



LigoWave Link Analysis Report

Date Generated: 6/17/2012 11:45 AM EST

SITE INFORMATION

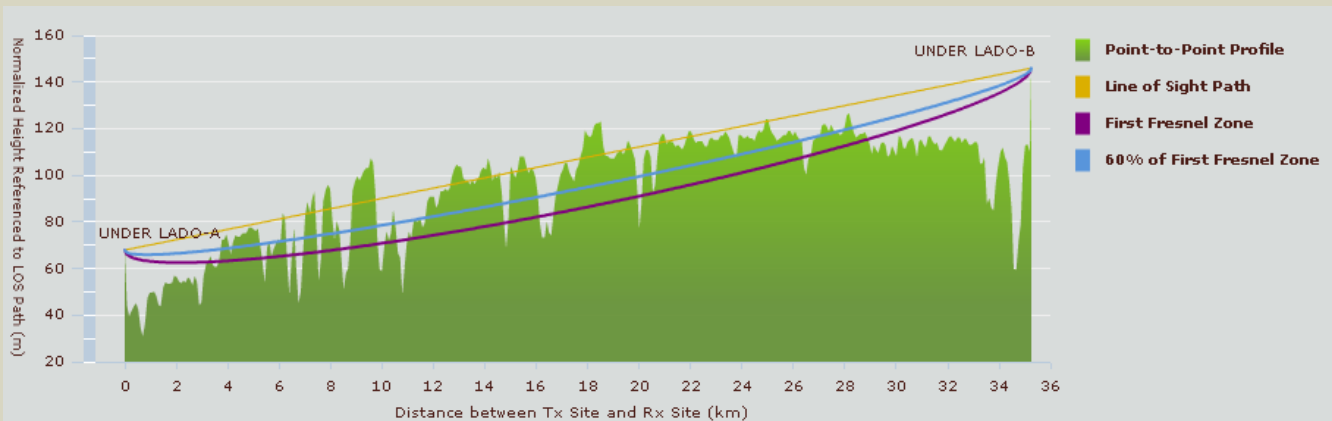
Tx Site Name	: UNDER LADO-A	Rx Site Name	: UNDER LADO-B
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 18° 43' 13.81" S (18.720503)	Latitude	: 18° 43' 41.82" S (18.728283)
Longitude	: 39° 53' 14.39" W (39.887331)	Longitude	: 40° 13' 19.31" W (40.222031)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 34 dBi	Ant. Gain	: 34 dBi
Ant. Height	: 24 meters	Ant. Height	: 36 meters

PARAMETERS

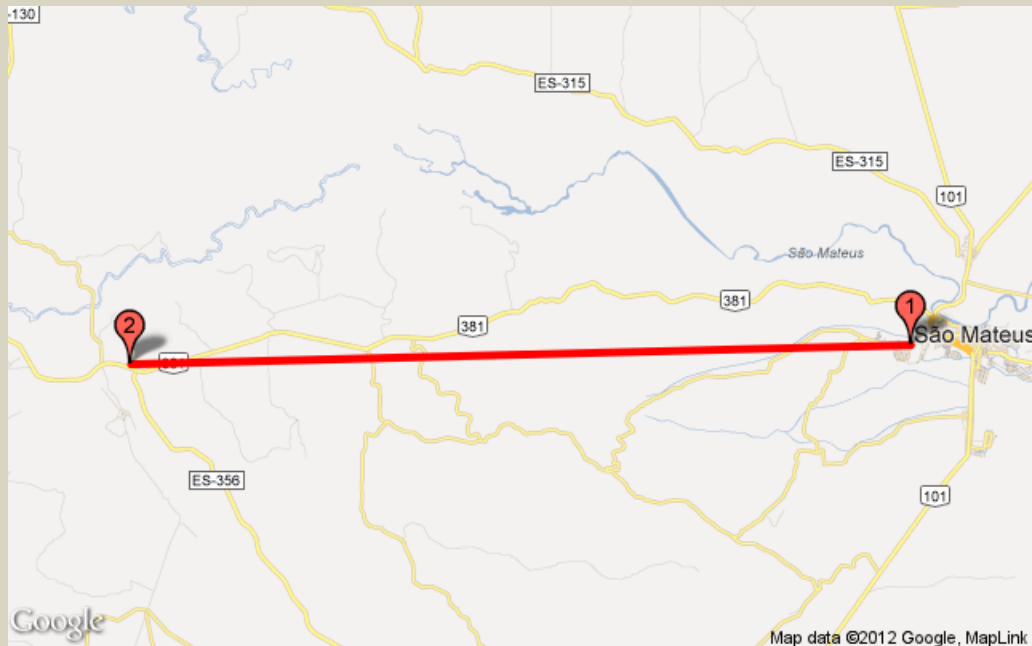
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 173.47 dBm	Thermal Fade Margin	: 13.53 dBm
Rx Signal Level	: -80.47 dBm	Distance between sites	: 35.26 km
EIRP	: 59 dBm	Link availability due to rain	: N/A%



