Gap and folded lengths specified in March 2015 QST article, pg 41.

Elements made from 450 Ω ladder line.

Overall height and length can be shortened by folding back the upper portion of the radiator and radials with very little change in performance (~-1.2 dB). A gap of at least 6 inches from the shorter element should be kept.

10, 6, <u>and</u> 2 m FM Vpol with another set of "close coupled resonator "+ radials"?

No gap here for the coupled (shorter) vertical resonator, it is directly connected to the center of the "coupled radials."

<u>Main</u> radiator is NOT connected to the radials, just the coax shield is. Radials can be drooped down towards 45° for a better match to the 50 Ω coax. (Other information shows 4 radials will broaden the 2.0:1 SWR bandwidth.)

Coax (50 Ω)

<u>UN</u> folded lengths:			<u>UN</u> folded	lengths:	e.g., <u>Folded</u> lengths
MHz	1/4 λ, FT + INT(234/MHz)	inches	234/MHz	= feet.decimal feet	of longest element, (See article):
28.3	8	3.22	8.268551	Novice / Tech / SSB	
28.4	8	2.87	8.239437	Novice / Tech / SSB	6.9 ft ("SSB")
28.5	8	2.52	8.210526	Novice / Tech / SSB	
29.5	7	11.18	7.932203	E/A/G FM	
29.6	7	10.86	7.905405	E/A/G FM	
29.7	7	10.54	7.878788	E/A/G FM	
50	4	8.16	4.68	CW/SSB	4.3 ft ("SSB"??)
51	4	7.05	4.58	FM	
52	4	6	4.5	FM	
53	4	4.98	4.41	FM (4.45 ft specified in u	nfolded version. FM?)
54	4	4	4.33	FM	
144	1	7.5	1.625		1.46 ft (SSB?)
145	1	7.36	1.613793		
146	1	7.23	1.60274		
147	1	7.10	1.591837		
148	1	6.97	1.581081		
435	0	6.45	0.537931		None specified.
440	0	6.38	0.531818		
445	0	6.31	0.525843		
450	0	6.24	0.52		