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ENGINEERING REPORT

Solimar Beach, CA, Channel 258D FM Translator Application

EXHIBIT 1: LPFM PRECLUSION STUDY

Gold Coast Broadcasting, LLC ("Applicant") submits this technical minor amendment for its pending 1983 application for a new FM translator station at Solimar Beach, CA. The pending application file number is BNPFT-20030317GWG.

This filing includes an ERP reduction with a channel displacement from 257 to 258. This Exhibit 1 addresses only the LPFM Preclusion Study requirements of the technical amendment. (The other technical requirements of this amendment are address in a separate document of this on-line filing.)

LPFM PRECLUSION STUDY RESULTS

This Engineering Report demonstrates that this application meet the FCC's requirements for this Auction 83 FM translator pursuant to *Creation of a Low Power FM Service, Amendment of Service Rules and Eligibility Rules for FM Broadcast Translator Stations*, Fifth Order on Reconsideration and Sixth Report and Order, FCC 12-144 (re;. December 4, 2012) ("Fifth Order on Reconsideration"). Additionally, the FCC's LPFM spectrum availability program, http://www.fcc.gov/Bureaus/MB/Databases/source_code/lpfm6.20121206.zip ("LPFM6"), is used as support for this Engineering Report.

An LPFM Preclusion Study is required by this application (based on the location of the herein proposed transmitter site) to each of the following *Spectrum Limited* Arbitron Metro Markets:

Oxnard-Ventura ("Oxnard"), CA –

Mrkt # 119; 20 min. grid centered at N 34-11-51 W 119-10-34 (d,m,s; NAD 27);

Santa Barbara, CA –

Mrkt # 218; 20 min. grid centered at N 34-25-24 W 119-42-12 (d,m,s; NAD 27).

Note that there are no *Spectrum Available* Metro Markets located within 39 kilometers of the proposed transmitter site.

Metro Area Preclusion Study Results

Oxnard Spectrum Limited Metro Market

Figure 1, attached, is the LPFM6 output file for the Oxnard Metro Market with the study centered at the grid center.

From Figure 1 it is shown that zero channels are available within the 20-minute Grid for future LPFM on the co-channel and upper first adjacent channel of the herein proposed FM translator (channels 258 and 259).

From Figure 1 it is also shown that zero channels are available within 15 kilometers of the proposed transmitter site for future LPFM on the lower first-adjacent channel (257). (Pursuant to Section 73.807c, since the proposed 60 dBu F50,50 service contour extends only 7.3 kilometers at its greatest distance, the spacing requirement from a future first adjacent-channel LPFM must be separated by 15 km.) The nearest available LPFM channel/point for channel 257 is at N 34-16-51 W 119-18-34 and is located 18.4 km from the proposed transmitter site.

As required by the Fifth Order on Reconsideration, this FM translator will not preclude the future use of a LPFM application from a potential LPFM channel/point located within the 20-minute Oxnard Grid.

Santa Barbara Spectrum Limited Metro Market

Figure 2, attached, is the LPFM6 output file for the Santa Barbara Metro Market with the study centered at the grid center.

From Figure 2 it is shown that zero channels are available within the 20-minute Grid for future LPFM on the first adjacent channels of the herein proposed FM translator (channels 257 and 259).

From Figure 2 it is also shown that zero channels are available within 26 kilometers of the proposed transmitter site for future LPFM on the same channel as the herein proposed FM translator. (Pursuant to Section 73.807c, since the proposed 60 dBu F50,50 service contour extends only 7.3 kilometers at its greatest distance, the

spacing requirement from a future co-channel LPFM must be separated by 26 km.) The nearest available LPFM channel/point for channel 258 is at N 34-25-24 W 119 38 12 and is located 31.2 km from the proposed transmitter site.

As required by the Fifth Order on Reconsideration, this FM translator will not preclude the future use of a LPFM application from a potential LPFM channel/point located within the 20-minute Santa Barbara Grid.

Transmitter Site Test Study Results

This study proposes a site that is not located within a Top-50 Spectrum Limited Market and is generally not required. A *Transmitter Site Test* was made out of an abundance of caution and is submitted below showing that the study passes the test.

Figure 3, attached, is the complete LPFM6 output file for a study centered at the herein proposed translator site. From this site, the center location is shown to be available for future LPFM on channels 222, 227, 231, 238, 246, 250, 255, 257, 262, 266, 267, 272, 273, 281 and 286. Therefore, since at least one channel exists for future LPFM at the proposed transmitter site, the transmitter site test for this application is successfully passed.

FIGURE 1 (11 Pages)

Oxnard, CA

Latitude 34-11-51

Longitude 119-10-34

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	146
202	0	222	24	242	0	262	24	282	23
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	0	245	0	265	0	285	0
206	0	226	0	246	24	266	23	286	23
207	0	227	150	247	0	267	59	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	152	251	0	271	3	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	0	273	55	293	0
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	215	276	0	296	0
217	0	237	0	257	156	277	0	297	0
218	0	238	24	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	10

Total 1111

Total allotments, least preclusive spacing: 23

Total allotments, most preclusive spacing: 17

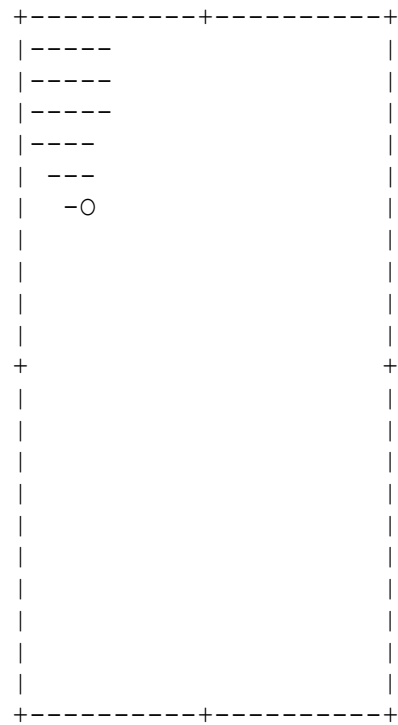
Oxnard, CA

Latitude 34-11-51

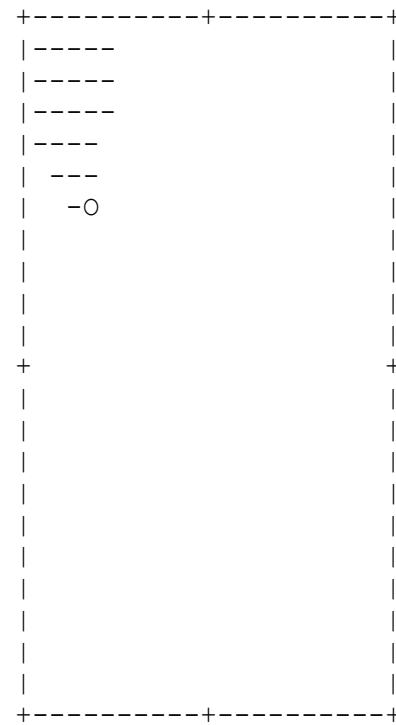
Oxnard, CA

Latitude 34-11-51

Longitude 119-10-34
Least preclusive siting
Availability of Channel 222 (X)

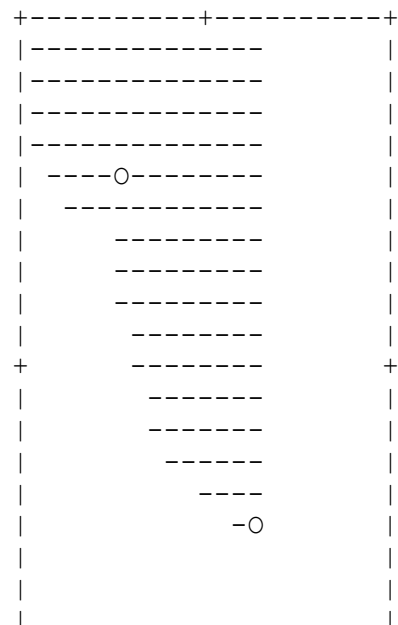


Longitude 119-10-34
Most preclusive siting
Availability of Channel 222 (X)



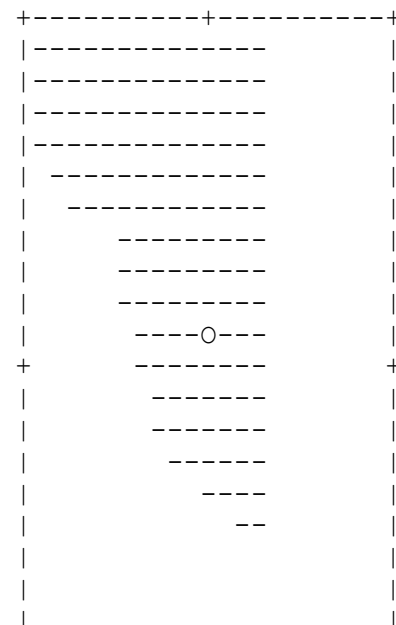
Point #373 at 34-16-51 119-17-34
Oxnard, CA

