

### **Changes Contained in This Amendment**

Changes to the application are as follows:

1. Section III-A, Item 2: Primary station has been updated.
2. Section III-A, Item 4: Coordinates has been changed to reflect the proposed location.
3. Section III-A, Item 5: ASRN has been updated.
4. Section III-A, Item 6: Site elevation has been updated.
5. Section III-A, Item 7: Tower height has been updated.
6. Section III-A, Item 8: Radiation center above ground has been updated.
7. Section III-A, Item 9: ERP has been updated.
8. Section III-A, Item 10: Transmit antenna has been updated.

### **Preclusion to LPFM Points**

The facility contemplated herein has been studied to ensure that no preclusion will occur to LPFM “sacred” points. Due to the location of the proposed amended transmitter site being within 39km of a Top 50 Spectrum Limited Market Grid, a Site Test is required. Exhibit 1-A is a Site Study showing that no LPFM “sacred” points within the Sacramento grid have been precluded. Furthermore, there are multiple LPFM opportunities at the proposed location on channels 237, 239, 291, and 297.

Therefore, the proposed facility does not preclude a single remaining LPFM opportunity at the specified transmitter site location.

**GRID TEST - Sacramento, CA**

**Yellow Highlighting** shows Co & 1<sup>st</sup> adj channels to the proposed facility.

Sacramento, CA

Latitude 38-33-20

Longitude 121-28-08

Grid Size 21 x 21

Micro FM 100 Watts at 30m HAAT

Co-Channel and 1st Adjacent Protected

2nd Adjacent Channel Not Protected

3rd Adjacent Channel Not Protected

I.F. Not Protected

TV Channel 6 Protected

CP Records Protected

APP Records Protected

FM Translators Protected

TV Channel 6 Translators/LP Protected

Auc83 FX App Records Not Protected

| Chan | Avail | Chan | Avail | Chan | Avail | Chan | Avail | Chan | Avail |
|------|-------|------|-------|------|-------|------|-------|------|-------|
| 200  | 0     | 220  | 39    | 240  | 0     | 260  | 0     | 280  | 0     |
| 201  | 0     | 221  | 182   | 241  | 0     | 261  | 0     | 281  | 0     |
| 202  | 0     | 222  | 0     | 242  | 0     | 262  | 0     | 282  | 0     |
| 203  | 27    | 223  | 0     | 243  | 383   | 263  | 0     | 283  | 0     |
| 204  | 0     | 224  | 0     | 244  | 0     | 264  | 0     | 284  | 441   |
| 205  | 0     | 225  | 147   | 245  | 0     | 265  | 0     | 285  | 0     |
| 206  | 0     | 226  | 25    | 246  | 0     | 266  | 0     | 286  | 0     |
| 207  | 0     | 227  | 107   | 247  | 104   | 267  | 0     | 287  | 0     |
| 208  | 0     | 228  | 0     | 248  | 0     | 268  | 0     | 288  | 0     |
| 209  | 0     | 229  | 0     | 249  | 0     | 269  | 0     | 289  | 47    |
| 210  | 0     | 230  | 0     | 250  | 0     | 270  | 0     | 290  | 0     |
| 211  | 0     | 231  | 19    | 251  | 37    | 271  | 0     | 291  | 151   |
| 212  | 0     | 232  | 24    | 252  | 0     | 272  | 0     | 292  | 0     |
| 213  | 0     | 233  | 0     | 253  | 0     | 273  | 0     | 293  | 0     |
| 214  | 0     | 234  | 0     | 254  | 0     | 274  | 0     | 294  | 0     |
| 215  | 0     | 235  | 0     | 255  | 225   | 275  | 108   | 295  | 214   |
| 216  | 0     | 236  | 14    | 256  | 6     | 276  | 201   | 296  | 3     |
| 217  | 0     | 237  | 0     | 257  | 0     | 277  | 0     | 297  | 0     |
| 218  | 0     | 238  | 0     | 258  | 0     | 278  | 0     | 298  | 0     |
| 219  | 0     | 239  | 154   | 259  | 0     | 279  | 0     | 299  | 0     |
|      |       |      |       |      |       |      |       | 300  | 0     |

