

Tele-Sci Solutions

P.O. Box 237

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FREQUENCY COORDINATION REPORT

4 AND 6 GHZ TRANSMIT-RECEIVE EARTH STATION

CHRISTIAN TELEVISION NETWORK

LARGO, FL

JUNE 17, 2011

1. **CONCLUSIONS**

An Interference Study considering all existing, proposed and prior coordinated microwave and wireless facilities within the coordination contours of the proposed Earth Station demonstrates that this site will operate satisfactorily with the Common Carrier and Private Microwave Environment as defined on the frequency coordination data sheet.

2. **SUMMARY OF RESULTS**

There were no potential great circle interference cases at 4 GHz. There were no potential great circle interference cases at 6 GHz.

There were no reported cases of rain scatter beam intersections.

3. **SUPPLEMENTAL SHOWING**

The Satellite Earth station proposed in this Application was coordinated by Tele-Sci Solutions, using computer techniques and in accordance with Parts 25 and 101 of the FCC Rules and Regulations.

4. **FREQUENCY COORDINATION DATA**

The attached Frequency Coordination Data contains the following:

Technical Characteristics of Proposed Earth Station

Horizon Antenna Gain Plot 6 & 4 GHz

Satellite Elevation Plot

Local Horizon Plot

4 and 6 GHz Coordination Contour

4 and 6 GHz Rain Scatter

5. **FREQUENCY COORDINATION STATEMENT (FCC PART 101)**

Holders of licenses, permittees, prior filed applicants or planners of 6 GHz transmitting stations were notified on February 25, 2008 of the proposed Earth Station technical details in accordance with Section 25.203 (c-2) of the FCC Rules and Regulations. Satisfactory coordination was achieved on the basis that harmful interference would not occur, or that sufficient terrestrial and/or artificial shielding exists.

Alltel Wireless Holdings, LLC
Comsearch
Florida RSA No. 2B (Indian River) LP
Harris Corporation – Orlando, FL
Micronet Communications Inc.
Orlando SMSA Ltd Partnership
Progress Energy Service Company
Radyn, Inc.
Verizon Wireless Personal Comm., LP (S FL)

6. **Certification of Person Responsible for Preparing Frequency Coordination Information Submitted in this Application**

I hereby certify that I am the technically qualified person responsible for preparation of the frequency coordination information contained in this application; that I am familiar with Parts 101 and 25 of the Commission's Rules; that I have either prepared or reviewed the frequency coordination information submitted in this application; and, that it is complete and accurate to the best of my knowledge.

Janine I. Miliband

Janine I. Miliband
Tele-Sci Solutions
June 17, 2011

Tele-Sci Solutions

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TO: All Coordinators

May 12, 2011

**Re: Christian Television Network
Permanent T/R C-Band Earth Station
Largo, FL**

Dear Frequency Coordinator:

On behalf of Christian Television Network we are forwarding the attached frequency coordination request for a permanent T/R earth station to be located at Largo, FL. Please review this data for potential interference in accordance with Part 101 and 25 of the FCC Rules and Regulations.

We would appreciate your reply either by telephone, mail, email or fax to the Tele-Sci Solutions office by June 12, 2011. If we do not hear from you by this date, we will assume that you concur with our proposal. If you should have any questions, please do not hesitate to contact Tele-Sci Solutions.

Thank you for your assistance in this coordination.

Sincerely,

Janine Miliband
General Manager

SATELLITE EARTH STATION
 FREQUENCY COORDINATION DATA
 04/29/11

COMPANY NAME:	CHRISTIAN TELEVISION NETWORK
EARTH STATION LOCATION:	LARGO, FL
LATITUDE (DMS):	27 53 56
LONGITUDE (DMS):	82 44 6
SITE GROUND ELEVATION (FT. AMSL):	14.0
ANTENNA CENTER LINE (FT)	10.0
ANTENNA TYPE:	COMTECH OFFSAT
ANTENNA DIAMETER (METERS):	4.1
4 GHZ ANTENNA GAIN (DBI):	42.0
15 DB HALF BEAMWIDTH (DEG):	2.30
6 GHZ ANTENNA GAIN (DBI):	45.9
15 DB HALF BEAMWIDTH (DEG)	1.60
OPERATING MODE:	T/R
RECEIVE BAND (MHZ):	3924 H
TRANSMIT BAND (MHZ):	6149 V
EMISSION DESIGNATOR	3M70G1F; 3M70G7D
MODULATION:	DIGITAL
MAX. AVAILABLE RF POWER (DBW/4KHZ):	-13.66
(DBW/3.7MHZ) :	16.0
MAX. EIRP (DBW/4KHZ):	32.24
(DBW/3.7MHZ) :	61.9
MAX. PERMISSIBLE INTERFERENCE POWER	
4 GHZ 20% (DBW)	-140.0
4 GHZ 0.0100% (DBW)	-130.0
6 GHZ 20% (DBW/4KHZ)	-154.0
6 GHZ 0.0025% (DBW/4KHZ)	-131.0
SATELLITE ARC (MIN/MAX)	103/103 DEG
AZIMUTH	218.3/218.3 DEG
ELEVATION	50.5/ 50.5 DEG
RADIO CLIMATE	A
RAIN ZONE	1
MAXIMUM GREAT CIRCLE COORDINATION DISTANCE (KM)	
4 GHZ	214.6
6 GHZ	116.6
PRECIPITATION SCATTER CONTOUR RADIUS (KM)	
4 GHZ	171.4
6 GHZ	201.9
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LARGO, FL
 27 53 56
 82 44 6

