

BYGRAVE NAUTICAL ALMANAC FORM

Bygrave- Nautical Almanac form Body Sun
 DR Latitude 34-05 N Longitude 75-23 W
 Watch time 11-03-01 Local date 5-20-2011
 W.C. +/- +6 s
 Zone time 11-03-07
 Z.D. +/- +5
 GMT 16-03-07 Greenwich date 5-20-2011

| | |
|----------------|---------------------------------|
| Hs | <u>71-14</u> |
| IC +/- | <u>-2</u> |
| Dip - | <u>-3</u> |
| Ref. | <u>+15.6</u> |
| S.D. +/- | _____ |
| T&P +/- | _____ |
| Paralx + | _____ |
| Moon U.L. only | <u>-30</u> |
| Ho | <u>71-24.6</u> |
| Hc | <u>71-17</u> |
| INT. | <u>7.6 T</u> A Zn <u>134-51</u> |

Declination 20-00.0 N d +0.5 GHA 60-52.2 v _____
 Correction 0 <-----/
 Correction <-----/
 Increment 00-46.8
 SHA _____
 GHA 61-39.0
 A long 75-39.0 W
 Dec. 20-00 N A Lat 34-00 N LHA 346-00 H 14-00

BYGRAVE D 20-00 N H 14-00

| | | | |
|-------|---------|----------------------|---------------------|
| Cos | Tan | 90° (89° 60.0') | |
| Set 0 | Set D | LAT- <u>34-00 N</u> | |
| Set H | | Co-Lat <u>56-00</u> | |
| Set W | Set H | W +/- <u>+ 20-33</u> | |
| Set Y | | (179° 60') | |
| | Read W | X <u>76-33</u> | |
| | | Y <u>76-33</u> | |
| | | Az <u>45-09</u> | |
| | Read Az | Zn <u>134-51</u> | |
| | | Hc <u>71-17</u> | |
| ----- | | | |
| | Set Az | | If 270 < LHA < 90 |
| | Set Y | | and |
| Set 0 | | Set Y | Lat and D same name |
| | Read Hc | <u>ADD W</u> | |
| | | Otherwise | |
| | | SUBTRACT | |

H is LHA reduced to the range of 0° to 90°

| Azimuth Rules | | |
|----------------------------|----------------|----------------------|
| | North Latitude | |
| | 0 < LHA < 180 | < LHA < 360 |
| If DEC or W > LAT | Zn = 360 - Az | Zn = Az |
| If DEC contrary or W < LAT | Zn = 180 + Az | <u>Zn = 180 - Az</u> |
| | South Latitude | |
| If DEC or W > LAT | Zn = 180 + Az | Zn = 180 - Az |
| If DEC contrary or W < LAT | Zn = 360 - Az | Zn = Az |