

# Opera Mathematica, Tomus Quintus — continens Romani Calendarii a Gregorio XIII P.M. restituti Explicationem; Novi Calendarii Romani Apologiam adversus Michaellem Maestlinum; ac Appendicem — Editorial footnotes (draft)

*Christoph Clavius (1538–1612), S.J.*. Drafted editorial footnotes for review before publication. Each note is keyed to its anchor in the **manuscript-grade complete edition** — the collated output that retains the per-batch/page scaffolding the anchors reference (produced by `ms`). The reading in the main text is **preserved as printed/transcribed** and is not altered by these notes. The note text below is a **draft** — review and edit before publication.

The notes are classified as follows:

- **Category B — source compositor error.** A printing, compositor, or scribal error in the source itself (a wrong letter or digit, a dropped or doubled word, a non-resolving citation). The likely intended reading is noted, but the main text preserves exactly what is printed.
- **Category C — author/source anomaly.** An anomaly originating with the author or the source rather than the typesetting (a factual or geographic slip, a misattribution, an internal inconsistency, or a deliberate but unusual feature). Recorded as written.

| # | Anchor                                                                                                 | Cat. | Item                                                                                             |
|---|--------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------|
| 1 | batch_007 / p.21, Calendarium Ecclesiasticum, January and March blocks, Cyclus Epact. column, day 31   | C    | Epact column repeats xxix at day 31, duplicating the day-2 value and breaking its descending run |
| 2 | batch_011 / p.31, dating clause of the bull Inter gravissimas                                          | C    | Bull dated M. D. LXXXI. (1581) while the attestation below dates the posting to 1 March 1582     |
| 3 | batch_012 / p.34, Tabella Epactarum ante Calendarij correctionem, epact row, column of golden number 7 | B    | Epact printed xxvii where the row's own +11 progression requires xvii                            |

| #  | Anchor                                                                                                                         | Cat. | Item                                                                                                 |
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| 4  | batch_014 / p.41, table of the equation, third block, row II of the sixth three-row group                                      | B    | Year printed 21800 where the column's strict +100 progression requires 11800                         |
| 5  | batch_016 / p.48, Tabella temporaria, row 1597, Pentecostes column                                                             | B    | Pentecost printed 25 Iunij where the row's own Easter reckoning requires 25 Maij                     |
| 6  | batch_017 / p.49, Tabula Paschalis antiqua reformata, 32nd date row (dominical letter g, Septuagesima 18), Dies Cinerum column | B    | Ash Wednesday prints 6, repeating the row above, where the column's step of one requires 7           |
| 7  | batch_017 / p.50, Cyclus Epactarum, blocks G, B, F and A (four cells)                                                          | B    | Four epact cells duplicate values already standing in their block while the required epact is absent |
| 8  | batch_017 / p.50, block B, third row, fourth and fifth epact cells                                                             | B    | Epacts print vj then vij — 6 before 7 — against the descending order of every other row              |
| 9  | batch_017 / p.51, Tabula Paschalis, fourth group (letter G), first row, Pentecostes column                                     | B    | Pentecost printed 15 Maij against Easter 25 March and Trinity 20 May, which require 13 May           |
| 10 | batch_022 / pp.64–65, calendar of saints, 15 October                                                                           | B    | The October table omits Marcellus, one of the four martyrs the facing prose names                    |
| 11 | batch_025 / printed p.59, table of ancient Easters, right panel, last row (A.D. 604), Pascha column                            | B    | Easter printed 12 M — 12 March, earlier than the earliest possible Paschal date                      |
| 12 | batch_025 / printed p.59, prose introducing the table                                                                          | B    | Clavius says he collected 157 years where the same page twice gives 175                              |
| 13 | batch_026 / p.76, table of ancient Easters, Anni Domini columns                                                                | B    | Three years out of sequence: 1183 for 1383, 2414 for 1414, 0021 for 1021                             |
| 14 | batch_029 / printed p.69, Caput V, opening paragraph, second run                                                               | B    | Centesimal run printed 2160. 2200. 2300. where the sequence                                          |

| #  | Anchor                                                                                                   | Cat. | Item                                                                                                                                |
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|    | of centesimal years                                                                                      |      | requires 2100                                                                                                                       |
| 15 | batch_033 / printed p.82, body, list of example bissextile years                                         | B    | List prints 1584. 1596. 1512, contradicting the 1612 given three sentences earlier                                                  |
| 16 | batch_033 / printed p.83 and passim, running headers of the Explicatio, Apologia and Refutatio           | C    | Stale and wrong running headers recur throughout the volume, naming chapters and books the text beneath has left or not yet reached |
| 17 | batch_034 / printed p.86, §3, attribution of the 76-year period                                          | C    | Clavius's ideoque credits Hipparchus's adoption for the period's being called Callippic                                             |
| 18 | batch_036 / p.107, Calendarium, Maius, day-reckoning column, row 30                                      | B    | Kalends count prints ij where 30 May requires iij (3 Kal. Iun.)                                                                     |
| 19 | batch_036 / pp.106 and 108, standing head over the Calendarium Ecclesiasticum                            | C    | Standing head reads CALEND. GREGOR. above tables that are the pre-Gregorian calendar                                                |
| 20 | batch_038 / pp.113 and 114, Iulius and October tables, Dies Mensis column, twelfth day-row               | B    | Both tables print 22 for day 12 between 11 and 13 — the same fault twice                                                            |
| 21 | batch_040 / p.118, §5 final sentence and the third marginal note                                         | B    | Epact printed xxiii in body and margin where the argument requires xxiiii                                                           |
| 22 | batch_041 / p.122, §4, equation table, letter P against the year 320                                     | C    | Clavius dates Nicaea to about 325 but sets his equation table's letter P against 320                                                |
| 23 | batch_043 / printed p.112, table of the equation, Panel 3, first group (years 9400–9700)                 | B    | Biss. and the doubled crescent both set one row low, leaving the /400 year 9600 empty                                               |
| 24 | batch_044 / printed pp.115–131, the Dies omissi column of the great equation table (and batches 045–049) | B    | Seven digit-substitution faults in the Dies omissi column, each breaking a column that is otherwise monotone across all nine panels |

| #  | Anchor                                                                                    | Cat. | Item                                                                                                                            |
|----|-------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------|
| 25 | batch_044 / printed p.115, panel 1, year 49300, lunar column                              | B    | Doubled lunar mark set with reversed (waxing) crescent sorts                                                                    |
| 26 | batch_048 / printed pp.126 and 127, panel 2, groups 224200–224500 and 241000–241300       | B    | Biss. and the lunar sort interchanged between rows in two four-row groups, putting Biss. on non-bissextile years                |
| 27 | batch_050 / printed p.134, Anni Domini table (nine cells)                                 | B    | Nine cells break the table's own +19 (row) and +228 (column) rule, each bracketed by correct neighbours                         |
| 28 | batch_051 / p.151, twelve-column table, row beginning 10717, column 9                     | B    | 10888 printed for 10869, and the compositor continued from the wrong value, so the remainder of the page runs a uniform +19 off |
| 29 | batch_051 / p.151 (rows 10964, 11192, 14840) and p.153, lower block, row O                | B    | Four isolated digit substitutions, each corrected by the compositor at the very next cell                                       |
| 30 | batch_052 / p.138, centennial table, upper block, row E (golden number ij), year-column 8 | B    | Printed 27300 where both the column and the row require 97300                                                                   |
| 31 | batch_053 / p.142, Cyclus Epactarum perpetuus, first panel, cell under the index letter M | B    | Epact printed xviiij where the cycle and the standard index-M epact require xxviiij                                             |
| 32 | batch_054 / p.160, Amplius worked example (year 590600)                                   | B    | Product of $28 \times 13$ printed as 304 where it is 364                                                                        |
| 33 | batch_054 / p.162, Idem assequemur paragraph (year 671600)                                | B    | Divisor printed 25 where the computation requires 2500                                                                          |
| 34 | batch_055 / printed p.148, Tabula prior, third column-pair, argument column rows 1–3      | B    | Argument value 9700 set three times where the +100 series requires 9700 / 9800 / 9900                                           |
| 35 | batch_056 / p.152, sixth band, day-number row, twelfth cell                               | B    | Day number printed 298 where the continuous day-count requires 268                                                              |
| 36 | batch_057 / p.154, the POSTREMO                                                           | B    | Two letters of the compendium                                                                                                   |

| #  | Anchor                                                                                         | Cat. | Item                                                                                              |
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|    | and VT quoque facilius worked examples                                                         |      | mis-sited by a transposed digit, each contradicted by a statement on the same page                |
| 37 | batch_059 / p.176, table III (A.D. 800–1099), first strip, column of golden number 4           | B    | Epact printed ij where the +11 rule requires xij between 1 and 23                                 |
| 38 | batch_059 / p.176, table IIII (A.D. 1100–1399), foot strip of starting years                   | B    | Starting-year strip prints 1204 where the uniform +19 series requires 1214                        |
| 39 | batch_059 / p.176, table V (A.D. 1400 – 4 Oct. 1582), second strip, column of golden number 13 | B    | Epact printed xxiiij where the step of 11 from xij requires xxiiij                                |
| 40 | batch_060 / printed p.163, table XVII, foot strip, cells 6–10                                  | B    | Foot strip carries five years (3719–3795) belonging to table XIX, outside table XVII's own span   |
| 41 | batch_060 / printed p.164, table XXII, first foot row, eleventh cell                           | B    | Printed 4490 breaks the +19 series and exceeds the cell that follows it                           |
| 42 | batch_062 / p.185, Reuolutiones Nouiluniorum (Coniunctiones), row 9, D column                  | B    | Printed 256 breaks the ~29½-day progression; the row's own hours, minutes and seconds require 265 |
| 43 | batch_062 / p.184, Num. 2, enumeration of bissextile years                                     | B    | The list of multiples of four omits 8: anni 4. 12. 16. 20. & reliqui                              |
| 44 | batch_062 / p.184, Num. 1, marginal cross-reference                                            | C    | Marginal cross-reference cap. 25. & 26. disagrees by one chapter with the body's cap. 26. & 27.   |
| 45 | batch_063 / p.189, Revolutiones Noviluniorum, panel 2, row 17, Dies column                     | B    | Printed 23032862 breaks the column's own series at the fourth digit                               |
| 46 | batch_063 / p.189, §5, the anticipation over 76 years                                          | C    | The same quantity is given as sec. 11 at the head of the section and sec. 14 at its close         |
| 47 | batch_065 / printed p.178, first Anni Subtrahe panel, rank 10                                  | B    | Printed 2162 where the column requires 2262                                                       |

| #  | Anchor                                                                                            | Cat. | Item                                                                                                                       |
|----|---------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------|
| 48 | batch_070 / printed p.192, first Anni Subtrahe panel, Ordines index column                        | B    | Index figure printed 39 between 28 and 30 where the sequence requires 29                                                   |
| 49 | batch_080 / printed p.223, Menses block, row F (February), D column                               | B    | Day printed 15, breaking the descending column; the row's own hours and minutes require 19                                 |
| 50 | batch_080 / printed p.223, Menses block, row I (January), S column                                | B    | Seconds printed 18 where the column's constant step of 3 requires 8                                                        |
| 51 | batch_090 / p.270, QVOD-si paragraph (year 9151), Die Martij and Die Maij                         | B    | Min. 24 printed where both the input value and the stated result require Min. 44                                           |
| 52 | batch_106 / p.301, Caput XV Tabulae leaf, golden-number grid, column D                            | B    | Column D prints xix at day 31 but stands blank at day 1, breaking the leaf's own doubling rule                             |
| 53 | batch_107 / p.305, lunation table, Aureus Numerus 1 row, Magnitudo column                         | B    | The row's twelve lunation lengths sum to 353 against a printed Magnitudo of 354                                            |
| 54 | batch_107 / Caput XVI table, golden numbers 1 and 2, epact column                                 | C    | The epact of golden number 1 is viij, not the +11 cascade value vij — the saltus the chapter describes                     |
| 55 | batch_108 / p.306, Cycle N table, Golden No. 1 (saltus) row, first lunation                       | B    | Saltus row is headed Length 353 but its lunation cells sum to 354                                                          |
| 56 | batch_108 / p.307, Cycle M table, Golden No. 5 row, end of the twelfth and thirteenth months      | B    | Twelfth and thirteenth lunar months both printed as ending 30 Dec., which is impossible                                    |
| 57 | batch_110 / printed folios 310, 317, 388, 338, 478 (Explicatio, Caput XV gathering and following) | B    | The foliation of the Caput XV gathering and of the later Explicatio is erratic: five leaf-numbers misprinted or duplicated |
| 58 | batch_122 / p.348, Magini's table,                                                                | B    | Year printed 1567 between 1597                                                                                             |

