

Micronet Communications, Inc.

720 F Avenue, Suite 100
Plano, Texas 75074
972-422-7200

SUPPLEMENTAL SHOWING PART 101.103(D)

File Number: M1829009 5.93 GHz
Licensee: TeleCommunication Systems, Inc.

Page 1

Pursuant to Parts 25.203 and 101.103(d) of the FCC Rules and Regulations, a frequency coordination study was conducted by Micronet Communications, Inc. for the following proposed earth station:

Guam Earth Station, GU

The results of the study indicate that no unacceptable interference will result with existing, proposed or prior coordinated radio facilities.

Coordination was performed with existing, proposed and prior coordinated carriers within coordination range on the following dates:

12/03/2018 Original PCN (Expedited response requested by 12/17/2018)
There were no unresolved interference objections.

The attached coordination data was forwarded on the latest date to the following parties within coordination range or their authorized coordination agents:

COMSEARCH INC
PTI PACIFICA INC.

Respectfully Submitted,



Jeremy Lewis
Systems Engineer

Attached: 1 data sheet

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TECHNICAL CHARACTERISTICS OF TRANSMIT RECEIVE EARTH STATION

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Company:	TeleCommunication Systems, Inc.		
Site Name, State:	Guam Earth Station, GU		
Call Sign:	E090026		
Latitude	(NAD83)	13 25	58.0 N
Longitude	(NAD83)	144 42	47.0 W
Elevation AMSL	(ft/m)	938.81	286.15
Receive Frequency Range	(MHz)	3700-4200	
Transmit Frequency Range	(MHz)	5925-6425	
Range of Satellite Orbital Long.	(deg W)	177.00	232.00
Range of Azimuths from North	(deg)	249.81	269.37
Antenna Centerline	(ft/m)	7.87	2.40
Antenna Elevation Angles	(deg)	49.71	-5.99

Equipment Parameters	Receive	Transmit
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Antenna Gain, Main Beam	(dbI)	38.20	42.20
15 DB Half Beamwidth	(deg)	4.90	2.90

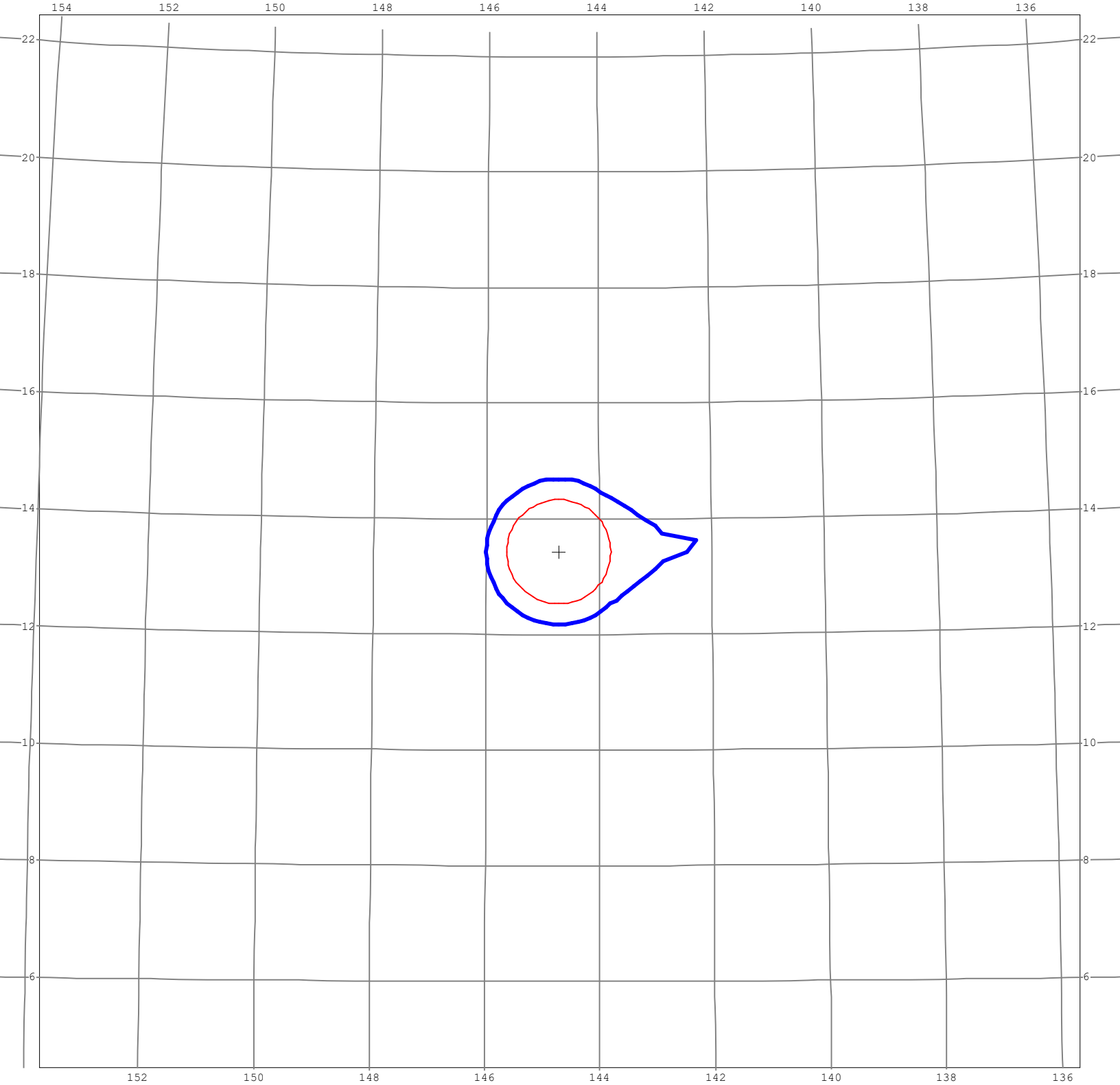
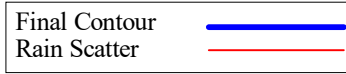
Antennas Receive: GD SATCOM 1259
 Transmit: GD SATCOM 1259

