

GREAT CIRCLE COMPUTE

Ref.	LIGHTNING CN		
EPLat	13 °	13'	(N/S)
EPLong	156 °	04'	(E/W)

GDate	Y	M	D
DWT	Hr	m	s
DWE-F/+S	Hr	m	s
UT	Hr	m	s

Hs	°	'	
IE			-On/+Off
HOE m	Dip	'	-
Ha	°	'	
Refr			-
PIA	°	'	+
SD	°	'	+LL/-UL
Ho	°	'	

Sextant Altitude Corrections Table

HOE m	for Dip	1	1.5	2.0	2.5	3.0	3.9	5.1	6.4	8.0	9.6
Correction	'	0.5	1.0	1.5	2.0	2.5	3	3.5	4.0	4.5	5.0
Hs °	for Refr 62	43	32	26	21	17.5	15	13	11.8	10.5	9.6

Almanac Lookup

	°	'	
	°	'	
	°	'	
	°	'	
	°	'	+
gha	°	'	
*sha	°	'	+
gha*	°	'	
0/360	°	'	-
GHA	157 °	58'	

diff
dec ° ' (')
correction ° ' (')
DEC 21 ° 20' (N/S)
= Pearl Harbour Lat

= Pearl Harbour Long (W)

Sight Reduction (by Haversine Version of Doniol Formula)

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t(a.m.)	359 ° 59'	ter
EPLong	°	W+/E-
GHA	°	-
0/360	°	-
t	°	'

t(p.m.)	
GHA	157 ° 58'
EPLong	156 ° 04' (W-/E+)
0/360	-
t	001 ° 54'

ZD	EPLat	13 °	13'
~	DEC	21 °	20'
S		08 °	07' x
A			
M	EPLat	13 °	13'
+	DEC	21 °	20'
		34 °	33' y

Zn
Use t for LHA on nomograph to get Z
[IF t > 90 THEN Use (180 - t)]
Zn is N/S 12 E/W = 348°T

hv(x) = n · 0050
hv(y) = p · 0882 +
n+p=q · 0932
1-q · 9868
hav(t) · 0003 *
n · 0003
n · 0050 +
hv(ZD) · 0053

90°	89 °	60'
ZD	8 °	21' -
Hc	81 °	39'
Ho	°	' ~
Intercept		

" " ZD =

Intercept ' T/A °T
Error West, Compass Best, gets
348T - 009E = 339C

ie 480+21 NM = 501 NM ✓