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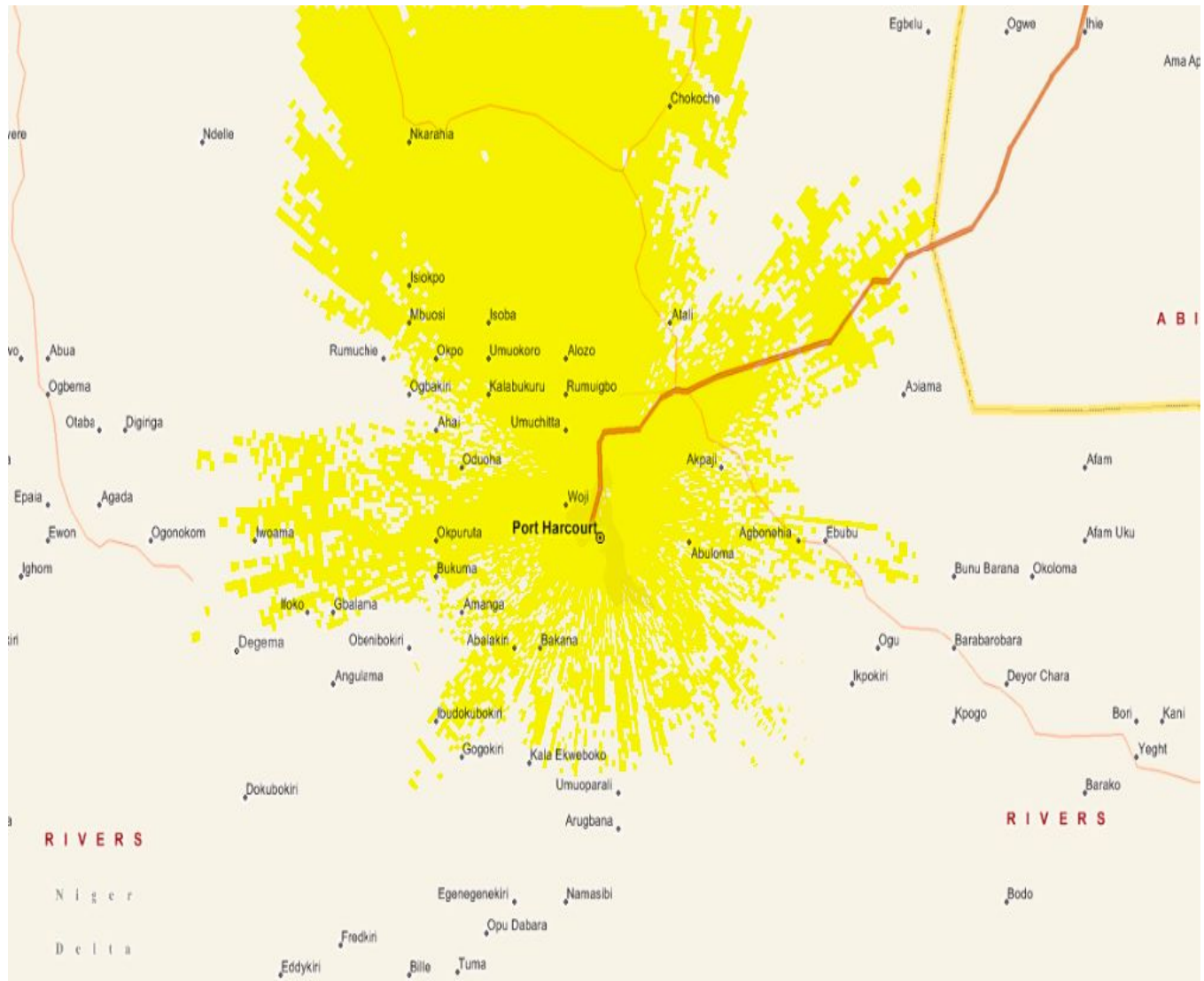


