

# ***du Treil, Lundin, and Rackley***

***Coordinates: 42-57-35 085-53-45 Channel: 11 Class: EX***

Date: 10/16/2003

## ***Canadian Contour Analysis***

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<b><i>Ch</i></b>	<b><i>Call</i></b>	<b><i>Status</i></b>		<b><i>DA</i></b>	<b><i>Lat</i></b>	<b><i>Lon</i></b>	<b><i>Class</i></b>	<b><i>ERP (kW)</i></b>	<b><i>RCAMSL (m)</i></b>	<b><i>Bear</i></b>	<b><i>Dist. (km)</i></b>	<b><i>Req. Sep.</i></b>	<b><i>Diff</i></b>	
11 0	CHBX-TV CAN	DT	SAULT STE	ON	N	46-35-40 084-21-0	VL	14.000	0.0	16.3	422.0	321.0	101.0	CLEAR
11 0	CICA-TV-CAN	DT	OWEN SOUND	ON	N	44-26-39 081-02-3	VU	5.000	0.0	65.4	424.5	297.0	127.5	CLEAR

Study Date: 20031016  
Study Start: 17:39:22  
CANADIAN CONTOUR ANALYSIS

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CHBX-TV 46-35-40 084-21-00 11 14.000kw 578.5 m 33.0dbu 89.0 km  
SAULT STE MARIE, ON  
CANTAB CLASS VL

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DWGVUTV 42-57-35 085-53-45 11 3.200kw 463 m 10%  
GRAND RAPIDS, MI  
DTVALT DTV ALLOTMENT CLASS VU

No IX

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CICA-TV 44-26-39 081-02-38 11 5.000kw 828.9 m 33.0dbu 82.0 km  
OWEN SOUND, ON  
CANTAB CLASS VU

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DWGVUTV 42-57-35 085-53-45 11 3.200kw 463 m 10%  
GRAND RAPIDS, MI  
DTVALT DTV ALLOTMENT CLASS VU

No IX

Study Date: 20031016  
Study Start: 17:33:55  
CANADIAN INTERFERENCE CAUSED  
CELL SIZE : 2.00  
Using DTV->DTV service params  
Using circles for service area

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CHBX-TV 46-35-40 084-21-00 11(0) 14.000 kw 578.2 m 90.0 % 33.0 dBu  
SAULT STE MARIE ON  
CANTAB CLASS VL  
Calculated RCAMSL with HAAT of 300  
%loc = 90.00 %time = 90.00

	Area	Pop
within Noise Limited Contour	24886.42	96259
not affected by terrain losses	19683.40	95913

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DWGVUTV 42-57-35 085-53-45 11(N) 3.200 kw 463 m DA 10.0 % 33.0  
GRAND RAPIDS MI 14630 1077 DTVSERVICE: 1077000 NTSCSERVICE: 1076000  
DTVALT DTV ALLOTMENT CLASS VU  
0.98 0.98 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97  
0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.99 0.99  
0.99 0.99 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.98  
Ref Az: 0.0

D/U Baseline: 19.50  
%loc = 10.00%time = 10

	Area	Pop
Interference	0	0

\*\*\*\*\*

CICA-TV 44-26-39 081-02-38 11(0) 5.000 kw 564.9 m 90.0 % 33.0 dBu  
OWEN SOUND ON  
CANTAB CLASS VU  
Calculated RCAMSL with HAAT of 300  
%loc = 90.00 %time = 90.00

	Area	Pop
within Noise Limited Contour	21142.24	240191
not affected by terrain losses	18340.45	182412

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DWGVUTV 42-57-35 085-53-45 11(N) 3.200 kw 463 m DA 10.0 % 33.0  
GRAND RAPIDS MI 14630 1077 DTVSERVICE: 1077000 NTSCSERVICE: 1076000  
DTVALT DTV ALLOTMENT CLASS VU  
0.98 0.98 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97 0.97  
0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0.99 0.99  
0.99 0.99 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.98  
Ref Az: 0.0

D/U Baseline: 19.50  
%loc = 10.00%time = 10

	Area	Pop
Interference	0	0

Study end time: 17:35:58

Study Date: 20031016  
 Study Start: 17:53:48  
 CANADIAN CONTOUR ANALYSIS

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 CHBX-TV 46-35-40 084-21-00 11 14.000kw 578.5 m 33.0dbu 89.0 km  
 SAULT STE MARIE, ON  
 CANTAB CLASS VL

