

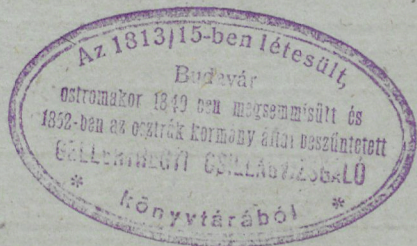
1838.

Manuale observationum
ad
Circulum Meridianum.



Konkoly-alapítvány
m. kir. Astrophisikai Observatorium Budapest.
Könyvtára.

Leltár sz. 3370 Csoport sz. _____
Naplótétel sz. 254
1929/30. I.



N.E.

Table with columns for celestial objects (e.g., Mrs. min, Saturn, Cor. bcc, Serpens, Uranus, Anctis, Mrs. min, Ceti, Luna, Persei, Tauri, Venus, Aurige) and numerical data points.

N.E.

Table with columns for celestial objects (e.g., Mrs. min, Tauri, Uranus, Venus, Aurige) and numerical data points, including some handwritten notes and calculations.

N.E.

| | | | | | | | | | | | | | | | |
|----------------------|------|-------|-------|------|------|----|---------|-----|----|----|----|------|------|-----------------------------|----------------------|
| 17. α Cor bor | 23.2 | 49.6 | 5.8 | 22.6 | 28.5 | 29 | 20.12. | 20 | 24 | 30 | 20 | 15.9 | 16.1 | 27.584 + 19.1 | |
| α Serpent. | 4.0 | 18.6 | 27.6 | 48.3 | 2.4 | 28 | 40.21. | 21 | 29 | 22 | 20 | 16.6 | 15.8 | +16.8. | |
| α Urs min. | 25.0 | 21.2 | 10.7 | 17.5 | 59.2 | | | | 46 | 47 | 50 | 49 | 21.0 | 14.9 | 27.592 + 17.0 + 12.8 |
| | | +13.2 | -12.7 | | | | 214.2. | 22 | 24 | 26 | 25 | 19.8 | 15.0 | 46. | -23 |
| | | 8.9 | 18.0 | | | | | 26 | 27 | 28 | 27 | 19.5 | 14.7 | 48. | 20 |
| | | | | | | | | 29 | 40 | 41 | 40 | 20.8 | 14.5 | 50. | 5 |
| | | | | | | | | 40 | 41 | 42 | 42 | 20.9 | 14.3 | 51. | 50 |
| | | | | | | | | 42 | 44 | 45 | 44 | 20.4 | 15.0 | 55. | 9 |
| | | | | | | | | 45 | 45 | 47 | 46 | 20.8 | 14.9 | 57. | 1 |
| | | | | | | | | 45 | 46 | 49 | 48 | 20.9 | 14.9 | 58. | 50 |
| | | | | | | | | 45 | 46 | 48 | 47 | 20.5 | 15.6 | 8. | 58 |
| α Arietis | 46.7 | 2.5 | 17.8 | 24.4 | 49.7 | 59 | 24.46. | 22 | 28 | 21 | 21 | 16.9 | 21.6 | 27.588 + 16.4 + 14.0. | |
| β Urs min | 38.8 | 22.0 | 29.2 | | | 52 | 30.2. | 19. | 12 | 10 | 12 | 21.0 | 17.6 | | |
| α Ceti. | 24.6 | 48.7 | 2.6 | 18.7 | 22.6 | 55 | 44.0. | 20 | 29 | 20 | 20 | 18.6 | 19.9 | 27.594 + 16.5 + 15.3 | |
| α Persei | 17.8 | 40.6 | 2.6 | 25.5 | 47.1 | 14 | 258.11. | 52 | 54 | 56 | 56 | 21.0 | 17.1 | +15.5 | |
| α Tauri | 21.8 | 27.0 | 51.9 | 7.5 | 22.4 | 28 | 21.17. | 17 | 15 | 17 | 18 | 18.2 | 18.0 | 27.589 + 17.3 + 17.4 | |
| Luna II. | 29.7 | 52.7 | 9.6 | 26.4 | 42.9 | 0 | 20.22. | 43 | | | | | | | |
| α Aurige | 16.7 | 27.7 | 58.5 | 19.6 | | 6 | 1.39. | 0 | 2 | 6 | 7 | 20.9 | 15.1 | | |
| Perse. II. | 23.9 | 48.7 | 4.5 | 20.4 | 25.6 | 9 | 26.15. | 58 | 56 | 58 | 0 | 18.2 | 17.4 | Centr. 27.588 + 17.5 + 19.1 | |
| β Tauri. | | | 17.6 | 24.5 | 50.6 | 17 | 19.0. | 23 | 21 | 22 | 22 | 19.9 | 15.9 | +19.2 | |
| | 29.6 | 44.7 | 49.1 | 14.0 | 28.5 | 8 | 55.50. | 43 | 29 | 42 | 42 | 19.1 | 24.1 | | |

