

North American 144 MHz and Above DX Records

Freq & Mode	Distance	Call Signs	Date Updated
	miles (km)		Record?

144 MHz

Aurora	1353(2178)	KA1ZE(FN31tu) - WB0DRL/WA0TKJ(EM18ct)	8-Feb-86
Auroral-E	1426(2295)	WB7UZU(CN87qi) - VE3KNI(EN38hn)	15-Aug-89
FAI	1472(2370)	W0LD (DM78pu) - WA4CHA(EL88qa)	19-Jun-93
IFS	1775 (2856)	K5JL (EM15DP) - VE1ALQ (FN65VH)	8-Nov-99
MS	1965(3162)	K5UR(EM35wa) - KP4EKG(FK68vg)	13-Dec-85
Spor. E	2259(3635)	WA7GSK(DN13so) - W4FF(EL96am)	29-May-98
TE	3932(6327)	KP4EOR(FK78aj) - LU5DJZ(GF11lu)	12-Feb-78
Tropo C	1687(2715)	WB4MJE (EL94hq) - VE1KG(FN84cm)	5-Nov-94
Tropo P	2954 (4754)	KH6HME (BK29go) - W1LP/MM (DL51ce)	21-Aug-99
Tropo A	1469(2365)	W1JSM(FN43nc) - VP5D(FL31ut)	10-May-88

222 MHz

Aurora	1301(2094)	W5LUA(EM13qc) - WC2K(FM29pt)	13-Mar-89
MS	1338(2153)	K5VH(EM00xe) - VE3AX(FN02cw)	19-Nov-02
Spor E	1364 (2195)	W6QIW (DM04ck) - W5UWB (EL17ax)	14-Feb-00
TE	3677(5918)	KP4EOR(FK78aj) - LU7DJZ(GF05rj)	9-Mar-83
Tropo C	1504 (2421)	WB5AFY (EM04id) - K1TEO (FN31jg)	7-Sep-03
Tropo P	2578(4150)	XE2/N6XQ(DL29cx) - KH6HME(BK29go)	15-Jul-89
Tropo A	1152 (1854)	WA4LOX (EL87sk) - WP4O (FK68km)	26-Feb-98

432 MHz

Aurora	1186(1909)	W5LUA(EM13qc) - W3IP(FM19pd)	8-Feb-86
MS	1268(2040)	N6RMJ(DM14cp) - W7XU(EN13lm)	17-Nov-98
Tropo C	1368(2201)	KM1H(FN42hr) - WB4MJE(EL94hq)	16-Dec-92
Tropo P	2578(4150)	XE2/N6XQ(DL29cx) - KH6HME(BK29go)	15-Jul-89
Tropo A	1413(2273)	W1RIL(FN42ah) - VP5D(FL31ut)	10-May-88

903 MHz

Aurora	54 (87)	K3HZO(FM18qp) - WA3NZL(FM19jg)	8-Nov-91
Rain Scatter	204 (328)	KM0T (EN13vc) - W0GHZ (EN34lx)	13-Sep-05
Tropo C	1082(1741)	N5WS(EL09ru) - K0VXM(EL98pj)	22-May-98
Tropo P	2525(4064)	KH6HME(BK29go) - N6XQ(DM12jr)	13-Jul-94

1296 MHz

Rain Scatter	204 (328)	KM0T (EN13vc) - W0GHZ (EN34lx)	13-Sep-05
Tropo C	1292(2079)	K2DH(EM13pa) - WB3CZG(FN21ax)	29-Nov-86
Tropo P	2578(4150)	KH6HME(BK29go) - XE2/N6XQ(DL29CX)	15-Jul-89

2304 MHz

Rain Scatter	204 (328)	KM0T (EN13vc) - W0GHZ (EN34lx)	13-Sep-05
Tropo C	1000 (1609)	W5LUA (EM13qc) - K0VXM (EL98pj)	1-May-02
Tropo P	2474(3982)	KH6HME(BK29go) - N6CA(DM03tr)	14-Jul-94

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3456 MHz

Rain Scatter	299 (481)	W0GHZ (EN34lx) - W9ZIH (EN51nv)	24-Jun-05
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Tropo C	990 (1539)	K5VH (EM00xe) - WA8TTM(EL98dp)	15-Apr-03
Tropo P	2474(3982)	KH6HME(BK29go) - N6CA(DM03tr)	28-Jul-91

