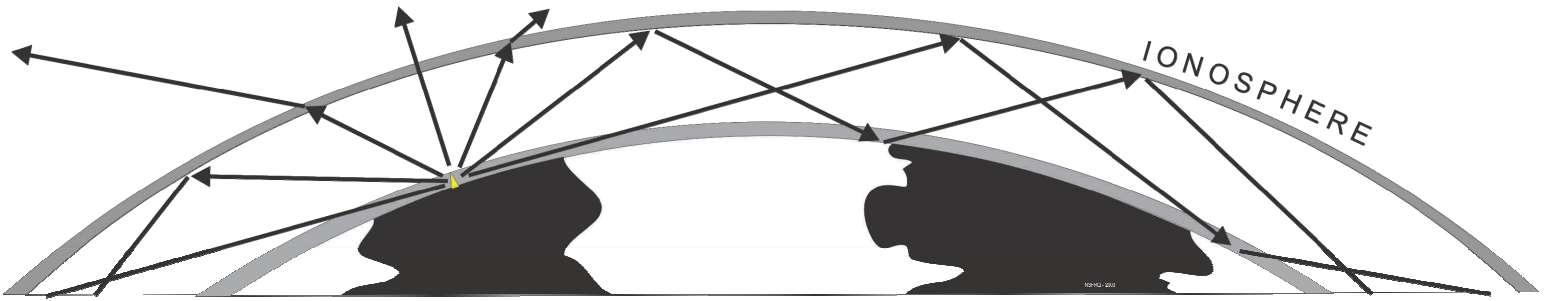


Get off the Web! Get your head out of the Cloud! Experience: Long-Distance (DX) Radio Listening



During nighttime hours, especially during Winter, old fashioned **AM radio** is able to span long distances due to **sky-waves** bouncing off the **ionosphere**. Even a simple radio is capable of hearing stations more than 500 miles away.

RADIOS

For this adventure a portable AM receiver will do just fine. One with digital frequency readout will make finding stations easier.

EXERCISE 1:

Tune some local stations, 660 KHz - WFAN, 710 KHz - WOR, 770 KHz - WABC, etc. Rotate the receiver around its vertical axis, observing the change in reception.

EXERCISE 2:

Tune to a weak station. Walk around the house to find a place where signals are strongest, and noise is at a minimum. Try in a window or near an outside wall.

EXERCISE 3 (at night):

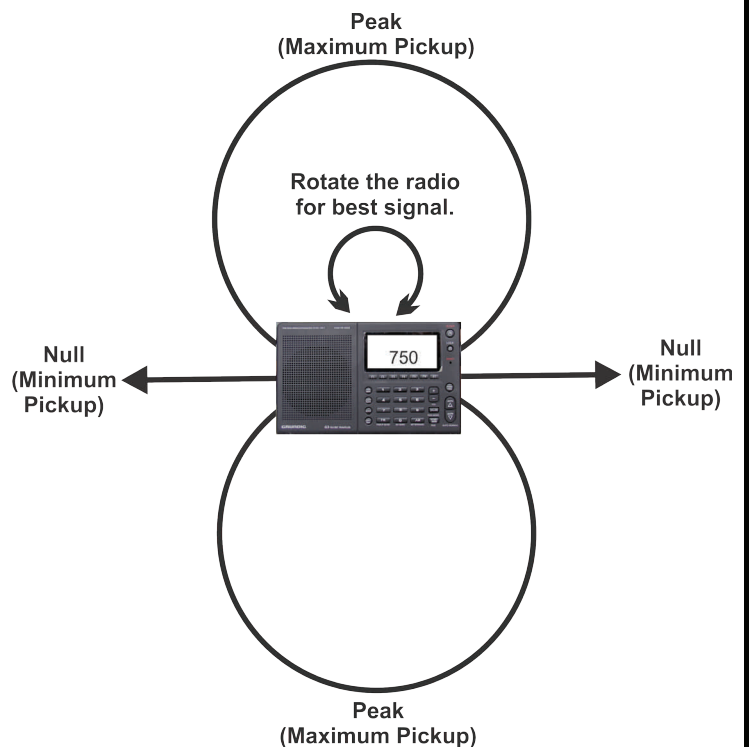
Tune to 900 KHz. Rotate the receiver for best reception. This is likely to be CHML in Hamilton, Ontario, Canada, more than 300 miles distant.

