

**LPFM Preclusion Study**  
**Calvary Chapel Church**  
Regarding Facility ID 138681 Channel 242

**LPFM Preclusion Study**

138681 – Coral Springs, FL

The applicant is requesting a minor technical amendment to this application. The amended application does not preclude an LPFM future applicant according to the December 2012 release of the FCC Grid Tool as shown below. This application is located outside the appropriate grid for the market.

**49 – West Palm Beach / Boca Raton, Florida**

This proposed site is located approximately 20.6 km from the northern most point in the grid. This proposed site is located more than 39 km from the point for an available LPFM co-channel on the grid. This proposed site is located more than 28 km from the point for an available LPFM first adjacent channel on the grid. This proposed site is located more than 21 km from the point for an available LPFM second adjacent channel on the grid. Multiple channels are available for a future LPFM applicant within the grid and at the proposed site.<sup>1</sup> This instant application proposes use of channel 242 which is first adjacent to WPOW – Facility Id 73893 which is licensed to channel 243. As such, this proposed instant application shall be classified as a fill-in translator to WPOW and no future LPFM applicant is precluded from these channels.

**12 – Miami / Fort Lauderdale, Florida**

This proposed site is located approximately 28.2 km from the closest point in the grid (not located contained in a body of water). This proposed site is located more than 39 km from the point for an available LPFM co-channel on the grid. This proposed site is located more than 28 km from the point for an available LPFM first adjacent channel on the grid. This proposed site is located more than 21 km from the point for an available LPFM second adjacent channel on the grid. Multiple channels are available for a future LPFM applicant within the grid and at the proposed site.<sup>2</sup> This instant application proposes use of channel 242 which is first adjacent to WPOW – Facility Id 73893 which is licensed to channel 243. As such, this proposed instant application shall be classified as a fill-in translator to WPOW and no future LPFM applicant is precluded from these channels.

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<sup>1</sup> The FCC Grid Tool shows placement of potential LPFM stations in the Atlantic Ocean and other such locations. These erroneous locations have been analyzed and dismissed accordingly.

<sup>2</sup> Id 1.

## Grid Analysis

### West Palm Beach, Florida

The following is a print out from the Grid Tool provided by the FCC<sup>3,4</sup>.

wpb\_130415,fl  
 Latitude 26-42-54  
 Longitude 080-03-13  
 Grid Size 31 x 31  
 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	8	260	0	280	219
201	0	221	0	241	19	261	0	281	0
202	0	222	0	242	0	262	0	282	0
203	132	223	226	243	0	263	0	283	0
204	0	224	68	244	0	264	0	284	618
205	0	225	0	245	307	265	0	285	25
206	0	226	0	246	0	266	574	286	0
207	0	227	40	247	0	267	0	287	0
208	0	228	310	248	0	268	0	288	0
209	0	229	10	249	0	269	99	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	0
212	103	232	0	252	602	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	0	275	0	295	0
216	0	236	40	256	40	276	0	296	103

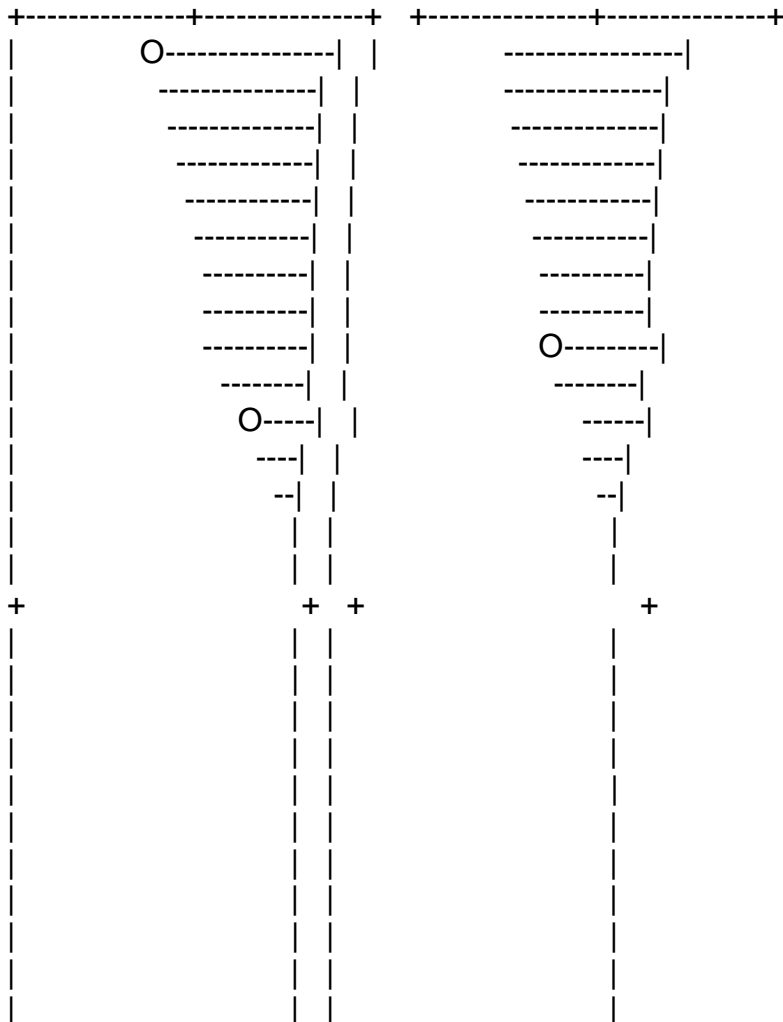
<sup>3</sup> DA 12-1987 - Released: December 10, 2012 - Media Bureau Releases Updated Low Power FM - Spectrum Availability Data Files – Latest public release as of this date.

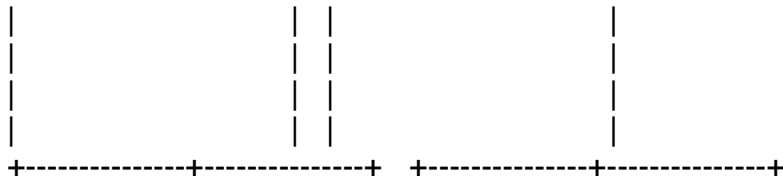
<sup>4</sup> The channel points shown available for an LPFM on channels 240 and 241 are actually located in the Atlantic Ocean and thus are not considered to be valid point locations for an LPFM and can not preclude an LPFM.

217	0	237	0	257	0	277	0	297	88
218	50	238	0	258	0	278	0	298	40
219	27	239	0	259	0	279	0	299	0
						300	0		

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Total 3748

Total allotments, least preclusive spacing: 67	
Total allotments, most preclusive spacing: 47	
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 203 (X)	Availability of Channel 203 (X)





Point #527 at 26-57-54 080-04-13    Point #302 at 26-49-54 079-57-13

Point #176 at 26-47-54 079-53-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

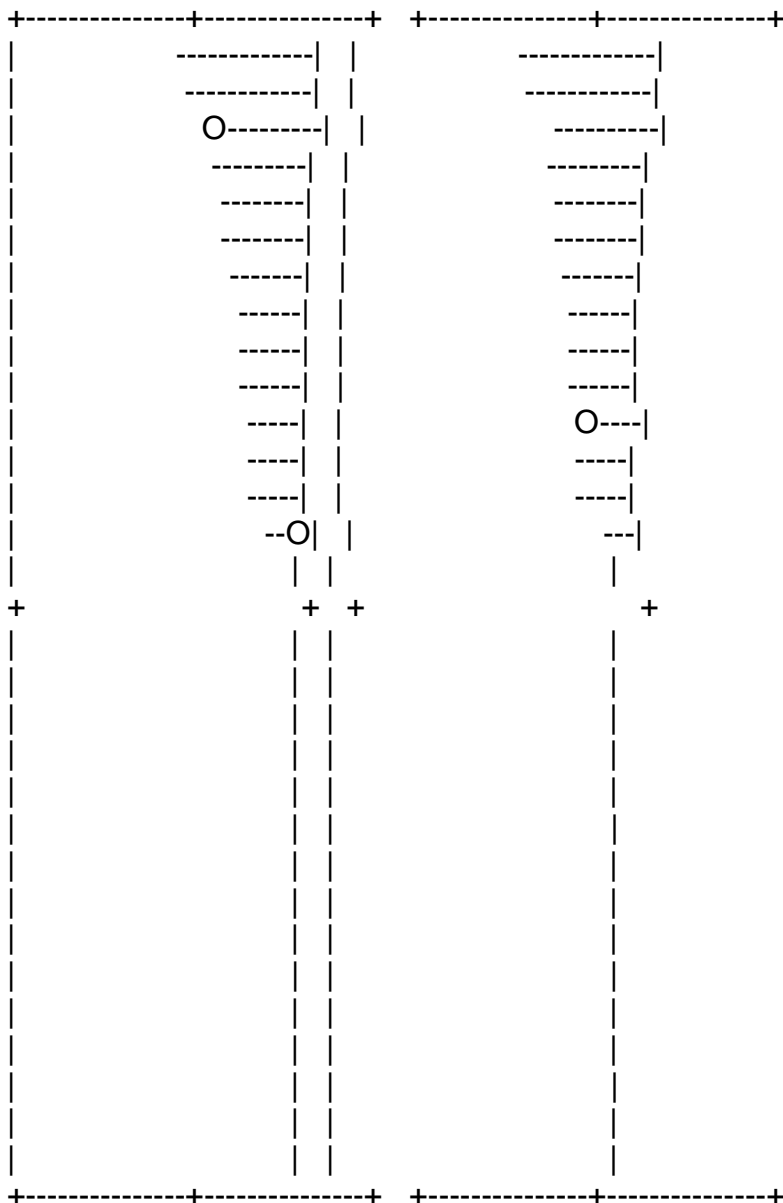
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

Availability of Channel 212 (X)

Availability of Channel 212 (X)



Point #018 at 26-44-54 079-48-13    Point #145 at 26-47-54 079-52-13

Point #308 at 26-55-54 079-57-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

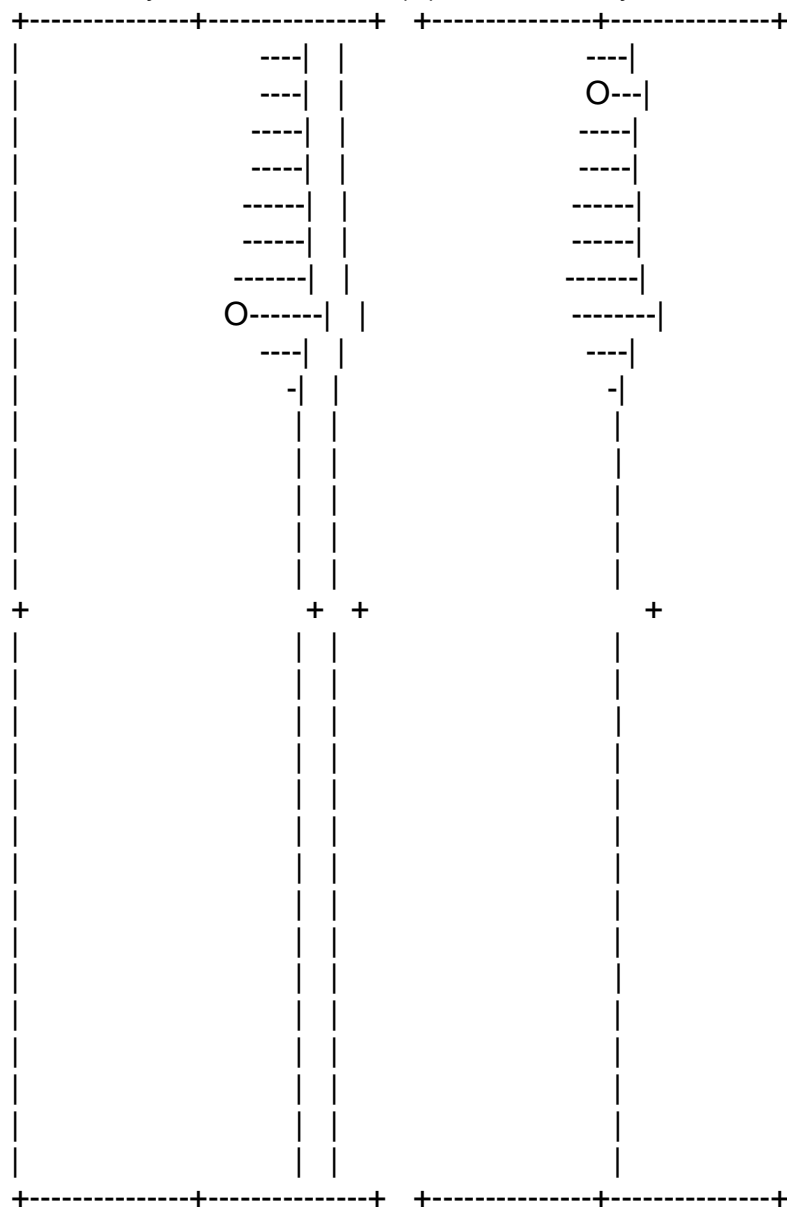
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

Availability of Channel 218 (X)

Availability of Channel 218 (X)



Point #241 at 26-50-54 079-55-13    Point #123 at 26-56-54 079-51-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

