

VINGN	
Latitude	18 19 24.00 N
Longitude	064 51 19.00 W
Azimuth	323.40°
Elevation	22 ft ASL
Antenna CL	30.0 ft AGL

Frequency (MHz) = 22300.0
K = 1.33, 0.60
%F1 = 100.00, 60.00

SBA/BIT	
Latitude	18 19 42.00 N
Longitude	064 51 33.00 W
Azimuth	143.39°
Elevation	525 ft ASL
Antenna CL	40.0 ft AGL

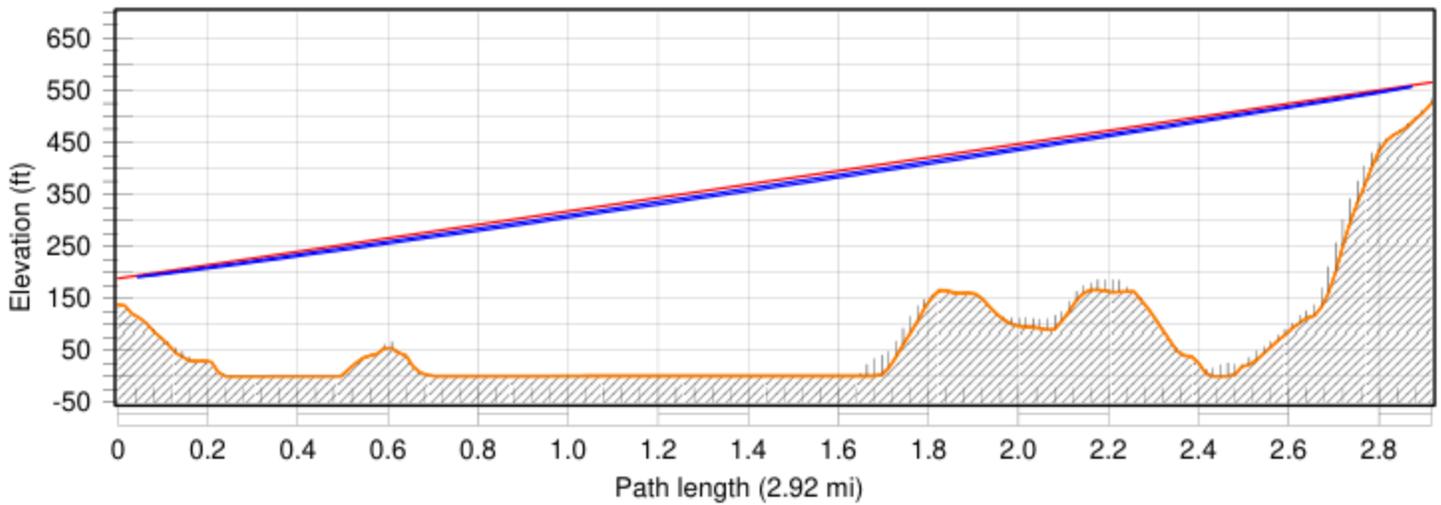
## Transmission details (VINGN-SBABIT.pl5)

	VINGN	SBA/BIT
Latitude	18 19 24.00 N	18 19 42.00 N
Longitude	064 51 19.00 W	064 51 33.00 W
True azimuth (°)	323.40	143.39
Vertical angle (°)	12.78	-12.78
Elevation (ft)	22.45	525.39
Tower height (ft)	30.00	40.00
Antenna model	VHLP1-23 (TR)	VHLP1-23 (TR)
Antenna file name	a-ant-23g-12-c-a	a-ant-23g-12-c-a
Antenna gain (dBi)	35.30	35.30
Antenna diameter (ft)	0.98	0.98
Antenna 3 dB beamwidth H (°)	3.00	3.00
Antenna 3 dB beamwidth E (°)	3.00	3.00
Antenna height (ft)	30.00	40.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	22300.00	
Polarization	Vertical	
Path length (mi)	0.44	
Free space loss (dB)	116.42	
Atmospheric absorption loss (dB)	0.13	
Field margin (dB)	1.00	
Net path loss (dB)	46.95	46.95
Configuration	1+0	1+0
Radio model	23HY50EFC154v02	23HY50EFC154v02
Radio file name	23hy50efc154v02	23hy50efc154v02
TX power (watts)	0.20	0.20
TX power (dBm)	23.00	23.00
EIRP (dBm)	58.30	58.30
RX threshold criteria	1E-6 BER	1E-6 BER
RX threshold level (dBm)	-75.80	-75.80
Maximum receive signal (dBm)	-16.80	-16.80
Receive signal (dBm)	-23.95	-23.95
Thermal fade margin (dB)	51.85	51.85
Dispersive fade margin (dB)	38.70	38.70