Survey/Link Estimation Tools

- Topographic Profile
- Geocoding
- Path Analysis
-
- Link Estimator

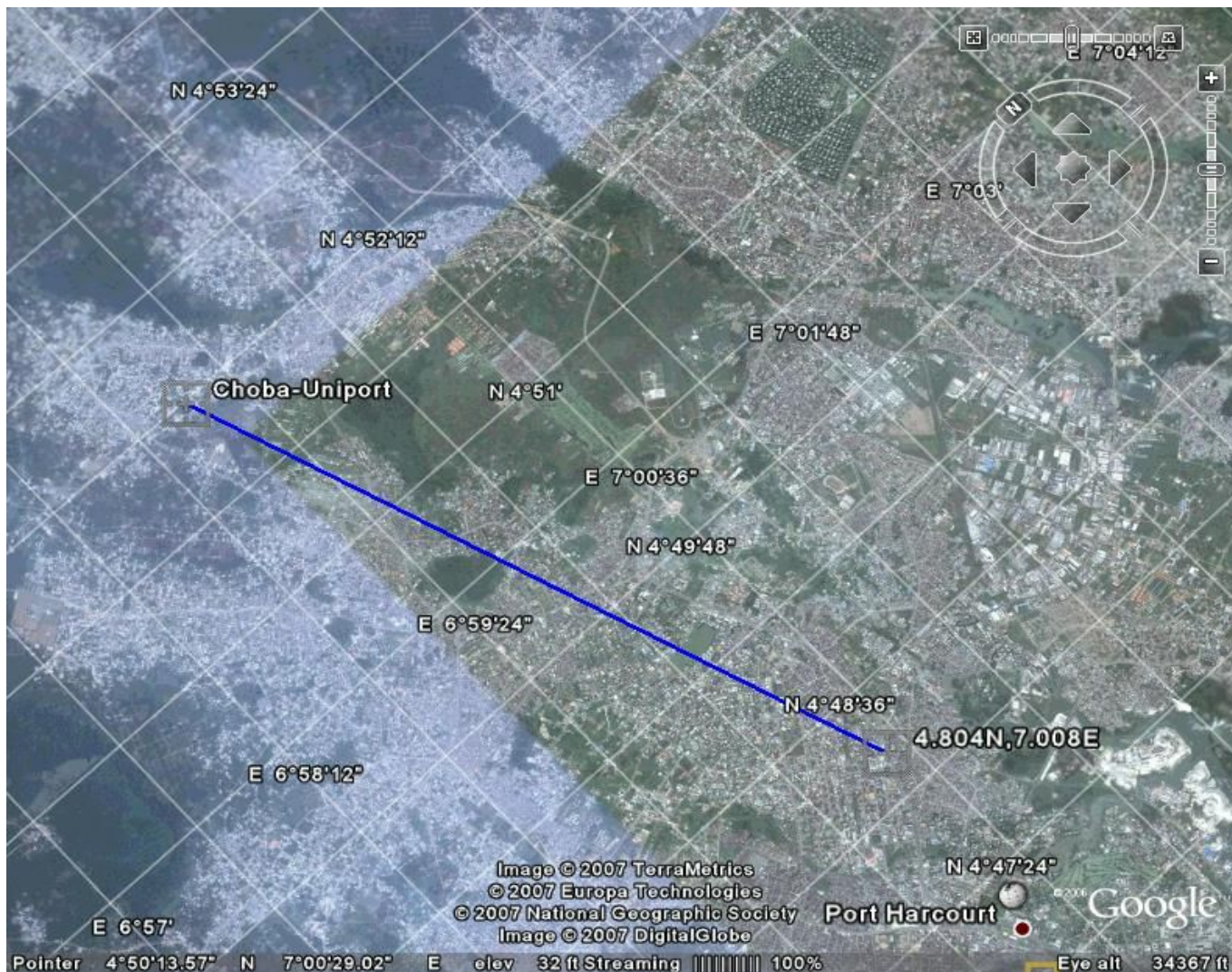
Topographic Profile

- Mapquest
- Google Map
- Virtual Earth



