

Channel 201, Servants of the Cross, Interference Study -- CO-CHANNEL

States surveyed: Maine, New Hampshire, Vermont, Massachusetts, Quebec

Coordinates of Proposed: N 43 59 30 W 69 58 40

RCAMSL: 106.7 meters

RCAGL: 30.5 meters

HAAT: 57 meters

	Auth	Call Letters	Location	File Number	coordinates	ERP	HAAT	RCAMSL	km from proposed	Minimum Spacing km	Close Spaced ?
1	Application 201A		Peterborough NH	BPED19970417MJ	42 51 28 71 52 53	0.09	398	710	199	115	NO
2	Application 201A		Rochester NH	BPED19940131MC	43 19 48 71 07 26	0.15	180	360	118	115	NO
3	Application 201B		Norwich VT	BPED961122MB	43 26 17 72 27 8	1.7	674	956	209	178	NO
4	Application 201A		Bedford MA	BPED19980225MC	41 38 38 70 59 22	0.5	17	39	274	115	NO
5	License 201A	WMBR	Cambridge MA	BLED19950727KD	42 21 42 71 05 03	0.72	90	106	202	115	NO
6	License 201A	WCHC	Worcester MA	BLED19880916KA	42 14 15 71 48 31	0.1	-2	195	245	115	NO
7	Application 201A		New Bedford MA	BPED19970701MA	41 38 15 70 52 19	0.3	41	51	272	115	NO
8	License 201B	CBF8FM	Trois-Rivieres QU		46 29 27 72 39 00	4.3	282	0	348	206	NO
9	License 201D		Woburn QU		45 23 08 70 51 48	0.001	-90	0	170		NO
10	License 201D		Cookshire QU		45 24 47 71 38 02	0.001	25	0	205		NO
11	Allocation 201B		Carleton QU		48 08 07 66 07 00	[50]	[150]		549	206	NO

US distances calculated as per 73.208. Distances to Canadian stations are calculated as per FCC Docket 80-90.

Channel 201, Servants of the Cross, Interference Study -- **FIRST ADJACENT CHANNEL**

States surveyed: Maine, New Hampshire, Vermont, Massachusetts, Quebec

Coordinates of Proposed: N 43 59 30 W 69 58 40

RCAMSL: 106.7 meters

RCAGL: 30.5 meters

HAAT: 57 meters

	Auth	Call Letters	Location	File Number	coordinates	ERP	HAAT	RCAMSL	km from proposed	Minimum Spacing km	Close Spaced ?
1	License 202A	WYAR	Yarmouth ME	BLED19981119KA	43 45 56 70 08 27	0.1	24	42	28	72	YES
2	App 202A		New Castle NH	BPED19940131MA	43 08 05 70 44 33	0.58	26	43	113	72	NO
3	App 202A		Nashua NH	BPED19961224MA	42 45 34 71 28 13	3.5	19	90	183	72	NO
4	App 202A		Milford NH	BPED19971121MG	42 50 30 71 37 15	4	6	126	184	72	NO
5	License 202A	WNUB	Northfield VT	BLED890622KB	44 8 32 72 39 31	0.28	-118	283	215	72	NO
6	License 202C3	WVPA	St. Johnsbury VT	BPED19970108MC	44 34 15 71 53 38	0.29	568	1002	166	89	NO
7	License 202A	WIQH	Concord MA	BLED19950217KB	42 26 48 71 20 49	0.1	7	13	205	72	NO
8	License 202A	WRPS	Rockland MA	BLED19861113KA	42 07 43 70 55 01	0.1	42	76	221	72	NO
9	License 202A	WGAO	Franklin MA	BLED19941229KB	42 05 08 71 23 54	0.17	58	131	241	72	NO
10	License 202A	WBMT	Boxford MA	BLED1742	42 37 39 70 58 30	0.71	6	35	172	72	NO
11	License 202B	CBF15F	L'Annonciation QU		46 23 35 74 53 10	4.6	126		469	132	NO
12	Allocation 202A		Ste-Anne-De-Beaupre QU		47 03 00 70 53 00	[50]	[150]		347	85	NO

US distances calculated as per 73.206. Distances to Canadian stations are calculated as per FCC Docket 80-90.