AZIMUTH	HORIZON	DISC	HORIZON	4GHZ COORD	6 GHZ	RAIN4	RAIN6
DEGREES	ANGLE	ANGLE	GAIN DBI	DISTANCE	DISTANCE	SCATTER	SCATTER
DEGREES	DEGREES	DEGREES		KM	KM	KM	KM
5.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
10.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
15.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
20.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
25.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
30.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
35.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
40.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
45.	.0	179.0	-10.0	214.6	116.6	171.4	201.9
50.	.0	175.7	-10.0	214.6	116.6	171.4	201.9
55.	.0	170.9	-10.0	214.6	116.6	171.4	201.9
60.	.0	166.1	-10.0	214.6	116.6	171.4	201.9
65.	.0	161.4	-10.0	214.6	116.6	171.4	201.9
70.	.0	156.6	-10.0	214.6	116.6	171.4	201.9
75.	.0	151.9	-10.0	214.6	116.6	171.4	201.9
80.	.0	147.2	-10.0	214.6	116.6	171.4	201.9
85.	.0	142.5	-10.0	214.6	116.6	171.4	201.9
90.	.0	137.9	-10.0	214.6	116.6	171.4	201.9
95.	.0	133.2	-10.0	214.6	116.6	171.4	201.9
100.	.0	128.6	-10.0	214.6	116.6	171.4	201.9
105.	.0	124.0	-10.0	214.6	116.6	171.4	201.9
110.	.0	119.5	-10.0	214.6	116.6	171.4	201.9
115.	.0	115.0	-10.0	214.6	116.6	171.4	201.9
120.	.0	110.5	-10.0	214.6	116.6	171.4	201.9
125.	.0	106.1	-10.0	214.6	116.6	171.4	201.9
130.	.0	101.7	-10.0	214.6	116.6	171.4	201.9
135.	.0	97.4	-10.0	214.6	116.6	171.4	201.9
140.	.0	93.1	-10.0	214.6	116.6	171.4	201.9
145.	.0	89.0	-10.0	214.6	116.6	171.4	201.9
150.	.0	84.9	-10.0	214.6	116.6	171.4	201.9
155.	.0	81.0	-10.0	214.6	116.6	171.4	201.9
160.	.0	77.1	-10.0	214.6	116.6	171.4	201.9
165.	.0	73.4	-10.0	214.6	116.6	171.4	201.9
170.	.0	69.9	-10.0	214.6	116.6	171.4	201.9
175.	.0	66.5	-10.0	214.6	116.6	171.4	201.9
180.	.0	63.4	-10.0	214.6	116.6	171.4	201.9
185.	.0	60.5	-10.0	214.6	116.6	171.4	201.9
190.	.0	57.9	-10.0	214.6	116.6	171.4	201.9
195.	.0	55.6	-10.0	214.6	116.6	171.4	201.9
200.	.0	53.7	-10.0	214.6	116.6	171.4	201.9
205.	.0	52.2	-10.0	214.6	116.6	171.4	201.9
210.	.0	51.2	-10.0	214.6	116.6	171.4	201.9
215.	.0	50.6	-10.0	214.6	116.6	171.4	201.9
220.	.0	50.5	-10.0	214.6	116.6	171.4	201.9

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AZIMUTH DEGREES	HORIZON ANGLE DEGREES	DISC ANGLE DEGREES	HORIZON GAIN DBI	4GHZ COORD DISTANCE KM	6 GHZ DISTANCE KM	RAIN4 SCATTER KM	RAIN6 SCATTER KM
225.	.0	50.9	-10.0	214.6	116.6	171.4	201.9
230.	.0	51.8	-10.0	214.6	116.6	171.4	201.9
235.	.0	53.2	-10.0	214.6	116.6	171.4	201.9
240.	.0	55.0	-10.0	214.6	116.6	171.4	201.9
245.	.0	57.1	-10.0	214.6	116.6	171.4	201.9
250.	.0	59.6	-10.0	214.6	116.6	171.4	201.9
255.	.0	62.4	-10.0	214.6	116.6	171.4	201.9
260.	.0	65.5	-10.0	214.6	116.6	171.4	201.9
265.	.0	68.8	-10.0	214.6	116.6	171.4	201.9
270.	.0	72.3	-10.0	214.6	116.6	171.4	201.9
275.	.0	75.9	-10.0	214.6	116.6	171.4	201.9
280.	.0	79.7	-10.0	214.6	116.6	171.4	201.9
285.	.0	83.7	-10.0	214.6	116.6	171.4	201.9
290.	.0	87.7	-10.0	214.6	116.6	171.4	201.9
295.	.0	91.8	-10.0	214.6	116.6	171.4	201.9
300.	.0	96.1	-10.0	214.6	116.6	171.4	201.9
305.	.0	100.4	-10.0	214.6	116.6	171.4	201.9
310.	.0	104.7	-10.0	214.6	116.6	171.4	201.9
315.	.0	109.1	-10.0	214.6	116.6	171.4	201.9
320.	.0	113.6	-10.0	214.6	116.6	171.4	201.9
325.	.0	118.1	-10.0	214.6	116.6	171.4	201.9
330.	.0	122.6	-10.0	214.6	116.6	171.4	201.9
335.	.0	127.2	-10.0	214.6	116.6	171.4	201.9
340.	.0	131.8	-10.0	214.6	116.6	171.4	201.9
345.	.0	136.4	-10.0	214.6	116.6	171.4	201.9
350.	.0	141.1	-10.0	214.6	116.6	171.4	201.9
355.	.0	145.7	-10.0	214.6	116.6	171.4	201.9
360.	.0	150.5	-10.0	214.6	116.6	171.4	201.9