| #  | Anchor                                                                                     | Cat. | Item                                                                                                                       |
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|    | right panel, row 13, year column                                                           |      | Aug. and 1597 Octob.                                                                                                       |
| 59 | batch_122 / p.350, prose list of exemplary years against the accompanying table            | B    | Prose cites the years 326, 346, 475 and 496 while the table's last row prints 495                                          |
| 60 | batch_124 / p.355, §5, marginal note Nouilunium non Paschale 6. diei Aprilis               | C    | Margin gives 6 April as the date that becomes Paschal where the body makes it 5 April                                      |
| 61 | batch_124 / p.356, upper marginal note Lunam xv.                                           | B    | Marginal note reads Lunam xv. against a body that reads Lunam xiiij. throughout                                            |
| 62 | batch_132 / p.378, Tabula Festorum Mobilium, Dominica prima Aduent. column, keys 2 and 3   | B    | Advent column prints 9 at key 2 and 23 at key 3, both outside the 27 Nov.–3 Dec. window                                    |
| 63 | batch_132 / p.380, Tabula Festorum Mobilium, Dies Cinerum column, A.D. 1638 and 1639       | B    | The Ash Wednesday dates of 1638 and 1639 are exchanged between the two rows                                                |
| 64 | batch_133 / folios 381 and 383 and passim, Tabula Festorum Mobilium, Corpus Christi column | B    | Recurring compositor month-slip: Corpus Christi set in June where Pentecost + 11 places it in May                          |
| 65 | batch_136 / folios 386, 388, 408 and 430, Tabula Festorum Mobilium, Septuagesima column    | B    | Recurring Septuagesima month-slip: Ian. set as Iun. or Feb. in four rows, each computus-impossible                         |
| 66 | batch_136 / folio 407, A.D. 1906, old-Calendar Easter column                               | B    | Old-calendar Easter prints 12 A, impossible against the same row's Luna 14 of 30 M                                         |
| 67 | batch_139 / folio 401, Tabula Festorum Mobilium, Diff. column, rows 2168 and 2213/2214     | B    | Diff. prints 53, impossible for a column confined to 0, 7, 28 and 35; and 35 and 7 are exchanged between two adjacent rows |
| 68 | batch_141 / folios 405–407, rows 2316, 2338, 2356 and 2362                                 | B    | Four cells confirmed as printed and demonstrably corrupt; no correction is proposed for any of                             |

| #  | Anchor                                                                                                    | Cat. | Item                                                                                                     |
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|    |                                                                                                           |      | them                                                                                                     |
| 69 | batch_151 / p.435, Tabula Festorum Mobilium, A.D. 3121, Diff. column                                      | B    | Diff. cell prints 2 in a column that can hold only multiples of seven                                    |
| 70 | batch_151 / p.435, Tabula Festorum Mobilium, A.D. 3159, Corpus Domini column                              | B    | Corpus Domini prints 18 Maij where the row's Pentecost of 17 Maij requires 28 Maij                       |
| 71 | batch_157 / printed pp.453–455, Tabula Festorum Mobilium, Easter and Luna 14 columns                      | B    | Six cells in one opening carry month-slips and a dropped tens-digit, each contradicted by its own row    |
| 72 | batch_162 / folios 468 and 470, A.D. 4118 and 4175, Pascha and Ascensio                                   | B    | Two rows print a March Easter beside a fourteenth moon of 18 April, with matching wrong Ascension months |
| 73 | batch_167 / p.500, Tabula Festorum Mobilium, Septuagesima and Easter columns, A.D. 4525, 4537, 4563, 4566 | B    | Four rows print Septuagesima and Easter dates whose interval contradicts the fixed sixty-three days      |
| 74 | batch_169 / folio 491, A.D. 4700, old-Calendar Easter column                                              | B    | Easter printed 23 M though the row's fourteenth moon is 18 A                                             |
| 75 | batch_171 / p.497, A.D. 4856, Corpus Christi column                                                       | B    | Month set Inuij for Iunij — a turned letter, recurring at A.D. 4913                                      |
| 76 | batch_172 / folios 498 and 500 and passim, Tabula Festorum Mobilium, year column                          | B    | The year column carries recurrent digit slips, including an unbroken run of sixteen misprinted years     |
| 77 | batch_175 / folio 508, August, Dies Vietae 148, Epactae Vietae column                                     | B    | Epact cell blank where the fixed 59-day recurrence requires the epact-30 lozenge                         |
| 78 | batch_176 / p.512, second citation of the four centennial years of 28 days                                | B    | The same page prints 30800 and 38000 for the same value                                                  |

| #  | Anchor                                                                                 | Cat. | Item                                                                                                              |
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| 79 | batch_180 / folio 524, A.D. 4351 in the lists of years of error                        | C    | A.D. 4351 appears in two mutually exclusive lists of error-years on the same leaf                                 |
| 80 | batch_181 / p.527, Table 1, right block, row below the year 32192                      | B    | Orphan ruled row: every cell blank except an unambiguous xxix in the Epacta Vietae column                         |
| 81 | batch_182 / p.528, table years 2011 and 20117                                          | B    | Epact 15 in a column otherwise uniformly 25, and the table's 20117 against the prose list's 20112                 |
| 82 | batch_184 / p.536, the paschal full moon of March 4800                                 | C    | March full-moon minutes printed 44 where the November sum implies 43                                              |
| 83 | batch_188 / folio 545, table of fifty years (rows 2557, 1911, 1813, 1878, 1897)        | B    | A family of dropped tens-sorts on one leaf: cells print a units digit where the parallel rows give the full value |
| 84 | batch_188 / folio 545, table of fifty years, row 38, Anni Domini; and folio 546, prose | C    | Table prints 5033 where the facing prose enumerates 3033                                                          |
| 85 | batch_189 / folio 547, row 2642                                                        | B    | One row carries two faults: the year printed 2742 and Dies exempti 38 in a column otherwise constant at 18        |
| 86 | batch_189 / folio 547, row 2670, mean-full-moon columns                                | B    | Row internally impossible: the Gregorian and Scaligerian days differ by -7 where the epacts require +1            |
| 87 | batch_190 / folio 552, heading of the table of expanded-year epacts                    | C    | Table heading carries Cap. XIII. inside Caput XXVIII                                                              |
| 88 | batch_193 / p.578, Progressus table, Anni column                                       | B    | The 50,000,000,000 row is missing from the doubling series — an apparent dropped row                              |
| 89 | batch_194 / p.564, the rule ad Quotientem addas vnitatem                               | C    | Rule directs the unit to be added to the quotient where the arithmetic requires the                               |

| #   | Anchor                                                                           | Cat. | Item                                                                                                                                    |
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|     |                                                                                  |      | remainder                                                                                                                               |
| 90  | batch_195 / p.565, mnemonic verse, line 6                                        | B    | Verse word set Kuspidē with a capital K for the classical Cuspidē                                                                       |
| 91  | batch_199 / folio 578, the worked example for 1596                               | B    | Prints sexto Calendas Maij where the intercalation requires Martias                                                                     |
| 92  | batch_204 / p.611, ANNI EXPANSI, row 10, column 4                                | B    | Prints 64 between 53 and 55, breaking the column run                                                                                    |
| 93  | batch_205 / p.614, index, reference for chapter VIII                             | B    | Index reference for chapter VIII reads 75, out of sequence and duplicating chapter VI's                                                 |
| 94  | batch_208 / pp.624 and 628–629, index of the Explicatio                          | C    | The index carries doublets: entries set twice, once with conflicting references                                                         |
| 95  | batch_219 / p.656, left marginal note on the Easter of 1582                      | B    | Margin gives Luna 14, which cannot fall in the fourth week the same note asserts                                                        |
| 96  | batch_226 / p.676, italic marginal note on the range of the equinox              | B    | Margin gives the lower bound as 10 where the body of the same passage reads 19                                                          |
| 97  | batch_227 / printed p.38, marginal biblical citation                             | C    | Marginal citation Matth. 11. does not resolve; the clause quoted is Matthew 12:36                                                       |
| 98  | batch_228 / p.683, marginal note against the body on the computists' lunar month | C    | Margin says the computists' month is iusto maior; the body says the astronomers' is the greater                                         |
| 99  | batch_230 / printed pp.46–48, calendar, September panel header                   | B    | September panel headed SEPTEMPFR                                                                                                        |
| 100 | batch_231 / printed pp.51–113 of the Apologia and appendix, printed page numbers | B    | The pagination of the Apologia and the appendix is repeatedly misprinted, non-monotone and duplicated, while the text runs continuously |

| #       | Anchor                                                                                                                | Cat. | Item                                                                                                    |
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| 10<br>1 | batch_238 / printed p.71, panel A, Anni Domini column, row between 17400 and 17600                                    | B    | Year printed 17582 in a column stepping by 100                                                          |
| 10<br>2 | batch_239 / printed p.75, excerpt from the equation table, Panel 4, row 4, year column                                | B    | Year printed 22000 where the +100 progression requires 32000                                            |
| 10<br>3 | batch_239 / printed p.75, Tabella Cycli Epactarum Perpetua, Band 2, cell D                                            | B    | Cell set with a single leading x where the +11 progression requires xxij                                |
| 10<br>4 | batch_251 / printed p.109, Paschal table, A.D. 329 (golden number 7, Luna XIII 30 Mar.), Plenilunia media, Day column | B    | Mean-full-moon day printed 33, beyond the last day of any month                                         |
| 10<br>5 | batch_257 / global pp.767 ff. and 827 ff., pagination of the appendix pieces                                          | C    | The appendix and the Refutatio each restart their own pagination rather than continuing the volume's    |
| 10<br>6 | batch_258 / printed p.7, Laterculus cycli Solaris Liliani, row 14, second sub-column of Anni Christi                  | B    | Cell prints 4110, breaking both the +100 progression and the constant offset of 2800                    |
| 10<br>7 | batch_258 / printed p.8, Cyclus Solis Iulianus, row 15                                                                | B    | Doubled Dominical letter CB set on a row that is not bissextile                                         |
| 10<br>8 | batch_260 / printed pp.12–14 of the appendix, the sigla keying objection to reply                                     | C    | The letters keying Scaliger's objections to Clavius's replies duplicate and restart mid-page throughout |
| 10<br>9 | batch_263 / printed p.31, penultimate paragraph                                                                       | B    | Canonical formula set Luna xij. where the same page uses xiiij. throughout                              |
| 11<br>0 | batch_263 / printed p.33, Clavius's reply under siglum a                                                              | C    | The source's own reckoning does not follow: 1½ hours past noon on 9 April is called 10 April            |
| 11<br>1 | batch_265 / printed p.29, Clavius's paragraph continuing from p.28                                                    | B    | Epact printed 92, an impossible value; a transposition of 29                                            |

