

**Table 2. TEMPERATURE CORRECTION, Metric Units** <sup>Ref. 1, 2, 3</sup>

To reduce the reading of the barometer to standard temperature

Temperature °C	Multiplier for Correction <sup>b</sup>	Observed Barometer Reading in Millimetres or Millibars <sup>c</sup>													
		400	450	500	550	600	620	640	660	680	700	720	740	760	
		ALL CORRECTIONS SUBTRACTIVE													
0	-.000000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1	.000163	.07	.07	.08	.09	.10	.10	.10	.11	.11	.11	.12	.12	.12	
2	.000327	.13	.15	.16	.18	.20	.20	.21	.22	.22	.23	.24	.24	.25	
3	.000490	.20	.22	.24	.27	.29	.30	.31	.32	.33	.34	.35	.36	.37	
4	.000653	.26	.29	.33	.36	.39	.40	.42	.43	.44	.46	.47	.48	.50	
5	-.000816	0.33	0.37	0.41	0.45	0.49	0.51	0.52	0.54	0.56	0.57	0.59	0.60	0.62	
6	.000979	.39	.44	.49	.54	.59	.61	.63	.65	.67	.69	.71	.72	.74	
7	.001142	.46	.51	.57	.63	.69	.71	.73	.75	.78	.80	.82	.85	.87	
8	.001305	.52	.59	.65	.72	.78	.81	.84	.86	.89	.91	.94	.97	.99	
9	.001468	.59	.66	.73	.81	.88	.91	.94	.97	1.00	1.03	1.06	1.09	1.12	
10	-.001631	0.65	0.73	0.82	0.90	0.98	1.01	1.04	1.08	1.11	1.14	1.17	1.21	1.24	
11	.001794	.72	.81	.90	.99	1.08	1.11	1.15	1.18	1.22	1.26	1.29	1.33	1.36	
12	.001957	.78	.88	.98	1.08	1.17	1.21	1.25	1.29	1.33	1.37	1.41	1.45	1.49	
13	.002119	.85	.95	1.06	1.17	1.27	1.31	1.36	1.40	1.44	1.48	1.53	1.57	1.61	
14	.002282	.91	1.03	1.14	1.25	1.37	1.41	1.46	1.51	1.55	1.60	1.64	1.69	1.73	
15	-.002444	0.98	1.10	1.22	1.34	1.47	1.52	1.56	1.61	1.66	1.71	1.76	1.81	1.86	
16	.002607	1.04	1.17	1.30	1.43	1.56	1.62	1.67	1.72	1.77	1.82	1.88	1.93	1.98	
17	.002769	1.11	1.25	1.38	1.52	1.66	1.72	1.77	1.83	1.88	1.94	1.99	2.05	2.10	
18	.002932	1.17	1.32	1.47	1.61	1.76	1.82	1.88	1.93	1.99	2.05	2.11	2.17	2.23	
19	.003094	1.24	1.39	1.55	1.70	1.86	1.92	1.98	2.04	2.10	2.17	2.23	2.29	2.35	
20	-.003256	1.30	1.47	1.63	1.79	1.95	2.02	2.08	2.15	2.21	2.28	2.34	2.41	2.47	
21	.003418	1.37	1.54	1.71	1.88	2.05	2.12	2.19	2.26	2.32	2.39	2.46	2.53	2.60	
22	.003580	1.43	1.61	1.79	1.97	2.15	2.22	2.29	2.36	2.43	2.51	2.58	2.65	2.72	
23	.003743	1.50	1.68	1.87	2.06	2.25	2.32	2.40	2.47	2.54	2.62	2.69	2.77	2.84	
24	.003905	1.56	1.76	1.95	2.15	2.34	2.42	2.50	2.58	2.66	2.73	2.81	2.89	2.97	
25	-.004067	1.63	1.83	2.03	2.24	2.44	2.52	2.60	2.68	2.77	2.85	2.93	3.01	3.09	
26	.004228	1.69	1.90	2.11	2.33	2.54	2.62	2.71	2.79	2.88	2.96	3.04	3.13	3.21	
27	.004390	1.76	1.98	2.20	2.41	2.63	2.72	2.81	2.90	2.99	3.07	3.16	3.25	3.34	
28	.004552	1.82	2.05	2.28	2.50	2.73	2.82	2.91	3.00	3.10	3.19	3.28	3.37	3.46	
29	.004714	1.89	2.12	2.36	2.59	2.83	2.92	3.02	3.11	3.21	3.30	3.39	3.49	3.58	
30	-.004875	1.95	2.19	2.44	2.68	2.93	3.02	3.12	3.22	3.32	3.41	3.51	3.61	3.71	
31	.005037	2.01	2.27	2.52	2.77	3.02	3.12	3.22	3.32	3.43	3.53	3.63	3.73	3.83	
32	.005199	2.08	2.34	2.60	2.86	3.12	3.22	3.33	3.43	3.54	3.64	3.74	3.85	3.95	
33	.005360	2.14	2.41	2.68	2.95	3.22	3.32	3.43	3.54	3.64	3.75	3.86	3.97	4.07	
34	.005521	2.21	2.48	2.76	3.04	3.31	3.42	3.53	3.64	3.75	3.87	3.98	4.09	4.20	
35	-.005683	2.27	2.56	2.84	3.13	3.41	3.52	3.64	3.75	3.86	3.98	4.09	4.21	4.32	
36	.005844	2.34	2.63	2.92	3.21	3.51	3.62	3.74	3.86	3.97	4.09	4.21	4.32	4.44	
37	.006005	2.40	2.70	3.00	3.30	3.60	3.72	3.84	3.96	4.08	4.20	4.32	4.44	4.56	
38	.006167	2.47	2.77	3.08	3.39	3.70	3.82	3.95	4.07	4.19	4.32	4.44	4.56	4.69	
39	.006328	2.53	2.85	3.16	3.48	3.80	3.92	4.05	4.18	4.30	4.43	4.56	4.68	4.81	
40	-.006489	2.60	2.92	3.24	3.57	3.89	4.02	4.15	4.28	4.41	4.54	4.67	4.80	4.93	
41	.006650	2.66	2.99	3.32	3.66	3.99	4.12	4.26	4.39	4.52	4.65	4.79	4.92	5.05	
42	.006811	2.72	3.06	3.41	3.75	4.09	4.22	4.36	4.50	4.63	4.77	4.90	5.04	5.18	
43	.006972	2.79	3.14	3.49	3.83	4.18	4.32	4.46	4.60	4.74	4.88	5.02	5.16	5.30	
44	.007133	2.85	3.21	3.57	3.92	4.28	4.42	4.56	4.71	4.85	4.99	5.14	5.28	5.42	
45	.007293	2.92	3.28	3.65	4.01	4.38	4.52	4.67	4.81	4.96	5.11	5.25	5.40	5.54	