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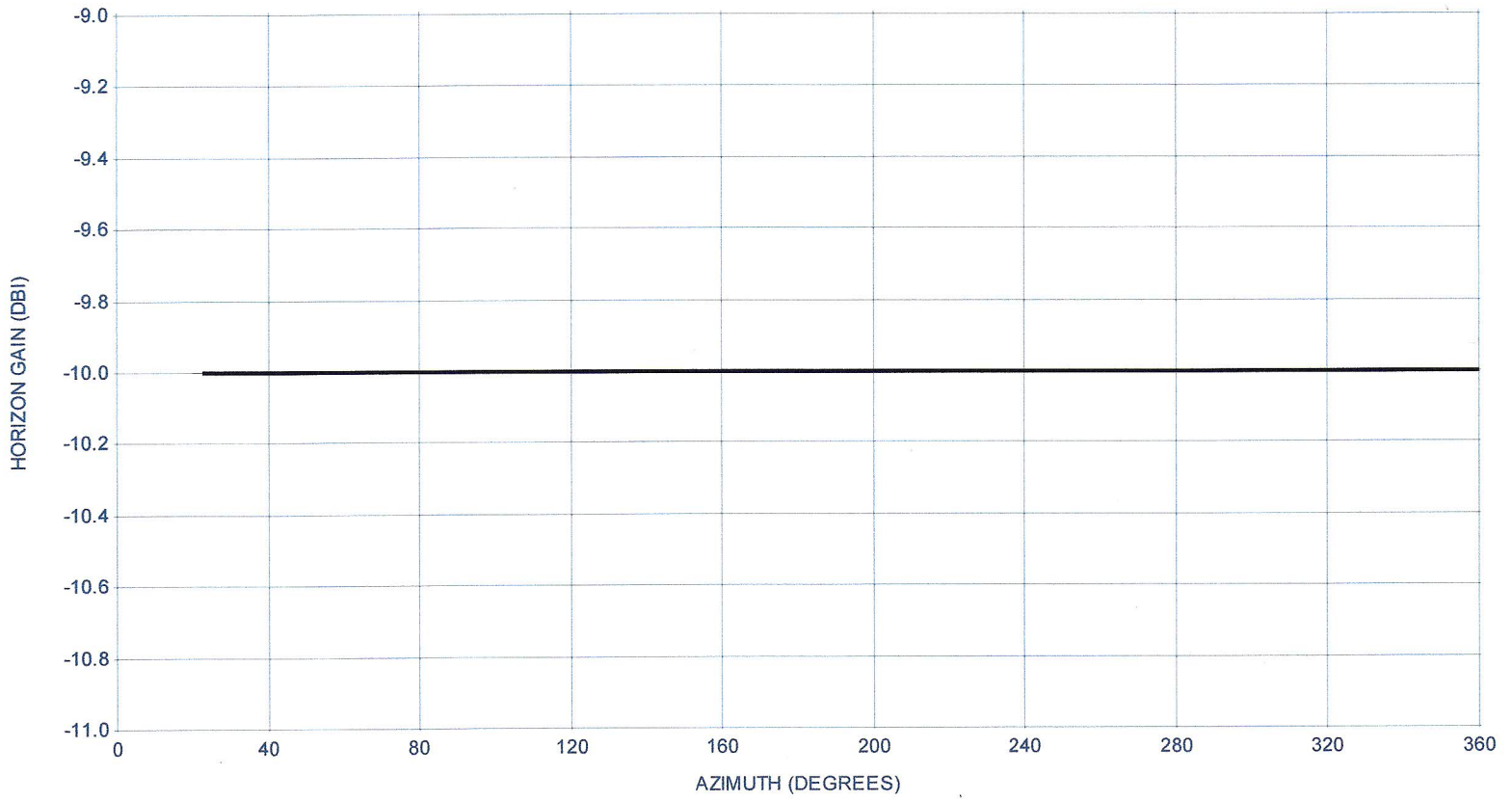
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POINTING AZIMUTH AND ELEVATION ANGLES