| #       | Anchor                                                                                                                    | Cat. | Item                                                                                                             |
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| 11<br>2 | batch_265 / printed p.29, the final<br>reply BONA verba quaeso, mi<br>Scaliger                                            | B    | Clavius's closing reply is printed<br>with neither speaker rubric nor<br>keying siglum                           |
| 11<br>3 | batch_267 / printed p.35, Clavius's<br>reply under siglum b                                                               | B    | A three-digit year in a series of<br>four-digit years, and an interval<br>of 138 breaking the 132/136<br>spacing |
| 11<br>4 | batch_267 / printed p.35,<br>Scaliger's reply                                                                             | B    | Figure 3012 fits neither of the two<br>values in dispute (Lilius's 300 and<br>Clavius's 312½)                    |
| 11<br>5 | batch_268 / printed p.37,<br>Scaliger's paragraph under<br>siglum c                                                       | B    | Epact printed xiiij where the<br>paired limits require xxiiij                                                    |
| 11<br>6 | batch_269 / printed p.39, Tabula<br>aequationis Epactarum, rows<br>2137 and 2269                                          | B    | Two cells print 0, out of range for<br>a golden number and for the<br>Julian solar cycle                         |
| 11<br>7 | batch_269 / printed p.39, Tabula<br>aequationis Epactarum, Cyclus<br>Solis Iulian. column, rows 2001,<br>3477, 4549, 4817 | B    | Four cells break the column's<br>own progression, which twenty-<br>four of twenty-nine rows satisfy<br>exactly   |
| 11<br>8 | batch_269 / printed p.41, nine-<br>year comparison table, rows 1589<br>and 1592, Plenilunia media                         | B    | Row 1589 gives day 0 of April;<br>row 1592 gives the month as<br>April where both moon-dates are<br>in March     |
| 11<br>9 | batch_270 / printed pp.42–44, the<br>fifty-year and comparison tables<br>(rows 1911, 2219, 2557, 2565,<br>2641, 2670)     | B    | A cluster of dropped-leading-digit<br>cells across three leaves, each<br>fixed by its parallel row               |
| 12<br>0 | batch_270 / printed pp.42–44,<br>Plenilunia media column, sub-<br>heads H. and M.                                         | B    | The sub-head H. stands over a<br>column holding days of the<br>month, not hours                                  |
| 12<br>1 | batch_271 / printed p.47, table of<br>fifty-eight years, row 3615                                                         | B    | Row 3615 carries the golden<br>number and the doubled<br>Dominical letter belonging to<br>3616                   |
| 12      | batch_271 / printed p.47, table of                                                                                        | B    | Three cells break their columns                                                                                  |

| #       | Anchor                                                                               | Cat. | Item                                                                                              |
|---------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------|
| 2       | fifty-eight years, rows 3621, 3641, 3648 and 3699                                    |      | by six days or a dropped leading digit; a fourth is blank on the page                             |
| 12<br>3 | batch_271 / printed p.46, second Dies exempti panel head                             | B    | The second panel repeats the first panel's head where the Scaligerian head is required            |
| 12<br>4 | batch_273 / printed p.53, the Boethius and Pindar quotations                         | C    | Both quotations diverge from the received texts and are kept in the forms the page prints         |
| 12<br>5 | batch_273 / printed p.53, Meo meo te pungam stilo                                    | C    | meo set twice; between dittography and deliberate emphasis the page does not decide               |
| 12<br>6 | batch_274 / printed p.55, the nineteen-year shortfall, given twice                   | B    | The same quantity is printed with different thirds twenty lines apart (tert. 42 against Tert. 41) |
| 12<br>7 | batch_274 / printed p.56, the reductio                                               | B    | die 31. against totidem diebus: the two statements of one sentence cannot both hold               |
| 12<br>8 | batch_274 / printed p.54, vsque ad annum 5000. legitime indicent Pascha celebrati    | C    | celebrati does not construe with indicent Pascha; the true reading is not recoverable             |
| 12<br>9 | batch_274 / printed p.54, the Virgil and Terence quotations                          | C    | Both classical quotations diverge from the received texts and are kept as printed                 |
| 13<br>0 | batch_275 / printed p.57, the NAM paragraph against the statement twelve lines later | B    | Scaliger's intercalation intervals stated 132/136/132 and then 132/134/136 on one page            |
| 13<br>1 | batch_276 / global p.827, the Cicero quotation (De Divinatione)                      | C    | Cicero quoted in Clavius's own re-cast wording, diverging from the vulgate text                   |
| 13<br>2 | batch_280 / printed p.13, Scaliger's corollary to proposition 6, second sentence     | B    | potentia diametri fuerit 94 where the square on a diameter of 7 is 49                             |
| 13      | batch_281 / printed p.16,                                                            | C    | Scaliger cites Euclid I.13 for a                                                                  |

| #       | Anchor                                                                               | Cat. | Item                                                                                                               |
|---------|--------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------|
| 3       | Scaliger's proposition 17                                                            |      | construction that is Euclid I.31                                                                                   |
| 13<br>4 | batch_282 / printed p.18,<br>concluding step of the first<br>demonstration           | B    | commensurabilis printed where<br>the proof's own preceding step<br>requires incommensurabilis                      |
| 13<br>5 | batch_282 / printed p.18, the<br>stated proportion                                   | B    | A term is missing from the<br>proportion: esset quoque AB, ad<br>CD, vt ad CG                                      |
| 13<br>6 | batch_284 / p.850, last line                                                         | C    | The clause will not construe: an<br>intrusive in and a probable<br>dropped ab                                      |
| 13<br>7 | batch_285 / printed p.9, column<br>Vbi Germanus Lunam aequat.,<br>rows 3000 and 3300 | B    | The table's asterisks put<br>Germann's equation years at<br>3000 and 3300 where the prose<br>gives 3100 and 3400   |
| 13<br>8 | batch_285 / printed p.7, row 3800,<br>the H. and D. columns of the<br>paired table   | B    | Gregorian and Germann halves<br>disagree in hours, and the day<br>reads 24 where epact xxj gives 23                |
| 13<br>9 | batch_288 / p.864, in Curia totius,<br>totque excellentium<br>Astronomorum           | C    | Crux: the printed totius has no<br>noun to govern                                                                  |
| 14<br>0 | batch_290 / p.868, the Greek<br>proverb with Castellani's letter-<br>gloss           | C    | A deliberate one-letter Greek<br>wordplay that an editor would<br>wrongly restore to the vulgate<br>proverb        |
| 14<br>1 | batch_290 / p.869, Viète's lemma<br>against Castellani's reply                       | C    | The same Greek phrase is spelled<br>differently in the lemma and in<br>the reply; a real feature of the<br>setting |

**1. batch\_007 / p.21, Calendarium Ecclesiasticum, January and March blocks, Cyclus Epact. column, day 31 — Category C — author/source anomaly**

In the January and March blocks the epact column descends without interruption from xxix at day 2 to i at day 30, and then prints xxix again at day 31. The reading is certain, and the break is set the same way in both blocks; the following month's run continues from it rather than restarting. The other five thirty-one-day

months do not repeat their opening value in this position (31 May xxvii, 31 July xxv, 31 August xxiii, 31 October xxii, 31 December xx), so the repetition is not a general rule of the table. Preserved as printed.

**2. batch\_011 / p.31, dating clause of the bull *Inter gravissimas* — Category C — author/source anomaly**

The bull is dated "M. D. LXXXI." — 1581 — although the attestation printed immediately beneath dates its posting to 1 March 1582, and the reform it promulgates belongs to that year. This is not a compositor's error but the Florentine or Incarnation style of dating, in which the year begins on 25 March, so that 24 February 1582 falls within "1581". Preserved as printed.

**3. batch\_012 / p.34, *Tabella Epactarum ante Calendarij correctionem*, epact row, column of golden number 7 — Category B — source compositor error**

The source prints xxvii (27). The row advances by 11, casting out 30 — the surrounding cells run xxv, vi, [ ], xxviii, ix — which requires xvii (17) here; the printed value moreover duplicates the epact already standing at golden number 17 in the same row. The glyph run is unambiguous, so the fault is in the type. Preserved as printed.

**4. batch\_014 / p.41, table of the equation, third block, row II of the sixth three-row group — Category B — source compositor error**

The source prints 21800. The column advances by exactly 100 throughout, which requires 11800; the leading digit is unmistakably a 2, so this is a wrong or inverted sort rather than a doubtful reading. The series resumes correctly at the next row. Preserved as printed.

**5. batch\_016 / p.48, *Tabella temporaria*, row 1597, Pentecostes column — Category B — source compositor error**

The source prints 25 Iunij. The same row gives Easter 6 April, Ascension 15 May and Corpus Christi 5 June, so Pentecost cannot fall in June; the parallel row 1586, which has the same Easter of 6 April, prints 25 Maij. The error is in the month-word alone. Preserved as printed.

**6. batch\_017 / p.49, *Tabula Paschalis antiqua reformat*a, 32nd date row (dominical letter g, Septuagesima 18), Dies Cinerum column — Category B — source compositor error**

The source prints 6, the same value as the row above (f | 17 | 6), after which the column jumps to 8. The column advances by one throughout, so 7 is the value required. Preserved as printed.

**7. batch\_017 / p.50, Cyclus Epactarum, blocks G, B, F and A (four cells) —**  
*Category B — source compositor error*

Four cells of this leaf print an epact that already occurs earlier in the same block, leaving the epact actually required by the cycle unrepresented: block G, last row, third cell prints xvj although 16 already stands in row 2 and 26 (xxvj) is missing; block B, fourth row, fifth cell prints xj although 11 already stands in row 2; block F, last row, sixth cell prints xxijj, duplicating the block's opening epact, while 24 is missing; block A, last row, fifth cell prints xiiij, duplicating row 2, while 24 is missing. All four were re-read on the leaf and are certain; the pattern (a dropped x or a dropped i) is that of a compositor working from a case of Roman sorts. Because only the wrong form is on the page, no correction is proposed. Preserved as printed.

**8. batch\_017 / p.50, block B, third row, fourth and fifth epact cells —**  
*Category B — source compositor error*

The source prints vj and then vij, that is 6 before 7, whereas every other row of every block descends. An interchange of two adjacent sorts. Preserved as printed.

**9. batch\_017 / p.51, Tabula Paschalis, fourth group (letter G), first row, Pentecostes column —**  
*Category B — source compositor error*

The source prints 15 Maij in a row whose Easter is 25 March and whose Trinity Sunday is 20 May. Pentecost stands seven days before Trinity in each of the other thirty-four rows, which requires 13 May; the printed figure also makes the interval from Easter fifty-one days instead of forty-nine. Preserved as printed.

**10. batch\_022 / pp.64–65, calendar of saints, 15 October —**  
*Category B — source compositor error*

The prose list names four martyrs at 15 October — "SS. Sergii, Bacchi, Marcelli, & Apulei Mart." — while the table prints only three, "& SS. Sergii, Bacchi, & Apuleii". Both readings are certain; the omission is the compositor's, in the table. Not emended. Preserved as printed.

**11. batch\_025 / printed p.59, table of ancient Easters, right panel, last row (A.D. 604), Pascha column —**  
*Category B — source compositor error*

The source prints 12 M for the Easter of 604. Easter cannot fall on 12 March; the earliest possible date is 22 March, as this very page argues. Both the day-figure and the month-letter are legible, so one of the two sorts is wrong, and which cannot be determined from the page. Preserved as printed.

