

Name _____

Squadron _____



Body	Bearing (Approx.)	DR L	N S	DR Lo	E W
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Sight Number	HE	m ft.	Dip Short Distance and Accurate Bearing
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Date _____ yy-mm-dd WT _____ $WE \begin{matrix} f \\ s \end{matrix} \begin{matrix} - \\ + \end{matrix} ()$ _____ Corr. WT _____ ZD of WT () _____ E - W + GMT _____ Greenwich _____ yy-mm-dd	hs _____ IC () _____ Corr. hs _____ If Artificial Horizon, divide by 2. Dip (-) _____ ha _____ Alt. Corr. (±) _____ Ho _____	ALTITUDE CORRECTIONS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:30%;">Apply IC and Dip before taking out Main Correction</th> <th style="width:10%;">Sun UL LL</th> <th style="width:10%;">Moon UL LL HP _____</th> <th style="width:10%;">Star</th> <th style="width:10%;">Planet</th> </tr> <tr> <td>Main Correction</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Additional (Moon & Planets)</td> <td style="text-align: center;">x x</td> <td></td> <td style="text-align: center;">x x</td> <td></td> </tr> <tr> <td>Additional for UL only</td> <td style="text-align: center;">x x</td> <td style="text-align: center;">(- 30.0')</td> <td style="text-align: center;">x x</td> <td style="text-align: center;">x x</td> </tr> <tr> <td>Additional Refraction</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Total Altitude Correction</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Apply IC and Dip before taking out Main Correction	Sun UL LL	Moon UL LL HP _____	Star	Planet	Main Correction					Additional (Moon & Planets)	x x		x x		Additional for UL only	x x	(- 30.0')	x x	x x	Additional Refraction					Total Altitude Correction				
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SHA _____ GHA _____ hr. _____ m / s v () _____ v Corr. () _____ Total GHA _____ DR Lo $\begin{matrix} E (+) \\ W (-) \end{matrix}$ _____ LHA _____	Dec. (hour) _____ N S d (±) _____ d Corr. (±) _____ Dec _____ N S $LHA > 180 \dots tE = 360 - LHA$ $LHA < 180 \dots tW = LHA$ ☉ Sun ☾ Moon ♈ Aries ★ Star ♂ Mars ♀ Venus ♄ Saturn ♃ Jupiter	
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Meridian Angle, t _____ E _____ W Round t, D, and L to 3 decimal places. t _____ E _____ W D _____ N _____ S L _____ N _____ S Hc _____ Ho _____ a _____ M To _____ Away	<p style="text-align: center;">INTERCEPT and AZIMUTH by CALCULATOR</p> <p style="text-align: center;">Convert angles to decimal. Convert LHA to t E or W. Quadrant of Z is determined by t and L. (± D) Change sign of D to " - " when D and L are contrary in name.</p> $Hc = \sin^{-1} [\cos t \cos D \cos L + \sin(\pm D) \sin L] = \frac{\quad}{nn} \cdot \frac{\quad}{nnn} \quad \text{Round to 3 decimal places.}$ $Z = \cos^{-1} \left[\frac{\sin(\pm D) - \sin L \sin Hc}{\cos Hc \cos L} \right] = \begin{matrix} N \\ S \end{matrix} \frac{\quad}{nnn} \cdot \frac{\quad}{n} \begin{matrix} E \\ W \end{matrix} \quad \text{Round to 1 decimal place.}$ $Zn \quad \frac{\quad}{nnn} \cdot \frac{\quad}{n}$ ZNE ... Zn = Z ZSE ... Zn = 180° - Z ZNW ... Zn = 360° - Z ZSW ... Zn = 180° + Z
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Convert LHA to "t". Round all to whole minutes. t _____ E _____ W Dec _____ N _____ S Assign K same name as Dec K _____ N _____ S DR L _____ N _____ S K ~ L _____ Hc _____ Ho _____ a _____ M To _____ Away	<p style="text-align: center;">INTERCEPT and AZIMUTH by COMPACT SIGHT REDUCTION TABLE</p> <p style="text-align: center;">Do not use this method when K is between 82° and 98°.</p> A _____ B+ _____ A _____ A _____ B (-) _____ B _____ A _____ ← A _____ B+ _____ ← A _____ B (-) _____ $Zn \quad \frac{\quad}{nnn} \cdot \frac{\quad}{n}$ Z $\begin{matrix} N \\ S \end{matrix}$ _____ $\begin{matrix} E \\ W \end{matrix}$ A _____
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