

H6-1

IRCA SPECIAL FEATURES

CONVERTING KHZ TO METERS (contributed by Thomas White)

Sparked by the "EARLY DAYS OF DX'ING" articles, I have been invading some of the local libraries in search of information on what radio was like in the old days. One of the problems that I ran into was converting the frequencies given in the articles of the Twenties from meters to kilohertz.

So, with the aid of one of the computer terminals at my high school, I ran a program to convert the frequencies of the BCB to meters. This chart should be of interest to the club, since many members (especially among the newer ones) do not know how to convert from meters to kHz. The general equation, by the way, is 299,792.5 divided by frequency in kHz to convert to meters. To get kHz, divide 299,792.5 by the wavelength in meters. 299,792.5 is the speed of light in kilometers per second.

<u>kHz</u>	<u>Meters</u>	<u>kHz</u>	<u>Meters</u>	<u>kHz</u>	<u>Meters</u>	<u>kHz</u>	<u>Meters</u>
540	555.17	810	370.11	1080	277.59	1350	222.07
550	545.08	820	365.60	1090	275.04	1360	220.44
560	535.34	830	361.20	1100	272.54	1370	218.83
570	525.95	840	356.90	1110	270.08	1380	217.24
580	516.88	850	352.70	1120	267.67	1390	215.68
590	508.12	860	348.60	1130	265.30	1400	214.14
600	499.65	870	344.59	1140	262.98	1410	212.62
610	491.46	880	340.67	1150	260.69	1420	211.12
620	483.54	890	336.84	1160	258.44	1430	209.64
630	475.86	900	333.10	1170	256.23	1440	208.19
640	468.43	910	329.44	1180	254.06	1450	206.75
650	461.22	920	325.86	1190	251.93	1460	205.34
660	454.23	930	322.36	1200	249.83	1470	203.94
670	447.45	940	318.93	1210	247.76	1480	202.56
680	440.87	950	315.57	1220	245.73	1490	201.20
690	434.48	960	312.28	1230	243.73	1500	199.86
700	428.28	970	309.06	1240	241.77	1510	198.54
710	422.24	980	305.91	1250	239.83	1520	197.23
720	416.38	990	302.82	1260	237.93	1530	195.94
730	410.68	1000	299.79	1270	236.06	1540	194.67
740	405.12	1010	296.82	1280	234.21	1550	193.42
750	399.72	1020	293.91	1290	232.40	1560	192.18
760	394.46	1030	291.06	1300	230.61	1570	190.95
770	389.34	1040	288.26	1310	228.85	1580	189.74
780	384.34	1050	285.52	1320	227.12	1590	188.55
790	379.48	1060	282.82	1330	225.41	1600	187.37
800	374.74	1070	280.18	1340	223.73		

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Ed. note: If you wish, you can round off the formula to three places, as is usually done, and divide into 300,000 to get either frequency or wavelength. This formula is easy to memorize for quick calculations, and is accurate within half a meter for the whole broadcast band. It also works very nicely on a slide rule. Thanks to Tom for running all this through the computer. --BH.