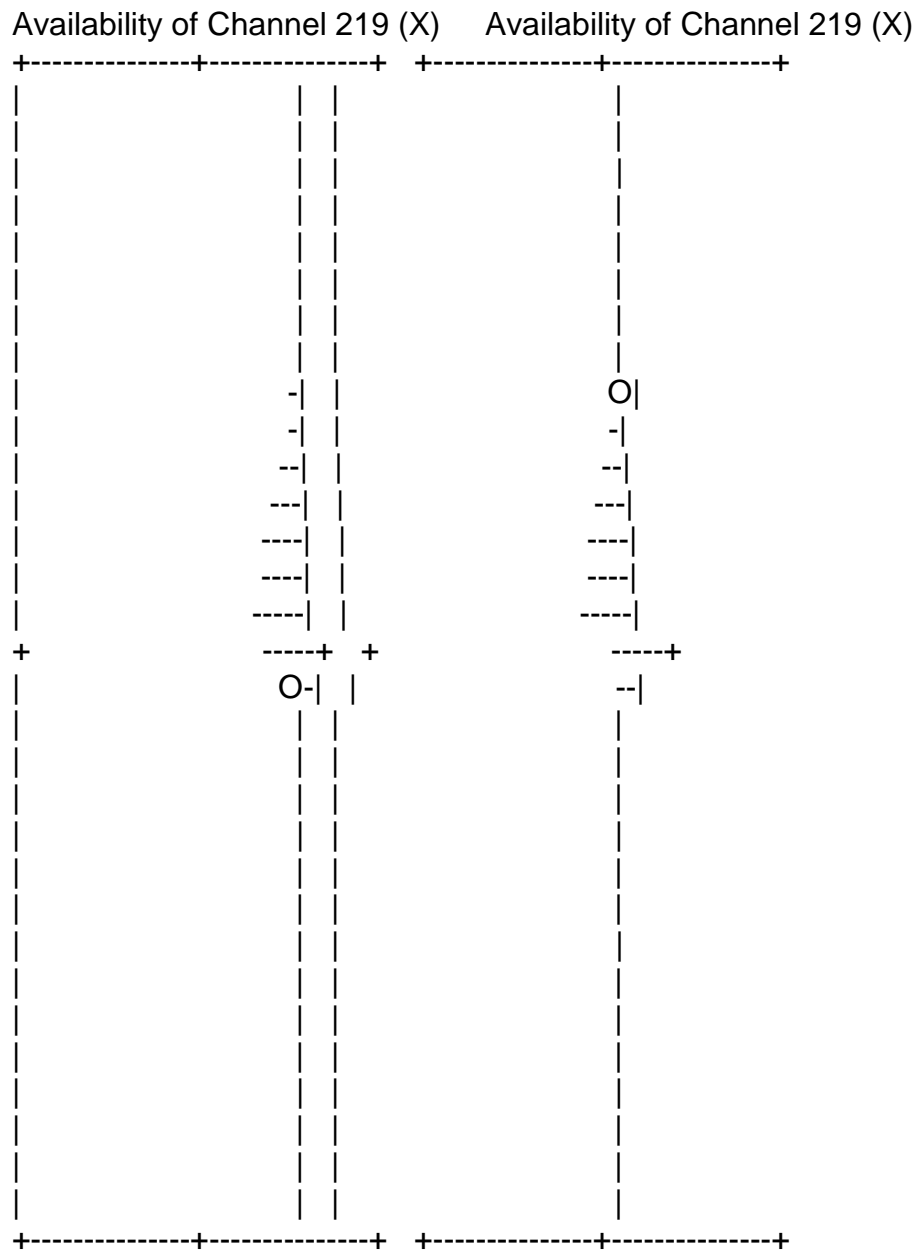
Latitude 26-42-54

Longitude 080-03-13

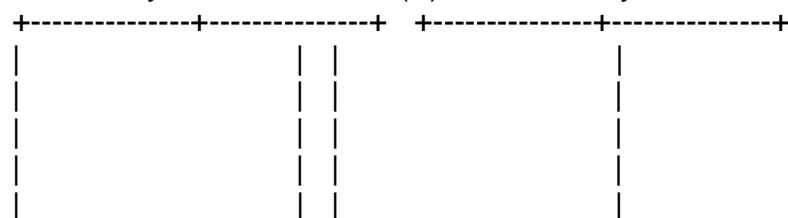
Longitude 080-03-13

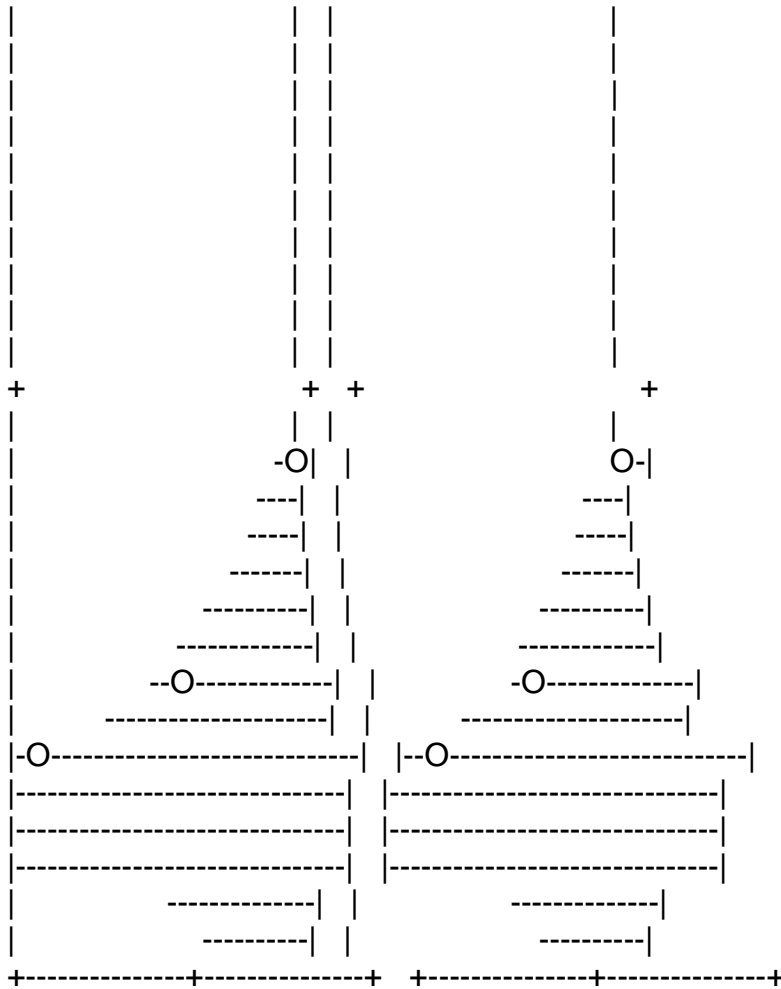
Least preclusive siting

Most preclusive siting

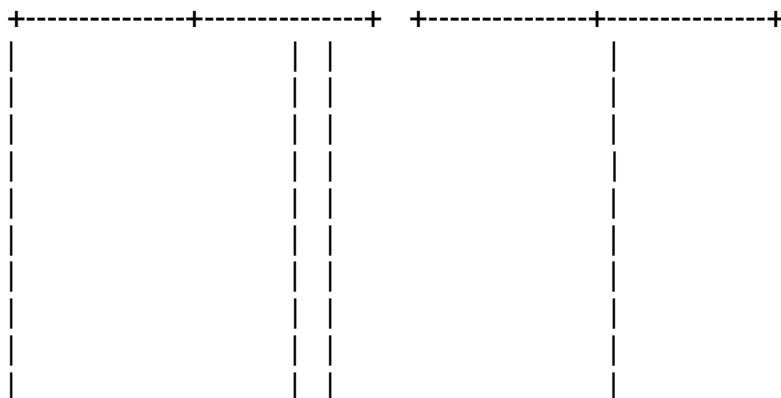


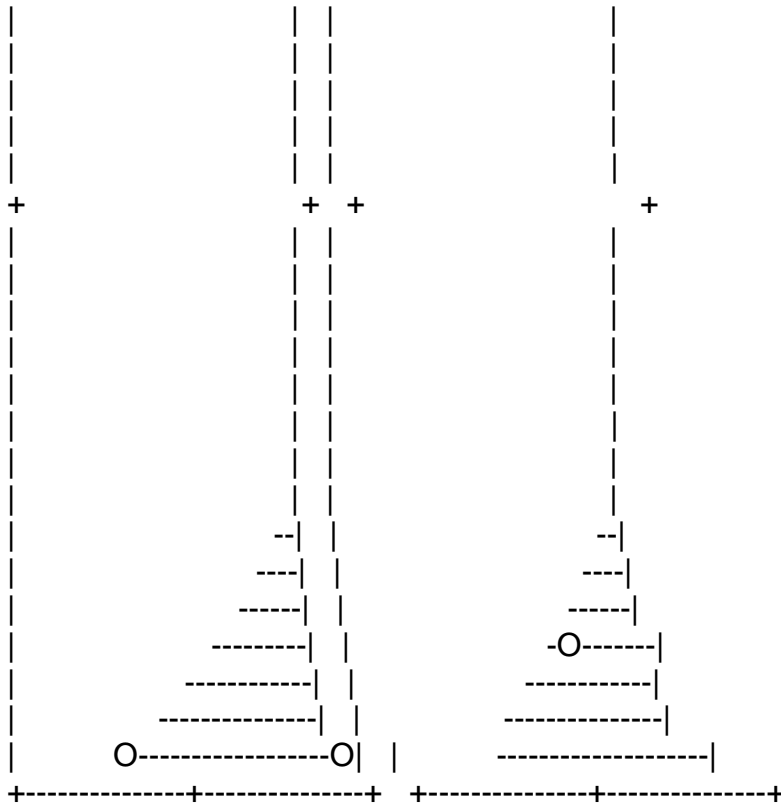
Point #046 at 26-41-54 079-49-13    Point #023 at 26-49-54 079-48-13  
 wpb\_130415,fl    wpb\_130415,fl  
 Latitude 26-42-54    Latitude 26-42-54  
 Longitude 080-03-13    Longitude 080-03-13  
 Least preclusive siting    Most preclusive siting  
 Availability of Channel 223 (X)    Availability of Channel 223 (X)





Point #905 at 26-32-54 080-17-13	Point #442 at 26-34-54 080-02-13
Point #014 at 26-40-54 079-48-13	Point #874 at 26-32-54 080-16-13
Point #411 at 26-34-54 080-01-13	Point #045 at 26-40-54 079-49-13
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 224 (X)	Availability of Channel 224 (X)





Point #590 at 26-27-54 080-07-13    Point #221 at 26-30-54 079-55-13

Point #001 at 26-27-54 079-48-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

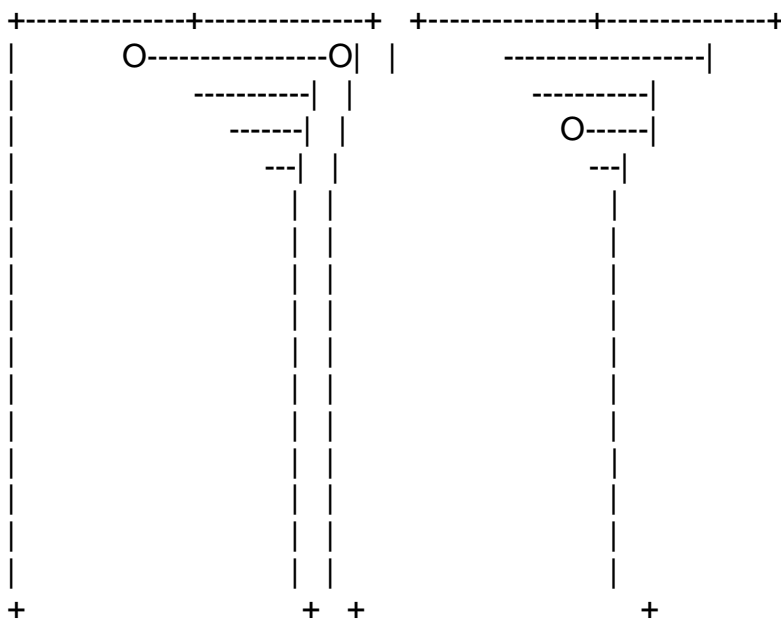
Longitude 080-03-13

Least preclusive siting

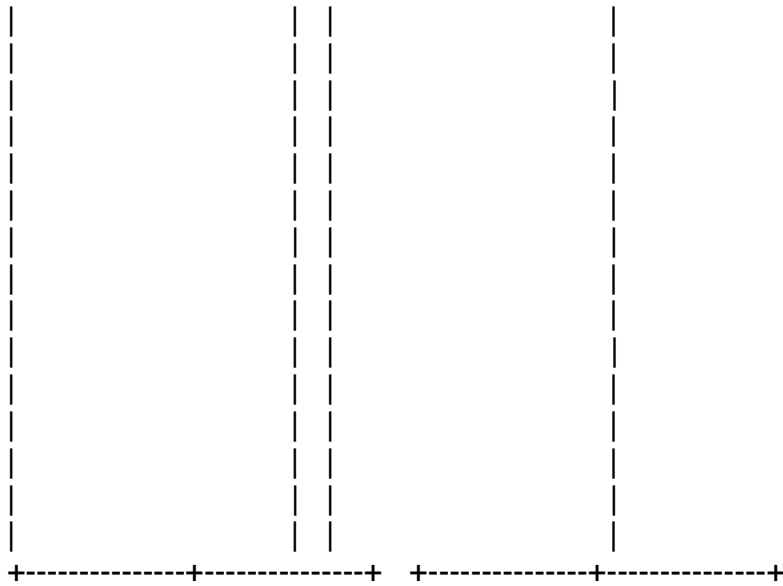
Most preclusive siting

Availability of Channel 227 (X)

