	2, 3	1275
3473		8.8	28 24.11	4.1206	— 50	— 47	38 18 56.3	—2.479	—595	— 3.2	14.2, 14.4	4	1542
3474		6.9	28 36.64	3.7593	— 28		27 22 49.0	—2.497	—543	— 9.0	86.5, 85.5	6	1164
3480		8.4	28 41.04	4.1285	— 51	— 10	38 31 45.7	—2.504	—596	— 3.0	83.0, 83.8	4	1546
3481		9.0	28 45.57	4.9768	—126		55 8 41.0	—2.510	—719		76.5	4	1101
3483		7.0	29 0.03	3.3978	— 10		13 47 33.3	—2.531	—490		72.6, 70.9	2	1329
3484		8.1	28 53.72	5.2114	—152	— 22	58 11 0.5	—2.522	—753	— 3.0	83.2, 79.4	8	949
3487	A	(8.5)	29 15.57	3.1978	— 2		5 24 30.3:	—2.553	—461	— 4.7:	84.6	3	1315
3487	B	(9.3)	17.52	3.1977	— 2		24 21.4	—2.556	—461		80.1	2	1317
3487	C	(9.3)	17.57	3.1979	— 2		24 55.1	—2.557	—461		80.5	2	1318
3489		(9.1)	29 28.91	3.7589	— 29		27 22 34.1	—2.573	—542		79.6, 78.2	3	1172
3490	ma	6.8	29 49.81	4.2527	— 64	+ 28	41 41 6.8	—2.603	—614	0.0	61.2, 68.5	3	1480
3490	med.		29 49.84	4.2527	— 64	+ 28	41 41 7.0	—2.603	—614	0.0	80.7, 72.3	5	1480
3492	p	(9.2)	30 4.17	3.6555	— 24		23 45 2.4	—2.624	—527		81.9	1	1429
3492	ma	8.7	4.29				2.3				83.8, 84.2	2	1429
3495	ma	(8.8)	30 11.29	3.6425	— 24		23 16 47.7	—2.635	—526		84.4	5	1432
3495	s	(9.2)	30 12.81	3.6424			30.7	—2.636			89.6	3	
3497		8.2	30 27.3	4.2701	— 67	— 23	42 6 38.1	—2.657	—616	— 3.0	78.7, 84.8	5, 6	1586
3499		(7.9)	30 34.79	3.3610	— 10	— 66	12 17 34.7	—2.668	—484	—24.0	88.8	5	1219
3506		(9.1)	30 58.30	4.2800	— 69		42 21 16.4	—2.702	—617		62.6	2	1587
3507		(7.4)	31 2.69	3.7740	— 33	— 22	27 54 40.2	—2.708	—545	— 2.6	88.2, 82.3	3, 4	1182
3508		(8.3)	31 9.14	3.8903	— 40	— 27	31 41 56.8	—2.718	—561	— 3.9	92.9	3	1370
3512		8.0	31 21.27	4.5622	— 95	00	48 21 55.6	—2.735	—658	— 2.8	94.9, 84.6	4, 5	1411
3513		9.0	31 20.97	4.5593	— 95		48 18 39.0	—2.735	—657		92.3, 91.4	2, 3	1412
3515		6.9	31 34.04	4.2266	— 66	— 53	41 4 43.1	—2.753	—609		81.3, 88.5	5, 4	1484
3516		(8.3)	31 26.07	5.3488	—183	+1.27	59 48 35.7	—2.741	—772	— 4.2	16.8 S 7	2	1006
3517		8.8	31 37.44	4.1615	— 61	00	39 26 21.2	—2.759	—600	0.0	11.4, 11.7	4	1696
3518		5.8	31	3.7873	— 35	— 08	28	—2.762	—546	— 2.3	B 1697		1196
3519		8.6	31 45.47	4.0181	— 50	00	35 32 15.7	—2.770	—579	0.0	10.8, 13.3	4	1462
3521		7.8	32 19.05	3.2998	— 8	— 74	9 45 15.5	—2.818	—475		91.7, 91.7	3, 2	1322
3524		(8.9)	32 36.08	3.1288	— 1		2 26 42.4	—2.843	—450		95.2	2	1328
13106		8.8	32 45.64	3.6946	— 30	— 27	25 11 17.7	—2.857	—532		98.0	2	1378
3527		(8.5)	33 1.01	3.5417	— 21		19 32 4.6	—2.879	—510		92.7, 84.1	5, 6	1433
3532		6.5	33	3.7847	— 37	+ 06	28	—2.918	—545	— 1.5	B 1704		1207
3533		9.2	33 25.08:	5.1939	—174	+1.17:	58 3 27.9:	—2.914	—749	— 6.8:	96.3	2	960
3534		7.8	33 35.84	3.3038	— 10	00	9 55 48.8	—2.929	—475	+ 7.7	78.4	4, 3	1331
3536		7.6	33 36.88	3.5735	— 24		20 45 29.4	—2.931	—514	+ 1.8	88.0, 81.0	3, 4	1528

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″			″			
3541		(8.1)	34			+0.01	59			+ 2.4	B 1712		1013
3542		4.7	34	s		+ 30	10	″		— 0.7	B 1706		+1220
3545		8.9	34 19.44	+3.2070	— 6		5 49 16.4	—2.992	—461		71.1	2	1362
3546		7.0	34 17.76	3.2954	— 10	+ 94	9 34 48.9	—2.990	—474	— 4.4	84.7	3	1344
3548		6.6	34 19.13	3.2840	— 9	00	9 5 58.4	—2.992	—472	— 4.7	78.5, 67.7	5, 6	1345
3549		8.7	34 29.62	3.3017	— 10		9 50 44.7	—3.007	—475		86.4, 85.3	3	1349
3550		(7.8)	34 29.29	3.7051	— 33	— 21	25 35 6.3	—3.007	—533	— 2.2	78.7, 75.0	4, 5	1392
3552	med.	9.1	34 37.30	3.3040	— 10		9 56 42.3	—3.018	—475		81.1	2	1351
3554		8.0	33 45.34	+3.8605	— 43	00	30 47 53.5	—2.943	—556	— 2.0	82.3	3	1303
3555		(8.4)	34 35.90	4.8189	—134		52 53 1.0	—3.016	—693		94.0	2	1118
3559		4.9	35			— 20	59			+ 0.1	B 1716		1015
3560	G. B.	(7.3)	35 31.13	3.1499	— 4	— 08	3 21 57.6	—3.096	—452	— 0.4	79.5, 80.5	4, 5	1359
3562		6.9	35			— 15	40			—17.0	C 1199		1696
3567		7.8	36 11.37	3.1145	— 3	— 15	1 50 7.4	—3.154	—447	— 2.5	79.6	4	1472
3568		3.2	36	3.6950	— 35	00	25	—3.158	—531	— 2.0	B 1717		1406
3571		(8.2)	36 21.85	4.7590	—135	— 43	51 57 6.7	—3.169	—684	+ 3.9	91.2, 77.2	5	1231
3572		9.0	36 27.34	3.7887	— 42	— 19	28 29 29.5	—3.177	—544	—22.9	93.9	3	1219
3575		4.6	36			+ 04	13			— 7.6	B 1721		1390
3576		8.6	37 1.84	3.6479	— 33		23 34 16.0	—3.226	—524		96.3	2	1480
3577		9.0	37 2.19	3.8408	— 47		30 13 9.6	—3.227	—551		13.9, 97.6	1, 3	1316
3580		7.1	37 7.66	3.8635	— 49	00	30 57 3.7	—3.235	—555	— 4.2	97.8, 93.0	6	1318
3583		8.6	37 30.63	3.8184	— 46	— 63	29 29 37.9	—3.268	—548	— 4.4	84.9	3	1332
3584		7.2	37 43.68	3.6816	— 36		24 47 53.6	—3.286	—528		89.0, 87.9	6	1386
3585	ma	5.3	37			+ 07	43			+15.8	B 1724		1595
3585	s	(9.0)	37 45.37:	4.3331	— 93	— 16:	43 42 42.8	—3.289	—622	0.0	67.4, 76.2	8	
3586		(9.2)	37 52.73	3.3983	— 18		13 53 10.3	—3.299	—487		84.1	3	1392
3587		6.3	37			+ 78	55			—10.8	B 1726–27		1122
3589		(8.0)	38 14.70	3.1599	— 6	+ 20	3 48 20.0	—3.331	—453	+ 0.6	79.0, 78.1	4	1382
3591		(9.2)	39 0.06	3.1879	— 8		5 1 2.2	—3.396	—457	— 7.6	83.4, 78.1	3	1396
3593		8.1	39 2.67	3.5088	— 26		18 19 53.1	—3.400	—503		95.1	3	1393
3600		7.0	39 36.74	4.8307	—158	— 45	53 10 5.1	—3.449	—692	— 5.5	77.1	7	1069
3601		6.2	40			+ 02	18			— 5.6	H		1349
3604	A	8.5	40 19.76	3.3293	— 16	+ 45	11 3 1.4	—3.511	—476	— 5.1	85.8	3, 3	1303
3604	D	(8.7)	22.78	3.3294			18.1	—3.515			83.8	2, 2	1304
3606		8.8	40 22.20	3.7382	— 44		26 50 12.0	—3.514	—535		84.3	3	1358
3606		8.7	40 23.91	3.7383	— 44		26 50 24.3	—3.517	—535		89.9	4	1358
3611		(7.3)	41 10.85	4.1611	— 84	— 42	39 36 59.2	—3.584	—595		14.3, 02.0	3, 2	1754
3612		7.3	40 45.91	4.4503	—115	— 17	46 19 20.4	—3.548	—637		79.8, 82.8	6, 5	1192
3615		6.9	41 22.28	3.0831	— 4	+ 04	0 28 28.4	—3.600	—441	+ 1.0	85.5, 89.8	12, 11	1604
3616		8.8	41 20.49	4.3376	—103		43 53 33.2	—3.598	—621		63.9, 64,1	3	1604
3618		8.2	41 30.53	4.1793	— 87	— 39	40 5 31.8	—3.612	—598	— 2.2	79.8, 92.1	6	1729
3625		5.4	42	5.3122	—242	00	59	—3.659	—761	— 4.7	B 1753		1028
3630		8.5	42 50.90	3.4202	— 24		14 50 3.4	—3.728	—489		71.4	2	1456
3633		8.2	42 50.90	4.8046	—168		52 49 38.5	—3.728	—687		95.0	2	1140
3637		8.4	43 20.00	4.1957	— 93	— 40	40 33 1.3	—3.770	—599	— 9.9	88.3, 76.3	3	1738
3639		9.2	43 29.78	4.6193	—145		49 40 48.6	—3.783	—660		59.6, 86.6	2	1456
3641		7.0	43 36.27	4.7325	—161	— 32	51 39 54.9	—3.793	—676		74.1, 70.1	6	1249
3642		(9.0)	43 42.39	4.6054	—144		49 25 45.6	—3.801	—658		63.2	2	1557
3646		(9.0)	44 2.36	3.5193	— 32		18 48 39.3	—3.830	—502		89.0	3	1371
3647		5.2	44			— 07	21			— 4.1	B 1759		1405

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1855	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″					
3648		8.9	44 3.16	+3.6896	— 46	—0.51	25 11 36.8	—3.831	—527		91.0	3	1465
3651		8.5	44 26.02	3.5622	— 36		20 51.7	—3.864	—508		00.0	4	1598
3653		6.1	44 25.35	4.1352	— 89	+ 04	39 0 57.0	—3.863	—590	″ + 0.8	71.0, 69.3	12, 14	1771
3655	G. B.	9.2	44 31.72	3.1181	— 8		2 0 3.5	—3.872	—444		89.0, 89.1	3	1427
3662		8.9	45 4.80	3.6869	— 47	— 28	25 7 4.1	—3.919	—526	— 4.2	91.9	6	1478
3664		(8.4)	45 12.13	3.7947	— 57		28 51 34.0	—3.930	—541		92.9	2	1266
3666		8.5	45 20.59	3.0862	— 7	00	0 36 23.1	—3.942	—440	0.0	95.5, 96.4	5	1660
3668		9.4	45 52.30	3.9509	— 73	+ 31	33 50 42.8	—3.987	—563		78.4	3	1427
3670		8.0	45 56.14	4.5645	—146	00	48 42 0.2	—3.993	—651	0.0	95.9, 89.3	4, 5	1450
3671		(8.4)	45 50.73	5.9381	—391		65 25 47.2	—3.985	—847		87.1	2	550
3678		4.5	46	5.2163	—252	+ 06	58	—4.037	—743	—13.4	B 1776		982
3681		6.6	46 53.63	3.5831	— 40	+ 21	21 18 56.3	—4.075	—510	— 4.2	88.4, 85.1	7, 8	1426
3684		8.8	46 53.02	4.9268	—205	— 53	54 47 59.6	—4.074	—702		96.0	2	1089
3685		6.7	47 0.90	4.0975	— 91	— 30	38 4 15.7	—4.085	—583	— 4.7	75.8, 76.6	8	1641
3687		(7.6)	47 22.61	3.2292	— 16		6 50 26.8	—4.116	—459		73.3, 76.4	4	1427
3688		8.0	47 20.28	4.4606	—137	00	46 41 43.1	—4.113	—635	— 2.1	74.7, 78.0	6, 5	1204
3689		8.1	47 27.22	3.8376	— 64	+2.18	30 19 19.9	—4.123	—546	—21.8	94.6, 92.4	3	1359
3689		(8.0)	27.25			+1.75	31.0			—21.2	85.9, 85.5	9, 7	
3690		6.8	47 28.10	3.5936	— 42	— 28	21 43 32.2	—4.124	—511	0.0	85.5, 88.7	5, 4	1428
3694	A	6.8	47 23.80	8.0970	—1035	—1.88	75 24 15.0	—4.118	-1.154	—25.8	78.6, 81.5	8	281
3694	B	(7.6)	47 25.45	8.0979	—1035	—2.14	75 24 26.2	—4.120	-1.154	—27.2	96.6, 92.0	2, 3	281
3698		8.2	47 57.56	3.9750	— 79		34 36 57.4	—4.166	—565		92.9, 96.5	4, 3	1495
3699		8.1	48 3.74	3.1354	— 11	— 39	2 45 59.4	—4.175	—445		95.6	2	1457
3700		8.5	48 2.53	3.2947	— 20	+ 11	9 39 17.6	—4.173	—468	— 3.9	71.0	4	1432
3701		8.7	48 9.93	3.9087	— 73		32 36 25.8	—4.184	—556	—13.7	89.8, 82.4	3, 5	1442
3702		9.0	48 13.52	3.1571	— 12		3 42 50.2	—4.189	—448		83.1	4	1456
3706		(8.7)	48 40.07	3.8003	— 63		29 7 26.7	—4.227	—540	+ 2.8	95.6	2	1407
3708		8.7	48 55.63	3.1346	— 11		2 43 54.8	—4.249	—445		99.5	2	1463
3710	ma	7.6	49 21.44	3.6846	— 53	— 27	25 7 5.0	—4.286	—523		98.3	4	1509
3710	G. B.		21.42			— 13	7.3				63.4, 50.0	3, 4	
3711		8.3	49 24.22	3.3305	— 24		11 11 13.6	—4.290	—473		86.0	2	1368
3712		9.1	49 24.08	4.1514	—102	— 39	39 33 59.5	—4.289	—589	— 2.3	09.1, 09.3	4	1796
3715		7.9	49 41.29	3.1287	— 11	— 40	2 28 30.4	—4.314	—444	+ 4.6	78.8	5	1468
3723		9.2	49 49.58	7.3009	—812	00	72 50 36.4	—4.326	-1.038	— 6.8	87.8	5	345
3724		(9.3)	50 17.55	3.5779	— 44		21 10 48.3	—4.365	—507		95.9	3	1445
3731		(7.9)	51 1.07	3.4069	— 31		14 23 35.2	—4.428	—483		73.9, 72.7	5, 4	1509
3732		7.3	50 59.91	4.0643	— 96	— 09	37 15 52.2	—4.426	—576	— 0.5	83.7, 87.0	4	1628
3735		8.8	51 18.82	4.2944	—126	00	43 29 7.5	—4.452	—609		84.4, 93.4	3	1630
3739	ma	8.2	51 40.48	3.6910	— 57	— 17	25 24 2.8	—4.484	—523	— 1.4	77.9	4	1524
3739	s	(8.7)	42.18			— 75:	11.7	—4.486		— 1.6	94.4	2	1525
3743	AB	8.3	51 51.17	3.5180	— 41		18 53 16.5	—4.499	—498		95.2	3	1435
3743	D	(9.0)	53.33				43.5				84.7	2	
3747		6.0	52 22.61	3.1581	— 15	— 12	3 46 11.4	—4.543	—447	+ 0.2	80.2	6	1488
3752		7.0	53			— 09	16			— 1.2	B 1803		1354
3755		9.0	52 56.58	3.7479	— 64	+ 41	27 26 21.9	—4.592	—530	— 2.9	06.9, 02.7	4, 5	1294
3756	ma	9.0	52 57.99	4.1646	—113		40 0 33.9	—4.594	—589	— 4.2	23.5, 23.4	2	1776
3756	med.		52 58.36				29.3				94.4, 09.4	1, 2	
3757	A	7.5	52 56.93	4.8866	—226		54 20 55.4	—4.592	—692	— 5.2	69.8, 70.1	5	1101
3757	BC		57.97	4.8867			59.9	—4.594			77.6	2	
3760		7.8	53 36.33	3.3700	— 30	— 29	12 53 47.8	—4.648	—476		61.7, 62.2	3	1381

