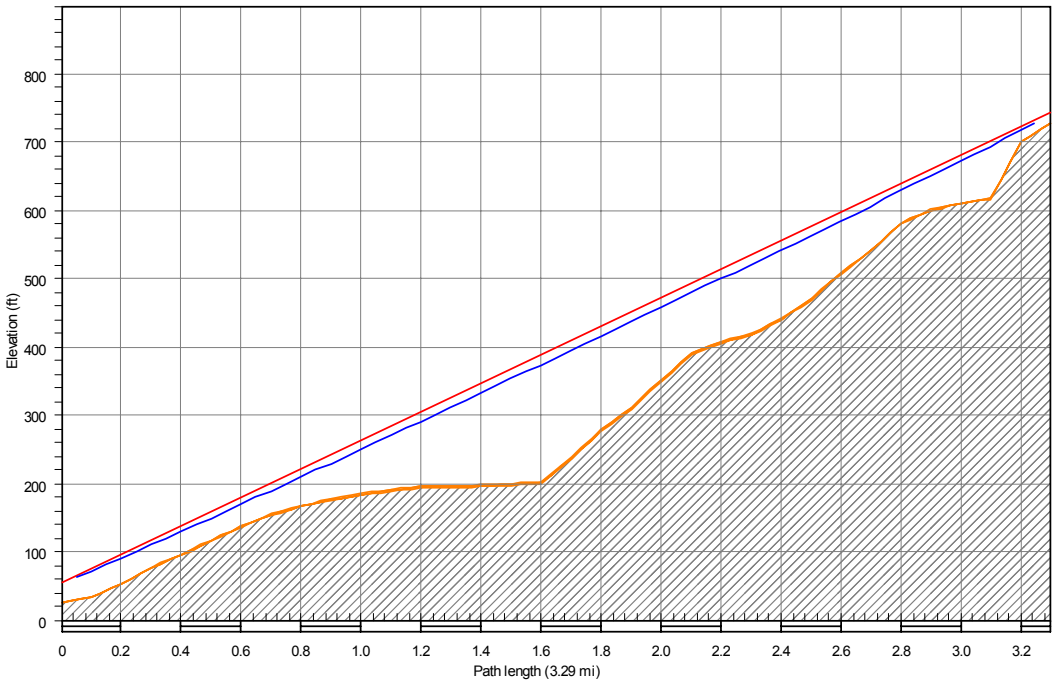

Long Marine	
Latitude	36 56 59.00 N
Longitude	122 03 56.00 W
Azimuth	12.39°
Elevation	26 ft ASL
Antenna CL	30.0 ft AGL

Frequency (MHz) = 18000.0
K = 1.33, 0.67
%F1 = 100.00

Stevenson College	
Latitude	36 59 47.00 N
Longitude	122 03 10.00 W
Azimuth	192.39°
Elevation	728 ft ASL
Antenna CL	15.0 ft AGL

	Aug 30 02	

Long Marine-Stevenson College.pl4	Long Marine	Stevenson College
Elevation (ft)	26.00	728.00
Latitude	36 56 59.00 N	36 59 47.00 N
Longitude	122 03 56.00 W	122 03 10.00 W
True azimuth (°)	12.39	192.39
Vertical angle (°)	2.24	-2.28
Antenna model	VHLP2-180	VHLP2-180
Antenna height (ft)	30.00	15.00
Antenna gain (dBi)	38.70	38.70
Frequency (MHz)	18000.00	
Polarization	Vertical	
Path length (mi)	3.29	
Free space loss (dB)	132.06	
Atmospheric absorption loss (dB)	0.29	
Field margin (dB)	1.00	
Net path loss (dB)	55.95	55.95
Radio model	18XP4Plus(S)4DS1	18XP4Plus(S)4DS1
TX power (watts)	0.06	0.06
TX power (dBm)	18.00	18.00
EIRP (dBm)	56.70	56.70
Emission designator	7M0F7W	7M0F7W
RX threshold criteria	BER 10-6	BER 10-6
RX threshold level (dBm)	-80.00	-80.00
Maximum receive signal (dBm)	-20.00	-20.00
RX signal (dBm)	-37.95	-37.95
Thermal fade margin (dB)	42.05	42.05
Dispersive fade margin (dB)	49.00	49.00
Dispersive fade occurrence factor	1.00	
Effective fade margin (dB)	41.25	41.25
Climatic factor	1.00	
Terrain roughness (ft)	40.53	
C factor	1.31	
Average annual temperature (°F)	50.00	
Worst month - multipath (%)	99.99998	99.99998
(sec)	0.42	0.42
Annual - multipath (%)	100.00000	100.00000
(sec)	1.25	1.25
(% - sec)	99.99999 - 2.50	
Rain region	ITU Region D	
0.01% rain rate (mm/hr)	19.00	
Flat fade margin - rain (dB)	42.05	
Rain rate (mm/hr)	280.61	
Rain attenuation (dB)	42.05	
Annual rain (%-sec)	100.00000 - 0.00	
Annual multipath + rain (%-sec)	99.99999 - 2.50	

Fri, Aug 30 2002
Reliability Method - Vigants - Barnett
Rain - ITU-R P530-7