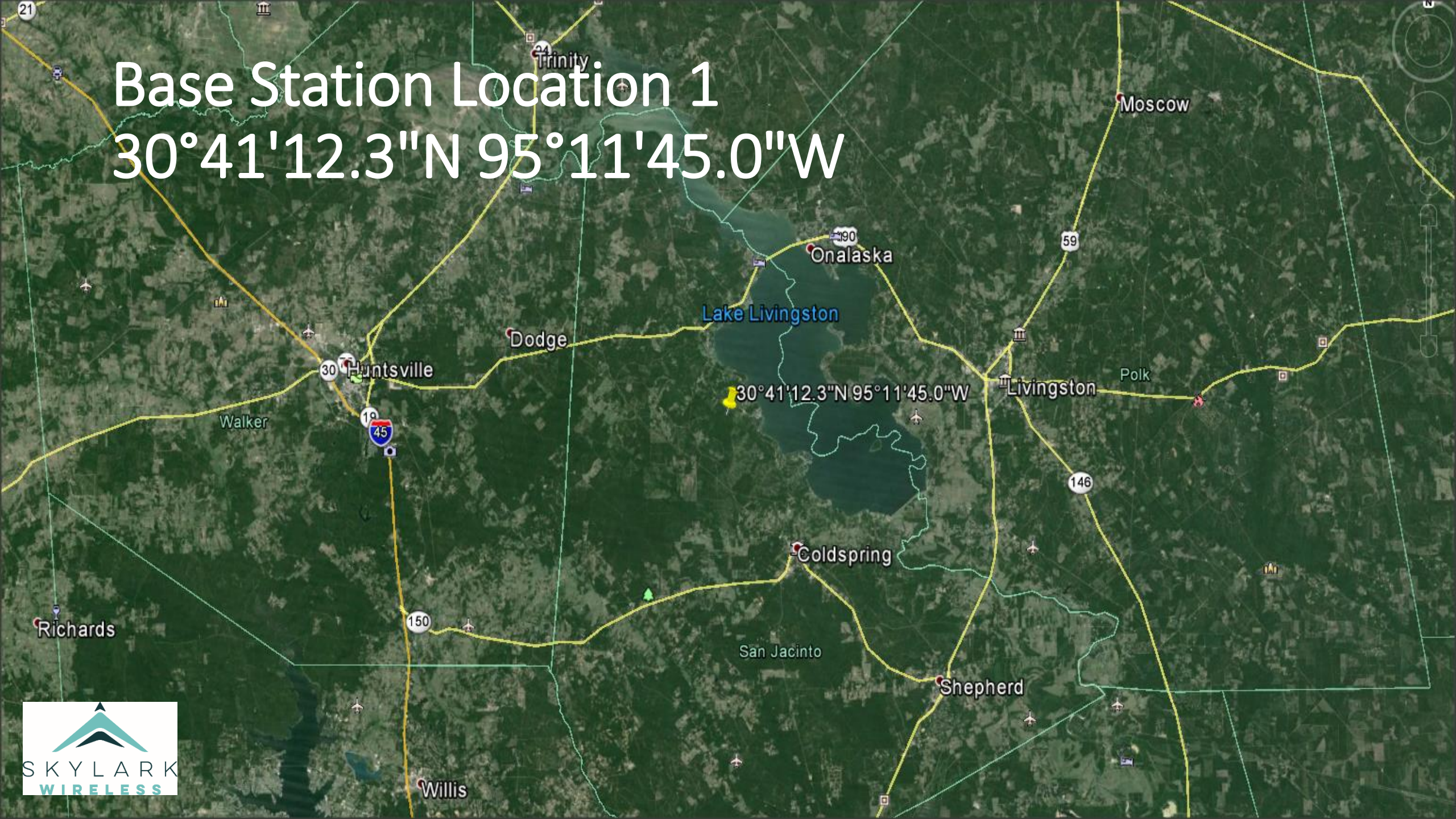