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″					
3762		8.6	53 41.27	+5.0458	—259	—0.30	56 37 5.0	—4.655	—714	″	73.6, 77.9	4, 3	1173
3763		8.9	53 50.85	3.7275	— 63	— 17	26 44 50.5	—4.669	—527	+ 1.4	79.9, 87.1	5, 4	1427
3764		7.7	53 56.68	3.3622	— 30		12 34 21.9	—4.677	—475		79.5, 80.1	3	1384
3768		6.8	54 11.79	3.3473	— 29		11 56 54.0	—4.698	—472	— 6.6	73.3	4	1408
3770		8.8	54 33.60	3.1455	— 15		3 13 36.8	—4.729	—444		00.2	2	1508
3774		(6.8)	54 24.31	7.1063	—820		72 8 42.2	—4.716	—1.005		90.0	3	347
3778		(8.9)	55 2.61	3.1339	— 15		2 43 11.6	—4.770	—442		99.7, 89.7	2, 3	1514
3785		(8.0)	55 18.26	3.3662	— 32		12 45 48.4	—4.792	—475		72.0, 73.6	2	1395
3786		9.0	55 18.25	3.9623	— 92		34 26 59.8	—4.793	—559		88.1	2	1515
3787		8.7	55 20.90	3.6676	— 59		24 38 6.7	—4.796	—517		92.7	2	1508
3789		7.9	55 17.99	5.5908	—388		62 43 48.5	—4.792	—790		70.8	5	902
3792		7.7	55 48.61	3.3782	— 33		13 16 5.7	—4.835	—476		73.7, 73.5	2	1531
3793	A	6.2	55 43.29	4.7906	—220	— 44	52 56 34.0	—4.828	—676	— 5.7	79.2, 75.3	7, 8	1166
3793	B	(6.8)	43.72			— 46	31.0			— 7.5	86.2, 85.6	6	
13121		8.3	56 23.25	3.6608	— 60		24 24 43.4	—4.884	—516		99.0	3	1515
3797		var.	56			— 03	20			— 0.8	B 1815		1687
3803		8.7	57 3.28	3.7700	— 73	+ 52	28 18 12.4	—4.941	—531	— 9.8	82.0	4	1305
3807		9.0	57 30.64	4.0213	—103	— 39	36 14 1.3	—4.980	—566	— 0.7	88.8, 82.4	4	1562
3808		9.0	57 40.16	4.1002	—115	— 46	38 26 45.6	—4.993	—577		04.1, 04.4	3	1683
3809		7.4	57 45.60	3.1800	— 19	— 35	4 45 21.1	—5.001	—447	— 3.7	96.2	4	1567
13122		9.2	57 47.74	3.6735	— 64		24 54 48.8	—5.004	—517		06.0	2	1521
3814		8.9	58 1.60	3.7127	— 68	00	26 19 36.8	—5.023	—522	— 1.9	88.8, 83.9	5	1451
3816		8.9	58 8.81	4.0912	—115	— 03	38 12 55.0	—5.033	—576	— 3.2	08.4, 08.8	3	1686
3818		8.2	58 15.00	3.5737	— 53	+ 17	21 10 55.1	—5.042	—502		83.5, 95.6	4, 3	1503
3819		9.4	58 16.38	3.5920	— 55		21 52 58.8	—5.044	—505		99.2	3	1504
3831		(7.1)	59 40.33	3.6572	— 64		24 21 35.4	—5.163	—513	— 6.1	02.8	4	1531
3834		8.3	59 57.42	3.4678	— 45		17 1 49.4	—5.187	—486	— 4.0	86.0, 83.1	6	1495
3836		8.5	0 29.35	4.0132	—109	— 25	36 5 33.6	—5.232	—563	+ 1.8	92.0, 92.3	4	1569
3837		(9.0)	0 33.26	3.2860	— 29		9 24 8.8	—5.238	—460	+ 4.4	85.8	3	1519
3840	A	(8.7)	0 52.36	3.6789	— 69	00	25 11 6.2	—5.264	—516	0.0	81.2, 75.8	5, 6	1584
3840	B	(9.1)	0 54.18	3.6789	— 69	00	25 11 1.3	—5.267	—516	— 2.2	97.4, 84.5	2, 3	1584
3843		6.7	1 2.27	4.0357	—114	— 56	36 45 33.1	—5.278	—566	— 1.4	75.8, 82.2	7, 8	1571
3844		5.6	1			— 07	16			—11.1	B 1835		1397
3845		8.5	1 6.78	4.1044	—124	— 15	38 40 11.7	—5.285	—575	0.0	90.0, 94.8	5	1697
3847		8.0	1 20.30	5.1125	—314		57 42 29.9	—5.303	—717		66.2	4	1054
3849	A	7.6	1 33.63	3.4689	— 47	00	17 6 13.8	—5.322	—486	— 5.3	82.8	4	1506
3849	B	(8.2)	1 33.43				21.4				84.6	3	
3852		8.5	1 42.78	4.0911	—123	— 11	38 19 41.8	—5.335	—573	+ 0.7	77.4, 60.7	5	1699
3853		7.0	1	3.6989	— 72	— 94	25	—5.352	—518	—18.6	C 1266		1594
3855		8.8	2 19.87	4.6966	—230		51 35 33.4	—5.387	—657		9.34	2	1292
3856		8.1	2 25.88	3.8325	— 89		30 33 30.8	—5.396	—536		84.4	3	1436
3858		7.7	2 31.26	4.9815	—291		56 0 24.2	—5.403	—697		72.2	4	1191
13127		8.9	2 33.07	4.3706	—170		45 14 25.4	—5.406	—611		77.1	2	1396
3862		4.5	3			— 19	30			— 4.7	B 1840		1439
13130		8.6	3 38.13	3.9790	—111	— 30	35 11 31.4	—5.498	—556	— 4.0	08.8, 09.0	3	1570
3872		7.4	4 30.81	3.6038	— 64	+ 31	22 29 4.6	—5.571	—502	— 2.9	78.2	9	1609
3872		(7.4)	31.17:	3.6039		+ 44:	11.8:			— 9.9:	85.6, 79.7	6	
3873		7.6	4 27.54	4.5346	—206	00	48 42 20.8	—5.566	—633	— 1.2	77.6, 84.7	7, 6	1489
3875	AB	7.2	4 55.09	4.7606	—254		52 45 17.3	—5.605	—664	— 4.3	67.3	7	1184
3876		6.4	5 2.35	3.7385	— 81	— 06	27 26 3.5	—5.615	—521	— 8.5	68.1, 64.9	10, 9	1337

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
3878		7.7	5 19.77	+3.5792	— 62	0.00	21 33 36.7	—5.639	—498	— 2.5	80.7, 84.5	5, 4	1542
3880		7.2	5 26.43	3.8849	—101		32 21 13.9	—5.649	—541		73.6, 74.1	3	1502
3882	GB	7.4	5 40.47	3.4251	— 46	+ 05	15 23 8.8	—5.668	—477	— 1.4	94.9	4	1504
3884		9.1	5 32.92	5.4437	—423		61 35 35.4	—5.658	—759		04.8	2	951
3890		7.7	5 59.33	3.7742	— 87	— 26	28 42 12.7	—5.695	—525	— 1.8	74.8, 74.1	7, 8	1342
3893		5.3	6			+ 08	16			— 5.0	B 1856		1417
3904		8.6	6 57.58	4.5158	—211	00	48 25 46.9	—5.776	—628	— 2.5	80.5	5	1493
3905		6.0	7			+ 37	25			— 9.2	B 1861		1618
3907		7.4	7 4.45	4.4866	—206		47 51 9.6	—5.786	—624		86.7	2	1420
3908		9.2	6 58.34	5.6675	—497	+ 30	63 44 33.5	—5.777	—789	— 2.2	72.0, 75.3	5, 6	700
3909		8.3	7 10.96	3.4386	— 49		15 58 15.1	—5.795	—478		83.8	5	+1422
3912		8.2	7 26.65	3.6989	— 79	— 56	26 5 36.0	—5.817	—514	+ 2.2	94.8	2	1498
3913		9.0	7 32.74	3.4096	— 46	+ 32	14 46 27.5	—5.825	—473	+ 4.1	85.4, 85.9	4	1606
3914		7.8	7 21.38	6.3648	—731		68 45 42.5	—5.809	—886		83.7	4	472
3915		8.5	7 38.12	3.1710	— 25	— 14	4 25 9.9	—5.833	—440	— 1.0	81.8, 78.5	5	1631
3926		8.8	8 24.62	3.8377	—100		30 55 18.2	—5.898	—532		99.5	2	1466
3931		6.5	8 55.54	3.0734	— 18	— 18	0 3 14.5	—5.941	—426	0.0	64.9, 75.0	7	1871
3936		7.0	9 11.70	3.6608	— 77	— 25	24 45 17.9	—5.963	—507	— 3.8	85.8, 84.1	8, 9	1592
3939		8.7	9 30.72	3.2018	— 28		5 48 0.8	—5.990	—443		91.9	2	1610
3943	A	7.5	9 40.90	4.9039	—308		55 8 44.9	—6.004	—680	— 3.3	76.5, 79.5	6	1185
3943	B	(8.0)	41.68	4.9042	—308		8 3.0	—6.005	—680		77.1, 81.8	4	
3944		8.0	9 50.20	3.9710	—122	+ 05	35 10 23.7	—6.017	—550	— 2.6	74.6, 89.6	5	1588
3946		(8.2)	9 59.32	3.2875	— 36		9 34 52.6	—6.030	—455	+14.8	76.2, 75.5	3	1595
3948		6.3	10			+ 11	60			+ 0.7	B 1894		1048
3949		7.0	10 48.33	3.2858	— 37	— 24	9 31 3.4	—6.098	—454	—13.0	82.1, 76.0	8, 9	1603
3950		9.0	10 49.72	4.5145	—224		48 33 14.4	—6.100	—625		69.8, 71.6	2	1513
3951		3.6	10			— 33	16			— 4.8	B 1886		1443
3957		(8.7)	11 25.74	3.4567	— 55		16 48 37.8	—6.150	—477		87.5, 86.8	4	1445
3959		(9.1)	11 27.00	3.7630	— 94		28 29 43.36	—6.151	—520	— 3.7	81.7, 67.8	2, 3	1363
3960		9.0	11 33.46	3.6103	— 74		22 55 29.7	—6.160	—498		99.3	2	1639
3961		(9.0)	11 44.69	3.1115	— 22		1 46 8.3	—6.176	—429		98.8	3	1768
3962		7.0	11 29.69	7.3182	—1189	00	73 18 3.0	—6.156	-1.013	0.0	70.4, 72.7	13, 12	375
3966		(8.5)	12 18.47	3.1407	— 25	+ 11	3 5 2.7	—6.223	—433	— 4.4	85.0, 87.3	4	1638
3967		(8.4)	12 24.99	3.5522	— 67	— 11	20 41 32.7	—6.232	—490	+ 4.6	59.4	3	1768
3968		9.0	12 32.62	3.5956	— 73		22 23 14.8	—6.242	—496		95.7	3	1643
3970		3.5	12			— 13	22			— 1.7	B 1898		1645
3971		(8.7)	12 44.45	3.8564	—110		31 41 24.6	—6.259	—532	— 7.6	09.6	3	1540
3972		8.3	12 47.19	3.3795	— 48	+ 38	13 36 1.6	—6.262	—465	+ 5.1	72.9	3	1634
3973		5.6	12			+ 01	55			— 3.8	B 1906		1192
3974	B	7.4	12 40.26	4.6067	—251	— 46	50 22 47.2	—6.253	—636	— 4.0	80.6, 77.5	14	1420
3974	A	7.3	12 41.74	4.6067	—251	— 23	50 22 51.9	—6.255	—636	— 4.4	77.0, 74.3	16	1420
3976		(7.5)	12 55.46	6.5090	—853		69 43 17.1	—6.274	—899		91.3	4	422
3977		8.0	13 10.86	3.9368	—123		34 15 27.4	—6.295	—542	— 1.8	80.8	3	1583
3983		(9.0)	13 38.24	3.1162	— 23		1 58 59.5	—6.333	—428		95.2	3	+1645
3986		5.2	13 41.34	4.0279	—139	— 67	36 59 36.2	—6.337	—554	— 3.1	74.6, 70.8	15, 16	+1707
3990		6.8	14 5.57	3.0863	— 21	00	0 38 2.7	—6.371	—424	— 0.9	75.0, 73.2	5	1909
3991		8.7	14 1.32	4.3503	—201	— 52	45 13 47.3	—6.365	—599		88.8	3	1424
3992		7.6	14 7.88	3.3055	— 41	00	10 25 38.5	—6.374	—454	— 3.8	76.4, 75.4	7, 6	1505
3993		8.7	14 26.45	3.1673	— 28		4 17 17.1	—6.400	—435	— 2.2	75.0, 80.2	3	1667
3994½		5.2	14			— 43	20			— 3.3	B 1914		1775

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″		″			
3997		(8.1)	14 42.20	+3.6067	— 77		22 52 47.1	—6.422	—496	+ 1.5	83.7, 79.5	5, 6	1655
13132		8.0	14 45.14	5.8114	—608	s	65 11 12.0	—6.426	—800		83.1	3	572
4001		(7.7)	14 55.95	5.0078	—360	—0.75	56 48 34.5	—6.441	—689	—11.3	77.6, 80.2	6, 7	1207
4004		9.0	15 14.02	3.7895	—103	— 50	29 32 30.4	—6.466	—520	— 7.6	98.8, 82.3	2, 4	1520
4005		9.4	15 15.08	3.5915	— 76		22 18 38.3	—6.467	—493	— 3.3	89.3, 98.2	4, 3	1658
4007		(9.0)	15 38.97	3.1766	— 30		4 43 6.1	—6.500	—435		85.3	2	1676
4012		8.6	16 11.31	5.5784	—541	— 21	63 14 24.6	—6.545	—766	— 2.1	80.3	6	710
4013		8.6	16 9.59	4.0615	—151	— 01	38 3 3.7	—6.542	—557	— 2.5	81.2, 81.6	4	1752
4015		9.2	16 38.44	4.1335	—165	— 22	40 2 33.8	—6.582	—567	0.0	03.4	6	1858
4016	GB		16 42.76	3.5747	— 75	00	21 41 51.0	—6.588	—490	— 2.0	73.6, 70.5	5	1589
4016	A	8.0	16 42.75	3.5747	— 75		21 41 50.9	—6.588	—490		81.9	3	1589
4019	B	(8.7)	16 53.63	3.3164	— 44		10 56 43.4	—6.603	—454		80.6	2	1521
4019	A	7.9	54.36	3.3163	— 45		26.7	—6.604	—454		74.4, 73.9	5	1521
4021		(8.8)	17 5.57	3.7116	— 94		26 52 5.6	—6.619	—509		98.6	3	1547
4035		9.0	17 45.73	3.5354	— 71		20 10 23.5	—6.675	—483		93.5	2	1797
4038	A	6.9	18 12.30	3.5493	— 74	— 10	20 44 21.8	—6.711	—485	— 2.9	62.0, 63.6	11, 10	1798
4038	B	(7.8)	18 12.64				26.1	—6.712			69.8, 85.6	4, 3	
4040		(9.2)	18 23.58	3.4116	— 56	+ 33	15 4 46.4	—6.727	—466		61.1	4	1566
4041		9.2	18 31.25	3.5895	— 80		22 19 57.2	—6.737	—490		95.2	3	1678
4042		6.9	18 38.39	3.4909	— 66		18 23 33.2	—6.747	—477	— 1.7	75.8, 80.8	4	1610
4043		7.2	18 39.01	3.8548	—120		31 51 58.7	—6.748	—527		84.2	4	1574
4045		7.7	18 58.72	3.3941	— 55	00	14 20 54.3	—6.775	—463	— 2.2	70.3, 75.1	3, 4	1665
4047		8.1	19 6.20	3.4114	— 57		15 5 10.0	—6.785	—465	0.0	70.5	4	1571
4047		(8.5)	6.20				17.6				80.4	2	1571
4049	A	7.7	19 10.68	3.4996	— 68		18 45 49.4	—6.791	—477		71.7	4	1616
4049	B	(9.0)	19 14.99	3.4995	— 68		18 45 40.6	—6.799	—477		62.0	3	1618
4049	C	(8.5)	13.99	3.4996	— 68		45 56.8	—6.796	—477		82.2	2	
4052		5.6	19			+ 10	48			— 5.8	B 1943		1538
4054		7.7	19 42.71	4.2445	—195	— 20	43 0 11.5	—6.835	—579	— 3.2	78.2	6	1693
13134		(8.8)	20 11.86	7.1059	—1232		72 42 18.8	—6.875	—970		03.8	2	367
4056	B	(8.8)	20 10.08	3.5897	— 82	— 22	22 23 31.6	—6.873	—489	— 2.3	52.2, 82.7	2, 1	1687
4056	A	6.9	12.64	3.5896			27.2	—6.876			56.2, 66.1	5, 4	
4057		9.2	20 12.08	3.9974	—148	+ 33	36 22 35.1	—6.876	—545	— 2.9	03.0, 03.4	3	1630
4058	A	7.0	20 18.82	3.4220	— 60		15 33 56.3	—6.885	—466		81.7	2	1574
4058	B	[8.7)	18.88				57.0				83.8, 77.3	2, 3	
4059		5.3	20			— 38	21			—12.2	B 1945		1602
4062	B	(9.1)	20 25.90	4.5807	—274	— 46	50 13 42.9	—6.894	—624		86.4, 90.8	3, 2	1435
4062	A	(9.0)	27.20	4.5802		+ 26	13 18.2	—6.896			76.4, 73.6	5, 6	
4064	A	7.9	20 34.23	3.2711	— 42		9 0 10.7	—6.906	—445		76.7	4	1657
4064	B	(8.8)	35.00				12.6	—6.907			82.2	2	
4065		8.0	20 46.59	4.5800	—275	— 51	50 14 1.1	—6.923	—624	— 4.3	93.0, 88.6	7, 9	1436
4066		9.0	20 50.51	3.9704	—144	— 36	35 35 53.8	—6.928	—540	— 3.6	11.0, 13.4	4	1622
4069		8.4	20 57.26	4.5407	—266		49 29 38.2	—6.937	—618		75.2, 76.1	4	1632
4070		(7.6)	21 4.52	3.6545	— 92	00	24 54 10.5	—6.947	—497	— 6.4	91.8	7	1665
4073		7.9	21 14.29	3.9520	—142	00	35 3 24.3	—6.961	—538	— 0.7	87.6, 91.2	4, 3	1623
4074		5.3	21			— 02	7			— 4.5	B 1950		1729
4075		4.6	21			— 43	9			+ 0.8	B 1953		1660
4083		5.1	22			— 21	28			— 4.0	B 1959		1400
4084		(7.5)	22 9.18	3.3987	— 58		14 36 45.2	—7.035	—461		77.0, 77.5	3	1677
4088		8.3	22 29.77	3.3333	— 51	— 19	11 47 4.8	—7.064	—452	— 4.6	74.2	3	1594

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″		″			
4089		(8.0)	22 24.03	4.5855	—283		50 24 36.5	—7.056	—623	— 3.5	85.1, 85.5	8, 7	1441
4091		9.1	22 31.72	3.7416	—108	s	28 8 40.0	—7.066	—508		98.6, 84.1	2, 3	1403
4097		8.3	23 23.90	3.3866	— 58	—0.29	14 7 24.1	—7.138	—458	— 3.6	66.5, 62.7	5	1681
4100		7.5	23 54.98	3.1927	— 36	00	5 30 48.1	—7.180	—432	— 2.8	64.8, 65.9	5, 6	1688
4103		(9.2)	24 2.14	5.2184	—475	00	59 49 13.0	—7.190	—707	0.0	87.9	4	1091
4104		9.0	24 11.08	3.4435	— 66		16 34 17.7	—7.202	—466		73.4	2	1497
4104		(8.7)	11.46	3.4436			26.8				73.9	4	
4108		7.8	25 10.60	3.8851	— 137	— 07	33 7 33.2	—7.283	—525		74.3, 74.8	2, 3	1547
4109		6.4	25				23			+ 3.0	S 2879		1744
4120		7.7	26 19.56	3.8917	— 140		33 23 26.6	—7.376	—525		97.0, 95.2	4, 3	1550
4121		8.8	26 21.39	6.8873	—1216		71 57 4.3	—7.378	—931		95.4	3	411
4122		2.0	26			—1.13	32			—10.9	B 1979		1581
4125	med.	8.8	26 52.18	3.2813	— 48		9 33 21.7	—7.421	—441		62.6	2	1698
4126		9.0	26 59.46	3.5714	— 87	+ 40	21 53 49.8	—7.431	—481	— 3.6	98.0	3	1638
4129		6.3	27 7.84	4.2423	— 215	— 31	43 18 12.3	—7.442	—571	— 4.7	77.2, 80.2	11	1711
4130		5.3	27 12.07	3.8249	— 129	— 32	31 13 48.7	—7.448	—515	+ 2.1	64.4, 61.8	15, 13	1620
4133		(7.5)	27 25.37	3.6387	— 98	00	24 32 8.4	—7.466	—489	0.0	83.5	5	1705
4135	G. B.	7.4	27 34.08	3.3490	— 56	00	12 34 27.4	—7.477	—450	— 1.4	65.7, 72.3	5, 4	1596
4136		8.9	27 36.35	4.5977	— 306		50 53 1.3	—7.480	—619	— 8.2	91.9, 80.2	2, 3	1450
13136		8.6	27 50.06	5.9008	— 762		66 19 42.1	—7.499	—795		87.4	2	518
4137		8.7	27 50.23	3.9276	— 150	— 23	34 36 1.5	—7.499	—528	— 3.6	90.4	3	1639
4138		(9.1)	27 47.94	4.7083	— 338	— 26	52 50 23.7	—7.496	—634	— 3.2	91.1	2	1228
4142		8.8	28 29.45	3.9611	— 158	— 01	35 39 56.2	—7.552	—532	— 1.5	85.8, 83.6	4	1657
4148		7.8	28 57.56	4.0795	— 183	— 17	39 8 36.9	—7.590	—547	+ 1.0	94.0, 94.3	3	1978
4149		8.3	28 42.72	8.0685	—1982		76 4 55.6	—7.570	—1.086	+10.4	85.3	3	293
4159		(7.5)	30 7.75	4.2140	— 216	— 52	42 45 19.5	—7.685	—564	— 5.6	63.2, 72.4	6	1744
4159		(7.5)	7.91	4.2132	— 216	—0.20	44 13.8	—7.685	—564	— 2.3	71.0, 64.5	7, 6	1745
4164		5.6	30 20.43	3.9471	— 158	+ 30	35 19 34.6	—7.702	—528	+ 1.8	71.4	18, 17	1662
4165		7.9	30 23.83	3.9045	— 150	— 35	33 59 22.8	—7.707	—522		64.5	4	1646
4183		(8.5)	32 11.73	3.6992	— 114	+ 19	27 0 25.4	—7.852	—493	— 6.0	97.3, 01.2	6, 4	1440
4186		5.0	32			— 39	58			— 6.1	B 2010		+1103
4187		0.5	32			—4.64	5			—103.0	B 2008		1739
4188		8.7	33 8.15	3.1918	— 41	00	5 33 30.5	—7.927	—424	0.0	62.3, 68.8	6, 7	1741
4190		8.2	33 15.10	3.6069	— 100		23 31 56.1	—7.936	—480		87.3, 79.8	4, 5	1779
4191		7.6	33 20.56	4.0216	— 180	+ 06	37 43 1.8	—7.944	—535	+ 0.9	86.3, 87.6	4	1756
4193		5.8	33			— 07	5			— 2.9	B 2013		1742
4194		8.5	33 27.60	3.8908	— 153		33 41 54.4	—7.953	—517		83.6	2	1566
4196	B	(8.4)	33 32.24	3.5702	— 94	+ 21	22 5 17.2	—7.960	—474	— 6.7	88.2	5	1749
4196	A	8.4	33.09	3.5701	— 94		0.1	—7.961			96.2	4	
4200	A	8.8	33 56.65	3.6050	— 100		23 28 59.0	—7.992	—479		91.8	2	1782
4200	G. B.		56.64				28 59.3				86.4	2	
4202		7.0	33 59.08	5.7564	— 757		65 26 59.7	—7.996	—766	— 6.8	81.4	8	592
4202		(7.1)	59.32	5.7569			27 14.4			— 5.2	78.6	10	
4206	A	8.1	34 28.52	3.4784	— 81	+ 42	18 20 30.9	—8.035	—461	— 0.0	80.3	4	1713
4206	C	(9.2)	34 29.98	3.4784	— 81		18 20 42.1	—8.037	—461	— 5.6	93.2	3	
4208		8.8	34 43.03	3.1027	— 32	— 15	1 25 37.8	—8.054	—411		90.6, 90.6	3	1877
4211	A	8.2	34 51.95	3.2880	— 54		9 59 43.3	—8.066	—435		76.2	1	+1599
4211	G. B.		51.94			00	43.7			— 2.5	78.7	5, 5	
4212		(9.2)	34 52.37	3.5009	— 84		19 18 5.5	—8.067	—464		94.3, 75.6	2, 3	1800

