



LigoWave Link Analysis Report

Date Generated: 1/26/2011 8:50 AM EST

SITE INFORMATION

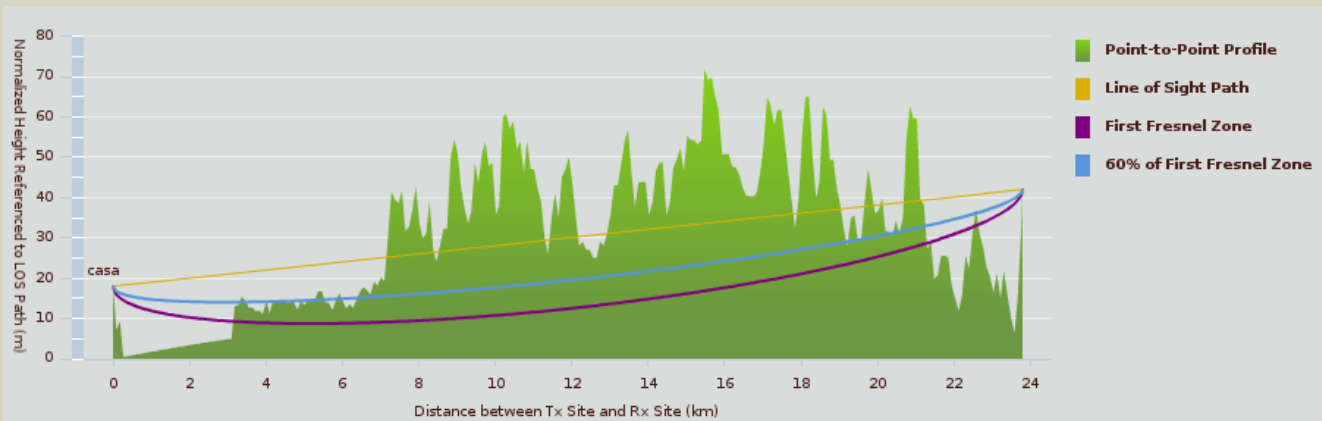
Tx Site Name	: casa	Rx Site Name	:
Radio Type	: LigoPTP 5 Mimo	Radio Type	: LigoPTP 5 Mimo
Latitude	: 22° 22' 32.65" S (22.375736)	Latitude	: 22° 11' 9.37" S (22.185936)
Longitude	: 41° 46' 30.23" W (41.775064)	Longitude	: 41° 40' 5.61" W (41.668225)
Tx Power	: 25 dBm	Rx Threshold	: -94 dBm
Ant. Gain	: 30 dBi	Ant. Gain	: 30 dBi
Ant. Height	: 9 meters	Ant. Height	: 9 meters

PARAMETERS

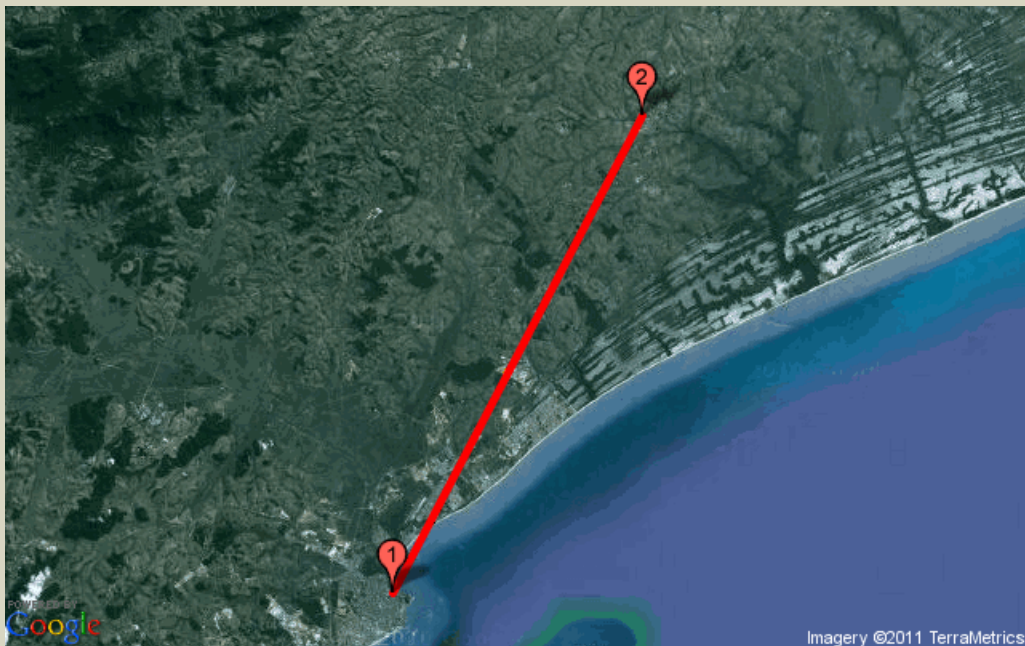
Frequency	: 5800 MHz	Climate	: Continental Temperate
Ant. Polarization	: Vertical	Measurement System	: Metric System
Misc. Loss	: 0 dBm	Rain Rate	: 0 mm/hr