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| | | | | | | | | | | | | | | | | |
|-----------------------|-------|-------|------|------|------|----|-------------|----|-------|----|------|------|------|------|----------------------|-----|
| 28. α Urs min. | 27.5 | 22.5 | 17.5 | 21.5 | 2.5 | | | | 53 | 52 | 55 | 54 | 16.9 | 26.1 | 27.353 + 13.8 + 9.3 | |
| | +12.4 | -24.7 | | | | | 219.2.75 | 25 | 26 | 27 | 19.5 | 22.8 | 4.6 | 18 | | |
| | 18.6 | 18.0 | | | | | | 28 | 29 | 40 | 41 | 20.1 | 22.0 | 48. | 22 | |
| | | | | | | | | 29 | 40 | 41 | 41 | 20.8 | 21.6 | 50. | 27. | |
| | | | | | | | | 45 | 45 | 47 | 47 | 20.9 | 21.6 | 57. | 50 | |
| | | | | | | | | 50 | 51 | 52 | 52 | 16.2 | 26.2 | 56. | 52 | |
| | | | | | | | | 52 | 51 | 52 | 52 | 16.2 | 26.2 | 59. | 27 | |
| | | | | | | | | 51 | 51 | 52 | 52 | 16.9 | 26.1 | 9. | 21 | |
| | | | | | | | | 42 | 41 | 42 | 44 | 19.9 | 22.9 | 16. | 28 | |
| α Arietis. | 47.4 | | 18.0 | 25.0 | 50.8 | 59 | 24.46. | 21 | 20 | 22 | 24 | 22.0 | 24.3 | | +10.0 | |
| α Ceti. | 49.4 | 4.9 | 18.6 | | | 55 | inter nubes | | | | | | | | | |
| 24. α Urs min. | 27.5 | 21.0 | 12.5 | 18.0 | 2.5 | | | | 50 | 50 | 52 | 51 | 21.7 | 24.0 | 27.359 + 13.2 + 9.0 | |
| | | | | | | | | | 319.2 | 29 | 40 | 42 | 41 | 17.3 | 27.4 | 47. |
| | | | | | | | | | | 41 | 42 | 44 | 42 | 18.3 | 26.4 | 49. |
| | | | | | | | | | | 44 | 44 | 47 | 46 | 19.0 | 26.9 | 51. |
| | | | | | | | | | | 47 | 47 | 48 | 46 | 20.1 | 25.0 | 54. |
| | | | | | | | | | | 48 | 49 | 52 | 50 | 21.0 | 24.2 | 56. |
| | | | | | | | | | | 49 | 49 | 52 | 50 | 21.0 | 24.1 | 59. |
| | | | | | | | | | | 48 | 49 | 51 | 50 | 21.4 | 24.3 | 8. |
| α Arietis. | 46.7 | 2.8 | 18.6 | 24.6 | 49.9 | 59 | 24.46. | 29 | 27 | 21 | 21 | 21.9 | 24.2 | | +9.8 | |
| β Orionis | 29.6 | 44.3 | 59.1 | 14.0 | 28.5 | 8 | 55 | 50 | 43 | 39 | 42 | 42 | 19.1 | 24.1 | 27.360 + 14.1 + 15.2 | |
| β Tauri. | 44.6 | 1.4 | 17.7 | 24.6 | 50.6 | 17 | 19.0. | 26 | 22 | 26 | 26 | 21.8 | 21.6 | | +16.6. | |

N. S.

Vener. L. II. 22.4 48.7 4.7 20.6 26.5 44 25.27. 44 47 45 45 21.2 21.8
a Orionis. 8.7 27.6 28.5 52.1 7.5 48 40.5. 29. 26 28 40 20.7 22.3 27.350 + 14.4 + 16.3

Circulus ad Occidentem.