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4213		(8.5)	34 50.53	+5.2944	— 573	0.00	61 11 3.3	—8.064	—704	0.0	74.9, 73.1	5	995
4215		6.8	35 24.37	5.6187	— 708	+ 15	64 21 2.0	—8.109	—746	— 3.0	85.3, 84.4	8	649
4224		7.7	36 42.21	3.8171	— 144		31 24 36.8	—8.213	—504		78.2, 90.5	3, 2	1660
4226		3.7	36			— 16	24			— 6.2	B 2029		1759
4227		7.4	36 57.21	3.1529	— 39	+ 05	3 47 1.2	—8.233	—416	— 8.8	80.7	5	1773
4232		8.0	37 33.00	3.9202	— 167	— 41	34 51 14.1	—8.280	—517	0.0	89.8, 87.3	7, 6	1669
4233		1.2	37			—4.71	28			— 5.8	B 2031		1463
4234		8.2	37 53.99	3.6733	— 117	— 24	26 17 16.2	—8.308	—484	0.0	83.0, 79.4	3, 4	1638
4235		8.3	37 54.98	3.5433	— 95		21 9 53.6	—8.310	—467		04.1	4	1677
4238		8.0	37 51.88	5.1289	— 528	+ 89	59 23 15.6	—8.306	—677	0.0	79.4, 77.0	5	1108
4244		7.5	38 44.91	3.5489	— 96	+ 33	21 25 22.9	—8.376	—467	0.0	87.5, 90.1	7	1679
4246		7.8	39 5.64	3.4507	— 81		17 18 57.4	—8.403	—453		94.4, 77.1	2, 3	1662
4249		5.3	39			+ 03	33			— 4.0	B 2049		1585
13142		9.0	39 38.11	3.5389	— 96		21 2 51.1	—8.446	—464		94.8	3	1683
4252		9.0	39 58.69	3.6573	— 118		25 46 25.5	—8.474	—480		98.0	3	1763
4253		7.9	40 0.00	3.1662	— 42		4 26 1.2	—8.475	—415	— 1.5	75.0, 85.3	3	1816
4255		7.6	40 11.86	3.7429	— 134	— 18	28 58 21.7	—8.491	—491		91.0	5	+1614
4258		(7.2)	40 41.76	3.7449	— 136	00	29 4 15.8	—8.530	—491	0.0	65.4, 69.8	7, 6	1615
4259		(8.3)	41 3.31	3.9978	— 191	00	37 26 5.2	—8.559	—523	0.0	90.4	5	1778
4260		6.2	41			— 09	23			— 1.5	B 2054		1812
4261	B	(8.5)	41 7.76	3.4801	— 87	+ 16	18 38 41.0	—8.565	—455	— 2.5	04.0, 93.9	4, 3	1744
4261	A	7.7	8.25:				40.8			— 2.4	66.1, 74.8	6, 3	
4262		8.0	41 14.54	3.7389	— 135	+ 21	28 52 56.9	—8.574	—489	+ 1.8	70.7, 72.6	5, 4	1474
4264		8.2	41 22.64	3.3674	— 70	00	13 43 34.3	—8.584	—440	— 2.5	85.3, 86.8	6	1770
4265		7.6	41 10.87	5.6903	— 790	00	65 13 3.3	—8.569	—747	0.0	93.4	5	599
4266		(7.0)	41 24.4	3.1932	— 46	— 15	5 43 4.0	—8.587	—417	— 3.1	86.2, 89.6	11, 10	1790
4275		(7.6)	42 32.02	3.0927	— 34	— 11	0 58 20.5	—8.676	—403	— 1.5	83.9	5	+1911
4280	med.	8.7	42 46.97	3.6299	— 116	00	24 50 24.6	—8.695	—473	+14.5	94.9	9	1783
4282		7.7	42 48.02	3.9974	— 195	— 13	37 31 31.0	—8.697	—521	— 0.8	92.8, 88.2	3	1781
4283	A	7.7	42 56.85	3.1466	— 41	00	3 31 57.6	—8.708	—410	— 2.0	90.4	8	1803
4283	B	(9.0)	57.79	3.1467	— 41		32 13.2	—8.710	—410		93.7	2	
4284		8.5	42 54.25	4.0523	— 209	+ 10	39 8 7.6	—8.705	—529	+ 0.4	92.2, 92.6	4	2017
4286		(7.0)	43 3.83	3.8225	— 156	— 25	31 55 41.9	—8.717	—498	— 4.1	92.2, 93.0	9, 7	1676
4297		9.1	44 28.76	3.5713	— 107		22 34 26.4	—8.829	—464		95.1, 83.4	3, 4	1797
4304	A	(8.8)	45 37.32	3.3342	— 68		12 20 17.8	—8.918	—432		83.1, 84.3	3	1698
4304	B	(9.0)	37.32	3.3343			20 38.2	—8.919	—432		80.4, 81.2	2	
4308		(9.0)	45 25.59	6.5628	—1312		71 3 29.2	—8.903	—854	— 5.4	98.7	3	432
4311		(9.1)	46 2.26	3.5353	— 102		21 9 27.3	—8.951	—458		92.4, 79.0	3, 4	1708
4311		(9.2)	3.21	3.5353	— 102		27.0	—8.952	—458		95.4, 83.7	3, 4	
4312		7.0	46 8.76	3.1497	— 42		3 42 16.5	—8.960	—407	— 2.4	75.0, 79.5	3	1827
4313		7.8	46 3.76	4.4231	— 322	— 20	48 28 19.0	—8.953	—573	— 2.7	93.9, 83.5	3	1585
4314		8.8	46 3.09	4.5945	— 377	— 61	51 50 7.6	—8.952	—596	— 1.6	94.6	2	1372
4324		8.6	46 51.20	3.6674	— 128	— 19	26 29 26.7	—9.015	—474	— 2.4	78.1, 79.1	4, 5	1673
4325		8.3	46 58.85	3.3982	— 79	00	15 16 21.1	—9.025	—439	— 5.4	67.6	3	1697
4325		(8.5)	59.34				18.2	—9.026			71.5, 55.9	1, 2	
4330		8.5	47 45.44	3.5537	— 107	00	21 59 47.5	—9.085	—458	0.0	81.5, 82.1	5	+1808
4335		(8.0)	48 29.18	3.6269	— 123	00	24 59 34.4	—9.142	—467	0.0	82.5, 79.1	8, 9	+1794
4338		9.1	48 34.86:	8.2816	— 277	— 46:	77 8 8.5	—9.150	-1.071	— 6.1	83.0	4	309
4339		8.8	48 59.91	4.5187	— 363		50 35 21.6	—9.182	—582		07.2	2	1495
4341		8.8	49 7.78	3.5572	— 110	+ 09	22 12 14.7	—9.192	—457	— 5.1	73.4, 81.0	8, 7	1813

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4346		7.0	49 45.00	+3.5348	— 106	0.00	21 17 50.8	— 9.241	—454	0.0	83.4, 77.5	7, 6	1724
4349		7.7	50 23.68	3.3575	— 75	+ 14	13 32 20.4	— 9.291	—430		62.4, 74.9	5, 3	1804
4353		7.8	50 41.15	4.3401	— 311	— 17	46 57 24.2	— 9.313	—557	— 4.8	84.8, 85.3	7	+1510
4355		6.4	50 50.22	3.1024	— 38	—1.08	1 27 33.2	— 9.325	—397	+ 0.3	80.7, 78.5	5	1959
13146		9.3	50 56.65	3.5145	— 103		20 29 26.3	— 9.333	—450	— 2.7	87.9, 81.0	3	1958
4357		8.6	51 15.72	4.9130	— 520	00	57 17 4.2	— 9.358	—630	— 8.8	77.2	6	1117
4358		9.1	51 26.46	3.4292	— 88		16 48 15.8	— 9.372	—438		69.3	2	1599
4359		6.0	51			— 05	63			— 2.1	B 2106		749
4361		(6.0)	51 51.73	3.1250	— 42	—1.06	2 33 23.0	— 9.404	—398	+ 9.2	65.6, 66.7	10	1833
4363		6.8	52 6.34	3.1954	— 51	00	5 57 33.6	— 9.423	—407	— 1.8	74.9	4	+1840
4365		8.1	52 43.86	4.7446	— 460	— 14	54 49 41.3	— 9.471	—606	— 3.5	83.3	5	1189
4366		7.5	52 9.93	6.7335	—1525	00	72 8 13.4	— 9.428	—863	— 3.2	75.3	6	394
4369	med.	7.7	52 45.40	3.3666	— 78	+ 19	14 1 38.0	— 9.473	—429	— 8.2	79.6	2	1801
4369			45.38				39.0						
4375		(7.7)	53 15.94	6.0966	—1129	—4.07	68 44 10.6	— 9.512	—779	—24.4	93.0	5	518
4377		6.4	53			— 33	23			— 1.0	S 3127		1866
4382		8.6	53 59.31	3.4985	— 103		19 56 19.0	— 9.568	—444		87.6, 66.8	2, 3	1900
4383		6.2	54			— 09	25			+ 1.2	B 2121		1816
4384		7.7	54 11.49	3.4378	— 92	— 52	17 17 32.3	— 9.588	—436	— 4.2	78.8	4	1733
4387		(9.2)	54 45.74	3.4393	— 93		17 22 7.1	— 9.628	—436		80.3	2	1737
4388		7.5	54 47.00	4.7529	— 473		55 5 38.2	— 9.629	—604		67.4, 72.4	5	1242
4396		7.5	55 36.41	3.3381	— 76	— 92	12 47 51.4	— 9.692	—422	+ 2.3	81.8, 83.8	3	1748
4398		(7.0)	55 33.88	5.0673	— 610	— 36	59 35 55.0	— 9.690	—643	0.0	90.8, 91.0	6	1136
4399		7.0	55 42.48	3.6568	— 138		26 36 52.2	— 9.700	—463		04.0, 70.9	4, 3	1707
4400		7.7	55 42.84:	4.3554	— 332	— 63:	47 38 19.4	— 9.701	—552	— 2.0	98.0	3	1522
4402		8.3	55 50.42	3.1643	— 49	+ 40	4 30 5.1	— 9.711	—400	—11.1	78.3, 76.8	5	1882
4405		7.8	55 57.92	3.1422	— 45		3 25 23.3	— 9.720	—397		90.2	3	1876
4406		6.6	56 9.74	3.8423	— 183		33 22 44.2	— 9.735	—486		71.2, 70.5	5, 4	1636
13148		7.6	56 24.80	3.3639	— 81		14 1 2.5	— 9.754	—424		83.1, 83.1	2	1811
4408		6.7	56 34.01	3.3318	— 75		12 31 51.5	— 9.766	—420		78.8, 80.7	2	1754
4414		7.9	57 26.19	3.3337	— 76	+ 97	12 38 40.4	— 9.832	—419	—10.1	90.2, 92.0	5	1759
4418	B	(8.5)	57 48.85	3.3286	— 75		12 25 10.0	— 9.861	—418		83.5	1	1760
4418	A	8.9	49.41	3.3287	— 75	+ 11	25 28.9	— 9.862	—418	— 2.6	67.8	3	
4419		7.9	57 47.22	4.1331	— 267		42 20 22.2	— 9.859	—521	— 2.2	76.9, 66.8	5, 4	1808
4421		6.2	57			+ 07	27			— 2.0	S 3164		1536
4425		7.8	58 39.21	3.2470	— 62	+ 12	8 33 12.6	— 9.925	—407	— 2.8	68.4, 66.4	5	1963
4426		7.8	58 45.29	3.1980	— 55	00	6 10 52.4	— 9.933	—401	— 3.3	69.8, 74.9	6, 8	1869
4426		(9.0)	45.56	3.1980	— 55		10 53.3	— 9.933	—401		79.8, 81.1	3	1869
4429		8.7	58 57.07	4.4371	— 372		49 37 2.8	— 9.947	—558		74.2	2	1705
4437		8.0	59 42.34	3.5228	— 114		21 14 55.4	—10.005	—441		95.5	3	1763
4438		(7.7)	59 47.14	3.7937	— 177		31 54 36.2	—10.011	—475		01.0, 05.5	4, 3	1735
4444		8.8	0 39.89	3.1067	— 42	— 15	1 42 27.5	—10.078	—387	— 9.6	82.8, 84.5	3	1997
13152		9.1	0 56.00	3.9617	— 224	— 61	37 35 46.4	—10.098	—495	— 7.4	00.8, 01.7	3	1827
4447		(6.8)	1			— 09	27			— 3.4	B 2149		1544
13153		8.7	1 8.53	3.9721	— 228	— 33	37 56 9.0	—10.114	—496	— 7.3	03.2, 03.5	3	1828
4448		(8.7)	1 9.84	3.9818	— 231	— 07	38 14 5.8	—10.115	—497	— 1.4	01.2, 02.0	3	1870
4451	B	(8.7)	1 35.25	3.7571	— 171		30 42 17.2	—10.147	—468		88.6	2	1651
4451	A	8.5	1 35.83	3.7572	— 171	00	30 42 32.8	—10.148	—468	0.0	77.0	5	1651
4452	A	6.7	1 35.42	3.8093	— 184		32 35 2.0	—10.147	—475		83.2	2	1690
4452	G. B.		1 35.39	3.8093	— 184		32 36 2.5	—10.147	—475		72.1, 65.5	4	1690

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4454		(6.5)	2 3.10	+3.9038	— 210	+1.82	35 49 38.4	—10.182	—486	—24.5	89.2, 86.7	10	1767
13154		9.0	3 14.42	3.9854	— 236	— 19	38 29 30.4	—10.272	—495	— 3.6	98.8, 99.2	4	1876
4463		9.3	3 34.23	3.4762	— 108		19 23 54.4	—10.297	—431		88.0	5	1944
4467		8.8	3 58.29	3.1180	— 45	+ 81	2 17 3.3	—10.327	—385	+ 4.1	84.8	3	1892
4468		9.4	4 1.54	4.6287	— 466	— 75	53 38 15.7	—10.331	—574		88.3	2	1223
4474	A	(8.0)	4 47.83	3.1051	— 43	— 29	1 38 45.6	—10.389	—383	— 2.2	80.2	4	2017
4474	B	(9.0)	48.74	3.1049		— 45	14.0	—10.390		0.0	77.1, 75.0	4	
4475		8.9	4 50.76	3.7547	— 175	— 16	30 49 52.5	—10.392	—464	— 4.0	85.2	4	1660
13155		7.5	4 52.09	3.3535	— 85	—1.10	13 49 5.5	—10.394	—414	— 9.0	79.9, 80.6	4	1859
4476		8.5	4 59.68	3.7299	— 169	00	29 54 46.3	—10.403	—461	0.0	67.2	4	1713
4477		5.6	5			+ 46	18			—14.0	B 2168		1867
4481		6.4	5			— 21	60			+ 0.8	B 2178		1119
4486		7.6	6 4.55	3.2722	— 71	— 16	9 57 4.4	—10.484	—402	— 2.9	71.8, 70.7	5, 6	+1752
4488		7.6	6 14.68	3.6819	— 158		28 9 10.6	—10.497	—453		88.1, 78.6	4, 5	1570
4489		6.7	6 12.87	4.1500	— 295	— 20	43 24 41.5	—10.494	—511	— 4.4	83.1, 88.1	6, 7	1783
4491		8.5	6 25.32	3.6651	— 154		27 30 13.9	—10.510	—451		86.4, 85.9	4	1563
4492		7.3	6 42.57	3.2980	— 76	00	11 13 26.1	—10.531	—405	— 8.7	77.0, 72.0	9, 10	1787
4493		(8.6)	6 35.96	4.4859	— 419	— 46	51 9 48.7	—10.523	—552		01.7	3	1399
13156		8.3	6 40.02	3.9257	— 225	+ 20	36 52 21.1	—10.528	—483	— 2.1	12.9, 94.8	4, 5	1769
4494		7.8	6 45.68	3.2883	— 74		10 45 19.1	—10.535	—403	+ 4.1	84.4	4	1755
4495		8.9	6 43.52	3.8268	— 198	+ 78	33 33 15.8	—10.532	—471	+ 3.1	00.0	3	1660
4496		8.4	6 44.87	3.3986	— 95		16 0 26.5	—10.534	—417		67.1, 66.9	3	1667
4497		(8.5)	6 47.23	4.4351	— 400		50 8 57.8	—10.537	—546		62.3, 56.9	3, 4	1524
4497		8.4	47.34	4.4350	— 400		49.6				70.6	2	
4499		6.4	7			— 07	18			+ 3.0	S 3228		1882
4500		(8.0)	7 6.59	3.6649	— 155	00	27 32 22.2	—10.561	—449	0.0	79.3, 77.1	7, 6	1567
4501		6.2	6 51.33	6.7445	—1774	00	72 47 29.8	—10.542	—832	0.0	71.7, 72.9	19, 20	409
4505		(6.5)	7 4.59	7.3756	—2320	+1.07	75 12 16.4	—10.559	—910	+ 4.9	81.0, 82.3	4	334
4508		8.7	7 37.60	3.9867	— 246	+ 29	38 51 33.3	—10.599	—489	— 0.6	85.0, 85.3	4	1889
4513		9.3	7 58.99	3.2226	— 63		7 33 21.8	—10.626	—394	+ 4.3	84.5	3	1945
4516		8.6	8 37.64	3.1899	— 58	— 09	5 56 12.7	—10.674	—389	0.0	76.7, 76.7	4	1918
4517		9.2	8 29.79	5.0304	— 673	— 25	59 57 44.8	—10.664	—617	— 4.5	164, S 7		+1127
4519		7.4	8 46.59	3.4635	— 110	00	19 4 28.2	—10.685	—423	— 1.8	81.1, 81.2	6, 5	1963
4524		7.1	9 17.12	3.1350	— 49	— 18	3 10 54.7	—10.722	—382	0.0	80.0, 78.7	10	1933
4526	GB	9.0	9 25.84	4.8005	— 567	00	56 50 11.3	—10.733	—587	0.0	70.4, 75.5	7	1288
4527		8.8	9 37.56	3.8111	— 198		33 12 31.0	—10.748	—465		95.8	2	1670
4529		3.8	10			— 35	9			— 5.4	B 2195		1917
4533		8.1	10 15.75	3.7551	— 184	— 18	31 13 2.6	—10.795	—457	0.0	60.0, 65.5	5, 4	1779
4547		9.0	11 16.41	3.2073	— 62	— 18	6 51 15.1	—10.869	—388	— 1.8	77.8	4	1922
4548		(8.5)	11 14.41	3.4811	— 117		19 59 47.0	—10.867	—422		93.2, 88.8	4, 3	+2045
4549		8.6	11 3.68	5.9747	—1258	00	68 49 32.9	—10.853	—728	0.0	82.6	5	531
4550		(7.5)	11 30.15	3.8712	— 219	— 28	35 26 2.0	—10.886	—469	— 2.6	87.0, 90.4	5, 4	1802
4552		8.2	12 4.46	4.3090	— 370		47 48 34.2	—10.928	—522	— 3.2	85.2, 77.0	3	1565
13159		9.0	13 32.44	3.9029	— 232	— 17	36 39 7.4	—11.035	—471	— 3.0	11.7, 11.8	3	1798
4563		(8.3)	13 39.38	5.4173	— 924		64 33 3.0	—11.044	—655		88.6	2	681
4565		(8.0)	13 49.53	4.8443	— 612	—1.14	57 48 43.3	—11.056	—585	+ 1.9	66.0, 64.6	7, 6	1137
4572		9.0	15 15.18	3.7247	— 183		30 25 47.3	—11.160	—447		96.8	2	1700
4573		8.8	15 16.09	3.7379	— 187		30 56 7.0	—11.161	—448		02.6	2	1701
4576		7.5	15			— 60	45			—17.5	C 1454		1576
4577		9.1	15 49.18	3.4850	— 122		20 24 58.6	—11.201	—417		95.3, 92.9	2, 3	2070

