

Danbury Translator - LPFM Preclusion Grid Study

639984

Latitude: 41-23-41.60 N
Longitude: 073-29-13.80 W
ERP: 0.013 kW
Channel: 245
Frequency: 96.9 MHz
AMSL Height: 246.0 m
HAAT = 70.5 m
HAAT 1 mV/m = 5.22 km

H-245

Latitude: 41-23-29 N
Longitude: 073-10-43 W

H-245

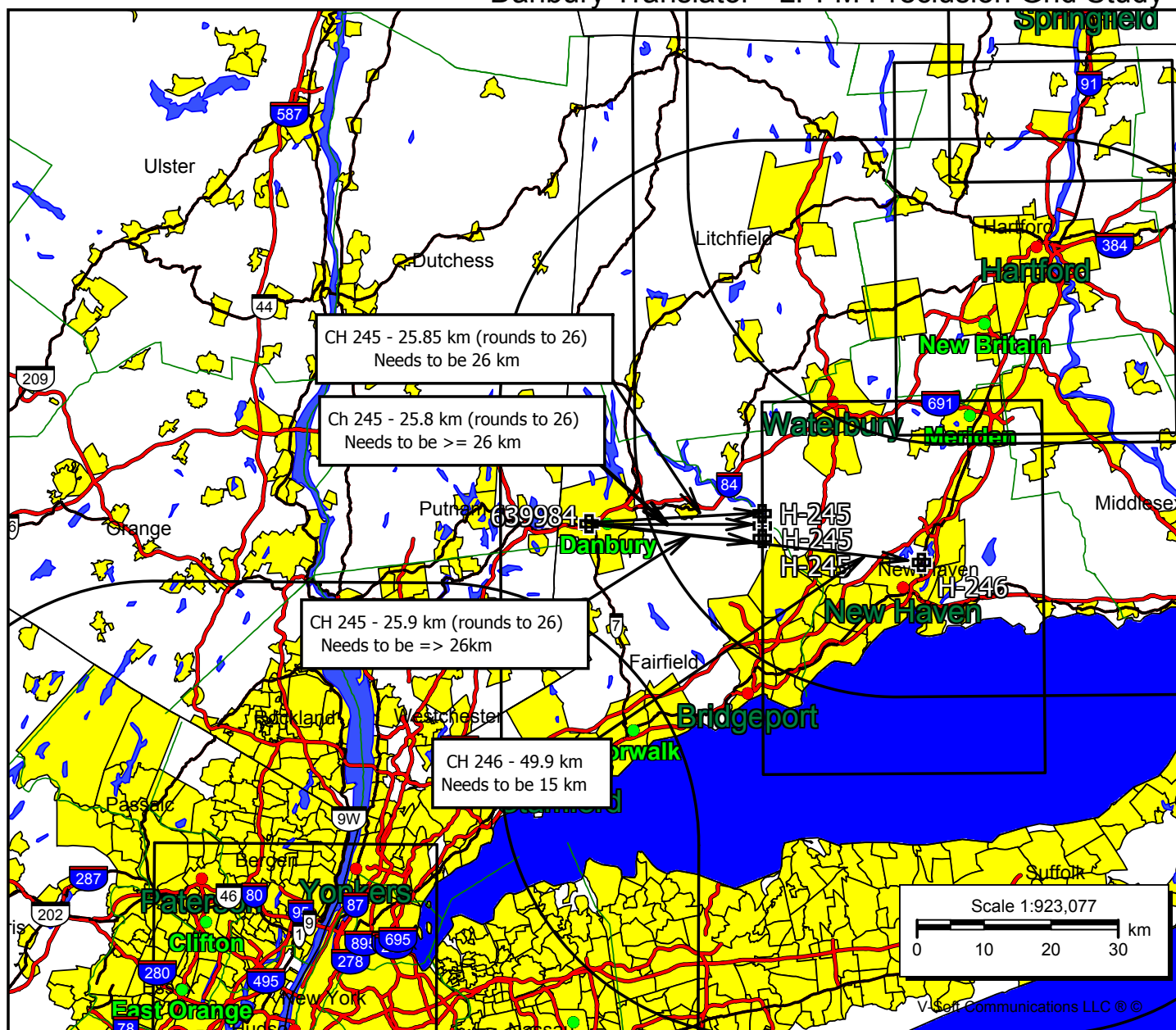
Latitude: 41-22-29 N
Longitude: 073-10-43 W

