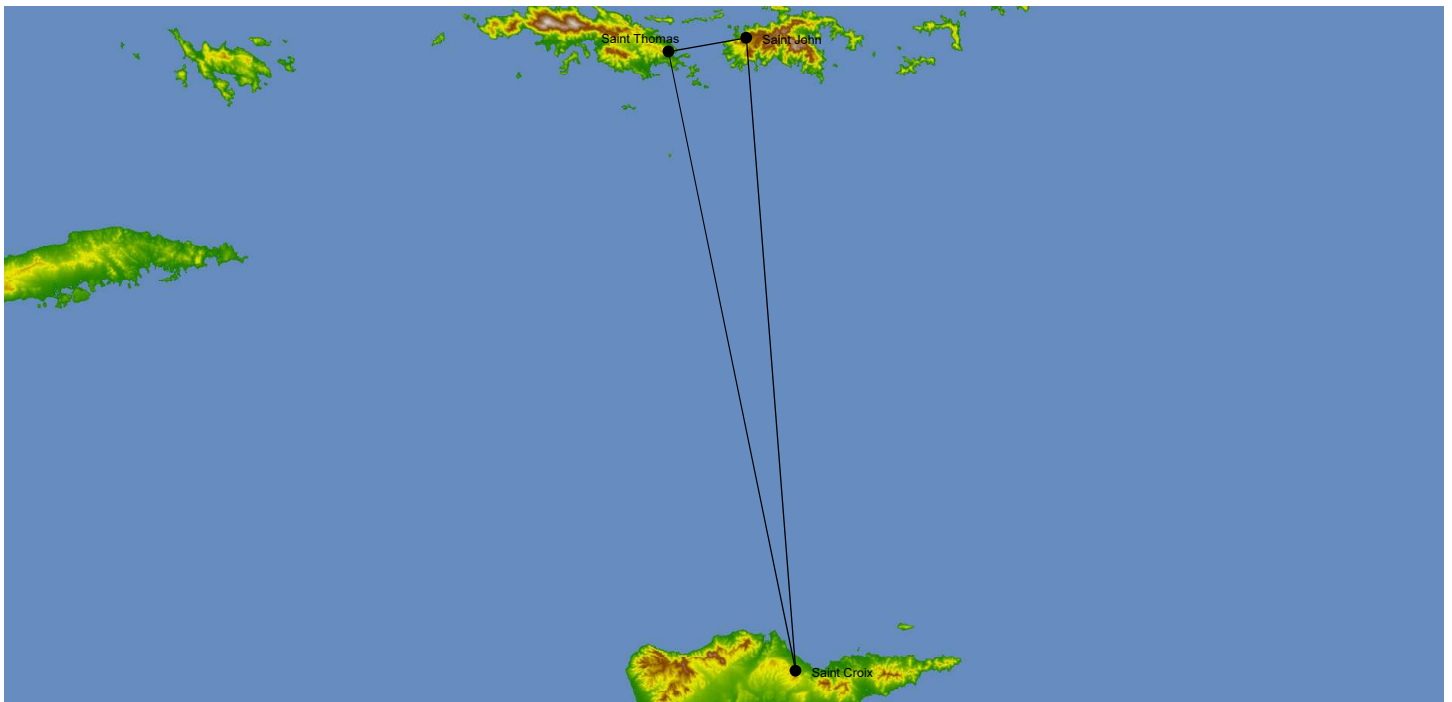


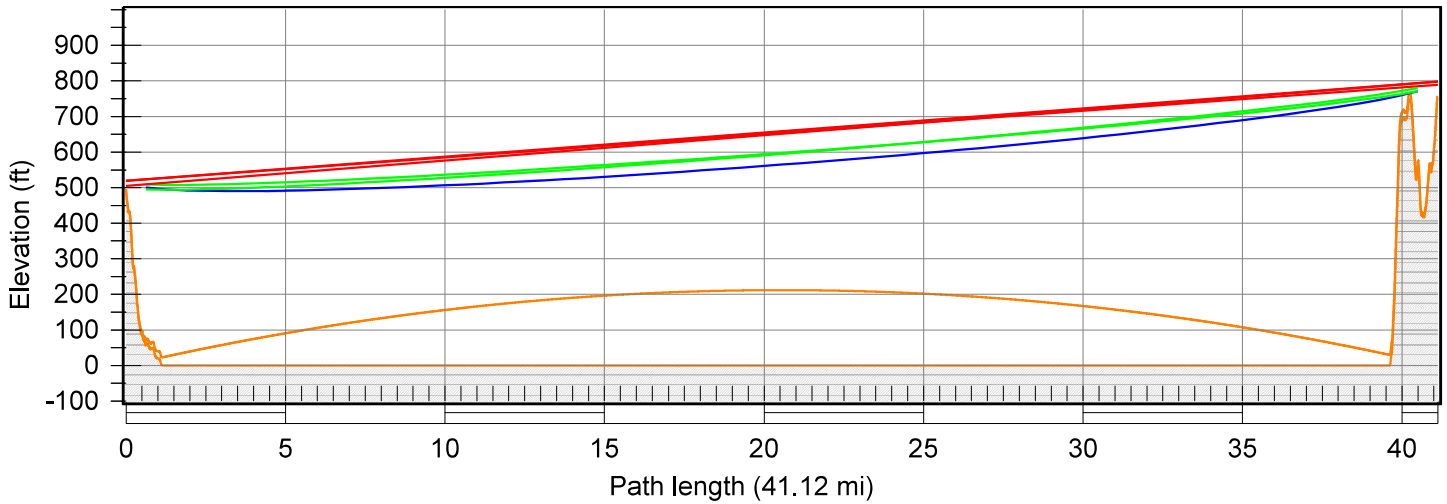
## Network Topology



## Data Sources

Site name	Latitude	Longitude
Saint Croix	17 44 43.63 N	064 43 37.39 W
Saint John	18 20 29.59 N	064 46 32.05 W
Saint Thomas	18 19 43.00 N	064 51 09.10 W

## St Croix to St John - Elevation Profile - L6GHz 2+2 SD configuration



Saint Croix	
Latitude	17 44 43.63 N
Longitude	064 43 37.39 W
Azimuth	355.56°
Elevation	494 ft ASL
Antenna CL	24.5, 10.0 ft AGL

Frequency (MHz) = 6086.0
K = 1.33
%F1 = 100.00, 60.00

Saint John	
Latitude	18 20 29.59 N
Longitude	064 46 32.05 W
Azimuth	175.54°
Elevation	755 ft ASL
Antenna CL	42.6, 33.3 ft AGL

### Design Notes

- Radio: AGS20L in Split configuration with ASNK SC in 2+2/SD configuration
- Polarization: Vertical and Horizontal for maximum capacity
- Antenna Heights / Size: Optimized for maximum clearance / 8 ft
- Frequency and Emission Designator: 56 MHz
- Maximum Link Capacity: 1085.6 Mbps unfaded with header compression

### Link Capacity Summary (one way)

Availability	Vertical Capacity (Mbps)	Horizontal Capacity (Mbps)	Link Capacity 2+2 (Mbps)	Max Link Capacity with Header Compression
Unfaded	472	472	944	1085.6
99.9	359	359	718	825.7
99.95	311	311	622	715.3
<b>99.99</b>	<b>262</b>	<b>262</b>	<b>524</b>	<b>602.6</b>
99.995	207	207	414	476.1
99.999	166	166	332	381.8