

CELESTIAL PRECOMPUTATION

SHEET NO. _____

HO-249 PRECOMPUTATION - PERISCOPIC SEXTANT

NAVIGATOR _____

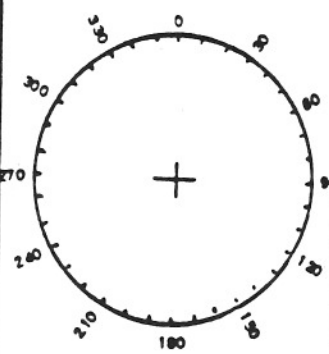
ALT MSL _____

DATE (#) _____

FIX TIME _____

Z

STAR SELECTION BY AZIMUTH



TRACK	°	BODY					
GS	K	BASE GHA					
CORIOLIS	R L	CORR					
PREC/NUT	NM /	SHA					
DR LAT	N S	GHA					
DR LONG	W E	ASSUM -W LONG +E					

MOTION OBSERVER	Polaris					LHA					
MOTION BODY						ASSUM LAT	° N S				
4 MIN ADJUST						DEC	N S	N S	N S	N S	N S
X TIME	E L	E L	E L	E L	E L	PLANNED TIME					
TOTAL MOT. ADJUST.						ACTUAL TIME					
POLARIS/MOON	PX SD					TAB H _c					
REFR						CORR ^D DEC					
PERS/SEXT						H _c					
TOTAL ADJ →						TOTAL → ADJ					
TH/GH	°	°	°	°	°	ADJ H _c					
Zn/GZn (-)	°	°	°	°	°	OFF TIME MOTION					
SRB	°	°	°	°	°	H _c					

REFRACTION TABLE (Condensed)

R ₀	ALTITUDE MSL (Thousands of Feet)					
	0	20	25	30	35	40
1	63°	46°	41°	36°	31°	26°
2	33°	19°	16°	14°	11°	9°
3	21°	12°	10°	8°	7°	5°
4	16°	8°	7°	6°	5°	3-10°
	12°	7°	5°	4°	3-10°	2-10°

SRB ₀	°	H ₀					
Zn/GZn (+)	°	INT	T A	T A	T A	T A	T A
TH/GH	°	Zn	°	°	°	°	°
T/G TRACK		CONV +W ANGLE -E	°	°	°	°	°
Zn		GRID Zn	°	°	°	°	°
REL Zn		TIME	TH/GH °	GYRO °	PP: LAT N S	PP: LONG W E	

CORIOLIS FACTOR (CF) TABLE

LATITUDE	10°	20°	30°	40°	50°	60°	70°	80° +
CF	.5	.9	1.3	1.7	2.0	2.3	2.5	2.6

CORIOLIS (NM) = (GSK + 100) X CF.
 EXAMPLE: LAT = 35° N; GS = 400K; CORIOLIS = 4 x 1.5 = 6 NM RIGHT.