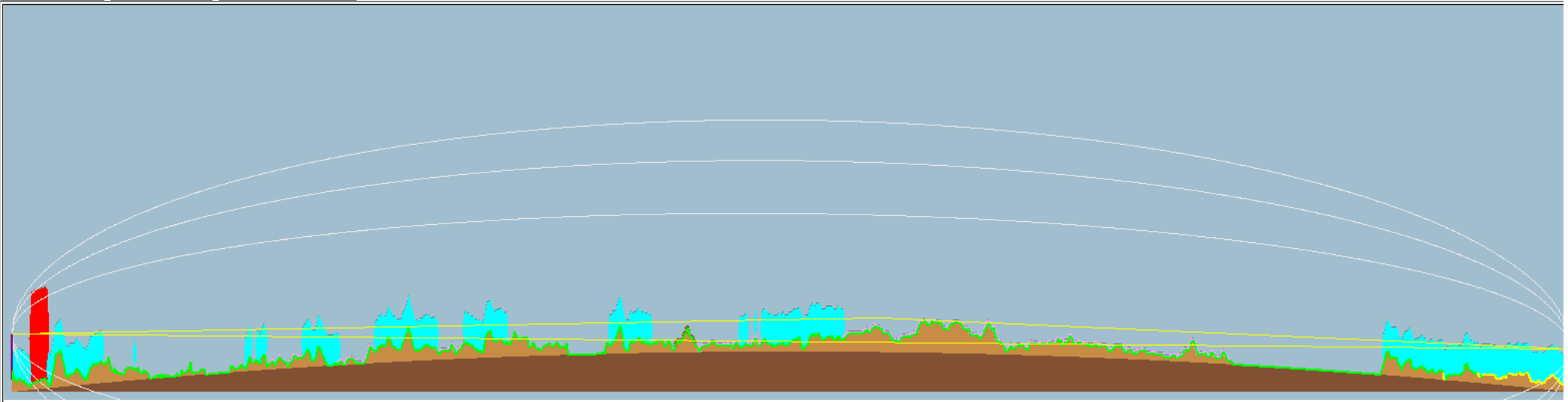


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Radio link study 6****

GB3GG (1)		(2) G3GJ	
Latitude	53.570560 °	Latitude	53.748378 °
Longitude	-0.074019 °	Longitude	-0.413098 °
Ground elevation	4.0 m	Ground elevation	4.2 m
Antenna height	15.0 m	Antenna height	10.0 m
Azimuth	311.64 TN 312.02 MG °	Azimuth	131.37 TN 131.89 MG °
Tilt	-0.14 °	Tilt	-0.12 °
Radio system		Propagation	
TX power	40.41 dBm	Free space loss	124.17 dB
TX line loss	2.50 dB	Obstruction loss	19.82 dB
TX antenna gain	8.20 dBi	Forest loss	1.00 dB
RX antenna gain	20.00 dBi	Urban loss	12.55 dB
RX line loss	1.00 dB	Statistical loss	7.52 dB
RX sensitivity	-100.98 dBm	Total path loss	165.06 dB
Performance			
Distance		29.835 km	
Precision		14.9 m	
Frequency		1300.000 MHz	
Equivalent Isotropically Radiated Power		40.869 W	
System gain		166.09 dB	
Required reliability		75.000 %	
Received Signal		-99.95 dBm	
Received Signal		2.25 µV	
Fade Margin		1.03 dB	