Channel 201, Servants of the Cross, Interference Study — **SECOND ADJACENT**

States surveyed: Maine, New Hampshire, Vermont, Massachusetts, Quebec

Coordinates of Proposed: N 43 59 30 W 69 58 40

RCAMSL: 106.7 meters

RCAGL: 30.5 meters

HAAT: 57 meters

	Auth	Call Letters	Location	File Number	coordinates	ERP	HAAT	RCAMSL	km from proposed	Minimum Spacing km	Close Spaced ?
1	License 203C	WHCF	Bangor ME	BLED19951124KA	45 07 48 68 21 28	35	494	608	180	95	NO
2	License 203A	WSEW	Sanford ME	BLED19920304KD	43 25 11 70 48 09	0.1	118	236	92	31	NO
3	Application 203A		Mechanics Falls ME	BPED19991101BP	44 0 12 70 25 24	0.72	225	344	36	31	NO
4	License 203A	WWTA	Marion MA	BLED19931222KD	41 42 32 70 45 57	0.02 0.1	16 16	24 24	262	31	NO
5	License 203B	WFCR	Amherst MA	BLED980805KC	42 21 49 72 25 24	13 13	273 273	456 456	269	69	NO
6	License 203B	CBVG	Gaspe QU		48 50 01 64 15 27	2.15	409		695	76	NO
7	Allocation 203B		Montreal QU		45 30 20 73 35 32	[50]	[150]		332	76	NO
8	Allocation 203A		Thetford-Mines QU		46 06 53 71 24 24	[50]	[150]		261	45	NO
9	Allocation 203A		La Tuque QU		47 25 25 72 45 49	[50]	[150]		439	45	NO

US distances calculated as per 73.208. Distances to Canadian stations are calculated as per FCC Docket 80-90.

Channel 201, Servants of the Cross, Interference Study — **THIRD ADJACENT**

States surveyed: Maine, New Hampshire, Vermont, Massachusetts, Quebec

Coordinates of Proposed: N 43 59 30 W 69 58 40

RCAMSL: 106.7 meters

RCAGL: 30.5 meters

HAAT: 57 meters

	Auth	Call Letters	Location	File Number	coordinates	ERP	HAAT	RCAMSL	km from proposed	Minimum Spacing km	Close Spaced ?
1	License 204A	WSEW	Sanford ME	BPED19940927MA	43 25 14 70 48 04	0.18	190	282	92	31	NO
2	License 204C2	WRVT	Rutland VT	BLED881215KA	43 39 32 73 6 25	2.8	405	663	254	55	NO
3	Application 204A		East Berkshire VT	BPED951214MA	44 55 45 72 42 7	1	-147	154	241	31	NO
4	License 204A	WWPV	Colchester VT	BLED830204AB	44 29 38 73 9 51	0.1	25	123	261	31	NO
5	License 204A	CBOF9F	Chapeau QU		45 55 29 77 04 23	2.3	95		600	37	NO
6	Allocation 204A		Saint Pamphile QU		46 55 53 69 49 20	[50]	[150]		327	37	NO
7	Allocation 204A		Pont-Rouge QU		46 45 00 71 42 00	[50]	[150]		335	37	NO

US distances calculated as per 73.208. Distances to Canadian stations are calculated as per FCC Docket 80-90.

