



LigoWave Link Analysis Report

Date Generated: 1/3/2011 6:41 PM EST

SITE INFORMATION

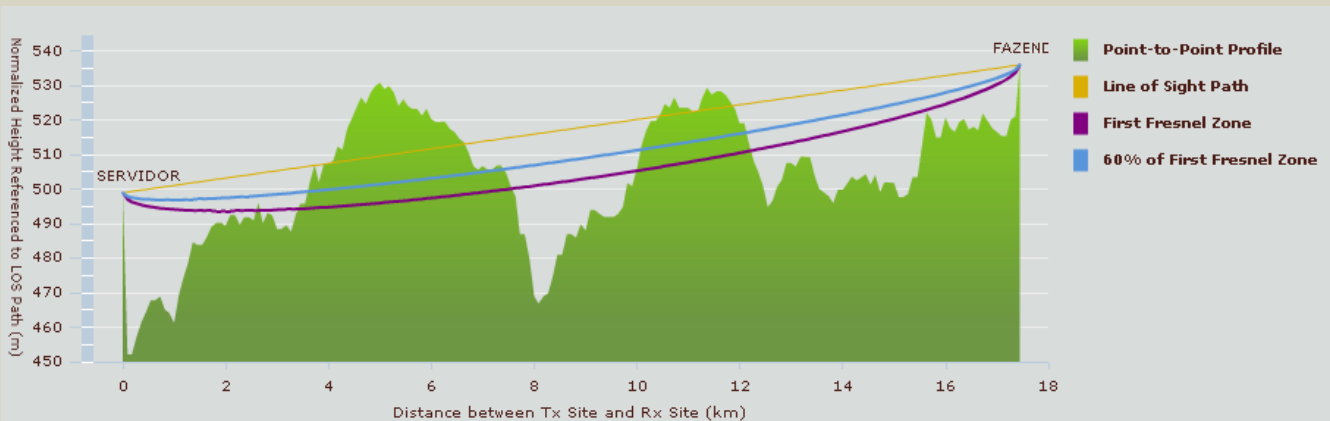
Tx Site Name	: SERVIDOR	Rx Site Name	: FAZENDA
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 18° 24' 45.54" S (18.41265)	Latitude	: 18° 17' 13.29" S (18.287025)
Longitude	: 49° 12' 29.43" W (49.208175)	Longitude	: 49° 6' 33.25" W (49.109236)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 30 dBi	Ant. Gain	: 30 dBi
Ant. Height	: 48 meters	Ant. Height	: 8 meters

