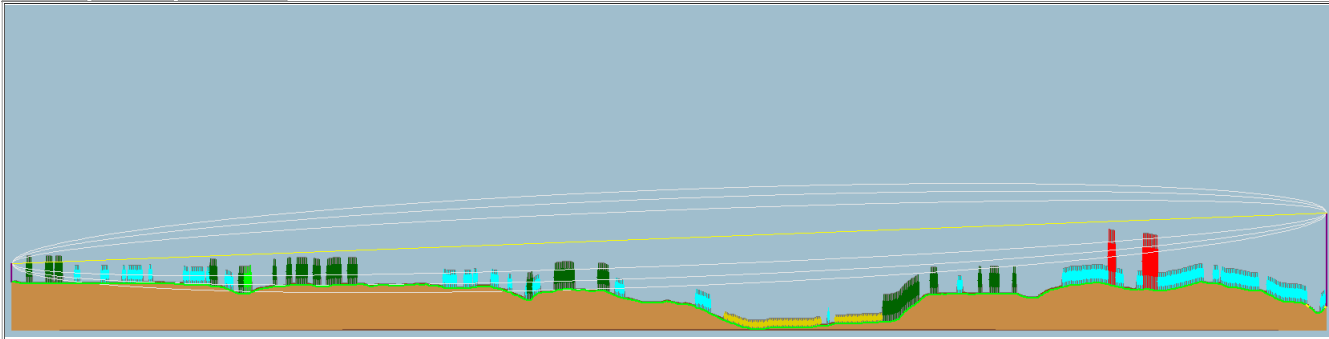


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ART to Beatty

ART/CINDY (1)		(2) Beatty Towers W4DFU	
Latitude	29.685070 °	Latitude	29.644083 °
Longitude	-82.394028 °	Longitude	-82.340751 °
Ground elevation	49.0 m	Ground elevation	36.1 m
Antenna height	10.0 m	Antenna height	50.0 m
Azimuth	131.51 TN 137.21 MG °	Azimuth	311.53 TN 317.27 MG °
Tilt	0.19 °	Tilt	-0.26 °

Radio system		Propagation	
TX power	26.99 dBm	Free space loss	116.42 dB
TX line loss	0.50 dB	Obstruction loss	15.18 dB
TX antenna gain	15.00 dBi	Forest loss	1.41 dB
RX antenna gain	15.00 dBi	Urban loss	1.00 dB
RX line loss	0.50 dB	Statistical loss	16.30 dB
RX sensitivity	-94.96 dBm	Total path loss	150.31 dB

Performance	
Distance	6.875 km
Precision	10.0 m
Frequency	2310.000 MHz
Equivalent Isotropically Radiated Power	14.092 W
System gain	150.95 dB
Required reliability	90.000 %
Received Signal	-94.32 dBm
Received Signal	4.30 μV
Fade Margin	0.63 dB