**12. batch\_025 / printed p.59, prose introducing the table** — *Category B — source compositor error*

The sentence introducing the table prints "157. annos". The first line of the same page speaks of "centum septuaginta quinque" (175) Easters kept on the fifteenth moon, and the same sentence elsewhere gives "annos 175". Both figures are unambiguous; the discrepancy is either a transposition of digits or two different counts left unreconciled. Not harmonized. Preserved as printed.

**13. batch\_026 / p.76, table of ancient Easters, Anni Domini columns** — *Category B — source compositor error*

Three cells of this leaf break the ascending order of their columns: the right panel prints 1183 where 1383 is required, and 2414 between 1410 and 1434 (a 2 set for 1 in the thousands); the left panel prints 0021 between 1007 and 1025 (a 0 set for 1). Each glyph is individually crisp and each error self-corrects at the next row, which is the signature of wrong sorts rather than of doubtful readings. Preserved as printed.

**14. batch\_029 / printed p.69, Caput V, opening paragraph, second run of centesimal years** — *Category B — source compositor error*

The source prints 2160 in a run of centesimal years. The third digit carries a closed bowl unlike the plain ovals of the zeros in 2200 on the same line, so the reading is certain; both the sequence itself and the parallel passage on printed p. 74 require 2100. Preserved as printed.

**15. batch\_033 / printed p.82, body, list of example bissextile years** — *Category B — source compositor error*

The source prints 1512 as the third member of a list of bissextile years. The years enumerated three sentences earlier are 1584, 1596 and 1612, and 1512 lies before the reform altogether, so it cannot belong to the argument. The reading is certain. Preserved as printed.

**16. batch\_033 / printed p.83 and passim, running headers of the Explicatio, Apologia and Refutatio** — *Category C — author/source anomaly*

The standing headers of this volume are erratic and must not be used to locate the text beneath them. Printed p. 83 reads CAPVT QVINTVM. over matter continuous with Caput VII (p. 81 correctly reads CAPVT SEXTVM. for the tail of Caput VI). The same fault recurs a dozen times: p. 405 gives the chapter as XXI. where it is XXII throughout; p. 531 reads CAPVT XXIII. between leaves of Caput XXV, with no chapter rubric on the page to justify it; folios 547 and 549 read CAPVT XXVII. and CAPVT XXV. across a single opening of continuous polemic; in the Apologia, folio 6 reads LIBRI SECVNDI on a leaf whose content and whose preface ("In primo omnia, quae ad Aequinocetium spectant, explicabuntur") place it in Book One, and printed p. 38 does the same; printed p. 33 reads CAPVT SEXTVM while the body continues Caput VII without a break, and p. 749 does likewise; p. 737 reads CAPVT SEPTIMVM on a leaf still within Caput VI, which does not close until p. 99 of that sequence. Two headers are misspelled: LIRBI SECVNDI for LIBRI SECVNDI on printed p. 98 and again on p. 742 (the p. 744 verso is correct), and the two rectos at the end of the volume disagree with each other, AD EXPOS. VITAE. on p. 865 against AD EXPOST. VIETAE. on p. 867 — the first a transposed setting, since the piece answers Viète. All are recorded verbatim and none is renumbered or corrected.

**17. batch\_034 / printed p.86, §3, attribution of the 76-year period — Category C**  
— *author/source anomaly*

The text reads "...assumpsit hoc spatium 76. annorum ... Hipparchus ... ideoque a Ptolemaeo, alijsque scriptoribus, idem spatium, periodus Callippica dicta fuit." The connective is logically loose: the period is conventionally named for Callippus, not for Hipparchus's adoption of it. Translated exactly as printed.

**18. batch\_036 / p.107, Calendarium, Maius, day-reckoning column, row 30 — Category B**  
— *source compositor error*

The source prints ij. The neighbouring rows are sound (29 = iiii, 31 = Prid.), so the printed value breaks the column's descent by one; 30 May is the third day before the Kalends of June. A dropped or broken i. Preserved as printed.

**19. batch\_036 / pp.106 and 108, standing head over the Calendarium Ecclesiasticum — Category C**  
— *author/source anomaly*

The standing head reads CALEND. GREGOR. on p. 106 and CALENDAR. GREG. on p. 108, although the tables beneath them are the old Calendarium Ecclesiasticum, printed here for comparison with the reformed calendar. A reader consulting the leaves out of sequence could take the tables for the Gregorian ones. Preserved as printed.

**20. batch\_038 / pp.113 and 114, Iulius and October tables, Dies Mensis column, twelfth day-row — Category B — source compositor error**

In the July table the row between 11 and 13 prints 22, with dominical letter d and Roman reckoning iiii, both correct for 12 July; the October table repeats the fault exactly, with letter e and reckoning iiii. A turned or miscomposed 1, and evidently the same standing sequence used for both months. Preserved as printed.

**21. batch\_040 / p.118, §5 final sentence and the third marginal note — Category B — source compositor error**

§5 prints "Epactam xxiii" where the argument and the parallel clauses require xxiiii, and the third marginal note prints "Epactas xxv. xxiii." against the body of §8 it annotates, which has "hae duae xxv. xxiiii." The same dropped minim in both places. Preserved as printed.

**22. batch\_041 / p.122, §4, equation table, letter P against the year 320 — Category C — author/source anomaly**

The text dates the Council of Nicaea "circa annum Domini 325", while the equation table places the letter P against the year 320. This is not an error but Clavius's own stated choice, justified in the text on the ground that 320 is a bissextile year and lies nearer to hand for the computation. Recorded because a reader collating table against prose will otherwise take it for a fault.

**23. batch\_043 / printed p.112, table of the equation, Panel 3, first group (years 9400–9700) — Category B — source compositor error**

In this four-row group the word Biss. and the doubled lunar crescent stand on 9700, with three empty cells above them, whereas everywhere else in the table Biss. falls on the year divisible by 400 and on the third row of its group — here 9600. The crescent and the tail of Biss. sit on one baseline, so this is the setting of the forme, not a defect of registration. The fault does not propagate: the /400 series resumes correctly at 10000. Preserved as printed.

**24. batch\_044 / printed pp.115–131, the Dies omissi column of the great equation table (and batches 045–049) — Category B — source compositor error**

The Dies omissi column of the great table of the equation ascends without interruption from 1964 to 2263 across all nine panels, and seven cells break it, each by a transposed or substituted digit and each self-correcting at the following row. The instances are: 324 for 424 at year 58100 and 545 for 554 at year 75400

(printed pp. 115–116); 867 for 897 at year 121200, where the same column prints 867 correctly twice at years 117100 and 117200, so the wrong sort was to hand; 1112 for 1212 at year 163200, a value legitimately used already at year 149800; 1266 for 1366 at year 183700 and 1487 for 1387 at year 186500, both leading-digit transpositions in an otherwise regular run; and 2192 for 2199 at printed p. 131. In every case the figures are crisply inked and the neighbouring cells are correct, so the faults are the compositor's and not defects of the copy. All seven preserved as printed.

**25. batch\_044 / printed p.115, panel 1, year 49300, lunar column** — *Category B*  
— *source compositor error*

The doubled lunar mark at this year is set with reversed crescents, opening the opposite way from the eleven other doubled positions in the same opening. The same wrong-way sort recurs at year 153900, where it was confirmed on the leaf: the bowl opens to the left against the ordinary form of every other mark in the column, including those three and four hundred years either side. A wrong sort drawn from the case, not a variant of meaning. Preserved as printed.

**26. batch\_048 / printed pp.126 and 127, panel 2, groups 224200–224500 and 241000–241300** — *Category B* — *source compositor error*

In each of these four-row groups the word Biss. and the lunar sort are exchanged between two rows. Neither 224300 nor 241100 is divisible by 400 ( $224300/400 = 560.75$ ;  $241100/400 = 602.75$ ), so neither can carry Biss.; by the invariants of the table Biss. belongs on 224400 and 241200, the doubled crescent on 224300 and the single on 241100. The resuming single-crescent runs at 224600 and 241400 independently confirm the intended rows. The same transposition occurs in two separate formes. Preserved as printed.

**27. batch\_050 / printed p.134, Anni Domini table (nine cells)** — *Category B* — *source compositor error*

This table advances by 19 along its rows and by 228 down its columns, and nine of its 432 cells break both rules while their neighbours hold: row 1, column 5 prints 76 for 77; row 5, column 11 prints 1003 for 1103; row 11 prints 2219 for 2319 and 2365 for 2395; row 12 prints 2586 for 2585; row 13 prints 2928 for 2927; row 15 prints 3305 for 3345; row 34 prints 6620 for 7620; row 36 prints 8981 for 7981. Their density and their character — single-digit substitutions, each self-correcting — are those of compositor's slips in a numeral-dense forme. All nine preserved as printed.

**28. batch\_051 / p.151, twelve-column table, row beginning 10717, column 9 — Category B — source compositor error**

The series requires 10869 ( $10850 + 19$ ); the source prints 10888. Unlike the isolated breaks elsewhere in the volume this one is never corrected: the compositor continued the series correctly from his erroneous value, so the rest of the row (10907, 10926, 10945) and every later entry on the page stand a uniform 19 above the strict arithmetic series. Readers computing from this leaf should be aware that the offset persists to its foot. Preserved as printed.

**29. batch\_051 / p.151 (rows 10964, 11192, 14840) and p.153, lower block, row O — Category B — source compositor error**

Four cells carry a single wrong digit and are silently put right by the next entry: 11902 for 11002 (the following cell, 11021, resumes from 11002); 11544 for 11344 (the next cell, 11363, resumes); 14497 for 14897 (the next cell, 14916, resumes); and, in the lower block of p. 153, 55900 for 65900 in row O, the leading 6 set as 5, with rows N and P reading 65800 and 66000. Preserved as printed.

**30. batch\_052 / p.138, centennial table, upper block, row E (golden number ij), year-column 8 — Category B — source compositor error**

The source prints 27300. The column requires 97300 (row D reads 97200, row F reads 97400) and the row requires the same ( $95400 + 1900$ ). The leading 9 is mis-set or has failed to print. The fault does not propagate: row F resumes at 97400. Preserved as printed.

**31. batch\_053 / p.142, Cyclus Epactarum perpetuus, first panel, cell under the index letter M — Category B — source compositor error**

The source prints xviii (18). The panel runs \*, xj, xxij, iiij, xiiij, xxv, vj, xvij, [ ], ix, advancing by 11 and casting out 30, which requires 28 here; 28 is also the epact the standard cycle attaches to the index letter M, and 18 already occupies the corresponding cell of the second panel. The break is isolated — the next cell (ix) is correct and panels 2 and 3 run the full progression. Preserved as printed.

**32. batch\_054 / p.160, Amplius worked example (year 590600) — Category B — source compositor error**

The text directs that the 28 ten-thousands be multiplied by 13 and "the product 304" divided by 30. The product is 364. The error is harmless downstream, since the residue 4 which the example goes on to use is correct for 364 modulo 30. Preserved as printed.

**33. batch\_054 / p.162, Idem assequemur paragraph (year 671600) — Category B**  
— *source compositor error*

The text divides 669800 "by 25". The divisor must be 2500: the quotient 267 with remainder 2300, given in the very next clause, is the correct result of  $669800 \div 2500$ , and the rest of the chain closes exactly on that value. Two zeros lost in composition. Preserved as printed.

**34. batch\_055 / printed p.148, Tabula prior, third column-pair, argument column rows 1–3 — Category B — source compositor error**

The argument column prints 9700, 9700, 9700 against the postpositions 34, 35, 35, where the strict progression by 100 followed by every other column requires 9700, 9800, 9900. The glyphs are unambiguous — compare the crisp 5800 and 5900 of the neighbouring pair — and the column resumes correctly at 10000 in row 4. Preserved as printed.