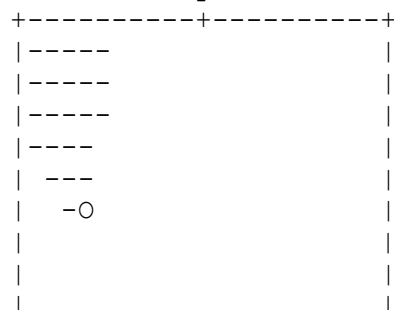
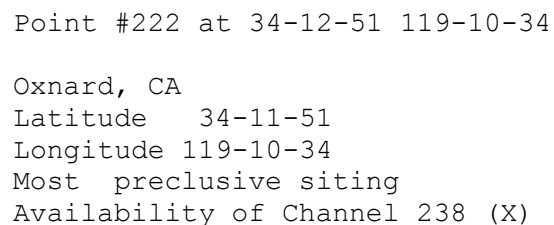
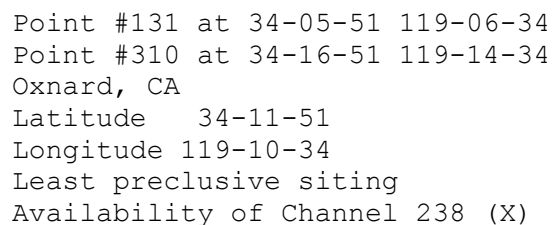
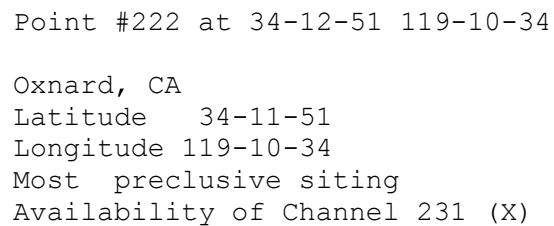
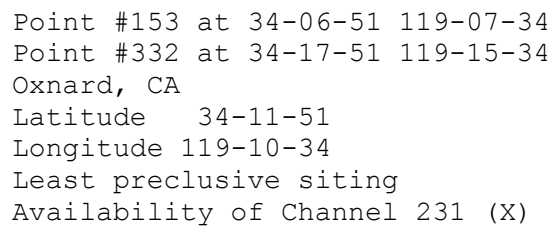
Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 227 (X)

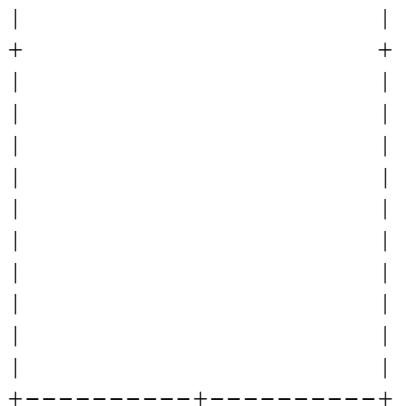


Point #373 at 34-16-51 119-17-34
Oxnard, CA

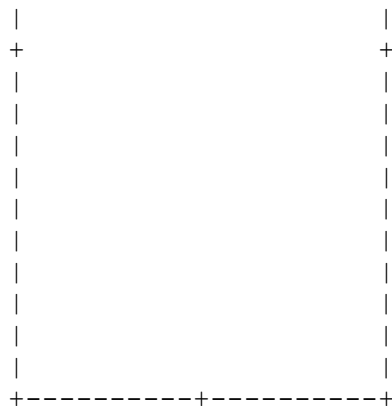
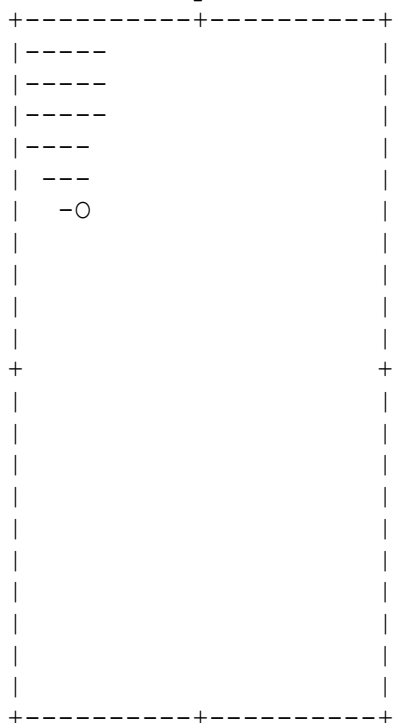
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 227 (X)



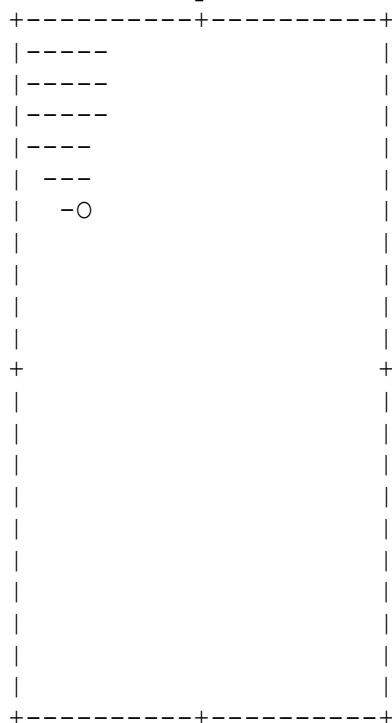




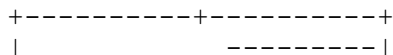
Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 246 (X)



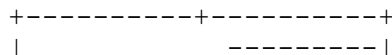
Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 246 (X)

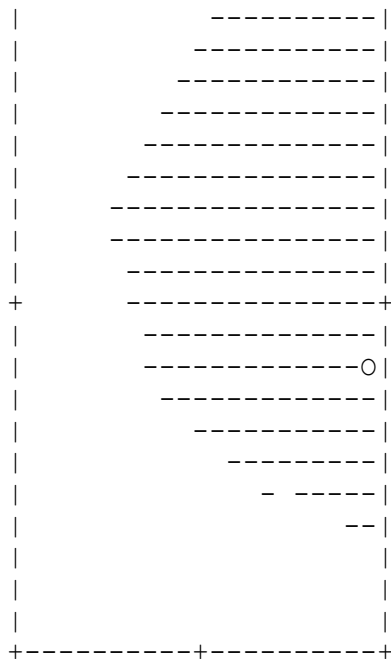
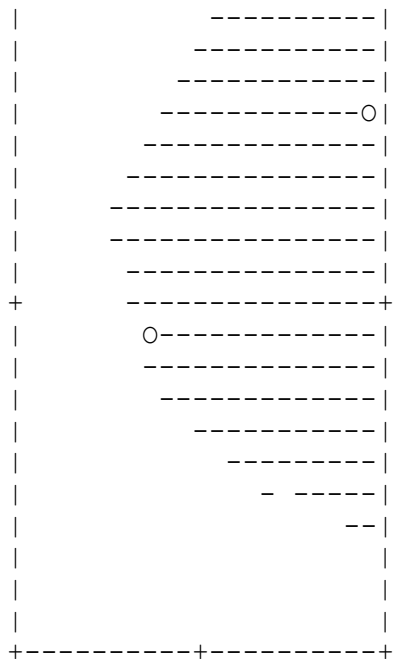


Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 256 (X)



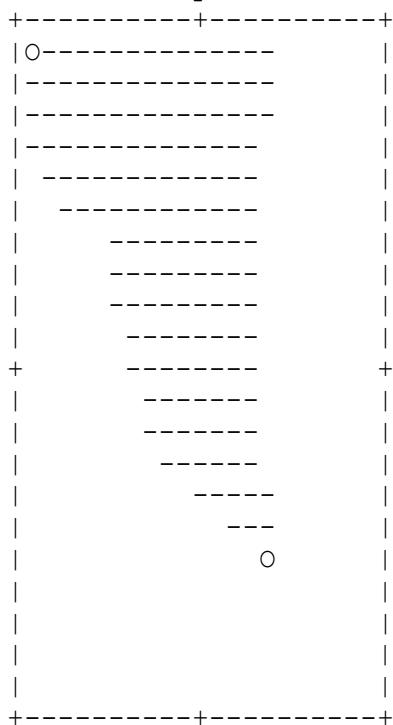
Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 256 (X)





