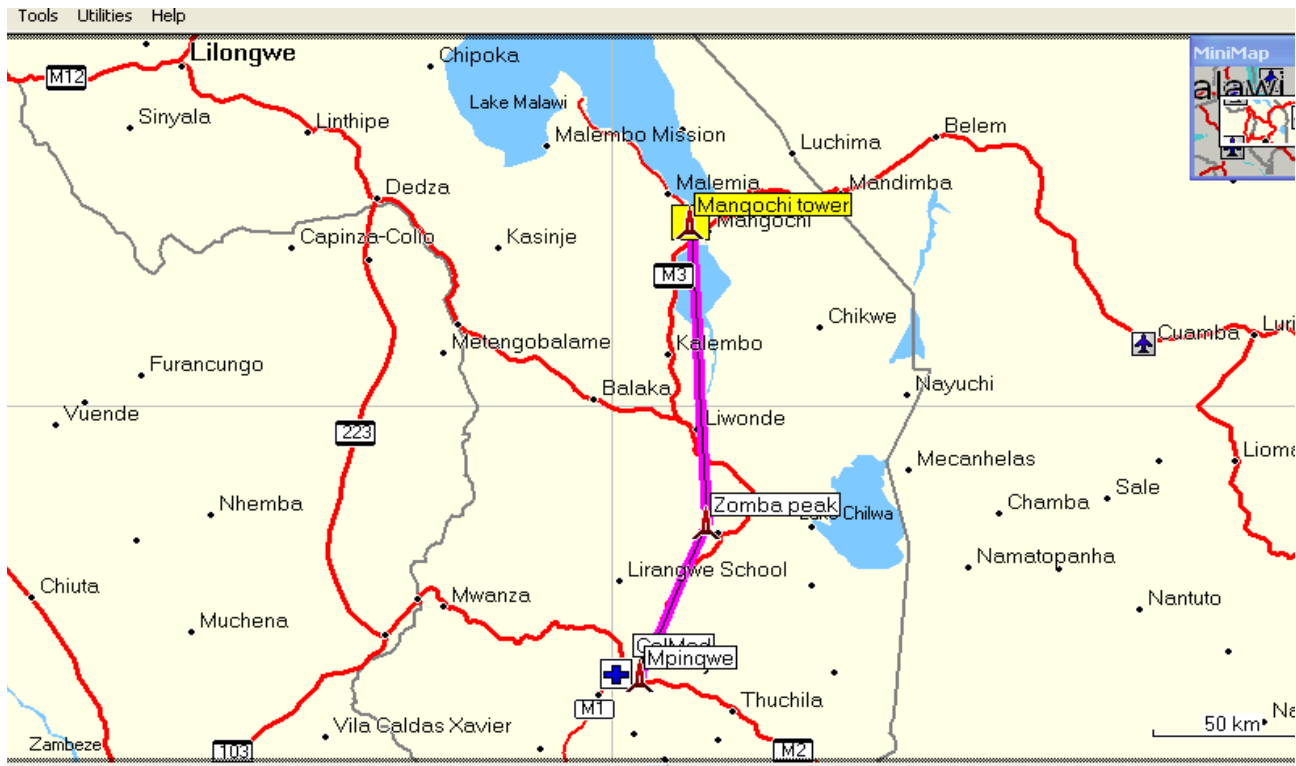


Blantyre - Mangochi Backbone:

General map:

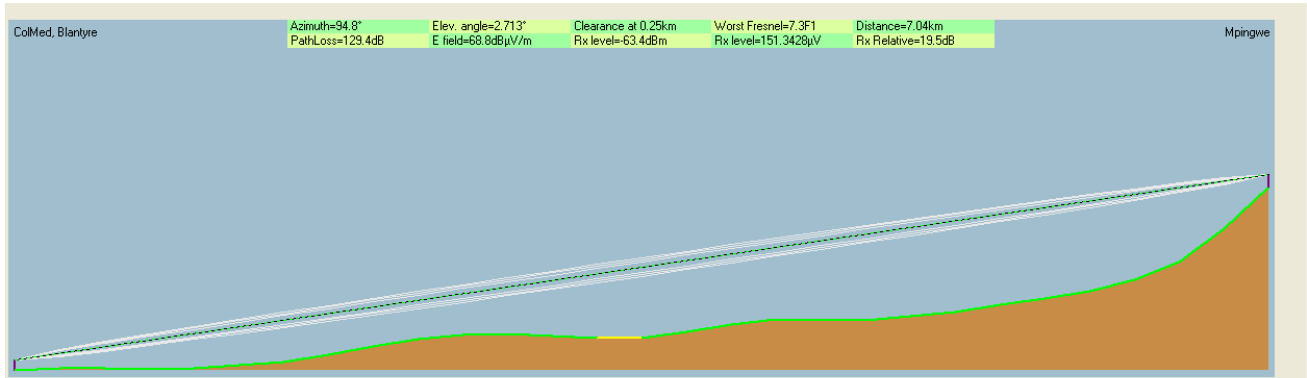


Detail: 162 km total backbone length.

