

| Link Parameters | Clear Sky (- 3dB Contour) | Faded (-3 dB Contour) |
|----------------------------------|------------------------------|--------------------------|
| General: | | |
| Emmision Designator | 111KG7W | 111KG7W |
| Data Rate (kbps) | 128 | 128 |
| Modulation | QPSK | QPSK |
| Coding Rate | 0.691 | 0.691 |
| Carrier Bandwidth (kHz) | 111 | 111 |
| Uplink Frequency (MHz) | 29,800 | 29,800 |
| Link Geometry: | | |
| Elevation Angle (degrees) | 30.0 | 30.0 |
| Tx E/S Range to Satellite (km) | 38,612 | 38,612 |
| Uplink: | | |
| Tx E/S Antenna Diameter (m) | 0.66 | 0.66 |
| Tx E/S Power to Antenna (W) | 0.15 | 0.20 |
| Tx E/S Antenna Gain (dB) | 44.1 | 44.1 |
| Tx E/S EIRP per Carrier (dBW) | 35.8 | 37.1 |
| Atmospheric and Rain Losses (dB) | 0.4 | 10.6 |
| Free Space Loss (dB) | 213.7 | 213.7 |
| G/T towards Tx E/S (dB/K) | 15.8 | 15.8 |
| (Eb/No) - Thermal Uplink (dB) | 15.1 | 6.1 |
| (Eb/lo) - (ASI) (dB) | 16.2 | 16.2 |
| (Eb/No+lo) - Total Actual (dB) | 12.6 | 5.7 |
| (Eb/No+lo) - Total Required (dB) | 5.5 | 5.5 |
| Excess Margin (dB) | 7.1 | 0.2 |
| Availability (%) | N/A | 99.80 |