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s			° ′ ″	″		″			
4578		9.1	16 4.51	+3.5559	— 139	s	23 34 45.1	—11.220	—425	— 2.5	78.2	4	1944
4580		8.4	16 16.31	3.2285	— 68	0.00	8 1 48.2	—11.234	—385	— 4.2	66.5, 64.0	4, 3	2042
4581		6.2	16			+ 07	42			— 0.7	B 2220		1859
4581		(8.6)	16 16.08	4.0830	— 299	— 75	42 23 4.8	—11.233	—488	— 7.2	70.8, 75.0	8	1860
13164		(7.8)	17 14.99	3.9286	— 248	— 44	37 47 33.2	—11.305	—468	— 6.8	10.7, 13.0	4	1856
4588		(7.4)	17 34.48	3.4859	— 124	00	20 33 19.3	—11.328	—415	0.0	83.9, 83.3	8	2079
4591		8.4	17 51.82	3.5805	— 148		24 45 12.7	—11.349	—426	— 1.7	97.9, 87.6	6	1921
4592		(8.6)	17 59.80	3.7466	— 194		31 28 1.2	—11.359	—445		91.0	2	1810
4593		6.9	18 13.92	3.2630	— 75	+ 16	9 49 44.2	—11.376	—387	0.0	73.7, 81.9	4, 6	1960
4594		8.3	18 11.23	3.9311	— 251	— 07	37 57 2.6	—11.372	—467	— 2.8	88.2, 82.0	4	+1908
4597		5.8	18			— 23	28			—13.1	B 2232		1602
4598		9.0	19 8.31	3.1946	— 63		6 21 26.6	—11.440	—378		77.9	2	1951
4600		5.2	19			— 29	7			— 0.5	B 2234		2053
4601		6.3	19			— 05	27			— 0.8	B 2240–41		1612
4602		7.1	19			— 29	24			— 8.7	B 2238/39		+1920
4609		3.5	20			—1.67	61			—11.4	B 2247		1054
4610		7.9	20 3.26	3.5497	— 142	— 08	23 33 39.8	—11.506	—419	— 2.4	90.5	11	1960
4611		8.7	20 3.75	3.6538	— 170	00	27 58 14.6	—11.507	—432	0.0	79.8	4	1606
4614		(8.5)	20 15.61	3.5115	— 133	+ 19	21 52 18.7	—11.521	—414	— 7.5	83.0, 91.7	6, 5	1842
4615		7.6	20 14.42	3.8087	— 216		33 56 23.0	—11.520	—450		71.9	4	+1834
4616		8.8	20 17.52	3.8520	— 229	— 17	35 28 30.7	—11.523	—455	— 1.0	10.8, 13.4	4	1828
4618		(8.5)	20 19.33	4.4962	— 479	—1.04	52 27 49.6	—11.526	—532	+ 2.4	79.9, 79.3	3	1313
4620		8.6	20 32.61	4.4524	— 460		51 36 49.9	—11.542	—526		73.8	4	1427
4624	B	(9.4)	21 19.94	3.4110	— 109		17 15 20.8	—11.598	—401		95.0	3	1852
4624	A	(8.9)	20.54	12		+ 12	15 49.9	99		0.0	83.9, 79.0	7, 9	
4632		8.3	22 4.51	3.7467	— 200	00	31 47 22.6	—11.651	—440	0.0	83.9	4	1819
4635		(8.6)	22 13.00	3.4863	— 128	— 48	20 50 34.1	—11.661	—409		79.5, 83.5	4	2095
4636		(7.0)	22			— 35	26			— 0.8	H		1789
4638		6.3	22 12.05	7.1738	—2463	— 56	75 8 48.0	—11.660	—846	0.0	82.7, 84.2	8, 7	342
4640		(9.1)	23 11.33	3.5335	— 141		23 2 37.4	—11.730	—413		91.4	2	1966
4641		(9.1)	23 11.94	3.8299	— 228		34 56 27.4	—11.731	—448		01.7	2	1833
4643		9.1	23 19.98	3.2405	— 74	— 20	8 49 20.3	—11.740	—378	— 2.2	77.0	4	2067
4645	A	7.7	23 27.11	4.6652	— 574	— 41	55 46 34.9	—11.749	—546	— 8.7	62.5, 62.4	7	1284
4645	B	(8.3)	23 29.59	4.6651	— 574		43.2	—11.752	—546		75.1	2	1284
4647		7.3	23 36.90	3.8414	— 232	—2.5	35 23 0.8	—11.760	—449	+ 0.3	88.4, 89.4	4	1834
4648		8.5	23 37.90	3.7580	— 206	— 11	32 20 41.2	—11.762	—439	— 3.4	82.4	5	1746
4651		(8.0)	24 3.54	3.7899	— 217	— 34	33 34 12.6	—11.792	—442	— 3.8	76.3	3	1705
4652		(8.5)	23 54.76	5.5838	—1127	00	66 41 41.8	—11.781	—654	— 3.7	73.7	5	560
4654		9.0	24 22.41	3.9135	— 258	+ 12	37 54 35.6	—11.814	—456	— 2.4	92.4, 92.8	4	1873
4655		5.6	24			— 37	18			— 6.9	B 2265		1963
4656		7.8	24 22.86	4.7580	— 626	— 14	57 20 46.1	—11.815	—556	— 2.8	75.6, 81.4	5	1152
4657		8.7	24 45.52	3.7697	— 212		32 52 42.5	—11.841	—439	— 3.7	94.6, 03.1	2, 3	1752
4660		7.6	25 17.82	3.7948	— 221		33 51 11.4	—11.879	—441		63.9	3	1710
4662		(8.0)	25 50.53	3.2408	— 75		8 54 38.5	—11.918	—375		82.8	5	2073
4663		(7.5)	25 59.50	3.1878	— 64	— 19	6 8 19.5	—11.928	—369	+ 2.1	74.3, 76.2	4, 5	1983
4665		9.1	27 14.26	4.2426	— 393	+ 36	47 33 11.7	—12.016	—490	— 4.1	63.6, 63.0	3	1594
4666		7.6	27 25.51	3.1098	— 50		2 0 39.3	—12.029	—358	— 3.2	75.0, 64.9	4	2006
4669		9.0	27 38.11	3.8218	— 234	— 04	35 2 8.1	—12.044	—441	+ 0.1	94.3, 94.5	3	1843
13167		9.0	28 36.03	3.3591	— 102		15 3 55.4	—12.111	—385		69.7	2	1850
4675		9.1	29 7.12	3.2663	— 82	00	10 20 20.6	—12.147	—374	— 3.8	68.1, 66.6	7	1831

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″			″			
4677		6.0	29	s		—0.84	7	″		—15.0	B 2285		1997
4678		(8.0)	29 14.10	+3.3415	— 99	00	14 12 27.8	—12.155	—382	0.0	73.3, 76.8	7, 6	1929
4679		8.7	29 17.62	4.0375	— 316	— 48	42 14 9.2	—12.159	—463	— 9.3	60.8, 72.2	4, 5	1903
4682		8.6	29 35.34	3.5381	— 149	— 69	23 40 56.0	—12.180	—405	—11.5	86.3, 87.0	6, 7	1978
4689			30			— 21	19			— 2.7	H		2133
4692		(8.2)	30 40.85	3.8112	— 236		34 55 22.6	—12.256	—435		98.6	4	1874
4693		9.3	31 4.36	4.4362	— 496	— 38	52 13 46.2	—12.283	—506	— 5.2	87.7, 87.0	4	1327
4693		9.3	4.82	58	— 495	— 47	13 24.9	—12.283	—506	— 4.4	88.8	3	1327
4701			32			— 22	20			— 1.2	H		2143
4704		9.0	32 43.30	3.8237	— 244	— 20	35 34 0.4	—12.396	—433	— 1.5	12.7, 12.9	4	1856
4705		6.9	32			— 06	19			— 2.9	H		2150
4709		7.8	33 4.60	3.1865	— 66	+1.22	6 12 48.8	—12.421	—359	—32.6	66.0, 72.1	11	2007
4710		6.4	33			— 25	20			— 2.2	B 2310		2166
4711		6.3	33			— 22	19			— 1.8	B 2311		+2171
4713		6.7	33			— 12	20			— 1.2	B 2313		2172
4715		6.6	34			— 24	20			+ 2.7	H		2178
4717		8.6	34 8.71	3.4468	— 129	— 29	19 42 12.2	—12.494	—388		84.8, 87.8	4	2078
4718		8.4	34 7.19	4.3075	— 446		49 44 48.3	—12.492	—486		65.8	3	1758
4721		8.1	34 36.62	3.5424	— 156	00	24 14 31.2	—12.526	—398	0.0	85.7	7	1976
4723	B	(7.4)	34 33.52	4.2867	— 438	— 87	49 18 39.9	—12.523	—483	— 3.5	64.9, 78.0	7	1759
4723	A	6.9	34 34.01	4.2867	— 438	— 75	49 18 30.6	—12.523	—483	— 6.1	71.4, 70.7	7	1759
4730		(7.7)	35 4.50	3.9240	— 286	+ 36	39 15 13.4	—12.558	—441	+ 2.4	96.4, 94.8	3	2143
4731		8.5	35 15.39	3.5917	— 172	— 51	26 30 5.9	—12.570	—403	— 2.2	93.0	2	1832
4733		(8.5)	35 30.14	5.3995	—1109	00	65 54 15.5	—12.587	—608	0.0	82.3	4	658
4736		(8.0)	35 53.64	6.3635	—1929	00	72 28 24.1	—12.613	—716	0.0	80.5, 83.7	5	429
4741	A	(8.0)	36 53.53	3.6441	— 190	— 31	28 54 11.2	—12.681	—406	0.0	85.3	6	1640
4741	B	(9.2)	55.63				19.4	—12.683			00.6	2	
4742		8.6	36 57.47	3.3318	— 101	— 15	14 4 21.4	—12.686	—371	— 5.0	70.1, 70.6	4	1963
4743		8.2	36			—2.40	42			—64.9	B 2333		1922
4743		(9.0)	36 56.15	4.0097	— 324	00	42 9 14.5	—12.684	—447	0.0	75.3, 76.8	12, 11	1923
4744		9.1	37 4.49	4.7382	— 686	—1.05	58 8 57.4	—12.694	—530	+ 5.0	16.8, S 7		1148
4747		4.2	37			— 12	18			—23.9	B 2336		2027
4752		9.0	38 21.92	3.6542	— 196		29 27 37.0	—12.781	—405		03.3	2	1821
4753		8.7	38 30.33	3.9043	— 286	— 80	38 56 27.8	—12.790	—433	— 6.4	01.1, 96.6	4	+2152
4758		9.0	38 44.30	3.5690	— 169	— 90	25 46 16.4	—12.806	—395		81.4	3	1984
4761		(9.1)	39 4.32	3.4403	— 131	00	19 42 21.4	—12.828	—380	0.0	72.1	4	2100
4763		4.2	39	3.6468	— 194	— 15	29	—12.832	—403	— 5.0	B 2348		1824
4767		(8.5)	39 36.48	3.5993	— 179		27 11 55.6	—12.864	—397		95.0	2	1667
4770		(7.3)	39 54.15	3.0919	— 49	— 16	1 6 6.9	—12.884	—340		85.0, 84.4	7	2163
4771		3.5	40			—1.27	6			— 5.4	B 2354		2036
4774	B	(8.1)	40 21.56	3.2826	— 91		11 37 9.8	—12.915	—361	— 2.9	85.1, 83.9	2, 3	1913
4774	A	7.6	21.66	25		— 08	36 57.2			— 3.4	62.9, 63.3	4	
4776		7.9	40 24.99	3.7898	— 246	— 21	35 3 28.2	—12.919	—417	— 6.0	78.5, 78.7	5	1871
4777		8.6	40 34.36	4.6261	— 641	— 32	56 39 59.1	—12.929	—510	— 1.4	72.9	5	1337
4778		7.2	40 56.18	3.8930	— 287	— 02	38 48 14.3	—12.953	—428	— 0.2	76.4, 79.2	8	1961
4779		(7.7)	41 2.23	3.4009	— 122		17 51 12.5	—12.960	—373		96.9	7	1941
4780		9.5	41 3.25	3.4463	— 135		20 8 0.5	—12.961	—378		89.4, 92.8	4	2219
4782		(7.8)	41 10.97	3.0808	— 47	+1.05	0 28 43.2	—12.970	—337	— 9.2	72.8, 73.3	6	2393
4785		7.4	41 42.14	3.1263	— 56	— 25	3 2 25.2	—13.004	—341	— 3.0	80.0, 79.0	7,8	2056
4786		4.4	41			— 10	6			— 3.7	B 2361		2040

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4787		7.6	41 52.45	3.0902	— 49		1 0 52.6	—13.016	—337	— 1.8	75.0, 83.0	4	2173
4788		7.6	41 44.27	4.7001	— 690	—0.25	57 59 21.4	—13.007	—516	0.0	71.9	9	+1153
4789		8.5	41 50.73	3.9273	— 302	+ 64	40 3 4.2	—13.014	—430	— 1.7	87.8, 86.2	7	2111
4790		8.3	41 51.86	4.2762	— 459	00	49 48 25.5	—13.015	—469	+ 5.1	77.5, 79.2	7, 6	1776
4795		7.6	42 45.24	3.2387	— 81	— 40	9 19 34.0	—13.074	—352		88.9, 91.1	3, 2	2063
4797		(8.8)	42 52.70	3.5456	— 166	— 33	25 2 38.6	—13.082	—386	— 2.4	94.1	4	1997
4798	med.	6.7	42 53.66	3.7958	— 253	—1.80	35 31 49.6	—13.083	—414	+ 5.0	82.9, 89.6	7	1878
4799		9.3	42 56.54	3.4080	— 125		18 20 12.6	—13.087	—371		81.2	2	2050
4800		7.2	42 59.27	3.3492	— 110	— 11	15 17 34.6	—13.090	—364		72.6, 86.2	3	1912
4802		9.0	42 59.85	3.7751	— 245		34 45 34.2	—13.090	—412		01.6	2	1903
4804		8.5	43 9.49	3.5143	— 157	— 41	23 35 37.4	—13.101	—382		81.3, 88.2	5, 4	2004
4808		9.1	43 21.87	3.7010	— 219		31 52 0.8	—13.115	—403		96.9	3	1891
4815	A	8.6	43 35.60	6.0537	—1755	-28.01	71 16 32.6	—13.130	—662	—36.7	81.5	15	482
4815	B	(7.6)	36.30	6.0537	—1755	-27.57	16 37.1	—13.131	—662	—40.0	C 1541		482a
4818	s	(9.4)	44 9.09	3.4665	— 144		21 21 18.3	—13.167	—376		85.5	4	1925
4819	A	(7.5)	44 36.02	3.5672	— 175	— 09	26 11 10.5	—13.196	—386	— 2.9	81.1, 82.2	6, 5	1855
4819	B	(8.5)	33.78	3.5675	— 175	— 53	11 39.1	—13.194	—386	0.0	83.9, 79.8	5, 6	1854
4820		8.0	44 30.94	3.2282	— 80		8 48 14.2	—13.191	—349		86.5, 88.4	4, 5	2132
4822		5.8	44 51.05	3.7240	— 230	00	32 56 27.3	—13.213	—403	0.0	68.7, 69.4	20	1770
4823		6.3	44	3.6232	— 195	— 12	28	—13.220	—391	— 1.5	B 2378		1659
4825		(9.0)	45 1.75	5.2721	—1104		65 26 42.7	—13.225	—572		89.0	2	671
4826	med.	9.0	45 13.48	3.6272	— 196		28 55 29.6	—13.238	—392		01.3, 01.6	3	+1869
4829		7.3	45 29.17	3.1588	— 64	— 15	4 56 1.9	—13.255	—340	— 2.0	69.4, 73.1	8	+2073
4835	A	7.8	46 22.86	4.0399	— 362	— 48	44 3 41.5	—13.313	—435	—18.1	66.9, (C 1551)	6	1798
4835	B	(8.5)	22.85	4.0399	— 362		43.2	—13.313	—435		91.5	2	
4839	p	5.6	46			+ 31	31			— 2.6	B 2384		1907
4841	A	7.5	47 15.33	3.2281	— 81	00	8 53 33.3	—13.371	—345	+ 2.7	87.4, 80.1	5	2138
4841	B	(7.9)	15.89	3.2281	— 81	— 62	26.0			0.0	71.4	4	
4844		6.7	47 30.44	3.5726	— 181	+ 36	26 41 12.0	—13.387	—382	—45.0	C 1557		1865
4846	G. B.	(8.8)	47 45.26	4.0377	— 365		44 9 8.2	—13.403	—432	— 1.7:	62.6, 77.8	3, 4	1804
4846	A	8.6	45.35:	4.0377	— 365	+ 19:	7.7	—13.403	—432		05.2	2	1804
4851		7.1	48 31.94	5.0968	—1003	— 49	63 54 29.0	—13.454	—546	— 3.0	83.2	5	810
4855		(8.4)	48 46.34	4.2268	— 460		49 22 23.4	—13.469	—451		66.9	2	1787
4860		7.8	48 40.38			—2.07	81 31 52.4			— 4.2	76.7, 76.3	7	278
13171		8.0	49 5.31	3.8374	— 282	— 16	37 43 16.0	—13.490	—408	— 2.6	03.3, 07.3	3	1929
4861		(9.0)	49 33.63	3.7228	— 237	00	33 22 38.5	—13.520	—395	— 1.9	76.3, 77.0	7, 6	1787
4863		(8.5)	50 12.02	4.4507	— 588		54 27 12.6	—13.561	—472	— 3.4	70.2, 71.5	5, 4	1265
4864		6.2	50 22.83	+3.6569	— 214	+0.36	30 42 43.3	—13.573	—387	+ 2.7	66.0, 62.1	17, 19	1795
4866		3.1	50			—4.38	48			—24.9	B 2404		1707
4869		8.6	51 27.53	3.7694	— 259	+ 24	35 25 42.5	—13.642	—397	— 0.4	81.8, 82.1	4	1912
4870		4.3	51			+ 25	12			— 3.9	B 2407		1948
13173		8.2	51 51.14	3.3291	— 109	— 48	14 42 42.7	—13.668	—349		80.5, 80.2	3	2007
4874		5.5	51 51.85	3.7052	— 235	— 42	32 54 9.3	—13.668	—390	— 2.5	64.0, 59.2	18	1821
4876		8.7	52 49.28	3.7028	— 235		32 54 13.8	—13.730	—388		73.1, 71.2	2, 3	1826
4879		8.1	53 15.50	3.4842	— 158	+ 39	22 57 13.8	—13.757	—364		87.4	3	+2029
4880		8.3	53 17.91	3.4894	— 159	00	23 12 50.8	—13.760	—364	— 6.9	70.2, 76.0	6, 5	2030
13174		9.3	53 18.37	3.3207	— 108		14 19 47.1	—13.760	—346		74.6, 79.6	4	2012
4883		5.8	53 43.98	3.6964	— 234	00	32 44 20.9	—13.788	—386	0.0	67.3, 72.3	23, 21	1829
4884		(8.6)	53 48.96:	3.1404	— 61	— 21:	4 0 58.6:	—13.793	—326	+ 1.6:	80.1	4	2098
4890	p=B	(8.8)	54 21.25	3.3456	— 116	— 82	15 45 45.9	—13.827	—348	—36.8	90.6	4	1957