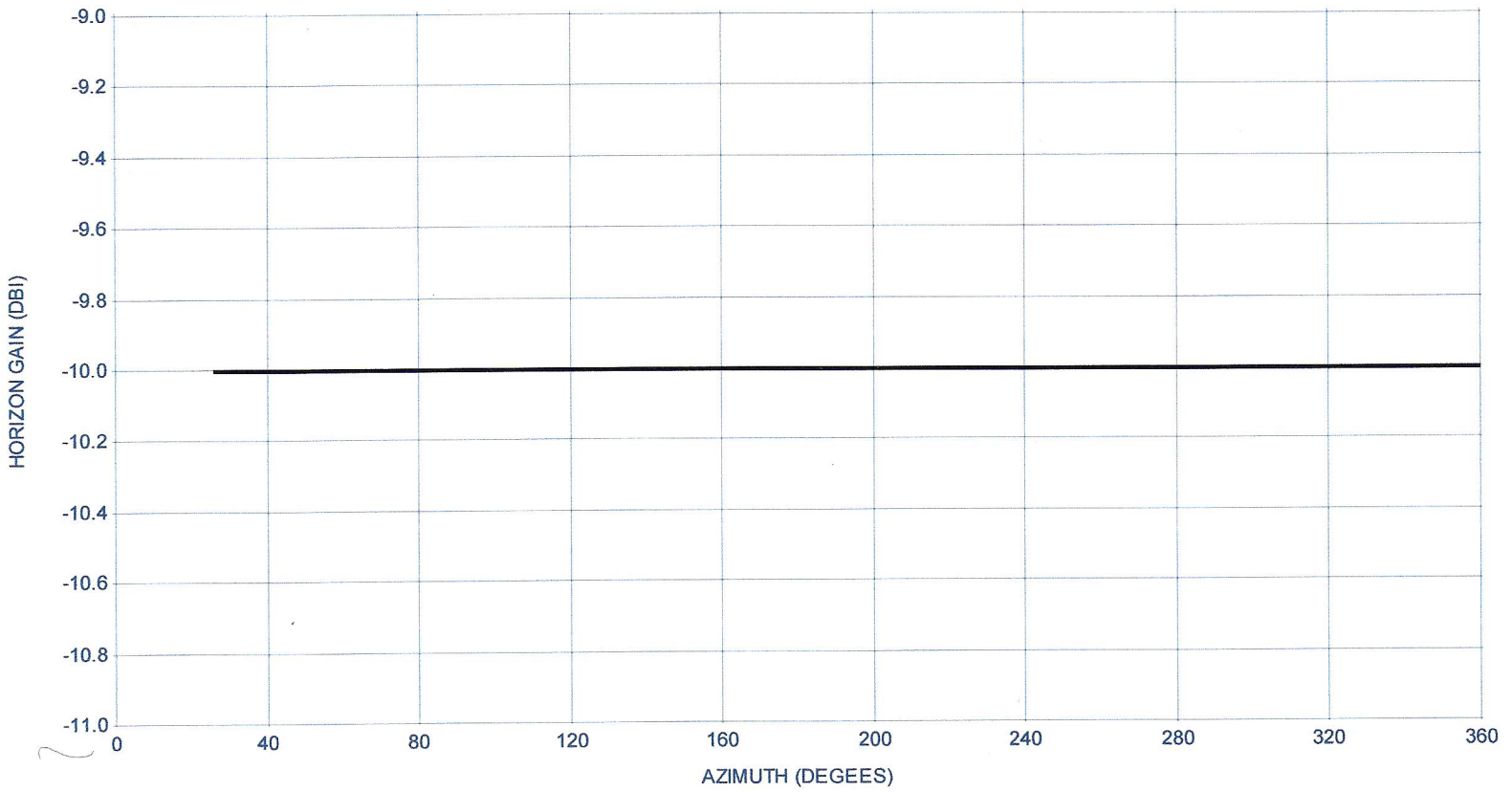
SATELLITE LONGITUDE	LONG DIFF	AZIMUTH	ELEV ANGLE	SATELLITE NAME
103.00	20.26	218.28	50.49	AMC 1