H-245

Latitude: 41-24-29 N
Longitude: 073-10-43 W

H-246

Latitude: 41-20-29 N
Longitude: 072-53-43 W

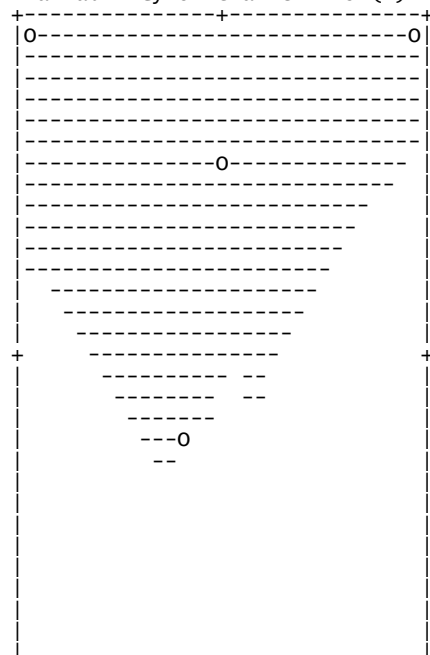


New Haven, CT
Latitude 41-18-29
Longitude 072-55-43
Grid Size 31 x 31
Micro FM 100 watts at 30m HAAT
Co-Channel and 1st Adjacent Protected
2nd Adjacent Channel Not Protected
3rd Adjacent Channel Not Protected
I.F. Not Protected
TV Channel 6 Protected
CP Records Protected
APP Records Protected
FM Translators Protected
TV Channel 6 Translators/LP Protected
Auc83 FX App Records Not Protected

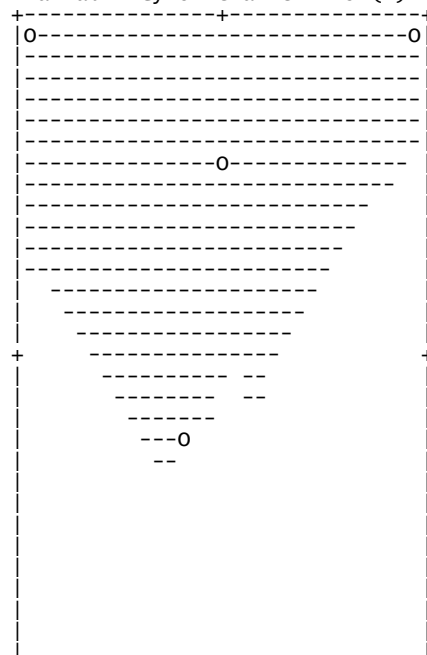
Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	0
201	0	221	77	241	124	261	0	281	0
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	143
204	0	224	0	244	0	264	0	284	0
205	0	225	19	245	454<--	265	0	285	0
206	0	226	0	246	91<--	266	0	286	0
207	0	227	28	247	0	267	0	287	104
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	82	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	3	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	0	273	384	293	0
214	0	234	0	254	143	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	0	257	0	277	450	297	243
218	0	238	0	258	361	278	243	298	361
219	0	239	0	259	0	279	195	299	0
								300	0