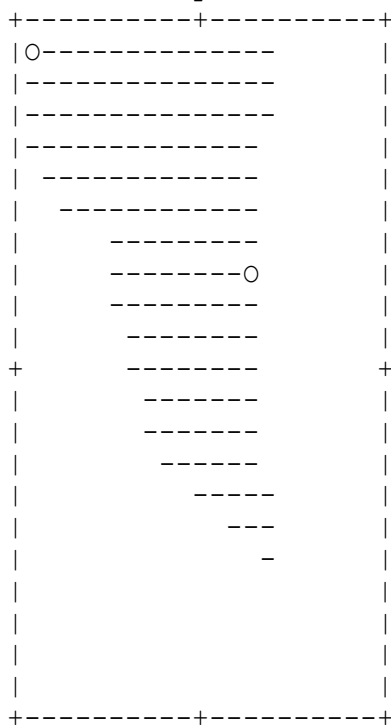
Point #283 at 34-10-51 119-13-34
 Point #017 at 34-17-51 119-00-34
 Oxnard, CA

Latitude 34-11-51
 Longitude 119-10-34
 Least preclusive siting
 Availability of Channel 257 (X)

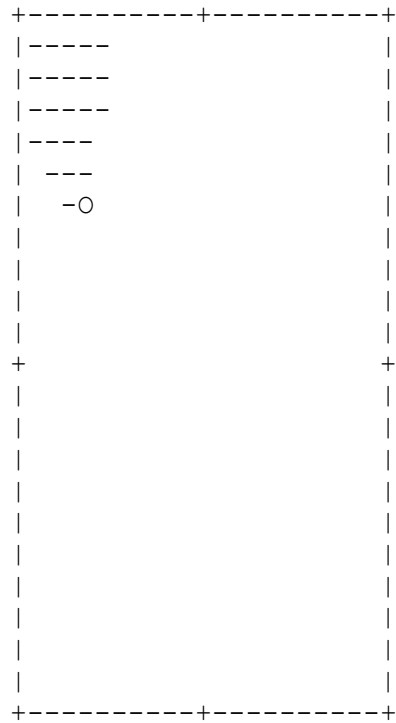


Point #009 at 34-09-51 119-00-34

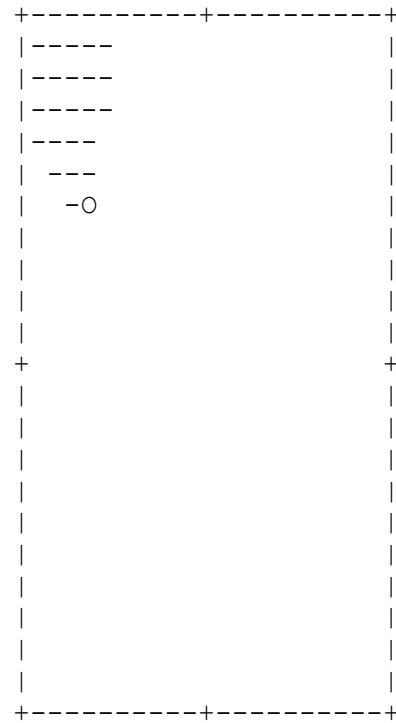
Oxnard, CA
 Latitude 34-11-51
 Longitude 119-10-34
 Most preclusive siting
 Availability of Channel 257 (X)