MAP



Path Loss:173.47 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-80.47 dBm	13.53 dBm	N/A%	1X1	6 Mbps
QPSK 1/2	-80.47 dBm	10.53 dBm	N/A%	1X1	12 Mbps
QPSK 3/4	-80.47 dBm	8.53 dBm	N/A%	1X1	18 Mbps
16-QAM 1/2	-81.47 dBm	4.53 dBm	N/A%	1X1	22 Mbps
16-QAM 3/4	-83.47 dBm	-1.47 dBm	0%	1X1	38 Mbps
64-QAM 2/3	-84.47 dBm	-7.47 dBm	0%	1X1	44 Mbps
64-QAM 3/4	-85.47 dBm	-10.47 dBm	0%	1X1	50 Mbps
64-QAM 5/6	-86.47 dBm	-13.47 dBm	0%	1X1	55 Mbps
BPSK 1/2	-80.47 dBm	13.53 dBm	N/A%	2X2	12 Mbps
QPSK 1/2	-80.47 dBm	10.53 dBm	N/A%	2X2	24 Mbps
QPSK 3/4	-80.47 dBm	8.53 dBm	N/A%	2X2	36 Mbps
16-QAM 1/2	-81.47 dBm	4.53 dBm	N/A%	2X2	44 Mbps
16-QAM 3/4	-83.47 dBm	-1.47 dBm	0%	2X2	76 Mbps
64-QAM 2/3	-84.47 dBm	-7.47 dBm	0%	2X2	88 Mbps
64-QAM 3/4	-85.47 dBm	-10.47 dBm	0%	2X2	100 Mbps
64-QAM 5/6	-86.47 dBm	-13.47 dBm	0%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-80.47 dBm	13.53 dBm	N/A%	1X1	12 Mbps
QPSK 1/2	-80.47 dBm	10.53 dBm	N/A%	1X1	24 Mbps
QPSK 3/4	-80.47 dBm	8.53 dBm	N/A%	1X1	36 Mbps
16-QAM 1/2	-81.47 dBm	4.53 dBm	N/A%	1X1	44 Mbps
16-QAM 3/4	-83.47 dBm	-1.47 dBm	0%	1X1	76 Mbps
64-QAM 2/3	-84.47 dBm	-7.47 dBm	0%	1X1	88 Mbps
64-QAM 3/4	-85.47 dBm	-10.47 dBm	0%	1X1	100 Mbps
64-QAM 5/6	-86.47 dBm	-13.47 dBm	0%	1X1	110 Mbps
BPSK 1/2	-80.47 dBm	13.53 dBm	N/A%	2X2	24 Mbps
QPSK 1/2	-80.47 dBm	10.53 dBm	N/A%	2X2	48 Mbps
QPSK 3/4	-80.47 dBm	8.53 dBm	N/A%	2X2	72 Mbps
16-QAM 1/2	-81.47 dBm	4.53 dBm	N/A%	2X2	88 Mbps
16-QAM 3/4	-83.47 dBm	-1.47 dBm	0%	2X2	115 Mbps
64-QAM 2/3	-84.47 dBm	-7.47 dBm	0%	2X2	135 Mbps
64-QAM 3/4	-85.47 dBm	-10.47 dBm	0%	2X2	160 Mbps
64-QAM 5/6	-86.47 dBm	-13.47 dBm	0%	2X2	180 Mbps