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Total 2658

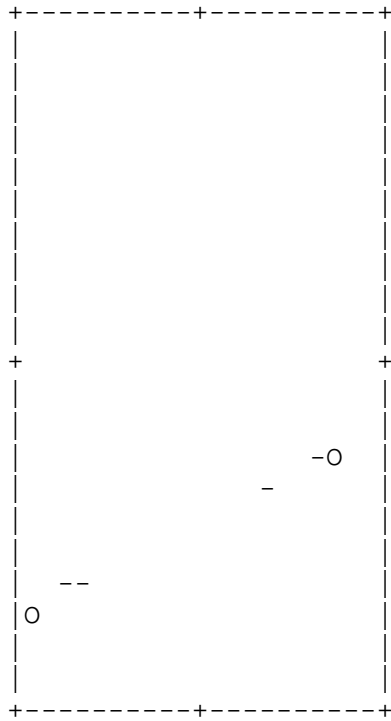
Total allotments, least preclusive spacing: 46

Total allotments, most preclusive spacing: 32

The diagram consists of a large rectangle with a dashed horizontal line across its middle. The top half of the rectangle contains a series of horizontal dashed lines of increasing length from left to right, forming a staircase shape. An 'O' is located at the bottom left of this top section. The bottom half of the rectangle contains a series of horizontal dashed lines of decreasing length from left to right, also forming a staircase shape. An 'O' is located at the bottom right of this bottom section. The entire diagram is enclosed in a dashed border with '+' signs at the corners.

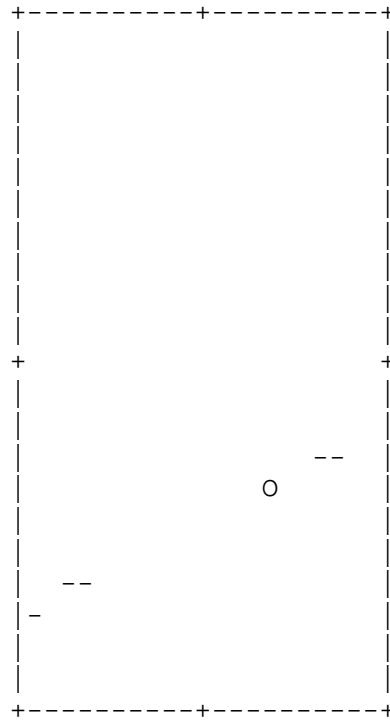
Point #285 at 38-34-20 121-31-08  
Point #001 at 38-23-20 121-18-08

Sacramento, CA  
 Latitude 38-33-20  
 Longitude 121-28-08  
 Least preclusive siting  
 Availability of Channel 256 (X)

