

Tele-Sci Solutions

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FREQUENCY COORDINATION REPORT

4 AND 6 GHZ TRANSMIT-RECEIVE EARTH STATION

ALTITUDE SPORTS & ENTERTAINMENT

ENGLEWOOD, COLORADO

SEPTEMBER 20, 2008

1. **CONCLUSIONS**

Tele-Sci Solutions has performed an Interference Study and Frequency Coordination considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed Earth Station. This Interference Study and Frequency Coordination demonstrate that this site will operate satisfactorily with the Terrestrial 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 which have not been satisfactorily resolved. There were no reported cases of rain scatter beam intersections at 4 or 6 GHz.

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

Discrimination Angle Plot

Local Horizon Plot

Satellite Elevation 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 August 19, 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.

BNSF Railway Company
BorderComm Partners LP (XC)
CBS Communications Services, Inc.
CBS Television Stations Inc.
Colorado Interstate Gas Company
Multimedia Holdings Corporation
New Cingular Wireless PCS LLC - Colorado
Qwest Corporation
Sprint Communications Co., LP
Verizon Wireless – Mountain Region
WWC Holding Co., Inc.
Wyoming State of Transportation Dept - Telecommunications
Comsearch
Micronet Communications Inc.
Black & Associates
CTI Connect
Consolidated Spectrum Services
Pinnacle Telecom Group
Radio Dynamics Corporation
Wireless Facilities Inc.

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

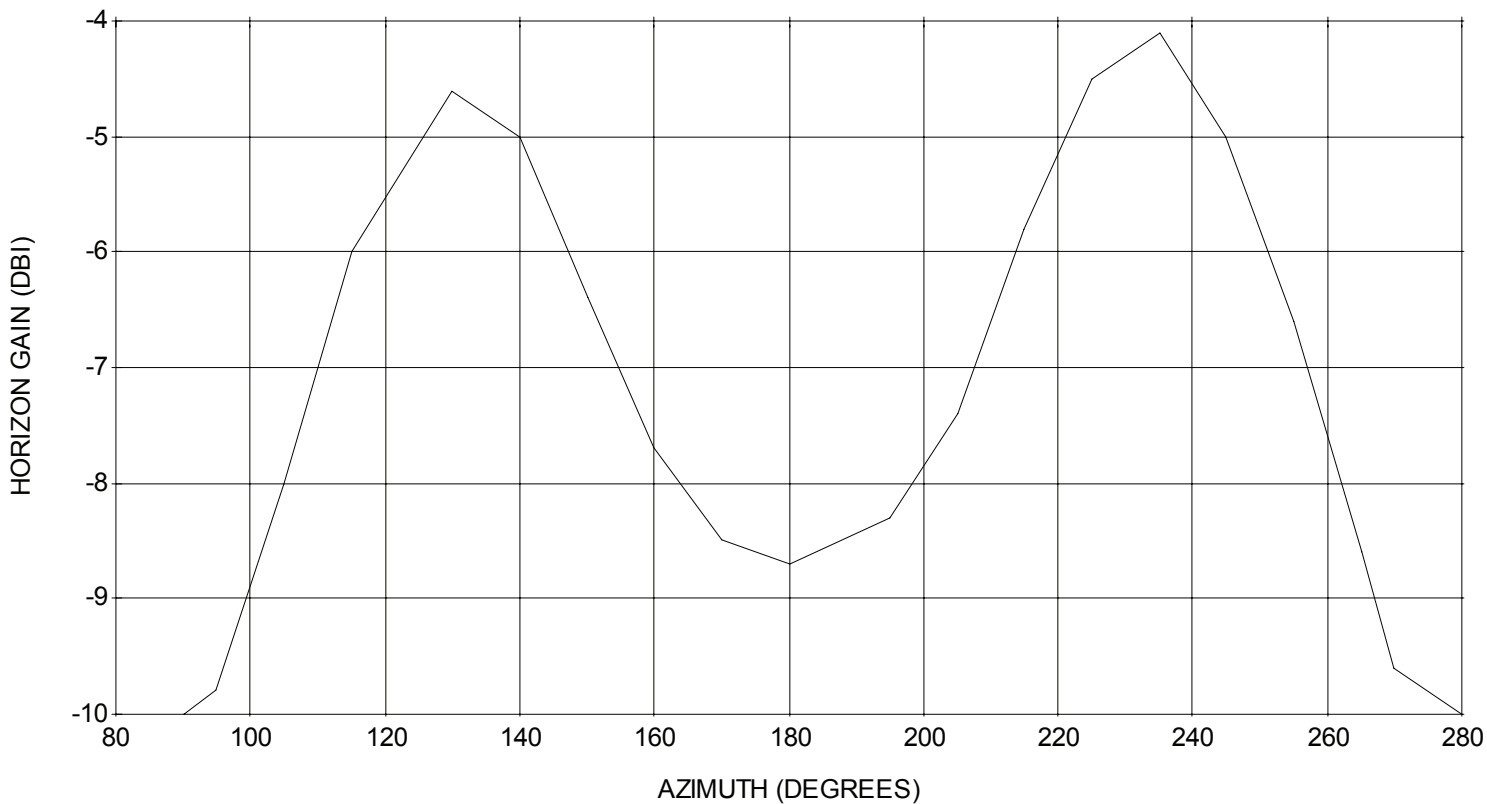
I hereby certify that I am the technically qualified person responsible for preparation of the frequency coordination information contained in this application; that I am familiar with Parts 101 and 25 of the Commission's Rules; that I have either prepared or reviewed the frequency coordination information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