- Google Earth
- Expert GPS
- Radio Mobile

*Results are in WGS84
DATUM



- Radio Mobile

- Pathloss

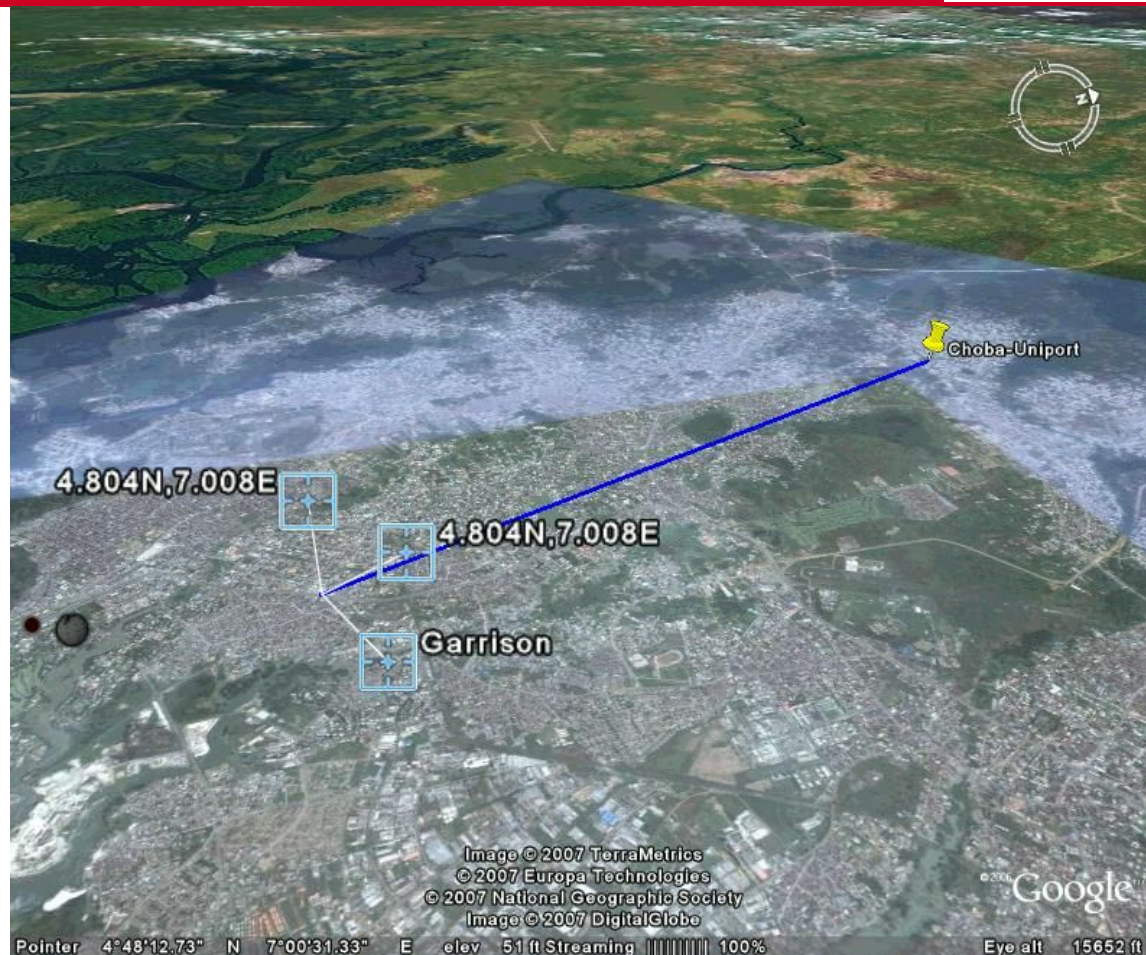
- Micropath

- Diagram network over aerial photos and Topo maps.

