

	Double Extended Zepp Antenna			NVIS Antenna Height			Ground Reflector	
	Element Length Ft (B)	Matching Stub Length (C)	Total Antenna Length (D)	1/8 Wave (E)	1/10 Wave (E)	1/20 Wave (E)	Reflector Length (F)	
160 Meters								
1.8	350.00	57.22	700.00	65.00	52.00	26.00	735.00	
1.9	331.58	54.21	663.16	61.58	49.26	24.63	696.32	
2	315.00	51.50	630.00	58.50	46.80	23.40	661.50	
80 Meters								
3.5	180.00	29.43	360.00	33.43	26.74	13.37	378.00	
3.6	175.00	28.61	350.00	32.50	26.00	13.00	367.50	
3.7	170.27	27.84	340.54	31.62	25.30	12.65	357.57	
3.8	165.79	27.11	331.58	30.79	24.63	12.32	348.16	
3.9	161.54	26.41	323.08	30.00	24.00	12.00	339.23	
4	157.50	25.75	315.00	29.25	23.40	11.70	330.75	
60 Meters								
5.3305	118.19	19.32	236.38	21.95	17.56	8.78	248.19	Ch1
5.3465	117.83	19.26	235.67	21.88	17.51	8.75	247.45	Ch2
5.3665	117.53	19.21	235.07	21.83	17.46	8.73	246.83	Ch3
5.3715	117.29	19.18	234.57	21.78	17.43	8.71	246.30	Ch4
5.4035	116.59	19.06	233.18	21.65	17.32	8.66	244.84	Ch5
40 Meters								
7	90.00	14.71	180.00	16.71	13.37	6.69	189.00	
7.03	89.68	14.66	179.36	16.65	13.32	6.66	188.33	
7.13	88.42	14.46	176.84	16.42	13.14	6.57	185.68	
7.16	87.99	14.39	175.98	16.34	13.07	6.54	184.78	
7.18	87.80	14.36	175.61	16.31	13.05	6.52	184.39	
7.3	86.30	14.11	172.60	16.03	12.82	6.41	181.23	
30 Meters								
10.1	62.38	10.20	124.75	11.58	9.27	4.63	130.99	
10.15	62.07	10.15	124.14	11.53	9.22	4.61	130.34	
20 Meters								
14	45.00	7.36	90.00	8.36	6.69	3.34	94.50	
14.1	44.68	7.30	89.36	8.30	6.64	3.32	93.83	
14.2	44.37	7.25	88.73	8.24	6.59	3.30	93.17	
14.23	44.29	7.24	88.58	8.22	6.58	3.29	93.01	
14.3	44.06	7.20	88.11	8.18	6.55	3.27	92.52	
14.35	43.90	7.18	87.80	8.15	6.52	3.26	92.20	
17 Meters								
18.07	34.87	5.70	69.74	6.48	5.18	2.59	73.22	
18.11	34.79	5.69	69.57	6.46	5.17	2.58	73.05	
18.17	34.68	5.67	69.35	6.44	5.15	2.58	72.82	
15 Meters								
21	30.00	4.90	60.00	5.57	4.46	2.23	63.00	
21.1	29.86	4.88	59.72	5.55	4.44	2.22	62.70	
21.2	29.72	4.86	59.43	5.52	4.42	2.21	62.41	
21.3	29.58	4.84	59.15	5.49	4.39	2.20	62.11	
21.45	29.37	4.80	58.74	5.45	4.36	2.18	61.68	
12 Meters								
24.89	25.31	4.14	50.62	4.70	3.76	1.88	53.15	
24.99	25.21	4.12	50.42	4.68	3.75	1.87	52.94	
10 Meters								
28	22.50	3.68	45.00	4.18	3.34	1.67	47.25	
28.5	22.11	3.61	44.21	4.11	3.28	1.64	46.42	
29	21.72	3.55	43.45	4.03	3.23	1.61	45.62	
29.7	21.21	3.47	42.42	3.94	3.15	1.58	44.55	
30	21.00	3.43	42.00	3.90	3.12	1.56	44.10	