NOREASCON 4 RECOMMENDED HAM RADIO FREQUENCIES

Simplex:

Convention venue: 146.565
Metro Boston: 147.420
Others used: 146.550, 146.580

Repeaters:

Callsign	Town	Distance	Freq. / Δ	CTCSS	Sponsor	Notes
W1XM	Cambridge	1 mi N	449.725 –	114.8	MIT UHF Repeater Ass'n	see #2 below 30 second timeout
W1BOS	Boston	1.7 mi E	145.230 –	88.5	Boston ARC	Wide coverage Club net Mon 21:00 NTS net daily20:00 SPOT net Fri 21:00
WN9T	Boston	1.7 mi E	447.175 –	110.9	Boston ARC	Wide coverage
W1FCC	Brookline	3 mi SW	146.985 –	88.5	Brookline ARC	commute net 08:00
K1IW	Brookline	3 mi SW	447.875 –	136.5	Brookline ARC	see below
WA1RTT	Belmont	7 mi NW	145.430 –	67.0	Crocker Public Service Group	commute net 08:00
W1HEB	Newton	8 mi W	147.360 +	67.0		see below
N1AU	Lexington	9 mi NW	145.110 –	110.9	Colonial Wireless	Club net Thu 20:00
W1MHL	Waltham	9 mi W	146.640 –	–	Waltham ARA	Wide coverage NTS net daily 22:30 Swap net Wed 21:00
W1TKZ	Wellesley	11 mi SW	147.030 +	–	Wellesley ARS	Club net Sun 21:00 Club net Wed 20:00
N1BE	Weston	12 mi W	146.820 –	146.2	Minuteman Repeater Ass'n	Club net Tue 20:00
W1DC	Billerica	18 mi NW	147.120 +	103.5	1200 Radio Club	see below
N1BHI	Marlboro	25 mi W	146.610 –	146.2	Minuteman Repeater Ass'n	Club net Tue 20:00 Tech net Tue 20:00
W1MRA	Marlboro	25 mi W	449.925 –	88.5	Minuteman Repeater Ass'n system hub	Club net Tue 20:00 Tech net Tue 20:00 Echolink 94940

General rules:

1. Most clubs welcome outsiders into their nets
2. Avoid prolonged usage: some of these repeaters are commonly used to call and then QSY
3. Avoid the special purpose nets unless you have appropriate business.
4. Wait for the courtesy beep / repeater tail drop.

HAM RADIO: WAVE OF THE FUTURE

1912: First ham radio license, 8 years before first commercial radio license

1914: American Radio Relay League founded, sends first transcontinental radio message.

1946: First radio signal bounced off the moon: ham operator using military equipment

1961: First private communications satellite, OSCAR-1 (**O**rbiting **S**atellite **C**arrying **A**mateur **R**adio)

1969: Repeater stations legalized: later used as model for cell phone systems

1978: Packet radio, ancestor to Wi-Fi

1980: Spread Spectrum experimentation: later used for cell phone security

1984: Automatic Position Reporting System (APRS) piggybacks location onto transmissions, ancestor of On-Star vehicle safety system

1996: Planning starts on AMSAT-DL Phase 5A, the first privately funded and built Mars probe, with a weather station lander and an orbiter relaying telemetry. Target launch window is 2007.

2000: AO-40, first ham satellite with long (up to 9 hours) usage periods

2001: First extraterrestrial signal on ham bands: a 437 MHz beacon on a NASA Mars rover

2004: AO-50, AO-51 and experiments on the International Space Station provide "repeaters in the sky" that can be accessed with hand held radios. This may be an ancestor of personal satellite links yet to come.