Fundamentum astronomicum: id est, nova doctrina sinuum et triangulorum — Editorial footnotes (draft)

Nicolaus Reimers Ursus (1551–1600). 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_006 / p.12	C	p. 12: the reduction of 6300 gives 378900, which needs a 15 the working does not print
2	batch_011 / p.22	C	pp. 22–23: Tables A and B are announced but not printed
3	batch_012 / p.23	C	p. 23, Example III: 'infra 70.' where the rule requires 60
4	batch_012 / p.24	C	p. 24: the sine of the penultimate minute exceeds the radius
5	batch_015 / p.29	C	pp. 29 and 31: the figure's lettering does not match the letters the text uses
6	batch_020 / p.40	C	pp. 40–41: the diameter labels T and X change places between the two figures
7	batch_027 / p.54	C	p. 54: the title promises four triangles; the page numbers its pairs II–IV and p. 55 has V
8	batch_037 / p.73	B	p. 73: 'maisre' for maiore

#	Anchor	Cat.	Item
9	batch_038 / p.75	C	p. 75: 'ſenſibilem' where the argument wants 'insensible'
10	batch_038 / p.76	C	pp. 75–76: the triangle is named 'A C B' on one page and 'A B C' on the next
11	batch_038 / p.75	C	pp. 75 and 77: the signature 'I 3' is printed twice
12	batch_039 / p.77	C	p. 77: the figure '63. 1[?]' against the words for 63° 10′
13	batch_039 / p.78	C	p. 78: the known right ascension is lettered both 'AG' and 'CE'
14	batch_041 / p.82	C	p. 82, Thesis VII: 'colore' where 'calore' may be meant
15	batch_043 / p.85	C	p. 85: the node's daily motion is put at 'a little less than 3″', but the period gives about 3.18′
16	batch_043 / p.86	C	pp. 86–87: προηγούμενα and ἑπόμενα are paired with the motions the reverse way from the usual
17	batch_045 / p.89	C	p. 89: an asterisk at 'ASTRONOMIAE' with no matching note on the plate
18	batch_045 / p.90	C	p. 90: 'Phronica' cannot be construed; 'S. & S.' is not expanded
19	batch_046 / p.91	C	p. 91: the node '86', where the outline's pattern gives 88
20	batch_046 / p.91	lacuna	p. 91: fraction numerators and one denominator not settled on this copy

1. batch_006 / p.12 — *Category C — author/source anomaly*

The working on p. 12 converts 6300 into 378900. Multiplied by 60, 6300 gives 378000; 378900 is 6315 × 60, so the result presupposes 15 more units than the column shows. A page check found no added 15 printed in the working. The figures are kept as printed.

2. batch_011 / p.22 — *Category C — author/source anomaly*

The text announces two tables, A and B, under 'Tabula' captions, but no table is set beneath either caption on pp. 22–23, and neither is among the three plates the copy carries (pp. 89–91). Whether they were omitted by the printer or never set cannot be told from this copy.

3. batch_012 / p.23 — *Category C — author/source anomaly*

The source prints 'infra 70.' (below 70). The rule stated in the same example takes the number below 60, and the number named next, 54, is 6 below 60; contextually this should be 60. Confirmed as printed and kept.

4. batch_012 / p.24 — *Category C — author/source anomaly*

The source prints the sine of the penultimate minute as 1,999,999,957, which exceeds the radius of 1,000,000,000 printed beneath it. The printed difference, 43, agrees with 999,999,957, so the leading 1 is presumably a slip for 9. Confirmed as printed and kept.

5. batch_015 / p.29 — *Category C — author/source anomaly*

The proof on p. 31 refers to the points F, L, D and K, but the figure on p. 29 does not carry the same set of letters; its fourth corner bears a letter that this scan does not separate between I and J. The text and figure are kept as printed.

6. batch_020 / p.40 — *Category C — author/source anomaly*

The two figures of pp. 40 and 41 belong to the same construction, but the labels T and X stand at opposite ends of the diameter in the two. A page check confirmed both as printed.

7. batch_027 / p.54 — *Category C — author/source anomaly*

The heading on p. 54 announces four triangles, but the page sets figures in pairs numbered II to IV, and a fifth, V, follows on p. 55. The count in the title does not match the figures printed.

8. batch_037 / p.73 — *Category B — source compositor error*

The source prints 'maisre' here; the construction, parallel with 'è minore' in the next clause, requires 'maiore'. At first sight the fourth sort could have been a damaged o, but a native-resolution page check found it a clean round s, so this is a compositor's error rather than damage to the copy. Preserved as printed, with [recte: maiore].

9. batch_038 / p.75 — *Category C — author/source anomaly*

The source calls the motion near the solstices 'ſenſibilem' (perceptible), but the next sentence calls the solstitial motion 'penè inſenſibili' (almost imperceptible), and problem II on the same page reserves 'magis ſenſibilem' for the climb near the equinoxes. 'Inſenſibilem' may be meant. Kept as printed.

10. batch_038 / p.76 — *Category C — author/source anomaly*

The same triangle is named 'A C B' on p. 75 and 'A B C' on p. 76. Both are kept as printed.

11. batch_038 / p.75 — *Category C — author/source anomaly*

Both p. 75 and p. 77 carry the signature 'I 3'; one of the two is a printer's duplicate. Both are confirmed as printed.

12. batch_039 / p.77 — *Category C — author/source anomaly*

The words give the quantity as 'ſexagintatrium graduum, cum ſextante' (63 degrees and a sixth, 63° 10′). The figure beside them is printed '63. 1' followed by a sort this scan does not settle. One cold reading takes it as 6, which would make figure and words disagree; the doubtful sort is left open.

13. batch_039 / p.78 — *Category C — author/source anomaly*

On p. 78 the same known right ascension is designated 'AG' in one place and 'CE' in another. Both are kept as printed.

14. batch_041 / p.82 — *Category C — author/source anomaly*

Thesis VII prints 'colore' (colour). The sense may call for 'calore' (heat); the two differ by one letter. Kept as printed.

15. batch_043 / p.85 — *Category C — author/source anomaly*

The text puts the daily motion at a little less than 3′, but the period it gives, 6798⅓ days, yields 360° ÷ 6798⅓ ≈ 3.18′ a day, a little more than 3′. Kept as printed.

16. batch_043 / p.86 — *Category C — author/source anomaly*

Here προηγούμενα is glossed 'in consequentia' and ἑπόμενα is tied to retrograde motion. In the usual astronomical pairing, τὰ προηγούμενα answers to in antecedentia (westward, retrograde) and τὰ ἑπόμενα to in consequentia (eastward). The text is kept as printed.

17. batch_045 / p.89 — *Category C — author/source anomaly*

The plate on p. 89 prints an asterisk at 'ASTRONOMIAE', but no note keyed to it appears anywhere on the plate.

18. batch_045 / p.90 — *Category C — author/source anomaly*

The plate on p. 90 prints 'Phronica', a word that cannot be construed as it stands, and the abbreviation 'S. & S.', which the plate does not expand. Both are kept as printed.

19. batch_046 / p.91 — *Category C — author/source anomaly*

The plate on p. 91 prints the node as 86, where the regular pattern of the outline gives 88. A page check confirmed 86 as printed.

20. batch_046 / p.91 — *Missing-source lacuna*

Many of the small fractions on the plate of p. 91 have numerators of about 10 px in this scan, and three independent readings could not separate 2 from 3 on 36 of them, or settle the denominator of '0 ½'. These stand as doubtful in the text. The plate's own halvings (each fraction sits under a value twice its own) constrain several readings, and only a second copy of the 1588 edition could settle the rest.