Janine I. Miliband
Tele-Sci Solutions
September 20, 2008

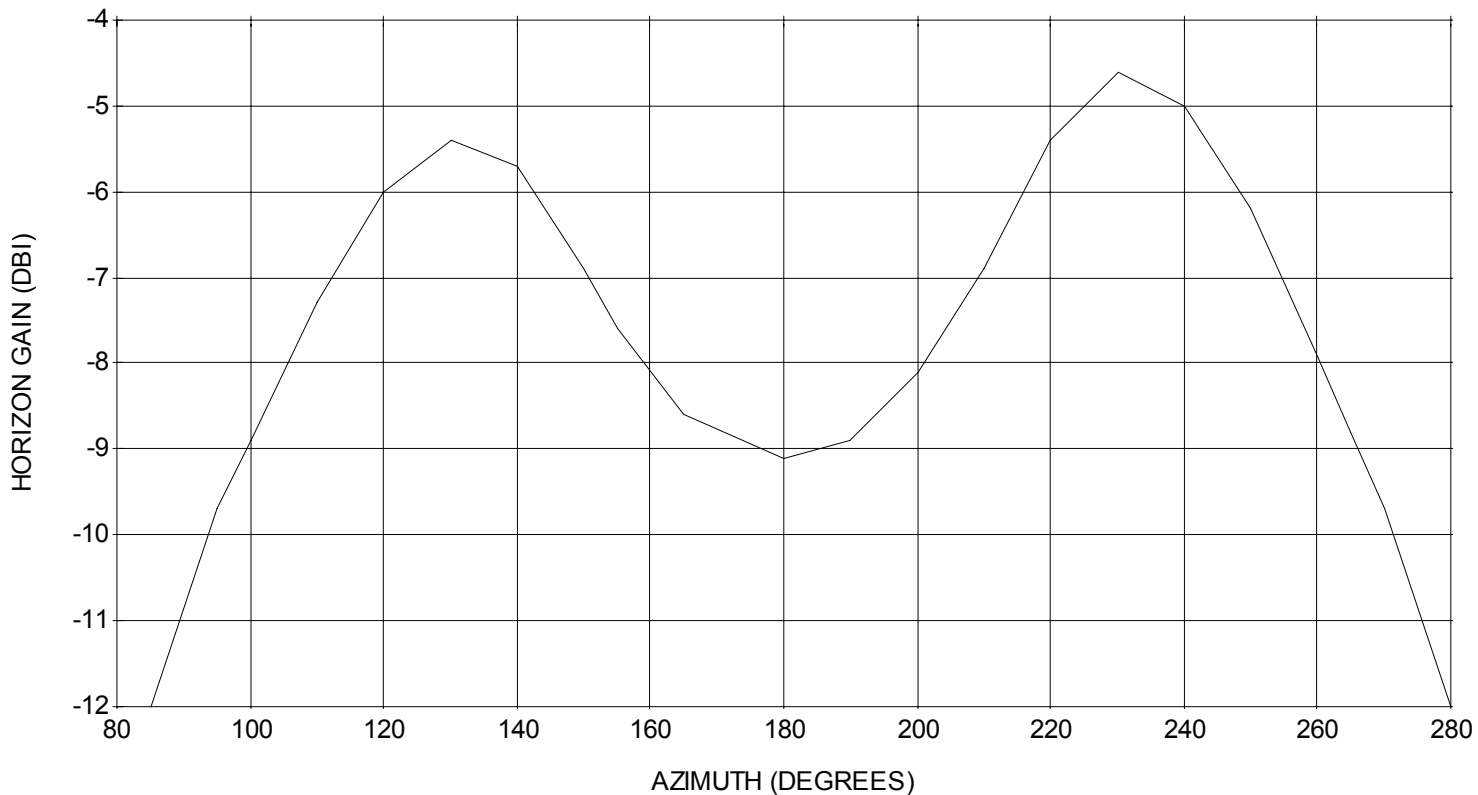
SATELLITE EARTH STATION
FREQUENCY COORDINATION DATA
08/18/08

COMPANY NAME: ALTITUDE SPORTS & ENTERTAINMENT
EARTH STATION LOCATION: ENGLEWOOD, CO
LATITUDE(DMS): 39 35 54.32 (NAD83)
LONGITUDE(DMS): 104 51 28.58
SITE GROUND ELEVATION(FT/M AMSL): 5661.28/1726
ANTENNA CENTER LINE(FT/M) 13.12/4
ANTENNA TYPE: ANDREW
7.3 METER
ANTENNA DIAMETER(METERS): 7.3
4 GHZ ANTENNA GAIN(DBI): 48.3
15 DB HALF BEAMWIDTH(DEG): 1.90
6 GHZ ANTENNA GAIN(DBI): 51.6
15 DB HALF BEAMWIDTH (DEG) 1.30
OPERATING MODE: T/R
RECEIVE BAND(MHZ): 3700-4200
TRANSMIT BAND(MHZ): 5925-6425
EMISSION DESIGNATOR 36MOG1F
MODULATION: DIGITAL
MAX. AVAILABLE RF POWER(DBW/4KHZ): -16.54
(DBW/36MHZ) : 23.0
MAX. EIRP (DBW/4KHZ): 35.06
(DBW/36MHZ) : 74.6
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) 69/144 DEG
AZIMUTH 131.4/231.9 DEG
ELEVATION 31.2/ 29.1 DEG
RADIO CLIMATE A
RAIN ZONE 2
MAXIMUM GREAT CIRCLE COORDINATION DISTANCE(KM)
4 GHZ 254.0
6 GHZ 127.1
PRECIPITATION SCATTER CONTOUR RADIUS(KM)
4 GHZ 131.8
6 GHZ 183.4
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HORIZON ANTENNA GAIN PLOT 6 GHZ