Channel 201, Servants of the Cross, Interference Study -- IF: +53, +54

States surveyed: Maine

Coordinates of Proposed: N 43 59 30 W 69 58 40

RCAMSL: 106.7 meters

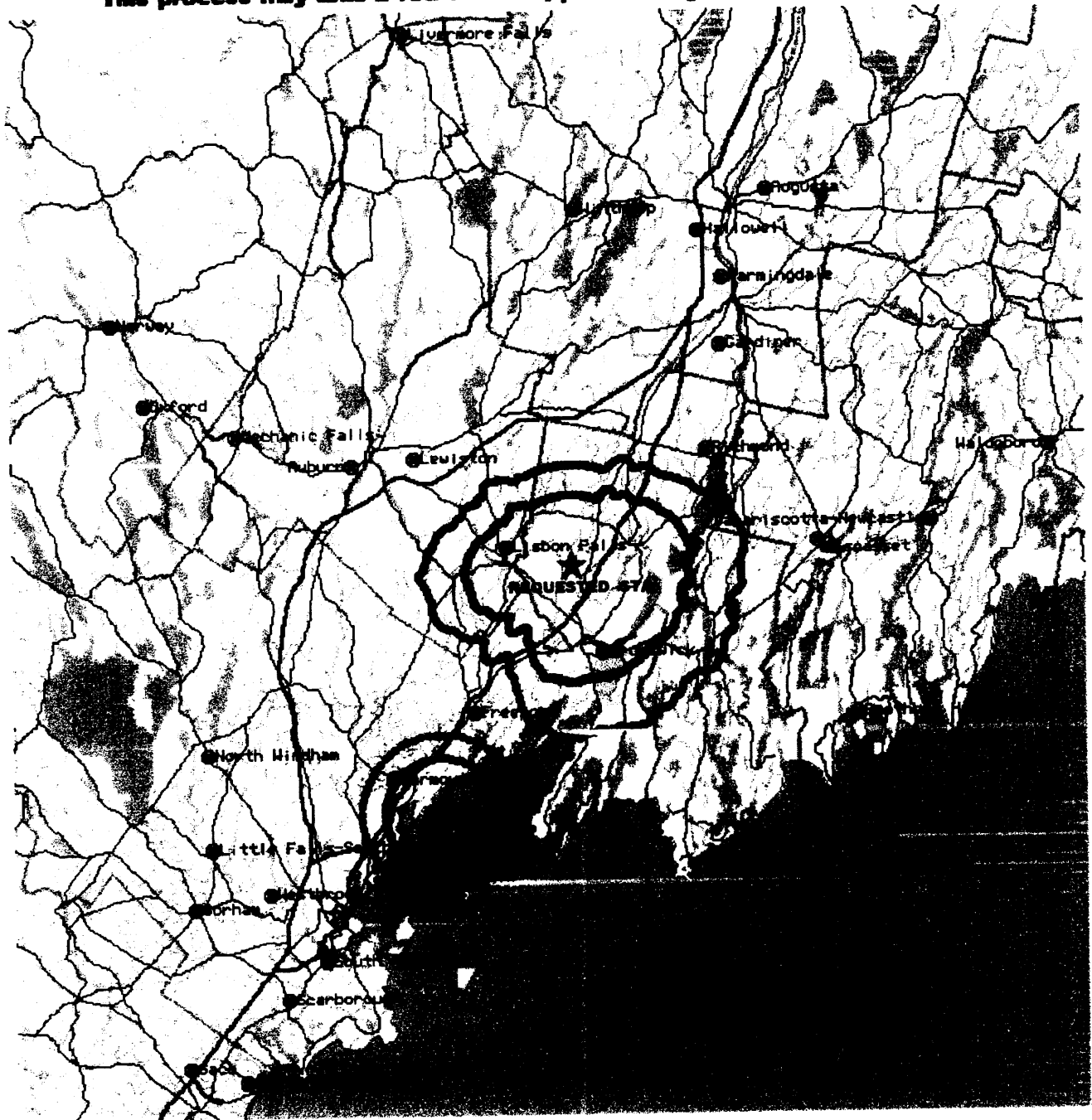
RCAGL: 30.5 meters

HAAT: 57 meters

	Auth	Call Letters	Location	File Number	coordinates	ERP	HAAT	RCAMSL	km to proposed	Minimum Spacing km	Close Spaced ?
1	License 255B	WTPN	Brunswick ME	BLH890906KB	43 55 40 69 59 43	48	122	160	7	15	YES

US distances calculated as per 73.208. Distances to Canadian stations are calculated as per FCC Docket 80-90.

