

Astronomiae reformatae tomi duo (The Two Tomes of Reformed Astronomy) — Editorial footnotes (draft)

Giovanni Battista Riccioli, S.J. (1598–1671). 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.
- **Missing-source lacuna.** A point where source text is missing, damaged, or illegible. The note states what should stand at the gap and points to an alternate witness where one is known.

#	Anchor	Cat.	Item
1	batch_024 / p.70	C	Solar-diameter table: three rows Riccioli himself labels "Enormiter falsae"
2	batch_033 / Moon's-shadow table	lacuna	"Sun Perigee" (☉ Perig.) row left intentionally blank in the source
3	batch_047 / p.140-141 (fol. 108-109)	B	Eclipse-duration table, Ordo 80: durations of 27h30' and 31h0' (impossible)
4	batch_056 / p.167	C	Ancient-eclipse catalogue "Tempus differ." column: values of 100 and 65 (> 60)

#	Anchor	Cat.	Item
5	batch_084 / fixed-star plate	C	Engraving anomaly: $\times 7$ Sagittarius cut where Cor Scorpil / Caput Ophiuchi rows fall ($\times 4$)
6	batch_090 / fol. ~265 (corrected-declination table)	B	Ursa Major bright shoulder-star printed "Pubhe" for "Dubhe"
7	batch_092 / fixed-star catalogue (1700)	C	Arcturus Decl. 1700 = $39^{\circ}36'$ and the repeated Lanx Australis/Borealis entry
8	batch_094 / p.282 (declination table)	B	1658 row degrees "41" against an otherwise-uniform 21° column
9	batch_097 / p.256 (Bullialdus annual-motion table)	B	"Albategnio ad Azophi" row: seconds-of-arc value 69 (> 60)
1 0	batch_099 / p.295 (Table I, 100 fixed stars)	B	Two RA-1700 column-jumps (Leonis cauda; Ophiuchi manus sinistra) and Persei "21 1"
1 1	batch_104 / fol. 277 (Crater catalogue)	B	"In dorto" for "In dorso"; stray latitude digit at "In medio cratere"
1 2	batch_151 / Tomus II, Tabulae Novalmagesticae	B	Division residue "gr.15.33"" (unit-order error) and Regulus Summa 15 vs cells totalling 16
1 3	batch_153 / p.459 (TAB. 11 appendix)	B	Pole 81 "Dies continuus" hours column = 31 (> 24)
1 4	batch_155 / fixed-star catalogue	lacuna	"Melinda" mark blank in the source
1 5	batch_165 / p.493 (TAB. 33)	B	Column 43, Virgo row 9: minutes "72" (> 60), i.e. "68 72"
1 6	batch_179 / Tomus II, EXPANSI Nodi table	C	EXPANSI Nodi column: $16'/18'/19'$ monotone break is a genuine source feature

1. batch_024 / p.70 — Category C — author/source anomaly

In the comparative table of apparent solar diameters ("Solis Diameter apparens ex aliorum Observatione"), three rows — Cysat ($36'/37'/40'$), Scheiner from the

Rosa Ursina (46'/50'/56'), and Staudacher (38' mean) — give values far exceeding any plausible solar diameter. These are not transcription or compositor errors: Riccioli prints them under his own rubric "Enormiter falsae" ("enormously false"), citing them precisely to reject them. Preserved as printed. (DRAFT)

2. batch_033 / Moon's-shadow table — *Missing-source lacuna*

The cell(s) in the Moon's-shadow table at the "☉ Perig." (Sun at perigee) row are blank in the printed source. The reconciliation pass confirmed this is an intentional blank, not scan loss or dropped content; preserved as printed. (DRAFT)

3. batch_047 / p.140-141 (fol. 108-109) — *Category B — source compositor error*

In the second embedded table of eclipse durations and tarryings (S = D Duratio / M Mora), Ordo 80 gives two "M" (tarrying-in-shadow) values — "Our men at Rome" 27h30' and Wendelen 31h0' — that exceed any physically possible eclipse duration. The figures are preserved as printed; they appear to be source/compositor errors (most likely the hours digit, e.g. a place-shift in an already-corrupt column). Preserved as printed. (DRAFT)

4. batch_056 / p.167 — *Category C — author/source anomaly*

In the catalogue of 19 ancient lunar eclipses, the "Tempus differ. I" column prints 100 for eclipse 19 (A.D. 136) and 65 for eclipse 7 (491 B.C.) — both above the sexagesimal limit of 60. The reconciliation pass judged these genuine source values rather than misreads: throughout this column the "Tempus differ." entries run roughly double the corresponding "Differentia comput." minutes, so the column tabulates a doubled time-of-difference that can legitimately exceed 60. Preserved as printed. (DRAFT)