2

HORIZON ANTENNA GAIN PLOT 6 GHZ



HORIZON ANTENNA GAIN PLOT 4 GHZ



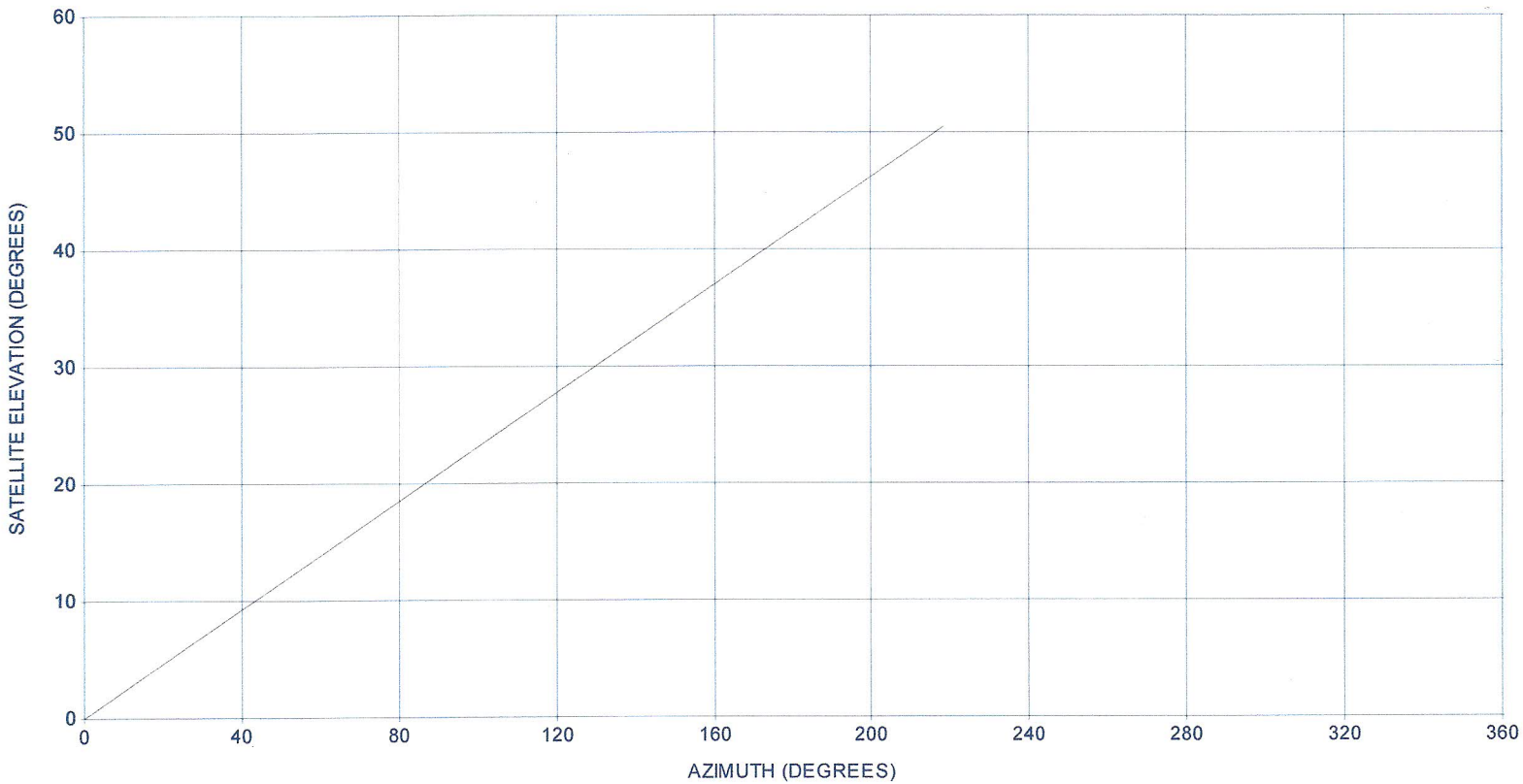
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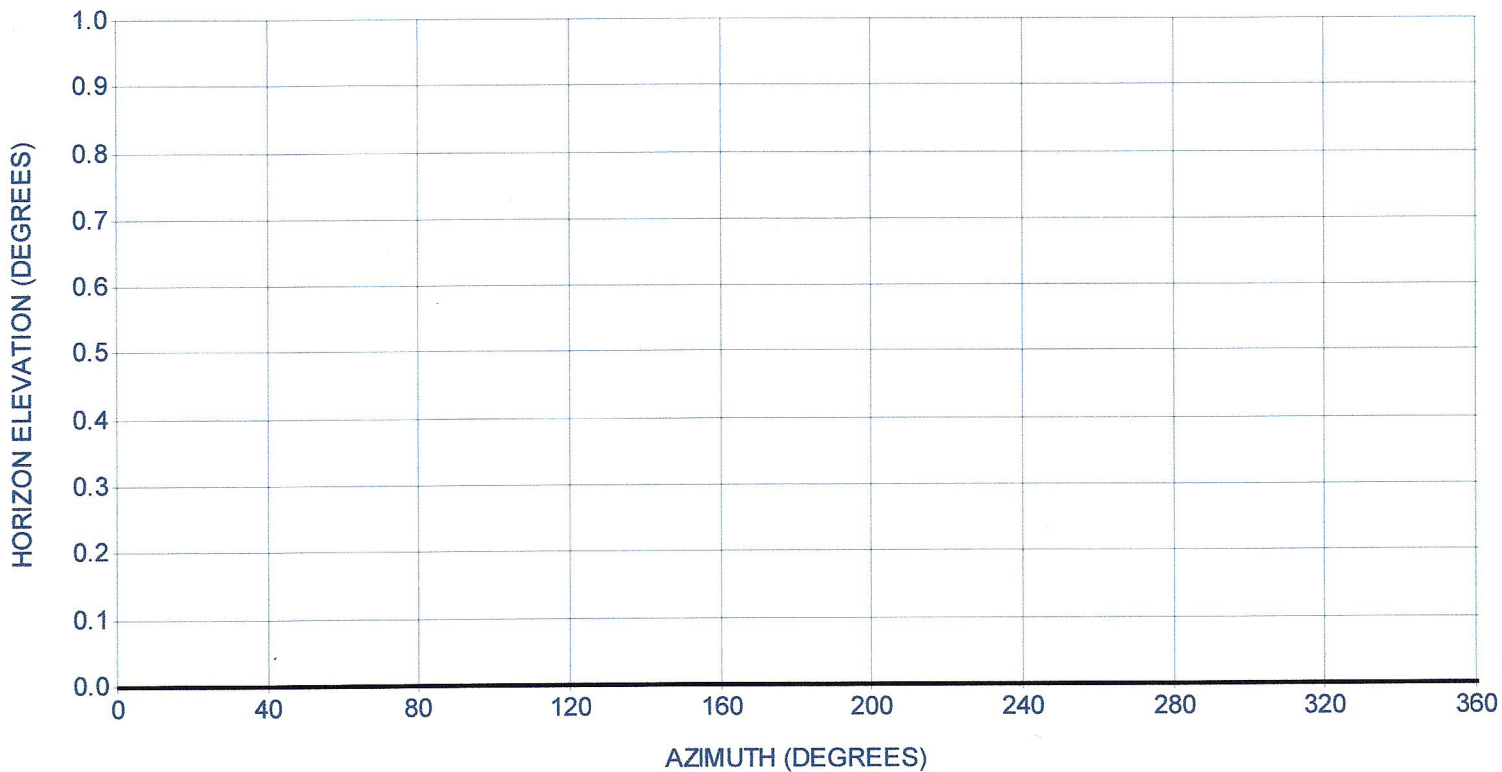
27 53 56