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4890	s, A	8.6	54 21.34	+3.3456	— 116	—0.81	15 45 51.4	—13.827	—348	—37.1	90.7	5	1957
4891		6.0	54			— 44	28			— 8.8	B 2419		1674
4893		8.9	54 32.84	3.5588	— 184	+ 29	26 41 33.7	—13.839	—369	— 2.9	78.4	4	1885
4896	G. B.	9.1	54 42.98	3.1269	— 58	— 40	3 13 57.2	—13.850	—324		84.8, 75.0	3	2117
4899		9.0	54 53.79	4.2049	— 471		49 32 8.9	—13.861	—437		93.3	2	1798
13175		8.5	55 7.04	3.3325	— 112	— 23	15 5 17.9	—13.875	—345	— 1.9	84.9	5	1962
4901		7.0	55 28.66	3.1255	— 58	00	3 9 38.7	—13.898	—323	0.0	74.5	7	2124
4905		7.8	56 25.29	3.0873	— 49	00	0 53 58.5	—13.957	—317	0.0	72.2, 72.3	8, 9	2451
4907		9.3	57 5.53	3.8764	— 316	+ 50	40 1 56.5	—13.999	—398	0.0	05.1	5	2147
4909		8.8	57 3.80	5.1713	—1137	00	65 28 56.5	—13.998	—534	0.0	74.0	4	688
4913		(9.0)	57 22.12	3.3248	— 111		14 47 46.6	—14.017	—341		69.9	2	2022
4916		8.6	57 50.64	4.2559	— 510	+ 23	51 7 30.6	—14.046	—437	— 3.9	94.8	3	1482
4919		8.7	58 10.04	3.6051	— 206	— 81	29 12 42.4	—14.067	—368		92.8	2	1865
4923		4.9	59			— 09	67			— 7.0	B 2441		577
4924		(8.5)	59 30.67	4.1181	— 442		47 49 43.2	—14.150	—419	— 1.3	66.2	3	1641
4925		8.7	59 37.04	3.6445			31 8 32.5	—14.157	—370		98.5	2	1933
4926		9.0	59 43.51	4.0414	— 402	+ 72	45 40 37.9	—14.163	—411		80.0	2	1682
4928	B	(8.3)	0 7.50	3.1270	— 09	— 44	3 18 0.3	—14.188	—316	+ 3.4	92.4, 93.0	7	2142
4928	A	7.9	8.27			— 44	18 59.8	—14.189	—316	+ 3.0	69.9, 69.5	4	
4929		6.3	0			—1.17	23			0.0	B 2442		2048
4930		4.7	1			+1.55	64			— 6.9	B 2446		723
4933	A	9.2	0 16.72	8.6090	—5781		80 19 20.0	—14.198	—881	— 3.3	98.9	4	284
4933	G. B.		16.98	8.6090	—5781		19.3	—14.198	—881		88.7	2	284
4936		(8.3)	0 59.32	3.5735	— 198	— 47	28 2 6.1	—14.242	—361	+ 7.7	82.4, 83.1	5	1697
4939	A	8.1	1 23.52	4.3141	— 559		52 53 23.8	—14.267	—436	— 1.2	53.5	3	1371
4939	G. B.		23.73	4.3141	— 559		52 53 24.1	—14.267	—436		78.2	2	1371
13179		7.4	1 24.21	3.2797	— 100	— 57	12 27 12.5	—14.267	—330	— 8.0	82.0, 78.8	5	1973
4944		8.9	2 3.82	5.7162	—1694	00	70 29 21.6	—14.308	—578	0.0	84.8	6	555
4945	p	8.5	2 18.39	3.3361	— 118		15 44 44.3	—14.322	—334		65.7	4	1986
13180		8.3	2 39.05	3.3028	— 108	— 27	13 51 43.4	—14.344	—330		72.3, 67.1	3, 2	2048
4948		(8.5)	2 41.00	4.8632	— 941	—1.76	62 27 4.7	—14.346	—490	— 4.8	83.8, 81.3	5, 6	1053
4949	A	7.7	2 47.89	4.8420	— 926	00	62 11 2.9	—14.353	—487	0.0	80.3, 82.8	8, 10	1054
4949	B	7.7	49.45	4.8423	— 926	00	25.1	—14.354	—487	0.0	70.4	8	1055
4950		(9.0)	2 19.22		00	— 28	81 54 8.6			— 4.3	81.9, 82.9	7	289
4951		7.7	3 0.65	3.1284	— 60	00	3 26 52.2	—14.366	—312	0.0	74.4, 76.4	11, 10	2154
4961		(9.0)	4 26.80	3.2205	— 84	— 29	9 5 22.2	—14.453	—319	— 5.8	70.8	3	2130
4962		5.2	4			— 02	61			— 3.2	B 2463		+1058
4966		7.0	5 3.95	3.0851	— 49		0 48 6.1	—14.490	—305	— 3.8	75.0, 98.0	5	2477
4967		9.0	5 12.59	3.9288	— 362		42 50 31.5	—14.499	—390	— 3.1	62.3	3	1975
4968		7.5	5 11.98	4.0803	— 441	+ 23	47 30 8.7	—14.498	—405	0.0	74.3, 80.3	10	1650
4969	A	7.6	5 41.90	3.3546	— 126	00	17 2 12.3	—14.529	—331	0.0	67.7	4	2032
4969	G. B.		41.87	3.3546	— 126	00	12.8	—14.529	—331	0.0	64.4, 63.7	5, 6	2032
4972		8.1	5 50.79	4.3042	— 573	—17.62	53 14 12.4	—14.538	—426	—60.0	74.6, 73.8	22, 21	1320
4972		8.1	52.60	4.3042	— 573	—17.21	13 23.0	—14.539	—426	—69.1	73.2, 71.6	16	1321
4975		(8.8)	6 15.65	3.5399	— 192	— 44	26 57 41.2	—14.562	—349	+ 3.8	86.8	3	+1727
4978		(8.4)	6 41.14	3.5335	— 190	— 61	26 41 29.0	—14.588	—347	— 7.0	72.3	5	1914
4980		9.0	6 52.44	3.2614	— 97		11 39 35.4	—14.599	—320	— 3.2	97.9	2	1998
4983		(9.0)	7 28.91	3.3455	— 124		16 38 48.7	—14.636	—327		67.4, 59.0	3, 4	1928
4987		7.9	8 8.44	3.5656	— 204	+ 22	28 25 58.0	—14.675	—348	— 2.9	79.6	8	1722
4990		8.0	8 18.31	3.1476	— 65	00	4 43 42.0	—14.685	—306	0.0	88.5, 87.6	6, 5	2150

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Dp.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
4994		7.5	8 58.92	3.4749	— 170	—0.62	23 55 24.8	—14.725	—338	— 6.9	81.3, 81.7	4	+2065
4996		8.2	9 2.55	3.7699	— 294	— 19	37 33 30.2	—14.729	—367	— 1.9	81.2, 88.9	6, 7	1959
5003	A	7.2	10 6.38	3.4775	— 173	— 45	24 10 32.8	—14.792	—336	— 7.2	72.2, 72.1	9	2068
5003	B	(7.5).	6.49:	3.4775	— 173	— 28:	10 38.3	—14.792	—336	— 5.5	95.2, 02.4	3, 4	2068
5004		6.5	10 14.69	3.0919	— 51	— 59	1 14 58.8	—14.800	—298		96.8, 75.0	6	2267
5005		7.3	10	3.5738	— 211	+ 53	29	—14.813	—345	—51.2	H		1883
5006		(8.6)	10 30.61	3.1951	— 79		7 45 54.2	—14.816	—308		96.7, 75.7	3	2102
5011		5.8	10 43.17	3.7235	— 276	— 40	35 53 14.7	—14.828	—359	— 2.2	77.8, 78.3	7, 6	1971
5012		8.7	11			— 20	12			— 2.0	S 3689		2009
5014		3.8	11 3.60			— 21	37 19 45.0			—13.5	B 2495		1965
5015		7.6	10 59.20	4.7540	— 919	— 22	61 52 27.1	—14.844	—460	0.0	79.4	7	1114
5016		8.5	11 7.82	3.5965	— 221		30 15 57.9	—14.852	—346	— 6.0	83.2, 93.8	2, 3	1845
5017	A	(7.5)	11 3.84	7.6819	—4604	+ 95.	78 58 3.7	—14.847	—747	+ 2.0	87.7	6	+305
5017	B	(8.0)	3.98	7.6781	—4599	+1.23	57 35.7	—14.848	—746		96.1	3	
5018		8.6	11 29.74	3.4226	— 153	00	21 20 20.7	—14.873	—328	0.0	70.0, 69.2	7, 6	2009
5019		(9.1)	11 29.15	5.2600	—1365		67 42 35.3	—14.873	—508		88.3	2	+585
5020		8.8	11 43.24	3.4606	— 168		23 26 11.1	—14.887	—332		85.3	4	2074
5023		6.1	12 2.48	4.2083	— 541	— 49	51 47 13.3	—14.906	—404	+14.8	63.6, 60.1 (B 2502)	18, 20	1495
5030		5.9	13 9.11	3.7853	— 310	— 44	38 42 58.0	—14.971	—361	— 3.3	82.3, 77.9	9	2025
5032		8.8	13 12.13	3.7484	— 293	— 01	37 14 48.7	—14.974	—357	— 0.8	78.2, 78.3	6	1970
5033	B	(9.2)	13 24.37	3.1582	— 69	— 78	5 31 39.8	—14.985	—300		71.5, 84.2	2, 1	2161
5033	A	8.5	24.89	3.1582	— 68	— 62	5 31 39.9	—14.986	—300	— 5.6	64.3, 64.0	4, 3	2161
5034		8.6	13 35.83	3.6930	— 268	00	34 58 0.0	—14.996	—351	0.0	81.3, 80.2	8, 6	+1981
5037		(8.5)	13 59.67	4.1715	— 526	+ 55	51 8 0.1	—15.020	—397	0.0	76.4	5	1500
5037		(8.5)	14 1.76	4.1713	— 526		8 0.6	—15.022	—396		83.7	3	1500
5038	B	(8.3)	13 59.92	4.1309	— 502	—1.40	50 4 34.6	—15.020	—393		78.5	4	1633
5038	A	6.9	14 0.16	4.1308	— 502	— 29	29.9	—15.020	—393	0.0	72.6, 69.2	16, 18	1633
5040		9.1	14 25.65	3.3983	— 147		20 14 41.4	—15.044	—321		99.4	2	2306
5047		8.5	15 35.95	3.8011	— 324	+ 12	39 40 4.9	—15.112	—359	— 2.5	77.7	6	2237
5051		9.2	15 59.24	3.7814	— 314	+ 20	38 57 15.2	—15.134	—355	— 1.6	02.1, 02.8	3	+2238
5053		9.7	16 10.55	3.4390	— 164	+ 16	22 42 42.2	—15.145	—322	+ 2.5	82.3	4	2087
13183		9.0	16 13.34	3.3021	— 114	+ 66	14 42 9.4	—15.148	—309	—10.7	83.2	2	2083
5055		6.4	16 14.82	4.1979	— 553	+ 17	52 6 30.7	—15.149	—359	0.0	74.8, 75.1	8	1389
5056	G. B.	8.1	16 33.03	3.5459	— 207	00	28 25 59.9	—15.167	—332	—12.4	81.5, 66.5	5, 4	1745
5058		6.9	16 45.17	3.1339	— 62	— 59	4 2 2.7	—15.178	—292	+ 1.0	78.0, 77.7	4	2178
5059	B	(8.0)	16 45.39	4.2996	— 622	— 62	54 33 11.9	—15.178	—404		81.8, 78.9	4	1299
5059	A	7.4	45.85	4.2996	— 622	— 57	33 8.1	—15.179	—403	0.0	62.2, 71.7	15, 18	1299
5060		8.2	16 29.20	4.9353	—1120	— 32	64 52 47.5	—15.182	—464	0.0	82.4	7	735
5062		4.6	17			— 23	26			— 5.3	B 1524		1939
5063		(8.3)	17 25.71	3.5202	— 198	00	27 13 7.7	—15.217	—328	0.0	85.9	4	1750
5067		(8.3)	17 43.01	3.5759	— 222		30 4 57.7	—15.233	—333		87.8	5	1864
5070	A	8.8	17 50.56	3.5112	— 194		26 47 58.9	—15.240	—326		96.0, 82.0	2, 3	1940
5071		6.8	17 53.48	3.1772	— 75	—1.27	6 53 13.0	—15.243	—295	— 5.4	73.8, 75.7	10, 12	2169
13185		9.4	18 15.94	3.3103	— 118	+ 21	15 21 0.4	—15.264	—307	—10.7	86.7	2	2043
5077		8.1	18 40.41	3.5557	— 215	— 86	29 11 26.3	—15.288	—328	— 6.5	90.1	4	1900
5078		8.8	18 48.67	3.6060	— 237		31 41 8.5	—15.296	—334		99.1	2	1982
5085		7.8	19 56 63	3.3031	— 117		15 2 5.7	—15.359	—303		80.6, 79.7	4	2049
5086		7.9	19 59.13	3.1788	— 76	— 14	7 4 12.6	—15.362	—291	+ 1.8	83.9	4	2127
5089		8.7	20 25.29	3.6082	— 240		32 0 29.9	—15.386	—331		00.8	2	1884
5090		5.6	20			— 03	46			—13.6	B 2530		1509

Bu.-Nr.	Komp.	Gr.	A. R. 1775	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″			″			
5090		(8.0)	20	s		—0.12	46	″		— 5.3	B 2531		1510
5092		9.0	20 37.67	+3.4425	— 170		23 22 34.2	—15.398	—315		92.0	2	2100
5093	A	7.2	20 30.12	5.2030	—1414	+ 33	68 5 9.6	—15.390	—480	— 2.2	81.2, 74.2	9, 8	572
5093	B	(8.0)	31.14	5.2021	—1414	+ 25	4 50.0	—15.392	—480	+ 2.7	84.0	3	572
5094	p	(7.2)	20 41.98	3.1740	— 74	—1.49	6 46 44.4	—15.402	—290	—19.7	58.3, 57.2	4	2177
5094	s	6.7	20 42.06	3.1740	— 74	—1.38	6 46 43.9	—15.402	—290	—17.3	64.0, 64.9	6	2177
5095		8.7	20 45.27	3.3223	— 124	— 17	16 17 2.2	—15.404	—304	— 4.1	72.5	5	1964
5102		(8.9)	21 32.91	3.4580	— 177	— 62	24 20 53.8	—15.449	—315		02.1	3	2089
5103		5.5	21			+ 36	9			— 1.3	B 2538		2188
5104		3.8	22				63				B 2540		845
13186		9.0	21 43.37	3.2648	— 104	+1.70	12 44 34.8	—15.459	—297	+ 2.5	78.7	2	2041
5105		5.9	21			— 20	8			— 2.8	B 2539		2539
5111		7.7	22 49.20	3.9258	— 411		45 13 49.2	—15.520	—357		77.0	2, 2	1728
5111		(8.8)	49.98	3.9255	— 411	— 64	27.1	—15.521	—357		80.8, 88.3	3, 2	1729
5112		(9.1)	23 8.12	3.1477	— 67		5 5 53.4	—15.537	—284		90.7	2	2183
5113		(6.7)	23 9.69	3.6467	— 263	— 29	34 12 13.6	—15.539	—330	— 3.8	75.2, 87.2	21, 19	1999
5116		(7.7)	23 52.70	3.2381	— 96	—1.18	11 8 50.7	—15.578	—291	0.0	92.1, 95.9	6	2052
5116		7.7	53.62	3.2382	— 96	—1.35	8 56.9	—15.579	—291	0.0	86.9, 86.1	8	
5120	B	(7.3)	23 52.69	5.0894	—1340	— 67	67 20 43.4	—15.578	—461	0.0	83.8	6	597
5120	A	7.4	54.43	5.0892	—1339	— 83	20 47.7	—15.580	—461		82.0	4	597
5121		9.1	23 58.68	4.3581	— 702	00	56 47 57.6	—15.584	—393	0.0	80.3, 85.9	4	1390
5124		8.3	24			— 30	20			— 8.0	H		2332
5125		9.1	24 43.36	3.5757	— 232		30 59 54.5	—15.625	—320		00.1	2	+1999
5127		7.0	25 4.10	3.1017	— 53	— 12	2 0 55.0	—15.644	—276	— 3.3	78.6, 78.7	5	2215
5129		7.5	25 7.44	3.4170	— 164		22 24 23.0	—15.647	—305		92.4	4	2102
5131		5.3	25			— 05	10			— 2.3	B 2556		2014
5133		7.2	25 46.48	4.6036	— 908	— 50	61 26 50.0	—15.682	—412	— 6.9	81.3	5	1132
5134		6.4	26			— 16	28			— 1.5	S 3792		+1913
5136	p	6.4	25 56.91	5.9078	—2321	—1.06	73 38 13.6	—15.691	—530	— 2.6	50.0, 79.2	6, 5	470
5137		(9.0)	26 21.89	3.1420	— 65		4 48 7.1	—15.714	—278		95.1	2	2204
5139		(8.9)	26 30.40	3.4929	— 197		26 52 41.0	—15.722	—310		86.3, 93.0	3, 2	1965
5142		8.3	27 2.26	4.2050	— 607	— 54	53 51 1.9	—15.751	—373	— 3.3	81.1, 83.9	5	1350
5143		9.1	27 13.73	4.0796	— 522		50 37 41.7	—15.761	—361		02.6	3	1661
5144		8.5	27 24.64	4.2028	— 607	— 22	53 51 12.3	—15.771	—372		78.8, 79.1	7	1351
5145	A	6.6	27 33.07	3.7774	— 340	00	40 31 4.2	—15.779	—333	+ 1.5	75.6, 80.8	8, 9	2226
5145	B	(8.0)	27 34.14	3.7772	— 340	— 64	40 30 43.6	—15.780	—333	+ 2.8	86.8, 98.1	4, 5	2226
5147		9.4	27 42.79	3.2281	— 94	+ 91	10 42 16.6	—15.788	—284	+ 3.7	89.0	2	2019
5148		(7.5)	27 22.92	7.4816	—4916		79 23 24.6:	—15.770	—666	— 2.8:	96.8, 96.4	3	316
13189		5.5	28 9.41	3.6780	— 288	—5.87	36 22 28.0	—15.811	—323	—25.0	72.4, 65.1	19, 20	1979
5149		8.3	28 19.78	3.2867	— 115		14 37 52.8	—15.821	—288	— 3.2	75.0, 73.9	5, 6	2113
5150		8.8	28 26.74	3.5462	— 224	— 37	29 59 32.8	—15.837	—311	+ 4.0	89.4	3	+1879
5152		7.9	28 54.17	3.1362	— 63	— 37	4 27 51.5	—15.851	—273	— 9.0	73.9, 67.7	6	2213
5154		6.2	29			— 27	14			— 1.4	B 2576		+2077
5158		7.7	30			— 39	16			— 2.8	H		1997
13191		9.2	30 57.21	3.2508	— 103	— 56	12 26 33.2	—15.961	—280	— 6.9	77.2	3	2070
5164		7.6	32 2.97	3.2336	— 97	— 72	11 20 30.3	—16.019	—227	— 4.5	86.4, 89.0	9, 10	2071
13192		8.7	32 16.58	3.3001	— 122	— 64	15 50 14.8	—16.031	—282	+ 2.2	64.9	3	2093
5169		9.0	33 27.22	4.5018	— 878	+ 27	60 50 4.2	—16.092	—385		81.8	3	1201
5171		7.0	33 37.55	3.7297	— 328	+ 68	39 31 13.7	—16.101	—317	—12.5	82.9, 82.3	7	2271
5174		8.2	34 21.46	3.6308	— 276	— 28	35 8 31.6	—16.139	—307	— 1.6	82.4, 82.9	4	2039