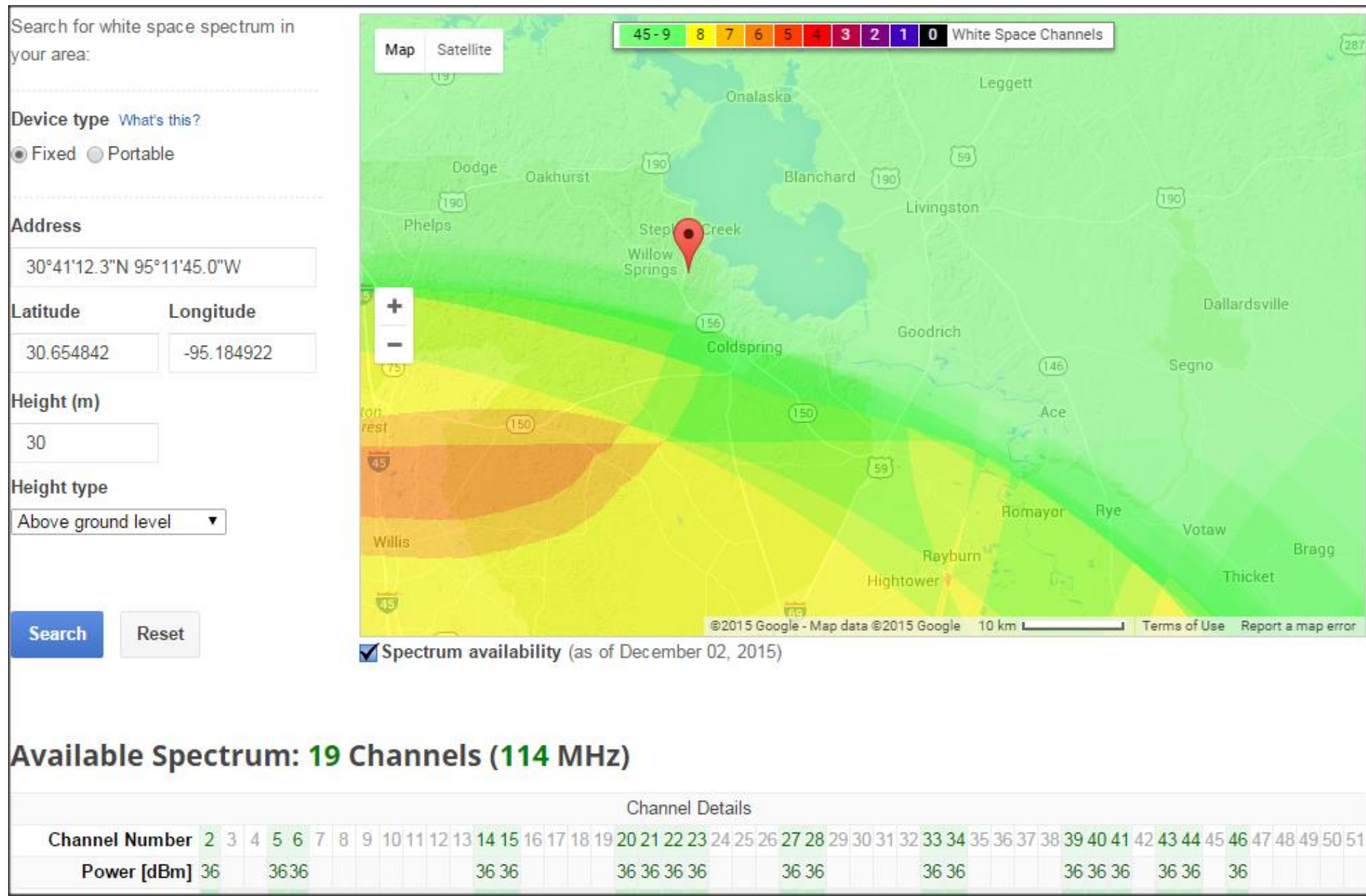