**35. batch\_056 / p.152, sixth band, day-number row, twelfth cell — Category B**  
— *source compositor error*

The sequence reads 266, 267, [298], 269, 270. The count is intact on both sides, so no day has been lost; 298 legitimately appears nine bands later as the true day 298, so the compositor has repeated a sort standing near to hand. Preserved as printed.

**36. batch\_057 / p.154, the POSTREMO and VT quoque facilius worked examples — Category B — source compositor error**

Both examples place a letter of the compendium at the wrong day, and in each case the page itself gives the right one. The small u is said to stand "infra diem 21"; p. 153 states explicitly "ad literam u, minusculam sub 12. die collocatam", and p. 154's own later sentence puts the capital A at day 11, u being the letter next before it. The capital H is said to stand "infra diem 24" in a clause that has just computed the sum: "addemus 11. ad 23. vt fiat 34. litera enim H, maiuscula infra diem 24." H stands at day 34 (P = 31, N = 32, M = 33, H = 34). Both are transpositions in the 1612 setting. Preserved as printed.

**37. batch\_059 / p.176, table III (A.D. 800–1099), first strip, column of golden number 4 — Category B — source compositor error**

The column runs j (1), ij (2), xxiiij (23), iiij (4). Every step in all ten tables advances by 11, casting out 30, so the value between 1 and 23 must be 12 (xij). A single-cell break, self-correcting at the next entry. Preserved as printed.

**38. batch\_059 / p.176, table III (A.D. 1100–1399), foot strip of starting years — Category B — source compositor error**

The strip is otherwise a uniform series advancing by 19 (1119, 1138, 1157, 1176, 1195, ..., 1233, 1252).  $1195 + 19 = 1214$ ; the printed 1204 makes the following step 29. Self-correcting at 1233. Preserved as printed.

**39. batch\_059 / p.176, table V (A.D. 1400 – 4 Oct. 1582), second strip, column of golden number 13 — Category B — source compositor error**

The preceding cell, under golden number 12, is xij, so the step of 11 requires 23 (xxij). The four minims are distinct on the page, so this is a set value and not a doubtful reading. Being the last cell of the strip it neither self-corrects nor propagates. Preserved as printed.

**40. batch\_060 / printed p.163, table XVII, foot strip, cells 6–10 — Category B — source compositor error**

Table XVII covers 3500–3599, so the five years standing in its foot strip lie wholly outside it; the same five years constitute the entire foot strip of table XIX (3700–3799) on the facing page. A duplication in composition. Table XVIII's foot strip immediately below is correct for its own span. Preserved as printed.

**41. batch\_060 / printed p.164, table XXII, first foot row, eleventh cell — Category B — source compositor error**

The row otherwise advances strictly by 19 (...4352, 4371, 4390, [ ], 4428), and the printed 4490 also exceeds the 4428 immediately following, so the row is not even monotone as set. Self-correcting at 4428 and in the second foot row (4447, 4466, 4485). Preserved as printed.

**42. batch\_062 / p.185, Reuolutiones Nouiluniorum (Coniunctiones), row 9, D column — Category B — source compositor error**

The column reads 236, 256, 295 — increments of 20 and then 39, where every other step is 29 or 30. The neighbouring rows and the row's own H, M and S values (18, 36, 29) are consistent only with 265, so two digits have been interchanged. Self-correcting at the next row. Preserved as printed.

**43. batch\_062 / p.184, Num. 2, enumeration of bissextile years — Category B — source compositor error**

The enumeration of the multiples of four skips 8. The governing clause — the rest that four measures out — makes the omission harmless to the argument, but the list as printed is defective. A dropped sort. Preserved as printed.

**44. batch\_062 / p.184, Num. 1, marginal cross-reference** — *Category C — author/source anomaly*

The marginal note refers the reader to chapters 25 and 26 where the body of the same paragraph cites 26 and 27. Both figures are crisply set, so this is not a doubtful reading; the likeliest explanation is a marginal note carried over unrevised from an earlier state of the work, Clavius's chapter-count having shifted between editions. Preserved as printed.

**45. batch\_063 / p.189, Revolutiones Noviluniorum, panel 2, row 17, Dies column** — *Category B — source compositor error*

The third panel prints 23033862041 for the corresponding tenfold multiple and the same panel's row 8 prints 2303386, so the fourth digit of this cell breaks the series the table itself establishes. The fault does not propagate: row 18 resumes at 26872839. Preserved as printed.

**46. batch\_063 / p.189, §5, the anticipation over 76 years** — *Category C — author/source anomaly*

The anticipation is stated first as "hor. 5. min. 50. sec. 11." — hedged with propemodum — and at the close of the section as "H. 5. min. 50. sec. 14." The difference derivable from the table itself supports 14. Both readings are certain; the discrepancy is in the source and is not harmonized. Preserved as printed.

**47. batch\_065 / printed p.178, first Anni Subtrahe panel, rank 10** — *Category B — source compositor error*

Rank 9 reads 2186 and rank 11 reads 2338; the same rank reads 2261 on p. 177 and 2263 on p. 179, so the value required is 2262. A single digit set as 1 for 2, self-correcting at the next row. Preserved as printed.

**48. batch\_070 / printed p.192, first Anni Subtrahe panel, Ordines index column** — *Category B — source compositor error*

The index runs 28, 39, 30. The Anni value accompanying the row, 3720, is correct for Order 29, so the fault is confined to the index figure and does not affect the table's use. A misset sort, 3 for 2. Preserved as printed.

**49. batch\_080 / printed p.223, Menses block, row F (February), D column —**  
*Category B — source compositor error*

The day column runs 20, [15], 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, so the printed figure breaks its descent; and the row's own H, M and S (6, 56, 11) chain exactly to the March row only if the day is 19. The reading was verified on the leaf: the discrepancy is in the source's arithmetic. Preserved as printed.

**50. batch\_080 / printed p.223, Menses block, row I (January), S column —**  
*Category B — source compositor error*

The seconds column advances by exactly 3 per row (11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41), which requires 8 in this cell. The printed value is an unambiguous two-sort 18. Preserved as printed.

**51. batch\_090 / p.270, QVOD-si paragraph (year 9151), Die Martij and Die Maij —**  
*Category B — source compositor error*

The paragraph takes as its input 12 March, hour 0, min. 44, sec. 58, adds 67 days, and gives the result of the following subtraction as D. 19, H. 23, Min. 16, Sec. 52 — both of which require 44 minutes. The result line nevertheless prints Min. 24, and the same figure stands again in the Die Maij clause on the same line. The 2 was compared with the 2 of "Min. 28. Sec. 6." on the line above and the reading is certain: this is a fault in the type, not in the copy. Preserved as printed.

**52. batch\_106 / p.301, Caput XV Tabulae leaf, golden-number grid, column D —**  
*Category B — source compositor error*

On both calendar leaves of this month the day-31 row repeats the day-1 row cell for cell, and the other seven columns of this leaf do so. Column D alone is inked at day 31 and blank at day 1. A dropped sort at day 1 is the likeliest account, but the value cannot be recovered from the page and nothing has been supplied: both rows are given exactly as the leaf has them. Preserved as printed.

**53. batch\_107 / p.305, lunation table, Aureus Numerus 1 row, Magnitudo column —**  
*Category B — source compositor error*

The row reads 29, 29, 30, 29, 30, 29, 30, 29, 30, 29, 30, 29, summing to 353, while its Magnitudo cell reads 354 (the rows above and below, for golden numbers 19 and 2, read 384). Either one of the twelve lengths or the Magnitudo is wrong; which cannot be determined from the page, and nothing has been altered to make the row close. Preserved as printed.

**54. batch\_107 / Caput XVI table, golden numbers 1 and 2, epact column — Category C — author/source anomaly**

The epact of golden number 1 reads viij (8) and that of golden number 2 xix (19), one more in each case than the simple advance by 11 would give. This is not a fault: it is the saltus of twelve which the chapter text explicitly describes at the close of the cycle. Recorded so that a reader checking the column against the ordinary rule does not take it for a compositor's error. Preserved as printed.

**55. batch\_108 / p.306, Cycle N table, Golden No. 1 (saltus) row, first lunation — Category B — source compositor error**

The Length column gives 353, correct for the saltus year, but the printed lunations 30, 29, 30, 29 ... sum to 354. The parallel saltus rows on pp. 307 and 308 begin 29, 29 ..., summing to 353, so the first lunation here is set 30 where 29 is required. Preserved as printed.

**56. batch\_108 / p.307, Cycle M table, Golden No. 5 row, end of the twelfth and thirteenth months — Category B — source compositor error**

The page prints "30 Dec. | 30 Dec." in the columns giving the end of the twelfth and of the thirteenth lunar month — two successive months closing on the same day. The reading was verified on the leaf: the abbreviation matches the "14 Dec." and "11 Dec." above it and is distinct from the "No." standing nearby. Preserved as printed.

**57. batch\_110 / printed folios 310, 317, 388, 338, 478 (Explicatio, Caput XV gathering and following) — Category B — source compositor error**

The printed leaf-numbers of this part of the volume cannot be trusted for sequence, though the content is demonstrably continuous throughout. The eighth-Cycle leaf (litera D) is numbered 310, duplicating a leaf in the preceding gathering, where the sequence requires 312 — the two following leaves are numbered 313 and 314. The eleventh-Cycle leaf is numbered 317 where the sequence requires 315, so that 317 stands twice, the second occurrence being the genuine one. Further on, an old-Calendar leaf is numbered 388 where the run's alternation of new and old leaves requires 387, and the following verso is numbered 338 where it should be 388, the middle digit set 3 for 8. A verso of the later Explicatio is numbered 478 where the sequence requires 578, its recto neighbours reading 577 and 579. All preserved as printed.

**58. batch\_122 / p.348, Magini's table, right panel, row 13, year column — Category B — source compositor error**

The source prints 1567 between two rows of 1597. A compositor's error for 1597; the reading is not in doubt. Preserved as printed.

**59. batch\_122 / p.350, prose list of exemplary years against the accompanying table** — *Category B* — *source compositor error*

The prose and the table beneath it disagree in their last member, 496 against 495. Both are legible and one of the two is a compositor's slip; which cannot be settled from the page. Both preserved as printed and not harmonized.

**60. batch\_124 / p.355, §5, marginal note Nouilunium non Paschale 6. diei Aprilis** — *Category C* — *author/source anomaly*

The body of §5 makes 5 April, not 6 April, the date that becomes Paschal in the upper line; 6 April is the lower line's non-Paschal date. The margin appears to have been glossed from the wrong line. Preserved as printed.

**61. batch\_124 / p.356, upper marginal note Lunam xv.** — *Category B* — *source compositor error*

The whole of the surrounding passage argues from the fourteenth moon, Lunam xiiij.; the note in the upper margin prints Lunam xv. A slip in the small type of the margin. Preserved as printed.

**62. batch\_132 / p.378, Tabula Festorum Mobilium, Dominica prima Aduent. column, keys 2 and 3** — *Category B* — *source compositor error*

The first Sunday of Advent can fall only between 27 November and 3 December. The source prints 9 at key 2 and 23 at key 3; both readings were confirmed on the leaf and both are impossible. The column runs an exact fourteen-row cycle verified across the other fifty keys and confirmed by keys 53–60 on p. 379, and the printed neighbours are sound (key 1 = 29 No., key 4 = 30). Preserved as printed.

**63. batch\_132 / p.380, Tabula Festorum Mobilium, Dies Cinerum column, A.D. 1638 and 1639** — *Category B* — *source compositor error*

1638 prints 9 Feb., although the same row's Septuagesima (31 Ian.) and Easter (4 A) are equally legible, mutually consistent, and jointly require 17 Feb.; 1639 prints 17 Mar., where its Septuagesima (20 Feb.) and Easter (24 A) require 9 Mar. The pair reads as an exchange of the two cells between adjacent rows. Both preserved as printed.