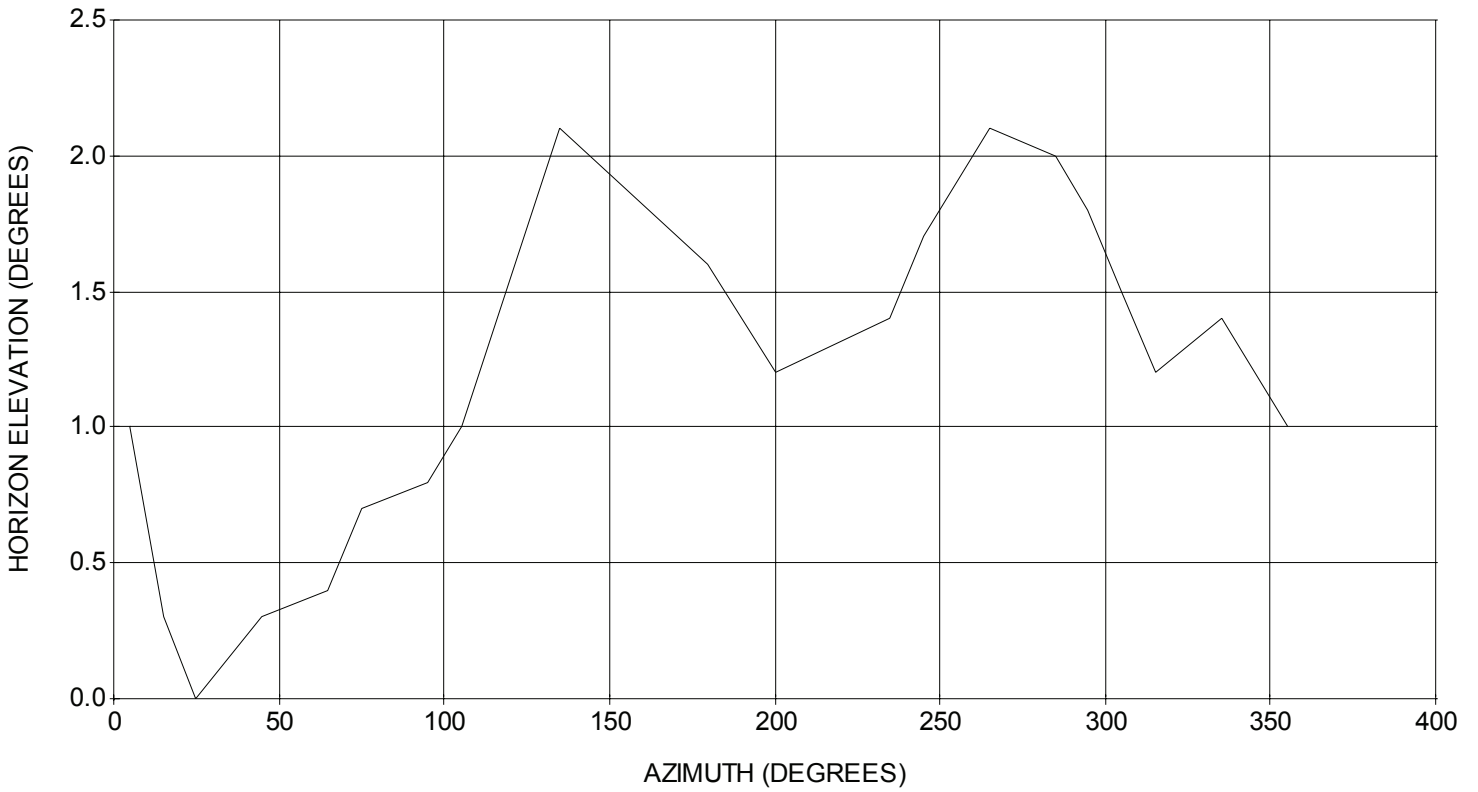
HORIZON ANTENNA GAIN PLOT 4GHZ



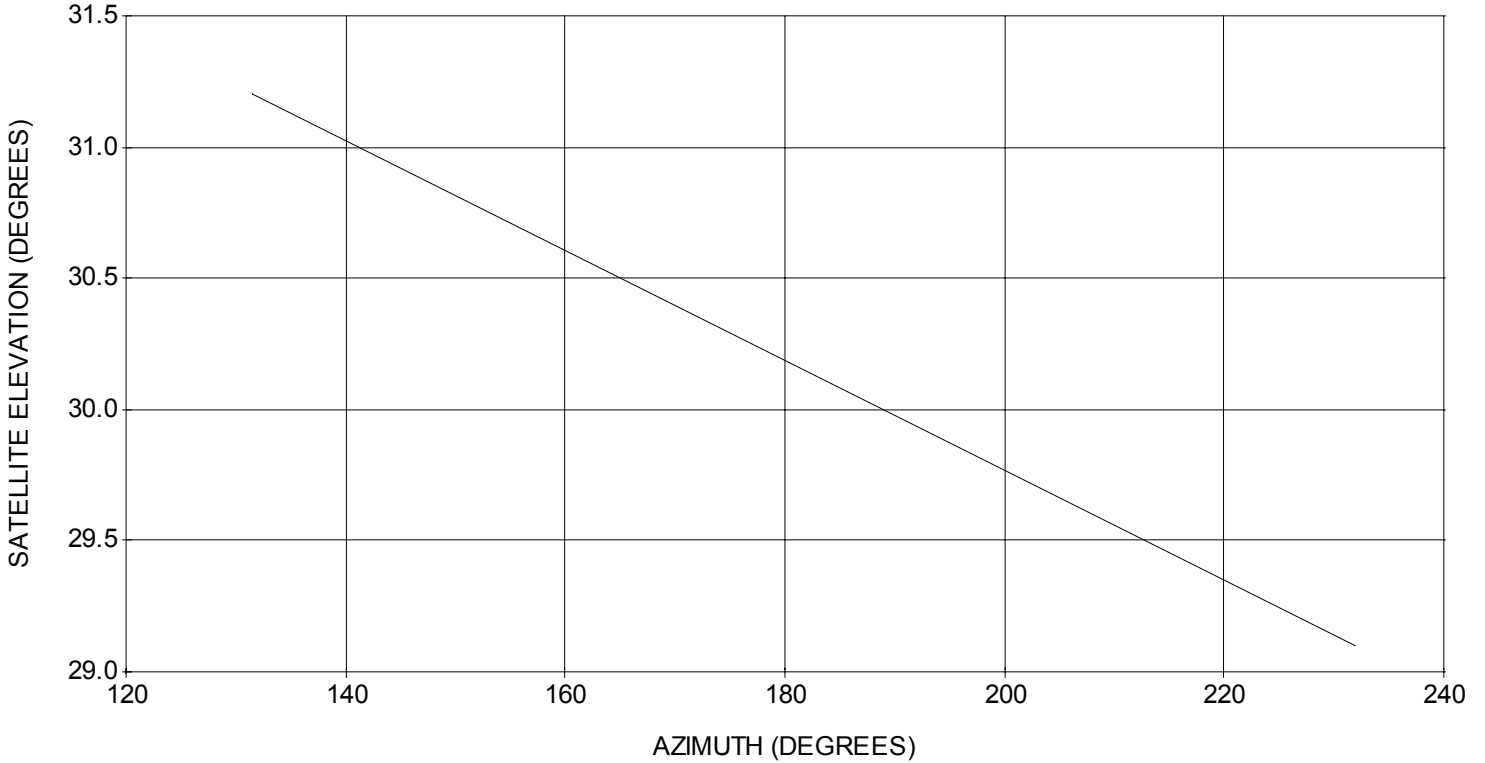
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LOCAL HORIZON PLOT