b. Multiply the observed barometer reading by the appropriate multiplier, interpolated vertically as required, to obtain the temperature correction in the metric system accurately, without horizontal interpolation in the tables.



**Table 3. GRAVITY CORRECTION**<sup>Ref. 2, 3</sup>  
 To reduce the reading of the barometer to standard gravity

Latitude N or S	Multiplier for Correction <sup>d</sup>	Temperature Corrected Barometer Reading											
		Inches				Millimetres or Millibars <sup>c</sup>							
		15	25	30	32	400	500	600	700	800	900	1000	1100
		LATITUDE 0° TO 45° — THE CORRECTION IS TO BE SUBTRACTED LATITUDE 46° TO 90° — THE CORRECTION IS TO BE ADDED											
90°	+ .002593	+ .039	+ .065	+ .078	+ .083	+ 1.04	+ 1.30	+ 1.56	+ 1.82	+ 2.07	+ 2.33	+ 2.59	+ 2.85
85	.002553	.038	.064	.077	.082	1.02	1.28	1.53	1.79	2.04	2.30	2.55	2.81
80	.002433	.037	.061	.073	.078	.97	1.22	1.46	1.70	1.95	2.19	2.43	2.68
75	.002238	.034	.056	.067	.072	.90	1.12	1.34	1.57	1.79	2.01	2.24	2.46
70	+ .001974	+ .030	+ .049	+ .059	+ .063	+ 0.79	+ 0.99	+ 1.18	+ 1.38	+ 1.58	+ 1.78	+ 1.97	+ 2.17
68	.001850	.028	.046	.056	.059	.74	.93	1.11	1.30	1.48	1.67	1.85	2.04
66	.001717	.026	.043	.052	.055	.69	.86	1.03	1.20	1.37	1.55	1.72	1.89
64	.001576	.024	.039	.047	.050	.63	.79	.95	1.10	1.26	1.42	1.58	1.73
62	.001427	.021	.036	.043	.046	.57	.71	.86	1.00	1.14	1.28	1.43	1.57
60	+ .001270	+ .019	+ .032	+ .038	+ .041	+ 0.51	+ 0.64	+ 0.76	+ 0.89	+ 1.02	+ 1.14	+ 1.27	+ 1.40
58	.001107	.017	.028	.033	.035	.44	.55	.66	.78	.89	1.00	1.11	1.22
56	.000939	.014	.023	.028	.030	.38	.47	.56	.66	.75	.84	.94	1.03
54	.000766	.011	.019	.023	.024	.31	.38	.46	.54	.61	.69	.77	.84
52	.000588	.009	.015	.018	.019	.24	.29	.35	.41	.47	.53	.59	.65
50	+ .000408	+ .006	+ .010	+ .012	+ .013	+ 0.16	+ 0.20	+ 0.24	+ 0.29	+ 0.33	+ 0.37	+ 0.41	+ 0.45
49	.000317	.005	.008	.010	.010	.13	.16	.19	.22	.25	.29	.32	.35
48	.000226	.003	.006	.007	.007	.09	.11	.14	.16	.18	.20	.23	.25
47	.000134	.002	.003	.004	.004	.05	.07	.08	.09	.11	.12	.13	.15
46	+ .000042	+ .001	+ .001	+ .001	+ .001	+ 0.02	+ 0.02	+ 0.03	+ 0.03	+ 0.03	+ 0.04	+ 0.04	+ 0.05