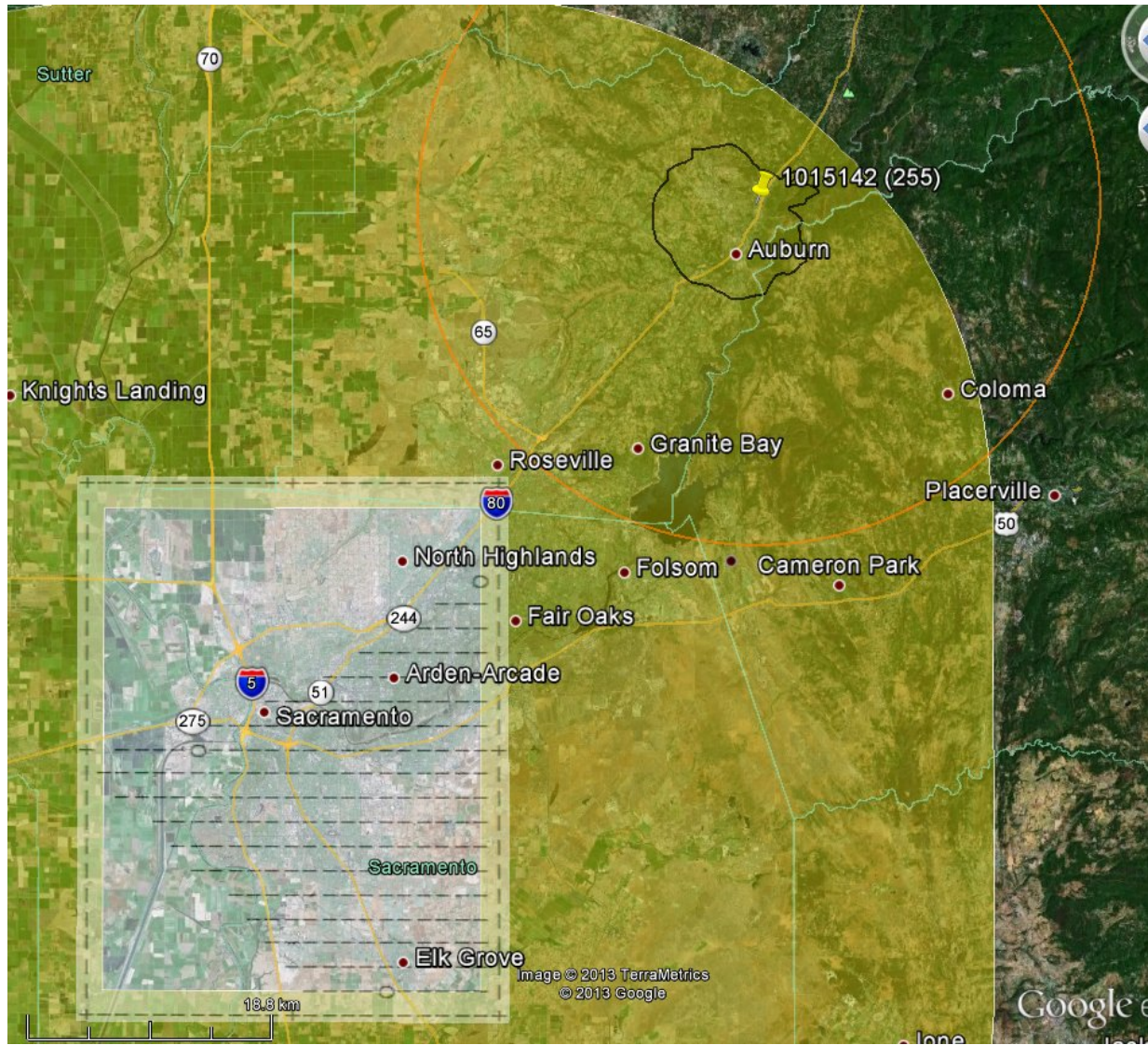


Point #423 at 38-25-20 121-38-08  
 Point #050 at 38-30-20 121-20-08

Sacramento, CA  
 Latitude 38-33-20  
 Longitude 121-28-08  
 Most preclusive siting  
 Availability of Channel 256 (X)



Point #133 at 38-29-20 121-24-08



12-radial HAAT is 139.7 m

60 dBu contour distance is 5.431 km

LPFM protected points for co-channel 255 are shown aligned to the Sacramento grid.