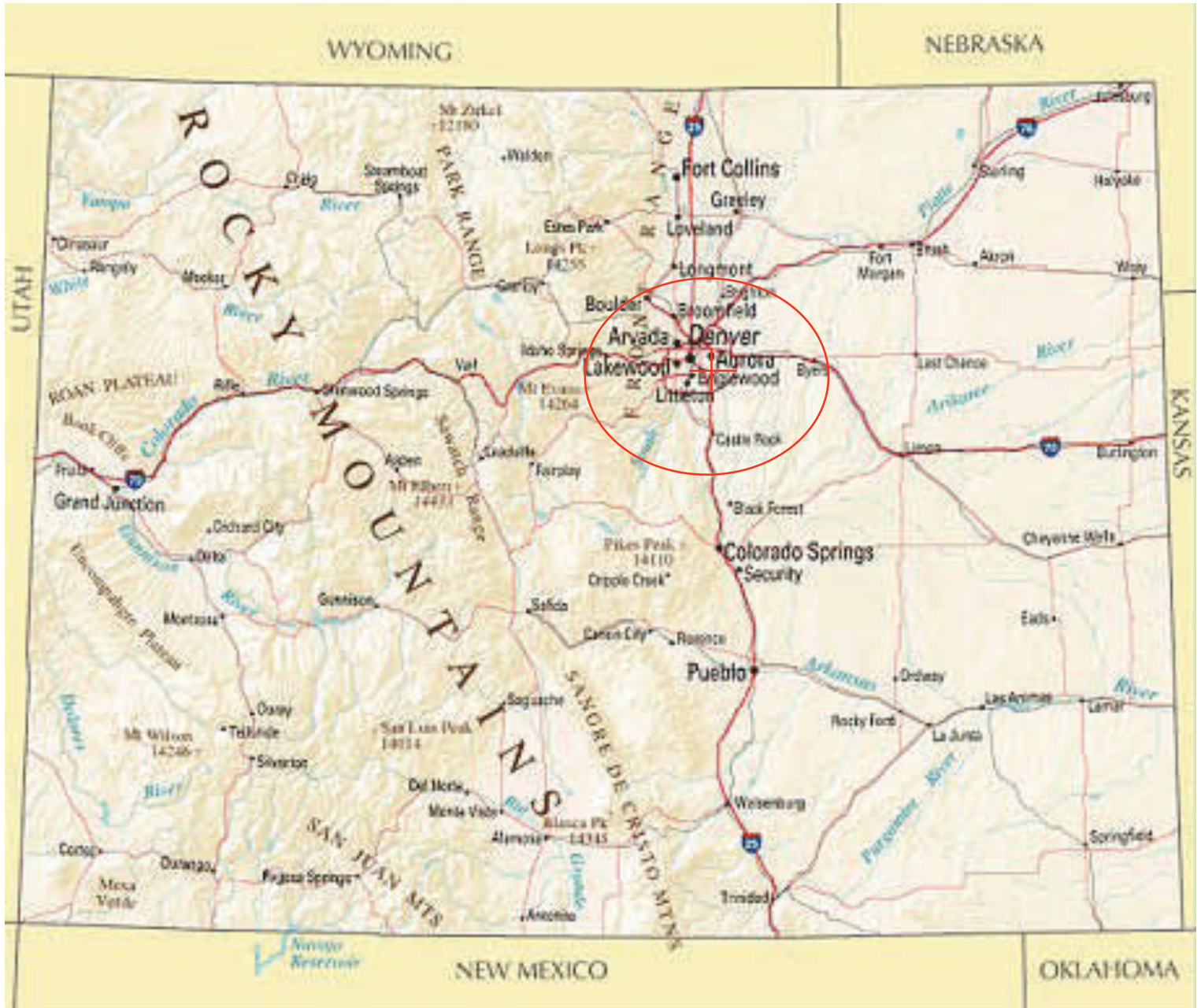
SATELLITE ELEVATION PLOT



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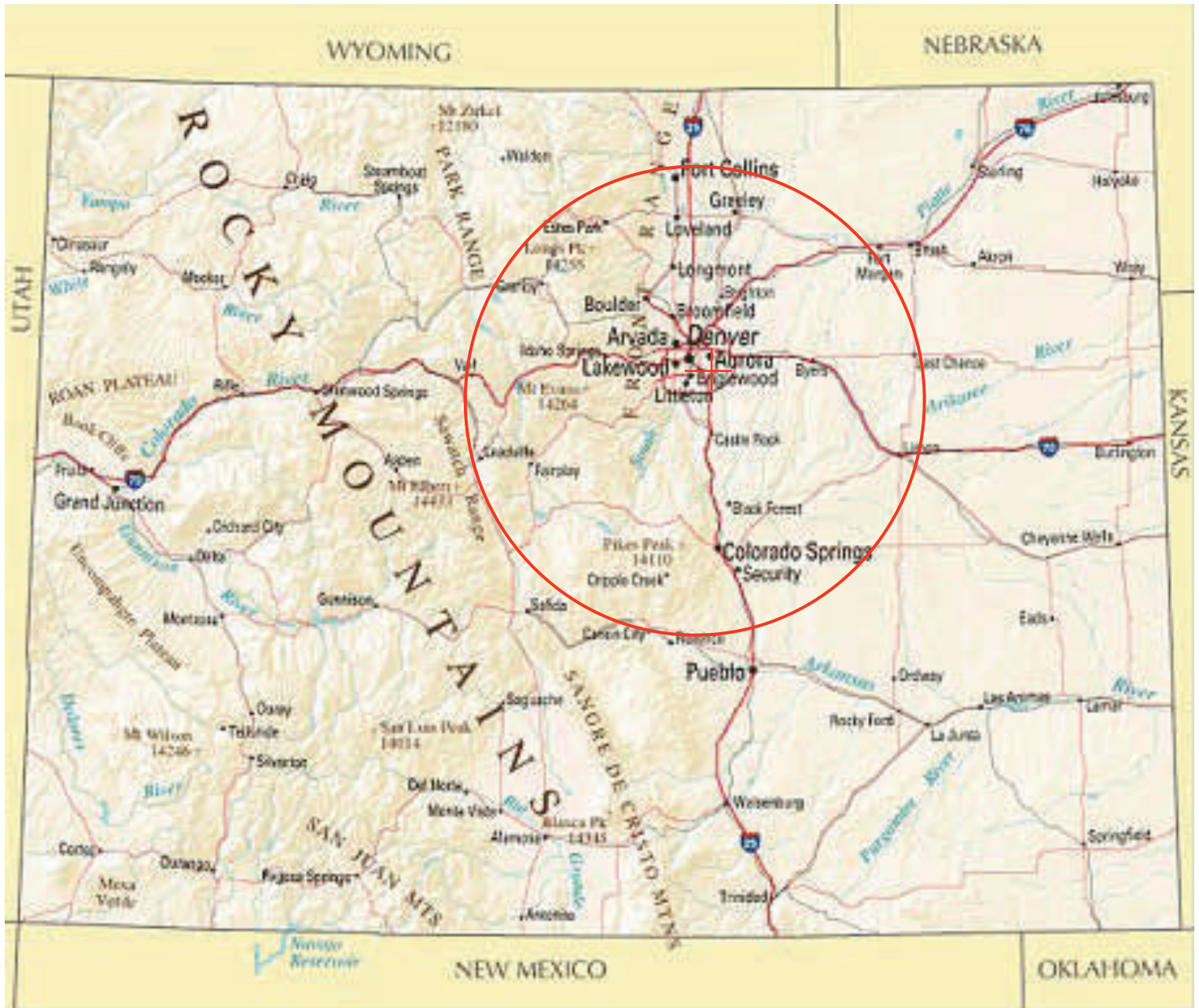
COORDINATION CONTOUR 6 GHZ



