

**U.S. Naval Observatory
Astronomical Applications Department**

Celestial Navigation Data

Celestial Navigation Data for 1937 Jul 2 at 4:59:00 UT

For Assumed Position: Latitude N 7 20.0
Longitude E 152 00.0

| Object | Almanac Data | | | | Altitude Corrections | | | |
|----------|--------------|----------|----------|-------|----------------------|------|-----|-------|
| | GHA | Dec | Hc | Zn | Refr | SD | PA | Sum |
| | ° ' " | ° ' " | ° ' " | ° | ' " | ' " | ' " | ' " |
| SUN | 253 49.0 | N23 04.7 | +43 18.7 | 295.0 | -1.1 | 15.7 | 0.1 | 14.8 |
| MARS | 128 02.6 | S20 02.3 | + 6 49.2 | 111.3 | -7.5 | 0.1 | 0.2 | -7.1 |
| ACRUX | 168 47.2 | S62 45.6 | +13 47.0 | 162.7 | -3.9 | 0.0 | 0.0 | -3.9 |
| ADHARA | 250 31.8 | S28 53.2 | +35 19.8 | 226.5 | -1.4 | 0.0 | 0.0 | -1.4 |
| ALDEBARA | 286 29.2 | N16 23.1 | +13 03.5 | 285.2 | -4.1 | 0.0 | 0.0 | -4.1 |
| ALIOTH | 161 44.7 | N56 18.1 | +29 07.4 | 27.3 | -1.8 | 0.0 | 0.0 | -1.8 |
| ALKAID | 148 17.6 | N49 37.7 | +24 55.1 | 38.1 | -2.1 | 0.0 | 0.0 | -2.1 |
| ALNILAM | 271 18.6 | S 1 14.4 | +26 16.3 | 265.0 | -2.0 | 0.0 | 0.0 | -2.0 |
| ALPHARD | 213 26.4 | S 8 23.3 | +73 22.1 | 199.1 | -0.3 | 0.0 | 0.0 | -0.3 |
| ALPHECCA | 121 33.1 | N26 55.5 | + 6 27.8 | 63.6 | -7.8 | 0.0 | 0.0 | -7.8 |
| ARCTURUS | 141 21.6 | N19 30.5 | +24 24.8 | 71.9 | -2.2 | 0.0 | 0.0 | -2.2 |
| AVIOR | 229 16.1 | S59 18.7 | +21 13.2 | 191.5 | -2.5 | 0.0 | 0.0 | -2.5 |
| BELLATRI | 274 07.5 | N 6 17.7 | +24 23.6 | 273.6 | -2.2 | 0.0 | 0.0 | -2.2 |
| BETELGEU | 266 37.4 | N 7 23.8 | +31 54.4 | 274.2 | -1.6 | 0.0 | 0.0 | -1.6 |
| CANOPUS | 258 56.1 | S52 39.7 | +16 07.1 | 209.4 | -3.4 | 0.0 | 0.0 | -3.4 |
| CAPELLA | 276 33.2 | N45 56.1 | +20 07.0 | 316.4 | -2.7 | 0.0 | 0.0 | -2.7 |
| DENEbola | 178 05.9 | N14 55.3 | +59 43.8 | 72.9 | -0.6 | 0.0 | 0.0 | -0.6 |
| DUBHE | 189 35.9 | N62 05.5 | +33 35.6 | 10.2 | -1.5 | 0.0 | 0.0 | -1.5 |
| ELNATH | 273 59.1 | N28 33.3 | +24 33.3 | 298.1 | -2.2 | 0.0 | 0.0 | -2.2 |
| GACRUX | 167 38.5 | S56 46.2 | +17 54.2 | 158.1 | -3.0 | 0.0 | 0.0 | -3.0 |
| GIENAH | 171 25.1 | S17 11.9 | +46 18.6 | 124.5 | -0.9 | 0.0 | 0.0 | -0.9 |
| HADAR | 144 42.6 | S60 04.7 | + 6 24.9 | 153.4 | -7.9 | 0.0 | 0.0 | -7.9 |
| KOCHAB | 131 50.6 | N74 24.9 | +10 45.6 | 15.4 | -5.0 | 0.0 | 0.0 | -5.0 |
| MENKENT | 143 48.7 | S36 04.0 | +15 53.9 | 130.8 | -3.4 | 0.0 | 0.0 | -3.4 |
| MIAPLACI | 216 26.9 | S69 27.9 | +12 58.8 | 183.0 | -4.2 | 0.0 | 0.0 | -4.2 |
| MIRFAK | 304 36.3 | N49 38.3 | + 1 20.3 | 319.9 | -19.9 | 0.0 | 0.0 | -19.9 |
| POLLUX | 239 11.8 | N28 10.7 | +53 54.8 | 309.2 | -0.7 | 0.0 | 0.0 | -0.7 |
| PROCYON | 240 33.7 | N 5 23.1 | +57 35.2 | 268.5 | -0.6 | 0.0 | 0.0 | -0.6 |
| REGULUS | 203 18.4 | N12 16.4 | +83 14.1 | 42.7 | -0.1 | 0.0 | 0.0 | -0.1 |
| RIGEL | 276 41.2 | S 8 16.3 | +19 46.7 | 258.4 | -2.7 | 0.0 | 0.0 | -2.7 |
| RIGIL KE | 135 43.3 | S60 35.0 | + 2 07.6 | 152.1 | -16.5 | 0.0 | 0.0 | -16.5 |
| SIRIUS | 253 58.3 | S16 37.8 | +38 36.4 | 241.8 | -1.2 | 0.0 | 0.0 | -1.2 |
| SPICA | 154 05.3 | S10 50.3 | +33 21.2 | 108.2 | -1.5 | 0.0 | 0.0 | -1.5 |
| SUHAIL | 218 08.8 | S43 11.0 | +38 38.9 | 189.5 | -1.2 | 0.0 | 0.0 | -1.2 |
| ZUBENELG | 132 42.4 | S15 47.1 | +11 58.8 | 107.9 | -4.5 | 0.0 | 0.0 | -4.5 |
| POLARIS | 329 17.5 | N88 57.7 | + 6 47.6 | 359.1 | -7.5 | 0.0 | 0.0 | -7.5 |
| ARIES | 354 34.1 | | | | | | | |



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