5. batch_084 / fixed-star plate — *Category C — author/source anomaly*

On the fixed-star plate the engraver cut the glyph ♐ (Sagittarius) at four points where the Cor Scorp̃ii / Caput Ophiuchi rows belong. The reconciliation pass confirmed this as a genuine engraving anomaly in the source, not a transcription error; preserved as engraved. (DRAFT)

6. batch_090 / fol. ~265 (corrected-declination table) — *Category B — source compositor error*

The corrected-declination table prints the name of the bright shoulder-star of Ursa Major as "Pubhe," an apparent compositor transposition (P-for-D plus letter swap) of "Dubhe." Preserved as printed; the intended name is Dubhe. (DRAFT)

7. batch_092 / fixed-star catalogue (1700) — *Category C — author/source anomaly*

The reconciliation pass confirmed two features of this catalogue stretch as genuine print, not misreads: the 1700 declination of Arcturus reading $39^{\circ}36'$, and the repetition of the Lanx Australis / Lanx Borealis entry. Preserved as printed. (DRAFT)

8. batch_094 / p.282 (declination table) — *Category B — source compositor error*

In the declination table, the row "1658 November toward the end" prints the degrees of the 1660 declination as 41 where every neighbouring row (1656, 1657, 1659) reads $21^{\circ}49'$. Almost certainly a compositor's broken or dropped leading digit (41 for 21). Preserved as printed; arithmetically and by column context this should read 21. (DRAFT)

9. batch_097 / p.256 (Bullialdus annual-motion table) — *Category B — source compositor error*

In Bullialdus's Persian/Arabic annual-motion derivation table, the "Albategnio ad Azophi" row prints a seconds-of-arc figure of 69, exceeding the sexagesimal limit of 60. As a derived difference between two widely separated tables, this is plausibly a genuine source artifact rather than a misread. Preserved as printed. (DRAFT)

10. batch_099 / p.295 (Table I, 100 fixed stars) — *Category B — source compositor error*

In the right-ascension catalogue, two 1700 entries break the smooth $\sim 0^{\circ}33'/40\text{-yr}$ progression of their column: Leonis cauda reads $175^{\circ}25'34''$ (a $\sim 2.5^{\circ}$ jump from the 1660 value $172^{\circ}53'58''$), and Ophiuchi manus sinistra reads $259^{\circ}47'37''$ (a $\sim 17^{\circ}$ jump, impossible over 40 years). Both are genuine compositor leading-digit slips. The reconciliation pass also confirmed the Persei "21 1" entry as a genuine inked typo in the source. All preserved as printed. (DRAFT)

11. batch_104 / fol. 277 (Crater catalogue) — *Category B — source compositor error*

Two source slips in the Crater (the Bowl) star list, preserved as printed: the entry "In dorso" (on the back) is printed "In dorto"; and the entry "In medio cratere" carries an apparent stray digit "9" after the latitude minutes "0" (reading "14 0 9"), a likely compositor extra-digit. Preserved as printed. (DRAFT)

12. batch_151 / Tomus II, Tabulae Novalmagesticae — *Category B — source compositor error*

Two genuine source arithmetic/typographic errors in the Tabulae Novalmagesticae, distinct from the de-confabulated cells: a division residue printed "gr.15.33'" in which the unit order (degrees/minutes/seconds) is internally inconsistent; and a Regulus row whose printed Summa reads 15 while the constituent cells total 16. Preserved as printed. (DRAFT)

13. batch_153 / p.459 (TAB. 11 appendix) — *Category B — source compositor error*

In the appendix to TAB. 11 (length of the continuous day by pole elevation), the pole-81 row prints the "Dies continuus" Hours column as 31 (D. 139, H. 31, M. 36) — an hours value exceeding 24. A print/compositor error; preserved as printed. (DRAFT)

14. batch_155 / fixed-star catalogue — *Missing-source lacuna*

The "Melinda" mark is blank in the printed source. The reconciliation pass confirmed this as an intentional blank rather than scan loss; preserved as printed. (DRAFT)

15. batch_165 / p.493 (TAB. 33) — *Category B — source compositor error*

In TAB. 33 the cell at column 43, row 9 prints "68 72," with a minutes value of 72 that exceeds the sexagesimal limit of 60 and so cannot be a correct reading. By analogy with the neighbouring cells of the column it is almost certainly a compositor error for "68 32." Preserved as printed. (DRAFT)

16. batch_179 / Tomus II, EXPANSI Nodi table — *Category C — author/source anomaly*

In the EXPANSI Nodi column the sequence 16'/18'/19' breaks the otherwise-monotone progression. The reconciliation pass verified at native resolution that this break is a genuine feature of the printed table, not a transcription slip; preserved as printed. (DRAFT)