82 44 6

SATELLITE ELEVATION PLOT



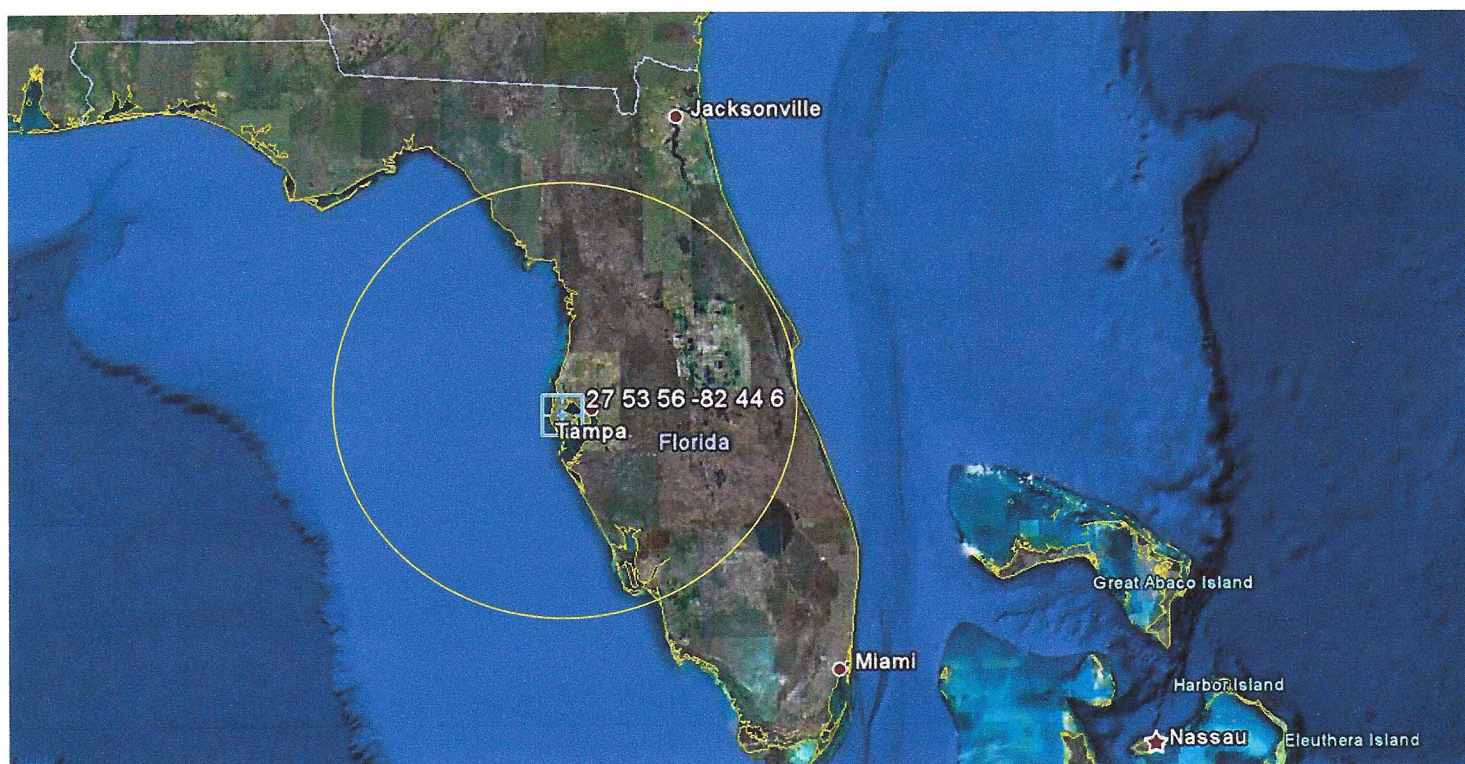
LOCAL HORIZON PLOT



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COORDINATION CONTOUR

4 GHZ



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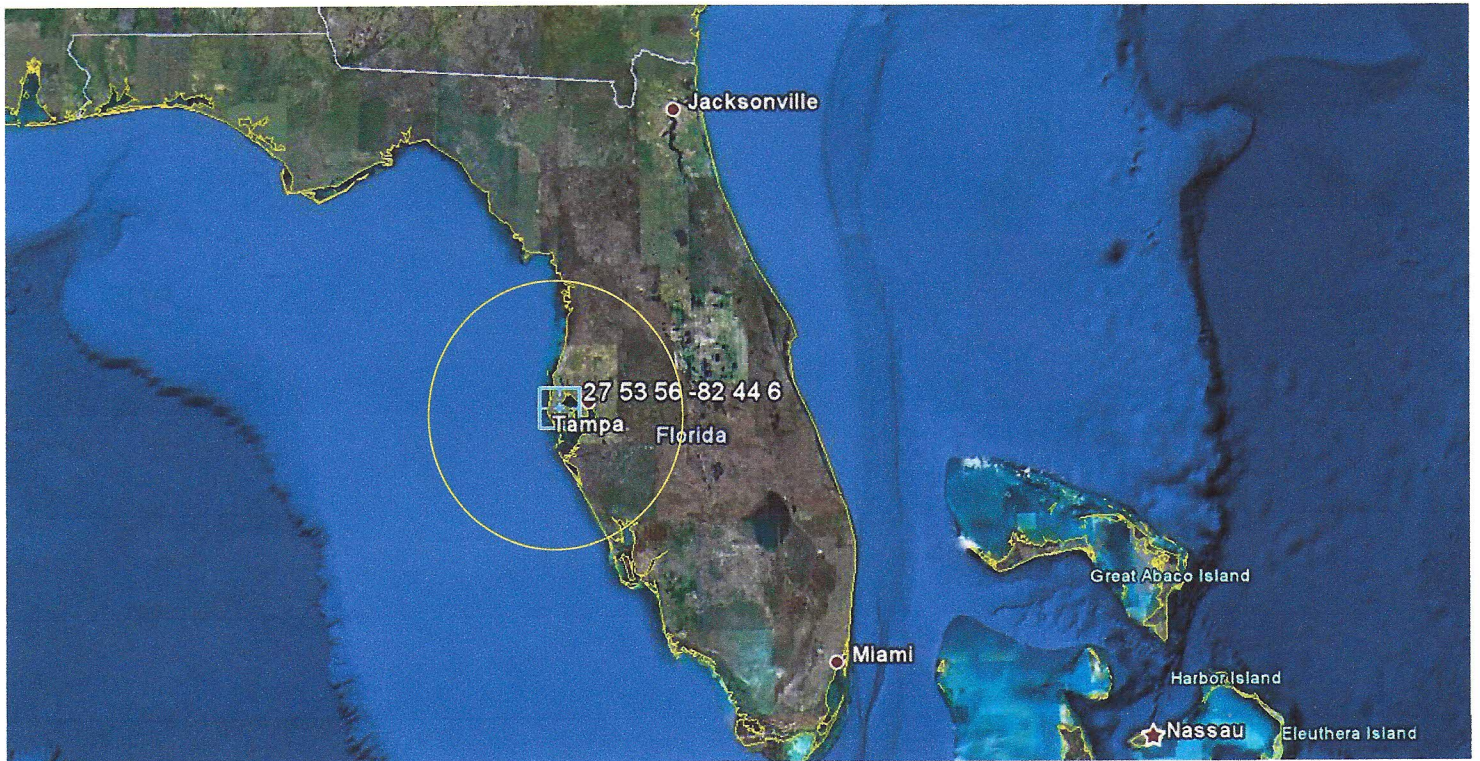
