

Exhibit 14

City Coverage

The city of Copiague, NY is partially outside the 60 dBu F(50,50) contour of the proposed station, with 45.5% of the population and 49.2% of the area in the contour (NED 30 meter data). For this deficiency, the application was rejected.

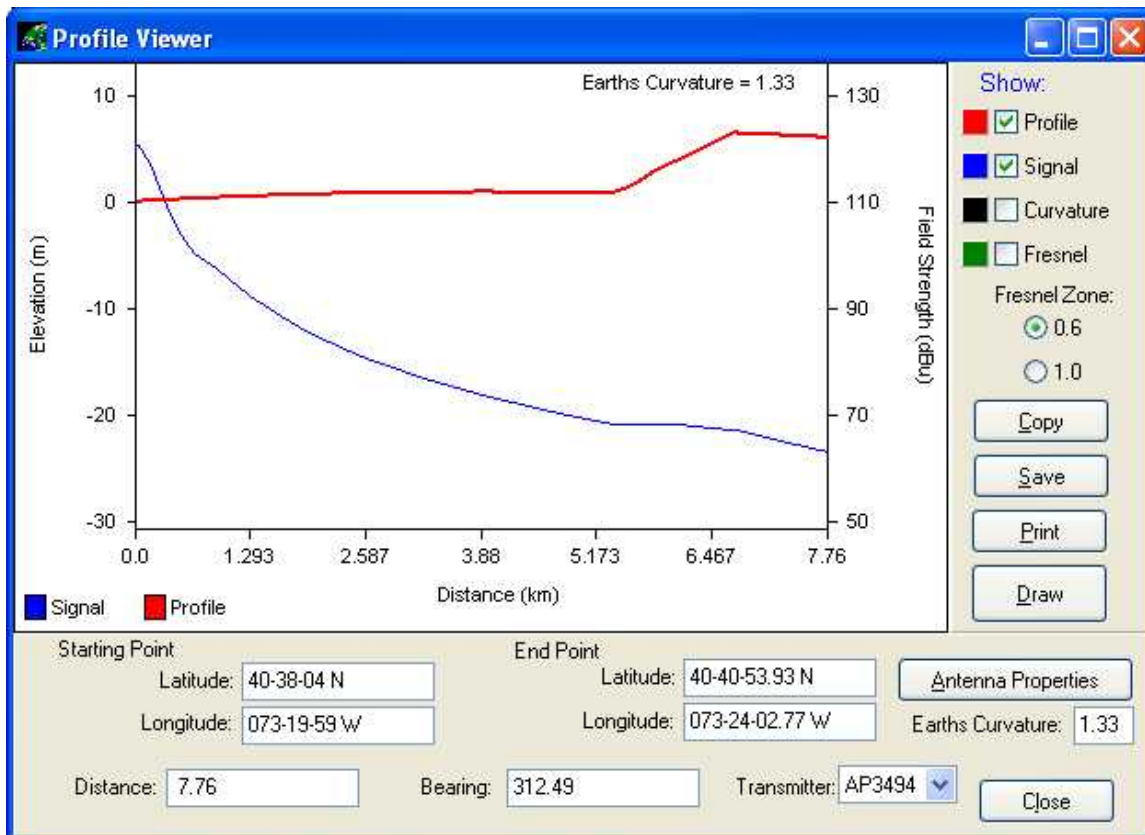
This exhibit constitutes a supplemental showing that demonstrates that the Longley Rice (TechNote 101) calculation based signal strength covers the vast majority of the city area and population.

The facility parameters are unchanged from the original application.

Orientation and Data Used:

The city center of Copiague, NY is at Latitude: 40-40-53.25 N Longitude: 073-24-01.57 W. This is on the south shore of Long Island. The city limits used are from the 2000 US City Boundaries (Tiger) data, as supplied by V-Soft in Probe 3. The presentation was duplicated in ComStudy 2.2 with similar answers, but the display resolution was poor and is not given here.