31. Venerij II. 9. 6 25.5 41.4 57.4 12.8 20 304.59.25 25 27 27 21.7 23.0 Cent. 27.412 + 13.5 + 13.6

Urs. min. 46.2. 10.7 8 8 20.9 24.0 22 57

2. a Urs. mj. 26.3 38.5 29.8 1.6 36. 15 15 49 44 49 48 18.3 23.7

Lovij I. II. 26.5 40.6 5.4 20.5 24.8 2.1 218.12.8 7 10 7 19.1 21.8 Cent. 27.485 + 15.0 + 17.3
+ 16.9 - 14.6
+ 11.0 19.0

Betelgeuse 4.8 19.6 34.8 42 28.7 29 41 42 43 17.0 23.4

Urs. min. 44.5 11.4 24.7 59.7 24.6 47 7. 14. 12 11 12 12 16.7 22.0 27.481 + 15.4 + 17.6

a Urs. min. 48.0 49.5 41.0 42.5 28.0 62 61 64 64 21.3 18.0 27.410 + 13.5 + 17.1

F. 8 59 27
S. 15 45 20

44.10. 44 42 42 44 16.8 21.5 45. 15

49 48 48 49 17.3 21.9 47. 24

51 49 50 52 17.0 22.0 49. 10

54 52 54 54 17.0 22.0 51. 9

57 54 57 58 17.0 22.0 52. 45

59 57 60 60 17.0 22.0 55. 57

62 60 64 62 19.5 18.3 57. 39

63 61 64 64 20.7 18.8 7. 23

57 55 58 58 21.8 17.7 14. 50

Urs. min. 42.4 4.5 27.5 50.0 12.7 45 2.45. 60 60 62 62 19.5 20.0 + 17.3

a Bootis 5.6 18.6 24.5 49.8 5.6 10 332.40.28 40 42 42 19.1 20.7 27.467 + 15.2 + 17.1

a Bootis 42.5 58.5 12.5 28.7 43.7 47 297.18.14 10 14 12 19.2 21.0 27.470 + 15.1 + 16.9

N. S.

2. a Urs. min. 44.6 29.2 25.6 21.6 26.5 54 27.27.17 14 16 18 20.9 19.3 + 16.8

a Urs. min. 29.7 51.6 8.0 24.7 11.0 29 279.54.40.41 42 44 19.4 20.9

a Urs. min. 6.6 21.0 26.0 50.5 5.3 28 219.25.26 27 28 28 19.5 20.6 27.473 + 18.1 + 15.9

3. a Urs. min. 41.4 2.6 23.6 6 358.28.5 5 8 8 17.9 23.9

Betelgeuse 47.7 2.7 17.4 22.1 8 304.16.28 27 29 28 17.4 24.0 27.360 + 14.9 + 15.6

Betelgeuse 48.4 4.5 21.5 27.7 54.6 17 241.6.48 47 46 45 17.2 24.0 + 15.8

a Urs. min. 17 21 41.6 56.4 11.0 48 220.1.47 41 42 42 17.0 24.0 + 16.1

Urs. min. 28.9 42.0 47.5 56.5 8 4 6 8 17.0 22.7 24. 26'

46.2.7 59 1 2 17.9 22.9 36. 18'

8 4 6 6 17.3 22.0 19. 22'

7 7 5 6 17.9 22.8 29. 30'

Vener. L. II. 31.8 47.7 7.6 19.4 24.6 35 224.58.50 50 52 50 16.3 24.0 Cent. + 17.1

a Urs. min. 47.1 1.9 17.6 22.4 47.6 39 296.10.27 34 27 25 16.1 24.0 27.372 + 15.3 + 17.1

a Urs. min. 25.4 42.5 54.8 10.9 26.1 28 228.49.58 57 59 59 21.1 20.1 27.444 + 15.0 + 15.1

a Urs. min. 20.7 41.3 2.6 23.6 6 358.28.7 8 10 10 21.8 19.9

Betelgeuse 47.7 2.7 17.4 22.3 8 304.16.24 27 26 21 21.1 20.1 27.432 + 15.0 + 16.0