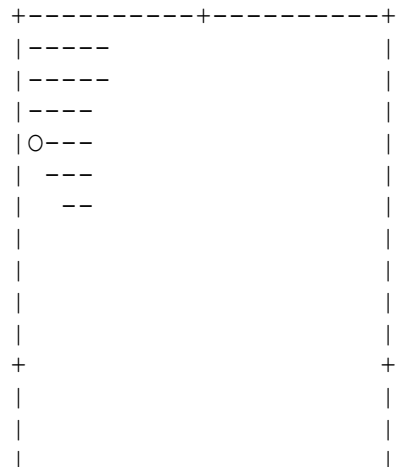

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Latitude      34-11-51
Longitude     119-10-34
Least preclusive siting
Availability of Channel 262 (X)
```



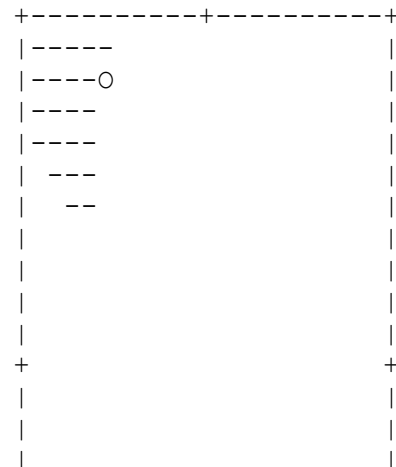
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 262 (X)

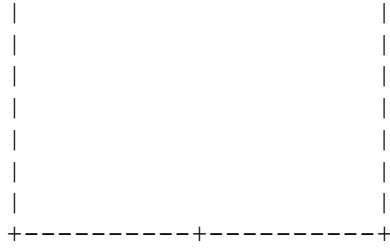


Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 266 (X)

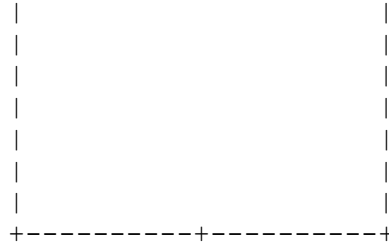
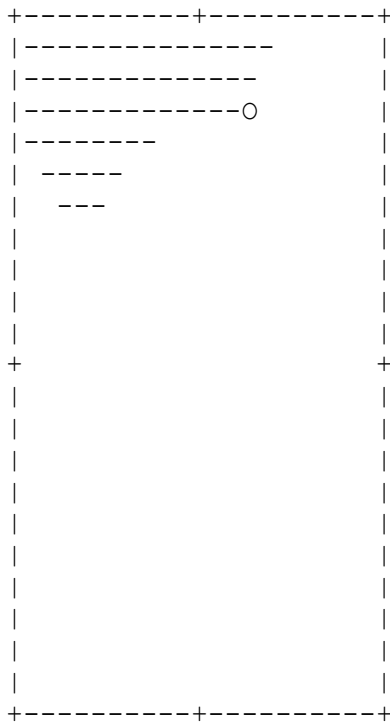


Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 266 (X)

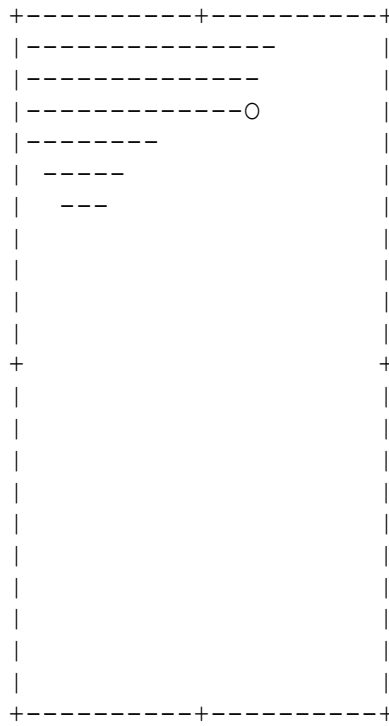




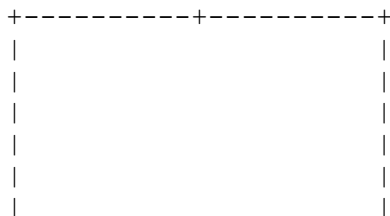
Point #438 at 34-18-51 119-20-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 267 (X)



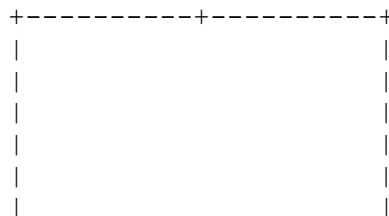
Point #356 at 34-20-51 119-16-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 267 (X)

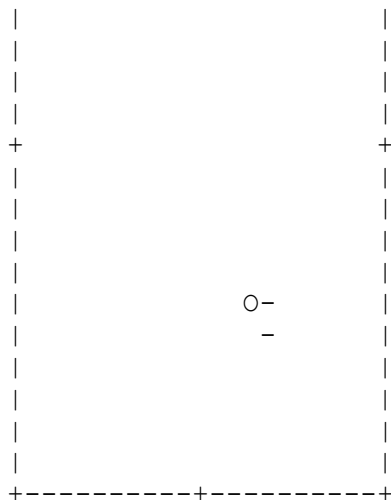
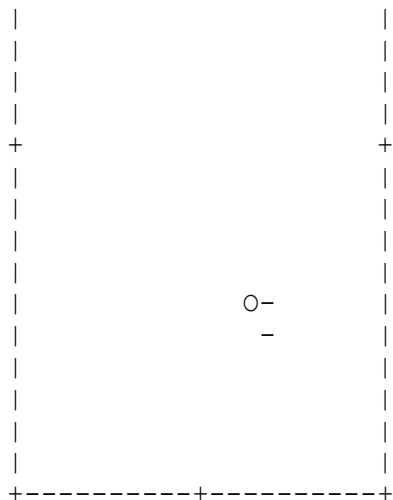


Point #166 at 34-19-51 119-07-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 271 (X)

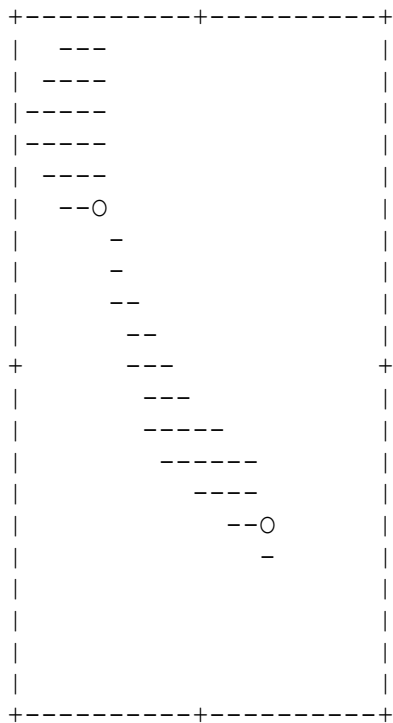


Point #166 at 34-19-51 119-07-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 271 (X)

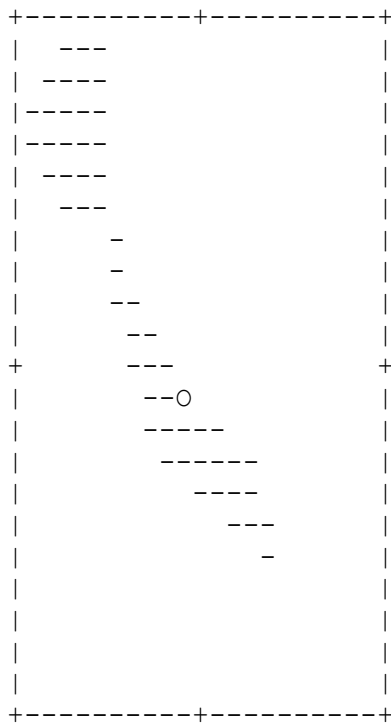




Point #153 at 34-06-51 119-07-34
 Oxnard, CA
 Latitude 34-11-51
 Longitude 119-10-34
 Least preclusive siting
 Availability of Channel 273 (X)



Point #153 at 34-06-51 119-07-34
 Oxnard, CA
 Latitude 34-11-51
 Longitude 119-10-34
 Most preclusive siting
 Availability of Channel 273 (X)



Point #132 at 34-06-51 119-06-34
 Point #352 at 34-16-51 119-16-34
 Oxnard, CA
 Latitude 34-11-51
 Longitude 119-10-34

Point #241 at 34-10-51 119-11-34
 Oxnard, CA
 Latitude 34-11-51
 Longitude 119-10-34

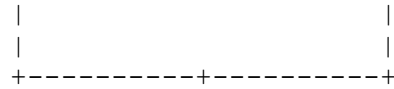
The diagram shows a rectangular grid defined by dashed lines. The grid is composed of 10 horizontal rows and 10 vertical columns. A small circle is located at the center of the grid, specifically at the intersection of the 5th horizontal row and the 5th vertical column. The grid is bounded by a dashed line on the top, bottom, left, and right. There are small '+' symbols at the corners of the grid: top-left, top-right, bottom-left, and bottom-right.

Latitude 34-11-51
Longitude 119-10-34
Least preclusive siting
Availability of Channel 282 (X)

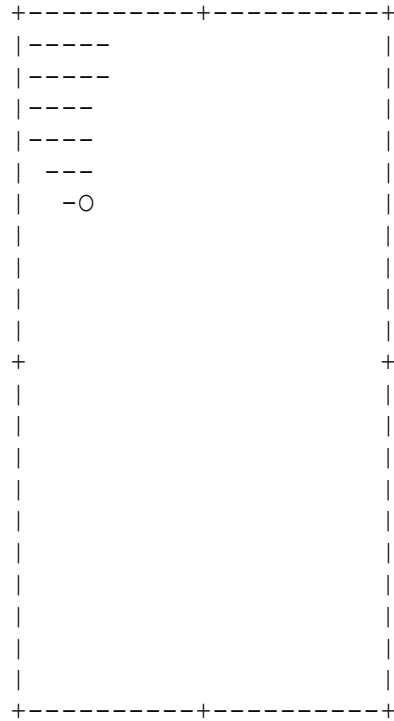
A diagram of a rectangular box with dashed lines. The box is defined by a top dashed line, a bottom dashed line, and two vertical dashed lines on the sides. A small circle is located in the top-left corner of the box, near the top-left corner. The circle is positioned such that its right side is near the left vertical dashed line and its bottom side is near the top horizontal dashed line. The circle is drawn with a solid line.

Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 282 (X)

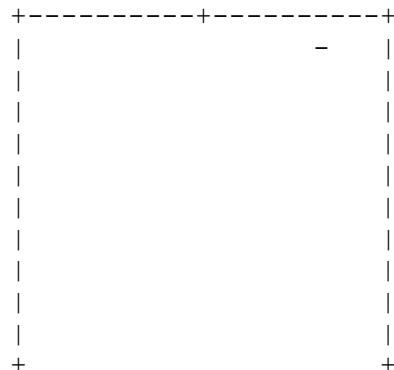