**64. batch\_133 / folios 381 and 383 and passim, Tabula Festorum Mobilium, Corpus Christi column** — *Category B* — *source compositor error*

Corpus Christi falls invariably eleven days after Pentecost. Through the long run of the *Tabula Festorum Mobilium* a series of rows sets its month as June where the same row's Pentecost — printed Maij and perfectly legible — places the feast in May. The instances gathered here are folio 381, A.D. 1641 ("30 Iunij", for 30 Maij) and 1652 ("30 Iunii"), and folio 383, A.D. 1660 ("27 Iunij") and 1704 ("22 Iunii"); the same slip recurs on the leaves following (among them folio 503, A.D. 4593, "23 Iunij" where Pentecost 12 Maij + 11 gives 23 Maij). Every instance falls at the roll-over from late May into June, which is where a compositor setting month-abbreviations by eye would be likeliest to err. All preserved as printed.

**65. batch\_136 / folios 386, 388, 408 and 430, *Tabula Festorum Mobilium*, Septuagesima column** — *Category B* — *source compositor error*

Septuagesima can fall only in January or February. Four rows of this table print a month that the rest of their own data excludes. A.D. 1915 and 1983 print Iun., which is impossible; the required values are 31 Ian. and 30 Ian., and both faulty cells fall on a Septuagesima of the very last days of January. A.D. 2407 prints 21 Feb., impossible against the row's Easter of 25 March, where 21 Ian. is required. A.D. 3013 prints 14 Ian., where Easter 18 April less sixty-three days gives 14 Feb. All four preserved as printed.

**66. batch\_136 / folio 407, A.D. 1906, old-Calendar Easter column** — *Category B* — *source compositor error*

The row's fourteenth moon is 30 M and its dominical letter A, which together exclude an Easter of 12 April. The printed value is nevertheless 12 A and the reading is certain. The impossibility belongs to the source. Preserved as printed.

**67. batch\_139 / folio 401, *Tabula Festorum Mobilium*, Diff. column, rows 2168 and 2213/2214** — *Category B* — *source compositor error*

The Diff. column records the difference in days between the two Easters and can therefore hold only multiples of seven; the values used on these leaves are 0, 7, 28 and 35. Row 2168 prints 53, a transposition of 35, which the feast-intervals of the row independently confirm. In rows 2213 and 2214 the values 35 and 7 stand in each other's places, the intervals giving 7 for 2213 and 35 for 2214. Preserved as printed.

**68. batch\_141 / folios 405–407, rows 2316, 2338, 2356 and 2362** — *Category B* — *source compositor error*

Four cells of this opening were re-read on the leaf and are certain as readings while being impossible as values. Row 2316 gives an old-calendar Easter of day 41

in March, and March has no forty-first day. Row 2338 gives Ash Wednesday 24 Feb. where Easter less forty-six days, and the parallel year 2349, require 23 Feb. Row 2356 gives a mean full moon on day 25 where the fourteenth moon (16 A) and Easter (22 A) constrain it to about 15 April. Row 2362 gives Easter 16 A against a fourteenth moon of 30 M, a span of seventeen days and so impossible. In no case is the intended value recoverable from the page, and none has been supplied. All preserved as printed.

**69. batch\_151 / p.435, Tabula Festorum Mobilium, A.D. 3121, Diff. column — Category B — source compositor error**

Both Easters fall on Sundays, so the difference between them is necessarily a multiple of seven; the source prints 2. A dropped tens-digit (42, say) or a transposition would account for it, but the intended value cannot be recovered from this leaf. Preserved as printed.

**70. batch\_151 / p.435, Tabula Festorum Mobilium, A.D. 3159, Corpus Domini column — Category B — source compositor error**

Corpus Christi stands eleven days after Pentecost; the row's Pentecost is 17 Maij, so the feast falls on 28 May. The source prints 18 Maij, failing the rule by ten days. Because the intended figure rests on the rule rather than on the ink, it is not supplied in the text. Preserved as printed.

**71. batch\_157 / printed pp.453–455, Tabula Festorum Mobilium, Easter and Luna 14 columns — Category B — source compositor error**

A cluster of faults falls within a single opening, each detectable from the row in which it stands. A.D. 3636 prints Easter 23 M and A.D. 3693 prints 22 M, both impossible against a fourteenth moon of 18 A; A.D. 3717 prints 30 A against a fourteenth moon of 24 M; A.D. 3642 prints a fourteenth moon of 2 A, with no tens-digit on the page, against the row's Easter of 16 A, which requires 12 A; A.D. 3690 prints a fourteenth moon of 22 A against Easter 29 M; and A.D. 3691 prints the month of the full moon as A against the row's fourteenth moon of 26 M. All preserved as printed.

**72. batch\_162 / folios 468 and 470, A.D. 4118 and 4175, Pascha and Ascensio — Category B — source compositor error**

A.D. 4118 prints Pascha 24 M and Ascensio 2 Maij in a row whose fourteenth moon is 18 A; Easter cannot precede its own paschal moon, so both cells are impossible as printed. A.D. 4175 shows the same fault, 23 M and 1 Maij. Both rows were re-read on the leaf and the printed values stand; readings earlier derived

from the feast-intervals have been withdrawn in their favour. Preserved as printed.

**73. batch\_167 / p.500, Tabula Festorum Mobilium, Septuagesima and Easter columns, A.D. 4525, 4537, 4563, 4566 — Category B — source compositor error**

Septuagesima stands sixty-three days before Easter. In these four rows the two printed dates do not answer to each other, and three further rows (4522, 4534, 4564) are out by a single day. All were re-read again on the leaf and none is a doubtful reading: the errors are in this leaf's type. Preserved as printed.

**74. batch\_169 / folio 491, A.D. 4700, old-Calendar Easter column — Category B — source compositor error**

The row's fourteenth moon is 18 A, confirmed by the Metonic recurrence at 4681 and 4662. Easter cannot precede its own fourteenth moon, so the printed month-letter is impossible. The glyph is at the limit of what the foxing on this leaf permits, so no emended reading is asserted. Preserved as printed.

**75. batch\_171 / p.497, A.D. 4856, Corpus Christi column — Category B — source compositor error**

The month is set "Inuij", the n and u exchanged in composition. The same turned-letter fault recurs at folio 499, A.D. 4913. Preserved as printed.

**76. batch\_172 / folios 498 and 500 and passim, Tabula Festorum Mobilium, year column — Category B — source compositor error**

The Anni Domini column of this long table is the volume's most defective, and its errors are of one kind: a single wrong digit, with the rest of the row — golden number, epact, feast-dates — correct and sufficient to fix the year intended. The largest instance is a run of sixteen consecutive rows on folio 498, printed 3944 to 3959 for 4944 to 4959, the thousands digit set 4 for 3 throughout; the same leaf prints 4030 for 4930 and folio 500 prints 4090 for 4990. Isolated instances elsewhere in the table are 3462 for 3562, 4206 for 4106 (the facing new-Calendar leaf printing 4106 correctly), 4594 for 4504 and 4616 for 4516, 4694 for 4604, 4708 for 4608, 4567 for 4667, and a corrupt cell at A.D. 4729 whose true value is fixed by golden number 18, epact xxiiij and the feast-intervals. In every case the surrounding rows are correct and the sequence resumes at once. All preserved as printed.

**77. batch\_175 / folio 508, August, Dies Vietae 148, Epactae Vietae column — Category B — source compositor error**

In Viète's column the epact-30 sign recurs at a fixed interval of fifty-nine days — at 30, 89, 148, 207, 266 and 325. At 148 the cell is blank. Almost certainly a dropped sort; the cell is given as it stands and has not been filled. Preserved as printed.

**78. batch\_176 / p.512, second citation of the four centennial years of 28 days** — *Category B — source compositor error*

The set is printed "15200. 30800. 60800. 83600" and, higher on the same page, "15200. 38000. 60800. 83600". The common difference is 22800, which 38000 completes exactly and 30800 breaks. Both forms are legible: the page contradicts itself. Preserved as printed.

**79. batch\_180 / folio 524, A.D. 4351 in the lists of years of error** — *Category C — author/source anomaly*

The leaf lists the years in which the error amounts to seventeen years and, separately, those in which it amounts to forty-five; A.D. 4351 stands in both, which cannot be. One instance is presumably a compositor's error, or a misreading of an adjacent year such as 4301 or 4355, both themselves members of a list. The same leaf gives the summary figure before the first list as 12 against a list of seventeen members. Preserved as printed.

**80. batch\_181 / p.527, Table 1, right block, row below the year 32192** — *Category B — source compositor error*

The block closes with a fully ruled row whose Anni, Aurei Numeri, opposition and Epacta Greg. cells are all blank and which carries only xxix in the Epacta Vietae column. The likeliest account is a row ruled into the forme whose year and remaining values failed to print. Preserved as printed.

**81. batch\_182 / p.528, table years 2011 and 20117** — *Category B — source compositor error*

Two independent discrepancies stand on this page. The epact against the year 2011 reads 15 in a column that is otherwise uniformly 25. And the year printed 20117 in the table is given as 20112 in the prose list of the same years. Both are legible as printed and neither has been harmonized to its counterpart. Preserved as printed.

**82. batch\_184 / p.536, the paschal full moon of March 4800** — *Category C — author/source anomaly*

The January new-moon sentence prints "D. 14. H. 21. Min. 44. Sec. 41", while the November full-moon sum, "D. 251. Hor. 3. Min. 36. Sec. 6", implies 43 minutes for March. A one-minute contradiction internal to the source; which of the two figures was misset cannot be determined. Preserved as printed.

**83. batch\_188 / folio 545, table of fifty years (rows 2557, 1911, 1813, 1878, 1897)**  
— *Category B — source compositor error*

Five cells of this leaf print a bare units figure where the tens sort has failed to print, the position standing as blank paper. In row 2557 the Ep. G. column prints 8: the row's Luna 14 is 15, and the rows of the same golden number 12 (2519, 2538, 2595) all print 28. The same fault stands at 1911 (Plen. S. prints 1 where the parallel 1987 prints 12), at 1813 (Luna 14 S. prints 3), at 1878 (Plen. S. prints 6) and at 1897 (Ep. S. prints 2). Each was confirmed on the leaf. Preserved as printed.

**84. batch\_188 / folio 545, table of fifty years, row 38, Anni Domini; and folio 546, prose** — *Category C — author/source anomaly*

The table's thirty-eighth row prints 5033, standing between 3014 and 3071, the second glyph a plain 0 and the reading certain. The prose on folio 546 enumerates the same year as 3033. The table's figure is given as printed and the prose's parallel recorded beside it; neither has been substituted for the other.

**85. batch\_189 / folio 547, row 2642** — *Category B — source compositor error*

The year is printed 2742; golden number 2 and the surrounding run (2639, 2641, [ ], 2643) fix it as 2642. The same row's Gregorian Dies exempti cell reads 38, which is impossible against a column otherwise constant at 18. The second value is left as it stands, no correction being recoverable from the leaf. Preserved as printed.

**86. batch\_189 / folio 547, row 2670, mean-full-moon columns** — *Category B — source compositor error*

The row prints 20. 0 A for the Gregorian mean full moon and 27. 0 M for the Scaligerian. The two epacts of the row, 18 and 17, require the Gregorian day to stand one later than the Scaligerian, not seven earlier; structurally the Gregorian cell should read 28. 0 M, as row 2651 does. Only the faulty form is legible, so no correction is asserted. Preserved as printed.