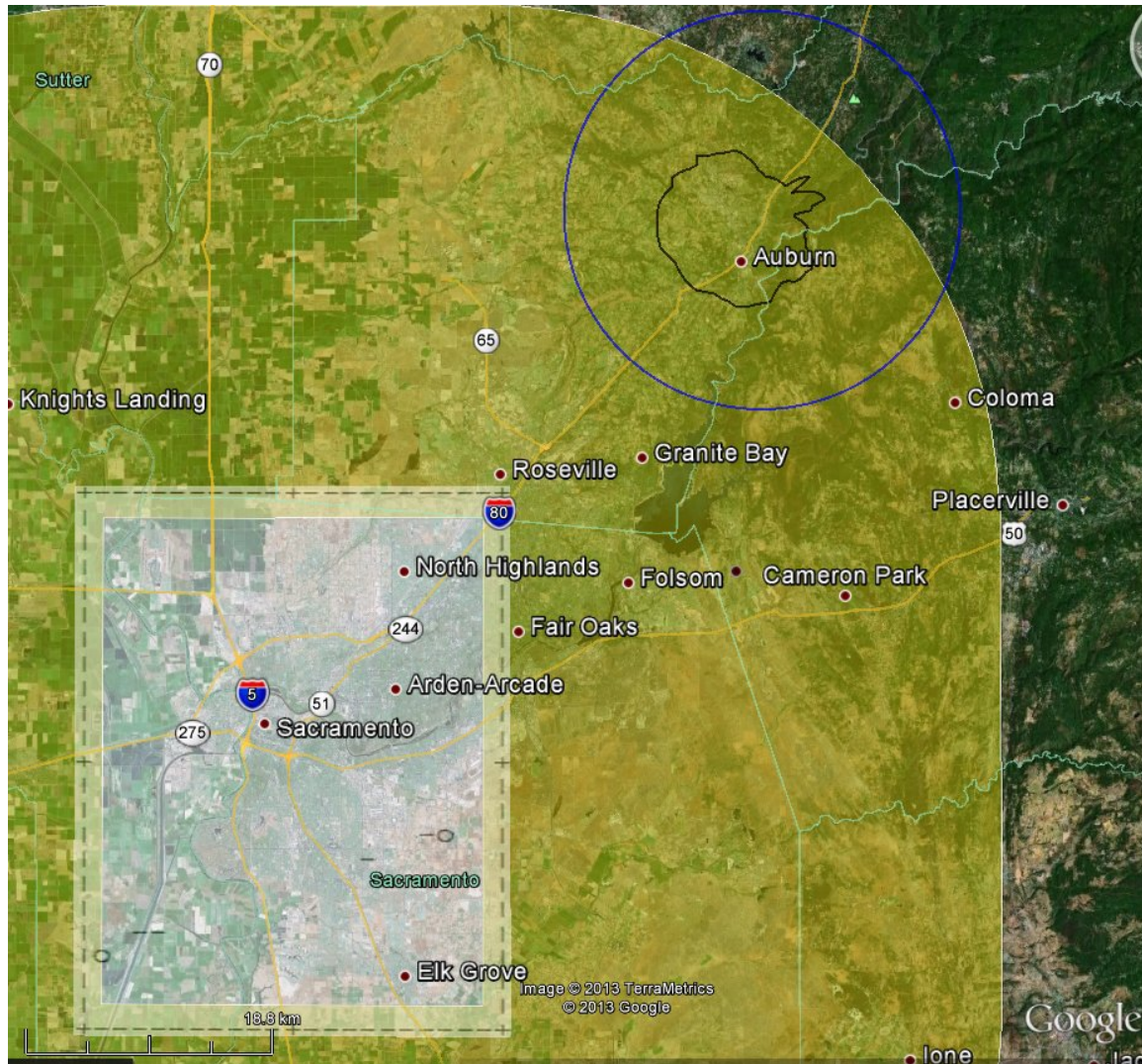
The yellow tack indicates the proposed transmitter location.

The black contour is the standard FCC F(50-50) 60dBu contour.

The orange circle contour indicates the minimum co-channel protection distance of 26 km to the proposed transmitter site (per 73.807). As can be seen, no LPFM points are within the minimum distance.

Therefore, the proposed location does not preclude any LPFM opportunities on channel 255.





12-radial HAAT is 139.7 m

60 dBu contour distance is 5.431 km

LPFM protected points for 1<sup>st</sup> adjacent channel 256 are shown aligned to Sacramento grid.

The yellow tack indicates the proposed transmitter location.

The black contour is the standard FCC F(50-50) 60dBu contour.

The blue circle contour indicates the minimum 1<sup>st</sup> adjacent channel protection distance of 15 km to the proposed transmitter site (per 73.807). As can be seen, no LPFM points are within the minimum distance.

Therefore, the proposed transmitter does not preclude any LPFM opportunities on channel 256.