The transmit site is on an off-shore barrier island. Thus the path from the transmit site to the city is predominantly over open salt water and salt marshes, so it can reasonably be expected to exceed the conductivity and roughness implicit in the F() curves, where these parameters are assumed to be the same throughout the US. The slight curvature in the Profile is earth curvature. Note that the Signal curve ends up well above the 60 dBu level.



Terrain Roughness Calculation:

The Mark Lipp letter of 8/8/2002 from Edward DeLaHunt of the FCC staff specifies that in order to justify use of the L-R calculations for city coverage purposes, the terrain roughness (Δh) must be outside the range of 20 meters to 100 meters. Otherwise the F() curves, which are based on 50 meter terrain roughness, must be employed.

In this specific case, the terrain roughness from the transmit site to the city center is 4.0 meters, which is definitely outside the range, so the L-R method can be employed with confidence.

The screenshot shows the 'Delta h' software window. It has a blue title bar with the text 'Delta h' and a red 'X' close button. The window is divided into several sections. The top left section is labeled 'Transmitter -- AP3494' and contains input fields for Latitude (40-38-04 N), Longitude (073-19-59 W), and Frequency (89.7 MHz). Below these are buttons for 'Load Transmitter From Study', 'FCC DB', and checkboxes for 'To Ref' and 'From Ref'. The top right section is labeled 'Options' and contains input fields for Azimuth (312.5 deg), Start Dist (0 km), Stop Distance (7.76 km), and Dist Increment (0.1 km). Below these is a 'Terrain' dropdown menu set to 'NED 30 Meter Terrain'. The bottom section is labeled 'Delta h' and contains calculated values: Delta H = 4.0 m, Correction Factor = 1.744 dB, and Average Terrain = 1.35 m. A red 'X' Close button is in the bottom right corner.

Field	Value
Transmitter	AP3494
Latitude	40-38-04 N
Longitude	073-19-59 W
Frequency	89.7 MHz
Azimuth	312.5 deg
Start Dist	0 km
Stop Distance	7.76 km
Dist Increment	0.1 km
Terrain	NED 30 Meter Terrain
Delta H	4.0 m
Correction Factor	1.744 dB
Average Terrain	1.35 m

This is no surprise, since the path is largely over water, and there is no terrain to be rough.

