

DE

b)

$$R = R_0 \times f$$

0.9 1.0 1.1 1.2
f

R			
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	4
4	4	4	5
5	5	5	6
5	6	7	7
6	7	8	8
7	8	9	10
8	9	10	11
9	10	11	12
11	12	13	14
13	14	15	17
14	16	18	19
16	18	20	22
18	20	22	24
22	25	28	30
27	30	33	36
31	35	38	42
36	40	44	48
40	45	50	54
45	50	55	60
49	55	60	66
54	60	66	72

0.9 1.0 1.1 1.2
f

Where R_0 is less than 10' or the height greater than 35 000 ft. use $R = R_0$.

Which the sextant altitude, unless nature. Use the

thern latitudes

60° 70° 80° 90°

12	14	14	14
14	15	16	16
15	16	17	17
16	17	18	18
17	18	19	20
18	20	21	21
19	21	22	22
20	22	23	24

STANDARD DOME REFRACTION

To be subtracted from sextant altitude when using sextant suspension in a perspex dome

Alt.	Refn.	Alt.	Refn.
10	8	50	4
20	7	60	4
30	6	70	3
40	5	80	3

This table must not be used if a calibration table is fitted to the dome, or if a flat glass plate is provided, or for non-standard domes.

BUBBLE SEXTANT ERROR

Sextant Number	Alt.	Corr.
	°	'

CORRECTIONS TO BE APPLIED TO MARINE SEXTANT ALTITUDES

CORRECTION FOR DIP OF THE HORIZON

To be subtracted from sextant altitude

Ht.	Dip	Ht.	Dip	Ht.	Dip	Ht.	Dip	Ht.	Dip
Ft.	'	Ft.	'	Ft.	'	Ft.	'	Ft.	'
0		114	11	437	21	968	31	1 707	41
2	1	137	11	481	21	1 033	31	1 792	41
6	2	162	12	527	22	1 099	32	1 880	42
12	3	189	13	575	23	1 168	33	1 970	43
21	4	213	14	625	24	1 239	34	2 061	44
31	5	250	15	677	25	1 311	35	2 155	45
43	6	283	16	731	26	1 386	36	2 251	46
58	7	318	17	787	27	1 463	37	2 349	47
75	8	356	18	845	28	1 543	38	2 449	48
93	9	395	19	906	29	1 624	39	2 551	49
114	10	437	20	968	30	1 707	40	2 655	50

CORRECTIONS

In addition to sextant error and dip, corrections are to be applied for:
Refraction
Semi-diameter (for the Sun and Moon)
Parallax (for the Moon)
Dome refraction (if applicable)

MARINE SEXTANT ERROR

Sextant Number

Index Error

LIST OF CONTENTS

Pages

Contents

Inside front cover	Star list (57 stars) and G.H.A. interpolation tables
Daily pages	Ephemerides of Sun, Moon, Aries and planets; moonrise and moonset
F1-F2 (flap)	Star chart
F3 (flap)	Star list (57 stars) and G.H.A. interpolation tables
F4 (flap)	Interpolation of moonrise and moonset for longitude, and star index
A1-A3	Title page, preface, etc.
A4-A17	Explanation
A18-A19	List of symbols and abbreviations
A20-A23	Standard times
A24-A73	Sky diagrams
A74-A75	Planet location diagram
A76-A79	Star recognition diagrams for periscopic sextants
A80-A87	Sunrise, sunset and civil twilight
A88-A93	Rising, setting and depression graphs
A94-A95	Semi-duration graphs of sunlight, twilight and moonlight, in high latitudes
A96	Index of star names
A97-A99	Star list, 173 stars (accuracy 0'.1)
A100-A101	Interpolation of G.H.A. Sun and G.H.A. Aries (accuracy 0'.1)
A102	Conversion of arc to time
A103	<i>Polaris</i> tables
A104	Corrections for (total) refraction and Coriolis (<i>Z</i>) table
Inside back cover	Corrections to marine sextant observations and dome refraction