Betelgeuse 48.4 4.7 21.6 27.5 54.6 17 221.6.48 49 50 49 21.5 20.0 + 16.1

3. Urs. min. 20.6 49.3 0.6 15.2 29.9 26 222.16.22 25 26 25 14.5 21.7 Cent. 27.447 + 17.4 + 10.6

a Urs. min. 55.7 26.8 30.4 55 15.15.50 51 55 55 21.7 14.0 inter nub. + 20.9

Lovij I. 42.0 57.2 12.0 26.6 41.4 27 217.58.22 26 27 26 12.9 22.1 Cent. 27.408 + 17.3 + 21.2

Betelgeuse 25.3 50.2 5.4 20.5 35.6 42 224.7.38 40 41 41 12.6 22.1

Urs. min. 45.3 9.7 25.4 0.4 29.4 47 7.14.15 12 15 16 12.1 21.0 27.424 + 17.4 + 20.9

N. S.

Table with columns for dates (e.g., 44, 45, 46) and values (e.g., 12.6, 21.9, 27.423). Includes a sub-table with values like 7.0, 10.5, 14.9, 8.9.

Table with columns for dates (e.g., 10, 12, 15, 17) and values (e.g., 12.1, 20.6, 27.416). Includes entries like 'Moutij', 'Libra', 'Urs. min.', 'Satur. Cent.', 'Cor. bor.', 'Serpent.', 'Scorpio', 'Hercolij', 'Cygnus', 'Urs. min.'.

N. S.

Table with columns for dates (e.g., 28, 29, 30, 31) and values (e.g., 26.1, 41.0, 56.5). Includes entries like 'Tauri', 'Aurige', 'Orionis', 'Urs. min.'.

Table with columns for dates (e.g., 19, 20, 21, 22) and values (e.g., 7.4, 19.7, 25.7). Includes entries like 'Pener. I II', 'Cancer. I I', 'Libra', 'Urs. min.', 'Cor. bor.', 'Serpent.', 'Scorpio', 'Urs. min.', 'Tauri', 'Aurige', 'Orionis'.

N.S.

Table with columns for star names (e.g., alpha Orionis, beta Tauri), numerical values, and calculations. Includes handwritten notes like 'Centr.' and 'obs. nubibus interrupta'.

N.S.

Table with columns for star names (e.g., alpha Tauri, alpha Auriga), numerical values, and calculations. Includes handwritten notes like 'Centr.' and 'obs. nubibus interrupta'.

Aug
9.