	VINGN	SBA/BIT
Dispersive fade occurrence factor	1.00	
Effective fade margin (dB)	38.49	38.49
Geoclimatic factor	1.665E-005	
Path inclination (mr)	223.01	
Fade occurrence factor (Po)	2.264E-009	
Worst month multipath availability (%)	100.00000	100.00000
Annual multipath availability (%)	100.00000	100.00000
Polarization	Vertical	
Flat fade margin - rain (dB)	51.85	
Rain attenuation (dB)	51.85	
Annual rain availability (%)	100.00000	
Annual rain + multipath availability (%)	100.00000	
Annual rain + multipath unavailability (min)	0.00	

Multipath fading method - Rec. ITU-R P.530-13

Rain fading method - Rec. ITU-R P.530-8 and later (R837-5)



Little St James	
Latitude	18 17 59.00 N
Longitude	064 49 35.00 W
Azimuth	312.43°
Elevation	138 ft ASL
Antenna CL	50.0 ft AGL

Frequency (MHz) = 22300.0
K = 1.33, 0.60
%F1 = 100.00, 60.00

SBA/BIT	
Latitude	18 19 42.00 N
Longitude	064 51 33.00 W
Azimuth	132.42°
Elevation	525 ft ASL
Antenna CL	40.0 ft AGL

## Transmission details (Little St James-SBABIT.pl5)

	Little St James	SBA/BIT
Latitude	18 17 59.00 N	18 19 42.00 N
Longitude	064 49 35.00 W	064 51 33.00 W
True azimuth (°)	312.43	132.42
Vertical angle (°)	1.39	-1.42
Elevation (ft)	138.32	525.39
Tower height (ft)	50.00	40.00
Antenna model	VHLP1-23 (TR)	VHLP1-23 (TR)
Antenna file name	a-ant-23g-12-c-a	a-ant-23g-12-c-a
Antenna gain (dBi)	35.30	35.30
Antenna diameter (ft)	0.98	0.98
Antenna 3 dB beamwidth H (°)	3.00	3.00
Antenna 3 dB beamwidth E (°)	3.00	3.00
Antenna height (ft)	50.00	40.00
TX loss (dB)	0.00	0.00
RX loss (dB)	0.00	0.00
Frequency (MHz)	22300.00	
Polarization	Vertical	
Path length (mi)	2.92	
Free space loss (dB)	132.87	
Atmospheric absorption loss (dB)	0.89	
Field margin (dB)	1.00	
Net path loss (dB)	64.16	64.16
Configuration	1+0	1+0
Radio model	23HY50EFC154v02	23HY50EFC154v02
Radio file name	23hy50efc154v02	23hy50efc154v02
TX power (watts)	0.20	0.20
TX power (dBm)	23.00	23.00
EIRP (dBm)	58.30	58.30
RX threshold criteria	1E-6 BER	1E-6 BER
RX threshold level (dBm)	-75.80	-75.80
Maximum receive signal (dBm)	-16.80	-16.80
Receive signal (dBm)	-41.16	-41.16
Thermal fade margin (dB)	34.64	34.64
Dispersive fade margin (dB)	38.70	38.70

	Little St James	SBA/BIT
Dispersive fade occurrence factor	1.00	
Effective fade margin (dB)	33.20	33.20
Geoclimatic factor	1.636E-005	
Path inclination (mr)	24.48	
Fade occurrence factor (Po)	1.214E-005	
Worst month multipath availability (%)	100.00000	100.00000
Annual multipath availability (%)	100.00000	100.00000
Polarization	Vertical	
Flat fade margin - rain (dB)	34.64	
Rain attenuation (dB)	34.64	
Annual rain availability (%)	99.99551	
Annual rain + multipath availability (%)	99.99551	
Annual rain + multipath unavailability (min)	23.59	

Multipath fading method - Rec. ITU-R P.530-13

Rain fading method - Rec. ITU-R P.530-8 and later (R837-5)