
RF Toolbox

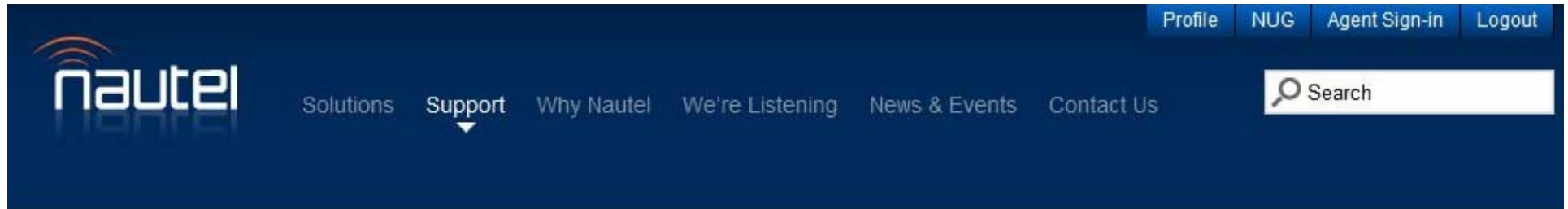
FM Propagation Tool

A simple tool for FM coverage prediction

- “How far will a 1kW go?”
- How much power for a 50 mile radius?
- These questions are at a initial stage.
- Radio Mobile: VHF/UHF analysis
- Longley-Rice model
- SRTM terrain data
- 1/3rd arcsec in the US, 1 arcsec in Canada, 3 arcsec elsewhere, up to +/- 60° latitude
- Limited configurability for less risk of inaccurate results



Logon to your NUG account, then follow the links to the RF Coverage Tool











The navigation bar features the Nautel logo on the left. To its right are links for Solutions, Support (with a dropdown arrow), Why Nautel, We're Listening, News & Events, and Contact Us. On the far right, there are buttons for Profile, NUG, Agent Sign-in, and Logout, along with a search box.

Radio Coverage Tool




A row of five icons with corresponding text: a mobile phone icon for 'Talk to Sales GET A QUOTE', a document icon for 'Sign up for Our Newsletter', a shopping cart icon for 'Visit our eStore', and a share icon for 'Send to a Friend'.

Welcome ckelly@nautel.com

-  My Settings
-  New Transmitter Site
-  My Transmitter Sites
-  New Point-to-Point Link
-  My Point-to-Point Links
-  New Coverage Plot
-  My Coverage Plots
-  Multiple Coverage Plots

Click “New Transmitter Site” & fill out the info



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Search

Radio Coverage Tool



Talk to Sales
GET A QUOTE



Sign up for
Our Newsletter



Visit our
eStore



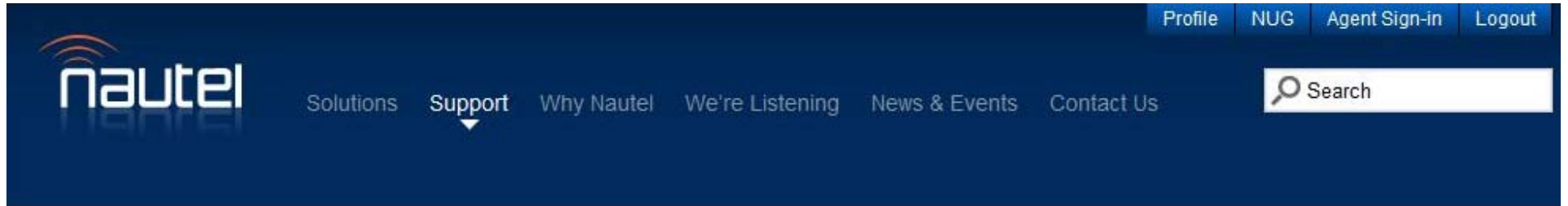
Send to
a Friend

New Coverage Plot

Description	<input type="text" value="Radio coverage plot 1"/>
Transmitter Site	<input type="text" value="My house"/>
Frequency (MHz)	<input type="text" value="103"/>
Antenna Center height above ground (m)	<input type="text" value="91"/>
Tx system	<input type="text" value="1 KW FM w/ 4 bay antenna"/>
Rx system	<input type="text" value="FM Car Receiver"/>
Maximum range (km)	<input type="text" value="250"/>
Opacity (%)	<input type="text" value="40"/>

Submit

Click “My Coverage Plots”