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| | | | | | | | | | | | | | | | | | | |
|--------------------|--------|------|------|------|------|------|-----------|-------|----|----|------|------|--------|-----------|--------|--------|-------|-------|
| 57 | 50 | 50 | 50 | 12.5 | 26.4 | 57. | 20 | | | | | | | | | | | |
| 56 | 52 | 55 | 56 | 12.6 | 26.4 | 56. | 12 | | | | | | | | | | | |
| 55 | 54 | 57 | 57 | 12.6 | 26.3 | 58. | 41 | | | | | | | | | | | |
| α Cor bor. | 26.4 | 52.7 | 9.6 | 25.6 | 42.1 | 29 | 279.54.32 | 32 | 35 | 22 | 17.8 | 21.9 | 27.543 | +16.7 | +12.8. | | | |
| α Serpentis | 7.6 | 22.0 | 36.8 | 51.4 | 6.3 | 38 | 219.35. | 40 | 40 | 42 | 40 | 19.1 | 20.2 | | +13.6 | | | |
| α Scorpii | 16.5 | 32.3 | 48.6 | 4.7 | 21.0 | 21 | 286.37.26 | 22 | 25 | 24 | 18.7 | 21.3 | 27.572 | +15.5 | +12.9 | | | |
| α Herculis | 5.5 | 19.9 | 35.7 | 50.5 | 5.6 | 9 | 227.13.57 | 55 | 58 | 58 | 18.9 | 21.4 | 27.580 | +15.5 | +12.5 | | | |
| α Ophiuchi | 15.3 | 29.7 | 44.8 | 59.7 | 14.9 | 23 | 225.20. | 11 | 13 | 14 | 13 | 20.1 | 20.1 | | +12.3 | | | |
| δ Urs. min. | 58.0 | 57.7 | 6.2 | 11.0 | 16.2 | | | 21 | 20 | 20 | 22 | 21.0 | 20.1 | 27.589 | +15.1 | +11.5 | | |
| | 39.13. | 28 | 26 | 27 | 29 | 20.1 | 21.0 | 18. | | | | | | | | 12 | | |
| | | 22 | 21 | 22 | 24 | 20.9 | 20.1 | 21. | | | | | | | | 58 | | |
| | | 22 | 21 | 22 | 24 | 20.4 | 20.9 | 30. | | | | | | | | 49 | | |
| | | 27 | 24 | 25 | 28 | 19.7 | 21.9 | 34. | | | | | | | | 5 | | |
| α Tauri. | 26.5 | 41.2 | 56.6 | 11.6 | 26.7 | 28 | 228.49.57 | 57 | 57 | 59 | 22.0 | 22.9 | 27.603 | +12.6 | +11.3 | | | |
| α Aurigae | 21.6 | 41.7 | 3.4 | 22.8 | — | 6 | 298.28. | 8 | 7 | 8 | 9 | 21.7 | 22.8 | +12.7 | -22.4 | 18.5 | 16.0 | |
| β Orionis. | — | 48.6 | 3.4 | 17.9 | 22.7 | 8 | 204.16. | 35 | 34 | 34 | 34 | 21.2 | 22.0 | 27.616 | +13.7 | +12.1 | | |
| β Tauri. | 49.4 | — | 22.1 | 38.5 | 54.7 | 17 | 241.6. | 50 | 49 | 51 | 50 | 21.7 | 22.9 | per nubes | | +12.0 | | |
| α Orionis. | 12.3 | 27.6 | 42.7 | 57.2 | 11.5 | 48 | 220.1. | 45 | 46 | 47 | 46 | 20.6 | 22.5 | 27.617 | +14.0 | +12.5 | | |
| δ Urs. min. | 37.5 | 42.0 | 46.2 | — | — | | | 8 | 7 | 8 | 8 | 21.0 | 22.0 | 26. | | 43 | | |
| | | | | | | | | 46.2. | 2 | 0 | 0 | 1 | 21.6 | 22.0 | 18. | | 4 | |
| | | | | | | | | | 5 | 4 | 4 | 4 | 21.0 | 22.9 | 19 | | 58 | |
| | | | | | | | | | 7 | 6 | 6 | 7 | 20.9 | 22.4 | 22. | 27.617 | +14.2 | +12.2 |

