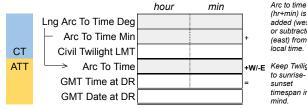
Sight Planning Form

Navigator Date LMT

	aeg	mın	
DR Lat			N/S
DR Lng			E/W

Find DR position on universal plotting sheet.

2. GMT Civil Twilight (CT)



added (west) or subtracted (east) from

+W/-E Keep Twilight to sunrisesunset timespan in

3.1. LHA Y (Gray Method)



1. DR Position

On daily page, lookup GHA Hr Y using the Civil Twilight LMT (cell CT), add minutes increment. This gives LHA Y.

3.2. LHA Y (Normal Method)

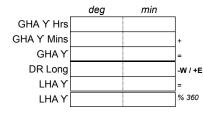


Nama

RA = Right Ascension = 360° - SHA

Zn = Azimuth = direction on horizon

Hc = Alt = angle off horizon



4. MOON (Optional)

		deg	min	
	GHA Hrs]
	GHA Mins]+
N	GHA Moon]=

3.2 & 4 - only if you want to planning Moon as well.

Use 3.2 when planning moon to get GHA Y. Subtract DR Lon from GHA Y (-W / + E) to determine LHA Y. You'll need GHA Y for Moon. Otherwise just use step 3.1

5 & 6. RIGHT ASCENSIONS

	VENUS		MARS		JUPITER		SATURN	
	deg	min _{N/S}	deg	min _{N/S}	deg	min _{N/S}	deg	min _{N/S}
Decl Hrs								
360°	359°	60°	359°	60°	359°	60°	359°	60°
- SHA								
RA								

	deg	min	N/S	_
				GHA Y (M)
				- GHA Moon (N)
Ī				RA

MOON

7. SIGHT PLAN HO 249 Vol1 & Finder (step 7-12)

	 Name	НС	Zn	Mag	Seq
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12	VENUS				
13	MARS				
14	JUPITER				
15	SATURN				
16	Moon				

Color Key Navigator Entry Almanac HO 249 Vol 1

X Copy from other

Step 8-10 for planets

Step 8: Draw in planets; use red plate on disk (mind the N/S lat sides).

Step 9: Dial in RA for planet (moon optional).

Step 10: In slot mark, mark planet, mind the NS direction (see note below).

Step 11-13 for stars (and planets)

Step 11: Switch to blue plate matching latitude (mind the N/S)

Step 12: Dial in LHA Y (result L)

Step 13: Red off Hc (Alt) & Zn (Az)

Note reg. red disk; When marking the body in the slot on the red disk, match the latitude. Towards center for same latitude, away for opposite. Eg. in North latitude, a N decl goes toward center, a S decl goes out.