

3

ZT 15 12

DR L 22° 34.3' S
λ 39° 33.5' W

Ho 23° 15.9'

CT	06 17 13	ZT	Date
CE	4 51 f	ZD	
GMT		GMT	

GHA h
m & s
GHA ⊙
aλ
LHA

Dec.
d. ()
Dec.

aL

Ht
d ()
Hc
Ho
a

Rising/Setting

Dec.
Lat.

Z
Δz ()
Z
Zn



4

ZT 09 34

DR L 19° 31.9' S
λ 156° 37.3' W

Ho 59° 14.2'

CT	11 30 47	ZT	Date
CE	3 30 s	ZD	
GMT		GMT	

GHA h
m & s
GHA ⊙
aλ
LHA

Dec.
d. ()
Dec.

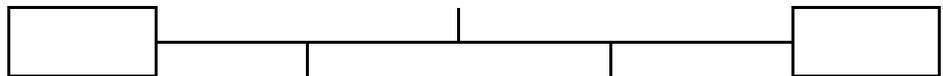
aL

Ht
d ()
Hc
Ho
a

Rising/Setting

Dec.
Lat.

Z
Δz ()
Z
Zn



5

ZT 06 04

DR L

21° 02.5' S

λ

97° 17.0' W

Ho

-13° 49.4'

CT	00 05 36	ZT	Date
CE	1 17 f	ZD	
GMT		GMT	

GHA h	
m & s	
GHA ⊙	
aλ	
LHA	

Dec.	
d. ()	
Dec.	

aL	
----	--

Ht	
d ()	
Hc	
Ho	
a	

Rising/Setting	
----------------	--

Dec.		Lat.	
------	--	------	--

Z	
Δz ()	
Z	
Zn	



6

ZT 15 52

DR L

22° 46.3' S

λ

178° 38.5' W

Ho

31° 58.9'

CT	03 40 51	ZT	Date
CE	11 31 s	ZD	
GMT		GMT	

GHA h	
m & s	
GHA ⊙	
aλ	
LHA	

Dec.	
d. ()	
Dec.	

aL	
----	--

Ht	
d ()	
Hc	
Ho	
a	

Rising/Setting	
----------------	--

Dec.		Lat.	
------	--	------	--

Z	
Δz ()	
Z	
Zn	



5 ZT 06 04 DR L 21° 02.5' S
 λ 097° 17.0' W Ho -13° 49.4'

CT	00 05 36	ZT	0604	Date
CE	1 17 f	ZD	+ 6	
GMT	12 04 19	GMT	1204	Same Date

GHA h	356° - 05.1'
m & s	1° - 04.8'
GHA \odot	357° - 09.9'
a λ	097° - 09.9' W
LHA	260° - 00.0'

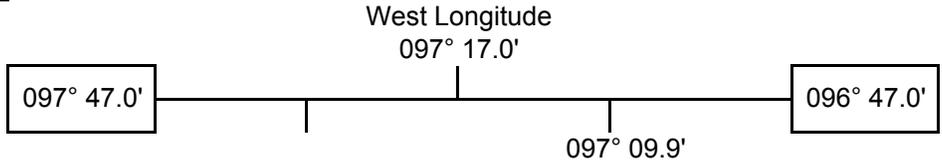
Dec.	N	13° 34.0'
d.	(0.8)	0.1'
Dec.	N	13° 34.1'

aL	21° S
----	-------

Ht	-13° 48.1'
d (-19.2)	-10.9'
Hc	-13° 59.0'
Ho	-13° 49.4'
a	9.7' T

Rising/Setting Rising
 Dec. north of Lat.

Z	098.8°
Δz (1)	0.6°
Z	099.4°
Zn	080.6°



6 ZT 15 52 DR L 22° 46.3' S
 λ 178° 38.5' W Ho 31° 58.9'

CT	03 40 51	ZT	1552	Date
CE	11 31 s	ZD	+ 12	
GMT	03 52 22	GMT	0352	Next Date

GHA h	221° - 34.3'
m & s	13° - 05.5'
GHA \odot	234° - 39.8'
a λ	178° - 39.8' W
LHA	056° - 00.0'

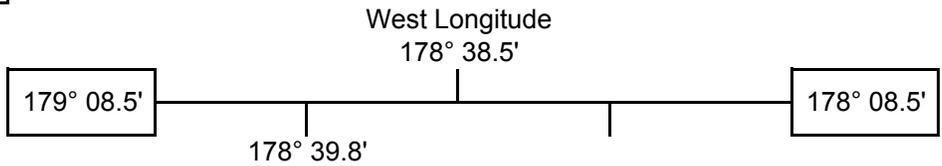
Dec.	S	2° 31.9'
d.	(1.0)	0.9'
Dec.	S	2° 32.8'

aL	23° S
----	-------

Ht	31° 52.5'
d (26.1)	14.3'
Hc	32° 06.8'
Ho	31° 58.9'
a	7.9' A

Rising/Setting Setting
 Dec. north of Lat.

Z	102.7°
Δz (-1.1)	-0.6°
Z	102.1°
Zn	282.1°



7

ZT 14 36

DR L

24° 41.5' S

λ

12° 50.2' W

Ho

53° 26.1'

CT	03 43 16	ZT	Date
CE	6 56 f	ZD	
GMT		GMT	

GHA h	
m & s	
GHA ⊙	
aλ	
LHA	

Dec.	
d. ()	
Dec.	

aL	
----	--

Ht	
d ()	
Hc	
Ho	
a	

Rising/Setting	
----------------	--

Dec.		Lat.	
------	--	------	--

Z	
Δz ()	
Z	
Zn	



8

ZT 13 04

DR L

27° 38.5' S

λ

124° 20.0' W

Ho

70° 52.6'

CT	05 14 07	ZT	Date
CE	9 51 f	ZD	
GMT		GMT	

GHA h	
m & s	
GHA ⊙	
aλ	
LHA	

Dec.	
d. ()	
Dec.	

aL	
----	--

Ht	
d ()	
Hc	
Ho	
a	

Rising/Setting	
----------------	--

Dec.		Lat.	
------	--	------	--

Z	
Δz ()	
Z	
Zn	