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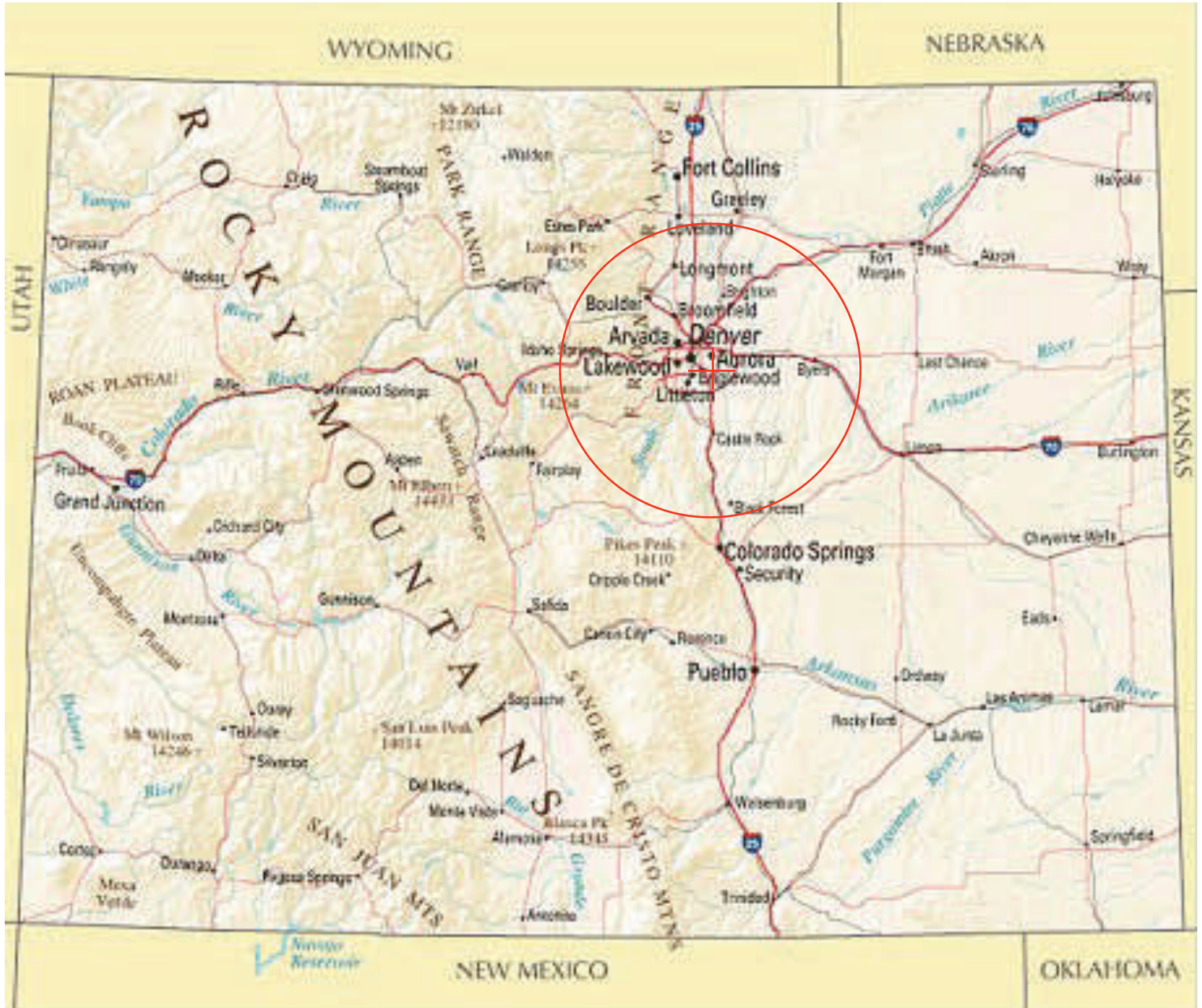
COORDINATION CONTOUR 4 GHz