45	- .000050	- .001	- .001	- .001	- .002	- 0.02	- 0.02	- 0.03	- 0.03	- 0.04	- 0.04	- 0.05	- 0.05
44	.000142	.002	.004	.004	.005	.06	.07	.09	.10	.11	.13	.14	.16
43	.000234	.004	.006	.007	.007	.09	.12	.14	.16	.19	.21	.23	.26
42	.000326	.005	.008	.010	.010	.13	.16	.20	.23	.26	.29	.33	.36
41	.000417	.006	.010	.013	.013	.17	.21	.25	.29	.33	.38	.42	.46
40	- .000508	- .008	- .013	- .015	- .016	- 0.20	- 0.25	- 0.30	- 0.36	- 0.41	- 0.46	- 0.51	- 0.56
39	.000598	.009	.015	.018	.019	.24	.30	.36	.42	.48	.54	.60	.66
38	.000688	.010	.017	.021	.022	.28	.34	.41	.48	.55	.62	.69	.76
37	.000776	.012	.019	.023	.025	.31	.39	.47	.54	.62	.70	.78	.85
36	.000864	.013	.022	.026	.028	.35	.43	.52	.61	.69	.78	.86	.95
35	- .000951	- .014	- .024	- .029	- .030	- 0.38	- 0.48	- 0.57	- 0.67	- 0.76	- 0.86	- 0.95	- 1.05
34	.001037	.016	.026	.031	.033	.41	.52	.62	.73	.83	.93	1.04	1.14
33	.001122	.017	.028	.034	.036	.45	.56	.67	.79	.90	1.01	1.12	1.23
32	.001205	.018	.030	.036	.039	.48	.60	.72	.84	.96	1.08	1.20	1.33
31	.001287	.019	.032	.039	.041	.51	.64	.77	.90	1.03	1.16	1.29	1.42
30	- .001367	- .021	- .034	- .041	- .044	- 0.55	- 0.68	- 0.82	- 0.96	- 1.09	- 1.23	- 1.37	- 1.50
28	.001523	.023	.038	.046	.049	.61	.76	.91	1.07	1.22	1.37	1.52	1.68
26	.001671	.025	.042	.050	.053	.67	.84	1.00	1.17	1.34	1.50	1.67	1.84
24	.001812	.027	.045	.054	.058	.72	.91	1.09	1.27	1.45	1.63	1.81	1.99
22	.001944	.029	.049	.058	.062	.78	.97	1.17	1.36	1.56	1.75	1.94	2.14
20	- .002067	- .031	- .052	- .062	- .066	- 0.83	- 1.03	- 1.24	- 1.45	- 1.65	- 1.86	- 2.07	- 2.27
18	.002180	.033	.054	.065	.070	.87	1.09	1.31	1.53	1.74	1.96	2.18	2.40
16	.002282	.034	.057	.068	.073	.91	1.14	1.37	1.60	1.83	2.05	2.28	2.51
14	.002374	.036	.059	.071	.076	.95	1.19	1.42	1.66	1.90	2.14	2.37	2.61
12	.002454	.037	.061	.074	.079	.98	1.23	1.47	1.72	1.96	2.21	2.45	2.70
10	- .002523	- .038	- .063	- .076	- .081	- 1.01	- 1.26	- 1.51	- 1.77	- 2.02	- 2.27	- 2.52	- 2.78
5	.002641	.040	.066	.079	.085	1.06	1.32	1.58	1.85	2.11	2.38	2.64	2.91
0	.002681	.040	.067	.080	.086	1.07	1.34	1.61	1.88	2.14	2.41	2.68	2.95

