

Sight Reduction Form NORIE's Nautical Tables / Calculator

Date	. . 20__	Body	☉ ☾ ★	HP	. '
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Location	LAT	° . ' N S	LONG	° . ' E W	Height of Eye	m ft
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Chronometer- Start Stop	. .	Sextant / Serial-No.:	. . .
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Stopwatch	± .	GHA für h	° . '
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Chr	Σ . .	Increment m s	+ ° . '
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Chronometer-Corr ⁿ	± . .	v = ± . '	Corr ⁿ ± . .
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UT	Σ . .	SHA	+ ° . '
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Sextant Altitude	° . '	GHA preliminary/finally	Σ ° . '
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Index Corr ⁿ	± . '	± 360° ?	± 360° 00.0'
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Sext. Alt. corr. for Index	Σ ° . '	GHA finally/amended	Σ ° . '
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DIP	- . '	LONG (E + / W -)	± ° . '
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Apparent Altitude	Σ ° . '	LHA resp. LHA _W	Σ ° . '
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Alt. Corr ⁿ	± . '	360°	360° 00.0'
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Alt. Corr ⁿ (additional)	± . '	- LHA	- ° . '
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H _o (height observed)	Σ ° . '	360° - LHA = LHA _E	Σ ° . '
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log cos LAT	. .	DEC for h	N S ° . '
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log cos DEC	+ . .	d = ± . '	Corr ⁿ ± . .
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log hav LHA	+ . .	DEC (finally)	N S Σ ° . '
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log hav y	Σ . .	LAT or DEC	° . '
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hav y	. .	± DEC or - LAT	± ° . '
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hav [LAT ± DEC]	+ . .	(± ^{contrary} same) LAT ± DEC	Σ ° . '
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hav z	Σ . .	LHA, LAT → A	± . .
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z	° . '	LHA, DEC → B	± . .
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90°	90° 00.0'	C = A + B	Σ ± . .
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-z	- ° . '	LAT, C → Z	N S ° E W
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90° - z = H _c	Σ ° . '	Zn (0 ... 360°)	. .
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a = H _o - H _c	± . .	a ≥ 0 towards away	Prof. Dr. Franka-Maria Mestemacher Kreuzer Yacht Club Deutschland
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$$Z = \begin{cases} Z & 360^\circ - Z \\ Z^n & \end{cases}$$

for rising body
for setting body

$$Z = \arccos \left[\frac{\sin DEC - \sin H_c \sin LAT}{\cos H_c \cos LAT} \right]$$

$$H_c = \arcsin [\sin LAT \sin DEC + \cos LAT \cos DEC \cos LHA]$$

$$LHA > 180^\circ$$

$$LHA < 180^\circ$$