

Errata - January 2007

AMCA 200-95

The charts on pages 43 and 44 have incorrect data in some of the columns. These charts should read like the charts on pages 2 and 3 of this document.

Annex B. Standard Atmospheric Data Versus Altitude Charts

Chart B.1A - SI Standard Atmospheric Data Versus Altitude (Corrected)*

Z Altitude	t Temperature	p Atmospheric Pressure	ρ Gas Density	μ Absolute Viscosity	ν Kinematic Viscosity	c Speed of Sound
m	°C	kPa	kg/m ³	Pa·s	m ² /s	m/s
0	15.00	101.32	1.230	1.793x10 ⁻⁵	1.456x10 ⁻⁵	340.43
100	14.35	100.13	1.215	1.790x10 ⁻⁵	1.473x10 ⁻⁵	340.05
200	13.70	98.94	1.201	1.786x10 ⁻⁵	1.487x10 ⁻⁵	339.66
300	13.05	97.77	1.189	1.784x10 ⁻⁵	1.500x10 ⁻⁵	339.28
400	12.40	96.61	1.177	1.780x10 ⁻⁵	1.512x10 ⁻⁵	338.89
500	11.76	95.46	1.166	1.777x10 ⁻⁵	1.524x10 ⁻⁵	338.51
600	11.11	94.32	1.155	1.774x10 ⁻⁵	1.536x10 ⁻⁵	338.19
700	10.46	93.20	1.145	1.771x10 ⁻⁵	1.546x10 ⁻⁵	337.73
800	9.81	92.08	1.134	1.768x10 ⁻⁵	1.559x10 ⁻⁵	337.34
900	9.16	90.98	1.123	1.765x10 ⁻⁵	1.571x10 ⁻⁵	336.95
1000	8.51	89.88	1.112	1.761x10 ⁻⁵	1.584x10 ⁻⁵	336.57
1100	7.86	88.80	1.102	1.758x10 ⁻⁵	1.595x10 ⁻⁵	336.18
1200	7.21	87.72	1.091	1.755x10 ⁻⁵	1.609x10 ⁻⁵	335.79
1300	6.56	86.66	1.080	1.751x10 ⁻⁵	1.621x10 ⁻⁵	335.40
1400	5.90	85.61	1.069	1.748x10 ⁻⁵	1.635x10 ⁻⁵	335.01
1500	5.25	84.56	1.058	1.745x10 ⁻⁵	1.649x10 ⁻⁵	334.62
1600	4.60	83.53	1.047	1.741x10 ⁻⁵	1.663x10 ⁻⁵	334.22
1700	3.95	82.50	1.037	1.738x10 ⁻⁵	1.676x10 ⁻⁵	333.83
1800	3.30	81.49	1.026	1.735x10 ⁻⁵	1.691x10 ⁻⁵	333.44
1900	2.65	80.49	1.016	1.732x10 ⁻⁵	1.705x10 ⁻⁵	333.05
2000	2.00	79.49	1.006	1.728x10 ⁻⁵	1.718x10 ⁻⁵	332.66
2100	1.35	78.51	0.996	1.725x10 ⁻⁵	1.732x10 ⁻⁵	332.26
2200	0.70	77.54	0.986	1.722x10 ⁻⁵	1.746x10 ⁻⁵	331.87
2300	0.53	76.57	0.976	1.718x10 ⁻⁵	1.760x10 ⁻⁵	331.48
2400	-0.60	75.62	0.967	1.715x10 ⁻⁵	1.774x10 ⁻⁵	331.08
2500	-1.25	74.68	0.957	1.712x10 ⁻⁵	1.789x10 ⁻⁵	330.69
2600	-1.90	73.74	0.948	1.708x10 ⁻⁵	1.802x10 ⁻⁵	330.29
2700	-2.55	72.82	0.938	1.705x10 ⁻⁵	1.818x10 ⁻⁵	329.90
2800	-3.20	71.91	0.929	1.702x10 ⁻⁵	1.832x10 ⁻⁵	329.50
2900	-3.85	71.00	0.919	1.699x10 ⁻⁵	1.845x10 ⁻⁵	329.10
3000	-4.50	70.11	0.909	1.695x10 ⁻⁵	1.865x10 ⁻⁵	328.71
3100	-5.15	69.23	0.900	1.692x10 ⁻⁵	1.880x10 ⁻⁵	328.31
3200	-5.80	68.35	0.890	1.689x10 ⁻⁵	1.898x10 ⁻⁵	327.51
3300	-6.46	67.48	0.880	1.685x10 ⁻⁵	1.914x10 ⁻⁵	327.11
3400	-7.11	66.62	0.871	1.682x10 ⁻⁵	1.931x10 ⁻⁵	326.70
3500	-7.76	65.77	0.862	1.679x10 ⁻⁵	1.948x10 ⁻⁵	326.70