Diagram illustrating a rectangular box with dashed lines and tick marks. The box is defined by dashed lines on the top, right, and bottom edges. The left edge is marked with tick marks at the corners and four intermediate points. The top edge has tick marks at the corners. The bottom edge has tick marks at the corners. Inside the box, there are four horizontal dashed lines corresponding to the four intermediate tick marks on the left. The bottom-most dashed line is labeled $-O$.

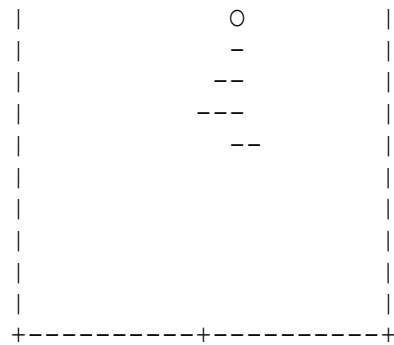
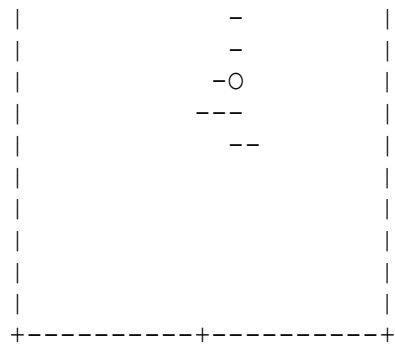


Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 286 (X)



Point #373 at 34-16-51 119-17-34
Oxnard, CA
Latitude 34-11-51
Longitude 119-10-34
Most preclusive siting
Availability of Channel 300 (X)





Point #084 at 34-21-51 119-03-34
Point #176 at 34-08-51 119-08-34

Point #178 at 34-10-51 119-08-34

{End of Figure 1}

FIGURE 2 (13 Pages)

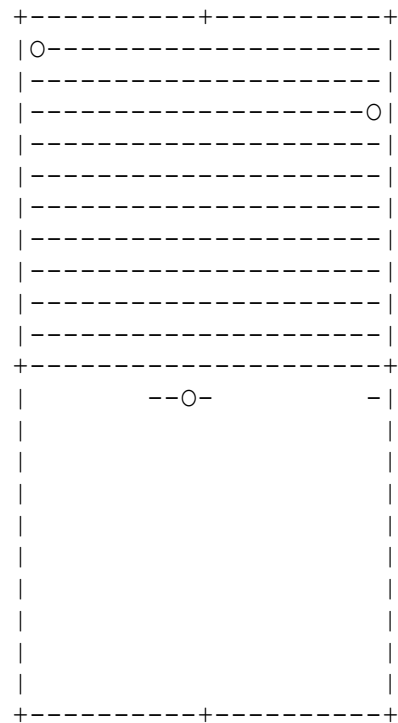
Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Grid Size 21 x 21
 Micro FM 100 Watts at 30m HAAT
 Co-Channel and 1st Adjacent Protected
 2nd Adjacent Channel Not Protected
 3rd Adjacent Channel Not Protected
 I.F. Not Protected
 TV Channel 6 Protected
 CP Records Protected
 APP Records Protected
 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	13
202	0	222	236	242	80	262	13	282	114
203	0	223	235	243	69	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	0	245	51	265	0	285	0
206	0	226	0	246	236	266	236	286	13
207	0	227	8	247	0	267	235	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	236	270	0	290	0
211	0	231	236	251	0	271	0	291	0
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	9
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	0	257	0	277	0	297	0
218	0	238	114	258	205	278	0	298	0
219	0	239	0	259	0	279	1	299	0
								300	0

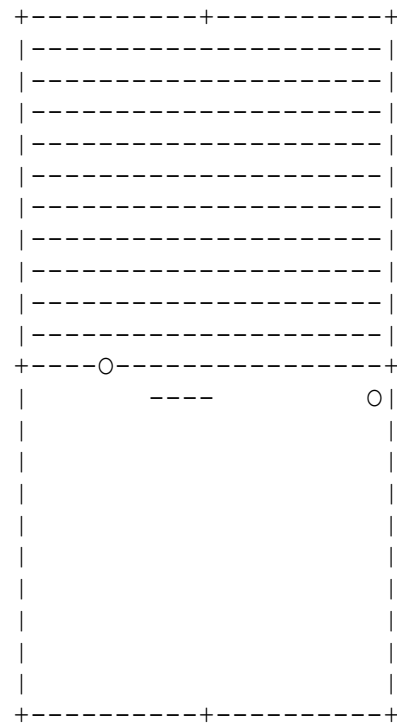
Total	2340								

Total allotments, least preclusive spacing: 37
 Total allotments, most preclusive spacing: 22
 Santa Barbara, CA Santa Barbara, CA
 Latitude 34-25-24 Latitude 34-25-24

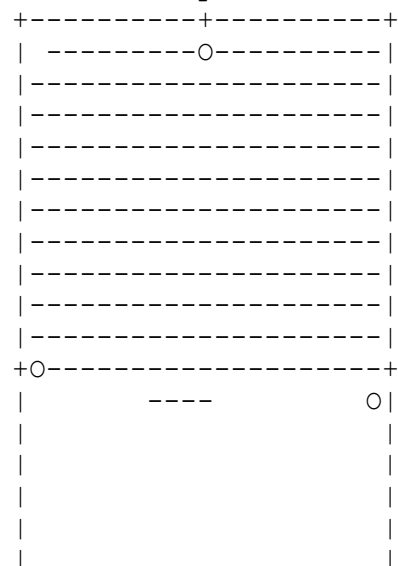
Longitude 119-42-12
Least preclusive siting
Availability of Channel 222 (X)



Longitude 119-42-12
Most preclusive siting
Availability of Channel 222 (X)

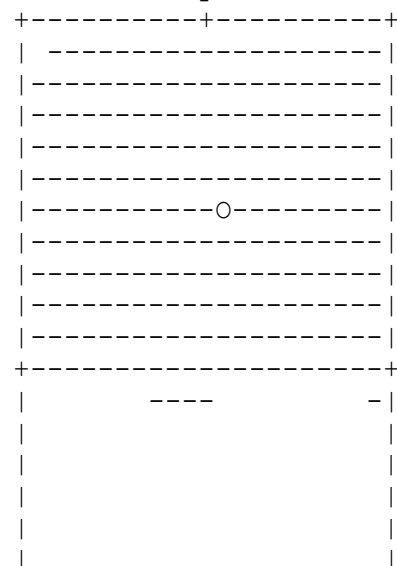


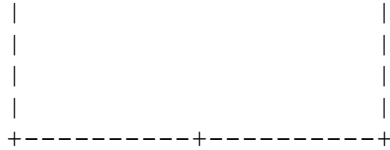
Point #441 at 34-35-24 119-52-12
Point #241 at 34-24-24 119-43-12
Point #019 at 34-33-24 119-32-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Least preclusive siting
Availability of Channel 223 (X)



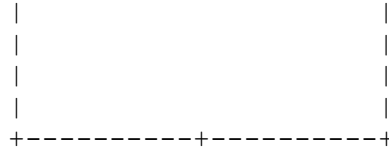
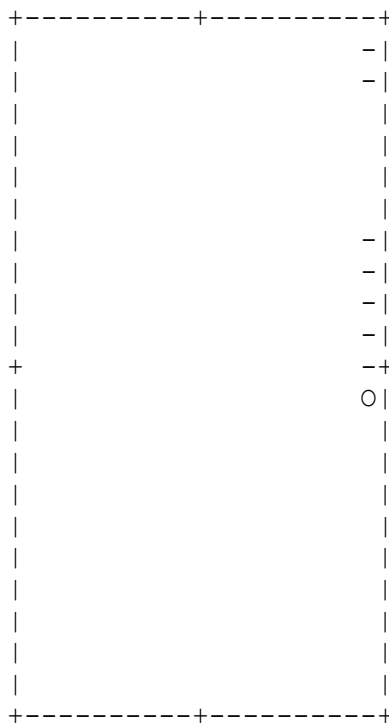
Point #347 at 34-25-24 119-48-12
Point #010 at 34-24-24 119-32-12

Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 223 (X)

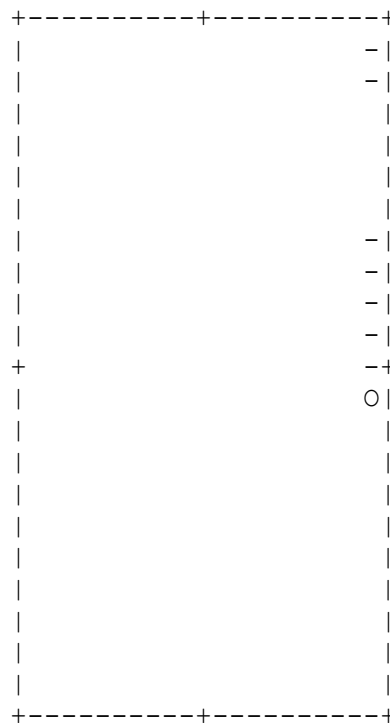




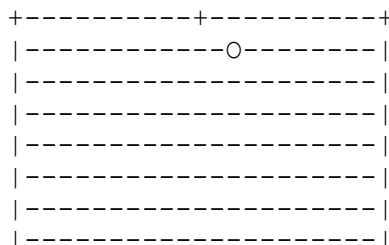
Point #010 at 34-24-24 119-32-12
Point #431 at 34-25-24 119-52-12
