



LigoWave Link Analysis Report

Date Generated: 10/4/2010 11:03 AM EST

SITE INFORMATION

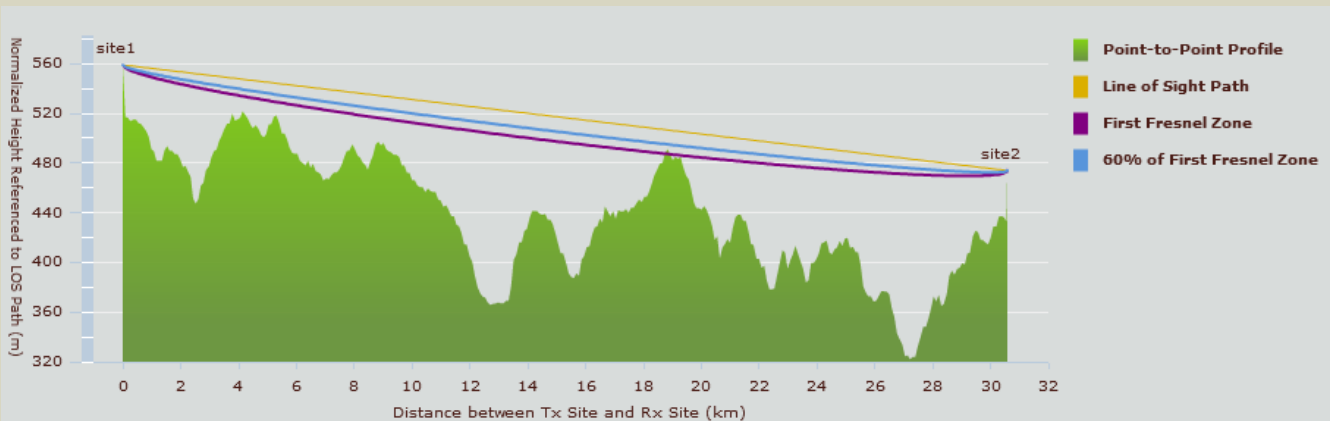
Tx Site Name	: site1	Rx Site Name	: site2
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 23° 38' 54.0168" S (23.648338)	Latitude	: 23° 25' 6.3516" S (23.418431)
Longitude	: 52° 36' 42.6276" W (52.611841)	Longitude	: 52° 46' 34.7988" W (52.776333)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 30 dBi	Ant. Gain	: 30 dBi
Ant. Height	: 40 meters	Ant. Height	: 40 meters

PARAMETERS

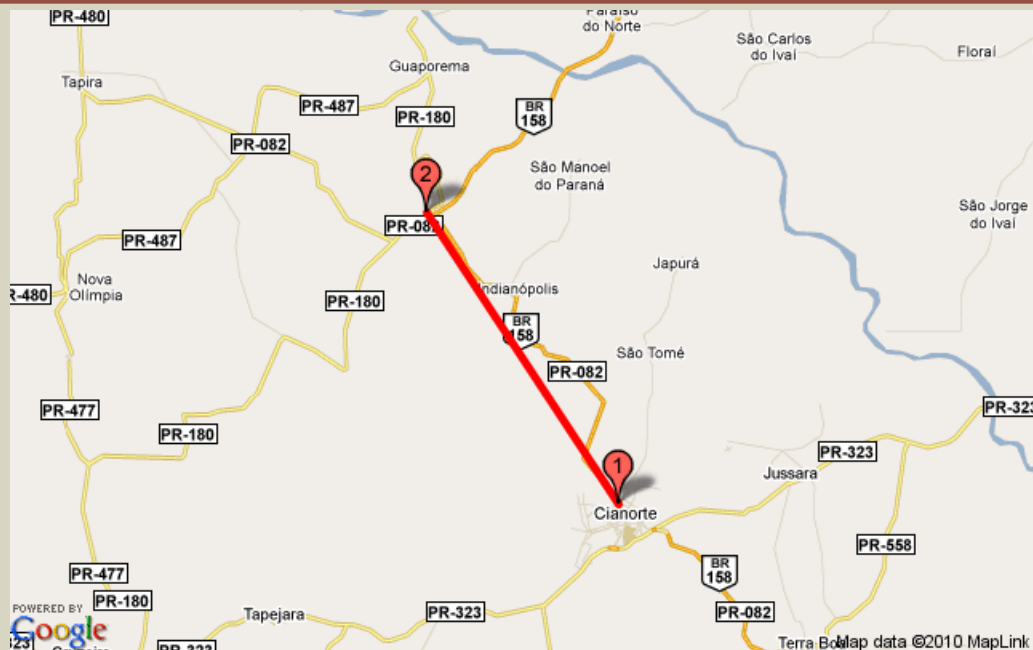
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 138.4 dBm	Thermal Fade Margin	: 40.6 dBm
Rx Signal Level	: -53.4 dBm	Distance between sites	: 30.58 km
EIRP	: 55 dBm	Link availability due to rain	: N/A%



MAP



DISCLAIMER: These results are provided with no guarantee or warranty.

Path Loss:138.4 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.4 dBm	40.6 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-53.4 dBm	37.6 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-53.4 dBm	35.6 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-54.4 dBm	31.6 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-56.4 dBm	25.6 dBm	N/A%	1X1	38 Mbps
64-QAM 2/3	-57.4 dBm	19.6 dBm	N/A%	1X1	44 Mbps
64-QAM 3/4	-58.4 dBm	16.6 dBm	N/A%	1X1	50 Mbps
64-QAM 5/6	-59.4 dBm	13.6 dBm	N/A%	1X1	55 Mbps
BPSK 1/2	-53.4 dBm	40.6 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-53.4 dBm	37.6 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-53.4 dBm	35.6 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-54.4 dBm	31.6 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-56.4 dBm	25.6 dBm	N/A%	2X2	76 Mbps
64-QAM 2/3	-57.4 dBm	19.6 dBm	N/A%	2X2	88 Mbps
64-QAM 3/4	-58.4 dBm	16.6 dBm	N/A%	2X2	100 Mbps
64-QAM 5/6	-59.4 dBm	13.6 dBm	N/A%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-53.4 dBm	40.6 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-53.4 dBm	37.6 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-53.4 dBm	35.6 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-54.4 dBm	31.6 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-56.4 dBm	25.6 dBm	N/A%	1X1	76 Mbps
64-QAM 2/3	-57.4 dBm	19.6 dBm	N/A%	1X1	88 Mbps
64-QAM 3/4	-58.4 dBm	16.6 dBm	N/A%	1X1	100 Mbps
64-QAM 5/6	-59.4 dBm	13.6 dBm	N/A%	1X1	110 Mbps
BPSK 1/2	-53.4 dBm	40.6 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-53.4 dBm	37.6 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-53.4 dBm	35.6 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-54.4 dBm	31.6 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-56.4 dBm	25.6 dBm	N/A%	2X2	115 Mbps
64-QAM 2/3	-57.4 dBm	19.6 dBm	N/A%	2X2	135 Mbps
64-QAM 3/4	-58.4 dBm	16.6 dBm	N/A%	2X2	160 Mbps
64-QAM 5/6	-59.4 dBm	13.6 dBm	N/A%	2X2	180 Mbps