

<b>Link Parameters</b>	<b>Clear Sky</b>
<b>Carrier</b>	
Data Rate	(Mbps) 69.100
Modulation	QPSK
FEC	0.691
Bandwidth	(dB-Hz) 77.8
<b>Uplink</b>	
Uplink Frequency	(MHz) 29,655
Tx E/S Antenna Diameter	(m) 8.10
Tx E/S Power to Antenna	(dBW) 7.4
Input Power Density	(dBW/Hz) -70.4
Tx E/S Antenna Gain	(dB) 62.9
Tx E/S EIRP per Carrier	(dBW) 70.3
Mispointing Error	(dB) 0.5
Atmospheric Losses	(dB) 0.5
Free Space Loss	(dB) 213.6
Satellite Antenna Gain (- 3dB)	(dBi) 52.2
Satellite Antenna G/T (-3 dB)	(dB/K) 23.5
(C/I) Up - Intra-system	(dB) 24.0
<b>Downlink</b>	
Downlink Frequency	(MHz) 18,716
Downlink EIRP (-3 dB)	(dBW) 58.8
Beam Peak EIRP Density	(dBW/Hz) -16.0
Atmospheric Losses	(dB) 0.3
Free Space Loss	(dB) 209.6
Rx E/S Antenna Diameter	(m) 0.65
Antenna Mispointing Error	(dB) 0.30
Rx E/S Antenna Gain	(dB) 40.3
Rx E/S G/T	(dB/K) 19.1
System Noise Temp.	(K) 132
(C/I) Dn - Intra-system	(dB) 19.0
<b>End-to-End</b>	
(C/N) - Thermal Uplink	(dB) 30.0
(C/N) - Thermal Downlink	(dB) 18.5
(C/I) Up - ASI	(dB) 25.7
(C/I) Dn - ASI	(dB) 20.1
(C/N+I) - Total Actual	(dB) 13.6
(C/N+I) - Total Required	(dB) 5.1
System Margin	(dB) 8.5