Point Report for the City of Copiague, NY

Point Information Report

Latitude: 40-40-53.25 N
Longitude: 073-24-01.57 W

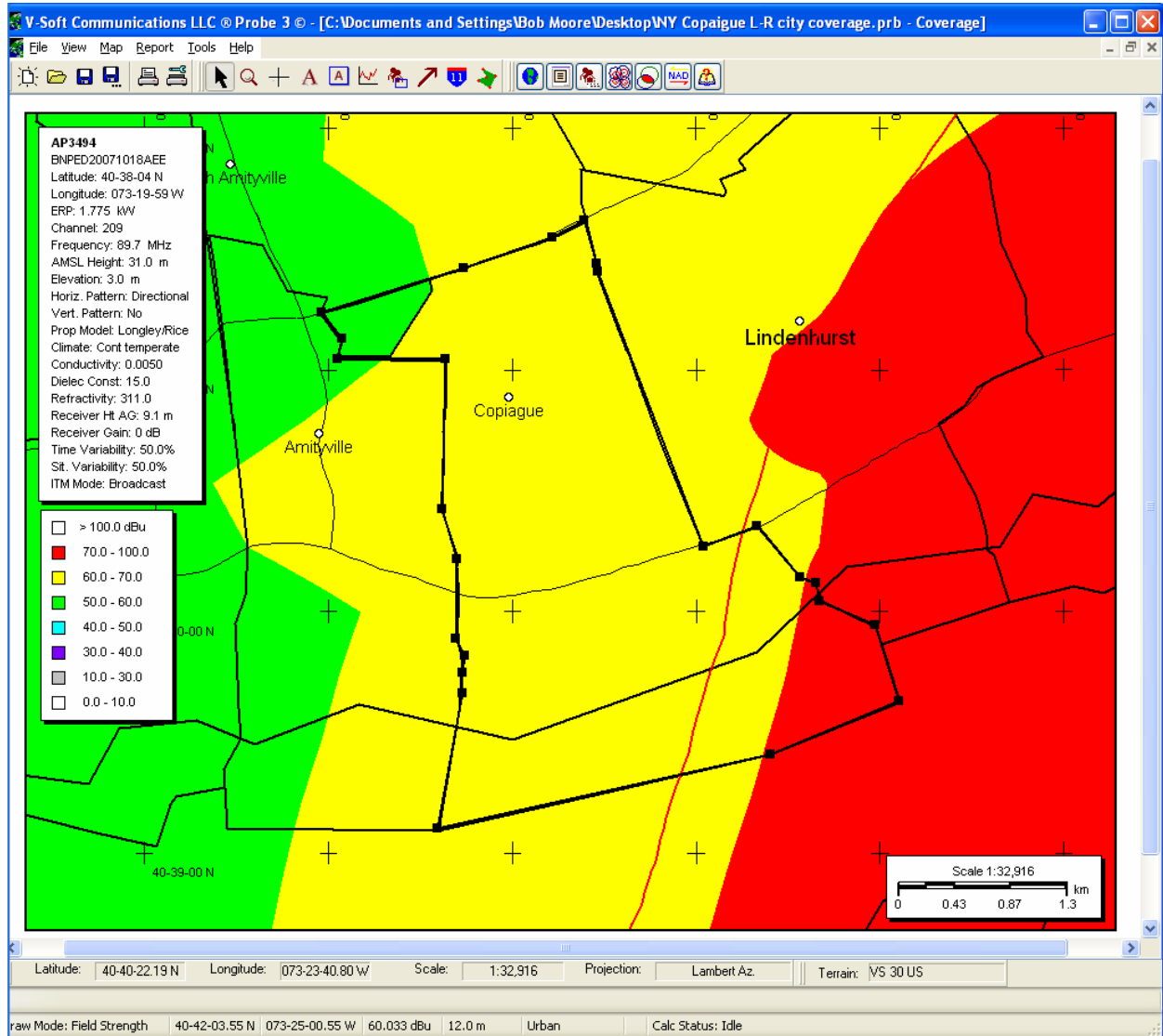
Signal Strength: **63.059 dBu**
Elevation: 6.0 m

Distance From Transmitter: 7.728 km
Azimuth From Transmitter: 312.52 degrees

Call Letters: AP3494
File Number: BNPED20071018AEE
Latitude: 40-38-04 N
Longitude: 073-19-59 W
ERP: 1.775 kW
Channel: 209
Frequency: 89.7 MHz
AMSL Height: 31.0 m
Elevation: 3.0 m
Horiz. Antenna Pattern: Directional
Vert. Elevation Pattern: No

Longley Rice Results

The analysis was thus performed for the area within the city limits.



The marked polygon shown here is the city limits of the city of Copiaque. As the color key shows, the only area within the city limits that does not have a signal over 60 dBu is the area in green in the upper left corner. That polygon gives the following data:

Polygon Population Report

Population Database: 2000 US Census (SF1)

