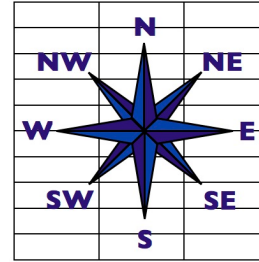


Interactive Spreadsheets for Celestial Navigation

<http://www.navigation-spreadsheets.com>



The spreadsheets available through this website are designed to increase the accuracy, reliability, and speed with which you can derive your position from sextant observations. The ubiquity of Microsoft Excel® and other compatible third-party software allows you to easily perform the requisite calculations on your computer, laptop, or a smartphone using this suite of spreadsheets.

For only US\$9.99, this suite can provide and process data essential in celestial navigation:

- Almanac data (calculation of Geographical Positions of main celestial bodies)
- Sextant altitude corrections
- Solutions of the navigation triangle (the Marcq St. Hilaire intercept method)
- Intersections of lines of position (direct two-body and many-body fixes)
- Running fixes
- Noon sights, noon curves, and meridian transits, including the effect of vessel motion
- Dead reckoning (DR) positions and a DR fix along a line of position
- Lunar distance clearing and UT recovery

Year	Month	Day	Hours	Minutes	Seconds
2011	01	01	12	00	00
GHA	Degrees	Minutes	Declination	Degrees	Minutes
	37	09.9	S 23		39.1
SD (')		HP (')		Age (d)	Phase (%)
15.7		57.6		27	9
#####					

This image shows the user part of the Moon almanac spreadsheet, which you may freely download and test on your computing platform.

Download link: <http://www.navigation-spreadsheets.com/uploads/moon.xls>

Alphabetical list of spreadsheets

1. **alt_corr**: sextant altitude corrections
2. **aries_stars**: GHA of Aries and GPs of 57 main navigation stars
3. **dr_fix_lop**: estimated position from a DRP and a celestial LOP
4. **dr**: dead reckoning position (DRP)
5. **intercept**: intercept and azimuth for the St. Hilaire method
6. **jupiter**: almanac data for Jupiter
7. **lops**: two-body fix (using spatial geometry)
8. **lunar_distance**: LD clearing and chronometer resetting
9. **many_body_fix**: multiple LOP fix calculation
10. **mars**: almanac data for Mars
11. **mercury**: almanac data for Mercury
12. **minutes**: conversion of fractional angles into minutes of arc
13. **moon**: almanac data for Moon
14. **neptune**: almanac data for Neptune
15. **noon_curve**: Sun LAN curve fix
16. **noon_motion**: Sun LAN curve fix with motion of the vessel
17. **noon_sight**: Sun LAN fix
18. **one_body_fix**: fix from a zenith distance and azimuth
19. **polaris_lha**: latitude from Polaris (LHA input)
20. **polaris**: latitude from Polaris (UT input)
21. **running_fix**: running fix (LOP1 advanced in time)
22. **saturn**: almanac data for Saturn
23. **sun**: almanac data for Sun
24. **time**: conversion of time data between formats
25. **transit**: fix from a meridian transit on a moving vessel
26. **two_body_fix**: two-body fix (using spherical trigonometry)
27. **uranus**: almanac data for Uranus
28. **venus**: almanac data for Venus