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 WGVUTV 42-57-35 085-53-45 11 50.000kw 441 m DA 10%  
 GRAND RAPIDS, MI  
 CP BPEDT19990113K CLASS EX  
 1.00 0.97 0.89 0.77 0.64 0.52 0.46 0.46 0.49 0.50 0.49 0.46  
 0.46 0.52 0.64 0.77 0.89 0.97 1.00 0.97 0.89 0.77 0.64 0.52  
 0.46 0.46 0.49 0.50 0.49 0.46 0.46 0.52 0.64 0.77 0.89 0.97  
 Ref Az: 0.0

Using 10/10  
 IX Threshold: 19.50000  
 Interference found  
 Number of points = 44.00000  
 Min bearing: 9.6 Max bearing: 13.3  
 Min distance: 333.0 Max distance: 333.1  
 Worst IX dif: 18.3 at bearing: 16.9

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 CICA-TV 44-26-39 081-02-38 11 5.000kw 828.9 m 33.0dbu 82.0 km  
 OWEN SOUND, ON  
 CANTAB CLASS VU

\*\*\*\*\*  
 WGVUTV 42-57-35 085-53-45 11 50.000kw 441 m DA 10%  
 GRAND RAPIDS, MI  
 CP BPEDT19990113K CLASS EX  
 1.00 0.97 0.89 0.77 0.64 0.52 0.46 0.46 0.49 0.50 0.49 0.46  
 0.46 0.52 0.64 0.77 0.89 0.97 1.00 0.97 0.89 0.77 0.64 0.52  
 0.46 0.46 0.49 0.50 0.49 0.46 0.46 0.52 0.64 0.77 0.89 0.97  
 Ref Az: 0.0

No IX

Study Date: 20031016  
Study Start: 17:51:42  
CANADIAN INTERFERENCE CAUSED  
CELL SIZE : 2.00  
Using DTV->DTV service params  
Using circles for service area

\*\*\*\*\*  
CHBX-TV 46-35-40 084-21-00 11(0) 14.000 kw 578.2 m 90.0 % 33.0 dBu  
SAULT STE MARIE ON  
CANTAB CLASS VL  
Calculated RCAMSL with HAAT of 300  
%loc = 90.00 %time = 90.00

	Area	Pop
within Noise Limited Contour	24886.42	96259
not affected by terrain losses	19683.40	95913

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WGVUDT 42-57-35 085-53-45 11(N) 50.000 kw 441 m DA 10.0 % 33.0  
GRAND RAPIDS MI 14630 1077 DTVSERVICE: 1077000 NTSCSERVICE: 1076000  
CP BPEDT19990113KI CLASS EX

1.00	0.97	0.89	0.77	0.64	0.52	0.46	0.46	0.49	0.50	0.49	0.46
0.46	0.52	0.64	0.77	0.89	0.97	1.00	0.97	0.89	0.77	0.64	0.52
0.46	0.46	0.49	0.50	0.49	0.46	0.46	0.52	0.64	0.77	0.89	0.97

Ref Az: 0.0

D/U Baseline: 19.50  
%loc = 10.00%time = 10

	Area	Pop
Interference	1256.73	165( 0.2)

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CICA-TV 44-26-39 081-02-38 11(0) 5.000 kw 564.9 m 90.0 % 33.0 dBu  
OWEN SOUND ON  
CANTAB CLASS VU  
Calculated RCAMSL with HAAT of 300  
%loc = 90.00 %time = 90.00

	Area	Pop
within Noise Limited Contour	21142.24	240191
not affected by terrain losses	18340.45	182412

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WGVUDT 42-57-35 085-53-45 11(N) 50.000 kw 441 m DA 10.0 % 33.0  
GRAND RAPIDS MI 14630 1077 DTVSERVICE: 1077000 NTSCSERVICE: 1076000  
CP BPEDT19990113KI CLASS EX

1.00	0.97	0.89	0.77	0.64	0.52	0.46	0.46	0.49	0.50	0.49	0.46
0.46	0.52	0.64	0.77	0.89	0.97	1.00	0.97	0.89	0.77	0.64	0.52
0.46	0.46	0.49	0.50	0.49	0.46	0.46	0.52	0.64	0.77	0.89	0.97

Ref Az: 0.0

D/U Baseline: 19.50  
%loc = 10.00%time = 10

	Area	Pop
Interference	64.41	943( 0.4)

Study end time: 17:53:42