



SUN SIGHT PRO FORMA																																					
<p>Date: <span style="border: 1px solid black; padding: 2px;">May 26, 2024</span></p> <p>EP/DR: <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">39°</td><td style="border: 1px solid black; padding: 2px;">54'</td><td style="border: 1px solid black; padding: 2px;">N</td></tr><tr><td style="border: 1px solid black; padding: 2px;">024°</td><td style="border: 1px solid black; padding: 2px;">28'</td><td style="border: 1px solid black; padding: 2px;">E</td></tr></table></p> <p>Sextant Reading  (lower / upper)</p> <p>Hight of Eye <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">3.5</td><td style="border: 1px solid black; padding: 2px;">m</td></tr></table></p> <p>Index Error <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">2.0</td><td style="border: 1px solid black; padding: 2px;">on</td><td style="border: 1px solid black; padding: 2px;">off</td></tr></table></p>	39°	54'	N	024°	28'	E	3.5	m	2.0	on	off	<p>Ship time <table style="display: inline-table; border-collapse: collapse;"><tr><th style="border: none;">h</th><th style="border: none;">m</th><th style="border: none;">s</th></tr><tr><td style="border: 1px solid black; padding: 2px;">09</td><td style="border: 1px solid black; padding: 2px;">12</td><td style="border: 1px solid black; padding: 2px;">24</td></tr></table></p> <p>(1) Long Time <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">01</td><td style="border: 1px solid black; padding: 2px;">37</td><td style="border: 1px solid black; padding: 2px;">52</td></tr></table></p> <p>UT time <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">10</td><td style="border: 1px solid black; padding: 2px;">50</td><td style="border: 1px solid black; padding: 2px;">16</td></tr></table></p> <p>Greenwich Date: <table style="display: inline-table; border-collapse: collapse;"><tr><th style="border: none;">m</th><th style="border: none;">d</th></tr><tr><td style="border: 1px solid black; padding: 2px;">5</td><td style="border: 1px solid black; padding: 2px;">26</td></tr></table></p> <p>Chronometer <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr></table></p> <p>Correction <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;"> </td></tr></table></p> <p>UT Sight <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">10</td><td style="border: 1px solid black; padding: 2px;">50</td><td style="border: 1px solid black; padding: 2px;">16</td></tr></table></p>	h	m	s	09	12	24	01	37	52	10	50	16	m	d	5	26							10	50	16
39°	54'	N																																			
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<p>Sex. Alt. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">08'</td><td style="border: 1px solid black; padding: 2px;">7</td></tr></table></p> <p>I.E. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">2'</td><td style="border: 1px solid black; padding: 2px;">0</td></tr></table> (off +, on -)</p> <p>(2) DIP <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">- 3'</td><td style="border: 1px solid black; padding: 2px;">3</td></tr></table> (+/-)</p> <p>Apparent Alt. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">07'</td><td style="border: 1px solid black; padding: 2px;">4</td></tr></table></p> <p>(3) Alt. corr. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">15'</td><td style="border: 1px solid black; padding: 2px;">2</td></tr></table></p> <p>True Alt. (Ho) <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">22'</td><td style="border: 1px solid black; padding: 2px;">6</td></tr></table></p>	50°	08'	7		2'	0		- 3'	3	50°	07'	4		15'	2	50°	22'	6	<p>(4) GHA h <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">330°</td><td style="border: 1px solid black; padding: 2px;">43'</td><td style="border: 1px solid black; padding: 2px;">6</td></tr></table></p> <p>(5) + Incr m <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">12°</td><td style="border: 1px solid black; padding: 2px;">34'</td><td style="border: 1px solid black; padding: 2px;">0</td></tr></table></p> <p>GHA <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">343°</td><td style="border: 1px solid black; padding: 2px;">17'</td><td style="border: 1px solid black; padding: 2px;">6</td></tr></table></p> <p>Ass. Long <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">-024°</td><td style="border: 1px solid black; padding: 2px;">17'</td><td style="border: 1px solid black; padding: 2px;">6</td></tr></table> (W-E+)</p> <p>LHA <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">319°</td><td style="border: 1px solid black; padding: 2px;">00'</td><td style="border: 1px solid black; padding: 2px;">0</td></tr></table></p>	330°	43'	6	12°	34'	0	343°	17'	6	-024°	17'	6	319°	00'	0			
