

Speed of sound in air at various altitudes:

Elevation		US Std Atmosphere ¹⁾				Speed of Sound	
		Temperature		Pressure			
(metre)	(feet)	(°C)	(°F)	(kPa)	(psi)	(m/s)	(ft/s)
-1000	-3281	21.5	70.7	113.90	16.52	344.1	1129
-500	-1640	18.3	64.9	107.49	15.59	342.2	1122
0	0	15.0	59.0	101.35	14.70	340.3	1116
250	820	13.4	56.1	98.32	14.26	339.3	1113
500	1640	11.8	53.2	95.49	13.85	338.4	1110
750	2461	10.1	50.2	92.67	13.44	337.4	1107
1000	3281	8.5	47.3	89.84	13.03	336.4	1103
1250	4101	6.9	44.4	87.15	12.64	335.5	1100
1500	4921	5.3	41.5	84.53	12.26	334.5	1097
1750	5741	3.6	38.5	81.98	11.89	333.5	1094
2000	6562	2.0	35.6	79.50	11.53	332.5	1091
2500	8202	-1.2	29.8	74.67	10.83	330.6	1084
3000	9843	-4.5	23.9	70.12	10.17	328.6	1078
3500	11483	-7.7	18.1	65.78	9.54	326.6	1071
4000	13123	-11.0	12.2	61.64	8.94	324.6	1065
4500	14764	-14.2	6.4	57.78	8.38	322.6	1058
5000	16404	-17.5	0.5	54.05	7.84	320.5	1051
5500	18045	-20.7	-5.3	50.54	7.33	318.5	1045
6000	19685	-23.9	-11.1	47.23	6.85	316.5	1038
6500	21325	-27.2	-17.0	44.06	6.39	314.4	1031
7000	22966	-30.4	-22.8	41.09	5.96	312.3	1024
7500	24606	-33.7	-28.6	38.33	5.56	310.2	1017
8000	26247	-36.9	-34.5	35.65	5.17	308.1	1011
8500	27887	-40.2	-40.3	33.16	4.81	305.9	1003
9000	29528	-43.4	-46.2	30.82	4.47	303.8	996
9500	31168	-46.7	-52.0	28.61	4.15	301.7	990
10000	32808	-49.9	-57.8	26.48	3.84	299.5	982
11000	36089	-56.4	-69.5	22.68	3.29	295.2	968
12000	39370	-56.4	-69.5	19.37	2.81	295.1	968
13000	42651	-56.4	-69.5	16.62	2.41	295.1	968
14000	45932	-56.4	-69.5	14.20	2.06	295.1	968
15000	49213	-56.4	-69.5	12.00	1.74	295.1	968
16000	52493	-56.4	-69.5	10.34	1.50	295.1	968
17000	55774	-56.4	-69.5	8.83	1.28	295.1	968
18000	59055	-56.4	-69.5	7.58	1.10	295.1	968
19000	62336	-56.4	-69.5	6.48	0.94	295.1	968
20000	65617	-56.4	-69.5	5.52	0.80	295.1	968
25000	82021	-51.6	-60.9	2.55	0.37	298.4	979
30000	98425	-46.7	-52.0	1.17	0.17	301.7	990
32000	104987	-44.7	-48.5	0.90	0.13	303.0	994

¹⁾ ICAO International Civil Aviation Organization - Standard Atmosphere