Total 3505

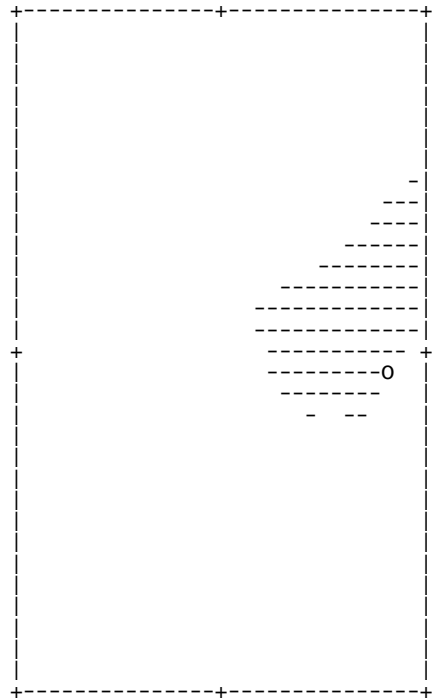
New Haven, CT
Latitude 41-18-29
Longitude 072-55-43
Least preclusive siting
Availability of Channel 245 (X)



New Haven, CT
Latitude 41-18-29
Longitude 072-55-43
Most preclusive siting
Availability of Channel 245 (X)

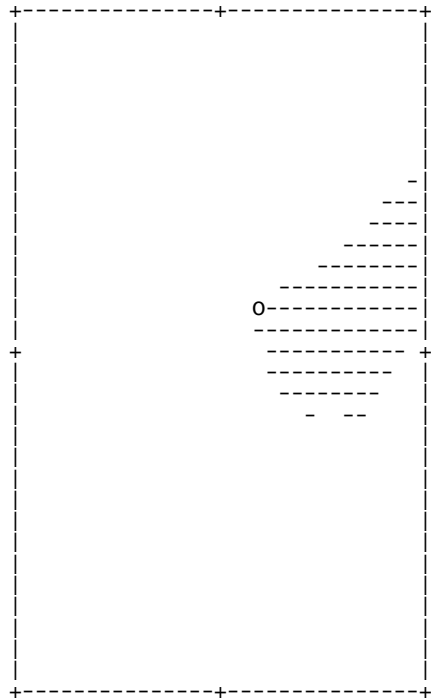


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 Point #031 at 41-33-29 072-40-43
 Point #961 at 41-33-29 073-10-43
 Point #490 at 41-27-29 072-55-43
 Point #570 at 41-14-29 072-58-43
 New Haven, CT
 Latitude 41-18-29
 Longitude 072-55-43
 Least preclusive siting
 Availability of Channel 246 (X)



Point #075 at 41-15-29 072-42-43

|-----+-----+
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 Point #490 at 41-27-29 072-55-43
 Point #570 at 41-14-29 072-58-43
 Point #031 at 41-33-29 072-40-43
 Point #961 at 41-33-29 073-10-43
 New Haven, CT
 Latitude 41-18-29
 Longitude 072-55-43
 Most preclusive siting
 Availability of Channel 246 (X)



Point #075 at 41-15-29 072-42-43

Contour-to-Contour Allocation Study
Connecticut Public Broadcasting, Inc.
CH# 245D - 96.9 MHz, Pwr= 0.013 kw, HAAT= 70.5 M, COR= 246 M
Average Protected F(50-50)= 5.22 km
Omni-directional

DISPLAY DATES
DATA 04-05-13
SEARCH 04-05-13

REFERENCE
41 23 41.6 N.
73 29 13.8 W.