**SITE TEST - Auburn, CA**

**Green highlighted channels** - indicate an LPFM opportunity is available from the proposed site

Sacramento, CA

Latitude 38-55-52

Longitude 121-03-28

Grid Size 21 x 21

Micro FM 100 Watts at 30m HAAT

Co-Channel and 1st Adjacent Protected

2nd Adjacent Channel Not Protected

3rd Adjacent Channel Not Protected

I.F. Not Protected

TV Channel 6 Protected

CP Records Protected

APP Records Protected

FM Translators Protected

TV Channel 6 Translators/LP Protected

Auc83 FX App Records Not Protected

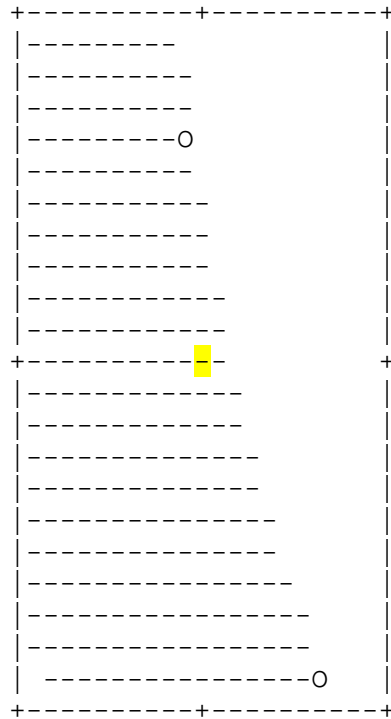
| Chan | Avail | Chan | Avail | Chan | Avail | Chan | Avail | Chan | Avail |
|------|-------|------|-------|------|-------|------|-------|------|-------|
| 200  | 0     | 220  | 0     | 240  | 0     | 260  | 0     | 280  | 0     |
| 201  | 0     | 221  | 0     | 241  | 0     | 261  | 0     | 281  | 0     |
| 202  | 0     | 222  | 0     | 242  | 0     | 262  | 0     | 282  | 0     |
| 203  | 0     | 223  | 0     | 243  | 215   | 263  | 0     | 283  | 0     |
| 204  | 0     | 224  | 0     | 244  | 0     | 264  | 0     | 284  | 77    |
| 205  | 0     | 225  | 0     | 245  | 0     | 265  | 0     | 285  | 0     |
| 206  | 0     | 226  | 0     | 246  | 0     | 266  | 0     | 286  | 0     |
| 207  | 0     | 227  | 0     | 247  | 85    | 267  | 0     | 287  | 0     |
| 208  | 0     | 228  | 0     | 248  | 6     | 268  | 178   | 288  | 5     |
| 209  | 0     | 229  | 0     | 249  | 6     | 269  | 0     | 289  | 2     |
| 210  | 0     | 230  | 0     | 250  | 57    | 270  | 0     | 290  | 77    |
| 211  | 0     | 231  | 0     | 251  | 120   | 271  | 0     | 291  | 372   |
| 212  | 0     | 232  | 0     | 252  | 0     | 272  | 0     | 292  | 0     |
| 213  | 0     | 233  | 0     | 253  | 0     | 273  | 0     | 293  | 0     |
| 214  | 0     | 234  | 0     | 254  | 0     | 274  | 0     | 294  | 0     |
| 215  | 0     | 235  | 0     | 255  | 201   | 275  | 2     | 295  | 1     |
| 216  | 0     | 236  | 150   | 256  | 9     | 276  | 5     | 296  | 23    |
| 217  | 0     | 237  | 269   | 257  | 0     | 277  | 0     | 297  | 327   |
| 218  | 0     | 238  | 105   | 258  | 0     | 278  | 0     | 298  | 94    |
| 219  | 0     | 239  | 270   | 259  | 0     | 279  | 0     | 299  | 0     |
|      |       |      |       |      |       |      |       | 300  | 0     |

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Total 2656

Total allotments, least preclusive spacing: 37

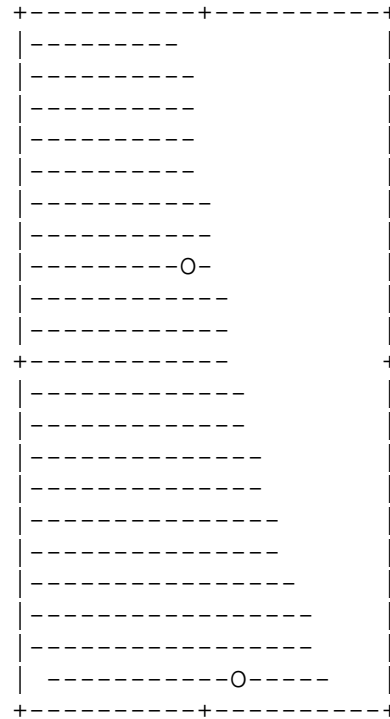
Total allotments, most preclusive spacing: 29