*d. Multiply the temperature corrected barometer reading by the appropriate multiplier, interpolated vertically as required, to obtain the gravity correction accurately, without horizontal interpolation in the tables.*

**Table 4. BAROMETRIC SEA LEVEL DIFFERENTIAL FOR STANDARD CONDITIONS**

Based on the ICAO standard atmosphere<sup>Ref. 3</sup>

Geopotential <sup>e</sup> feet	Sea Level Differential			Geopotential <sup>e</sup> metres	Sea Level Differential		
	in.	mm	mb		in.	mm	mb
	ALL CORRECTIONS ADDITIVE				ALL CORRECTIONS ADDITIVE		
0	0.000	0.00	0.00	0	0.000	0.00	0.00
10	.011	.27	.37	10	.035	.90	1.20
20	.022	.55	.73	20	.071	1.80	2.40
30	.032	.82	1.10	30	.106	2.70	3.60
40	.043	1.10	1.46	40	.142	3.60	4.80
50	.054	1.37	1.83	50	.177	4.49	5.99
60	.065	1.65	2.20	60	.212	5.39	7.19
70	.076	1.92	2.56	70	.247	6.29	8.38
80	.086	2.19	2.93	80	.283	7.18	9.57
90	.097	2.47	3.29	90	.318	8.07	10.77
100	0.108	2.74	3.66	100	0.353	8.97	11.96
200	.216	5.48	7.30	200	.703	17.85	23.80
300	.323	8.20	10.94	300	1.049	26.65	35.52
400	.430	10.92	14.56	400	1.392	35.36	47.14
500	.537	13.63	18.17	500	1.732	43.99	58.64
600	.643	16.33	21.78	600	2.068	52.53	70.03
700	.749	19.03	25.37	700	2.401	60.99	81.31
800	.855	21.72	28.95	800	2.731	69.37	92.49
900	.960	24.39	32.52	900	3.058	77.67	103.55
1000	1.066	27.07	36.08	1000	3.381	85.89	114.51
2000	2.100	53.35	71.12	2000	6.446	163.74	218.30
3000	3.105	78.86	105.13	3000	9.218	234.14	312.17
4000	4.079	103.62	138.15	4000	11.719	297.66	396.85
5000	5.025	127.64	170.18				
6000	5.943	150.95	201.26				
7000	6.833	173.56	231.40				
8000	7.696	195.49	260.63				
9000	8.533	216.74	288.97				
10000	9.344	237.35	316.44				
11000	10.130	257.31	343.05				
12000	10.892	276.66	368.84				

*e. The geopotential of a position in the lower atmosphere is very nearly equal to the elevation above sea level.*<sup>Ref. 3</sup>