**87. batch\_190 / folio 552, heading of the table of expanded-year epacts** — *Category C — author/source anomaly*

The table is headed "EPACTAE ANNORVM EXPANSORVM Cap. XIII.", although by its position and by the catchword of the page it belongs to Caput XXVIII, opened

on the preceding leaf. Almost certainly a label retained from the table's original appearance earlier in the Explicatio. Transcribed verbatim; not renumbered.

**88. batch\_193 / p.578, Progressus table, Anni column** — *Category B* — *source compositor error*

The Anni column jumps from 40,000,000,000 to 60,000,000,000, omitting the intervening member of the series. This is an absent row rather than a mis-set value: the eight rows on the leaf are otherwise complete and no cell has been disturbed. Preserved as printed.

**89. batch\_194 / p.564, the rule ad Quotientem addas vnitatem** — *Category C* — *author/source anomaly*

The rule as printed directs the reader to add the unit to the quotient. The computation it governs requires it to be added to the remainder of the division. Transcribed as printed and not corrected.

**90. batch\_195 / p.565, mnemonic verse, line 6** — *Category B* — *source compositor error*

The word is set Kuspidē, the K clearly formed and unmistakably a capital. This is a substitution of sorts, not a variant spelling. Because the tokens of this verse are load-bearing for the computation that follows, the word has been left exactly as set. Preserved as printed.

**91. batch\_199 / folio 578, the worked example for 1596** — *Category B* — *source compositor error*

The intercalary day falls on the sixth of the Kalends of March, as both the computation and the parallel passage on the preceding page require; the source prints Maij. A wrong month-name sort. Preserved as printed.

**92. batch\_204 / p.611, ANNI EXPANSI, row 10, column 4** — *Category B* — *source compositor error*

The cell stands between 53 and 55 and prints 64, where the run (48, [ ], 60) requires 54. A 6 set for 5. Preserved as printed.

**93. batch\_205 / p.614, index, reference for chapter VIII** — *Category B* — *source compositor error*

The reference follows that of chapter VII at p. 81 and repeats the reference already given for chapter VI. The correct figure is not recoverable from the page. Preserved as printed.

**94. batch\_208 / pp.624 and 628–629, index of the Explicatio — Category C — author/source anomaly**

Two classes of duplication stand in this index and both are the source's own. Under Caput XVII the entry on epact xviii and golden number 19 is set twice, word for word identical, with the references 338 and 339; a second pair ("Which of the thirteen lunations...") likewise appears twice, both times at p. 339. Separately, a near-identical entry is double-listed under two headwords with conflicting references — 74 under Anni Astronomici and 70 under Astronomici anni. All are transcribed as printed and none is merged.

**95. batch\_219 / p.656, left marginal note on the Easter of 1582 — Category B — source compositor error**

The note reads "Pascha an. 1582 ... quarta hebdomada, siue Luna 14". The fourth week runs from the twenty-second to the twenty-eighth moon, so the fourteenth cannot fall within it, and the body of the passage reads Luna xxiii. The figure required is about 23 or 24; the note as printed contradicts itself. Preserved as printed.

**96. batch\_226 / p.676, italic marginal note on the range of the equinox — Category B — source compositor error**

The note prints "...medium locum habere inter 23. die, & 10. ad quos usque excurrere potest...", while the body of the same passage reads "a die 19". Both are plainly set: a divergence between margin and text in the source. Recorded, not harmonized. Preserved as printed.

**97. batch\_227 / printed p.38, marginal biblical citation — Category C — author/source anomaly**

The note stands against the clause on idle words and the account to be rendered to God, whose source is Matthew 12:36 ("de omni verbo otioso"). The margin cites Matth. 11. Transcribed verbatim and not corrected.

**98. batch\_228 / p.683, marginal note against the body on the computists' lunar month — Category C — author/source anomaly**

The marginal note reads "...secundum Computistas, iusto maior", while the body of the passage states that the astronomers make the month greater than the computists' value ("cum eam omnes Astronomi statuant maiorem"). The two are not reconcilable as they stand. Left as the source has them.

**99. batch\_230 / printed pp.46–48, calendar, September panel header —**  
*Category B — source compositor error*

The panel head is set SEPTEMPFR. A fault of composition in the heading, transcribed verbatim and not corrected. Preserved as printed.

**100. batch\_231 / printed pp.51–113 of the Apologia and appendix, printed page numbers —** *Category B — source compositor error*

The printed page-numbers of these gatherings must not be used to establish sequence; in every instance below the catchwords, the signatures and the sense show the text to be continuous. A leaf numbered 53 carries the signature E ij, which — E standing on the leaf numbered 49 — places it at 51. A verso is numbered 54, repeating the number of a leaf two openings earlier, where the sequence requires 56. The following recto is numbered 55 where catchword-continuity from a leaf numbered 56 places it at 57. Three successive leaves are numbered 56, 55, 56, the recto standing lower than both flanking versos, although their content (April through December) is uninterrupted. One leaf is numbered 65 where the running sequence requires 95. Elsewhere the numbers jump from 110 straight to 113, the catchword "accideret" at the foot of 110 continuing directly as the first word of 113, so that nothing is lost. In the Refutatio three consecutive leaves image 15, 12 and 15 where 15, 16 and 17 are required, the catchword "sam es-" running into "sam esse propositionem" and the signatures b 2 and b 3 confirming the order. All preserved as printed.

**101. batch\_238 / printed p.71, panel A, Anni Domini column, row between 17400 and 17600 —** *Category B — source compositor error*

The column advances by 100 and the cell stands between 17400 and 17600, so 17500 is required; the source prints 17582. Confirmed as printed on the leaf. Preserved as printed.

**102. batch\_239 / printed p.75, excerpt from the equation table, Panel 4, row 4, year column —** *Category B — source compositor error*

The panel runs 31900, [ ], 32100, so 32000 is required; the source prints 22000, the ten-thousands digit set 2 for 3. Confirmed as printed on three independent readings. The fault neither propagates nor recurs: the next row prints 32100 and the other four panels of the row are correct. Preserved as printed.

**103. batch\_239 / printed p.75, Tabella Cycli Epactarum Perpetua, Band 2, cell D —** *Category B — source compositor error*

The band advances by 11, casting out 30, which requires 23 (xxij) here; the cell is set with a single leading x, a sort having been dropped. Self-correcting: Band 2 resumes at iij and Band 3's corresponding cell prints xxij correctly. Preserved as printed.

**104. batch\_251 / printed p.109, Paschal table, A.D. 329 (golden number 7, Luna XIII 30 Mar.), Plenilunia media, Day column** — *Category B* — *source compositor error*

The cell prints 33, which exceeds the greatest possible day of the calendar month. The intended value — most likely 29 or 30 — cannot be recovered with confidence from the page, and none is supplied. Preserved as printed.

**105. batch\_257 / global pp.767 ff. and 827 ff., pagination of the appendix pieces** — *Category C* — *author/source anomaly*

The appendix does not continue the volume's sequence but begins again at 1, as its signatures confirm — its second leaf is A 2 and its third A 3, so gathering A opens at what is the 767th leaf of the volume as bound. The Refutatio within it opens a further independent sequence, its divisional title-leaf unnumbered and its verso printed 2. Neither is a misprint: both are genuine structural restarts, and readers citing these pieces should give the piece as well as the page.

**106. batch\_258 / printed p.7, Laterculus cycli Solaris Liliani, row 14, second sub-column of Anni Christi** — *Category B* — *source compositor error*

Every other row of this sub-column stands exactly 2800 above the first sub-column and rises by 100 per row (... , 4001, [ ], 4201, ...); the printed 4110 satisfies neither rule. The digits are unambiguous. Self-correcting — the next row resumes at 4201. Preserved as printed.

**107. batch\_258 / printed p.8, Cyclus Solis Iulianus, row 15** — *Category B* — *source compositor error*

In this table the doubled letters mark the bissextile years of the twenty-eight-year cycle and therefore fall on rows 1, 5, 9, 13, 17, 21 and 25. Row 15 is not one of them, and the doubled letter printed there duplicates that of row 21. A doubled sort off the bissextile period. Preserved as printed.

**108. batch\_260 / printed pp.12–14 of the appendix, the sigla keying objection to reply** — *Category C* — *author/source anomaly*

The disputation keys each objection to its answer by a marginal letter repeated as an inline superscript. The keying is genuinely disordered: the siglum b is set twice

running on one page; the series restarts mid-flow, without any rubric, on the next; and on the third the letters run d, c, a, b, c, a, so that c recurs after d and both a and c stand twice on a single page. In every case the marginal letter and its inline superscript agree with each other, so the disorder is the source's and not an artefact of the setting of one or the other. Elsewhere in the appendix letters stand alone in the outer margin, one is set in the right margin where all its fellows are in the left, and one is an illegible solid mark. All are transcribed as printed and none is renumbered.

**109. batch\_263 / printed p.31, penultimate paragraph** — *Category B* — *source compositor error*

The clause reads "quo Pascha post Lunam xij. celebrari praecipitur". The identical canonical formula is set with xiiij. a dozen times on this page and throughout the appendix. The printed form is unambiguous — three minims after the x, i-i-j — so a minim has been dropped in composition. Preserved as printed.

**110. batch\_263 / printed p.33, Clavius's reply under siglum a** — *Category C* — *author/source anomaly*

The sentence gives the mean full moon as "9 April hor. 1½ post mer." and concludes "qui est dies 10. Aprilis". An hour and a half after noon on 9 April is not 10 April. The phrase prints plainly as "hor. 1½. post mer."; the oddity is in the source's own reckoning, and no emendation is proposed. Preserved as printed.

**111. batch\_265 / printed p.29, Clavius's paragraph continuing from p.28** — *Category B* — *source compositor error*

The text prints "cum Epacta 92." Epacts run from 0 to 30, so 92 cannot stand; the parallel clause immediately preceding gives the epacts 0, \*, 30 for golden numbers greater than 11, and the corruption is a transposition of 29. Preserved as printed.

**112. batch\_265 / printed p.29, the final reply BONA verba quaeso, mi Scaliger** — *Category B* — *source compositor error*

Scaliger's preceding paragraph carries both its rubric and its letter b; the reply that answers it follows directly with no CLAVIVS. heading and no siglum. The attribution is certain from the content, but the rubric has been omitted in the printing. Nothing has been supplied to the text. Preserved as printed.

**113. batch\_267 / printed p.35, Clavius's reply under siglum b** — *Category B* — *source compositor error*

The reply prints "ab anno 294. ad annum 3073" — a three-digit year standing in a series of four-digit tropical-period years, and an interval of 2779 where every neighbouring pair steps by 132 or 136 (2537 to 2673 = 136; 4817 to 4949 = 132). The same paragraph prints "ab anno 3471. ad annum 3609", an interval of 138, again breaking the spacing of the pairs on either side. Both were read identically both close up and on a view of the whole page. Preserved as printed.

**114. batch\_267 / printed p.35, Scaliger's reply** — *Category B — source compositor error*

The phrase reads "quae fit per 300. aut per 3012. annos". The two figures at issue throughout this appendix are Lilius's 300 and Clavius's 312 (or  $312\frac{1}{2}$ ), and 3012 answers to neither. The intended figure cannot be established from the ink, so none is supplied. Preserved as printed.

**115. batch\_268 / printed p.37, Scaliger's paragraph under siglum c** — *Category B — source compositor error*

The sentence reads "Epacta citimi termini erit xiiij. remotissimi xxv." Scaliger's own stated limits — the nearest paschal new moon at 7 March, the remotest at 4 April — each fall one day before the Gregorian limits and so answer to the epacts 24 and 25; the companion value on the same line is indeed xxv. A dropped x. Preserved as printed.

