



1	WT	h	m	s	date	body	Hs	°	'
	WE +S -F				DR Lat	log	index corr. + off - on		
	ZD +W -E				DR Lon	HE ft	DIP	-	
	UTC	h	m	s	UTC date / LOP label			Ha	°

2	GHA γ hr.	°	'
	GHA γ m.s.	+	°
	GHA γ	°	'
	a-Lon -W+E	°	'
LHA γ	°	'	
		00' W / 60' E	

North Latitudes
 LHA greater than 180° $Z_n = Z$
 LHA less than 180° $Z_n = 360° - Z$

South Latitudes
 LHA greater than 180° $Z_n = 180° - Z$
 LHA less than 180° $Z_n = 180° + Z$

3	LHA γ	°	'
	a-Lat	°	N S
	Star		

Pub. 249, Vol. 1

4	altitude corr. (refraction)	-	'
	Ho	°	'
	T		
	Hc	°	'

a =	TA
Zn =	
a - Lat =	
a - Lon =	

5

1	WT	h	m	s	date	body	Hs	°	'
	WE +S -F				DR Lat	log	index corr. + off - on		
	ZD +W -E				DR Lon	HE ft	DIP	-	
	UTC	h	m	s	UTC date / LOP label			Ha	°

2	GHA γ hr.	°	'
	GHA γ m.s.	+	°
	GHA γ	°	'
	a-Lon -W+E	°	'
LHA γ	°	'	
		00' W / 60' E	

North Latitudes
 LHA greater than 180° $Z_n = Z$
 LHA less than 180° $Z_n = 360° - Z$

South Latitudes
 LHA greater than 180° $Z_n = 180° - Z$
 LHA less than 180° $Z_n = 180° + Z$

3	LHA γ	°	'
	a-Lat	°	N S
	Star		

Pub. 249, Vol. 1

4	altitude corr. (refraction)	-	'
	Ho	°	'
	T		
	Hc	°	'

a =	TA
Zn =	
a - Lat =	
a - Lon =	

5