Max Transmitter Power	(dbW/4KHz)		-9.40
Max EIRP Main Beam	(dbW/4KHz)		32.80
Modulation / Emission Designator	DIGITAL	2M15G7W 717KG7W	
90K0G7W			

Coordination Parameters	Receive	Transmit
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Max Greater Circle Distances	(km)	634.57	264.01
Max Rain Scatter Distances	(km)	345.33	100.00
Max Interference Power Long Term	(dbW)	-158.60	-154.80
Max Interference Power Short Term	(dbW)	-149.90	-130.80
Rain Zone / Radio Zone		4	A

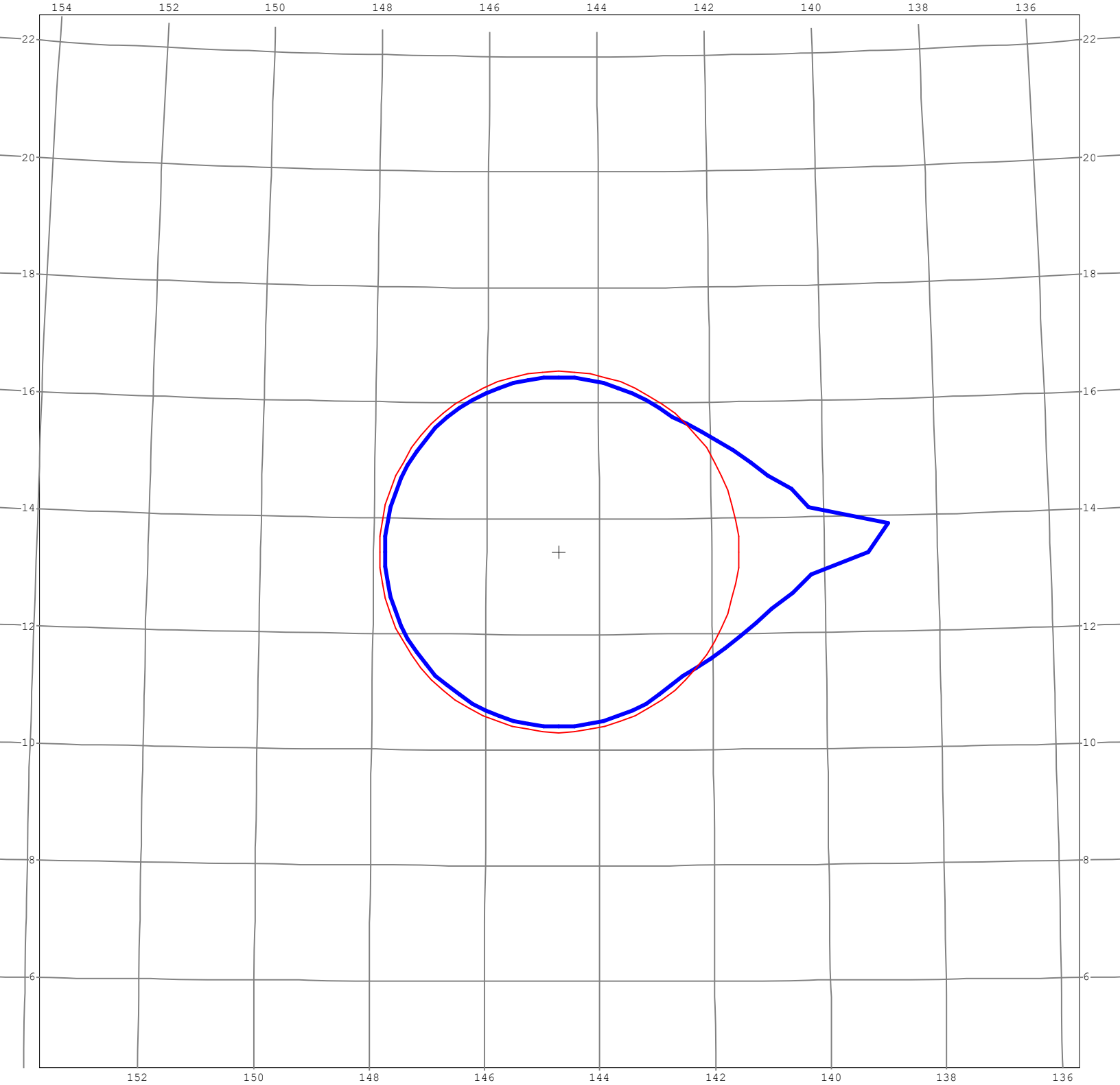
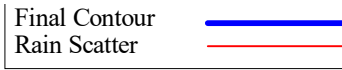
Final Contour & Rain Scatter for Guam Earth Station, GU - Transmit