* Chart B.1A is a corrected version of and replaces Chart B.1 on page 43.

Chart B.2A - I-P Standard Atmospheric Data Versus Altitude (Corrected)*

Z Altitude	t Temperature	p Atmospheric Pressure	ρ Air Density	μ Dynamic Viscosity	ν Kinematic Viscosity	c Speed of Sound
ft	°F	in. Hg	lbm/ft ³	lbm/ft-s	ft ² /s	ft/s
-1000	62.6	31.02	.0787	1.212×10 ⁻⁵	1.538×10 ⁻⁴	1120.7
-500	60.8	30.47	.0776	1.208×10 ⁻⁵	1.556×10 ⁻⁴	1118.8
0	59.0	29.92	.0765	1.205×10 ⁻⁵	1.576×10 ⁻⁴	1116.9
500	57.2	29.38	.0754	1.202×10 ⁻⁵	1.595×10 ⁻⁴	1115.0
1000	55.4	28.86	.0743	1.198×10 ⁻⁵	1.614×10 ⁻⁴	1113.1
1500	53.7	28.33	.0732	1.195×10 ⁻⁵	1.633×10 ⁻⁴	1111.1
2000	51.9	27.82	.0721	1.192×10 ⁻⁵	1.653×10 ⁻⁴	1109.2
2500	50.1	27.32	.0710	1.189×10 ⁻⁵	1.673×10 ⁻⁴	1107.3
3000	48.3	26.82	.0700	1.185×10 ⁻⁵	1.694×10 ⁻⁴	1105.3
3500	46.5	26.33	.0689	1.182×10 ⁻⁵	1.714×10 ⁻⁴	1103.4
4000	44.7	25.84	.0679	1.179×10 ⁻⁵	1.735×10 ⁻⁴	1101.4
4500	43.0	25.37	.0669	1.175×10 ⁻⁵	1.757×10 ⁻⁴	1099.5
5000	41.2	24.90	.0659	1.172×10 ⁻⁵	1.778×10 ⁻⁴	1097.5
5500	39.4	24.43	.0649	1.169×10 ⁻⁵	1.800×10 ⁻⁴	1095.6
6000	37.6	23.98	.0639	1.165×10 ⁻⁵	1.823×10 ⁻⁴	1093.6
6500	35.8	23.53	.0630	1.162×10 ⁻⁵	1.846×10 ⁻⁴	1091.7
7000	34.0	23.09	.0620	1.158×10 ⁻⁵	1.869×10 ⁻⁴	1089.7
7500	32.3	22.65	.0610	1.155×10 ⁻⁵	1.892×10 ⁻⁴	1087.7
8000	30.5	22.22	.0601	1.152×10 ⁻⁵	1.916×10 ⁻⁴	1085.7
8500	28.7	21.80	.0592	1.148×10 ⁻⁵	1.904×10 ⁻⁴	1083.8
9000	26.9	21.39	.0583	1.145×10 ⁻⁵	1.965×10 ⁻⁴	1081.8
9500	25.1	20.98	.0574	1.142×10 ⁻⁵	1.990×10 ⁻⁴	1079.8
10000	23.3	20.58	.0565	1.138×10 ⁻⁵	2.015×10 ⁻⁴	1077.8

* Chart B.2A is a corrected version of and replaces Chart B.2 on page 44.