**116. batch\_269 / printed p.39, Tabula aequationis Epactarum, rows 2137 and 2269** — *Category B — source compositor error*

In row 2137 the Aur. Num. column reads a single right-set 0; a golden number runs from 1 to 19. In row 2269 the Cyclus Solis Iulian. column likewise reads 0, where that cycle runs from 1 to 28. Both readings are certain and both values are impossible. Preserved as printed.

**117. batch\_269 / printed p.39, Tabula aequationis Epactarum, Cyclus Solis Iulian. column, rows 2001, 3477, 4549, 4817** — *Category B — source compositor error*

The solar-cycle column advances by 20 (mod 28) across an interval of 132 years and by 24 across an interval of 136, a rule which twenty-four of the table's twenty-nine rows satisfy exactly. These four are the only breaks. Each was read twice with the same result; whether the fault is the compositor's or lies further back cannot be decided from the leaf. Preserved as printed.

**118. batch\_269 / printed p.41, nine-year comparison table, rows 1589 and 1592, Plenilunia media** — *Category B* — *source compositor error*

Row 1589 reads "0. A. H. 1": there is no day 0 of April, and the row's final column reads 3 where every other row reads 2. Row 1592 reads "27. A. H. 14", giving the month as Aprilis although both of the row's moon-date columns stand in March (28. M and 26. M). Both rows were read twice. Preserved as printed.

**119. batch\_270 / printed pp.42–44, the fifty-year and comparison tables (rows 1911, 2219, 2557, 2565, 2641, 2670)** — *Category B* — *source compositor error*

Six cells of these three leaves print a figure short of its leading digit or otherwise at odds with the row that must match it. Row 1911 gives H. as 1 where the Gregorian figure is 13 and the days omitted differ by one, so the Scaligerian day should be 12. Row 2219 gives the Gregorian epact as 3 where row 2238 — same golden number 16, same fourteenth moon, same days omitted — prints 13. Row 2557 prints 8 where row 2538 prints 28. On p. 43 row 2565 prints 6 against a Scaligerian 16 on identical days omitted, where the two figures must agree. On p. 44 row 2641 prints 3. A where the two other rows with epacts 26 and 29 print 13. A. Row 2670 prints 20. 0. A against a Scaligerian 27. 0. M. All preserved as printed.

**120. batch\_270 / printed pp.42–44, Plenilunia media column, sub-heads H. and M.** — *Category B* — *source compositor error*

The first sub-column beneath the head H. holds values as high as 31 and tracks the day of the adjacent Lunae xiiij column (p. 42, row 2219: fourteenth moon 31. M, Gregorian full moon 31. ...M), a separate month-letter following the second figure. The column is therefore functioning as a day, not an hour, and the same pair of heads is repeated at the top of all three tables. A reader taking the heads at face value will misread the whole column. Preserved as printed.

**121. batch\_271 / printed p.47, table of fifty-eight years, row 3615** — *Category B* — *source compositor error*

The row's Aur. numerus is 7 and its Litera Dom. the two-letter bissextile entry CB, both of which belong to 3616: the golden number of 3615 is 6, and 3615, not being divisible by four, cannot carry a double Dominical letter. It is the only row on the leaf whose golden number and Dominical letter both break their sequences. Preserved as printed.

**122. batch\_271 / printed p.47, table of fifty-eight years, rows 3621, 3641, 3648 and 3699** — *Category B* — *source compositor error*

Row 3621 gives the mean full moon as day 12, a break of six days in an otherwise self-consistent column. Row 3648 gives the Gregorian fourteenth moon as 2. M; the paschal fourteenth moon cannot fall on 2 March, its range being 21 March to 18 April. Row 3699 prints 8. M where the three other rows sharing its epact all print 28. M. And in row 3641 the Epactae Scalig. cell carries no ink at all — the ruled cell is empty, not abraded — so it has been left blank rather than completed by the rule that would supply it. All preserved as printed.

**123. batch\_271 / printed p.46, second Dies exempti panel head** — *Category B* — *source compositor error*

The second Dies exempti panel is headed "Dies exempti sec. aequat. Greg.", identical to the first. The parallel table on the preceding leaves heads its second panel "Dies exempti Cal. Scal." or "Dies exempti Scalig.", so the wrong head has been repeated here — with the consequence that every row of the second panel appears to repeat the first panel's values. Preserved as printed.

**124. batch\_273 / printed p.53, the Boethius and Pindar quotations** — *Category C* — *author/source anomaly*

The page sets "Eheu quam miseros tramite deuio / Abducit ignorantia" where the received Consolatio III m. 8 reads "Eheu quae miseros tramite devios / abducit ignorantia"; and it gives Pindar's φθονεποῖς where the received Nemean 8.21 has φθονεποῖσιν — not a shortened reading of a longer form, since the line ends at the period. Whether the divergences are Clavius's, his printer's, or his own source's cannot be determined. Both are given as the page has them and neither has been normalized toward the critical text.

**125. batch\_273 / printed p.53, Meo meo te pungam stilo** — *Category C* — *author/source anomaly*

Both instances of meo are clearly inked. The doubling may be a compositor's dittography or Clavius's own emphatic repetition — "with my own, my very own pen" — and the preceding clause, in which he undertakes to use arguments of his own rather than his colleagues', supports the emphatic reading. No emendation is asserted. Preserved as printed.

**126. batch\_274 / printed p.55, the nineteen-year shortfall, given twice** — *Category B* — *source compositor error*

In the PROBEMVS proof the deficit is set "hor. 1. minut. 27. sec. 32. tert. 42."; in the paragraph beginning SED quid dicemus de Hipparcho the same quantity is set "hor. 1. minut. 27. secun. 32. & Tert. 41." Both readings are unambiguous, so one

of the two is a substituted digit; the page gives no ground for deciding which. Both preserved as printed.

**127. batch\_274 / printed p.56, the reductio** — *Category B — source compositor error*

The reductio sets the new moon of 1292 on 20 March and that of 1595 on "die 31.", and then says the 1595 new moon follows the 1292 one by just as many days as the 1597 one precedes it, that is by twelve. From 20 to 31 March is eleven days, not twelve. Both "die 31." and "diebus 12." are clearly inked, and 32 March does not exist, so the sentence is defective as printed. Preserved as printed.

**128. batch\_274 / printed p.54, vsque ad annum 5000. legitime indicent Pascha celebrati** — *Category C — author/source anomaly*

The printed form is perfectly legible and celebrati is a real Latin form; it simply does not construe with indicent Pascha. The line-break falls inside the word, and the true reading — celebrandum, celebrandi, or a following word now lost — cannot be determined, so nothing is proposed. Preserved as printed.

**129. batch\_274 / printed p.54, the Virgil and Terence quotations** — *Category C — author/source anomaly*

The page sets "Et veterem in limo rana cecinere querelam" where Georgics I.378 reads "...ranae cecinere querelam", giving a singular rana against a plural verb; and "Quin male narrando possit deprauier" where Phormio 697 reads "quin male narrando possit depravarier". Neither has been normalized to the critical text, and no marginal citation for the Terence is supplied by the source.

**130. batch\_275 / printed p.57, the NAM paragraph against the statement twelve lines later** — *Category B — source compositor error*

The NAM paragraph reports Scaliger's rule as omitting the first day "in annis 132. secundum in 136. & tertium in 132.", while twelve lines later the same rule is stated as "aequatio per annos 132. 134. & 136. instituatur" — which is the form the following sentences require, since they assign eighteen hours to the first century, twelve to the second and six to the third. Almost certainly two wrong sorts in the first statement. Both preserved as printed.

**131. batch\_276 / global p.827, the Cicero quotation (De Divinatione)** — *Category C — author/source anomaly*

The quotation is set in a re-cast form — "sus rostro si humi A, litteram impresserit, inquit ille ... propterea suspicari quisquam sanus poterit" — against

the vulgate "num propterea suspicari poteris". Transcribed verbatim and not harmonized toward the critical edition.

**132. batch\_280 / printed p.13, Scaliger's corollary to proposition 6, second sentence** — *Category B — source compositor error*

The square on a diameter of 7 is 49, and the corollary's own tenfold comparison (490 to 49) requires 49. A transposition of digits, self-correcting: the later text of the same page and the preceding page both print 49. Preserved as printed.

**133. batch\_281 / printed p.16, Scaliger's proposition 17** — *Category C — author/source anomaly*

The proposition draws a line "parallela ipsi CD, per 13. primi". The drawing of a parallel through a given point is Euclid I.31; I.13 is the proposition on angles at a straight line. The citation is Scaliger's own and the printed number stands unchanged. Preserved as printed.

**134. batch\_282 / printed p.18, concluding step of the first demonstration** — *Category B — source compositor error*

The step immediately before it has just proved that GD and FD are incommensurable, and the conclusion drawn requires the same. The page nevertheless prints commensurabilis, with no in- prefix, in both of the overlapping images covering that span. The negative has been lost in composition. Preserved as printed.

**135. batch\_282 / printed p.18, the stated proportion** — *Category B — source compositor error*

The second antecedent is simply absent from the printed proportion. The sense requires "vt AF, ad CG", AF being double CG by the construction set out two clauses later. The missing term is supplied in angle brackets in the translation; the Latin is preserved as printed.

**136. batch\_284 / p.850, last line** — *Category C — author/source anomaly*

The line reads "cum in Gregorianum iam Ecclesia Catholica vbique susceptum sit". The syntax does not work: susceptum sit requires Gregorianum as its subject and an agent, that is ab Ecclesia. The in looks intrusive and an ab appears to have dropped out. The printed form is legible but the intended reading cannot be fixed with certainty, so nothing is emended. Preserved as printed.

**137. batch\_285 / printed p.9, column Vbi Germanus Lunam aequat., rows 3000 and 3300** — *Category B — source compositor error*

The asterisks register at 1800, 3000, 3300, 3800, 4700, 5000 and 5300, whereas Clavius's prose on the facing leaf names Germann's equation years as 1800, 3100, 3400, 3800, 4700, 5000 and 5300, and derives from that list the intervals 1300, 400 and 900. Table and prose conflict at exactly two rows; the column is not uniformly displaced, which is what a mis-set pair of marks would give. Preserved as printed.

**138. batch\_285 / printed p.7, row 3800, the H. and D. columns of the paired table** — *Category B — source compositor error*

In row 3800 the Gregorian H. reads 11 and Germann's 12, although the two halves agree everywhere else in the table; and the Gregorian D. reads 24 where the other three rows of epact xxj give 23. Both readings were verified. The fault is isolated: the columns resume agreement on the next row. Preserved as printed.

**139. batch\_288 / p.864, in Curia totius, totque excellentium Astronomorum** — *Category C — author/source anomaly*

As printed, totius governs nothing. Either totius orbis, with a noun lost, or a simple tot would give sense; both are conjectures, and the choice cannot be made from the page. Nothing is emended and the crux is flagged in the translation. Preserved as printed.

**140. batch\_290 / p.868, the Greek proverb with Castellani's letter-gloss** — *Category C — author/source anomaly*

The proverb is printed first as Δὶς κ τρὶς τὰ καλὰ, then glossed — "insert only K in the place which Λ wrongly occupies" — and then printed in its altered form, Δὶς κ, τρὶς κακά. The joke is the substitution of the single letter, and it is the whole point of the passage. An editor working from the received proverb alone would be tempted to restore καλὰ in the second instance and to delete the gloss as corrupt. Both forms are the author's and both are kept exactly as set.

**141. batch\_290 / p.869, Viète's lemma against Castellani's reply** — *Category C — author/source anomaly*

Viète's remonstrance, set in roman, and Castellani's reply, set in italic, differ in the penultimate vowel of the same Greek word — αἰ in the lemma, οἰ in the reply. Both were read closely on the leaf across the whole of the phrase and both are

certain. The two spellings should not be harmonized in either direction.  
Preserved as printed.