27 53 56

82 44 6

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COORDINATION CONTOUR

6 GHZ



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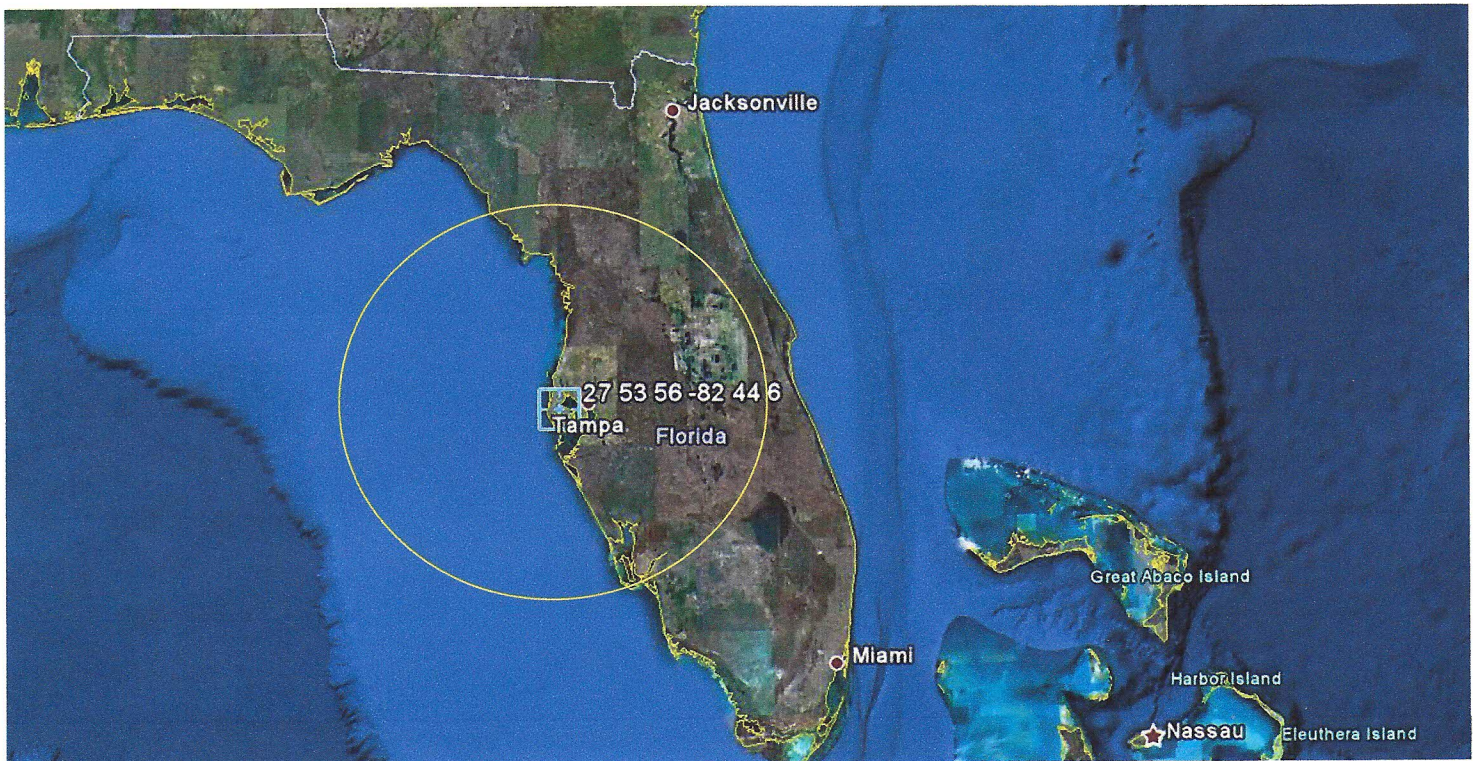
27 53 56