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Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s			s	° ′ ″	″		″			
5175		3.8	34	s		—0.98	10			— 3.9	B 2602		2044
5176		8.1	34 31.69	+4.0567	— 537	— 38	51 9 22.4	—16.148	—344		99.4	3	1537
5177		7.5	34 40.59	3.7741	— 357	— 44	41 32 37.5	—16.156	—319	— 8.7	71.9, 70.3	6	1996
5178		8.2	35 24.68	3.3232	— 133	— 18	17 39 0.4	—16.194	—279		81.5, 89.8	5, 4	2120
5179		8.9	35 31.05	3.3404	— 140		18 47 30.7	—16.199	—280		94.7	3	2251
5182		8.9	36 16.94	3.2779	— 116	+ 63	14 41 16.0	—16.239	—274	— 8.2	1837.5	2	2133
5187		7.3	36 57.95	3.1159	— 57	00	3 11 52.6	—16.274	—258	0.0	66.9	16	2261
5188	med.	8.1	37 6.38	3.8209	— 392	— 27	43 48 13.5	—16.281	—318	— 9.7	65.7, 68.0	4	1958
5191		6.6	37			00	19			— 7.0	S 3869		2251
5195		7.9	38 38.06	3.2011	— 87	— 54	9 27 25.0	—16.359	—263	— 4.2	66.0, 68.8	10, 8	2233
5197		8.7	39 15.76	4.0418	— 548		51 31 52.9	—16.391	—333		18.4	4	1543
5199		8.7	39 27.20	3.6300	— 286	+ 10	35 56 21.8	—16.400	—297	— 2.4	75.4, 80.9	4	+1993
5200		9.1	39 9.14	5.9847	—2727	—1.80	75 10 27.6	—16.385	—497	— 4.2	97.1, 96.3	5	395
5201		9.0	39 40.92	3.2945	— 124		16 8 8.0	—16.411	—269	— 6.9	82.0, 82.7	4	2022
5207		7.6	41 4.89	3.2155	— 93	00	10 39 10.5	—16.482	—260	0.0	96.8, 95.9	7	2054
5210		7.1	41 35.70	3.5973	— 272	— 42	34 39 58.9	—16.507	—291	— 6.4	94.9, 95.7	3, 4	2035
5211		9.3	42 0.27	4.3219	— 784		58 47 8.7	—16.528	—350		74.4	2	1216
5212		3.9	42			—3.81	59			—15.9	B 2632		1268
5214		8.5	42 6.44	4.4486	— 897		61 11 52.3	—16.533	—360		84.5	5	1146
5219		8.0	43 0.23	3.3085	— 132	+ 17	17 25 14.7	—16.577	—264	— 3.9	86.2, 83.9	8	2141
5221	B	9.6	43 5.29	3.3009	— 129		16 54 38.4	—16.581	—264		85.6, 93.4	2	+2143
5221	A	9.2	43 5.26	3.3009	— 129	+ 40	16 54 50.6	—16.581	—264	— 3.8	74.6	5	+2143
5222		8.5	43 6.39	3.3042	— 130	— 41	17 8 26.1	—16.582	—264	0.0	79.8	6	2144
5223		4.5	43 35.30	4.1289	— 634	00	54 38 49.7	—16.606	—330	0.0	67.6,72.4 (B 2637)	30, 33	1331
5224		7.8	43 37.92	3.6384	— 299	—1.54	37 4 21.5	—16.608	—290	— 2.3	94.0, 94.8	4	2023
5225		9.3	44 1.01	3.3428	— 148		19 53 40.3	—16.627	—265	— 6.6	85.6, 85.8	6	2271
5226		8.1	43 39.17			00	80 58 9.2			0.0	86.5, 86.7	9, 8	+319
5227		7.5	44 16.16	4.7004	—1162	— 87	65 22 30.2	—16.639	—376	0.0	82.2, 81.2	6, 8	741
5228		8.6	44 50.89	3.4989	— 225		29 51 4.5	—16.667	—277	— 4.2	93.5	3	1956
5229	p	(9.5)	44 41.16:	5.0658	—1577	—1.40:	69 31 43.6:	—16.660	—404	—10.9:	90.1	3, 2	+541
5229	s	9.4	43.56:	5.0654		—2.30:	42.2:	—16.661		— 7.9:	89.6	4	
5230		8.7	44 43.97	5.0612	—1572	00	69 29 18.7	—16.661	—404	0.0	74.2, 74.0	5	+542
5232		7.4	45 1.93	3.9961	— 539	— 19	51 12 28.3	—16.676	—316	— 4.7	73.5	4	1553
5233		8.1	45 14.21	3.4595	— 205	+ 88	27 34 22.2	—16.686	—273	—17.4	78.8	4	1819
5234		8.4	45 17.18	3.2996	— 130	00	17 2 52.4	—16.688	—260	— 2.4	79.4	5	2148
5239		7.4	47			— 21	5			+ 0.7	B 2654		2248
5241		8.6	47 42.18	3.9988	— 554	— 50	51 46 53.4	—16.805	—311		93.1, 93.4	3	1557
5248		8.1	48 43.34	3.2092	— 93	— 47	10 42 9.3	—16.853	—246	— 3.2	74.9, 72.9	8, 7	2072
5249		9.2	48 50.09	3.4850	— 223	— 26	29 41 21.9	—16.859	—268	— 3.4	73.5	3	1971
5250		9.2	48 57.30	3.1828	— 82		8 41 33.5	—16.864	—244		77.6, 75.8	5, 6	2287
5254	GB		49 19.19	3.8327	— 439	— 29	46 29 52.9	—16.882	—294	— 8.9	76.0, 77.1	5	1565
5254	A	8.6	49 19.12:	3.8327			46 29 53.3:	—16.882	—294	— 7.2:	73.0	3	1565
5255		8.7	49 39.22	3.4180	— 190	00	25 38 49.1	—16.897	—261	— 3.4	71.0	9	2184
5256		8.5	49 41.08	3.2155	— 95	00	11 15 27.2	—16.899	—245	— 3.8	62.8	6	2128
5258		(8.6)	49 58.75	3.3534	— 158	— 52	21 22 16.4	—16.913	—256	— 4.4	88.3, 82.6	4, 5	2128
5259		7.7	50 8.19	3.3385	— 151	—2.01	20 21 19.8	—16.920	—254	— 3.1	79.8	4	2399
5260		(9.4)	50 34.26	5.5949	—2402	00	74 9 56.8	—16.941	—431	0.0	84.6, 78.7	4, 3	420
5268		7.8	51 25.47	4.9563	—1539	— 78	69 18 58.2	—16.980	—377	0.0	77.4, 76.8	9, 7	550
5269		(7.3)	51 57.91	3.2171	— 97	00	11 33 18.5	—17.005	—241	+ 3.7	65.5, 67.8	7	2134
5272		7.9	52 51.01	4.9445	—1545	— 77	69 23 9.8	—17.046	—373	0.0	79.9	8	552

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5276		7.9	53 39.95	+3.1563	— 72	—0.78	6 50 53.8	—17.084	—234	0.0	85.9, 88.8	12, 9	2240
5281		8.2	54 42.22	3.8166	— 448	— 07	46 57 45.6	—17.131	—282	— 1.8	72.7, 77.4	7, 6	+1736
5282		(7.5)	54 44.34	3.9146	— 521		50 28 48.7	—17.133	—289		83.3, 77.8	6, 8	1706
5290		9.2	56 15.58	3.1726	— 79	— 17	8 18 33.3	—17.202	—230	— 5.0	71.1	5	2310
5291		6.8	56 24.47	3.6209	— 318	— 80	38 37 29.4	—17.208	—264	—21.9	85.5, 81.8	11	2096
5292	A	(8.1)	56 28.69	4.0931	— 678	00	56 5 30.3	—17.211	—299	0.0	88.9	6	1428
5292	B	(8.8)	56 31.52	4.0927	— 677		5 27.2	—17.213	—299		72.3, 75.9	3	1428
5295		7.6	56 41.33	3.5214	— 258	— 35	33 14 59.8	—17.221	—256	0.0	79.2, 72.8	7, 10	1938
5296		8.8	56 54.46	3.1040	— 50		2 39 39.5	—17.231	—224		99.4	2	2282
5304		7.9	58 24.68	3.4899	— 242	— 26	31 41 35.4	—17.298	—250	0.0	77.6	6	2095
5305		7.2	58			— 80	40			— 3.0	C 1779		C 2286
5314	A	(9.5)	59 13.24:	5.9788	—3280	—2.69:	76 58 27.6:	—17.333	—431	— 3.0:	87.4	2	+395
5314	B	(9.5)	13.68:	5.9802	—3283	—1.43:	51.1:	—17.334	—431	— 3.3:	93.3	2	
5315		9.0	59 47.16	4.5117	—1120	00	65 3 17.8	—17.358	—322	0.0	77.6	4	751
5322		8.9	0 30.80	5.3418	—2234	00	73 38 52.6	—17.390	—381	+ 2.2	83.2	5	487
5326		6.2	1 2.37	3.4902	— 247	— 53	32 13 0.2	—17.413	—245	— 6.8	88.8, 85.6	14, 13	1982
5328		4.6	1			— 64	10			— 6.9	B 2696		2112
5331		1.3	2			—1.69	12			— 0.3	B 2698		2149
5333		(7.8)	2 14.16	3.3431	— 164		22 24 6.8	—17.465	—232		94.9	3	2185
5336		9.0	2 22.71	6.8273	—5180	00	80 5 7.5	—17.471	—481	0.0	90.5	7	313
5343		(9.1)	4 37.94	3.1932	— 89		10 37 34.1	—17.567	—217		98.3	3	2119
13195		6.4	5			+ 33	13			— 4.7	B 2711		+2217
5345		(7.7)	5 9.38	3.3154	— 152	+ 28	20 44 3.2	—17.589	—225	— 1.7	75.6, 79.6	8, 7	2447
5347	med.	9.0	5 31.19	3.2676	— 127	— 20	16 57 51.6	—17.604	—221		09.6	2	+2181
5348		9.0	6 1.16	3.6091	— 336		40 5 17.2	—17.625	—244	— 4.1	66.4	3	2304
5349		8.2	6 4.47	3.4118	— 208	— 30	28 2 26.7	—17.627	—230	—13.7	82.4	8	1855
5354		9.0	7 45.32	3.2828	— 136	— 54	18 30 43.6	—17.697	—218	— 7.9	87.8	2	2335
5356	A	6.7	7 43.86	4.9724	—1824	—1.19	71 40 60.7	—17.696	—333	— 4.7	80.1	10	534
5356	B	7.3	7 44.67:	4.9717	—1824	— 67:	43.5	—17.696	—333		83.7, 79.4	5	
5359	med.	8.0	8 17.96	3.2970	— 144	— 28	19 44 38.7	—17.719	—218	0.0	72.1	7	2322
5360		9.4	8 15.20	4.0839	— 746		58 14 11.0	—17.717	—271		62.5, 72.7	3, 2	1245
5363		8.4	9 6.00	3.4883	— 261		33 46 32.8	—17.752	—229		96.0	2	1962
5365		6.6	9			00	18			0.0	S 4028		2338
5368		3.6	9			+ 16	24			— 1.5	B 2730		2209
5371		5.8	10			—2.98	23			—11.0	B 2734		2207
5372		8.5	10 26.08	3.1889	— 89	+ 13	10 44 13.2	—17.805	—206	— 4.6	82.9	5	2132
5376		9.2	10 54.20	4.6489	—1425	— 67	68 45 52.8	—17.825	—303	— 3.6	84.3, 83.8	4	598
13196		7.9	11 0.46	3.5528	— 309	— 75	38 7 57.5	—17.829	—230	— 1.2	88.1, 84.4	4	2125
5377	A	7.9	11 2.21	3.3997	— 207	00	28 8 55.5	—17.830	—219	— 1.0	78.8	5	1866
5379		8.9	11 10.09	3.5804	— 330	—1.41	39 44 6.8	—17.835	—232	— 1.8	80.4, 80.9	4	2337
5385		8.8	12			—1.20	21			— 2.0	H		2172
5386		6.5	12 25.18	3.9309	— 627	— 43	54 50 35.5	—17.885	—252	0.0	88.0, 81.0	14, 19	1367
5388		2.6,3.8	13			+2.15	20			—15.3	B 2742–43		2467
5391		9.0	13 11.35	3.2229	— 107	— 65	14 4 41.4	—17.915	—203		83.6	3	2233
5393		8.1	13 47.37	3.1990	— 95	00	11 58 47.8	—17.939	—201	0.0	86.9, 88.2	11	+2193
5395		8.9	13 54.04	3.7076	— 438		46 46 51.7	—17.943	—234		66.5, 62.8	3, 2	1620
5397	AB	7.9	13 59.66	3.1461	— 68	00	7 3 31.5	—17.947	—197	— 5.4	70.1, 72.0	17, 13	2282
5398		8.4	13 8.11			—2.40	86 41 43.8			0.0	73.4, 74.4	10	152
5400	B	(7.7)	14 26.44	3.6569	— 399		44 31 55.2	—17.964	—229		76.5, 72.8	2, 3	1977

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	E. D. Nr.
			m s	s		s	° ′ ″	″		″			
5400	A	7.0	14 26.97	+3.6569	— 399	—0.42	44 32 2.6	—17.965	—229	— 2.5	68.2	4	1977
13197		9.0	15 23.40	3.2089	— 101	—1.15	13 3 29.3	—18.001	—199	— 3.5	84.8	4	2244
5409		7.4	16			—1.83	16			—12.4	H		2116
5412	B	9.4	16 43.75	3.1370	— 63		6 20 34.1	—18.053	—192		77.6	2	2301
5412	A	6.7	45.03	3.1368	— 63	—1.62	19 38.9	—18.053	—191	— 7.1	82.3	14, 13	2301
5415		7.4	17 9.88	3.4755	— 270	00	34 48 31.4	—18.069	—212	0.0	97.1	9	2124
5418		6.4	17 45.40	3.1025	— 46	+ 30	3 0 2.8	—18.092	—187	0.0	80.0, 75.0	4	2358
5421		8.2	18	3.3435	— 182	+ 04	25	—18.104	—202	—17.9	H	7	2247
5422	A	8.7	18 4.83	3.8426	— 577	—1.45	53 15 23.7	—18.104	—233	— 4.1	74.4, 68.0	4, 5	1404
5422	med.	7.4	4.98	3.8426	— 577	—1.34	15 23.7	—18.104	—233	— 3.6	59.0, 60.1	5, 6	1404
13200		9.2	18 16.04	3.5115	— 298	— 17	37 24 57.1	—18.111	—212	— 1.2	12.9, 13.6	4	2076
5426		7.7	19 0.04	3.1668	— 79	00	9 24 37.1	—18.138	—189	0.0	69.7, 68.5	18	2352
5428		6.6	19 39.95	3.1175	— 53		4 34 1.8	—18.163	—185	— 1.6	95.2	5	2328
5431		7.4	20 7.68	3.2541	— 129	— 32	17 51 24.9	—18.180	—193	— 7.7	77.7, 76.5	10	2224
5433	med.		20 22.46	3.2628	— 135	— 71	18 42 7.1	—18.189	—193	—12.5	72.9	2	2366
5433	p	8.7	20 22.18	3.2628	— 135		6.2	—18.189	—193		80.8	2	2366
5436		5.9	21			+ 08	10			— 0.7	B 2777		2152
5437		7.2	21 2.55	3.1133	— 51	— 94	4 12 2.0	—18.214	—182	— 2.2	78.9, 77.6	5	2333
5438	B	(10.0)	21 8.52	3.2809	— 146		20 27 50.0	—18.217	—192		80.8	2	2491
5438	A	9.4	8.75	3.2809	— 146		57.8	—18.217	—192		68.2	3	2491
5441		9.0	21 50.19	3.2086	— 103	— 60	13 47 35.5	—18.243	—187		84.2	2	2261
5442		9.2	22 19.08	3.5135	— 311	+ 37	38 35 58.5	—18.260	—204	— 4.0	02.7	2	2144
5443		8.7	22 18.00:	3.9234	— 684	— 21:	56 59 42.8	—18.259	—229	— 3.3	82.8	5	1271
5444		7.6	22 25.06	3.7698	— 533	— 69	51 37 57.6	—18.264	—219		82.1, 80.0	8, 7	1604
5445		7.6	22 34.94	3.1774	— 86	00	10 47 41.1	—18.270	—183	— 3.3	66.4, 77.0	10.11	2160
5446	A	7.0	22 52.86	3.3797	— 214	00	29 13 11.6	—18.280	—195	0.0	77.3	8	2056
5446	B	8.0	22 45.87	3.3798	— 214	00	29 11 40.3	—18.276	—195	0.0	65.2, 81.7	6, 7	2057
5448	A	8 4	23 15.89	3.2874	— 152	+ 61	21 26 33.4	—18.294	—188	— 8.2	72.1, 72.6	4	2202
5448	B	(8.5)	16.11			+ 43	32.2				91.4	2	2202
5452		8.5	23 47.82	3.1907	— 94	00	12 16 13.23	—18.313	—182	0.0	76.3, 75.6	9, 8	2219
13204		9.0	23 59.86	3.4935	— 300	— 20	37 45 52.0	—18.321	—200	0.0	11.0, 13.6	4	2090
5455		7.5	24 2.45	5.0293	—2270	00	74 28 37.9	—18.322	—291	0.0	77.5	6	438
5458		5.8	24			+ 10	33			— 0.8	B 2798		1999
5460		(8.6)	24 53.44	3.4200	— 247		32 49 36.7	—18.352	—193		96.3	2	2040
5461	A	7.5	25 8.15	3.2970	— 161	00	22 40 51.3	—18.361	—186	0.0	77.4	7	2232
5461	B	(7.8)	25 8.57	3.2969	— 161	00	22 40 38.8	—18.361	—186	0.0	89.3	4	
5462		9.0	25 9.68	3.4278	— 253	— 32	33 28 57.3	—18.362	—193	— 4.8	96.4	2	2000
5466		4.8	25			—1.25	41			— 0.7	B 2802		2101
13205		9.3	25 47.23	3.4607	— 280	— 29	36 1 29.3	—18.384	—194	— 1.7	11.0, 13.4	4	2082
5468	med.	9.2	26 2.90	3.4933	— 306	— 09	38 19 6.4	—18.393	—195	— 8.6	01.7	2	2152
5472		8.7	26 51.36	3.2224	— 115	+ 14	15 51 26.8	—18.421	—178	— 3.7	75.2	7	2220
5474	A	7.1	26 55.65	3.7073	— 170	— 30	23 59 39.6	—18.423	—183	0.0	68.7, 68.5	10	+2244
5474	B	(8.9)	55.44:	3.7073	— 170	— 50:	59 36.6	—18.423	—183		01.8	3	
5476	C	(9.0)	27 33.70	3.2868	— 157	00	22 14 14.6	—18.445	—180	0.0	91.2	4	2236
5476	A	7.3	34.45	3.2868	— 157		17.0	—18.445	—180		82.5, 91.2	9	2236
5478		(9.0)	27 57.06	3.4488	— 276	— 46	35 46 31.4	—18.458	—188	— 6.0	82.0, 82.3	4	2159
5484		5.7	28			— 30	9			— 1.1	B 2817		2374
5481		7.2	28 1.98	3.6187	— 420	+ 11	46 17 57.9	—18.461	—198	— 3.0	83.8, 85.1	5, 6	1642
5485		9.0	28 28.97	3.3362	— 192	+ 24	26 55 18.2	—18.476	—181	—21.1	93.9, 91.0	5, 6	+1907