Availability of Channel 227 (X)







Point #589 at 26-57-54 080-06-13    Point #215 at 26-55-54 079-54-13

Point #031 at 26-57-54 079-48-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

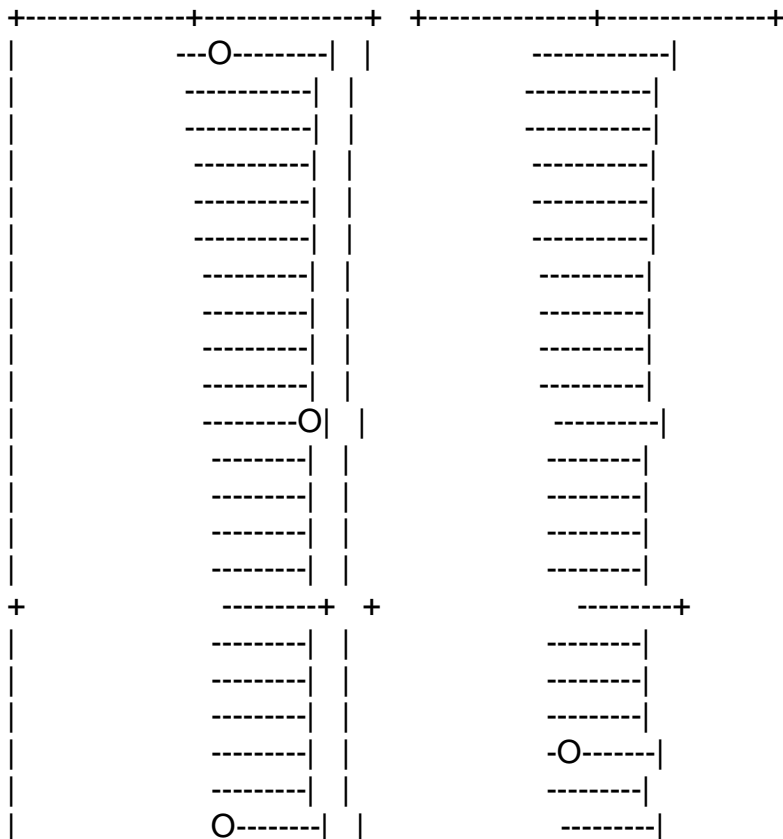
Longitude 080-03-13

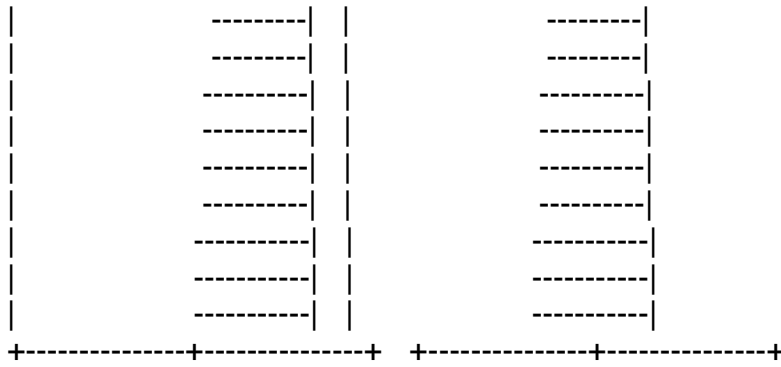
Least preclusive siting

Most preclusive siting

Availability of Channel 228 (X)

Availability of Channel 228 (X)





Point #310 at 26-57-54 079-57-13    Point #229 at 26-38-54 079-55-13

Point #021 at 26-47-54 079-48-13

Point #258 at 26-36-54 079-56-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

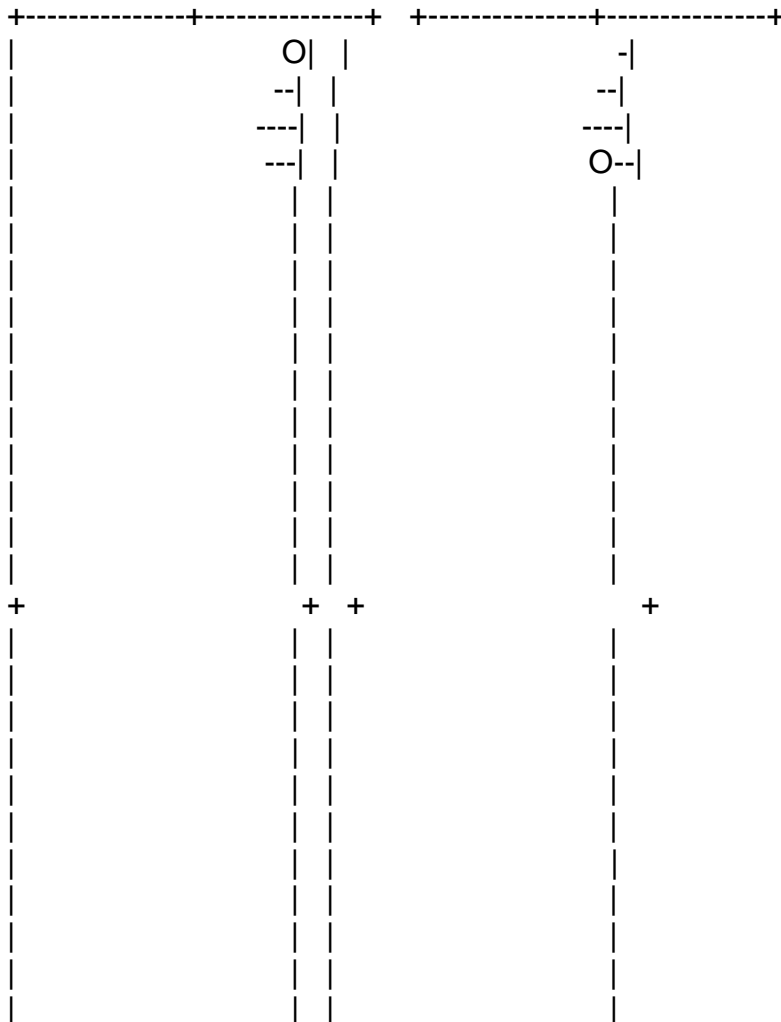
Longitude 080-03-13

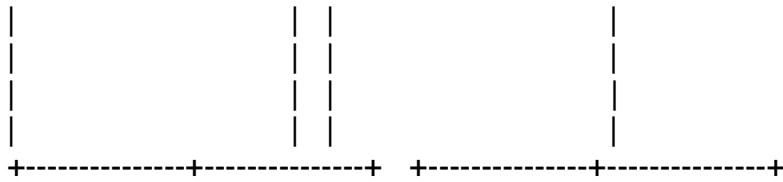
Least preclusive siting

Most preclusive siting

Availability of Channel 229 (X)

Availability of Channel 229 (X)





Point #031 at 26-57-54 079-48-13    Point #090 at 26-54-54 079-50-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

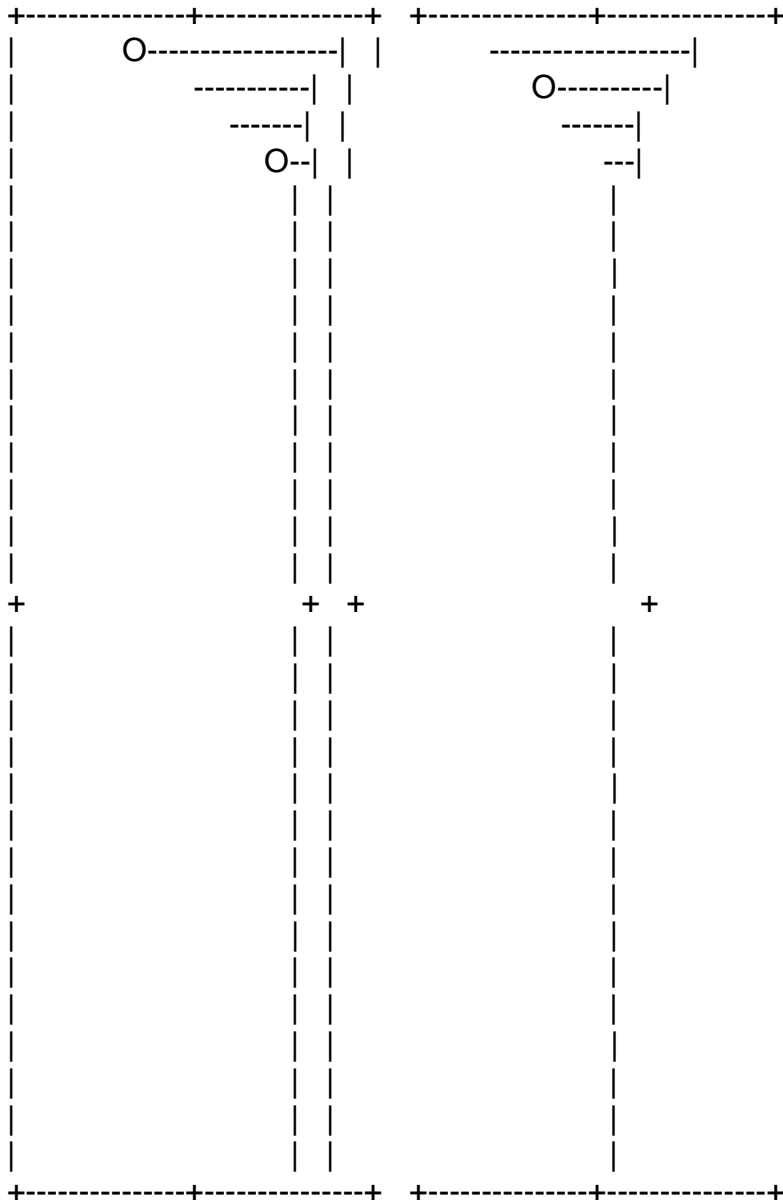
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

Availability of Channel 236 (X)

Availability of Channel 236 (X)



Point #589 at 26-57-54 080-06-13    Point #340 at 26-56-54 079-58-13

Point #090 at 26-54-54 079-50-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

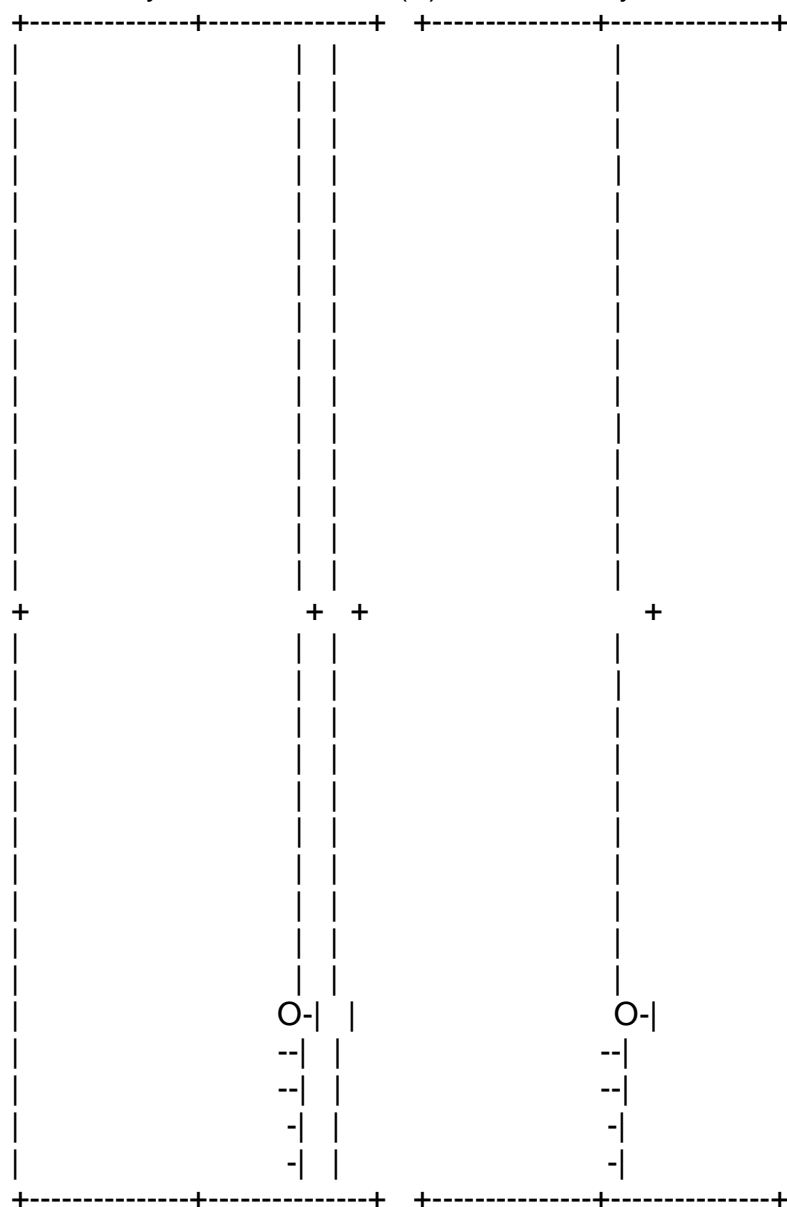
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