- Export images for poster printing

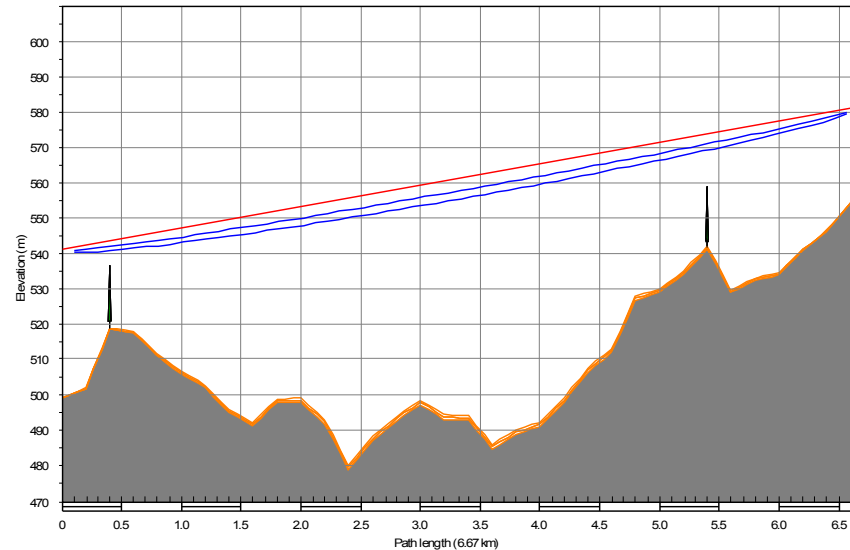
- Convert from dd.dddd to dd mm' ss"

