



LigoWave Link Analysis Report

Date Generated: 9/30/2010 2:01 PM EST

SITE INFORMATION

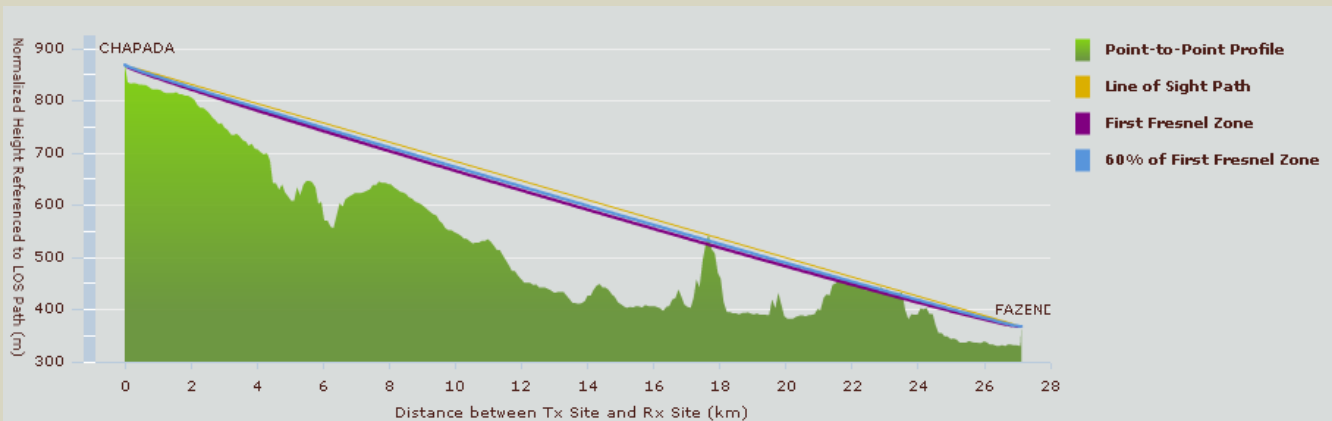
Tx Site Name	: CHAPADA	Rx Site Name	: FAZENDA
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 15° 28' 4.3111" S (15.467864)	Latitude	: 15° 16' 8.8583" S (15.269127)
Longitude	: 55° 44' 9.6591" W (55.736016)	Longitude	: 55° 35' 21.6327" W (55.589342)
Tx Power	: 17 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 30 dBi	Ant. Gain	: 30 dBi
Ant. Height	: 33 meters	Ant. Height	: 38 meters

PARAMETERS

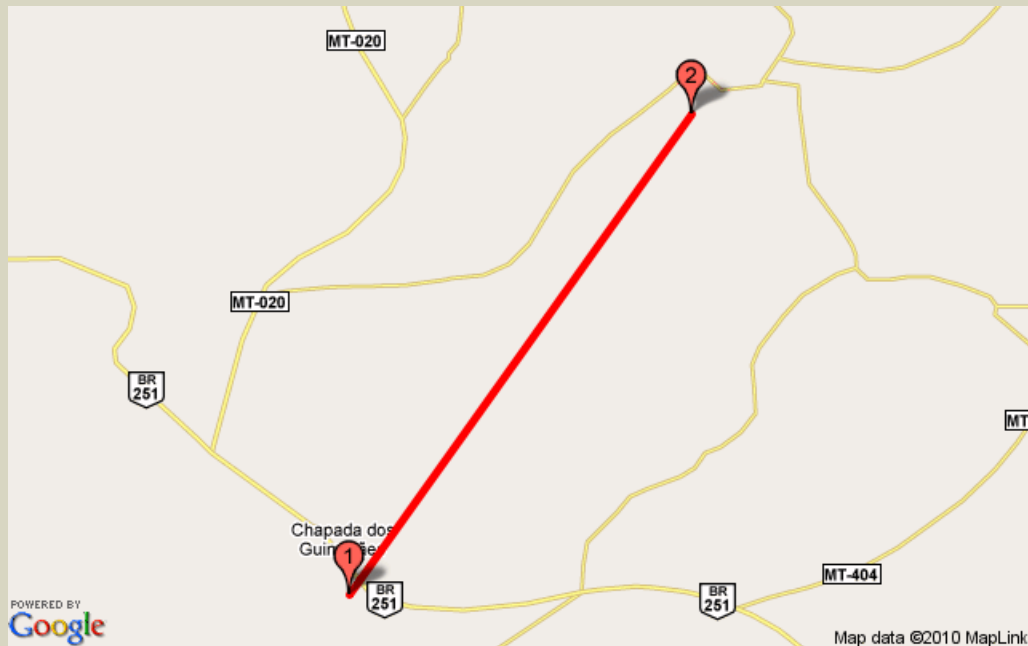
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Horizontal	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 137.04 dBm	Thermal Fade Margin	: 33.96 dBm
Rx Signal Level	: -60.04 dBm	Distance between sites	: 27.12 km
EIRP	: 47 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:137.04 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-52.04 dBm	41.96 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-52.04 dBm	38.96 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-52.04 dBm	36.96 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-53.04 dBm	32.96 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-55.04 dBm	26.96 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-56.04 dBm	20.96 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-57.04 dBm	17.96 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-58.04 dBm	14.96 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-52.04 dBm	41.96 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-52.04 dBm	38.96 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-52.04 dBm	36.96 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-53.04 dBm	32.96 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-55.04 dBm	26.96 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-56.04 dBm	20.96 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-57.04 dBm	17.96 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-58.04 dBm	14.96 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-52.04 dBm	41.96 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-52.04 dBm	38.96 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-52.04 dBm	36.96 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-53.04 dBm	32.96 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-55.04 dBm	26.96 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-56.04 dBm	20.96 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-57.04 dBm	17.96 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-58.04 dBm	14.96 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-52.04 dBm	41.96 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-52.04 dBm	38.96 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-52.04 dBm	36.96 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-53.04 dBm	32.96 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-55.04 dBm	26.96 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-56.04 dBm	20.96 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-57.04 dBm	17.96 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-58.04 dBm	14.96 dBm	N/A%	2X2	180 Mbps