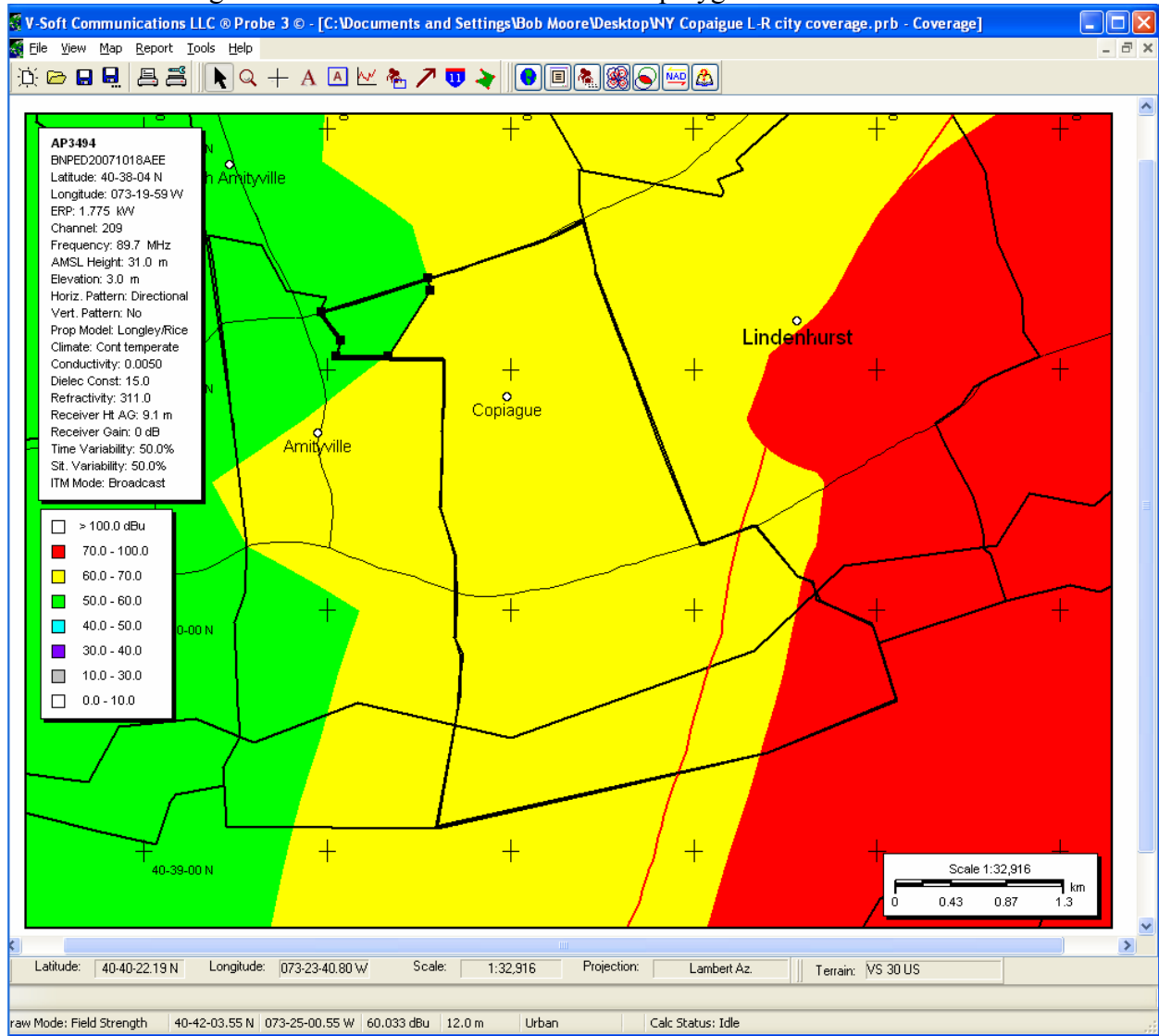
Total Population: 21,757

Housing Units: 7,375

Polygon Area: 9.47 sq. km

	Housing Units	Population
New York		
Suffolk County		
Total	522,323	1,419,369
Polygon	7,375	21,757

Then the green area was marked with a second polygon:



The polygon data for the area which is not served with a 60 dBu contour is:

Polygon Population Report

Population Database: 2000 US Census (SF1)

Total Population: 562

Housing Units: 147

Polygon Area: 0.28 sq. km

	Housing Units	Population
New York		
Suffolk County		
Total	522,323	1,419,369
Polygon	147	562

Thus the resulting population and area in the area served are:

97.42% $(=(21,757-562)/21,757)$ population

97.04% $(=(9.47-0.28)/9.47)$ km² area

Which are much greater than the required value of 50%.