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
245D Danbury	639984	APP _C_	CT	155.7 335.7	4.32 BNPFT20030317KXP	41 21 34.0 73 27 57.0	0.010 139	18.1 309	5.6 Connecticut Public Broadca	-16.8*
245L1 New Haven	SACRED«	CT	CT	90.8 271.0	25.80	41 23 29.0 73 10 43.0	0.000	2.4 0	10.5 25.5R	0.30M
246B New York	WQHT	LIC _CX	NY	210.4 30.0	83.16 BMLH20050215AAH	40 44 54.0 73 59 10.0	6.700 408	78.2 422	66.1 Emmis License Corporation	5.9
243B Hartford	WTIC-FM	LIC _CX	CT	53.1 233.6	70.64 BMLH20060809ADR	41 46 27.0 72 48 20.0	20.000 239	5.6 325	64.1 Cbs Radio Stations Inc.	6.3
248B Patchogue	WALK-FM	LIC DCN	NY	148.0 328.3	72.00 BLH19910524KA	40 50 41.0 73 02 01.0	39.000 169	5.8 192	64.0 Aloha Station Trust, Llc	7.5
245D Litchfield	639858	APP _C_	CT	27.8 207.9	40.04 BNPFT20030317LHJ	41 42 48.0 73 15 44.0	0.010 53	24.0 334	7.1 Connecticut Public Broadca	10.7
245A Arlington	WRRB	LIC _C_	NY	310.6 130.2	55.62 BMLH20001002AHL	41 43 09.0 73 59 47.0	0.310 307	76.5 418	25.9 Cumulus Licensing Llc	13.8
242B New York	WXNY-FM	LIC _CN	NY	210.4 30.0	83.16 BLH19940204KG	40 44 54.0 73 59 10.0	6.000 415	4.5 429	65.4 Wado-am License Corp.	17.2
244A Port Chester	WKLX-FM	LIC NCX	NY	204.8 24.6	59.06 BMLED20110616AAN	40 54 44.0 73 46 55.0	3.100 143	41.2 169	26.8 Educational Media Foundati	25.7
247A Litchfield	WZBG	LIC _CN	CT	30.6 210.8	52.66 BLH19920813KA	41 48 08.0 73 09 50.0	3.000 100	2.4 411	26.1 Local Girls And Boys Broad	25.8
247D Poughkeepsie	W247AW	LIC DC_	NY	310.9 130.6	55.63 BLFT20120327AKI	41 43 18.0 73 59 37.0	0.250	0.5 338	14.2 Sunrise Broadcasting Corpo	41.2
245D Manorville	W245BA	LIC _C_	NY	148.5 328.8	71.94 BLFT20071010ACI	40 50 32.0 73 02 25.0	0.010 144	22.4 166	6.7 M. Celenza Communications,	44.5
247A Wurtsboro	WZAD	LIC _CN	NY	284.8 104.1	91.80 BLH19930323KB	41 36 04.0 74 33 17.0	0.620 219	1.6 572	30.3 Cumulus Licensing Llc	61.3
243D Ellenville	W243BZ	LIC _C_	NY	294.2 113.6	79.15 BLFT20091208AAN	41 41 01.0 74 21 24.0	0.007 458	0.2 716	11.8 Wamc	67.2
243D Kingston	631765	APP DC_	NY	324.5 144.1	72.80 BNPFT20030317AOS	41 55 36.0 73 59 55.0	0.090 6	0.1 99	3.2 Clear Channel Broadcasting	69.4
246D Bolton	W246CC	LIC _C_	CT	62.1 242.8	98.04 BLFT20110125ABH	41 48 10.0 72 26 30.0	0.100 187	25.2 328	16.9 Red Wolf Broadcasting Corp	71.5
245A East Hampton	WEHN	LIC NCX	NY	111.6 292.5	118.73 BLH20060210ABT	40 59 37.0 72 10 19.0	4.300 117	84.4 122	28.2 Aaa Licensing Llc	72.3
245L1 Hartford	LPFM«	CT	CT	54.0 234.7	98.84	41 54 45.0 72 31 19.0	0.100 30	2.4 0	10.5 25.5R	73.3M

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
Incoming contour overlap is ignored.
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
« = Station meets FCC minimum distance spacing for its class.

HOW TO READ THE FM COMPUTER PRINT-OUT

Translator Reference Station

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "* OUT *" shows the greatest distance in kilometers of overlap (or smallest distance of clearance) between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap. Since translators are able to receive interference there is no "In" or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station. Bearings are calculated using spherical trigonometry.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the minimum spacings the "OUT" columns change its significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column displays the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.