Sacramento, CA  
 Latitude 38-55-52  
 Longitude 121-03-28  
 Least preclusive siting  
 Availability of Channel 237 (X)



Point #064 at 38-45-52 120-56-28  
 Point #249 at 39-02-52 121-04-28

Sacramento, CA  
 Latitude 38-55-52  
 Longitude 121-03-28  
 Most preclusive siting  
 Availability of Channel 237 (X)



Point #245 at 38-58-52 121-04-28  
 Point #169 at 38-45-52 121-01-28



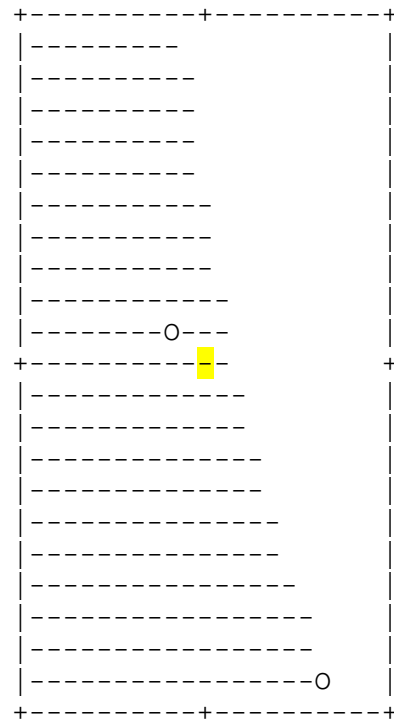
Sacramento, CA

Latitude 38-55-52

Longitude 121-03-28

Least preclusive siting

Availability of Channel 239 (X)



Point #064 at 38-45-52 120-56-28

Point #264 at 38-56-52 121-05-28

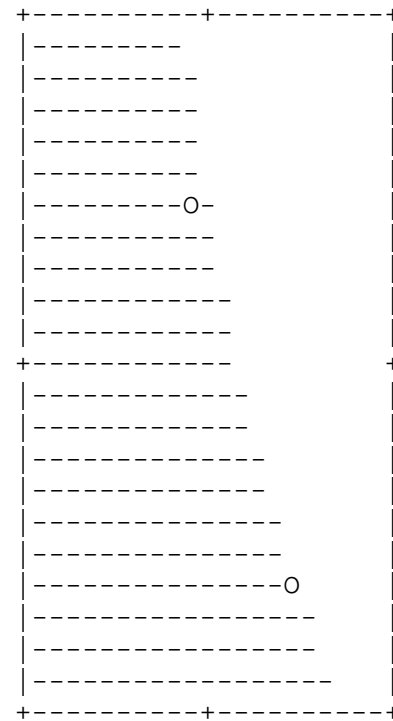
Sacramento, CA

Latitude 38-55-52

Longitude 121-03-28

Most preclusive siting

Availability of Channel 239 (X)



Point #109 at 38-48-52 120-58-28

Point #247 at 39-00-52 121-04-28

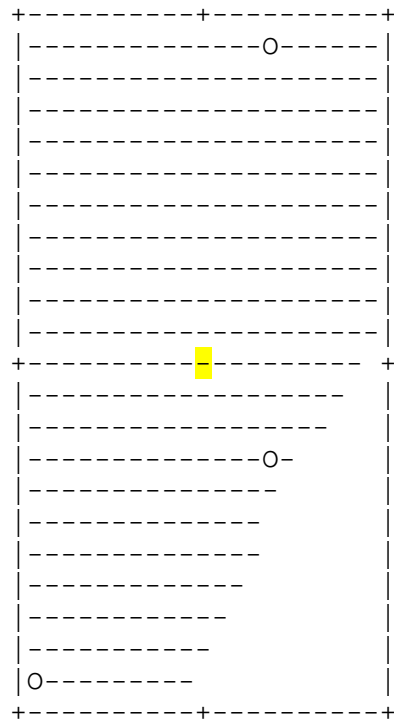
Sacramento, CA

Latitude 38-55-52

Longitude 121-03-28

Least preclusive siting

Availability of Channel 291 (X)