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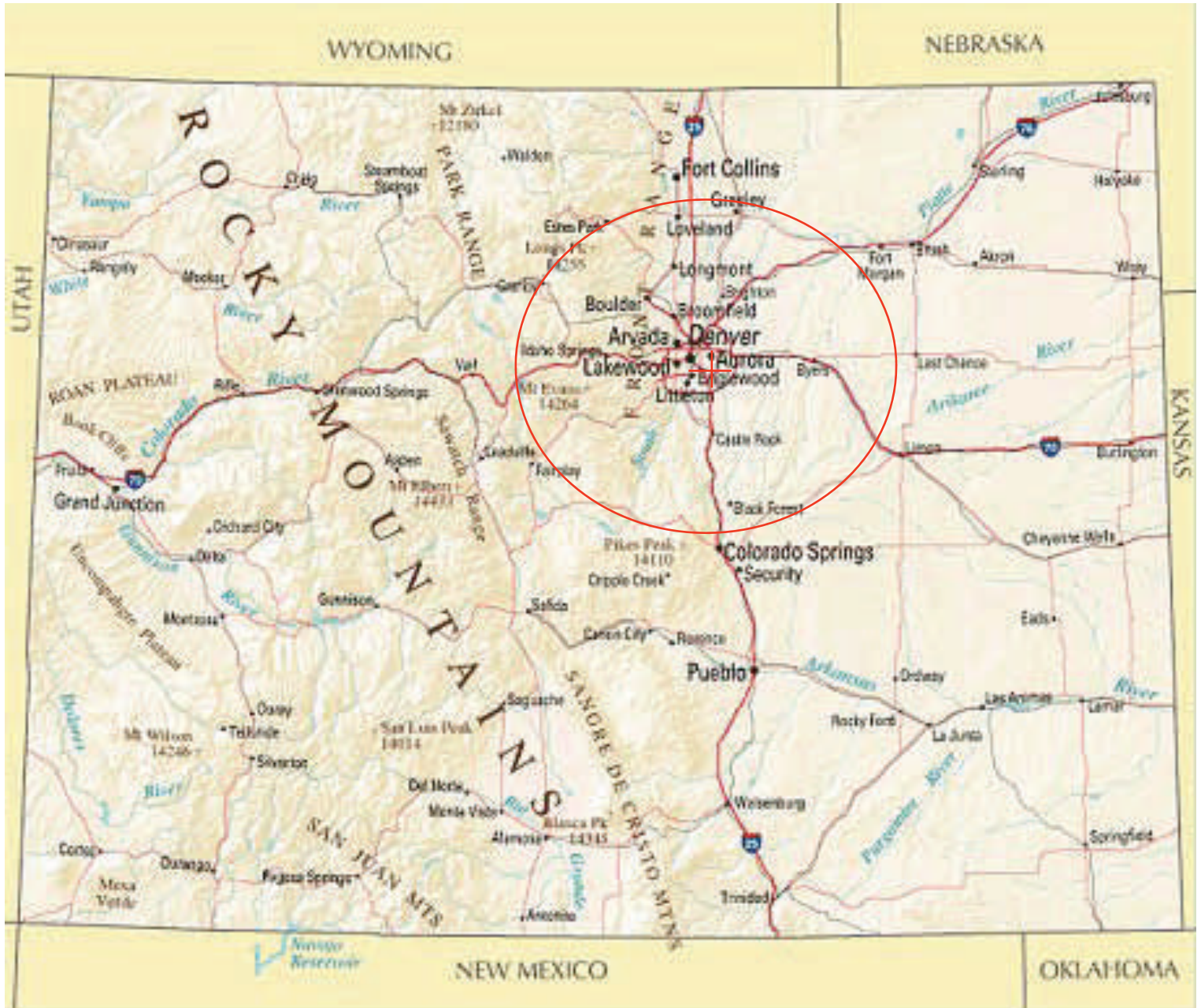
RAIN SCATTER COORDINATION CONTOUR 6 GHZ



