

## EXPLANATION OF THE TABLES.

1. **Conversion Tables.** These tables are self-explanatory.
2. **Tables of Sunrise and Sunset.** To calculate sunrise and sunset at any place in New South Wales three tables have been prepared to give an accuracy of  $\pm 3$  minutes as follows :—

### Table 1. Local mean time of sunrise and sunset.

This shows, for each whole degree of latitude, the local mean time of sunrise and sunset on any meridian for the 1st day of each month, accurate to within 2 minutes. It also shows the difference between the time of sunrise or sunset for the 1st day of one month and 1st day of the succeeding month.

### Table 2. Correction for longitude.

This shows the correction which has to be applied to the figure given in table 1 to convert that time to Eastern Standard time. This table is accurate to the nearest minute.

### Table 3. Table of proportional parts.

This table gives a figure which has to be applied to the figure obtained from table 1, as corrected by table 2, and which will correct for the day of the month. By entering the table with the day of the month on the left hand side, and the difference obtained from table 1, across the top, the corresponding figure to be applied, may be read off in the body of the table. This figure is accurate to the nearest minute.

### Example. Time of sunrise and sunset on October 16th at CONDOBOLIN, N.S.W.

Lat.  $33^{\circ} 06' S$ . Long.  $147^{\circ} 10' E$ .

	Sunrise	Diff.	Sunset	Diff.
Table 1—Oct. 1st ..	0540	—38	1802	+23
Table 2— $147^{\circ} 10' E$ =				
+11 mins. ..	+11		+11	
	0551		1813	
Table 3—Oct. 16th ..	—19		+12	
	0532		1825	
Sunrise on Oct. 16th ..	0532 EST	Sunset on Oct. 16th	1825 EST	

## CONVERSION TABLES.

Nautical Miles  
to  
Statute Miles

Metres  
to  
Feet  
(Multiply by 3.275).

(Multiply by  $\frac{76}{66} = 1.151$ ).

Nautical Miles	Statute Miles	Metres	Feet
10	11.5	1	3.3
20	23	2	6.6
30	34.5	3	9.8
40	46	4	13
50	57.5	5	16.4
60	69	6	19.7
70	80.5	7	23
80	92	8	26.2
90	103.5	9	29.5
100	115	10	32.8
120	138	20	65.5
140	161	30	98.4
160	184	40	131
180	207	50	164
200	230	60	197
220	253	70	230
240	276	80	262.5
260	300	90	295
280	322	100	328
300	345	200	656
320	369	300	984
340	392	400	1312
360	414	500	1640
380	437	600	1968
400	461	700	2297
420	484	800	2625
440	507	900	2953
460	530	1000	3281
480	553	1500	4921
500	576	2000	6561
600	691	2500	8202
700	806	3000	9843
800	922	3500	11483
900	1037	4000	13123
1000	1152	4500	14764
		5000	16404

## CONVERSION FACTORS.

To convert	Into	Multiply by
Miles (Statute)	Kilometres	1.609
Miles (Nautical)	Kilometres	1.854
Kilometres	Miles (Statute)	0.621
Kilometres	Miles (Nautical)	0.5395
Gallons	Litres	4.546
Litres	Gallons	0.220
Pounds	Kilogrammes	0.454
Kilogrammes	Pounds	2.205