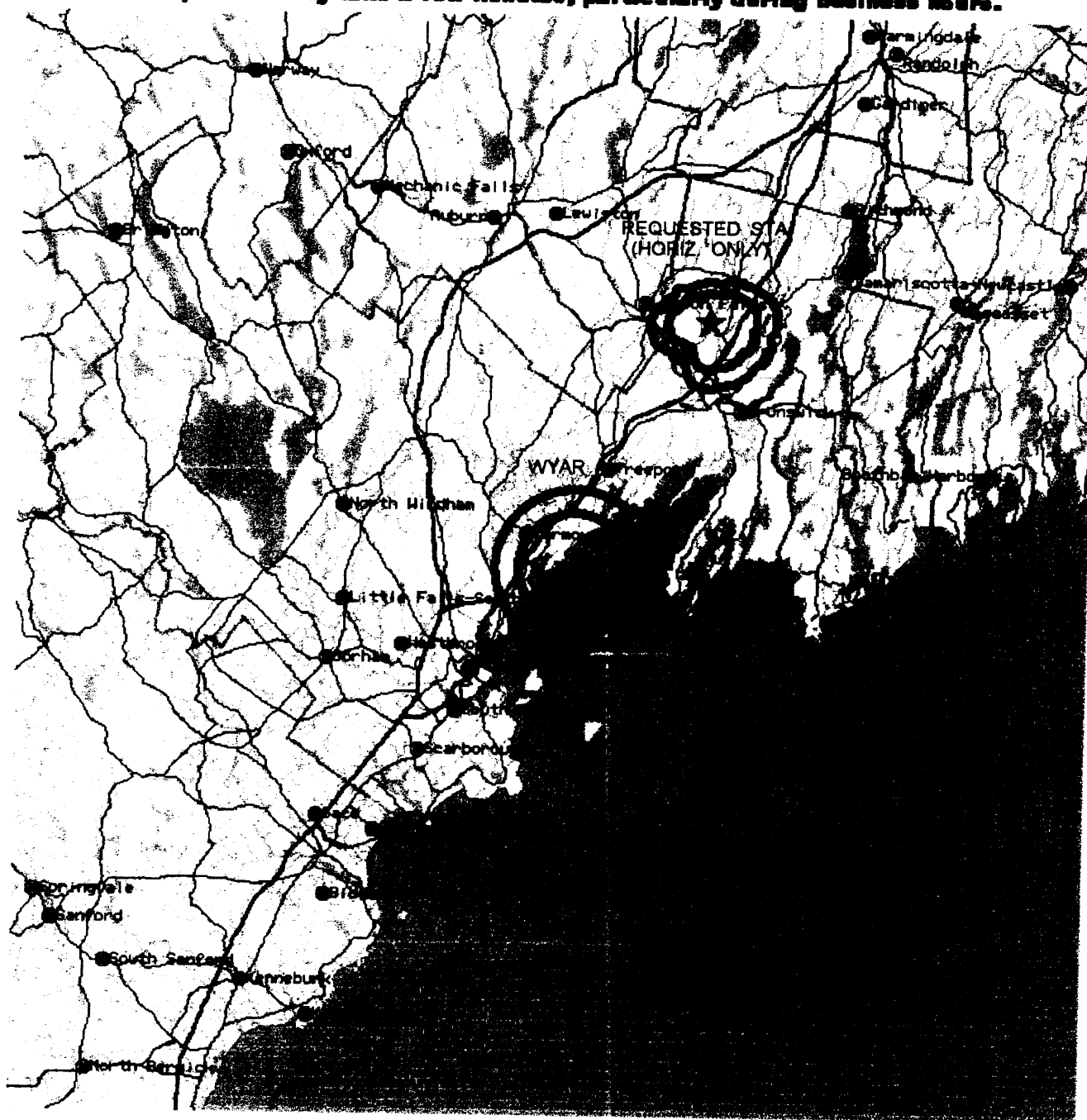
**Contacting the Census Bureau's Tiger Map Server to generate the map --
This process may take a few minutes, particularly during business hours.**



IGNORING CROSS POLARIZATION

Contours of WYAR (horizontally polarized) and
the vertically polarized requested STA.

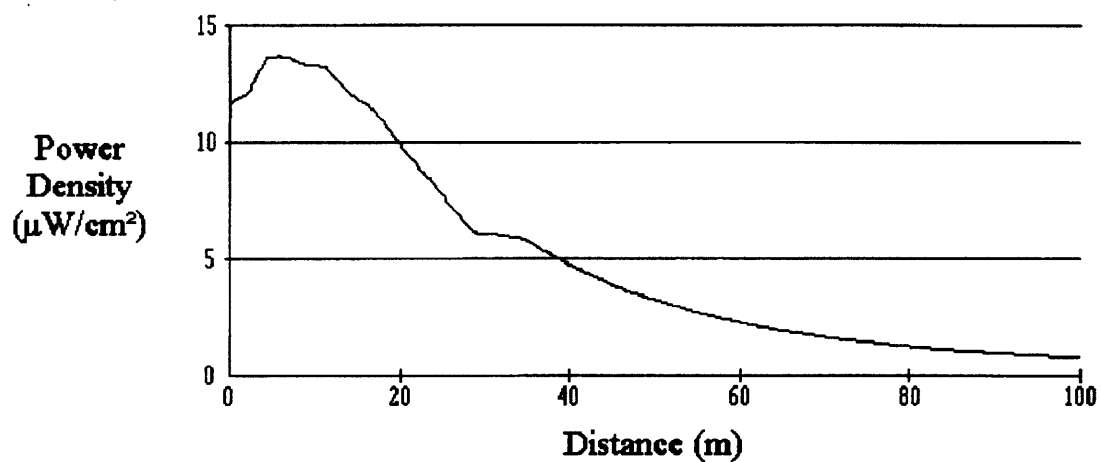
Contacting the Census Bureau's Tiger Map Server to generate the map ...
This process may take a few minutes, particularly during business hours.