Point #231 at 34-35-24 119-42-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Least preclusive siting
Availability of Channel 227 (X)



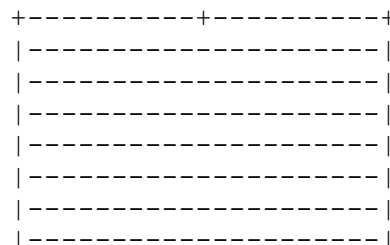
Point #205 at 34-30-24 119-41-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 227 (X)

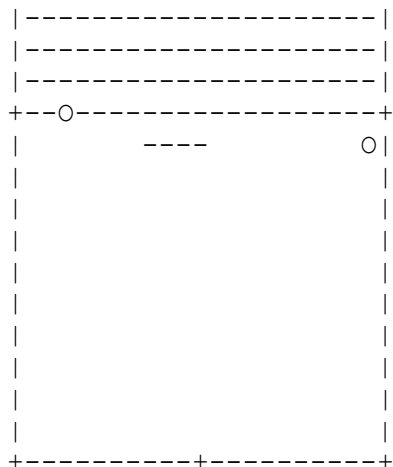


Point #010 at 34-24-24 119-32-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Least preclusive siting
Availability of Channel 231 (X)

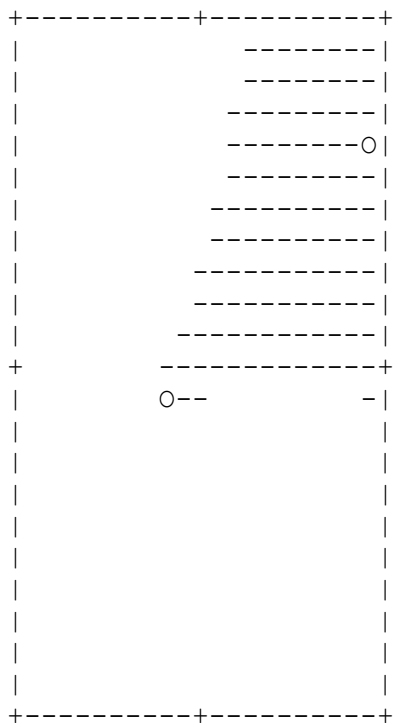


Point #010 at 34-24-24 119-32-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 231 (X)

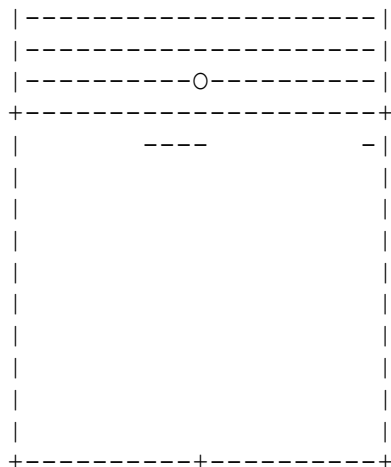




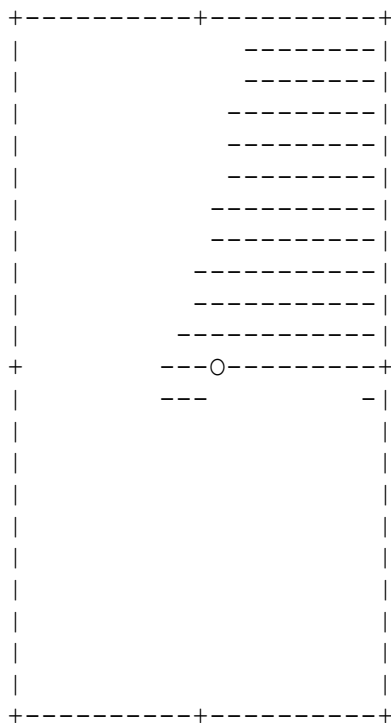
Point #010 at 34-24-24 119-32-12
 Point #189 at 34-35-24 119-40-12
 Point #389 at 34-25-24 119-50-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 238 (X)



Point #262 at 34-24-24 119-44-12
 Point #018 at 34-32-24 119-32-12
 Santa Barbara, CA
 Latitude 34-25-24

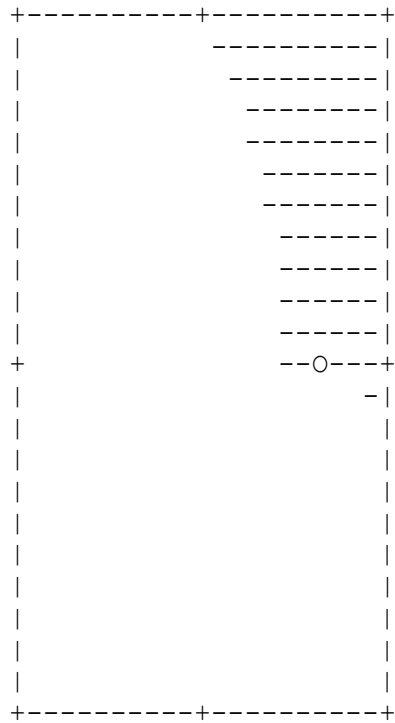


Point #222 at 34-26-24 119-42-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 238 (X)

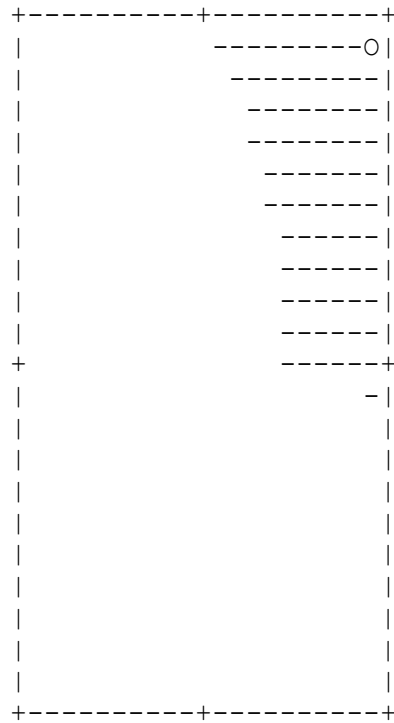


Point #200 at 34-25-24 119-41-12
 Santa Barbara, CA
 Latitude 34-25-24

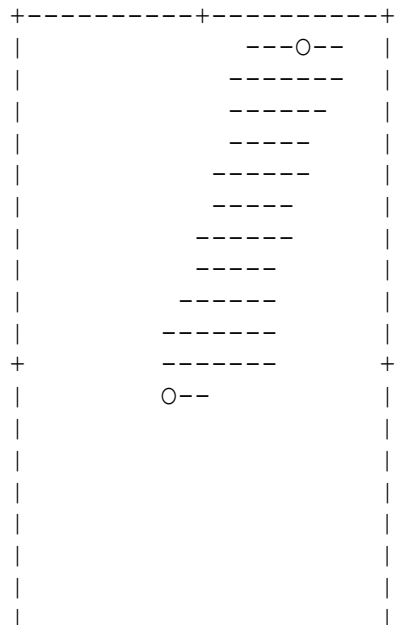
Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 242 (X)



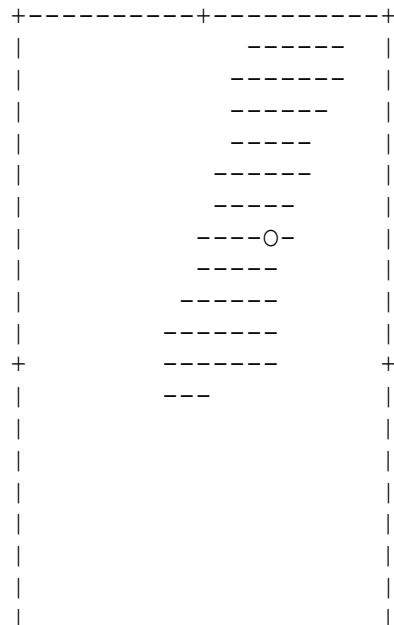
Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 242 (X)



Point #074 at 34-25-24 119-35-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 243 (X)



Point #021 at 34-35-24 119-32-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 243 (X)



Point #141 at 34-29-24 119-38-12

Santa Barbara, CA

Latitude 34-25-24

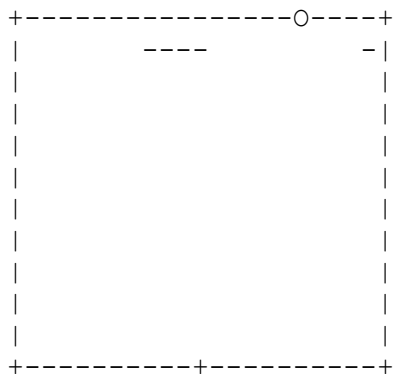
Longitude 119-42-12

Most preclusive siting

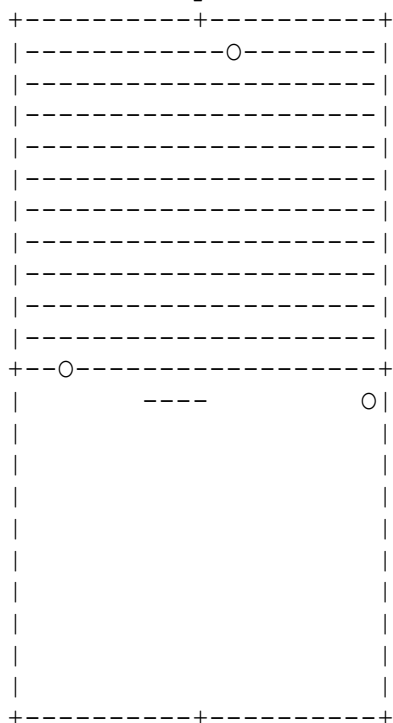
Availability of Channel 245 (X)

Point #205 at 34-30-24 119-41-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 246 (X)

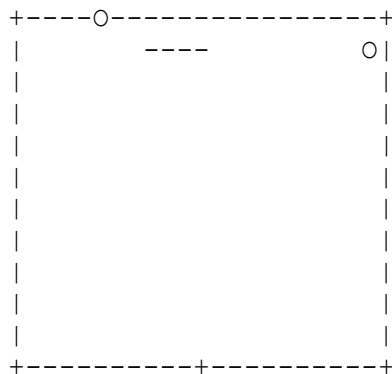
[illegible]



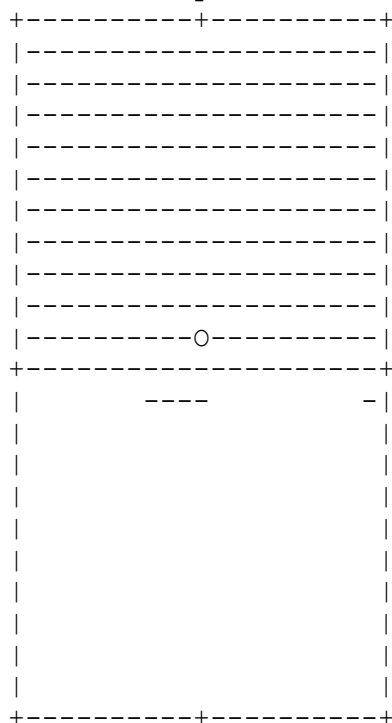
Point #441 at 34-35-24 119-52-12
 Point #095 at 34-25-24 119-36-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 250 (X)



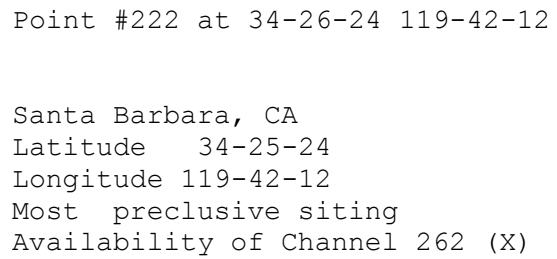
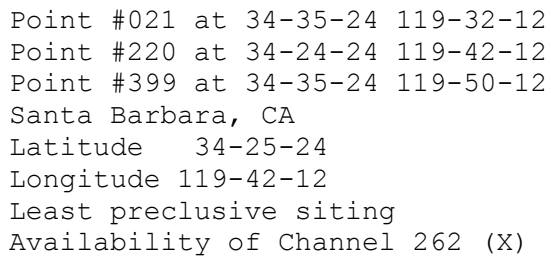
Point #010 at 34-24-24 119-32-12
 Point #189 at 34-35-24 119-40-12
 Point #389 at 34-25-24 119-50-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 258 (X)



Point #347 at 34-25-24 119-48-12
 Point #010 at 34-24-24 119-32-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 250 (X)



Point #222 at 34-26-24 119-42-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 258 (X)



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Point #053 at 34-25-24 119-34-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Least preclusive siting
Availability of Channel 266 (X)

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Point #053 at 34-25-24 119-34-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 266 (X)

