

# ALTITUDE CORRECTION TABLES 10°-90°—SUN, STARS, PLANETS

| OCT.—MAR. SUN |            |            | APR.—SEPT. |            |            | STARS AND PLANETS |                   |           |                              | DIP        |                   |            |                |
|---------------|------------|------------|------------|------------|------------|-------------------|-------------------|-----------|------------------------------|------------|-------------------|------------|----------------|
| App. Alt.     | Lower Limb | Upper Limb | App. Alt.  | Lower Limb | Upper Limb | App. Alt.         | Corr <sup>n</sup> | App. Alt. | Additional Corr <sup>n</sup> | Ht. of Eye | Corr <sup>n</sup> | Ht. of Eye | Ht. of Eye     |
| ° /           |            |            | ° /        |            |            | ° /               |                   |           |                              | m          |                   | ft.        | m              |
| 9 33          | +10.8      | -21.5      | 9 39       | +10.6      | -21.2      | 9 55              | -5.3              |           |                              | 2.4        | -2.8              | 8.0        | 1.0 - 1.8      |
| 9 45          | +10.9      | -21.4      | 9 50       | +10.7      | -21.1      | 10 07             | -5.2              |           |                              | 2.6        | -2.9              | 8.6        | 1.5 - 2.2      |
| 9 56          | +11.0      | -21.3      | 10 02      | +10.8      | -21.0      | 10 20             | -5.1              |           |                              | 2.8        | -3.0              | 9.2        | 2.0 - 2.5      |
| 10 08         | +11.1      | -21.2      | 10 14      | +10.9      | -20.9      | 10 32             | -5.0              |           |                              | 3.0        | -3.1              | 9.8        | 2.5 - 2.8      |
| 10 20         | +11.2      | -21.1      | 10 27      | +11.0      | -20.8      | 10 46             | -4.9              |           |                              | 3.2        | -3.2              | 10.5       | 3.0 - 3.0      |
| 10 33         | +11.3      | -21.0      | 10 40      | +11.1      | -20.7      | 10 59             | -4.8              |           |                              | 3.4        | -3.3              | 11.2       | See table<br>← |
| 10 46         | +11.4      | -20.9      | 10 53      | +11.2      | -20.6      | 11 14             | -4.7              |           |                              | 3.6        | -3.4              | 11.9       |                |
| 11 00         | +11.5      | -20.8      | 11 07      | +11.3      | -20.5      | 11 29             | -4.6              |           |                              | 3.8        | -3.5              | 12.6       | m              |
| 11 15         | +11.6      | -20.7      | 11 22      | +11.4      | -20.4      | 11 44             | -4.5              |           |                              | 4.0        | -3.6              | 13.3       | 20 - 7.9       |
| 11 30         | +11.7      | -20.6      | 11 37      | +11.5      | -20.3      | 12 00             | -4.4              |           |                              | 4.3        | -3.7              | 14.1       | 22 - 8.3       |
| 11 45         | +11.8      | -20.5      | 11 53      | +11.6      | -20.2      | 12 17             | -4.3              |           |                              | 4.5        | -3.8              | 14.9       | 24 - 8.6       |
| 12 01         | +11.9      | -20.4      | 12 10      | +11.7      | -20.1      | 12 35             | -4.2              |           |                              | 4.7        | -3.9              | 15.7       | 26 - 9.0       |
| 12 18         | +12.0      | -20.3      | 12 27      | +11.8      | -20.0      | 12 53             | -4.1              |           |                              | 5.0        | -4.0              | 16.5       | 28 - 9.3       |
| 12 36         | +12.1      | -20.2      | 12 45      | +11.9      | -19.9      | 13 12             | -4.0              |           |                              | 5.2        | -4.1              | 17.4       |                |
| 12 54         | +12.2      | -20.1      | 13 04      | +12.0      | -19.8      | 13 32             | -3.9              |           |                              | 5.5        | -4.2              | 18.3       | 30 - 9.6       |
| 13 14         | +12.3      | -20.0      | 13 24      | +12.1      | -19.7      | 13 53             | -3.8              |           |                              | 5.8        | -4.3              | 19.1       | 32 - 10.0      |