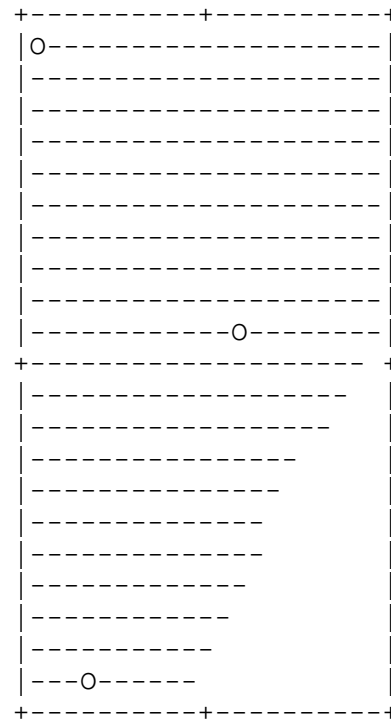
Sacramento, CA

Latitude 38-55-52

Longitude 121-03-28

Most preclusive siting

Availability of Channel 291 (X)



Point #421 at 38-45-52 121-13-28

Point #134 at 38-52-52 120-59-28

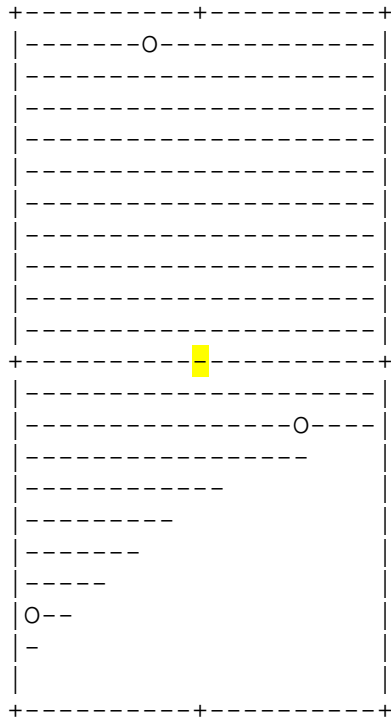
Point #147 at 39-05-52 120-59-28

Point #180 at 38-56-52 121-01-28

Point #358 at 38-45-52 121-10-28

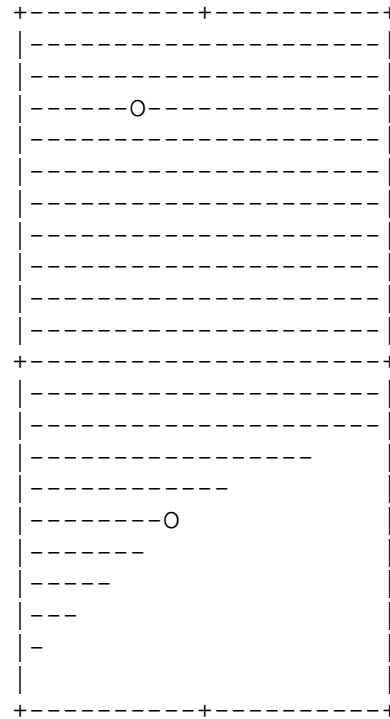
Point #441 at 39-05-52 121-13-28

Sacramento, CA  
Latitude 38-55-52  
Longitude 121-03-28  
Least preclusive siting  
Availability of Channel 297 (X)



Point #294 at 39-05-52 121-06-28  
Point #423 at 38-47-52 121-13-28  
Point #093 at 38-53-52 120-57-28

Sacramento, CA  
Latitude 38-55-52  
Longitude 121-03-28  
Most preclusive siting  
Availability of Channel 297 (X)



Point #313 at 39-03-52 121-07-28  
Point #258 at 38-50-52 121-05-28