EXERCISE 4 (at night):

Tune to 750 KHz. Rotate the receiver for best reception on the English language station. This is likely to be WSB in Atlanta, Ga., more than 700 miles away. Now rotate the receiver approximately 90 degrees, listening for a Spanish language station. This is likely to be YVKS, in Caracas, Venezuela. Listen a while for the identification "ere cee ere" (RCR = Radio Caracas Radio)

Welcome to the world of DX'ing!

Antennas Intercept Radio Waves



Modern AM radios use an internal **loop antenna** that responds to the **magnetic component** of the **electromagnetic** wave. The antenna will have the best pickup off the "broad" side of the radio. Rotate the set for peak reception of the desired station, or to null out an unwanted station.



The New Jersey Antique Radio Club's
Radio Technology Museum

At InfoAge

[www.rtm.ar88.net/Radio Listening.html](http://www.rtm.ar88.net/Radio%20Listening.html)



AM DX Station List

There are thousands of AM broadcast stations. Here are a few of the loud and interesting ones.

DIFFiculty: 1 = easy, 2 = more difficult, 3 = hard

DIFF.	FREQ	CALL	LOCATION	DX	Comments
3	555	ZIZ	St. Kitts & Nevis	1726	
*	560	WFIL	Philadelphia	49	
*	570	WMCA	NYC		Radio Reloj underneath
3	600	CMKA	San German, CU	1347	R. Rebelde // 670
*	640	WWJZ	Mt. Holly, NJ		
2	650	WSM	Nashville	736	"Grand Ole Opry" country
*	660	WFAN	NYC		sports
3	670	CMBC	Arroyo Arena, CU	1271	R. Rebelde // 600
2	670	WSCR	Chicago	708	"The Score" CBS
2	700	WLW	Cincinnati, OH	550	
*	710	WOR	NYC		
2	720	WGN	Chicago	720	
1	740	CHWO	Toronto	352	"AM 740" - Oldies
3	750	YVKS	Caracas, VE	2097	"ereee cee erre"
2	750	WSB	Atlanta	717	
1	760	WJR	Detroit	482	news/talk
*	770	WABC	NYC		
2	780	WBBM	Chicago	708	
1	800	CKLW	Windsor, ONT	473	"AM 800"
1	810	WGY	SCHENECTADY		
*	820	WNYC	NYC		
3	820	WBAP	Dallas, TX	1379	
2	840	WHAS	Louisville, KY	630	
3	850	KOA	Denver, CO	1615	"Broncos Radio" news
1	860	CJBC	Toronto	352	French
3	870	WWL	New Orleans	1128	news/talk/sports
*	880	WCBS	NYC		
2	890	WLS	Chicago	708	talk
1	900	CHML	Hamilton, ONT	354	"AM 900" Old Time Programs
2	1000	WMVP	Chicago	708	
*	1010	WINS	NYC		
1	1020	KDKA	Pittsburgh	301	The original broadcast station
1	1030	WBZ	Boston	222	
3	1040	WHO	Des Moines, IA	1014	"News Radio 1040"
*	1050	WEPN	NYC		
*	1060	KYW	Philadelphia	49	
1	1100	WTAM	Cleveland	397	news
1	1110	WBT	Charlotte, NC	501	news/talk
2	1120	KMOX	St. Louis, MO	860	news CBS
1	1170	WWVA	Wheeling, WV	340	
1	1180	WHAM	Rochester	265	
2	1190	WOWO	Ft. Wayne, IN	573	news/talk
3	1200	WOAI	San Antonio, TX	1558	news/talk
*	1210	WPHT	Philadelphia	49	
2	1510	WLAC	Nashville	736	news/talk
1	1520	WKBW	Buffalo	299	
1	1530	WCKY	Cincinnati, OH	550	
3	1540	KXEL	Waterloo, IA	950	news/talk ABC

Distances are from Freehold, NJ

Radio Reloj Cuban Time Station Frequencies 570, 610, 760, 790, 830, 930, 940, 950, 1010, 1270 KHz

Tick on the second, beep on the minute, then RR in Morse "DIT-DAH-DIT DIT-DAH-DIT"