Nulla admodum debilit.
J. 21 33 9
S. 6 49 10

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| | | | | | | | | | | | | | | | | | | |
|----|--------------------|------|------|------|------|------|------------------|--------|-------|----|----|------|------|--------|--------------|-------|-------|------|
| 9. | Sept. Oct. | 53.5 | 9.6 | 25.4 | 41.0 | 57.0 | 35 | 276. | 25.36 | 25 | 27 | 26 | 20.0 | 22.0 | lento. | | | |
| | α Can maj. | 47.7 | 2.5 | 17.9 | 32.0 | 48.5 | 39 | 296. | 10.47 | 44 | 47 | 46 | 21.0 | 22.0 | +13.5 | | | |
| | Ven. J. II | — | — | — | 7.6 | 23.6 | 6 ⁽⁶⁾ | 33.4 | 41.6 | 5 | 8 | 5 | 20.8 | 21.7 | entr. 27.611 | +14.5 | +14.3 | |
| | α Gemini | 59.2 | 16.1 | 22.7 | 50.7 | 7.5 | 26 | 244. | 53.2 | 4 | 7 | 4 | 20.1 | 22.1 | 27.611 | +14.5 | +14.4 | |
| | α Can min. | 27.6 | 51.8 | 6.9 | 21.6 | 25.9 | 32 | 218. | 17.25 | 36 | 36 | 36 | 20.1 | 22.0 | | | | |
| | β Perseus | 8.8 | 25.2 | 42.4 | 58.3 | 14.6 | 37 | 241. | 3.26 | 35 | 38 | 36 | 18.9 | 22.2 | | | +14.4 | |
| | α Urs. maj. | 55.6 | 26.6 | 58.5 | 29.7 | 1.5 | 56 | 15. | 15.50 | 47 | 48 | 50 | 21.5 | 16.3 | | | | |
| | Merc. J. I. | 11.6 | 27.9 | 40.7 | 55.7 | 10.3 | 3 | 218. | 22.22 | 23 | 24 | 22 | 16.9 | 20.6 | 27.566 | +16.5 | +20.6 | |
| | β Leonis | 24.5 | 49.8 | 4.8 | 19.7 | 25.3 | 42 | 228. | 7.39 | 40 | 42 | 42 | 12.6 | 21.3 | +7.3 | 13.9 | 9.5 | 7.6. |
| | γ Urs. maj. | 44.6 | 9.4 | 24.7 | 59.7 | 24.7 | 47 | 7.14. | 9 | 7 | 12 | 12 | 11.8 | 21.8 | | | +21.4 | |
| | δ Urs. min. | 53.4 | 52.5 | 45.0 | 49.5 | 74.5 | — | 11. | 9 | 0 | 4 | 3 | 12.0 | 18.0 | 27.581 | +18.8 | +21.7 | |
| | | | | | | | | 44.10 | 47 | 43 | 45 | 47 | 12.0 | 18.1 | 44. | | 45 | |
| | | | | | | | | 50 | 46 | 48 | 50 | 11.9 | 18.2 | 46. | | 55 | | |
| | | | | | | | | 52 | 49 | 50 | 51 | 11.9 | 18.2 | 48. | | 55 | | |
| | | | | | | | | 55 | 52 | 53 | 54 | 11.9 | 18.1 | 50. | | 30 | | |
| | | | | | | | | 57 | 54 | 57 | 58 | 11.9 | 18.0 | 53. | | 30 | | |
| | | | | | | | | 60 | 58 | 61 | 60 | 12.0 | 18.0 | 57. | | 4 | | |
| | | | | | | | | 11. | 2 | 0 | 3 | 3 | 12.0 | 18.0 | 59. | | 20 | |
| | | | | | | | | 25 | 25 | 26 | 26 | 21.8 | 13.0 | 27.595 | +17.4 | +17.3 | | |
| | | | | | | | | 39.13. | 30 | 29 | 30 | 31 | 21.8 | 13.0 | 18. | | 33 | |
| | | | | | | | | 26 | 25 | 27 | 27 | 21.8 | 19.0 | 22. | | 17 | | |
| | | | | | | | | 26 | 25 | 27 | 27 | 21.7 | 12.1 | 30. | | 9 | | |

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β Tauri. 45.4 2.0 18.7 35.4 49.4 17 19.8. 36 36 36 36 21.8 21.2 +11.7
 δ Orionis 29.5 44.0 58.5 17.4 27.6 25 48.1. 10 9 8 10 15.7 27.7
 ϵ Orionis. 49.0 59.7 14.4 28.8 45.1 29 48. 54. 19 14 20 19 15.9 28.0 +11.8
 α Orionis .9. 4 24.5 38.8 55.7 8.5 48 40. 13. 42 39 42 42 17.0 27.4 27.526+14.4+12.6
 Urs min. 76.2 29.5 49.0 46.2 34.0 25 25 26 25 19.9 24.0

22 7 0 269. 17. 28 28 28 29 22.0 21.9 18. 16
 7 50 48 25 26 26 25 20.0 24.0 27. 26
 26 26 28 27 20.7 22.1 30. 46
 28 27 30 28 21.1 22.6 32. 46
 27.524+14.6+13.9