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RAIN SCATTER COORDINATION CONTOUR 4 GHZ



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POINTING AZIMUTH AND ELEVATION ANGLES

SATELLITE LONGITUDE	LONG DIFF	AZIMUTH	ELEV ANGLE	SATELLITE NAME
69.00	-35.86	131.41	31.23	
70.00	-34.86	132.46	31.85	BRASILSAT B2
71.00	-33.86	133.53	32.47	
72.00	-32.86	134.62	33.07	AMC 6
73.00	-31.86	135.73	33.66	
74.00	-30.86	136.85	34.24	SBS 6
75.00	-29.86	137.99	34.81	
76.00	-28.86	139.15	35.37	COMSTAR 1&2
77.00	-27.86	140.33	35.92	
78.00	-26.86	141.53	36.45	ANC 5
79.00	-25.86	142.75	36.97	
80.00	-24.86	143.99	37.48	
81.00	-23.86	145.25	37.97	
82.00	-22.86	146.52	38.45	NIMIG 2
83.00	-21.86	147.82	38.91	AMC 9
84.00	-20.86	149.13	39.36	BRASILSAT B3
85.00	-19.86	150.46	39.78	XM 3
86.00	-18.86	151.82	40.20	
87.00	-17.86	153.19	40.59	AMC 3
88.00	-16.86	154.57	40.97	
89.00	-15.86	155.98	41.33	
90.00	-14.86	157.40	41.66	
91.00	-13.86	158.84	41.98	
92.00	-12.86	160.30	42.28	BRASILSAT B4
93.00	-11.86	161.77	42.56	INTELSAT 6
94.00	-10.86	163.25	42.82	
95.00	-9.86	164.75	43.06	
96.00	-8.86	166.26	43.27	
97.00	-7.86	167.78	43.47	INTELSAT 5
98.00	-6.86	169.31	43.64	
99.00	-5.86	170.86	43.79	GALAXY 4R
100.00	-4.86	172.41	43.91	
101.00	-3.86	173.96	44.01	
102.00	-2.86	175.52	44.09	
103.00	-1.86	177.09	44.15	AMC 1
104.00	-.86	178.65	44.18	
105.00	.14	180.22	44.19	AMC 2
106.00	1.14	181.79	44.17	
107.00	2.14	183.36	44.13	ANIK F1
108.00	3.14	184.92	44.07	
109.00	4.14	186.48	43.99	
110.00	5.14	188.04	43.88	ECHOSTAR 6
111.00	6.14	189.58	43.75	ANIK F2
112.00	7.14	191.12	43.59	
113.00	8.14	192.65	43.41	SOLIDARIDAD 2
114.00	9.14	194.17	43.21	
115.00	10.14	195.68	42.99	
116.00	11.14	197.17	42.75	SATMEX 5

117.00	12.14	198.65	42.49
118.00	13.14	200.12	42.20

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SATELLITE LONGITUDE	LONG DIFF	AZIMUTH	ELEV ANGLE	SATELLITE NAME
119.00	14.14	201.57	41.90	ECHOSTAR 7
120.00	15.14	203.00	41.57	
121.00	16.14	204.42	41.23	ECHOSTAR 9
122.00	17.14	205.82	40.86	
123.00	18.14	207.21	40.48	GALAXY 10R
124.00	19.14	208.57	40.08	
125.00	20.14	209.92	39.66	GALAXY 12
126.00	21.14	211.25	39.23	
127.00	22.14	212.55	38.78	
128.00	23.14	213.84	38.31	
129.00	24.14	215.11	37.83	INTELSAT 7
130.00	25.14	216.37	37.34	
131.00	26.14	217.60	36.83	AMC 11
132.00	27.14	218.81	36.30	
133.00	28.14	220.00	35.76	GALAXY 1
134.00	29.14	221.18	35.21	
135.00	30.14	222.33	34.65	AMC 10
136.00	31.14	223.47	34.08	
137.00	32.14	224.59	33.49	AMC 7
138.00	33.14	225.69	32.90	
139.00	34.14	226.77	32.29	AMC 8
140.00	35.14	227.84	31.68	
141.00	36.14	228.89	31.05	
142.00	37.14	229.92	30.42	
143.00	38.14	230.93	29.77	
144.00	39.14	231.93	29.12	ECHOSTAR 1,2