RESULTS

Total Path Loss	: 199.83 dBm	Thermal Fade Margin	: -20.83 dBm
Rx Signal Level	: -114.83 dBm	Distance between sites	: 23.8 km
EIRP	: 55 dBm	Link availability due to rain	: 0%



MAP



Path Loss:199.83 dBm

20MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-114.83 dBm	-20.83 dBm	0%	1X1	6 Mbps
QPSK 1/2	-114.83 dBm	-23.83 dBm	0%	1X1	12 Mbps
QPSK 3/4	-114.83 dBm	-25.83 dBm	0%	1X1	18 Mbps
16-QAM 1/2	-115.83 dBm	-29.83 dBm	0%	1X1	22 Mbps
16-QAM 3/4	-117.83 dBm	-35.83 dBm	0%	1X1	38 Mbps
64-QAM 2/3	-118.83 dBm	-41.83 dBm	0%	1X1	44 Mbps
64-QAM 3/4	-119.83 dBm	-44.83 dBm	0%	1X1	50 Mbps
64-QAM 5/6	-120.83 dBm	-47.83 dBm	0%	1X1	55 Mbps
BPSK 1/2	-114.83 dBm	-20.83 dBm	0%	2X2	12 Mbps
QPSK 1/2	-114.83 dBm	-23.83 dBm	0%	2X2	24 Mbps
QPSK 3/4	-114.83 dBm	-25.83 dBm	0%	2X2	36 Mbps
16-QAM 1/2	-115.83 dBm	-29.83 dBm	0%	2X2	44 Mbps
16-QAM 3/4	-117.83 dBm	-35.83 dBm	0%	2X2	76 Mbps
64-QAM 2/3	-118.83 dBm	-41.83 dBm	0%	2X2	88 Mbps
64-QAM 3/4	-119.83 dBm	-44.83 dBm	0%	2X2	100 Mbps
64-QAM 5/6	-120.83 dBm	-47.83 dBm	0%	2X2	110 Mbps

40MHz CHANNEL					
MODULATION	RX LEVEL	FADE MARGIN	AVAILABILITY	TX/RX	MAX THROUGHPUT
BPSK 1/2	-114.83 dBm	-20.83 dBm	0%	1X1	12 Mbps
QPSK 1/2	-114.83 dBm	-23.83 dBm	0%	1X1	24 Mbps
QPSK 3/4	-114.83 dBm	-25.83 dBm	0%	1X1	36 Mbps
16-QAM 1/2	-115.83 dBm	-29.83 dBm	0%	1X1	44 Mbps
16-QAM 3/4	-117.83 dBm	-35.83 dBm	0%	1X1	76 Mbps
64-QAM 2/3	-118.83 dBm	-41.83 dBm	0%	1X1	88 Mbps
64-QAM 3/4	-119.83 dBm	-44.83 dBm	0%	1X1	100 Mbps
64-QAM 5/6	-120.83 dBm	-47.83 dBm	0%	1X1	110 Mbps
BPSK 1/2	-114.83 dBm	-20.83 dBm	0%	2X2	24 Mbps
QPSK 1/2	-114.83 dBm	-23.83 dBm	0%	2X2	48 Mbps
QPSK 3/4	-114.83 dBm	-25.83 dBm	0%	2X2	72 Mbps
16-QAM 1/2	-115.83 dBm	-29.83 dBm	0%	2X2	88 Mbps
16-QAM 3/4	-117.83 dBm	-35.83 dBm	0%	2X2	115 Mbps
64-QAM 2/3	-118.83 dBm	-41.83 dBm	0%	2X2	135 Mbps
64-QAM 3/4	-119.83 dBm	-44.83 dBm	0%	2X2	160 Mbps
64-QAM 5/6	-120.83 dBm	-47.83 dBm	0%	2X2	180 Mbps