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5487		8.9	29 20.80	+3.1011	— 43	—0.23	3 12 2.9	—18.506	—166	— 1.1	64.9, 68.8	3, 2	2392
5490		(9.0)	29 41.36	3.5472	— 363		42 46 45.4	—18.517	—191		50.0	2	2135
5493		6.9	30 8.42	3.9856	— 818	— 36	60 46 45.3	—18.532	—214	—19.5	76.7, 89.5	17, 18	1274
5500		(8.0)	30 52.11	3.5143	— 339	—1.05	41 5 8.9	—18.557	—186	— 3.5	88.5, 85.2	7, 6	2107
5506		8.0	31 51.57	3.0888	— 35	+ 07	1 53 36.8	—18.589	—161	— 3.0	73.5, 73.3	7, 5	2343
5508		7.6	32 12.66	3.1281	— 58	00	6 22 59.9	—18.601	—163	0.0	68.9, 70.1	9, 8	2328
5509		(8.2)	32 26.52	3.3880	— 239		32 21 6.9	—18.608	—176		73.1, 72.5	3	2064
5509		(8.0)	32 26.37	3.3880	— 239	— 77	22.0	—18.609	—176		60.5, 63.5	4	2064
5510		(8.1)	32 33.29	3.3528	— 212	— 27	29 24 3.7	—18.612	—174	+ 1.4	79.2	3	2073
5514		8.0	33 0.89	3.4741	— 311	— 18	39 3 14.4	—18.627	—180	— 1.1	80.2, 80.5	4	2370
5515		7.9	33 9.27	3.1549	— 75	— 87	9 29 35.2	—18.632	—162	0.0	83.4, 75.5	14, 13	2382
5516	p	7.8	33 16.80	3.5296	— 361		42 48 12.7:	—18.636	—182	+ 3.3:	66.4	2	2139
5516	med.		16.80	3.5296	— 361	— 21	10.8	—18.636	—182	+ 3.4	64.4, 56.8	5, 6	2139
5517		8.2	33 18.35	3.2509	— 139	— 33	19 53 31.6	—18.636	—167	— 3.5	81.3	5	2363
5519		7.9	33 28.93	3.5188	— 352	00	42 10 41.4	—18.642	—181	— 2.9	79.4, 823	5, 7	2140
5521		(8.0)	34 0.42	3.1829	— 93	00	12 43 47.2	—18.659	—162	0.0	86.4, 87.6	11, 12	2242
5523		8.3	34 32.92	3.6001	— 432	— 13	47 18 7.8	—18.676	—183	— 2.7	76.6, 65.1	4, 3	1799
5525		7.4	34 46.66	3.0754	— 27	— 31	0 22 36.2	—18.684	—155	— 2.8	83.3, 79.3	6	2693
5526		9.6	34 48.78	3.3317	— 200	+1.25	28 7 26.9	—18.685	—169		76.1, 80.4	3, 2	1918
5527		7.6	35 5.89	3.1698	— 85	00	11 23 30.6	—18.694	—159	0.0	61.7, 64.0	11, 13	2268
5528		7.2	35 16.60	3.6785	— 515		51 27 8.5	—18.700	—186		64.0, 64.5	3	1621
13207		8.9	35 24.22	3.4454	— 294	— 61	37 43 23.3	—18.704	—173		11.0, 11.6	3	2113
5529		8.9	35 28.12	3.5954	— 432	+ 45	47 20 41.8	—18.705	—181	— 3.2	75.4	4	1803
5533	A	8.8	35 51.84	3.5568	— 397	+ 29	45 16 56.6	—18.718	—178	— 5.7	70.6, 72.1	2	1855
5533	G. B.		51.96	3.5568	— 397		55.0	—18.718	—178		64.9	3	
5535		5.6	36			— 79	26			— 6.5	B 2852		1927
5537		5.3	36			—1.85	46			— 7.4	B 2853		1657
5539		6.0	36			+0.20	5			— 3.3	B 2858		2384
5544		(8.7)	37 53.84	3.2556	— 147		21 21 43.0	—18.781	—158		95.1	3	2230
5544		8.8	53.98	3.2556	— 147		21 38.5	—18.781	—158		98.0	3	
5545		8.1	37 54.98	3.5512	— 401	— 18	45 37 30.7	—18.782	—174	0.0	82.8, 75.9	5, 6	1860
5546		8.3	38 12.84	3.4526	— 309	— 60	39 9 45.3	—18.791	—168	+13.1	06.3, 06.8	3	2376
5551		7.6	39 19.96	4.1132	—1090	—1.62	66 7 4.5	—18.825	—199	0.0	79.3	5	682
5553		(9.0)	39 36.78	3.6452	— 506	— 89	51 16 42.3	—18.833	—175		93.6	2	1624
5557		(8.4)	40 23.26	3.1831	— 96	— 21	13 41 23.2	—18.856	—150	— 6.2	69.0, 65.8	8	2304
5558		8.9	40				23				C 1917		2261
5560	G. B.	6.8	40 50.92	3.4765	— 341	— 13	41 46 7.6	—18.870	—164	— 2.7	80.5, 81.2	7	2123
5561		(9.1)	41 17.62	3.1372	— 65		8 12 33.1	—18.883	—146		96.0	3	2414
5564		(8.8)	42 42.64	3.7348	— 621	+0.13	55 56 23.9	—18.895	—175	— 0.9	16.9, S 7		+1474
5567		(8.0)	42 15.02	3.4735	— 344	— 73	42 3 1.3	—18.911	—160	— 2.9	82.2, 87.7	6, 7	2148
5569		9.2	42 26.08			+ 77	80 27 6.0			+ 3.3	63.6	2	337
5570		7.2	42 46.04	3.2142	— 121	00	17 48 23.7	—18.926	—147	0.0	71.6	6	2279
5571		8.8	42 51.53	3.2642	— 160		23 30 1.1	—18.929	—149		85.2	3	2264
5574		(8.7)	43 1.04	3.1788	— 95	— 29	13 35 28.4	—18.933	—145	— 6.5	70.1, 70.2	3	2311
5576		8.6	44 16.51	3.2754	— 172	00	25 6 47.6	—18.969	—146	— 2.6	77.4	7	2306
5583		(8.9)	45 38.96	3.1331	— 63		8 7 37.0	—19.008	—138		71.3, 67.1	2, 1	2422
5583		7.9	39.52	3.1331	— 63	00	30.5	—19.008	—138	— 4.1	87.8, 81.9	15	2422
5584		9.0	45 54.46	3.2601	— 162		23 51 53.2	—19.015	—143		91.8	2	2271
5585		10.0	46 9.60	3.2502	— 154		22 48 19.8	—19.022	—142		97.6	3	2285
5588		(8.8)	46 52.87	3.1631	— 85		12 13 18.5	—19.042	—137	+ 6.4	65.2, 66.7	4	2271

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5592	med.	8.7	47 11.66	+3.5386	— 435	+0.18	48 9 25.1	—19.051	—153	0.0	65.1	3	1898
5595		8.7	47 22.16	3.5057	— 400	00	46 7 55.4	—19 056	—151	— 4.8	78.2, 74.4	5, 4	1673
5596		(8.3)	47 26.16	3.4777	— 371	— 58	44 14 53.5	—19.057	—150		57.5, 84.1	4, 2	2028
5597		(8.5)	47 32.96	3.6196	— 529	— 14	52 47 12.7	—19.060	—156	0.0	78.8	5	1522
5598		9.7	47 42.74	3.2348	— 143	— 23	21 24 1.9	—19.065	—138	— 7.6	86.4, 87.5	4	2260
5599		8.4	47 49.42	3.2349	— 143	+ 22	21 26 18.0	—19.068	—138	0.0	80.4, 81.2	7	2262
5600		8.8	48 4.26	3.2596	— 165	— 62	24 25 13.4	—19.075	—139		01.0	3	2285
5603		4.5	48			— 55	25			— 1.7	B 2909		2314
5605		6.0	49 16.51	3.0822	— 26	+ 69	1 24 10.6	—19.107	—128		70.7, 50.0	10	2501
5608		8.7	49 10.81			— 19	83 53 28.4			0.0	82.3, 80.9	6	312
5611		9.1	49 45.56	3.3589	— 260	— 88	35 23 50.9	—19.120	—140	— 2.8	11.5, 01.1	3, 4	2195
5612		(9.0)	49 50.27	3.6182	— 544		53 34 26.4	—19.122	—151		95.7	2	1448
5620		8.2	50 58.34	3.8303	— 835	— 30	62 23 3.0	—19.152	—157	— 1.8	72.7	6	1156
5623		8.6	51 27.17	3.3767	— 284	—1.36	37 41 56.0	—19.164	—137	— 3.6	88.7, 81.6	4	2139
5624		8.3	51 43.57	3.1697	— 93	00	13 56 48.2	—19.171	—128	— 4.8	57.4, 58.0	4	2324
5627		7.3	52 8.10	3.7366	— 717	— 16	59 34 33.3	—19.181	—151	— 1.9	81.4	9, 10	1338
5629		(8.7)	53 5.77	3.2405	— 156		23 37 1.7	—19.206	—128		86.3, 86.8	3, 4	2288
5637		9.1	54 5.99	3.0964	— 35		3 38 21.4	—19.231	—120		95.4	2	2445
5638		(9.0)	54 9.13	3.5724	— 520		52 51 17.4	—19.232	—139		86.2	2	1533
5639		5.1	54			— 36	6			— 3.0	B 2928		2384
5641	A	(9.0)	54 31.55	3.2227	— 143	00	21 45 44.4:	—19.241	—124	+ 6.5:	83.5, 85.3	4	2270
5641	B	(9.3)	31.78:	3.2226	— 143	— 40:	45 26.6:	—19.241	—124	+ 1.8:	85.4, 83.6	4	2270
5642		(8.0)	54 38.99	3.0770	— 20	— 27	0 43 3.1	—19.245	—118		95.0, 75.0	6	2725
5644		8.8	55			— 50	15			+ 3.0	C 1977		2277
5645		9.2	55 27.16	3.2999	— 219	— 48	31 29 46.7	—19.264	—125	— 3.8	70.4, 77.4	5, 4	2222
5646		8.7	55 38.88	3.1413	— 72		10 34 4.3	—19.269	—119	— 4.9	61.0, 62.5	2, 3	2234
5651		8.8	56 0.30	3.3434	— 265	—1.31	36 20 56.9	—19.278	—126	+ 1.6	91.6, 92.3	3	2146
5652		2.0	56			—1.68	62			— 7.4	B 2933		1161
5655		(7.8)	56 34.36	3.4376	— 372	—1.82	45 0 17.5	—19.291	—129	— 9.1	86.7, 87.2	5	+1887
5657		8.4	57 14.42	3.2319	— 156		23 49 17.1	—19.307	—119	— 3.4	87.9, 84.0	3, 4	2303
5658		8.5	57 16.87	3.6430	— 640	—0.38	57 39 59.0	—19.308	—135	— 8.2	17.0, S 7		1306
5659		(7.5)	57 32.09	3.0994	— 37	— 33	4 18 41.5	—19.314	—113		80.2, 75.0	5	2415
5660		6.1	57 33.93	3.3626	— 292	— 70	38 54 51.9	—19.315	—124	+ 0.6	72.0, 71.3	14	2414
5661		8.8	57 14.38			—4.83	83 46 19.8			— 4.0	83.0, 81.7	6	319
13209		9.6	57 39.74	3.1680	— 97	— 38	14 55 19.7	—19.317	—116		84.6, 81.8	4, 3	+2282
5662		8.9	57 54.81	3.7833	— 854	00	63 17 27.9	—19.323	—140	— 1.8	74.5	5	940
5663		(6.5)	57 59.38	3.1570	— 87	00	13 20 25.6	—19.325	—115	0.0	94.2, 89.8	14, 15	2348
5664		7.6	57 59.97	3.3624	— 293	— 83	39 5 6.0	—19.325	—123	— 1.6	07.6, 00.2	3, 4	2419
5665		4.7	58			—2.33	8			— 4.7	B 2942		2455
5667		8.5	58 35.80	3.5171	— 483	— 62	51 29 40.1	—19.339	—127		96.6, 95.6	2	1648
5669		8.7	58 55.70	4.5753	—2413	—1.73	76 36 51.0	—19.323	—170	+ 3.7	86.0	2	412
5671		8.7	59 38.10	3.1194	— 54	— 12	7 42 36.8	—19.363	—110	— 6.8	64.2, 62.9	6	2411
13210		9.3	59 55.03	3.1648	— 96	+1.40	14 56 51.0	—19.369	—111	—32.9	88.8	5	+2288
5676		5.7	0 32.59	3.0880	— 27	—2.26	2 38 1.1	—19.383	—107	— 8.9	81.7, 78.4 (B 2950)	14, 10	2387
5678		9.3	0 39.00	3.1424	— 75	+ 17	11 35 14.8	—19.385	—109		62.3	2	2311
5679		7.3	0 43.07	3.5343	— 523	—1.00	53 29 50.3	—19.387	—124	0.0	66.6	5	1466
5680		(7.3)	0 50.52	3.2089	— 140	+ 14	21 49 35.2	—19.390	—111		85.6, 85.4	5	2284
5681		8.6	1 31.97	3.7394	— 835	00	63 10 24.7	—19.405	—129	0.0	75.0	6	944
5683		8.7	1 44.72	3.1150	— 51	00	7 15 0.9	—19.410	—106	0.0	87.8, 89.0	10	2417
13212		5.6	2			+ 02	25			— 0.2	B 2956		2344

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5686		7.9	2 2.53	+3.7584	— 874	0.00	64 0 42.2	—19.416	—129	0.0	78.2, 78.5	4	834
5688		(9.0)	2 52.95	3.5680	— 590	+ 09	56 22 9.3	—19.435	—120	+ 0.8	17.0, S 7	2	1504
5691	A	(8.7)	3 36.88	3.8284	—1019	— 55	66 41 44.0	—19.450	—128	—13.5	79.4, 84.4	8, 7	704
5691	B	(8.7)	41.43	3.8276	—1019	00	42 28.7	—19.452	—127	0.0	73.2, 70.3	8	705
5692		9.8	3 47.69	3.8293	—1024	00	66 47 28.2	—19.454	—127	0.0	74.0	6	706
5694		9.0	3 54.97	3.2734	— 216		31 50 15.4	—19.457	—107		14.7	2	2238
5699		6.8	5 43.93	3.3043	— 258	—2.06	36 29 54.3	—19.495	—104	—16.3	87.2, 83.2	5	2162
5700		(9.5)	6 8.38	3.3416	— 307	— 17	40 51 51.1	—19.503	—105	— 2.5	62.4	3	2207
5704		6.8	6 32.79	3.2816	— 235	—1.07	34 7 31.2	—19.511	—102	— 6.2	95.4, 94.8	6	2206
5705		6.5	6 44.34	3.3472	— 317	— 17	41 46 4.7	—19.515	—104	0.0	80.0, 77.7	9. 10	2170
5706	B	(7.5)	6 60.13	4.1516	—1758	—10.02	74 9 6.1	—19.521	—130	+10.8	80.2, 86.2	14, 12	456a
5706	A	7.2	58.02	4.1523	—1758	—10.02	5.9	—19.520	—130	+10.8	74.2, 76.5	19. 15	456
5707		6.9	7			—2.72	20			—14.7	B 2967		2572
5711		9.0	7 50.80	3.1598	— 99		16 11 42.1	—19.537	— 96		67.1, 66.9	2	2235
5714		8.1	8 11.67	3.3085	— 275	— 06	38 15 33.4	—19.544	—100	+ 0.6	91.0, 90.5	6	2219
5715		8.9	8 12.48	3.6008	— 702	— 55	60 27 35.6	—19.544	—109	0.0	73.4	4	1316
5719		7.4	8 26.01	3.4055	— 407		48 9 36.7	—19.549	—103		85.3, 85.6	3	1925
5721	B	(8.5)	8 35.89	3.3859	— 380	— 64	46 31 51.5	—19.552	—101	0.0	75.0, 74.7	5	1707
5721	A	(8.3)	43.42	3.3852	— 380	— 19	32 8.4	—19.554	—101	0.0	83.0, 82.6	6, 5	1708
5722	B	(7.8)	8 51.51	3.4714	— 506	+1.35	53 27 20.8	—19.557	—104	+ 4.8	76.0,75.3(B2977)	6	1480
5722	A	6.3	51.82	3.4714	— 506	+1.83	27 8.1	—19.557	—104	+ 6.0	69.8,75.0(C2077)	15, 14	1480
5725		8.9	9 42.06	3.0838	— 20	00	2 16 5.5	—19.573	— 90	0.0	69.4	5	2408
5726		8.7	9 43.52:	3.2276	— 181	— 27:	28 6 11.4	—19.574	— 94		85.7	3	1981
5727		(8.9)	9 43.50:	3.3428	— 329		42 55 29.7	—19.574	— 98		75.3	2	2099
5733		7.1	11 6.67	3.7511	—1020	— 76	67 22 1.6	—19.600	—107	0.0	80.6, 77.8	6	691
5734		4.4	11			—2.81	32			—59.6	B 2984		2132
5738		(9.0)	12 13.83:	3.0892	— 25	— 91:	3 30 20.4:	—19.620	— 85	—14.7	94.5, 93.5	4	2482
5739	A	6.6	12 26.99	3.1458	— 89	+ 36	14 57 25.1	—19.624	— 86	—17.1	78.2, 76.2	11	2321
5739	B	(8.1)	27.00	3.1458	— 89	+ 50	57 28.7	—19.624	— 86	—17.9	84.3, 82.9	3	2321
5740		8.9	12 30.12	3.3794	— 400		48 9 13.1	—19.625	— 93	0.0	75.0	4	1932
5747		9.3	13 10.61	3.1082	— 47		7 33 6.5	—19.637	— 84	—14.9	72.3, 77.5	4, 5	2436
5750		(8.5)	14 6.51	3.1882	— 144	— 19	23 33 53.5	—19.654	— 84	— 1.2	77.0	4	2336
5757		8.1	15			—1.08	18			— 9.8	C 2049		2443
5758		(9.0)	15 19.65	3.2729	— 263	+ 19	37 46 24.8	—19.675	— 84	— 4.3	82.4, 78.9	5	2176
5760		9.0	15 34.35	3.6349	— 883		65 24 11.7	—19.679	— 93		88.2	2	829
5762		8.6	16 29.74	3.0793	— 13	— 27	1 36 44.3	—19.694	— 76		84.8, 75.0	3	2556
5765		4.0	17			+1.05	11			— 8.5	B 2999		2348
5769		(8.6)	17 47.35	3.1372	— 86	— 67	14 51 14.4	—19.715	— 75	+ 2.2	81.3, 81.8	4	2383
5770		8.2	18 54.06	3.1675	— 126	00	21 18 25.9	—19.717	— 76	0.0	80.0, 73.0	9, 10	2314
5774		9.3	18 57.92	3.3542	— 417		49 49 37.9	—19.734	— 79		81.1	3	2051
5775		5.6	19			—0.99	17			— 2.3	B 3008		2356
5777		(9.0)	19 11.77:	3.1969	— 171	— 40:	27 45 31.8	—19.737	— 74	— 4.7:	96.6	2	2020
5779		6.2	20 25.70	3.0871	— 22	—4.81	3 41 38.8	—19.756	— 69	+17.8	75.5,76.6(B3014-15)	9	2502
5781		7.8	20 47.66	3.3162	— 369	+ 18	46 59 0.2	—19.762	— 74	— 8.3	77.5, 60.2	4	+1873
5785		6.9	21 7.82	3.2999	— 345	—1.29	45 15 13.0	—19.767	— 73	0.0	85.8, 84.8	7, 6	1927
5787	B	9.5	21 1.82			+ 96:	81 43 41.7			+ 2.4:	81.0	3	370
5787	A	8.1	21 7.91			+2.03	43 28.0			— 5.3	72.0, 72.3	7	371
5789		(8.5)	21 28.81	3.2407	— 249	— 58	36 59 11.5	—19.772	— 71		11.2, 11.5	4	2181
5793		5.3	22 19.91	3.2560	— 280	— 48	40 1 28.7	—19.784	— 69	+ 1.8	71.1, 72.8	20, 19	2433
5794		7.1	22 39.75	3.2032	— 196	00	31 7 3.3	—19.789	— 67	—12.7	97.5	7	2270