Availability of Channel 240 (X)

Availability of Channel 240 (X)



Point #036 at 26-31-54 079-49-13    Point #036 at 26-31-54 079-49-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

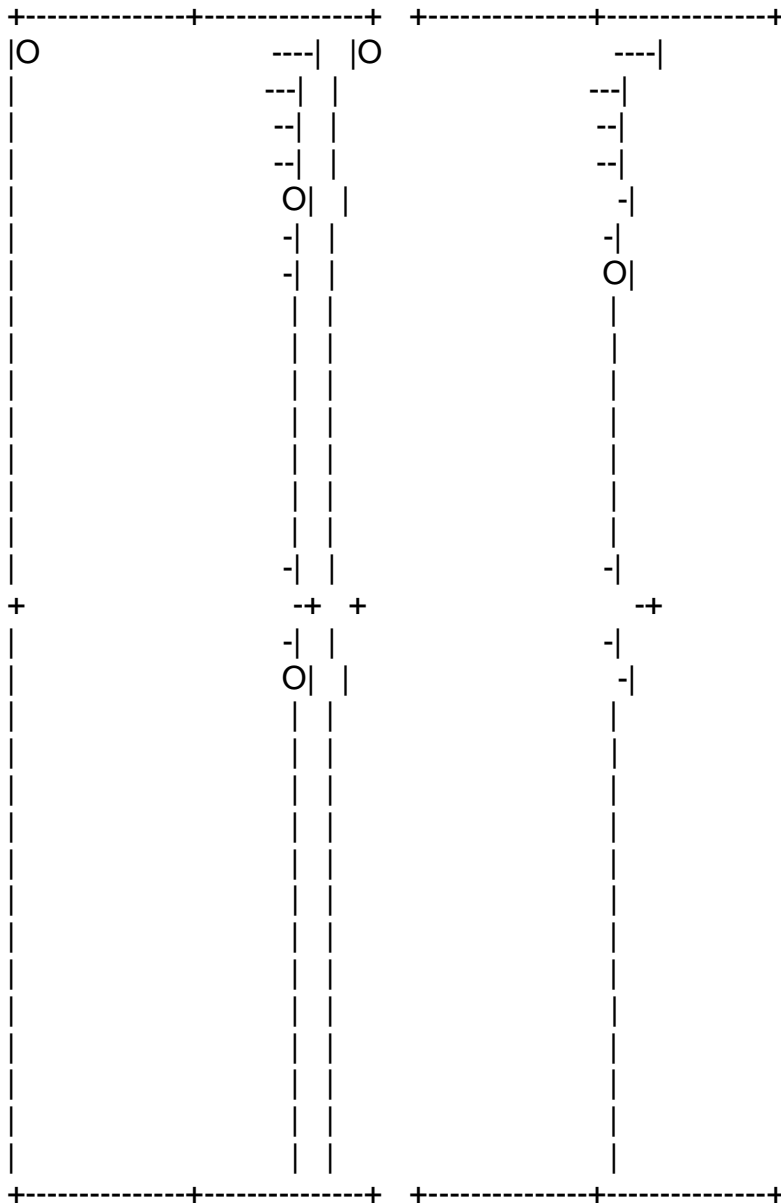
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

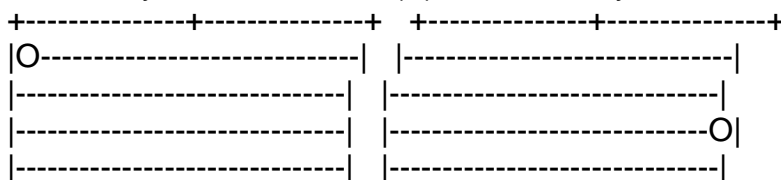
Availability of Channel 241 (X)

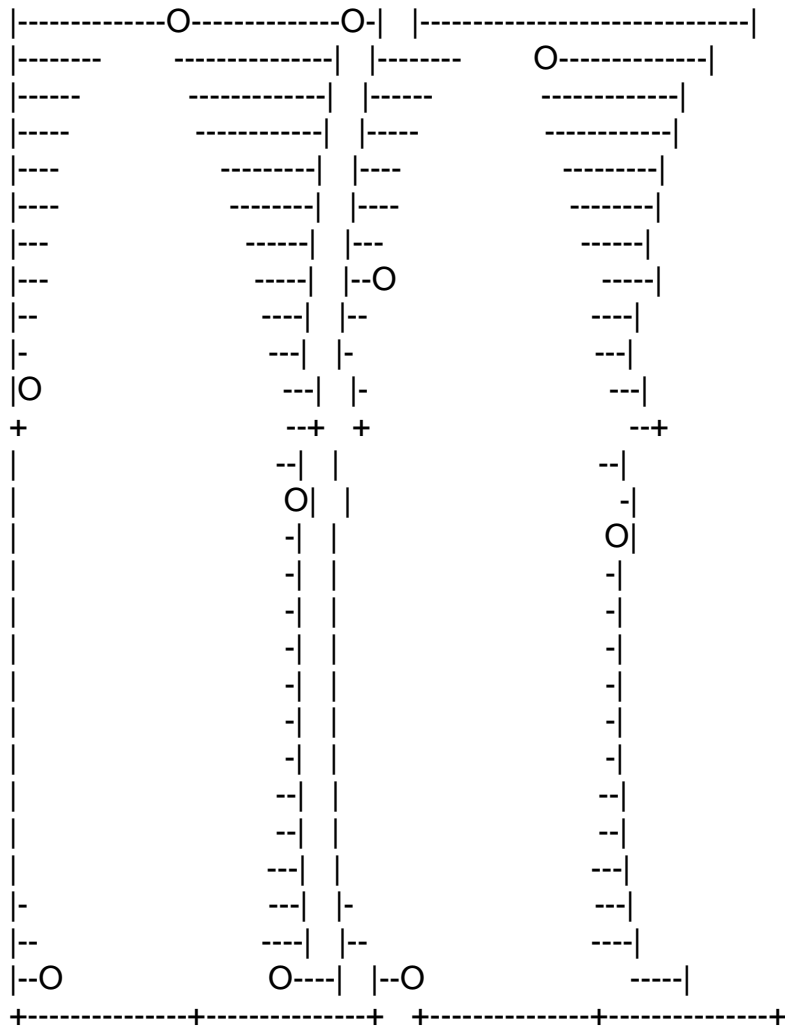
Availability of Channel 241 (X)



Point #961 at 26-57-54 080-18-13    Point #025 at 26-51-54 079-48-13  
 Point #014 at 26-40-54 079-48-13    Point #961 at 26-57-54 080-18-13  
 Point #027 at 26-53-54 079-48-13

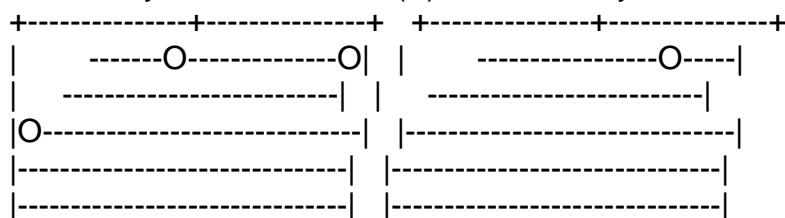
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 245 (X)	Availability of Channel 245 (X)

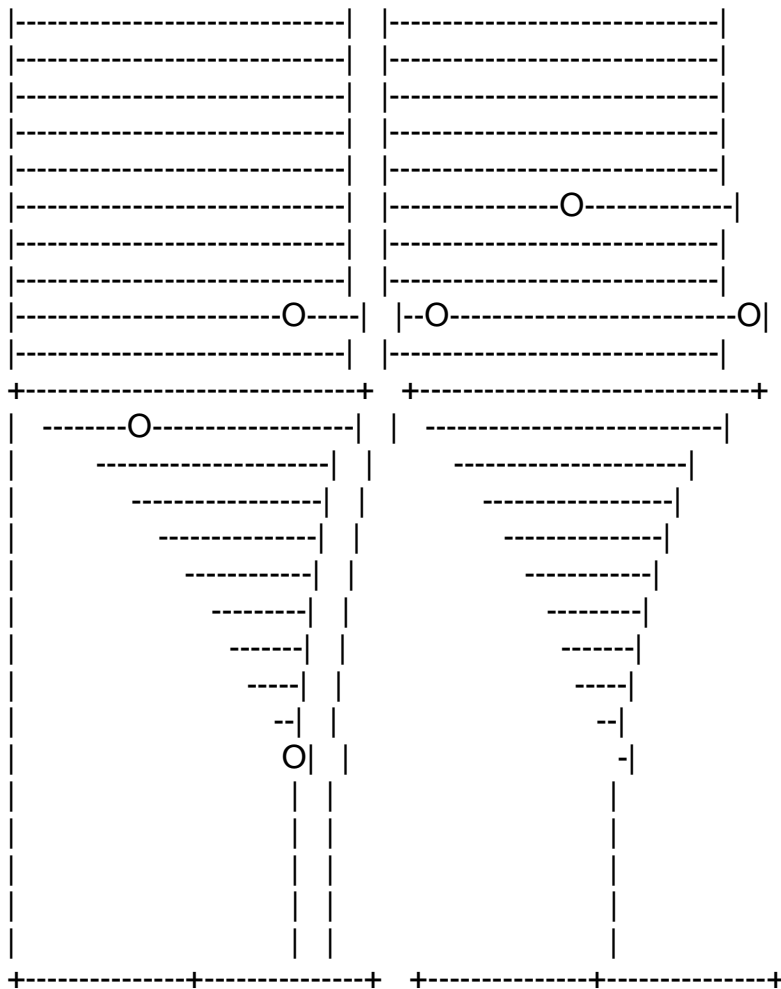




Point #869 at 26-27-54 080-16-13	Point #460 at 26-52-54 080-02-13
Point #125 at 26-27-54 079-52-13	Point #013 at 26-39-54 079-48-13
Point #947 at 26-43-54 080-18-13	Point #888 at 26-46-54 080-16-13
Point #961 at 26-57-54 080-18-13	Point #869 at 26-27-54 080-16-13
Point #014 at 26-40-54 079-48-13	Point #029 at 26-55-54 079-48-13
Point #523 at 26-53-54 080-04-13	
Point #058 at 26-53-54 079-49-13	

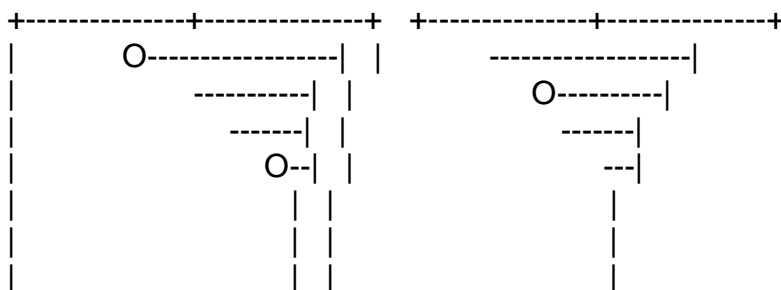
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 252 (X)	Availability of Channel 252 (X)

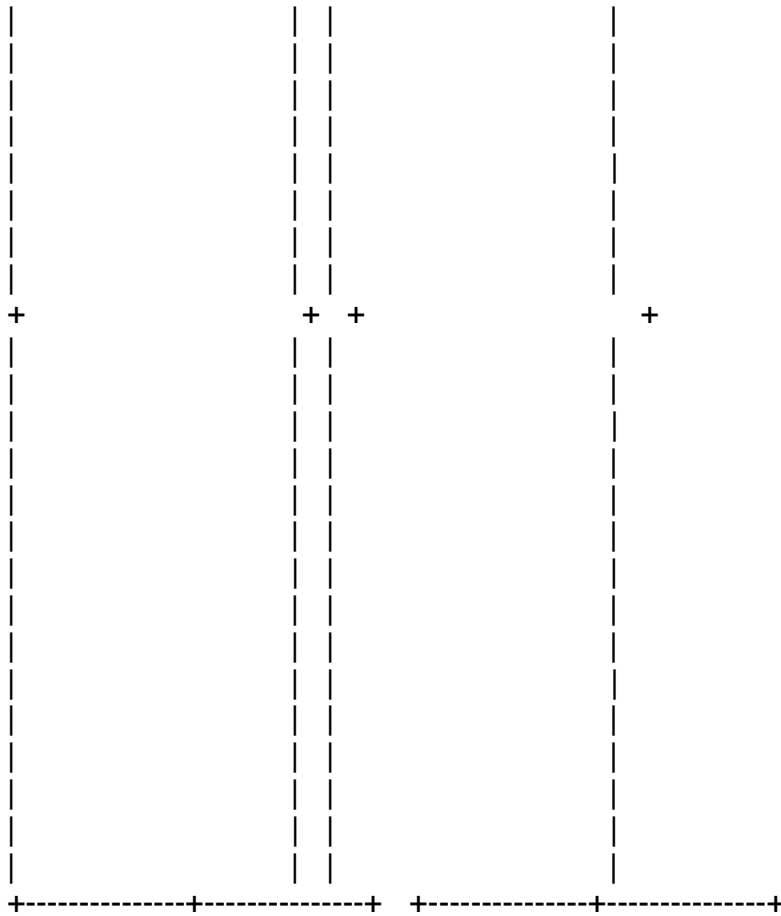




Point #006 at 26-32-54 079-48-13	Point #455 at 26-47-54 080-02-13
Point #031 at 26-57-54 079-48-13	Point #018 at 26-44-54 079-48-13
Point #173 at 26-44-54 079-53-13	Point #886 at 26-44-54 080-16-13
Point #496 at 26-57-54 080-03-13	Point #186 at 26-57-54 079-53-13
Point #959 at 26-55-54 080-18-13	
Point #604 at 26-41-54 080-07-13	

wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 256 (X)	Availability of Channel 256 (X)