- GPS waypoint management tool

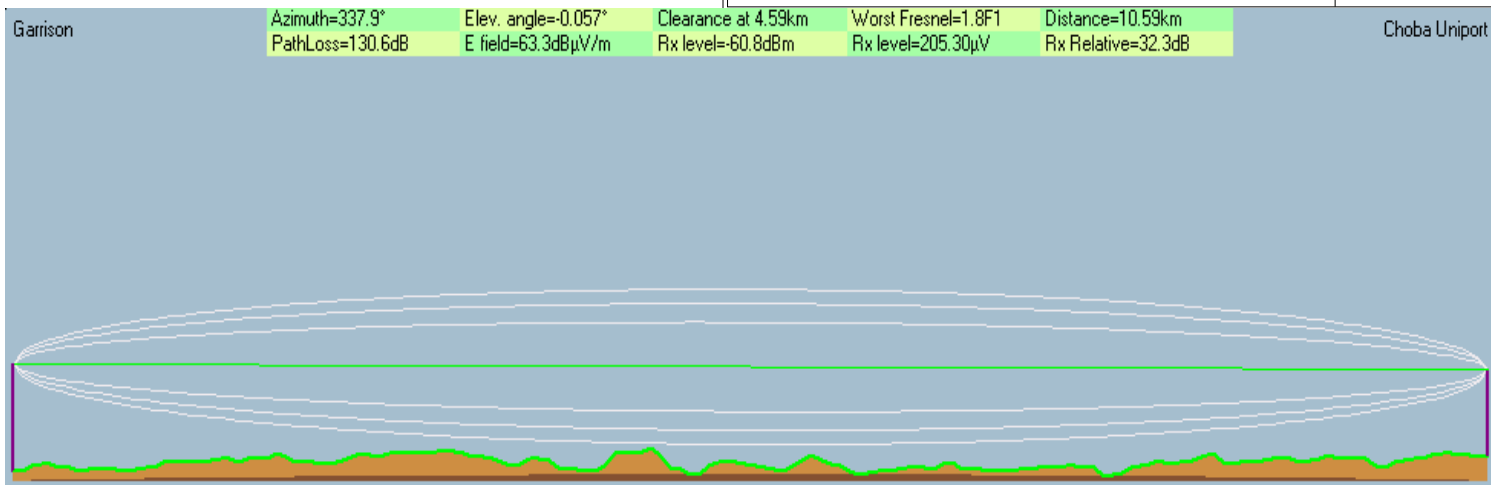


Path Analysis - Path Profile

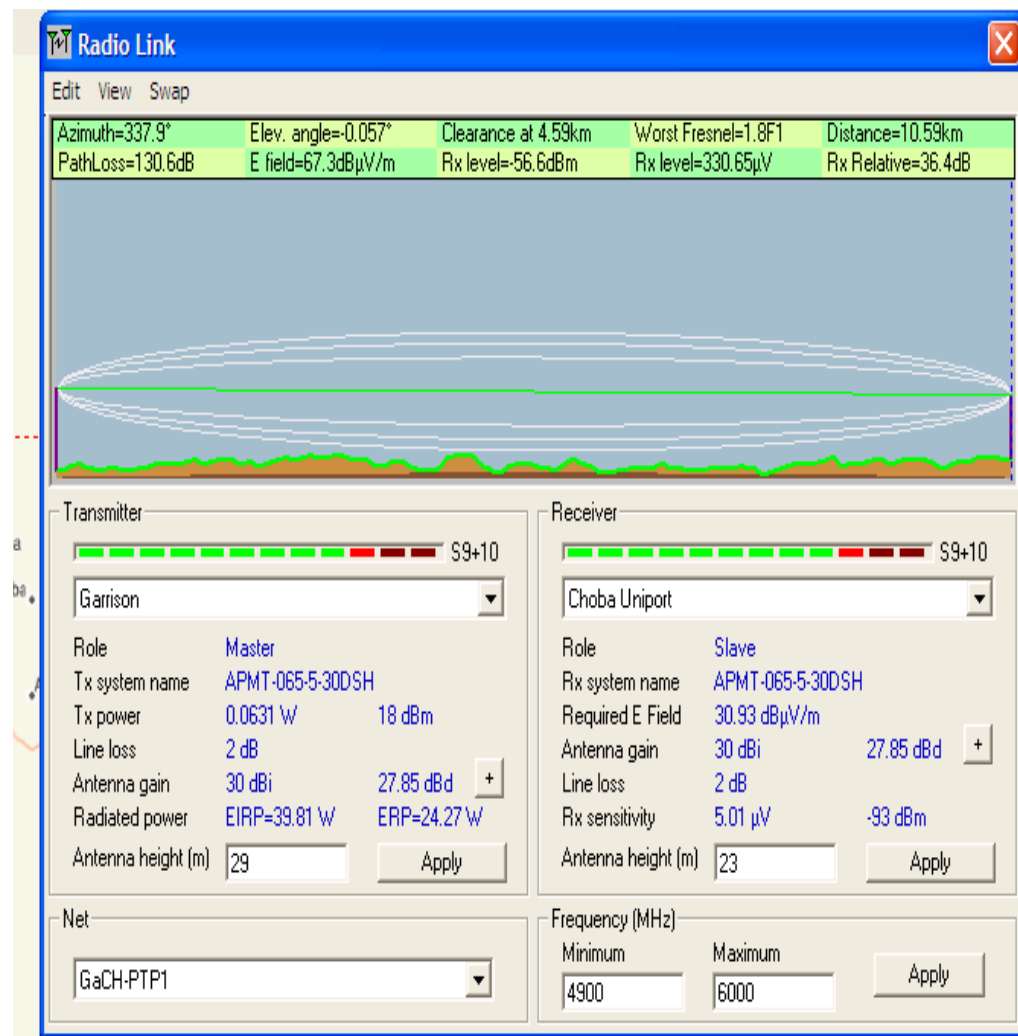
- Radio Mobile
- Pathloss
- Micropath



SITE B Latitude 09 05 23.62 N Longitude 007 29 14.40 E Azimuth 140.56° Elevation 499 mASL Antenna CL 42.0 mAGL	Frequency (MHz) = 15000.0 K = 1.33, 0.66, 1.33 %F1 = 100.00, 60.00 TCF ENGINEERING LTD	SITE C Latitude 09 02 35.82 N Longitude 007 31 33.18 E Azimuth 320.56° Elevation 556 mASL Antenna CL 25.0 mAGL
Dec 18 06		



- Pathloss
- Radio Mobile
- Mikrotik Link Possibility (still in testing stage)



Steps to Complete a Link Calculation

1. Geocode street addressed to GPS coordinates
2. Layout network in Expert GPS
4. View aerial photos of the path look for obstructions or problem spots
6. Convert coordinates from dd.dddd to dd mm' ss"
8. Key into Path-profiling software and generate profile
10. Add obstructions to the path
12. Import path profile into the Link Estimator for final analysis.