

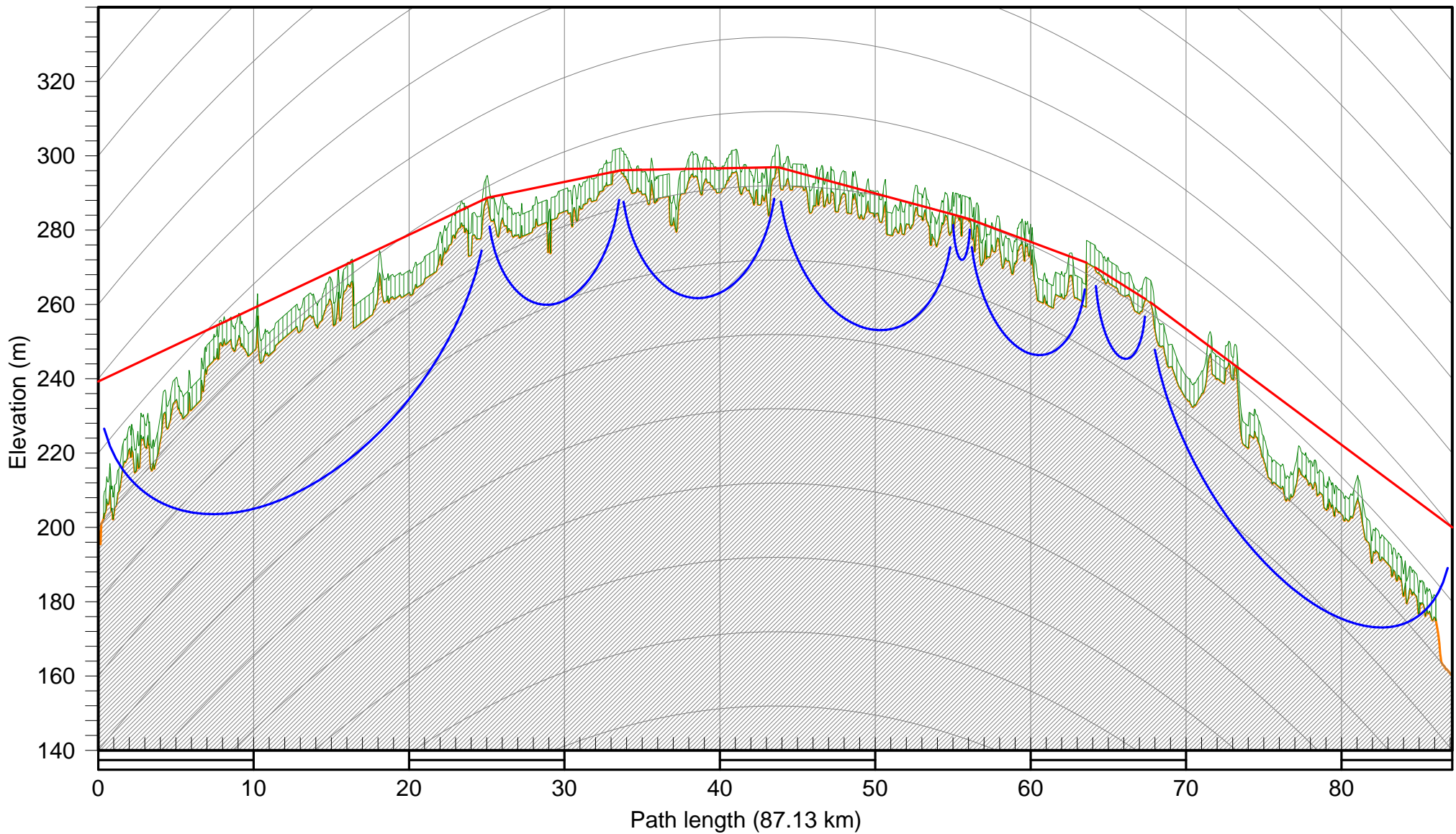
**Jackfish**  
 Latitude 62 28 13.50 N  
 Longitude 114 22 35.70 W  
 Azimuth 295.45°  
 Elevation 199 m ASL  
 Antenna CL 40.0 m AGL

Frequency (MHz) = 222.0  
 K = 1.33  
 %F1 = 60.00

Yellowknife Amateur Radio Society

**NTPC Rae**  
 Latitude 62 47 52.57 N  
 Longitude 115 55 06.76 W  
 Azimuth 114.08°  
 Elevation 160 m ASL  
 Antenna CL 40.0 m AGL

Sep 08 09



**Jackfish**  
 Latitude 62 28 13.50 N  
 Longitude 114 22 35.70 W  
 Azimuth 295.45°  
 Elevation 199 m ASL  
 Antenna CL 40.0 m AGL

Frequency (MHz) = 222.0  
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**NTPC Rae**  
 Latitude 62 47 52.57 N  
 Longitude 115 55 06.76 W  
 Azimuth 114.08°  
 Elevation 160 m ASL  
 Antenna CL 40.0 m AGL

		Sep 08 09	

	Jackfish	NTPC Rae
Elevation (m)	199.26	160.00
Latitude	62 28 13.50 N	62 47 52.57 N
Longitude	114 22 35.70 W	115 55 06.76 W
True azimuth (°)	295.45	114.08
Vertical angle (°)	-0.18	-0.12
Antenna model	SRL210C4*4*220DT4	SRL206
Code	210c4d4l	20601m
Antenna height (m)	40.00	40.00
Antenna gain (dBi)	10.15	11.65
(dBd)	8.00	9.50
Orientation Loss (dB)	0.57	0.02
TX line type	LDF5-50 VHF	LDF4-50 VHF
TX line length (m)	43.00	50.00
TX line unit loss (dB /100 m)	1.50	3.25
TX line loss (dB)	0.65	1.62
Connector loss (dB)	0.50	0.50
Duplexer loss (dB)	0.00	0.00
Frequency (MHz)	222.00	
Polarization	Vertical	
Path length (km)	87.13	
Free space loss (dB)	118.20	
Diffraction loss (dB)	35.45	
Net path loss (dB)	135.71	135.71
Radio model	Link	Link
TX power (watts)	20.00	20.00
(dBm)	43.01	43.01
Effective Radiated Power (Watts)	96.95	109.28
(dBm)	49.87	50.39
RX Sensitivity (µv)	0.71	0.71
(dBm)	-110.00	-110.00
RX Signal (µv)	5.18	5.18
(dBm)	-92.70	-92.70
RX Field Strength (µv/m)	14.18	12.54
Fade Margin (dB)	17.30	17.30
Rayleigh Fade Probability (%)	1.84	1.84
Log Normal Fade Probability (%)	0.20	0.20

Tue, Sep 08 2009  
Jackfish-NTPC Rae.pl4  
Location - Woodland (sigma = 6 dB)

H1=40.0 m, H2=40.0 m, F=222.0 MHz, V