Point #589 at 26-57-54 080-06-13    Point #340 at 26-56-54 079-58-13

Point #090 at 26-54-54 079-50-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

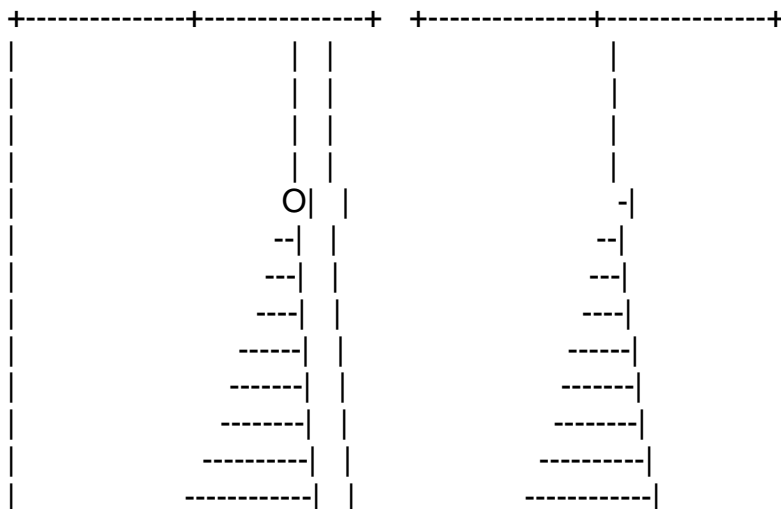
Longitude 080-03-13

Least preclusive siting

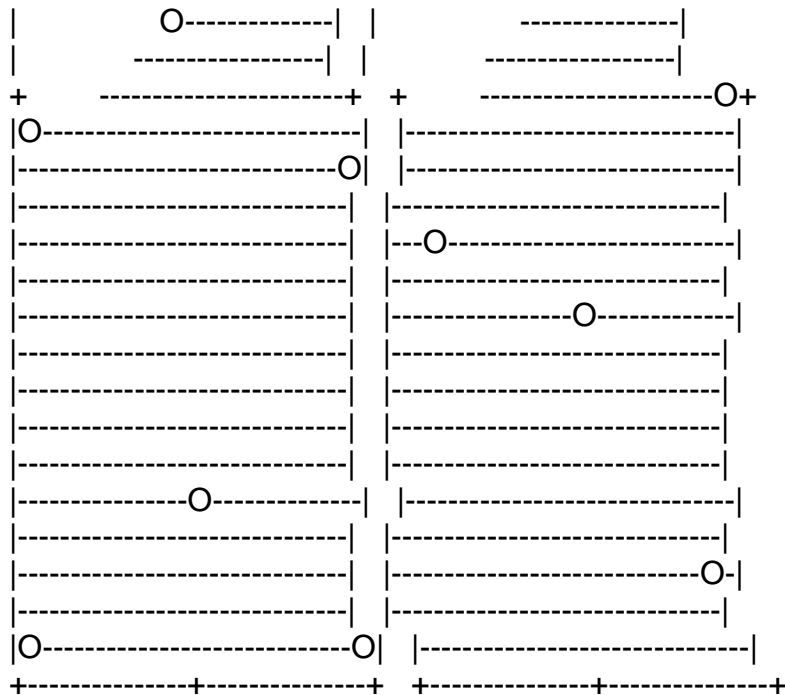
Most preclusive siting

Availability of Channel 266 (X)

Availability of Channel 266 (X)

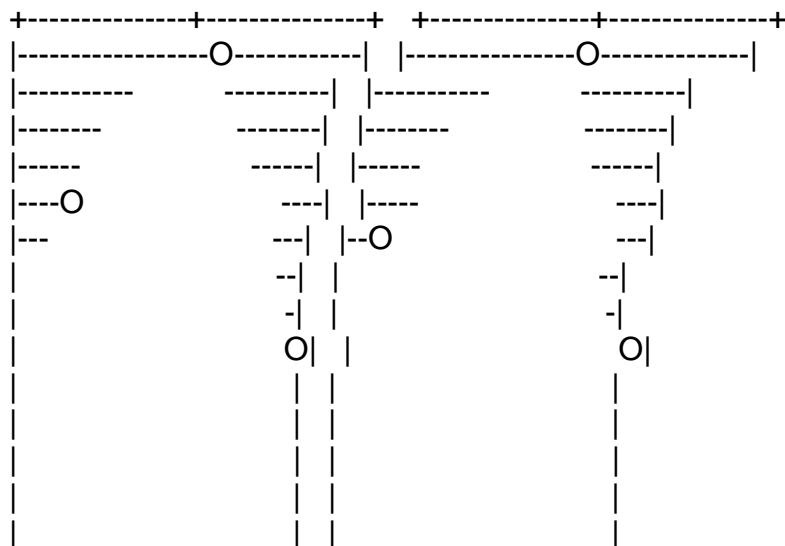


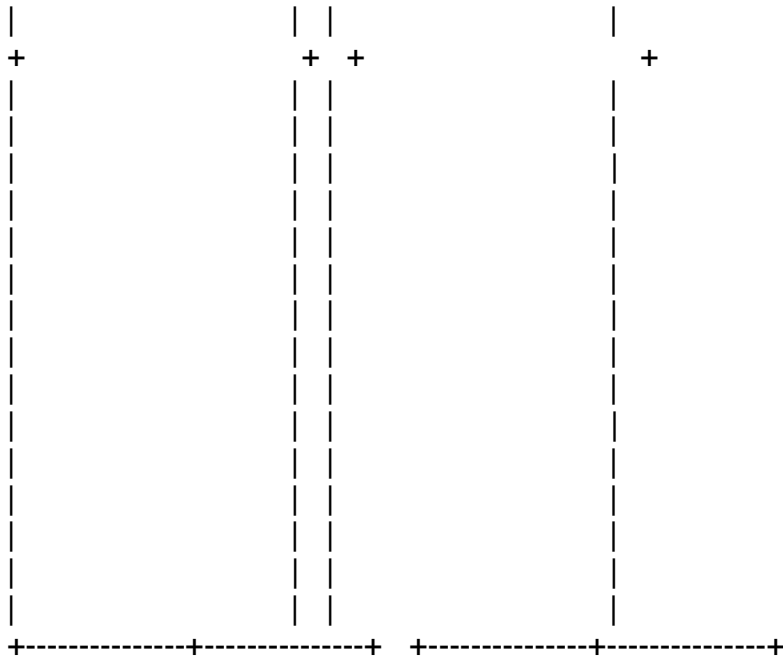




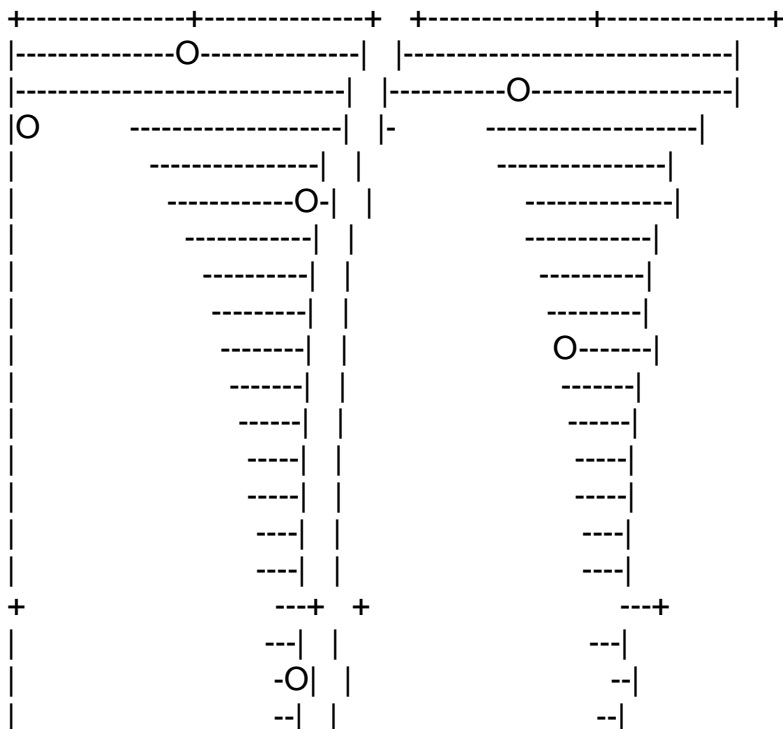
Point #027 at 26-53-54 079-48-13	Point #413 at 26-36-54 080-01-13
Point #001 at 26-27-54 079-48-13	Point #849 at 26-38-54 080-15-13
Point #014 at 26-40-54 079-48-13	Point #016 at 26-42-54 079-48-13
Point #452 at 26-44-54 080-02-13	Point #034 at 26-29-54 079-49-13
Point #945 at 26-41-54 080-18-13	
Point #931 at 26-27-54 080-18-13	
Point #439 at 26-31-54 080-02-13	

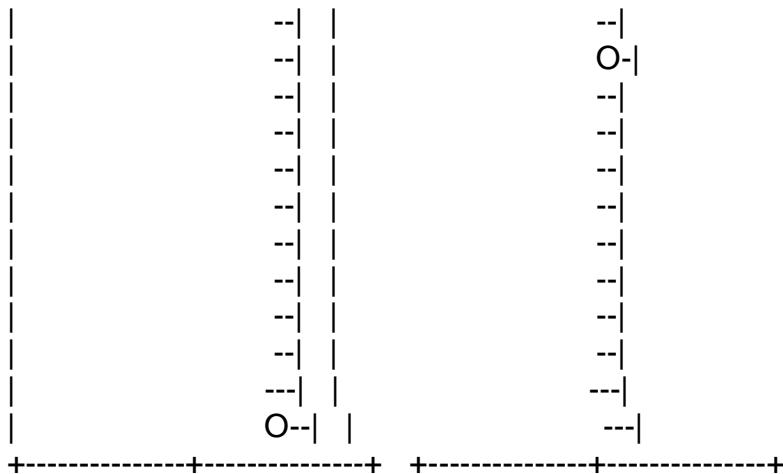
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 269 (X)	Availability of Channel 269 (X)





Point #023 at 26-49-54 079-48-13	Point #465 at 26-57-54 080-02-13
Point #403 at 26-57-54 080-00-13	Point #894 at 26-52-54 080-16-13
Point #833 at 26-53-54 080-14-13	Point #023 at 26-49-54 079-48-13
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 280 (X)	Availability of Channel 280 (X)





Point #063 at 26-27-54 079-50-13	Point #240 at 26-49-54 079-55-13
Point #959 at 26-55-54 080-18-13	Point #619 at 26-56-54 080-07-13
Point #014 at 26-40-54 079-48-13	Point #042 at 26-37-54 079-49-13
Point #496 at 26-57-54 080-03-13	
Point #058 at 26-53-54 079-49-13	