SCALE - 1:10000000 1 inch = 157.8 miles

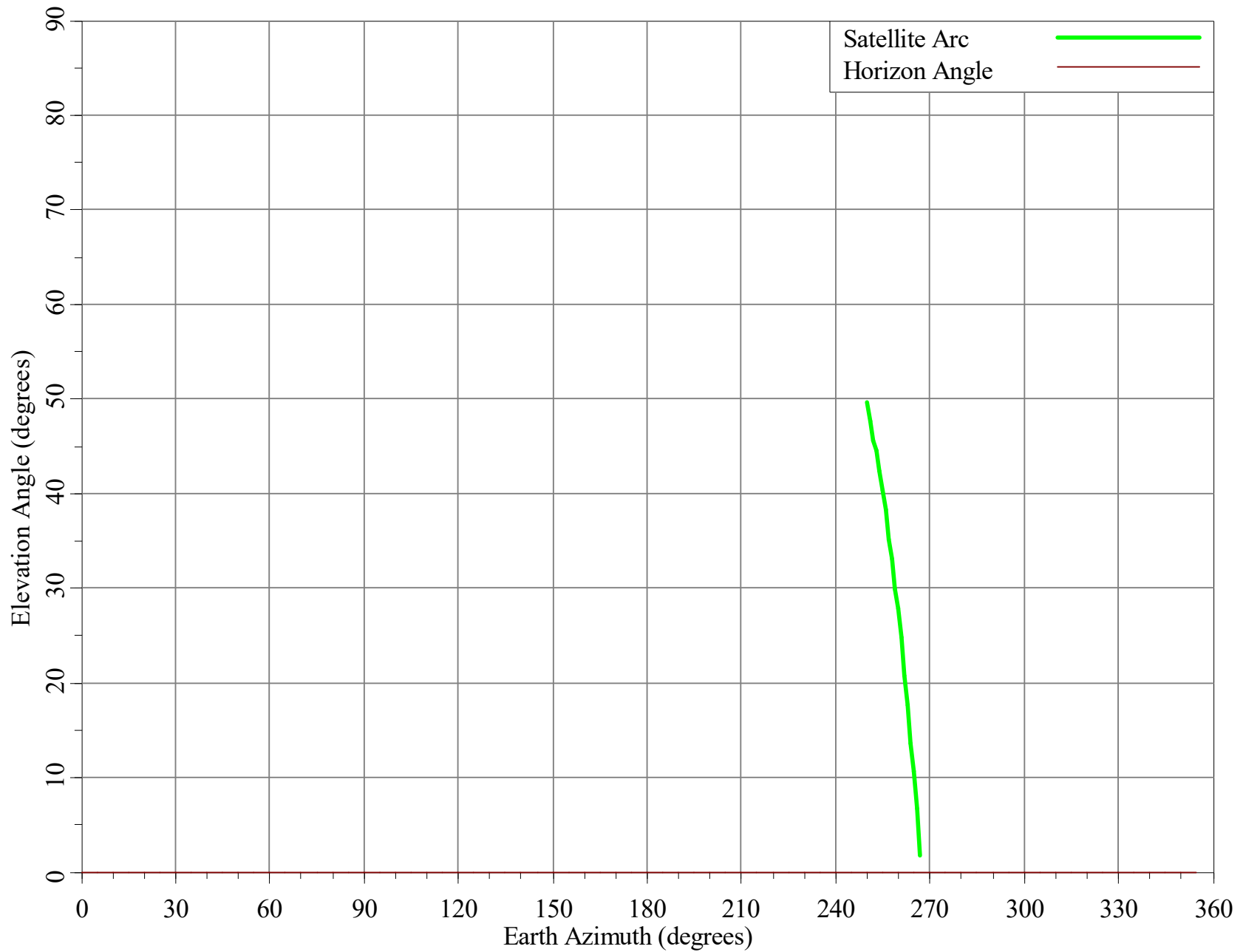
Final Contour & Rain Scatter for Guam Earth Station, GU - Receive