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+-----+-----+

Point #441 at 34-35-24 119-52-12
Point #241 at 34-24-24 119-43-12
Point #019 at 34-33-24 119-32-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Least preclusive siting
Availability of Channel 267 (X)

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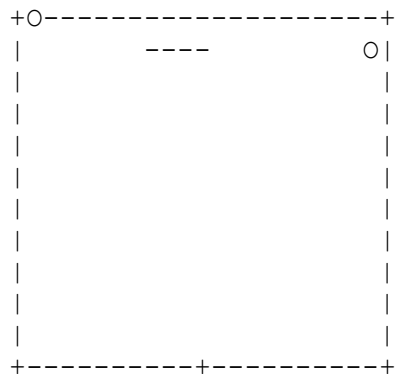
+-----+-----+

Point #347 at 34-25-24 119-48-12
Point #010 at 34-24-24 119-32-12
Santa Barbara, CA
Latitude 34-25-24
Longitude 119-42-12
Most preclusive siting
Availability of Channel 267 (X)

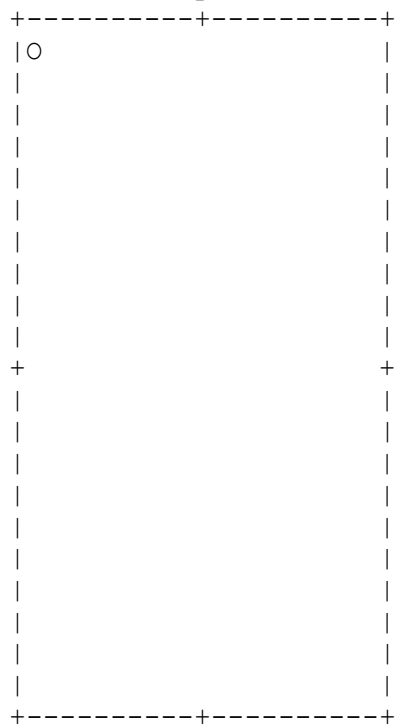
+-----+-----+

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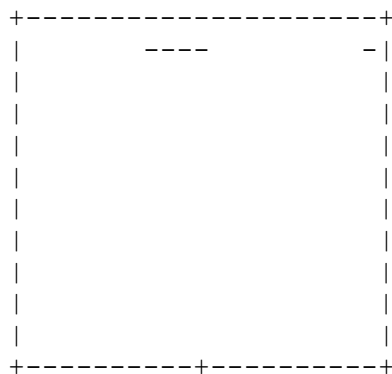
+-----+-----+



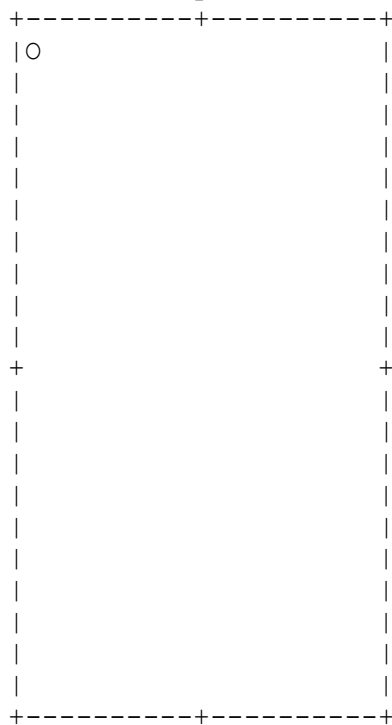
Point #010 at 34-24-24 119-32-12
 Point #431 at 34-25-24 119-52-12
 Point #231 at 34-35-24 119-42-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 279 (X)



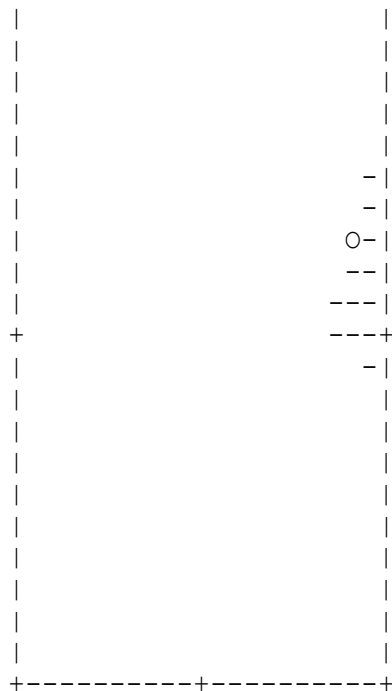
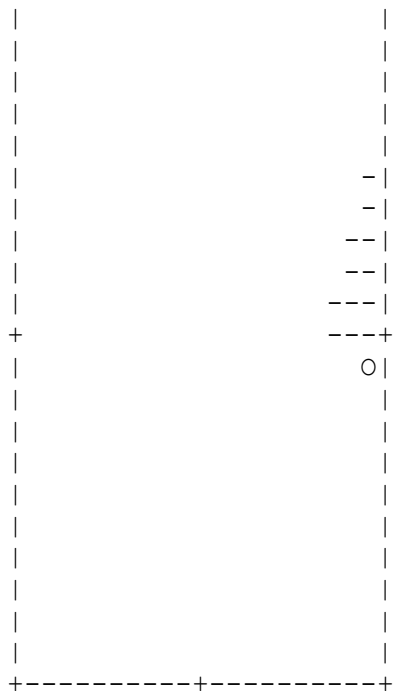
Point #441 at 34-35-24 119-52-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 281 (X)



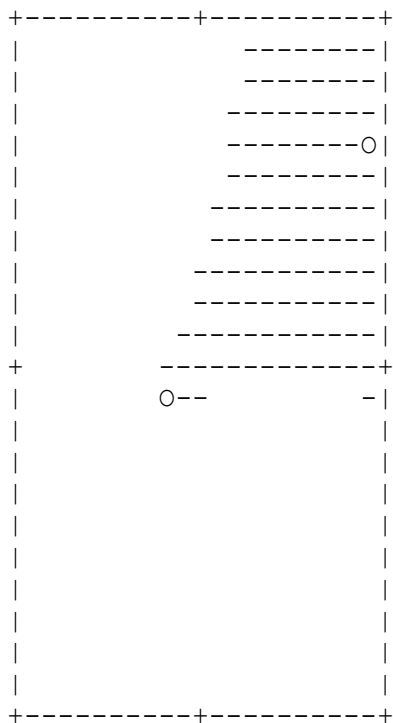
Point #205 at 34-30-24 119-41-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 279 (X)



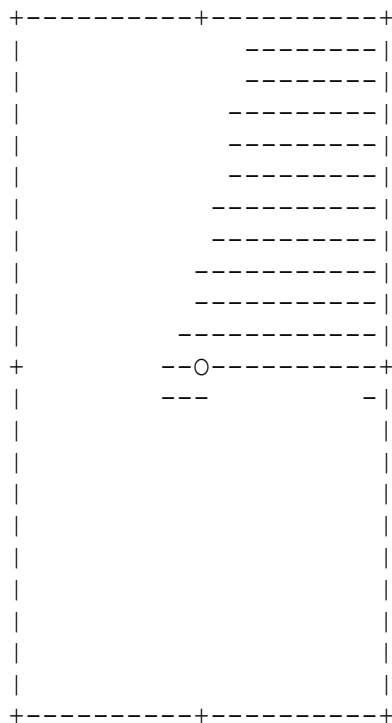
Point #441 at 34-35-24 119-52-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 281 (X)



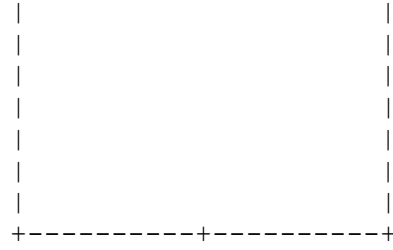
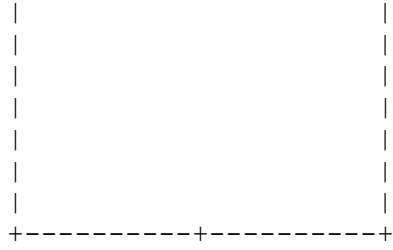
Point #010 at 34-24-24 119-32-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Least preclusive siting
 Availability of Channel 282 (X)



Point #035 at 34-28-24 119-33-12
 Santa Barbara, CA
 Latitude 34-25-24
 Longitude 119-42-12
 Most preclusive siting
 Availability of Channel 282 (X)



[illegible]



Point #032 at 34-25-24 119-33-12

Point #032 at 34-25-24 119-33-12

{End of Figure 2}

FIGURE 3 (11 Pages)

Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04
 Grid Size 11 x 11
 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	121
202	0	222	121	242	56	262	121	282	121
203	0	223	34	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	0	245	0	265	0	285	0
206	0	226	0	246	121	266	121	286	121
207	0	227	121	247	0	267	121	287	0
208	0	228	0	248	0	268	0	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	99	270	0	290	10
211	0	231	121	251	0	271	5	291	0
212	0	232	0	252	0	272	68	292	0
213	0	233	0	253	0	273	66	293	0
214	0	234	0	254	0	274	0	294	56
215	0	235	0	255	67	275	0	295	0
216	0	236	0	256	12	276	0	296	0
217	0	237	0	257	109	277	0	297	0
218	0	238	121	258	25	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

Total	1938								

Total allotments, least preclusive spacing:	36
Total allotments, most preclusive spacing:	21
Solimar Beach, CA	Solimar Beach, CA
Latitude 34-10-46	Latitude 34-10-46

Longitude 119-28-04
Least preclusive siting
Availability of Channel 222 (X)