82 44 6

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RAIN SCATTER COORDINATION CONTOUR

4 GHZ



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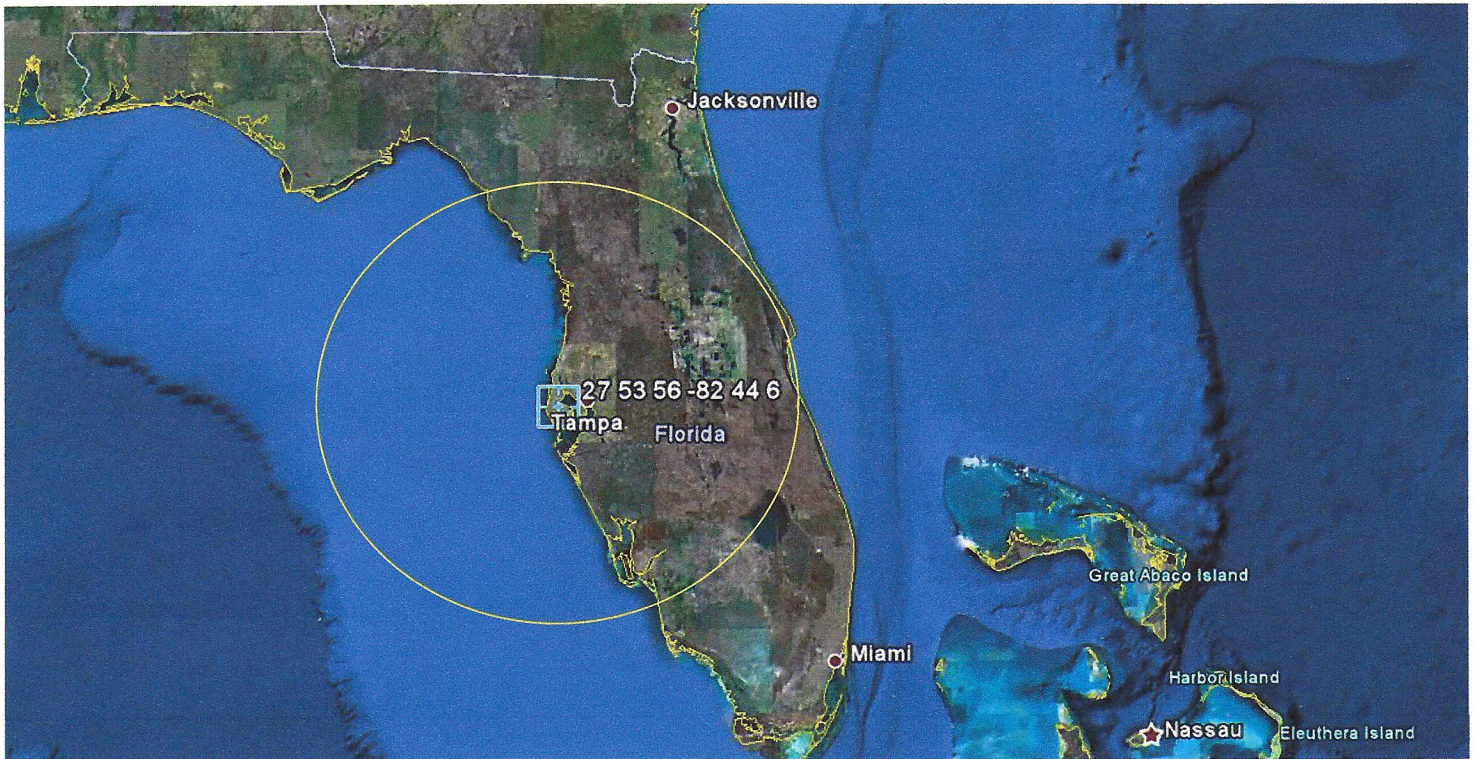
27 53 56

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RAIN SCATTER COORDINATION CONTOUR

6 GHZ



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