SCALE - 1:10000000 1 inch = 157.8 miles

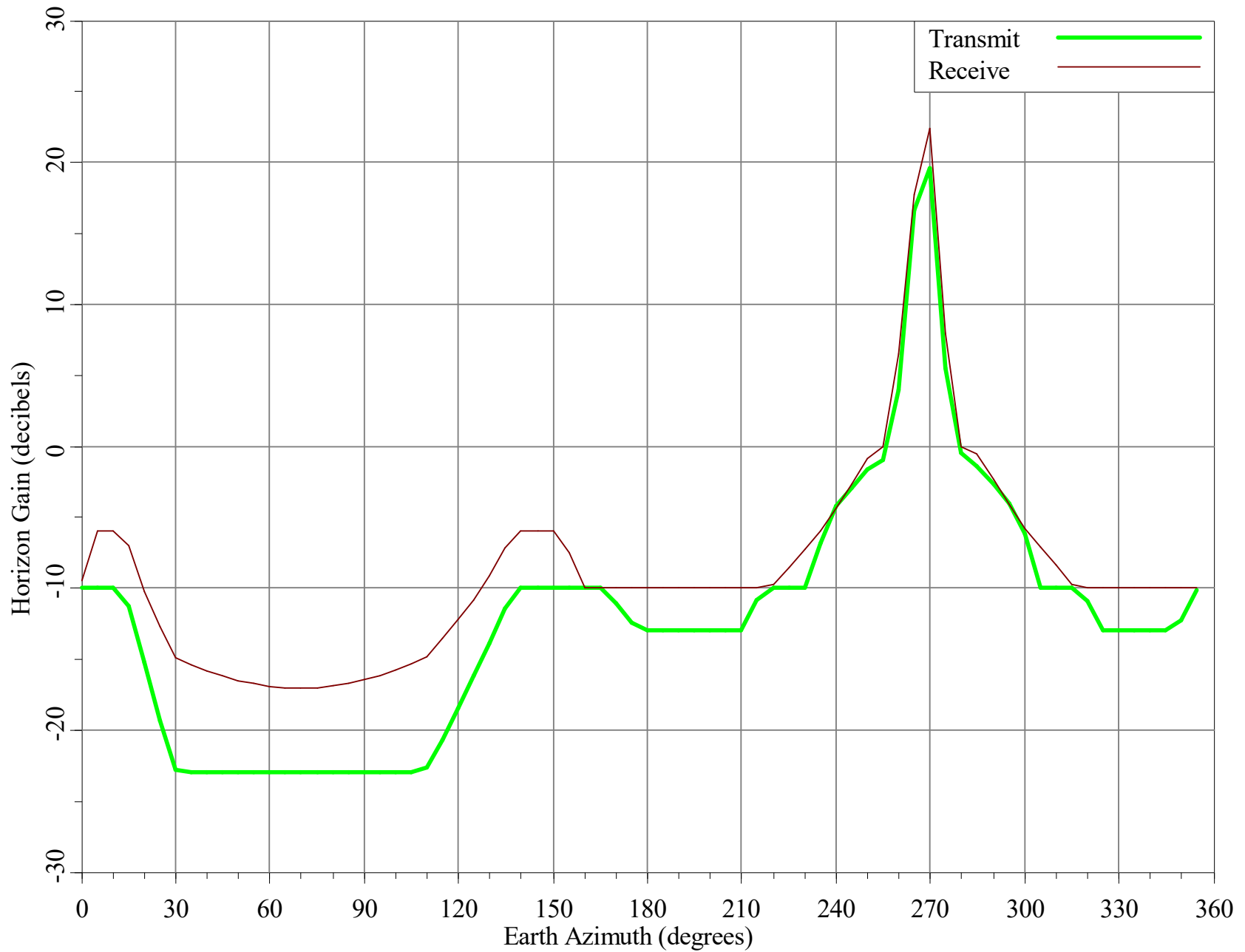


Horizon Angle & Satellite Arc for Guam Earth Station, GU

Micronet Communications, Inc.



Horizon Gain for Guam Earth Station, GU
Micronet Communications, Inc.



Minimum Discrimination Angles for Guam Earth Station, GU
Micronet Communications, Inc.