5760 MHz

Rain Scatter	321 (517)	W5ZN (EM45dh) - WW2R (EM13qd)	3-Aug-03
Tropo C	753 (1212)	W4DEX (EM95tg) - K1WHS(FN43mj)	25-Sep-04
Tropo P	2474(3982)	KH6HME(BK29go) - N6CA(DM03tr)	29-Jul-91

10368 MHz

Rain Scatter	626 (1008)	W4DEX (EM95tg) - AF1T/1 (FN41ee)	21-Aug-05
Tropo C	753 (1212)	W4DEX (EM95tg) - K1WHS(FN43mj)	25-Sep-04
Tropo P	797 (1282)	W1LP/mm (DL34ja) - WB6CWN (DM04eg)	20-Sep-01

24192 MHz

Rain Scatter	74 (119)	KM0T (EN13vc) - N0DQS (EN22ge)	26-Aug-03
Tropo C	337 (543)	W5LUA (EM13qc)-WW2R/5 (EM41hc)	7-Sep-02

47088 MHz

Tropo	213 (343)	AD6FP/6 (DM07bs)-W6QI/6 (DM04ms)	30-Oct-05 Yes
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75.5 - 81 GHz

Tropo	110 (177)	AD6FP/6 (CM88qp) - KF6KVG/6 (CM97ad)	1-Mar-02
Tropo	110 (177)	W0EOM/6 CM88qp) - KF6KVG/6 (CM97ad)	1-Mar-02

119.98 - 120.02 GHz

(No longer an amateur allocation as of March 12, 2004)

LOS	18.7 (30.0)	W4WWQ/4 (FM07ji) - WA1ZMS/4 (FM07fm)	2-Apr-03
LOS	15.4 (24.8)	W0EOM/6 (CM97cj) - KF6KVG/6 (CM87wj)	29-Mar-03

122.25 – 123.0 GHz

(New amateur allocation as of March 12, 2004)

LOS	70.7 (114)	WA1ZMS/4 (EM96ur) - W4WWQ/4 (FM07fm)	18-Jan-05 Yes
LOS	15.4 (24.8)	W0EOM/6 (CM97cj) - KF6KVG/6 (CM87xh)	27-Aug-04

134 - 141 GHz

(New amateur allocation as of March 12, 2004)

LOs	49.4 (79.6)	WA1ZMS/4 (EM96wx) - W2SZ/4(FM07fm)	14-Dec-05 Yes
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142 - 149 GHz

(No longer an amateur allocation as of March 12, 2004)

LOS	49.5 (79.7)	W2SZ/4 (FM07fm) - WA1ZMS/4 (EM96wx)	12-Jan-03
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Freq & Mode	Distance miles (km)	Call Signs	Date Updated Record?
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241 - 250 GHz

LOS	49.5 (79.7)	WA1ZMS/4 (EM96wx) - W2SZ/4(FM07fm)	17-Feb-04
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Above 300 GHz

322 GHz	0.9 (1.4)	WA1ZMS/4 (FM07ji) - W4WWQ/4 (FM07ji)	4-Mar-03
403 GHz	0.9 (1.4)	WA1ZMS/4 (FM07ji) - W4WWQ/4 (FM07ji)	21-Dec-04 Yes

Visible LASER 394 to 750 THz

474 THz	119.4 (192.6) WB7VVD (DM34hb) - KC7AED (DM34iq)	21-Sep-97
678 THz	153.8 (248.0) WA7LYI (DM34ff) - KY7B (DM42ok)	8-Jun-91

NOTES:

Tropo C is a path between 2 locations on the continent that is predominately over land

Tropo P is a path over the Pacific Ocean with at least one of the stations not located on the mainland

Tropo A is a path over the Atlantic Ocean with at least one of the stations not located on the mainland

LOS - Line of Sight

IFS – Ionospheric Forward Scatter

The distances given for the claimed records above 75 GHz are based on actual latitude and longitude of both stations. All other records are based on center to center of 6 digit grid squares with one exception. When a distance calculation based on actual latitude and longitude of each station determines that two stations were further away than the distance claimed by the other stations using just the 6 digit grid squares, then the actual latitude and longitude will be used in the distance calculation.

A.J. Ward, W5LUA December 21, 2005