

**Radio Mobile Online Coverage report**

Description	1.2GHz D-STAR 99 pct
Frequency	1282.2 MHz
Base Name	Upper Shack
Latitude	38.46734599 °
Longitude	-77.46014093 °
Latitude	38° 28' 02.45"N
Longitude	077° 27' 36.51"W
QRA	FM18GL
UTM (WGS84)	18S E285369 N4260537
Elevation	110 m
Base Antenna Height	85 m
Base Antenna Gain	10.0 dBi
Base Antenna Type	omni
Base Antenna Azimuth	0 °
Base Antenna Tilt	0 °
Mobile Antenna Height	2.0 m
Mobile Antenna Gain	2.0 dBi
Tx Power	20.00000 W
Tx Line Loss	6.8 dB
Rx Line Loss	6.8 dB
Rx Threshold	0.500 µV (-113.0 dBm)
Required Reliability	99%
Strong signal margin	10.0 dB
Weak signal field	24.3 dBµV/m
Strong signal field	34.3 dBµV/m
Weak signal covered area	398 km <sup>2</sup>
Strong signal covered area	117 km <sup>2</sup>
Weak signal population reached	53765 pop
Strong signal population reached	29153 pop
Landcover used	Yes
Two rays method used	Yes
User ID	kh7rc
Radio coverage ID	RM83C243770104_5
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