PARAMETERS

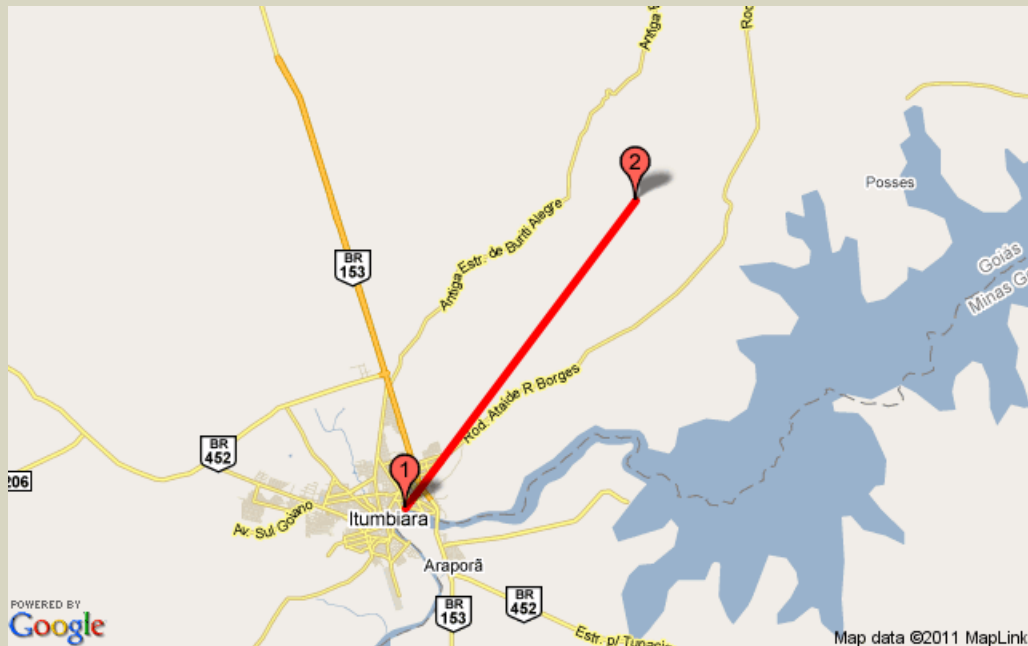
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 178.91 dBm	Thermal Fade Margin	: 0.09 dBm
Rx Signal Level	: -93.91 dBm	Distance between sites	: 17.44 km
EIRP	: 55 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:178.91 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-93.91 dBm	0.09 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-93.91 dBm	-2.91 dBm	0%	1X1	12 Mbps
QPSK 3/4	-93.91 dBm	-4.91 dBm	0%	1X1	18 Mbps
16-QAM 1/2	-94.91 dBm	-8.91 dBm	0%	1X1	22 Mbps
16-QAM 3/4	-96.91 dBm	-14.91 dBm	0%	1X1	38 Mbps
64-QAM 2/3	-97.91 dBm	-20.91 dBm	0%	1X1	44 Mbps
64-QAM 3/4	-98.91 dBm	-23.91 dBm	0%	1X1	50 Mbps
64-QAM 5/6	-99.91 dBm	-26.91 dBm	0%	1X1	55 Mbps
BPSK 1/2	-93.91 dBm	0.09 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-93.91 dBm	-2.91 dBm	0%	2X2	24 Mbps
QPSK 3/4	-93.91 dBm	-4.91 dBm	0%	2X2	36 Mbps
16-QAM 1/2	-94.91 dBm	-8.91 dBm	0%	2X2	44 Mbps
16-QAM 3/4	-96.91 dBm	-14.91 dBm	0%	2X2	76 Mbps
64-QAM 2/3	-97.91 dBm	-20.91 dBm	0%	2X2	88 Mbps
64-QAM 3/4	-98.91 dBm	-23.91 dBm	0%	2X2	100 Mbps
64-QAM 5/6	-99.91 dBm	-26.91 dBm	0%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-93.91 dBm	0.09 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-93.91 dBm	-2.91 dBm	0%	1X1	24 Mbps
QPSK 3/4	-93.91 dBm	-4.91 dBm	0%	1X1	36 Mbps
16-QAM 1/2	-94.91 dBm	-8.91 dBm	0%	1X1	44 Mbps
16-QAM 3/4	-96.91 dBm	-14.91 dBm	0%	1X1	76 Mbps
64-QAM 2/3	-97.91 dBm	-20.91 dBm	0%	1X1	88 Mbps
64-QAM 3/4	-98.91 dBm	-23.91 dBm	0%	1X1	100 Mbps
64-QAM 5/6	-99.91 dBm	-26.91 dBm	0%	1X1	110 Mbps
BPSK 1/2	-93.91 dBm	0.09 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-93.91 dBm	-2.91 dBm	0%	2X2	48 Mbps
QPSK 3/4	-93.91 dBm	-4.91 dBm	0%	2X2	72 Mbps
16-QAM 1/2	-94.91 dBm	-8.91 dBm	0%	2X2	88 Mbps
16-QAM 3/4	-96.91 dBm	-14.91 dBm	0%	2X2	115 Mbps
64-QAM 2/3	-97.91 dBm	-20.91 dBm	0%	2X2	135 Mbps
64-QAM 3/4	-98.91 dBm	-23.91 dBm	0%	2X2	160 Mbps
64-QAM 5/6	-99.91 dBm	-26.91 dBm	0%	2X2	180 Mbps