50°	08'	7																																			
	2'	0																																			
	- 3'	3																																			
50°	07'	4																																			
	15'	2																																			
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330°	43'	6																																			
12°	34'	0																																			
343°	17'	6																																			
-024°	17'	6																																			
319°	00'	0																																			
<p>Assumed Latitude <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">40°</td><td style="border: 1px solid black; padding: 2px;">N</td></tr></table> S</p>	40°	N	<p>(4) Decl. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">21°</td><td style="border: 1px solid black; padding: 2px;">14'</td><td style="border: 1px solid black; padding: 2px;">7</td></tr></table> (N) S <span style="border: 1px solid black; padding: 2px;">d=0.4 +</span> (+/-)</p> <p>(5) d' <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">0'</td><td style="border: 1px solid black; padding: 2px;">3</td></tr></table> (+/-)</p> <p>Decl. <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">21°</td><td style="border: 1px solid black; padding: 2px;">15'</td><td style="border: 1px solid black; padding: 2px;">0</td></tr></table> (N) S</p>	21°	14'	7		0'	3	21°	15'	0																									
40°	N																																				
21°	14'	7																																			
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<p>(6) SRT Table <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">40°</td><td style="border: 1px solid black; padding: 2px;">/</td><td style="border: 1px solid black; padding: 2px;">21°</td><td style="border: 1px solid black; padding: 2px;">/</td><td style="border: 1px solid black; padding: 2px;">SAME</td></tr></table> <small>SAME if Ass. Lat and Decl are both N or S, CONTRARY when not</small></p> <p>LHA <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">319°</td><td style="border: 1px solid black; padding: 2px;">°</td></tr></table></p> <p>Hc' (6) <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">22'</td><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">d=36 (+/-)</td><td style="border: 1px solid black; padding: 2px;">Z = 106°</td></tr></table></p> <p>Correction (7) <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">9'</td><td style="border: 1px solid black; padding: 2px;"> </td><td style="border: 1px solid black; padding: 2px;">36 / 15</td><td style="border: 1px solid black; padding: 2px;">Decl' rounded to the nearest minute</td></tr></table></p> <p>Hc <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">31'</td><td style="border: 1px solid black; padding: 2px;"> </td></tr></table></p> <p>Ho <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">50°</td><td style="border: 1px solid black; padding: 2px;">22'</td><td style="border: 1px solid black; padding: 2px;">6</td></tr></table></p> <p>Intercept <table style="display: inline-table; border-collapse: collapse;"><tr><td style="border: 1px solid black; padding: 2px;">8'</td><td style="border: 1px solid black; padding: 2px;">4</td><td style="border: 1px solid black; padding: 2px;">To / Away</td><td style="border: 1px solid black; padding: 2px;">Zn = 106°</td></tr></table></p> <p><small>(difference Ho and Hc)      if Ho &lt; Hc, Away      if Ho &gt; Hc, To</small></p>		40°	/	21°	/	SAME	319°	°	50°	22'		d=36 (+/-)	Z = 106°		9'		36 / 15	Decl' rounded to the nearest minute	50°	31'		50°	22'	6	8'	4	To / Away	Zn = 106°									
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1. Position
2. Date/Time
3. Sextant Altitude – Apparent Altitude – Observed Altitude
4. GHA – Assumed Lon – LHA
5. Declination
6. Assumed Lat
7. SRT Keys
8. Hc
9. Intercept
10. Bearing

# Reduction Exercise Result

Full Morning Sight Reduction