EFFECTS OF CROSS POLARIZATION

Contours of WYAR (horizontal polarization) and
the horizontal component of the requested STA.

Power Density vs Distance



Office of Engineering and Technology

Distance (m):

100

Antenna Type:

Vertical Dipole (1/2 Wave) - Class 1B

Horizontal ERP (W):

0.25

Vertical ERP (W):

0.25

Number of Elements:

1

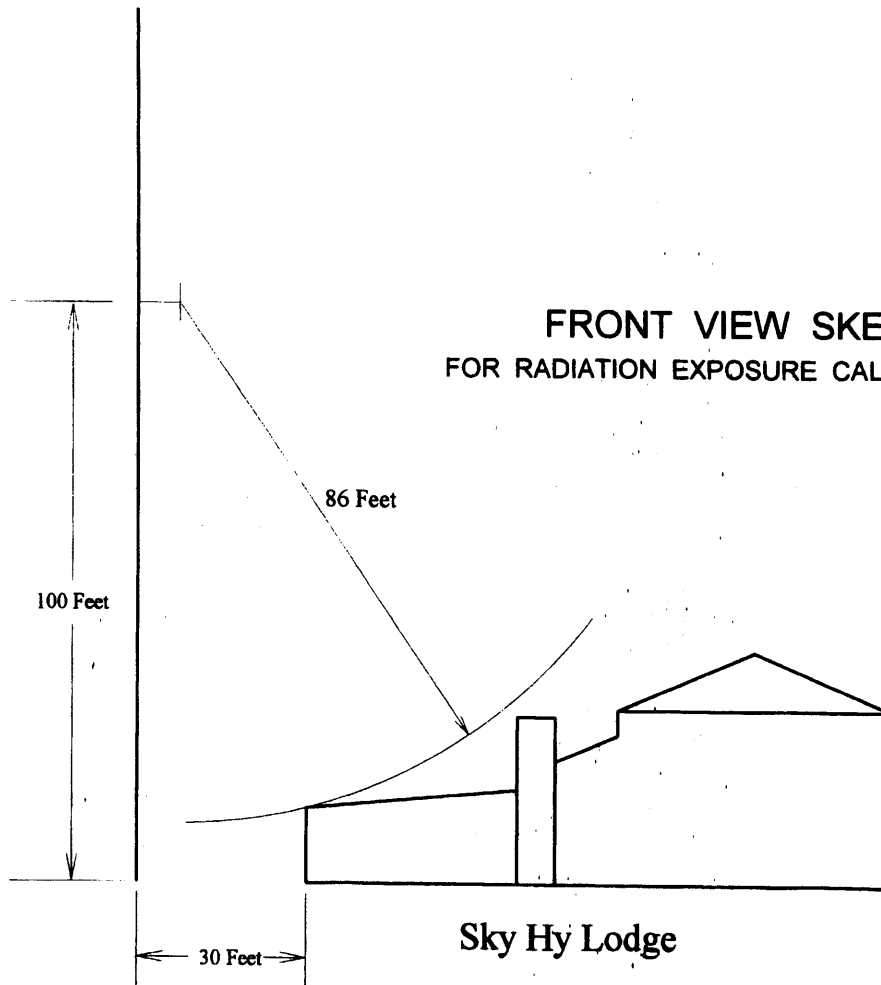
Antenna Height (m):

30.5

Element Spacing:

1

**FRONT VIEW SKETCH
FOR RADIATION EXPOSURE CALCULATIONS**



Wednesday, April 26, 2000

Dataworld FM/TV Channel 6 Study

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Job Title: Servants

Channel: 201

Coordinates: N 43° 59' 30.0" W 69° 58' 40.0"

c/r Height = 107.8 meters AMSL

ERP = 0.0250 kW

* = 6 dB TV Receiving Antenna Directivity Applied.

Channel 6 Stations within 265.0 km will be examined

Wednesday, April 26, 2000

Dataworld Educational FM/TV Channel 6 Interference Study

Title: Servants

Channel: 201

Coordinates: N 43° 59' 30.0" W 69° 58' 40.0"

c/r Height = 107.8 m AMSL
ERP = 0.0250 kW

Place name	1990 Population	1990 Housing Units
Bowdoin	194	75
Bowdoinham	38	14
Topsham	696	229
Sagadahoc County	928	318
State of Maine	928	318
Total	928	318