```
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|-----O|
+-----+-----+
```

Longitude 119-28-04
Most preclusive siting
Availability of Channel 222 (X)

```
+-----+-----+
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|-----|
+-----+-----+
```

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 223 (X)

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+-----+-----+
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|O--|
+-----+-----+
```

Point #002 at 34-06-46 119-23-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 223 (X)

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+-----+-----+
```

Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 227 (X)

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|O-----|
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```

Point #094 at 34-10-46 119-31-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 227 (X)

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+-----O-----+
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Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 231 (X)

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O-----

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Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 238 (X)

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O-----

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+-----+-----+

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA

+-----+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 231 (X)

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+-----+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 238 (X)

+-----+-----+

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+-----+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA

Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 242 (X)

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```

Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 242 (X)

```
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|----O---|
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```

Point #071 at 34-09-46 119-29-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 246 (X)

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|-----O|
+-----+-----+
```

Point #071 at 34-09-46 119-29-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 246 (X)

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|-----|
+-----+-----+
```

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 250 (X)

```
+-----+-----+
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+-----O---+
```

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 250 (X)

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Point #061 at 34-10-46 119-28-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04
 Least preclusive siting
 Availability of Channel 255 (X)

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Point #061 at 34-10-46 119-28-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04
 Most preclusive siting
 Availability of Channel 255 (X)

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|    --O--      |
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```

Point #073 at 34-11-46 119-29-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04
 Least preclusive siting
 Availability of Channel 256 (X)

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|          |
|          -|
|         --|
|        ----|
|       ----O|
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```

Point #075 at 34-13-46 119-29-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04
 Most preclusive siting
 Availability of Channel 256 (X)

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|          |
|          -|
|         --|
|        O---|
|       ----|
+-----+-----+

```

Point #001 at 34-05-46 119-23-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04

Point #035 at 34-06-46 119-26-04
 Solimar Beach, CA
 Latitude 34-10-46
 Longitude 119-28-04

Least preclusive siting
Availability of Channel 257 (X)

```
+-----+-----+
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
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|O-----|
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Most preclusive siting
Availability of Channel 257 (X)

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|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
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|O-----|
+-----+-----+
```

Point #011 at 34-15-46 119-23-04
Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 258 (X)

```
+-----+-----+
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
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|O-----|
+-----+-----+
```

Point #117 at 34-11-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 258 (X)

```
+-----+-----+
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
|      -O-----|
+-----+-----+
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|-----|
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|O-----|
+-----+-----+
```

Point #001 at 34-05-46 119-23-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 262 (X)

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```

Point #045 at 34-05-46 119-27-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 262 (X)

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Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 266 (X)

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O-----

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+-----+-----+

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 267 (X)

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+-----+-----+

O-----
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Point #011 at 34-15-46 119-23-04
Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46

+-----+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 266 (X)

+-----+-----+

+-----O-----+

+-----+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 267 (X)

+-----+-----+

+-----+-----+

+-----+-----+

Solimar Beach, CA
Latitude 34-10-46

Longitude 119-28-04
Least preclusive siting
Availability of Channel 271 (X)

```

+-----+-----+
|               |
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|               |
+       +
|               |
|               |
|               |
|  --         |
| O--         |
+-----+-----+

```

Longitude 119-28-04
Most preclusive siting
Availability of Channel 271 (X)

```

+-----+-----+
|               |
|               |
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+       +
|               |
|               |
|               |
|  --         |
| --O         |
+-----+-----+

```

Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 272 (X)

```

+-----+-----+
|               |
|               |
|               |
|   -          |
|  -----    |
+-----+    +
|  -----    |
|  -----    |
|  -----    |
|  -----    |
|  -----O   |
+-----+-----+

```

Point #089 at 34-05-46 119-31-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 272 (X)

```

+-----+-----+
|               |
|               |
|               |
|   -          |
|  -----    |
+-----+    +
|  -----O   |
|  -----    |
|  -----    |
|  -----    |
|  -----    |
|  -----    |
+-----+-----+

```

Point #001 at 34-05-46 119-23-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 273 (X)

```

+-----+-----+
|               O|
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|               ---|
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|       -----|
|       -----|

```

Point #005 at 34-09-46 119-23-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 273 (X)

```

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```

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|O-----|
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Point #011 at 34-15-46 119-23-04
Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 281 (X)

+-----+
O-----

+-----+

-----O
+-----+

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 282 (X)

+-----+
-----O

+-----+

O-----
+-----+

Point #011 at 34-15-46 119-23-04
Point #111 at 34-05-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46

| |
| |
|--O-----|
+-----+

Point #089 at 34-05-46 119-31-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 281 (X)

+-----+

+-----O-----+

+-----+

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 282 (X)

+-----+

+-----+

+-----+

Solimar Beach, CA
Latitude 34-10-46

Longitude 119-28-04
Least preclusive siting
Availability of Channel 286 (X)

```
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|O-----|
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|-----O|
+-----+
```

Longitude 119-28-04
Most preclusive siting
Availability of Channel 286 (X)

```
+-----+-----+
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+-----O-----+
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|-----|
|-----|
|-----|
+-----+-----+
```

Point #001 at 34-05-46 119-23-04
Point #121 at 34-15-46 119-33-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 290 (X)

```
+-----+-----+
|         |
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+-----+
|         |
|         -|
|         O-|
|         ---|
|         ----|
+-----+-----+
```

Point #061 at 34-10-46 119-28-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 290 (X)

```
+-----+-----+
|         |
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|         |
+-----+
|         |
|         -|
|         O-|
|         ---|
|         ----|
+-----+-----+
```

Point #014 at 34-07-46 119-24-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Least preclusive siting
Availability of Channel 294 (X)

```
+-----+-----+
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|-----|
|-----|
+-----+
|-----|
|-----O|
+-----+
```

Point #014 at 34-07-46 119-24-04
Solimar Beach, CA
Latitude 34-10-46
Longitude 119-28-04
Most preclusive siting
Availability of Channel 294 (X)

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+-----+-----+
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+-----+
|-----|
|-----O|
+-----+
```


+-----+-----+

+-----+-----+

Point #071 at 34-09-46 119-29-04

Point #071 at 34-09-46 119-29-04

{End of Figure 3}