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Praec.	Var. saec.	E. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5801	A	(6.8)	23 26.94	+3.1981	— 191	—0.89	30 39 36.5	—19.800	—66	—20.0	94.2, 92.9	10, 12	2163
5801	B	(9.0)	23 29.64	3.1981	— 191		30 40 30.4	—19.801	—65		79.4, 83.0	3, 2	2164
5803		8.5	23 33.58	3.0867	— 22	— 40	3 53 42.2	—19.801	—63	0.0	73.6, 74.6	5	2482
5805		7.0	24 3.71	3.2601	— 300	+ 82	41 58 45.2	—19.808	—66	—11.0	84.2, 86.1	7, 8	2214
5806		6.8	24 13.69	3.4379	— 645	00	60 23 23.8	—19.810	—70	0.0	66.4	6, 5	1330
5808		8.3	24 36.15	3.1826	— 171	— 49	28 13 30.9	—19.815	—63	+ 1.4	94.3, 84.0	3, 4	2012
5809		(9.5)	25 7.54	3.2225	— 241	— 46	36 33 16.9	—19.822	—62		11.9, 14.4	3, 4	2196
5810		7.9	25 12.99	3.1026	— 46	— 36	8 33 11.0	—19.824	—60	0.0	73.8, 72.1	9, 8	2515
5811		5.5	25			— 05	61			— 7.9	B 3033		1246
5812		6.2	25			—2.30	15			—19.6	B 3032		2345
5813		7.9	25 25.80	3.3790	— 543	—3.12	56 46 57.0	—19.827	—66	+ 6.9	79.9	5	1523
13215		6.6	25 31.82	3.2228	— 245	— 36	36 56 17.4	—19.828	—62	— 5.3	07.5, 11.6	3	+2192
5819	A	9.1	26 2.69	3.1643	— 147	00	25 0 53.2	—19.835	—60	— 8.4	89.8, 87.4	10, 11	2389
5819	B	(9.5)	3.64	3.1643	— 147		0 45.6	—19.835	—60		82.3	2	2389
5822		8.8	26 23.10	3.3063	— 409		50 8 47.7	—18.839	—62		67.2	2	1835
5829		8.9	27 55.41	3.1733	— 170	— 46	28 27 31.4	—19.858	—56	+ 1.6	89.4	3	2016
5830		8.8	27 54.29	3.6298	—1204	— 56	71 29 37.1	—19.858	—66	0.0	77.3, 80.1	6	576
5833		5.8	28			— 07	17			— 0.4	B 3045		2374
5835		9.3	28 20.45	3.0793	— 10		2 11 14.3	—19.863	—53		55.3	2	2449
13216		8.4	28 33.85	3.2055		— 12	36 5 48.2			0.0	06.7, 94.9	5, 6	2198
5837		8.1	29 3.98	3.4968	— 892		67 2 5.3	—19.872	—60	+ 6.0	75.7	4	709
5840		8.7	29 38.78	3.1148	— 71	— 82	13 32 45.7	—19.879	—51	0.0	68.9, 68.2	5, 6	2433
5841		5.8	29			+ 22	28			— 2.0	B 3052		2022
5842	A	7.4	29 44.82	3.3414	— 531	—2.31	56 49 47.0	—19.880	—56	— 9.7	80.0	9	1529
5842	B	(7.8)	44.76	3.3414	— 531	—1.78	49 40.8	—19.880	—56	— 9.3	98.1	5	1529
5843		9.3	29 49.40	3.1122	— 67	— 67	12 49 15.8	—19.881	—51		87.4	2	2350
5846	C	(8.8)	30 6.87:	3.1431	— 124	— 38:	22 9 49.6:	—19.884	—51		92.9, 00.0	4, 3	2379
5846	AB	9.7	9.99	3.1429	— 124	— 21	22 9 46.1	—19.885	—51	— 5.6	82.6	5	2381
5851		8.0	31 5.57	3.2763	— 405	00	50 30 6.3	—19.895	—52		92.5, 17.2	5, 3	1845
5854	GB		31 46.83	3.4250	— 781	00	65 2 20.0	—19.902	—53	0.0	69.6, 74.3	6, 7	843
5854	ma	6.4	46.77	3.4250	— 781	00	2 19.3	—19.902	—53	0.0	66.5	4	843
5857		(7.0)	32 11.11	3.2074	— 267	— 03	39 51 51.7	—19.907	—48	+ 1.9	94.5, 94.8	3	2460
5858	B	(8.0)	32 8.74	3.2389	— 335	—5.70	45 47 58.3	—19.906	—49	— 1.7	85.4, 83.1	10, 9	1947
5858	A	6.3		3.2388	— 335	—5.56		—19.906	—49	+ 1.9	B 3069		1947
5859		8.2	32 18.36	3.2165	— 288	— 88	41 50 10.0	—19.908	—48	— 3.2	79.8	5	2219
5863		(9.1)	32 54.85	3.0912	— 32		6 51 29.7	—19.914	—45		80.8, 80.5	2	2479
5864		8.0	32 57.01	3.1490	— 148	—1.02	25 59 43.0	—19.915	—45	— 4.6	92.6, 80.3	2, 3	2241
5865		(8.0)	33 0.93	3.1357	— 121	— 12	22 0 18.4	—19.915	—45	0.0	65.1, 68.5	6, 5	2387
5866	A	8.2	33 4.82	3.1543	— 160	00	27 38 56.4	—19.916	—46	0.0	68.5, 68.3	5	2044
5866	B	(9.0)	5.24	3.1543	— 160		56.5	—19.916	—46		80.7, 88.3	2	2044
5867	B	8.9	33 5.51:	3.1283	— 106	— 15:	19 41 32.8	—19.916	—45	0.0	72.2, 69.4	10	2482
5867	A	7.0	6.82	3.1282	— 106	— 41	41 20.9	—19.916	—45	0.0	78.4, 73.9	6, 7	2483
5868		8.8	33 16.45	3.1581	— 169	— 86	28 52 16.5	—19.918	—45		95.3	3	2026
5874		8.0	34 8.23	3.1322	— 119	— 15	21 43 47.0	—19.927	—43	— 3.7	68.4	5	2342
5881		9.3	35 16.26	3.0812	— 14		3 33 49.5	—19.938	—40		94.7	4	2535
5882		8.7	35 36.61	3.1929	— 267		40 21 16.9	—19.941	—41	— 6.1	00.9, 03.5	3, 4	2451
5884		8.8	36 3.16	3.3719	— 759	+ 46	65 2 54.5	—19.945	—43	0.0	70.6	4	847
13217		8.2	36 20.53	3.1273	— 118	+ 88	21 46 27.6	—19.947	—38		97.8	3	2345
13218		9.0	36 32.30	3.1788	— 242	— 56	37 56 21.5	—19.949	—39	0.0	03.6, 06.4	5	2271
5885		8.5	36 52.37	3.0756	— 2	— 16	1 27 18.1	—19.952	—37	— 4.0	88.1	4	2604

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Prac.	Var. saec.	B. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. Z.	B. D. Nr.
			m s	s		s	° ′ ″	″		″			
5888		8.5	37 8.44	+3.0991	— 55	—0.23	11 23 19.3	—19.955	—37	— 2.7	79.3, 79.6	3	2393
5892		(9.0)	37 16.13	3.1058	— 71		14 12 53.5	—19.956	—36		01.8	2	2427
5893		7.5	37 16.70	3.1331	— 136	00	24 42 14.3	—19.956	—37	0.0	82.8, 79.4	13, 15	2386
5894		8.8	37 42.89	3.1800	— 258	+ 03	39 42 2.4	—19.960	—37	+ 0.5	78.7, 78.8	6	2465
5897		(9.3)	38 3.03	3.1072	— 77	— 67	15 18 9.2	—19.962	—35	— 3.8	96.6	3	2372
5901		8.0	38 54.82	3.2008	— 331	00	46 17 49.8	—19.969	—34	+ 1.2	74.6	4	1744
5906		9.1	39 56.09	3.0924	— 44	+ 50	9 46 10.3	—19.977	—31	— 7.4	82.1	4	2547
5911		8.6	40 20.90	3.2297	— 444	— 32	53 58 50.6	—19.981	—32	— 4.6	73.4	4	1464
5912		7.9	40 23.20	3.1044	— 78	+ 10	15 41 45.0	—19.981	—30	+ 4.6	72.6, 58.1	4, 5	2378
5915		(7.8)	41 0.00	3.1141	— 108		20 43 37.7	—19.985	—29		84.8	4	2650
5917		7.0	41 12.64	3.2051	— 385		50 31 1.50	—19.987	—30	0.0	95.1, 80.2	5, 9	1862
5918		8.2	41 15.86	3.1868	— 328		46 22 45.4	—19.987	—29		93.6	2	1746
5919		5.2	41			— 34	8			+ 0.1	B 3097		+2549
5921		(4.5)	41			—1.10	20			— 2.0	B 3098		2358
5926		5.9	42			— 76	14			+ 1.4	S 4531		+2381
5927	A	7.2	42 20.80	3.3272	— 853	00	68 1 23.8	—19.995	—29	0.0	70.0, 77.6	7, 6	662
5927	B	(7.6)	20.95	3.3272	— 853		1 12.2	—19.995	—29		01.0, 87.4	2, 4	662
5928		9.1	42 24.60	3.1424	— 204		34 23 45.3	—19.995	—27		06.1	2	2259
5929		2.2	42			—3.42	15			—12.3	B 3101		2383
13219		9.0	44 29.60	3.1418	— 230	+ 12	37 35 9.1	—20.008	—23	— 6.2	95.4, 96.2	5	2219
5935		6.2	44			— 73	12			0.0	S 4543		+2465
5936		9.4	44 41.90	3.1607	— 303	— 16	44 46 39.2	—20.010	—22	— 8.1	65.6	3	2136
5940		(8.6)	45 4.46	3.3510	—1120		72 39 57.2	—20.012	—23		98.2, 96.7	3	549
5942		8.6	45 27.30	3.1690	— 351		48 46 55.3	—20.014	—21		63.0	2	1978
5944	B	8.7	45 31.11	3.0864	— 40		9 31 11.4	—20.014	—20	— 8.5	86.1, 84.8	4	2552
5944	A	8.1	32.12	3.0864	— 40	— 15	31 37.6	—20.014	—20	— 5.8	64.6, 66.2	5	2553
5946		(8.5)	45 36.25	3.1041	— 98	— 88	19 33 5.3	—20.009	—22		87.7, 76.4	2, 3	2510
5948		9.1	45 59.13	3.0841	— 32		8 14 25.9	—20.017	—19		82.3	2	2548
5948		9.0	59.18	3.0841	— 32		14 43.8	—20.017	—19		82.2	2	2548
5949		(7.0)	46			+ 27	16			— 6.4	B 3114		2307
5950	B	(8.5)	46 24.10	3.1209	— 178		31 31 16.4	—20.019	—18		93.0	2	2307
5950	A	8.0	46 24.51	3.1209	— 178	— 48	31 18.8	—20.019	—18	0.0	76.5, 73.2	5, 6	2307
5951		6.8	46 55.63	3.3462	—1252	—1.35	74 27 18.3	—20.022	—19	— 8.2	94.2, 93.1	3	476
5952		9.0	46 53.01	3.1016	— 105	00	21 0 53.4	—20.021	—17	0.0	82.7	5	2371
5954		9.5	47			— 49	4		0.0	— 2.3	C 2172	6	2536
5955		7.9	47 7.19:	3.1438	— 286	+ 17:	43 36 42.7	—20.023	—17	— 3.0	82.6, 88.6	6, 7	2165
5957		7.5	47 21.19	3.3078	—1089	—2.31	72 37 12.9	—20.024	—18	— 3.8	90.6	3	550
5959	B	(8.9)	47 40.61	3.1063	— 133	— 66	25 23 9.4	—20.025	—16		93.6	2	2430
5959	A	(8.8)	41.66	3.1063	— 133	— 78	22 45.4	—20.025	—16		94.1	2	2430
5960		8.0	48			—3.15	20			— 2.8	C 2172		2658
5962	A	6.5	48			+ 06	47			— 0.7	B 3120		1913
5962	C	8.3				+ 15	47			— 1.9	B 3122		1914
5964		(8.7)	49 4.00	3.0795	— 22	— 46	6 30 55.0	—20.031	—13	0.0	79.0, 79.6	11, 10	2525
5965		8.7	49 5.25			— 05	4 14 20.8			0.0	78.4, 71.8	5, 6	2546
5967		5.5	49			+ 17	16			— 0.7	B 3123		2319
5968	A	8.0	49 35.15	3.0976	— 114	— 40	22 40 40.2	—20.034	—12	0.0	73.3, 68.7	7, 8	2421
5968	B	(9.2)	36.04	3.0976	— 114	— 77	40 42.7	—20.034	—12		97.7	3	2421
5969		9.5	49 37.04	3.1355	— 312	00	46 14 29.6	—20.034	—12	— 3.2	64.8, 59.8	3, 4	1759
5970		6.6	49 50.39	3.1155	— 211	— 66	36 8 36.2	—20.035	—11	+ 2.4	89.5, 81.5	13, 12	2225
5971		8.8	50 12.71	3.1 231	— 262	— 42	41 43 17.9	—20.036	—11	— 3.4	71.8, 72.8	6, 5	2250

Bu.-Nr.	Komp.	Gr.	A. R. 1875	Prac.	Var. saec.	B. B. saec.	Dekl. 1875	Praec.	Var. saec.	E. B. saec.	Ep.	Kat. U.	B. D. Nr.
			m s	s			° ′ ″	″					
5974		6.3	50 19.61	+3.1087	— 184	s	32 53 56.2	—20.036	—11	″	85.2	3	2172
5975		8.3	50 26.13	3.1208	— 255	—0.26	41 3 5.8	—20.037	—10	0.0	70.2, 74.7	7	2251
13220		8.7	51 28.23	3.0962	— 132	— 47	25 39 43.3	—20.040	— 8	+ 2.2	94.3	2	2441
5980		8.8	51 34.57	3.1282	— 339		48 44 15.6	—20.041	— 8		60.2	2	1988
5983		6.0	52 51.50:	3.1002	— 189	+1.57:	33 51 47.2	—20.045	— 5		78.9, 79.5	5, 6	2176
5985		8.7	53			+ 80	21			+ 1.0	C 2192		2379
5988		8.6	53 21.84	3.1258	— 412	— 65	54 5 39.4	—20.046	— 5	0.0	82.7	5	1482
5990	A	7.9	53 35.02	3.1832	— 934		71 21 21.0	—20.046	— 4		80.3, 86.5	4	595
5990	C	(8.0)	38.43:	3.1821	— 933	— 54:	20 51.6	—20.047	— 4		82.8	3	596
5992		(8.7)	53 42.86	3.0908	— 136	— 46	26 44 26.2	—20.047	— 4	— 4.9	80.6	3	2282
5993		(7.8)	53 44.23	3.1002	— 217	+ 05	37 25 32.2	—20.047	— 4	+ 1.2	83.6, 82.8	6	2238
5996		8.9	54 10.41	3.1054	— 282		44 19 2.9	—20.048	— 3		65.9	3	2146
13221		7.3	54 57.49	3.0785	— 48	— 20	12 1 13.6	—20.049	— 1		73.0	3	+2413
6004		7.4	55 10.73	3.1565	— 928	— 35	71 32 43.7	—20.050	— 1	0.0	75.4, 76.6	6	599
6005	B	(8.7)	55 33.01	+3.0726	+ 12	0.0	0 46 41.5	—20.051	0	— 1.6	75.0, 02.9	4	2881
6005	A	(8.3)	55 33.20	3.0726	+ 12	— 33	0 47 56.5	—20.051	0	— 4.4	04.2, 04.8	4	2880
6006		9.1	55 49.10	3.1523	—1015	00	73 3 28.4	—20.051	0	0.0	80.0	5	543
6007		9.0	56 5.46	3.0817	— 107	— 57	22 26 35.0	—20.051	+ 1		99.2	3	2434
6011		(8.8)	56 31.80	3.0829	— 141		27 42 11.4	—20.052	+ 2		93.6	2	2087
6012		9.2	57 4.82	3.0876	— 257	— 29	42 6 4.0	—20.053	+ 3	— 0.9	74.7	4	2267
6015		9.0	57 20.83	3.0797	— 128	— 54	25 48 10.2	—20.053	+ 4	— 1.7	89.5	3	2453
6016		8.4	57 48.58	3.0782	— 121	— 34	24 48 56.0	—20.053	+ 4	0.0	79.6, 74.7	5, 6	2422
6018		5.8	57			+ 30	22			— 1.2	B 3150		2437
6019		(8.5)	57 54.45	3.0740	— 25	00	8 5 45.0	—20.053	+ 4	0.0	59.8	6	2566
6023		(7.8)	59 0.95	3.0769	— 227		39 21 13.0	—20.054	+ 7	— 2.3	02.7, 93.6	4	2492
6025		7.0	59 12.42	3.0783	— 374	+ 52	52 37 38.2	—20.054	+ 7	0.0	47.7, 57.4	6	1608
6026		7.9	59 13.75	3.0783	— 388	— 56	53 34 14.2	—20.054	+ 7	0.0	77.6, 73.9	4	1525
6027		7.6	59 14.24	3.0841	— 785		69 29 27.6	—20.054	+ 7		90.5	4	642
6028		7.1	59 43.07	3.0766	— 778		69 23 44.6	—20.054	+ 8	— 4.7	88.3	4	644
6030		8.5	59 46.47	3.0733	— 228	— 41	39 31 35.9	—20.054	+ 8	— 4.7	78.9	5	2493