Base Station Location 1

$30^{\circ}41'12.3''\text{N}$ $95^{\circ}11'45.0''\text{W}$

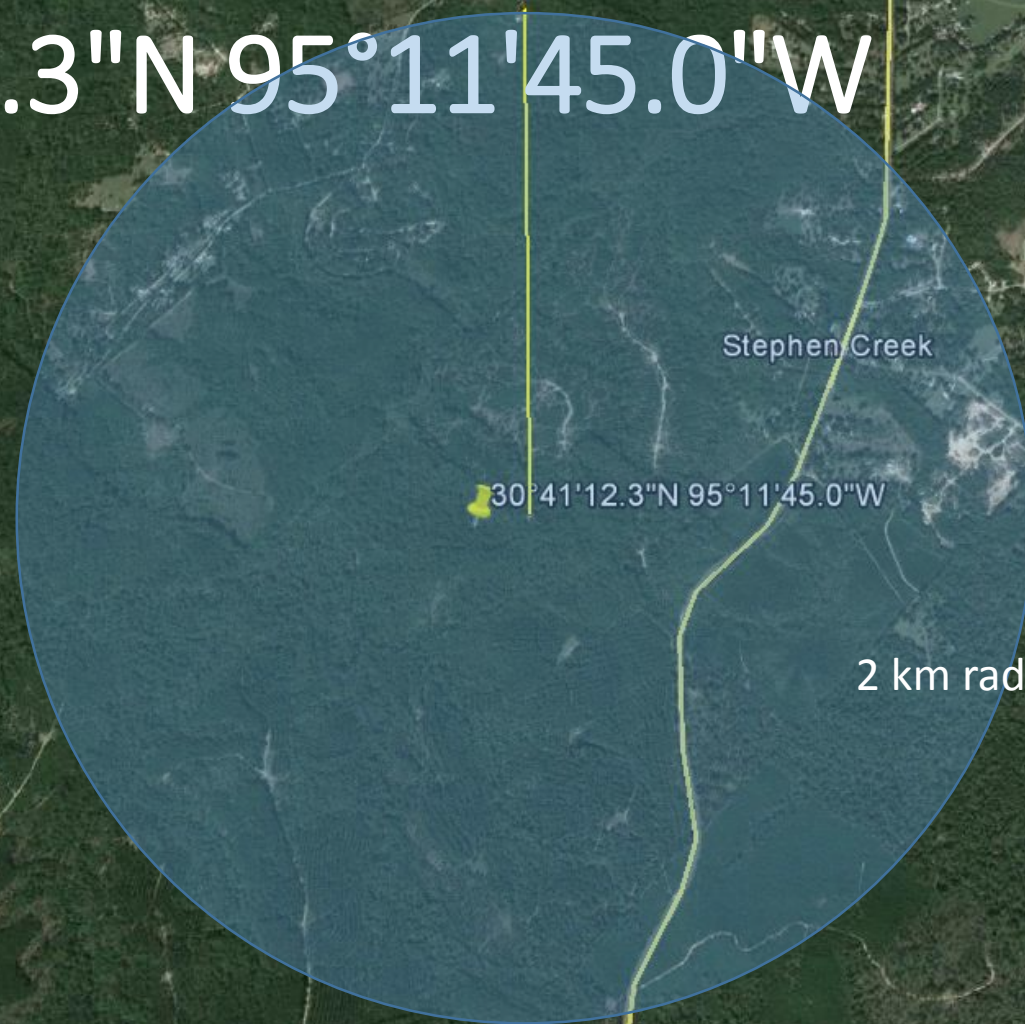


Google Spectrum Database Availability



Mobile Location 1

$30^{\circ}41'12.3''\text{N}$ $95^{\circ}11'45.0''\text{W}$



Stephen Creek

$30^{\circ}41'12.3''\text{N}$ $95^{\circ}11'45.0''\text{W}$

2 km radius for mobile location

Heavily wooded rural area

Antenna Diagram: Base Station Array

Skylark Wireless WURC UHF
Radio Module (experimental)

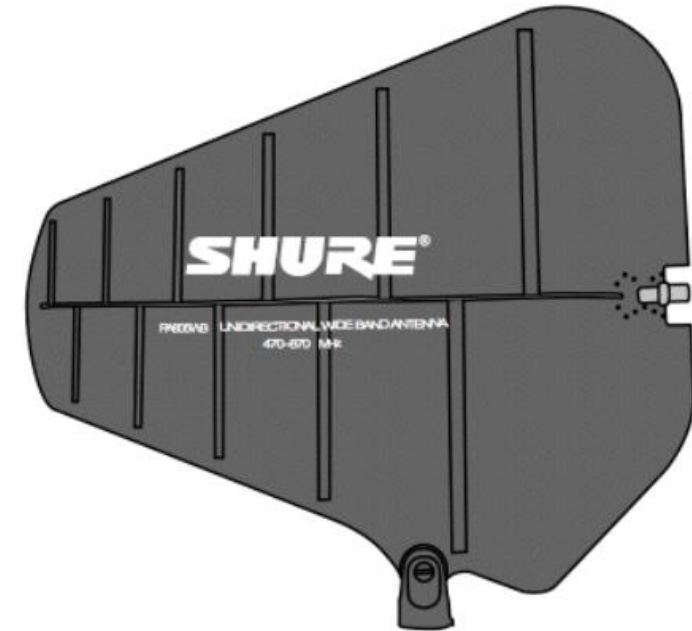
August DTA240 3dBi
Omnidirectional Base Station
Antennas

$\frac{1}{2}$ -wavelength linear array,
up to 16x elements



Antenna Diagram: Mobile Station

7 dBi PA805WB Directional
5 – 30 degree uptilt to base station.



SHURE PA805WB DIRECTIONAL ANTENNA

The Shure PA805WB is a directional antenna for use with Shure PSM Wireless Systems. It features a log periodic dipole array and operates in the 470 to 870 MHz range. When compared to an omnidirectional 1/2-wave antenna, the cardioid pattern provided by the PA805WB offers enhanced coverage, improved range and reduced multipath interference conditions.