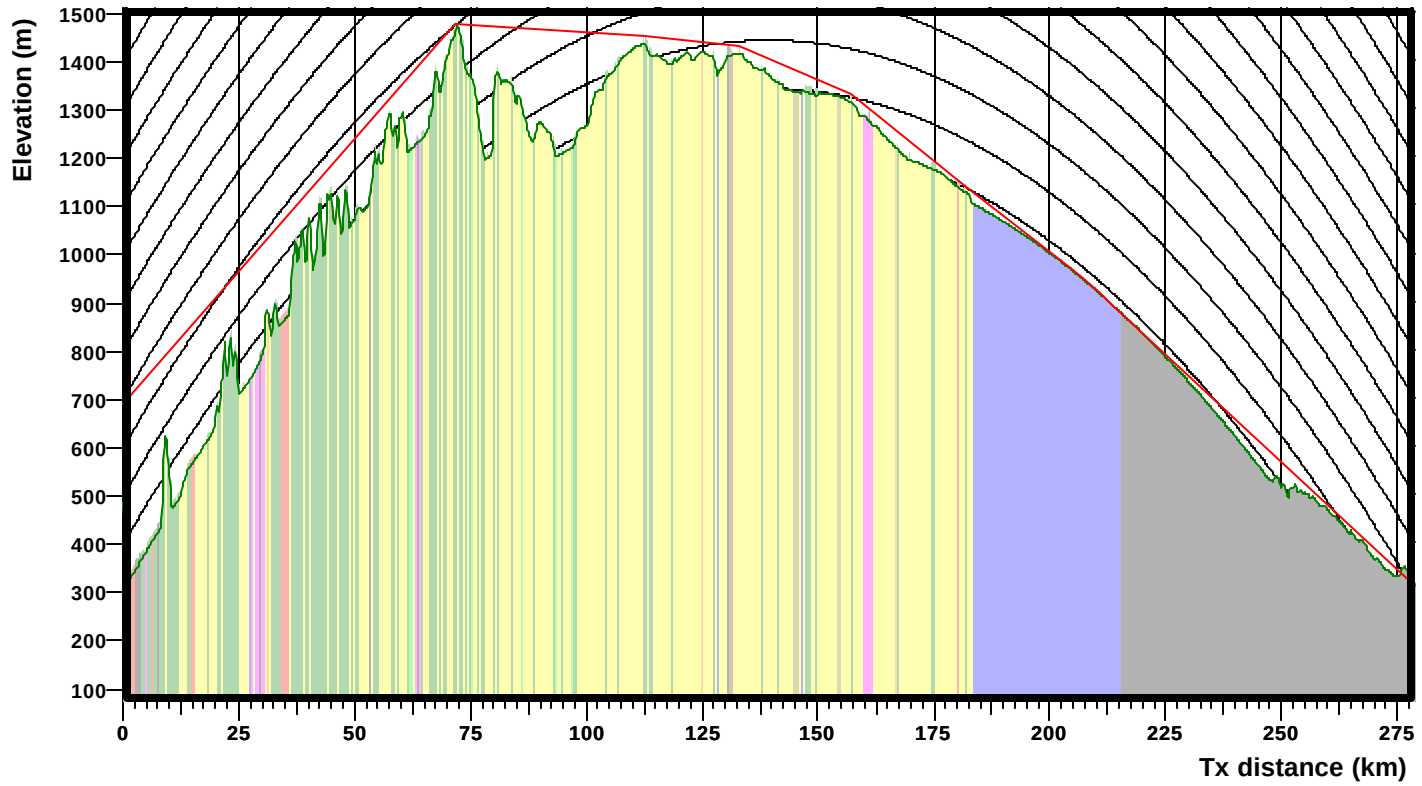
Link Study: trn/WSKADT-Peter31.trn




**SIGNAL™**

Prop. model: FCC + RMD
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 0.500, 2.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -200.0 dBmW
Dispersive fade margin: 80.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: WSKADT
Name: Transmitter Site
Location:
N42°08'29.73" W77°04'39.11"
Site elevation: 512.0 m
Antenna height: 177.0 m
Pointing azimuth: 318.5 °
Transmitter power: 10.14 dBkW
Trans. line loss: 1.00 dB
Other losses: 0.00 dB
Antenna gain: 7.85 dBd
Antenna file:
Total ERP: 19.14 dBkW

Name: WSKADT ->Peter31
Frequency: 567.2500 MHz
Polarization: vertical
Length: 278.76 km
Number of obstacles: 9
Excess path loss: 153.63 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 290.07 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: Peter31
Name: Peterboro DTV left edge
Location:
N43°59'48.33" W79°23'20.24"
Site elevation: 306.2 m
Antenna height: 9.1 m
Pointing azimuth: 138.5 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 6.00 dBd
Antenna file:
Received signal level: -262.78 dBkW

Notes

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# TERRAIN PROFILE

WSKA to Peterborough ON

Figure 6A 05/15/2005