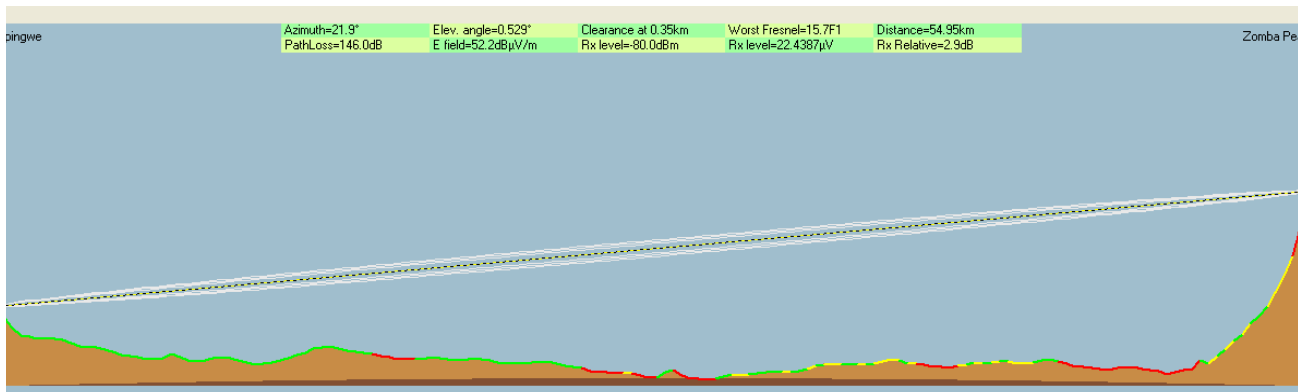


Profiles:

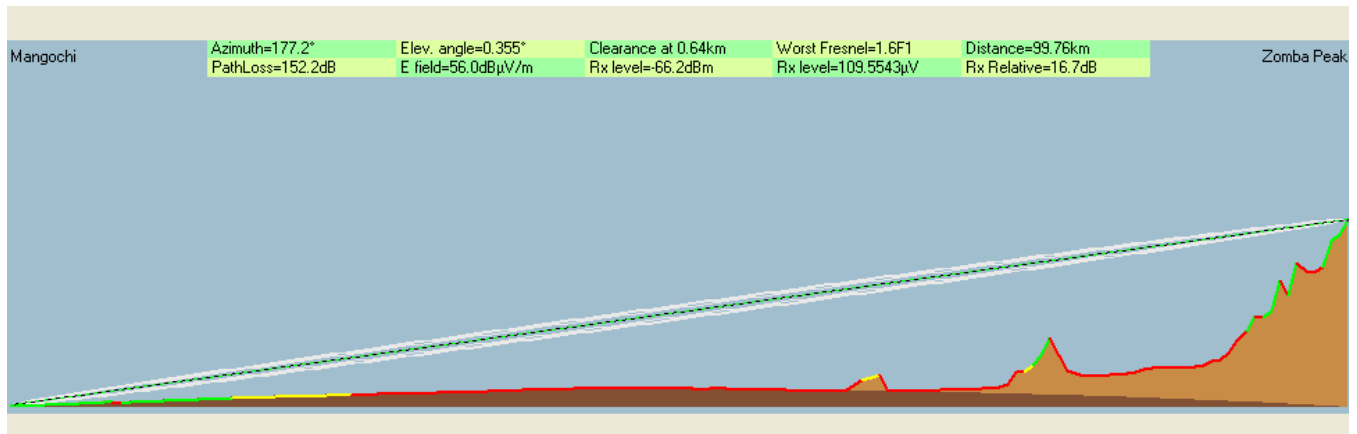
Blantyre-Mpingwe, 7 km



Mpingwe-Zomba Peak, 55 km



Zomba Peak - Mangochi, 100 km, 1.3 F1



Distance between Mangochi and Zomba Peak is 99.8 km (62.0 miles)

True North Azimuth = 177.2°, Magnetic North Azimuth = 183.6°, Elevation angle = 0.3546°

Terrain elevation variation is 1580.2 m

Propagation mode is line-of-sight, minimum clearance 1.6F1 at 0.6km

Average frequency is 5600.000 MHz

Free Space = 147.3 dB, Obstruction = -1.9 dB, Urban = 0.0 dB, Forest = 0.0 dB, Statistics = 6.8 dB

Total propagation loss is 152.2 dB

System gain from Mangochi to Zomba Peak is 168.9 dB

System gain from Zomba Peak to Mangochi is 168.9 dB

Worst reception is 16.7 dB over the required signal to meet

70.000% of situations

Mangochi Hospital - Mangochi Tower, 0.6 km