α Canis maj. 44.7 59.5 14.6 30.2 44.7 39 64.4. 40 37 42 40 22.0 21.0 +18.4-13.7.
 12.4 19.1 +14.1
 Ant. Centr. 49.7 2.2 17.9 33.8 49.5 55 24.5. 35 33 35 38 22.0 21.2 Centr. 27.520+14.6+14.1
 α Gemin. seq. 55.7 12.7 29.7 46.9 2.7 26 15.22. 20 20 22 22 22.0 20.4 +15.6
 β Geminor 21.7 38.5 54.9 11.4 — 37 19. 11. 48 47 47 48 21.8 20.5
 Vener. h. II. 10.5 25.8 41.5 57.4 12.6 42 26. 23. 26 23 27 27 22.0 20.0 Centr. 27.524 + 15.0 + 16.3

17 α Uro. maj. 51.5 27.6 54.8 26.7 57.7 55 344. 59. 36 37 40 39 22.0 17.0 27.476 + 13.9 + 17.7
 Uro. h. I. 30.8 45.5 0.4 15.1 29.4 25 44. 56. 0 56 0 0 22.0 16.8 Centr. 27.473 + 16.0 + 17.8
 α Scorpii 11.5 27.9 44.0 0.6 16.5 21 73. 38. 3 1 2 2 22.0 16.1 27.442 + 16.7 + 16.4
 18. α Uro. maj. 49.5 21.7 59.6 25.5 56.5 55 344. 59. 28 38 40 40 22.0 17.7 27.550 + 15.7 + 15.5
 18 α Tauri. 20.3 35.2 50.4 5.7 20.6 28 31. 25. 30 26 29 30 21.1 21.7 27.616 + 14.2 + 10.7

α Auriga 14.7 35.6 56.8 17.7 — 6 1. 47. 18 17 19 21 22.0 21.3
 β Orionis. — 42.4 56.9 11.8 26.5 8 55. 58. 56 55 54 55 18.1 26.0 27.616 + 17.8 + 11.9

N. S.

β Tauri. 42.4 59.5 15.6 32.5 48.6 17 19.8. 37 35 36 38 22.1 22.5 +12.3
 δ Orionis — 41.4 55.6 10.5 24.7 25 48.1. 9 8 8 8 19.2 25.0
 ϵ Orionis. 42.2 56.9 11.6 26.2 40.5 29 48. 54. 12 11 12 12 22.4 22.0 +12.5
 α Orionis. 6.6 21.4 35.8 50.8 5.6 48 40. 13. 38 35 38 38 22.6 22.0 27.624+13.9+12.9
 Urs min. 72.4 — 40.0 44.4 52.5 22 21 24 22 22.6 21.7 +13.9

414.13. 27 27 28 28 23.0 21.1 17. 59
 +13.2 - 20.7
 14.2 14.0 28 27 29 27 22.9 21.6 19. 37
 24 22 25 22 22.7 21.6 23. 15
 24 23 26 24 22.8 21.5 30. 5
 F. 21 49 40
 S. 7 11 17

α Uro. maj. 44.1 56.5 11.6 26.8 41.5 39 64.4. 42 39 43 42 21.7 22.1 27.630+14.1+14.3
 α Geminor. 51.9 9.6 26.7 44.4 1.2 26 15. 22. 22 21 22 27 22.0 21.0 27.630+14.5+14.7
 α Can min 30.6 45.6 0.4 19.3 29.5 32 41. 57. 50 45 48 50 22.7 20.0
 β Geminor 2.0 18.7 35.4 51.8 8.4 37 19. 11. 49 47 46 48 22.0 20.6 +15.7
 Vener. h. II. 19.7 35.6 51.4 7.7 22.5 52 26. 43. 0 58 0 22.0 20.1 27.636+14.6+15.6

19. α Uro. maj. 48.5 20.3 51.5 23.7 54.7 55 344. 59. 35 37 39 38 22.8 17.0 27.620+15.8+16.6
 Uro. h. I. 29.6 44.5 58.7 13.5 27.8 33 346. 9. 0 56 0 0 18.0 21.7 27.616 + 16.0 + 16.6
 β Leonis 28.5 43.6 58.6 13.7 28.6 42 32. 7. 40 40 41 43 22.0 17.3
 γ Uro. maj. 36.7 7.0 27.9 52.6 18.3 47 353. 1. 10 10 14 13 22.0 17.0 +16.8

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