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

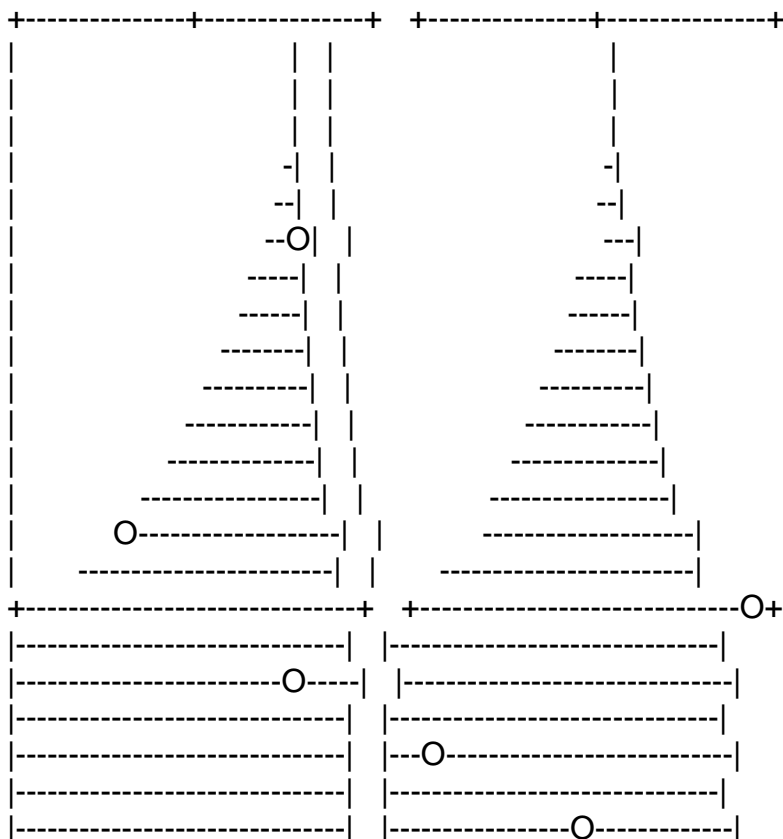
Longitude 080-03-13

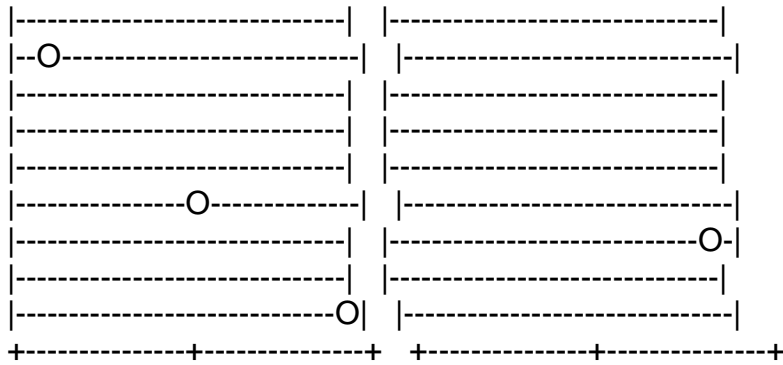
Least preclusive siting

Most preclusive siting

Availability of Channel 284 (X)

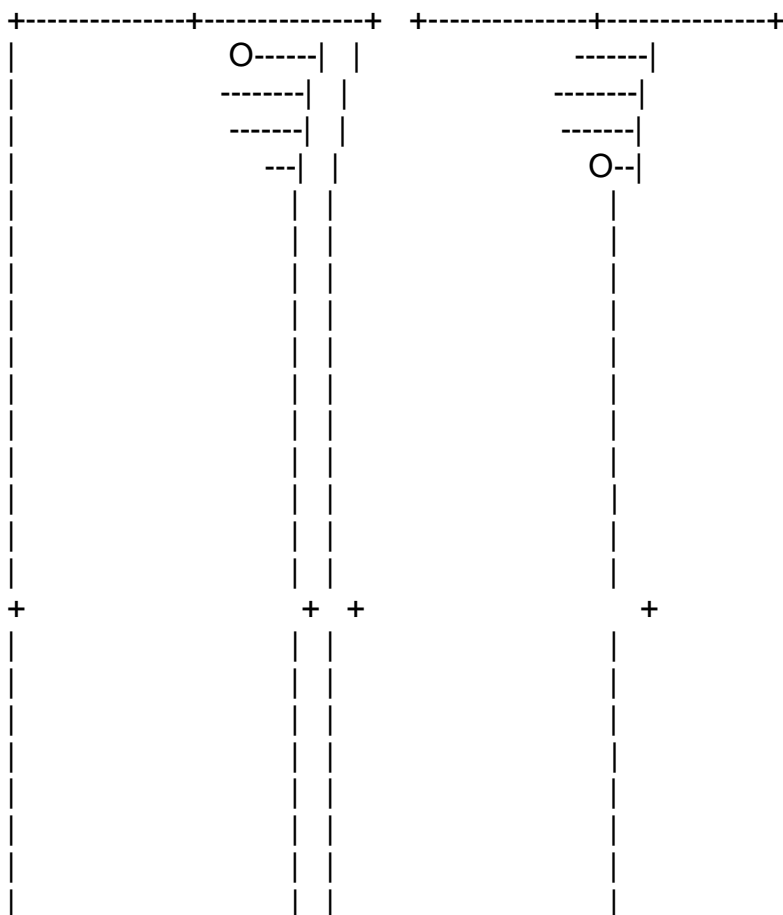
Availability of Channel 284 (X)

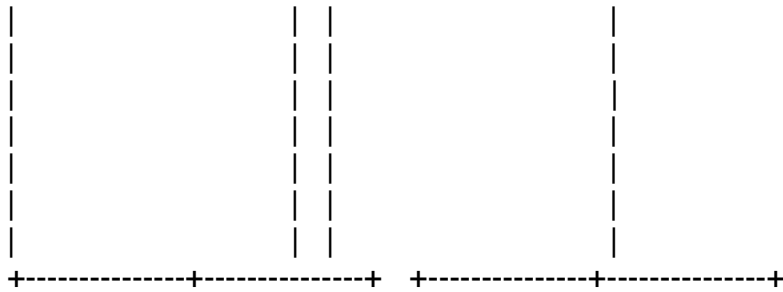




Point #026 at 26-52-54 079-48-13	Point #413 at 26-36-54 080-01-13
Point #001 at 26-27-54 079-48-13	Point #849 at 26-38-54 080-15-13
Point #169 at 26-40-54 079-53-13	Point #016 at 26-42-54 079-48-13
Point #607 at 26-44-54 080-07-13	Point #034 at 26-29-54 079-49-13
Point #438 at 26-30-54 080-02-13	
Point #876 at 26-34-54 080-16-13	

wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 285 (X)	Availability of Channel 285 (X)





Point #217 at 26-57-54 079-54-13    Point #090 at 26-54-54 079-50-13

wpb\_130415,fl

wpb\_130415,fl

Latitude 26-42-54

Latitude 26-42-54

Longitude 080-03-13

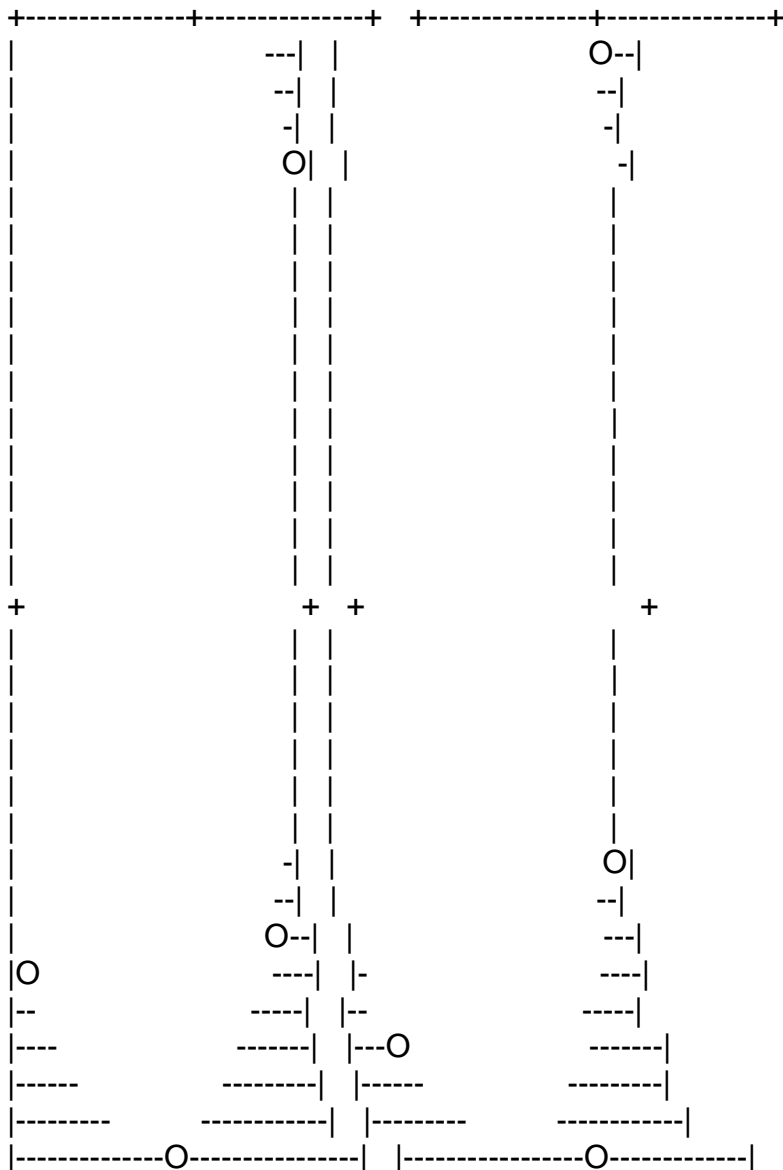
Longitude 080-03-13

Least preclusive siting

Most preclusive siting

Availability of Channel 296 (X)

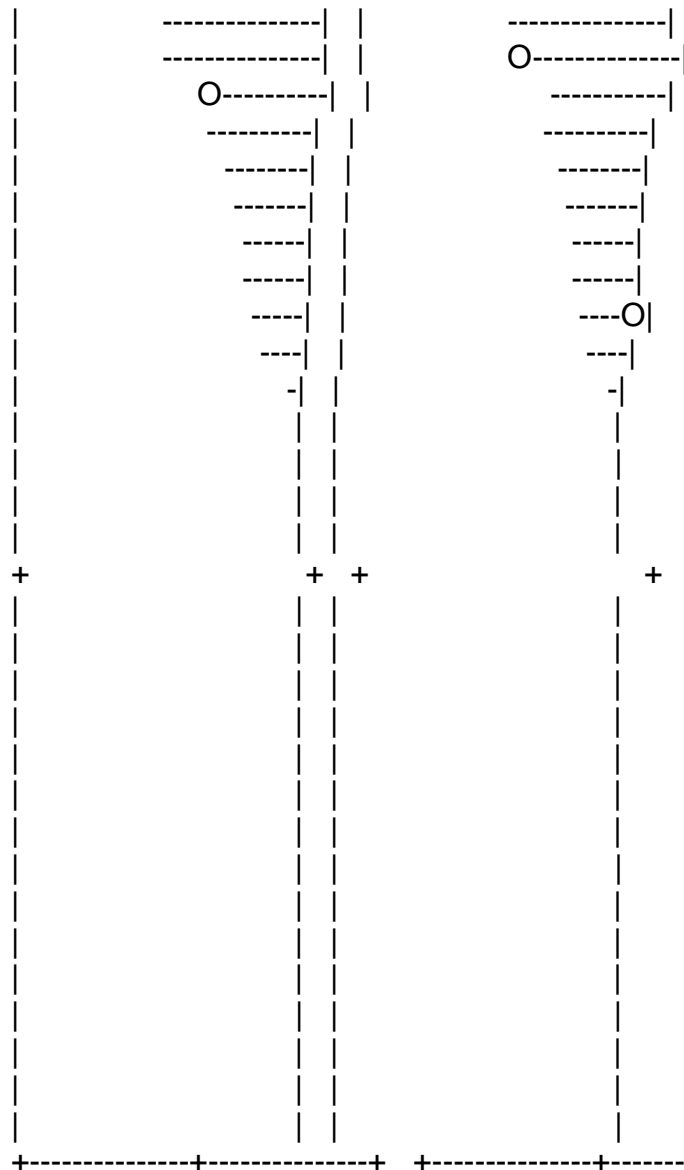
Availability of Channel 296 (X)



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

Point #028 at 26-54-54 079-48-13	Point #404 at 26-27-54 080-01-13
Point #936 at 26-32-54 080-18-13	Point #841 at 26-30-54 080-15-13
Point #497 at 26-27-54 080-04-13	Point #009 at 26-35-54 079-48-13
Point #069 at 26-33-54 079-50-13	Point #093 at 26-57-54 079-50-13
wpb_130415,fl	wpb_130415,fl
Latitude 26-42-54	Latitude 26-42-54
Longitude 080-03-13	Longitude 080-03-13
Least preclusive siting	Most preclusive siting
Availability of Channel 297 (X)	Availability of Channel 297 (X)

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



Point #339 at 26-55-54 079-58-13    Point #023 at 26-49-54 079-48-13

Point #464 at 26-56-54 080-02-13

wpb\_130415,fl

Latitude 26-42-54

Longitude 080-03-13

Least preclusive siting

Availability of Channel 298 (X)