| 13 34         | +12.4      | -19.9      | 13 44      | +12.2      | -19.6      | 14 16             | -3.7              |           |                              | 6.1        | -4.4              | 20.1       | 34 - 10.3      |
| 13 55         | +12.5      | -19.8      | 14 06      | +12.3      | -19.5      | 14 39             | -3.6              |           |                              | 6.3        | -4.5              | 21.0       | 36 - 10.6      |
| 14 17         | +12.6      | -19.7      | 14 29      | +12.4      | -19.4      | 15 03             | -3.5              |           |                              | 6.6        | -4.6              | 22.0       | 38 - 10.8      |
| 14 41         | +12.7      | -19.6      | 14 53      | +12.5      | -19.3      | 15 29             | -3.4              |           |                              | 6.9        | -4.7              | 22.9       |                |
| 15 05         | +12.8      | -19.5      | 15 18      | +12.6      | -19.2      | 15 56             | -3.3              |           |                              | 7.2        | -4.8              | 23.9       | 40 - 11.1      |
| 15 31         | +12.9      | -19.4      | 15 45      | +12.7      | -19.1      | 16 25             | -3.2              |           |                              | 7.5        | -4.9              | 24.9       | 42 - 11.4      |
| 15 59         | +13.0      | -19.3      | 16 13      | +12.8      | -19.0      | 16 55             | -3.1              |           |                              | 7.9        | -5.0              | 26.0       | 44 - 11.7      |
| 16 27         | +13.1      | -19.2      | 16 43      | +12.9      | -18.9      | 17 27             | -3.0              |           |                              | 8.2        | -5.1              | 27.1       | 46 - 11.9      |
| 16 58         | +13.2      | -19.1      | 17 14      | +13.0      | -18.8      | 18 01             | -2.9              |           |                              | 8.5        | -5.2              | 28.1       | 48 - 12.2      |
| 17 30         | +13.3      | -19.0      | 17 47      | +13.1      | -18.7      | 18 37             | -2.8              |           |                              | 8.8        | -5.3              | 29.2       | ft.            |
| 18 05         | +13.4      | -18.9      | 18 23      | +13.2      | -18.6      | 19 16             | -2.7              |           |                              | 9.2        | -5.4              | 30.4       | 2 - 1.4        |
| 18 41         | +13.5      | -18.8      | 19 00      | +13.3      | -18.5      | 19 56             | -2.6              |           |                              | 9.5        | -5.5              | 31.5       | 4 - 1.9        |
| 19 20         | +13.6      | -18.7      | 19 41      | +13.4      | -18.4      | 20 40             | -2.5              |           |                              | 9.9        | -5.6              | 32.7       | 6 - 2.4        |
| 20 02         | +13.7      | -18.6      | 20 24      | +13.5      | -18.3      | 21 27             | -2.4              |           |                              | 10.3       | -5.7              | 33.9       | 8 - 2.7        |
| 20 46         | +13.8      | -18.5      | 21 10      | +13.6      | -18.2      | 22 17             | -2.3              |           |                              | 10.6       | -5.8              | 35.1       | 10 - 3.1       |
| 21 34         | +13.9      | -18.4      | 21 59      | +13.7      | -18.1      | 23 11             | -2.2              |           |                              | 11.0       | -5.9              | 36.3       | See table<br>← |
| 22 25         | +14.0      | -18.3      | 22 52      | +13.8      | -18.0      | 24 09             | -2.1              |           |                              | 11.4       | -5.9              | 37.6       |                |
| 23 20         | +14.1      | -18.2      | 23 49      | +13.9      | -17.9      | 25 12             | -2.0              |           |                              | 11.8       | -6.1              | 38.9       | ft.            |
| 24 20         | +14.2      | -18.1      | 24 51      | +14.0      | -17.8      | 26 20             | -1.9              |           |                              | 12.2       | -6.2              | 40.1       | 70 - 8.1       |