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AZIMUTH	HORIZON	DISC	HORIZON	4GHZ COORD	6 GHZ	RAIN4	RAIN6
DEGREES	ANGLE	ANGLE	GAIN DBI	DISTANCE	DISTANCE	SCATTER	SCATTER
	DEGREES	DEGREES		KM	KM	KM	KM
5.	1.0	130.1	-10.0	214.6	107.4	131.8	183.4
10.	.3	125.3	-10.0	214.6	107.4	131.8	183.4
15.	.3	120.5	-10.0	214.6	107.4	131.8	183.4
20.	.0	115.7	-10.0	214.6	107.4	131.8	183.4
25.	.0	110.9	-10.0	214.6	107.4	131.8	183.4
30.	.0	106.1	-10.0	214.6	107.4	131.8	183.4
35.	.0	101.3	-10.0	214.6	107.4	131.8	183.4
40.	.0	96.6	-10.0	214.6	107.4	131.8	183.4
45.	.3	91.6	-10.0	214.6	107.4	131.8	183.4
50.	.3	86.9	-10.0	214.6	107.4	131.8	183.4
55.	.3	82.2	-10.0	214.6	107.4	131.8	183.4
60.	.3	77.6	-10.0	214.6	107.4	131.8	183.4
65.	.4	73.0	-10.0	214.6	107.4	131.8	183.4
70.	.7	68.2	-10.0	214.6	107.4	131.8	183.4
75.	.7	63.8	-10.0	214.6	107.4	131.8	183.4
80.	.7	59.5	-10.0	214.6	107.4	131.8	183.4
85.	.8	55.1	-10.0	214.6	107.4	131.8	183.4
90.	.8	51.1	-10.0	214.6	107.4	131.8	183.4
95.	.8	47.2	-9.8	215.5	107.8	131.8	183.4
100.	.8	43.5	-9.0	221.1	110.6	131.8	183.4
105.	1.0	39.9	-8.0	227.1	113.6	131.8	183.4
110.	1.0	36.9	-7.2	232.8	116.5	131.8	183.4
115.	2.1	33.2	-6.0	240.6	120.4	131.8	183.4
120.	2.1	31.1	-5.3	245.4	122.8	131.8	183.4
125.	2.1	29.8	-4.8	248.9	124.5	131.8	183.4
130.	2.1	29.2	-4.6	250.5	125.3	131.8	183.4
135.	2.1	29.3	-4.7	250.0	125.1	131.8	183.4
140.	2.1	30.3	-5.0	247.5	123.9	131.8	183.4
145.	2.1	32.0	-5.6	243.4	121.8	131.8	183.4
150.	2.1	34.2	-6.4	238.2	119.2	131.8	183.4
155.	2.1	36.6	-7.1	233.2	116.7	131.8	183.4
160.	2.1	38.6	-7.7	229.4	114.8	131.8	183.4
165.	2.1	40.2	-8.1	226.6	113.4	131.8	183.4
170.	1.6	41.7	-8.5	223.9	112.0	131.8	183.4
175.	1.6	42.4	-8.7	222.9	111.5	131.8	183.4
180.	1.6	42.6	-8.7	222.5	111.3	131.8	183.4
185.	1.6	42.4	-8.7	222.9	111.5	131.8	183.4
190.	1.2	42.1	-8.6	223.3	111.7	131.8	183.4
195.	1.2	41.1	-8.3	225.1	112.6	131.8	183.4
200.	1.2	39.5	-7.9	227.8	114.0	131.8	183.4
205.	1.2	37.5	-7.4	231.5	115.8	131.8	183.4
210.	1.2	35.1	-6.6	236.3	118.2	131.8	183.4
215.	1.2	32.5	-5.8	242.2	121.2	131.8	183.4
220.	1.2	30.3	-5.0	247.6	123.9	131.8	183.4

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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.	1.2	28.7	-4.5	251.7	125.9	131.8	183.4
230.	1.2	28.0	-4.2	253.7	127.0	131.8	183.4
235.	1.4	27.9	-4.1	254.0	127.1	131.8	183.4
240.	1.4	28.8	-4.5	251.4	125.8	131.8	183.4
245.	1.7	30.2	-5.0	247.7	123.9	131.8	183.4
250.	2.1	32.2	-5.7	242.9	121.5	131.8	183.4
255.	2.1	35.0	-6.6	236.5	118.3	131.8	183.4
260.	2.1	38.3	-7.6	230.0	115.1	131.8	183.4
265.	2.1	42.0	-8.6	223.6	111.9	131.8	183.4
270.	2.0	45.9	-9.6	217.3	108.7	131.8	183.4
275.	2.0	50.0	-10.0	214.6	107.4	131.8	183.4
280.	2.0	54.2	-10.0	214.6	107.4	131.8	183.4
285.	2.0	58.5	-10.0	214.6	107.4	131.8	183.4
290.	1.8	63.2	-10.0	214.6	107.4	131.8	183.4
295.	1.8	67.7	-10.0	214.6	107.4	131.8	183.4
300.	1.5	72.5	-10.0	214.6	107.4	131.8	183.4
305.	1.5	77.2	-10.0	214.6	107.4	131.8	183.4
310.	1.5	81.8	-10.0	214.6	107.4	131.8	183.4
315.	1.2	86.8	-10.0	214.6	107.4	131.8	183.4
320.	1.2	91.6	-10.0	214.6	107.4	131.8	183.4
325.	1.4	96.1	-10.0	214.6	107.4	131.8	183.4
330.	1.4	100.9	-10.0	214.6	107.4	131.8	183.4
335.	1.4	105.7	-10.0	214.6	107.4	131.8	183.4
340.	1.0	110.9	-10.0	214.6	107.4	131.8	183.4
345.	1.0	115.8	-10.0	214.6	107.4	131.8	183.4
350.	1.0	120.6	-10.0	214.6	107.4	131.8	183.4
355.	1.0	125.5	-10.0	214.6	107.4	131.8	183.4
360.	1.0	130.3	-10.0	214.6	107.4	131.8	183.4

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