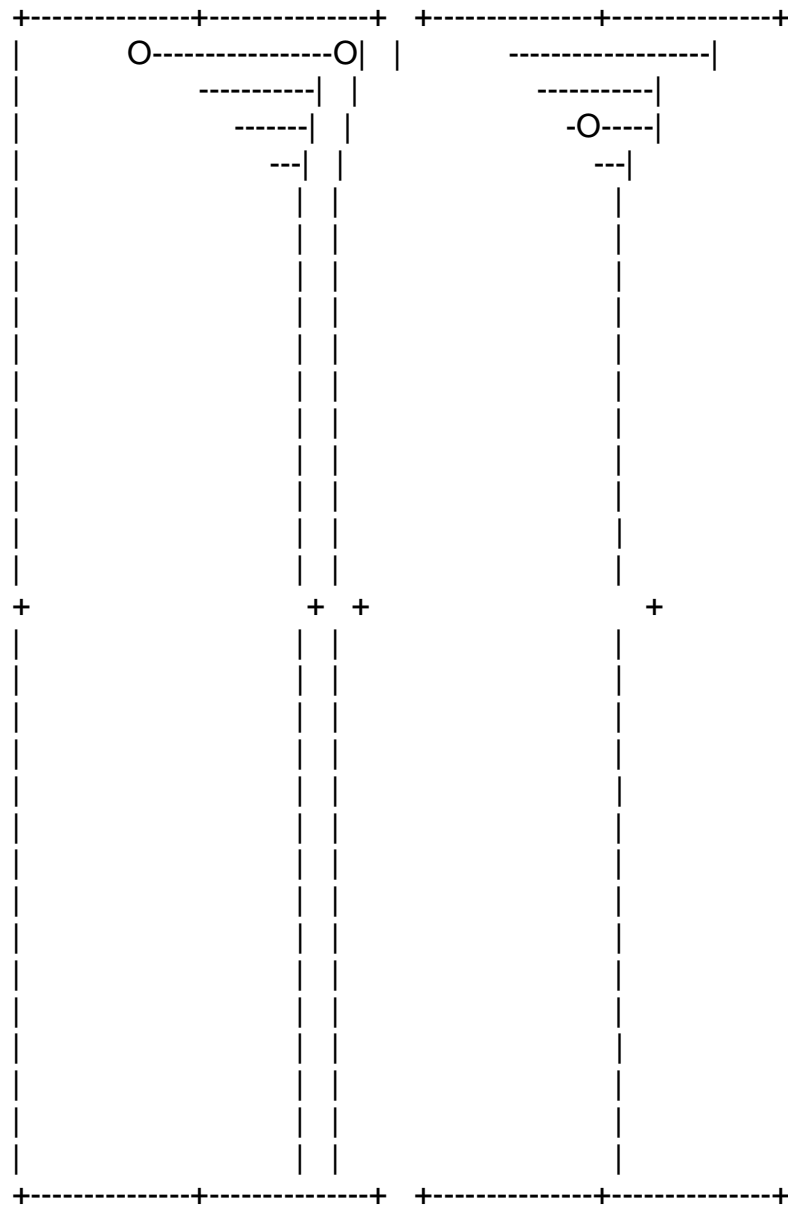
wpb\_130415,fl

Latitude 26-42-54

Longitude 080-03-13

Most preclusive siting

Availability of Channel 298 (X)



Point #589 at 26-57-54 080-06-13

Point #031 at 26-57-54 079-48-13

Point #184 at 26-55-54 079-53-13

## Grid Analysis

### Fort Pierce / Stuart, Florida

The following is a print out from the Grid Tool provided by the FCC<sup>5,6</sup>.

FtPierce\_130415,fl  
 Latitude 27-26-47  
 Longitude 080-19-33  
 Grid Size 31 x 31  
 Micro FM 100 Watts at 30m HAAT  
 Co-Channel and 1st Adjacent Protected  
 2nd Adjacent Channel 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 Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	0
201	186	221	0	241	122	261	18	281	0
202	186	222	0	242	167	262	285	282	0
203	0	223	0	243	375	263	91	283	0
204	0	224	0	244	25	264	455	284	0
205	0	225	0	245	0	265	9	285	0
206	0	226	0	246	0	266	1	286	0
207	0	227	0	247	9	267	0	287	0
208	0	228	0	248	8	268	0	288	0
209	0	229	0	249	95	269	0	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	54	271	0	291	120
212	0	232	0	252	7	272	0	292	75
213	0	233	0	253	0	273	0	293	51
214	0	234	0	254	0	274	10	294	300
215	0	235	0	255	0	275	0	295	26
216	0	236	0	256	11	276	0	296	5

<sup>5</sup> DA 12-1987 - Released: December 10, 2012 - Media Bureau Releases Updated Low Power FM - Spectrum Availability Data Files – Latest public release as of this date.

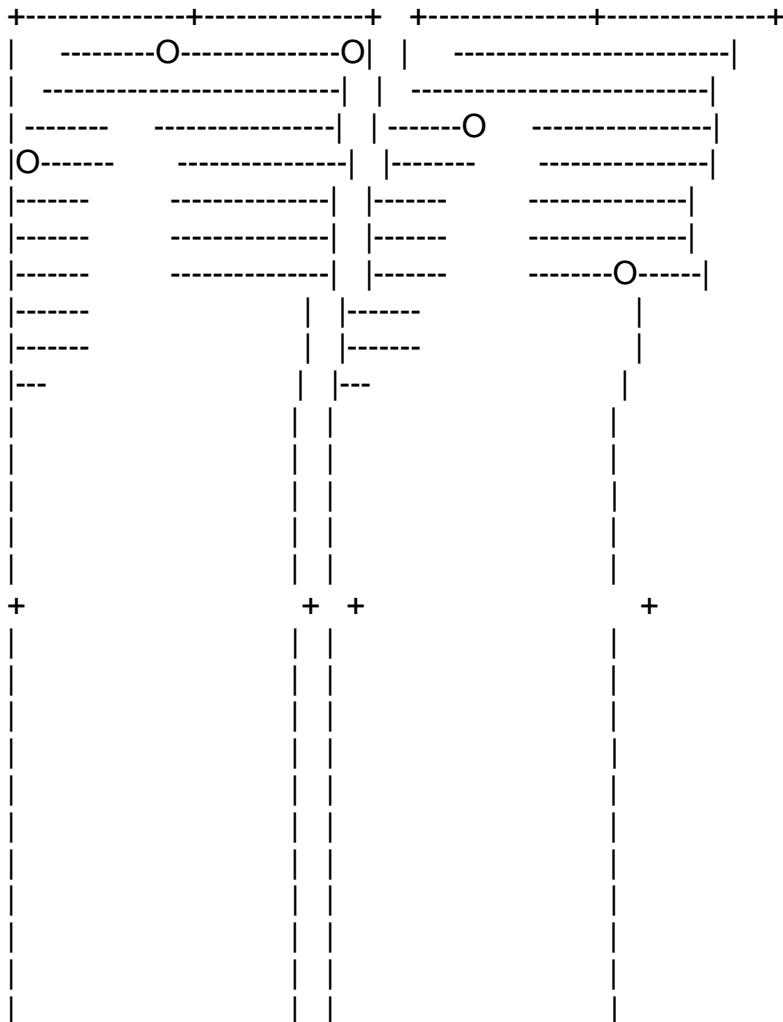
<sup>6</sup> The some channel points shown available for an LPFM on available channels are actually located in bodies of water and thus are not considered to be valid point locations for an LPFM and can not preclude an LPFM.

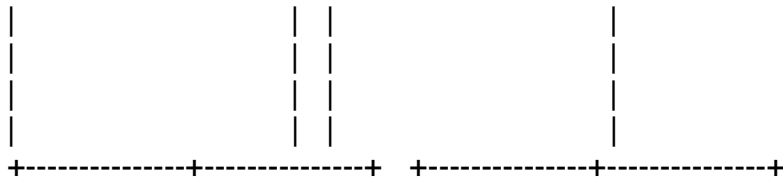


217	0	237	0	257	53	277	0	297	59
218	0	238	0	258	0	278	0	298	294
219	0	239	0	259	0	279	0	299	20
						300	0		

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Total 3117

Total allotments, least preclusive spacing:	62
Total allotments, most preclusive spacing:	52
FtPierce_130415,fl	FtPierce_130415,fl
Latitude 27-26-47	Latitude 27-26-47
Longitude 080-19-33	Longitude 080-19-33
Least preclusive siting	Most preclusive siting
Availability of Channel 201 (X)	Availability of Channel 201 (X)





Point #958 at 27-38-47 080-34-33    Point #211 at 27-35-47 080-10-33  
 Point #527 at 27-41-47 080-20-33    Point #711 at 27-39-47 080-26-33  
 Point #031 at 27-41-47 080-04-33

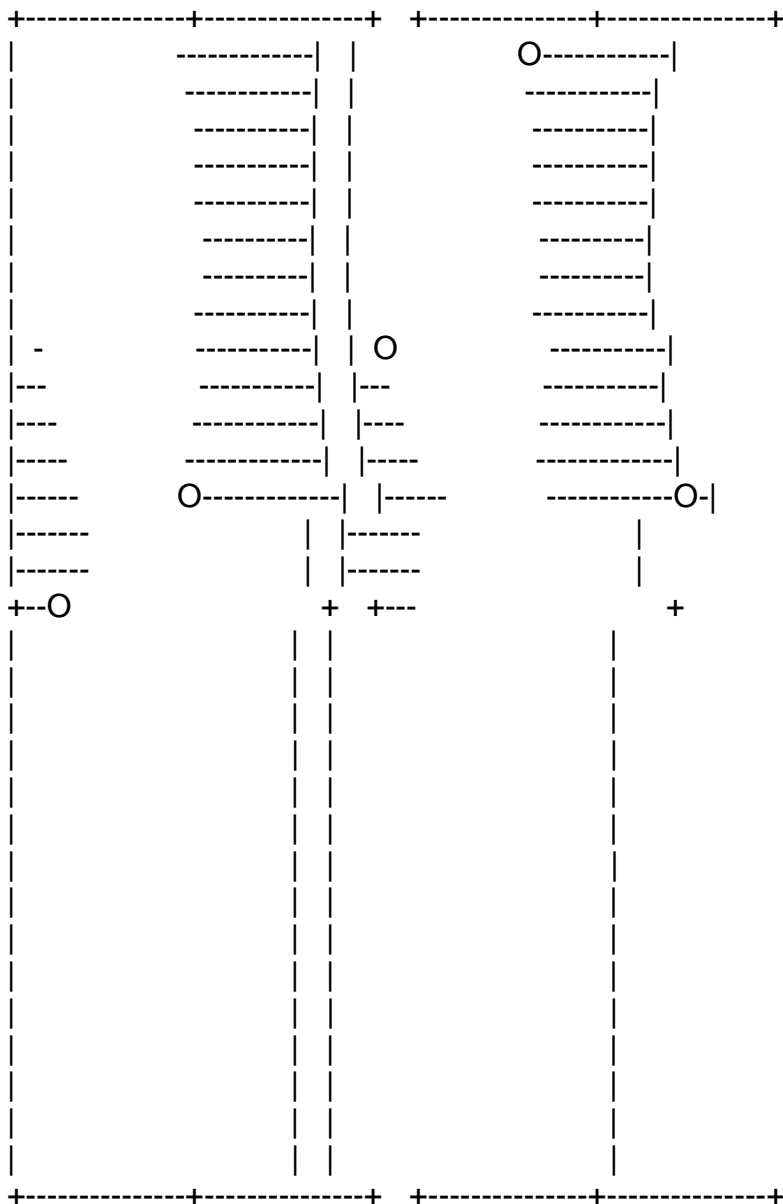
FtPierce\_130415,fl                      FtPierce\_130415,fl

Latitude 27-26-47                      Latitude 27-26-47

Longitude 080-19-33                      Longitude 080-19-33

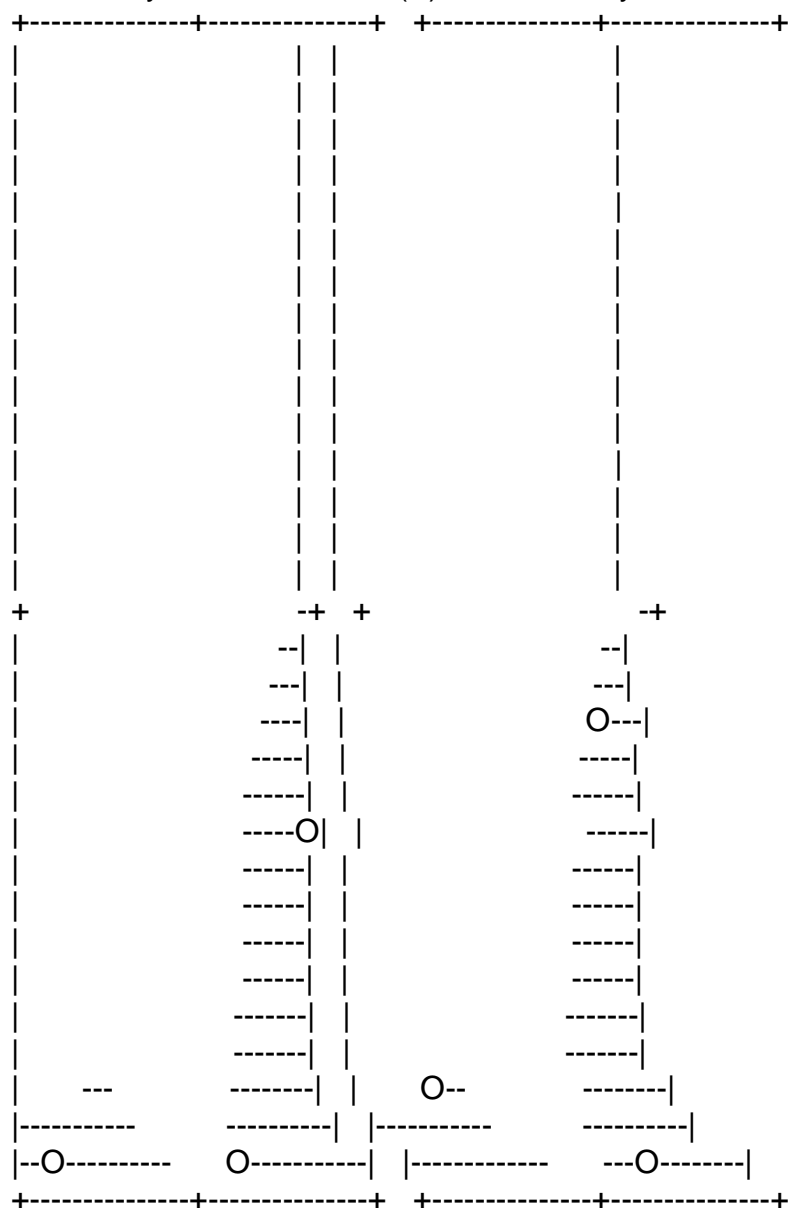
Least preclusive siting                      Most preclusive siting

