Solar Meridian Passage

Sight Prediction Work Sheet			
1	Date		
2	DR Longitude EW		
3	DR Hours E-,W+		
4	LMT Meridian Pass		Almanac
5	GMT Meridian Pass		3 + 4
6	Zone Desc E+,W-		
7	Local Noon		5 + 6
8	DR Latitude N+,S-		
9	Declination N+,S-		Almanac
10	Zenith Distance		|8 - 9|
11	AM Time		7 - 10
12	PM Time		7 + 10
13	NS Speed T+,A-		
14	d Value T+,A-		Almanac
15	Δ Altitude /Hour + -		13 + 14
16	Δ Hours		10 / 30
17	Δ Altitude + -		15 x 16

Sight Data Sheet					
AM Time_____	Est. MP_____		PM Time_____		
Index Error_____	On / Off		Dip Height_____		
AM Alt	Time	Δ Alt	PM Alt	Time	Mer Pass
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
				Average	_____
Meridian Sextant Altitude _____					

Longitude Sight Reduction Work Sheet			
1	Date		
2	Watch Time Mer Pass		
3	Watch Error F-,S+		
4	Zone Time		
5	Zone Desc. E-,W+		
6	GMT		
7	Date Greenwich		
8	GHA Hours		Almanac
9	GHA Increment		Almanac
10	GHA (= Longitude W)		8 + 9
11	Longitude EW		

Latitude Sight Reduction Work Sheet			
1	GMT		
2	Date Greenwich		
3	Index Correction + -		On-, Off+
4	Dip Correction -	-	
5	Sum + -		3 + 4
6	Hs (Sextant Altitude)		Sextant
7	Apparent Altitude		5 + 6
8	Altitude Correction + -		Almanac
9	Ho		7 + 8
10	TZD		90° - 9
11	d Value		Almanac
12	Declination Hours		Almanac
13	d Correction		Almanac
14	Declination N+,S-		12 + 13
15	TZD +-		10
16	Latitude NS		14 + 15

North of Sun: TDZ Positive
South of Sun: TDZ Negative