

LinkBudget:

South East Spot Beams: QPSK, Turbo Rate 5/6

DATA RATE	31698.48	kbps	sat	BSS129	UPLINK SITE	
NUMBER OF PHASES	4		xpdr	1	UPLINK SFD	-99.00 dBW/m2
LDPC	5	6	loc	-129.0	ATTENUATOR	10.0 dB
SPECTRAL EFFICIENCY	1.584924				UPLINK G/T	5.00 dB/K
REQUIRED Eb/No	3.70	dB			UPLINK FREQ	17300.00 MHz
IF BANDWIDTH	20000.0	kHz			DOWNLINK FREQ	12200.00 MHz
C/N REQUIRED	5.70	dB			UPLINK EIRP	73.5 dBW
Faded System Margin	0.3	dB			Uncompensated U/L Fade	0.0 dB
Antenna Efficiency	63.00%				UPLINK C/N	25.1 dB

Spacing Factor	1.2			Transponder Bandwidth	24.0	MHz
Required Bandwidth	24.000	MHz		Required Bandwidth	100.00	%
Allocated Bandwidth	24.000	MHz		Allocated Bandwidth	100.00	%
Transponder SCPC IBO	0.0	dB		Carrier Allocated Power	100.00	%
Transponder SCPC OBO	0.0	dB				
Carrier IBO	0.00	dB				
Carrier OBO	0.00	dB				

	0.45	ANT	ES	ANT	Assumed	MINIMUM	XPDR	CLEAR-SKY	MARGIN	
RECEIVE SITE		DIA	Tsys	G/T	C/I	C/N	SAT	DOWNLINK	TO	
		(m)	(K)	(dB/K)	(dB)	DOWN	EIRP	C/N	MIN C/Ndn	
						(dB)	(dBW)	(dB)	(dB)	
TAMPA FL		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.5	12.5
ST PETERSBURG FL		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.6	12.5
SARASOTA FL		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.6	12.5
CHARLESTON SC		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.5	12.4
NEW ORLEANS LA		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.6	12.6
HOUSTON TX		0.50	105.0	13.6	12.9	7.1	56.30	56.30	19.7	12.7