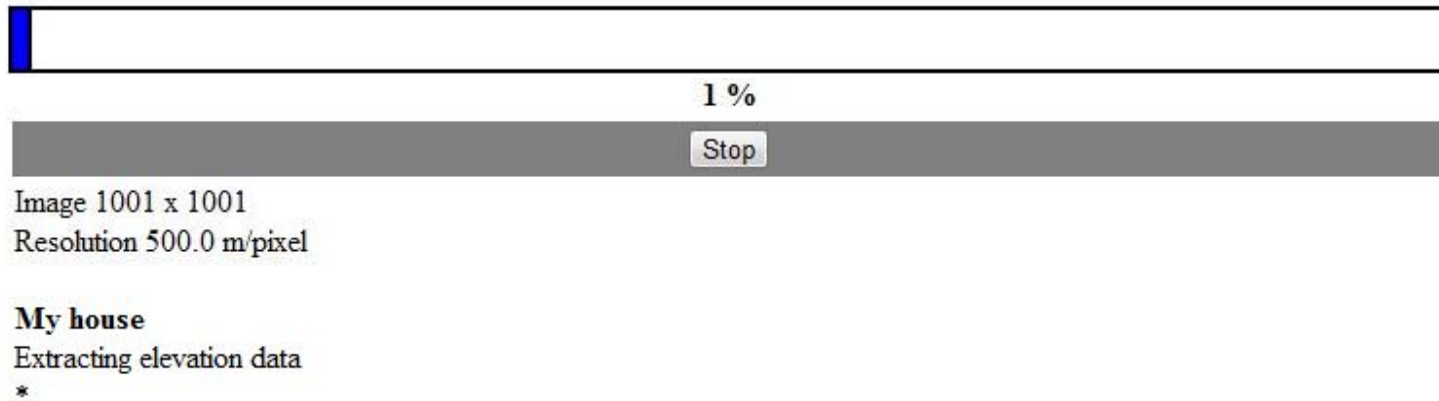


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Radio Coverage Tool

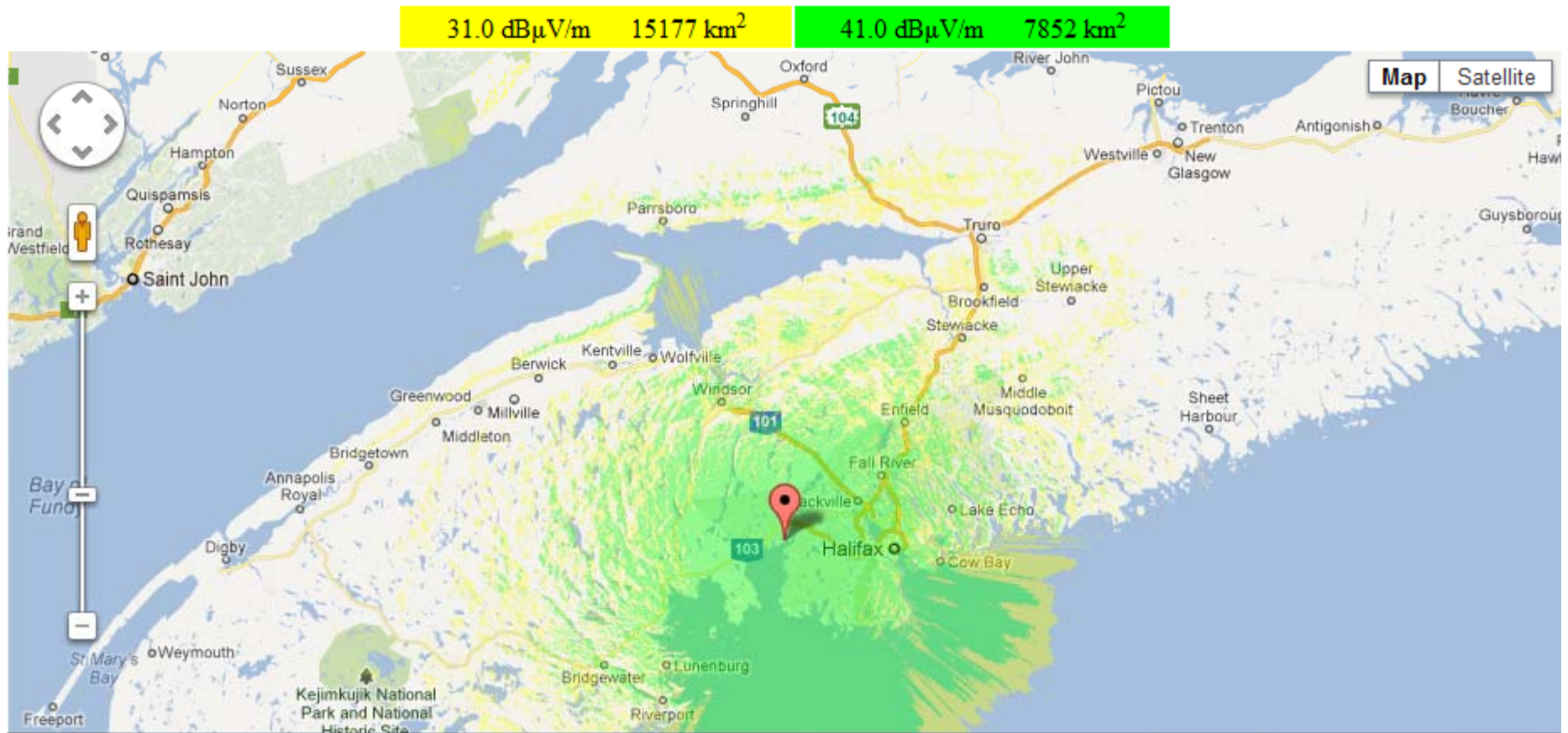


A row of four icons with corresponding text: a mobile phone icon for "Talk to Sales GET A QUOTE", a document icon for "Sign up for Our Newsletter", a shopping cart icon for "Visit our eStore", and a share icon for "Send to a Friend".



A progress bar showing 1% completion. Below the bar is a "Stop" button. Technical details include "Image 1001 x 1001" and "Resolution 500.0 m/pixel". The status is "My house" with "Extracting elevation data" and a small asterisk below it.

Output plot may be downloaded



Nautel's *free* RF Propagation Tool

- User friendly – but reasonably accurate
- Allows all sites and configurations to be stored in the account
- Provides simple map with standard coverage levels
- Work in progress – your feedback welcome
- Does not replace the services of an qualified broadcast consultant

Thank You

