

| Link Parameters | Clear Sky (- 3dB Contour) | Faded (-3 dB Contour) |
|---------------------------------------|--------------------------------------|----------------------------------|
| General: | | |
| Emmision Designator | 125MG7W | 125MG7W |
| Data Rate (Mbps) | 144 | 144 |
| Modulation | QPSK | QPSK |
| Coding Rate | 0.691 | 0.691 |
| Carrier Bandwidth (MHz) | 125 | 125 |
| Downlink Frequency (MHz) | 20,000 | 20,000 |
| Link Geometry: | | |
| Elevation Angle (degrees) | 30.0 | 30.0 |
| Rx E/S Range to Satellite (km) | 38,612 | 38,612 |
| Downlink: | | |
| Carrier Frequency (MHz) | 20,000 | 20,000 |
| EIRP per Carrier towards Rx E/S (dBW) | 62.0 | 62.0 |
| Atmospheric and Other Losses (dB) | 0.4 | 6.0 |
| Free Space Loss (dB) | 210.2 | 210.2 |
| Rx E/S Antenna Diameter (m) | 0.66 | 0.66 |
| Antenna Mis-pointing Error (dB) | 0.50 | 0.50 |
| Rx E/S Antenna Gain (dB) | 40.6 | 40.6 |
| Rx E/S G/T (dB/K) | 17.6 | 14.5 |
| System (LNA+Sky) Noise Temp. (K) | 200 | 403 |
| (Eb/No) - Thermal Downlink (dB) | 15.5 | 6.9 |
| (Eb/lo) - (ASI) (dB) | 13.7 | 13.7 |
| (Eb/No+lo) - Total Actual (dB) | 11.5 | 6.0 |
| (Eb/No+lo) - Total Required (dB) | 5.5 | 5.5 |
| Excess Margin (dB) | 6.0 | 0.5 |
| Availabilty (%) | N/A | 99.85 |