| 25 24         | +14.3      | -18.0      | 25 58      | +14.1      | -17.7      | 27 34             | -1.8              |           |                              | 12.6       | -6.3              | 41.5       | 75 - 8.4       |
| 26 34         | +14.4      | -17.9      | 27 11      | +14.2      | -17.6      | 28 54             | -1.7              |           |                              | 13.0       | -6.4              | 42.8       | 80 - 8.7       |
| 27 50         | +14.5      | -17.8      | 28 31      | +14.3      | -17.5      | 30 22             | -1.6              |           |                              | 13.4       | -6.5              | 44.2       | 85 - 8.9       |
| 29 13         | +14.6      | -17.7      | 29 58      | +14.4      | -17.4      | 31 58             | -1.5              |           |                              | 13.8       | -6.6              | 45.5       | 90 - 9.2       |
| 30 44         | +14.7      | -17.6      | 31 33      | +14.5      | -17.3      | 33 43             | -1.4              |           |                              | 14.2       | -6.7              | 46.9       | 95 - 9.5       |
| 32 24         | +14.8      | -17.5      | 33 18      | +14.6      | -17.2      | 35 38             | -1.3              |           |                              | 14.7       | -6.8              | 48.4       |                |
| 34 15         | +14.9      | -17.4      | 35 15      | +14.7      | -17.1      | 37 45             | -1.2              |           |                              | 15.1       | -6.9              | 49.8       |                |
| 36 17         | +15.0      | -17.3      | 37 24      | +14.8      | -17.0      | 40 06             | -1.1              |           |                              | 15.5       | -7.0              | 51.3       | 100 - 9.7      |
| 38 34         | +15.1      | -17.2      | 39 48      | +14.9      | -16.9      | 42 42             | -1.0              |           |                              | 16.0       | -7.1              | 52.8       | 105 - 9.9      |
| 41 06         | +15.2      | -17.1      | 42 28      | +15.0      | -16.8      | 45 34             | -0.9              |           |                              | 16.5       | -7.2              | 54.3       | 110 - 10.2     |
| 43 56         | +15.3      | -17.0      | 45 29      | +15.1      | -16.7      | 48 45             | -0.8              |           |                              | 16.9       | -7.3              | 55.8       | 115 - 10.4     |
| 47 07         | +15.4      | -16.9      | 48 52      | +15.2      | -16.6      | 52 16             | -0.7              |           |                              | 17.4       | -7.4              | 57.4       | 120 - 10.6     |
| 50 43         | +15.5      | -16.8      | 52 41      | +15.3      | -16.5      | 56 09             | -0.6              |           |                              | 17.9       | -7.5              | 58.9       | 125 - 10.8     |
| 54 46         | +15.6      | -16.7      | 56 59      | +15.4      | -16.4      | 60 26             | -0.5              |           |                              | 18.4       | -7.6              | 60.5       |                |
| 59 21         | +15.7      | -16.6      | 61 50      | +15.5      | -16.3      | 65 06             | -0.4              |           |                              | 18.8       | -7.7              | 62.1       | 130 - 11.1     |
| 64 28         | +15.8      | -16.5      | 67 15      | +15.6      | -16.2      | 70 09             | -0.3              |           |                              | 19.3       | -7.8              | 63.8       | 135 - 11.3     |
| 70 10         | +15.9      | -16.4      | 73 14      | +15.7      | -16.1      | 75 32             | -0.2              |           |                              | 19.8       | -7.9              | 65.4       | 140 - 11.5     |
| 76 24         | +16.0      | -16.3      | 79 42      | +15.8      | -16.0      | 81 12             | -0.1              |           |                              | 20.4       | -8.0              | 67.1       | 145 - 11.7     |
| 83 05         | +16.1      | -16.2      | 86 31      | +15.9      | -15.9      | 87 03             | 0.0               |           |                              | 20.9       | -8.1              | 68.8       | 150 - 11.9     |
| 90 00         |            |            | 90 00      |            |            | 90 00             |                   |           |                              | 21.4       |                   | 70.5       | 155 - 12.1     |

App. Alt. = Apparent altitude = Sextant altitude corrected for index error and dip.