Availability of Channel 202 (X)    Availability of Channel 202 (X)



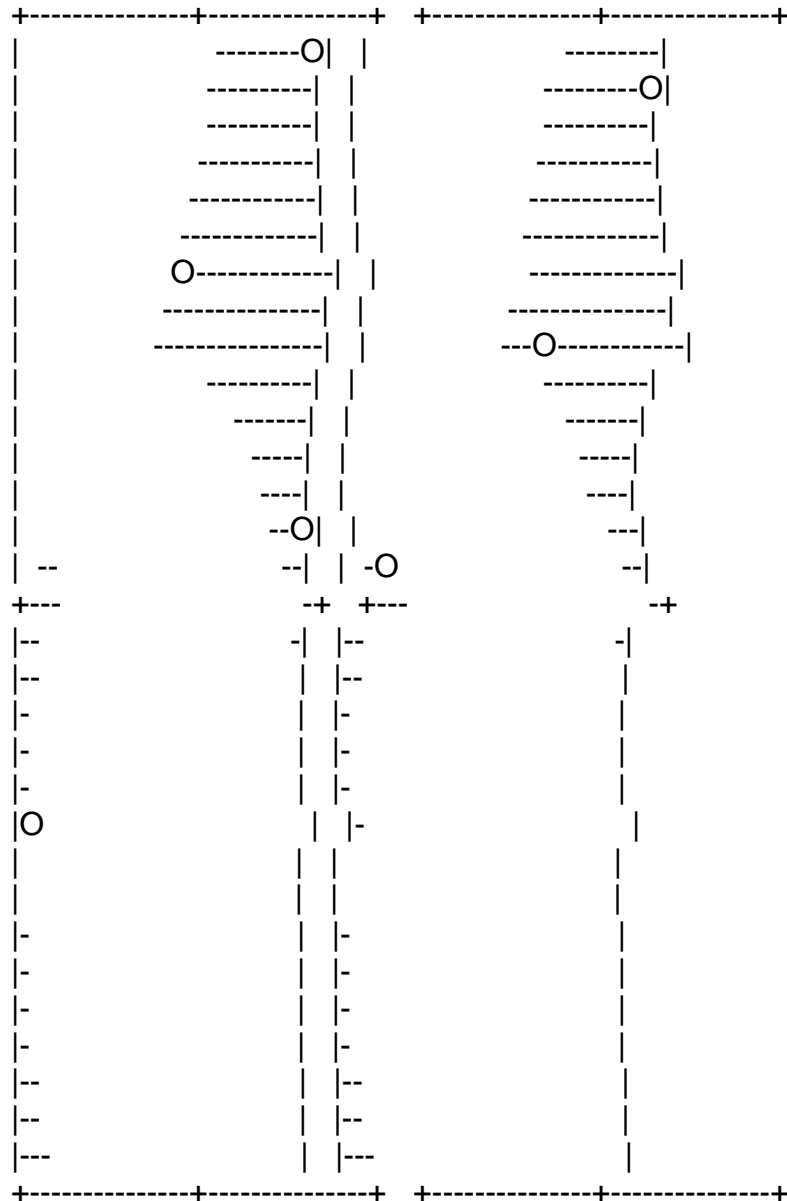
Point #884 at 27-26-47 080-32-33    Point #891 at 27-33-47 080-32-33  
 Point #422 at 27-29-47 080-17-33    Point #403 at 27-41-47 080-16-33  
 Point #050 at 27-29-47 080-05-33

FtPierce\_130415,fl                      FtPierce\_130415,fl  
 Latitude 27-26-47                      Latitude 27-26-47  
 Longitude 080-19-33                      Longitude 080-19-33  
 Least preclusive siting                      Most preclusive siting  
 Availability of Channel 241 (X)    Availability of Channel 241 (X)



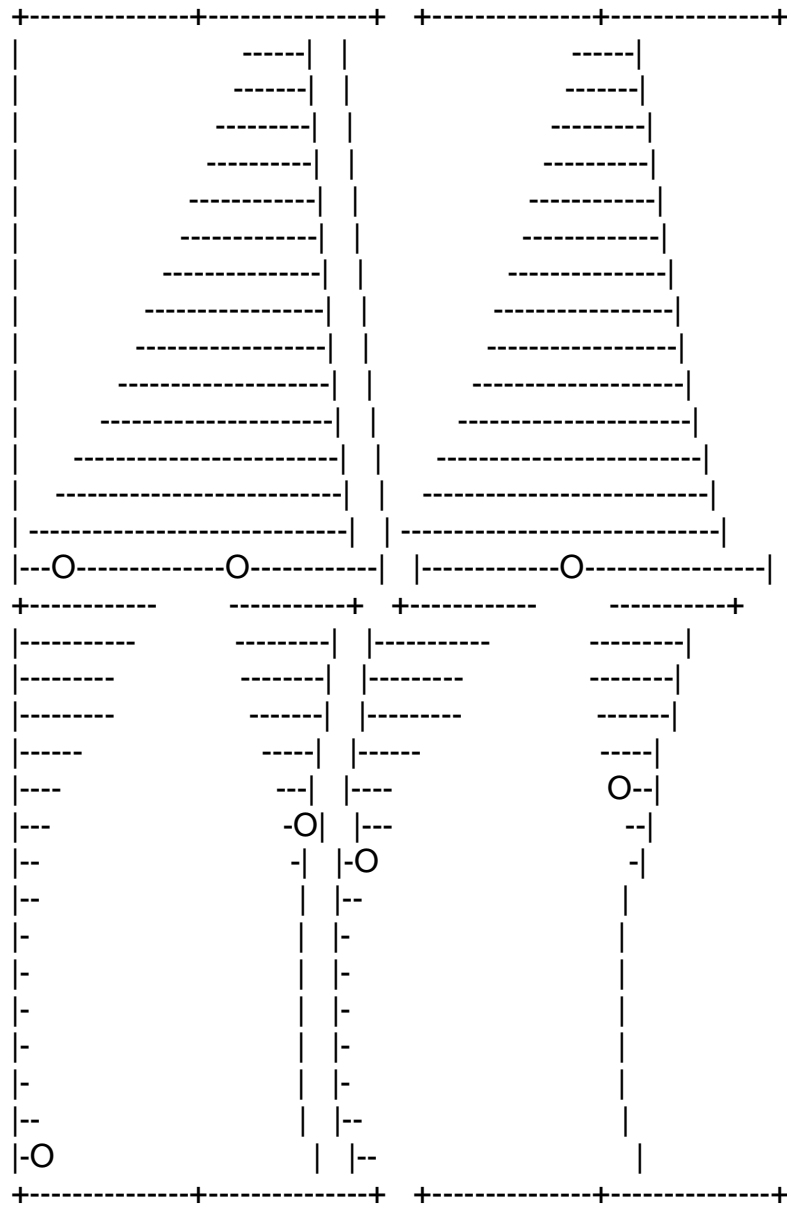
Point #869 at 27-11-47 080-32-33    Point #106 at 27-23-47 080-07-33  
 Point #342 at 27-11-47 080-15-33    Point #716 at 27-13-47 080-27-33  
 Point #010 at 27-20-47 080-04-33    Point #249 at 27-11-47 080-12-33

FtPierce_130415,fl	FtPierce_130415,fl
Latitude 27-26-47	Latitude 27-26-47
Longitude 080-19-33	Longitude 080-19-33
Least preclusive siting	Most preclusive siting
Availability of Channel 242 (X)	Availability of Channel 242 (X)



Point #940 at 27-20-47 080-34-33	Point #395 at 27-33-47 080-16-33
Point #031 at 27-41-47 080-04-33	Point #854 at 27-27-47 080-31-33
Point #018 at 27-28-47 080-04-33	Point #030 at 27-40-47 080-04-33
Point #428 at 27-35-47 080-17-33	
FtPierce_130415,fl	FtPierce_130415,fl
Latitude 27-26-47	Latitude 27-26-47
Longitude 080-19-33	Longitude 080-19-33
Least preclusive siting	Most preclusive siting

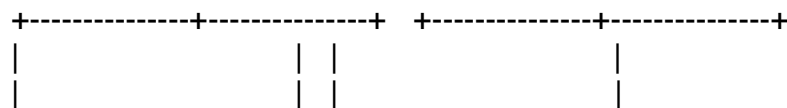
Availability of Channel 243 (X)      Availability of Channel 243 (X)

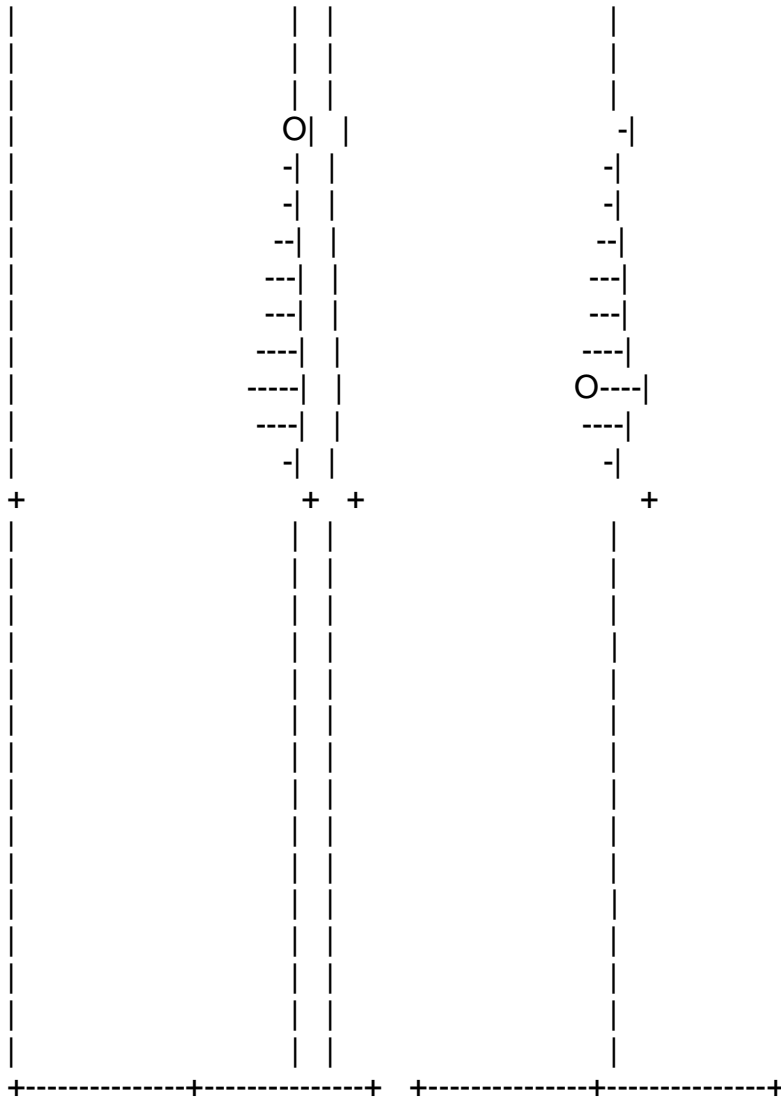


Point #900 at 27-11-47 080-33-33      Point #908 at 27-19-47 080-33-33  
 Point #010 at 27-20-47 080-04-33      Point #073 at 27-21-47 080-06-33  
 Point #389 at 27-27-47 080-16-33      Point #544 at 27-27-47 080-21-33  
 Point #854 at 27-27-47 080-31-33

FtPierce\_130415,fl      FtPierce\_130415,fl  
 Latitude 27-26-47      Latitude 27-26-47  
 Longitude 080-19-33      Longitude 080-19-33  
 Least preclusive siting      Most preclusive siting

Availability of Channel 244 (X)      Availability of Channel 244 (X)





Point #026 at 27-36-47 080-04-33    Point #143 at 27-29-47 080-08-33

FtPierce\_130415,fl

FtPierce\_130415,fl

Latitude 27-26-47

Latitude 27-26-47

Longitude 080-19-33

Longitude 080-19-33

Least preclusive siting

Most preclusive siting

Availability of Channel 247 (X)

Availability of Channel 247 (X)

