

## ***The Amateur Radio Crossword Puzzler***

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*“Music of the (Iono)Spheres”*

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Many hams either play or enjoy music, but how many have stopped to consider how many terms are found in both? Quite a few, as this quiz illustrates! Many words do dual duty for both musician and radio aficionado. You may find yourself humming along as you work out this week’s puzzle!

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Across

1. Low audio frequencies
4. Rhythm or display
8. Holds an instrument or a radio
11. Prefix meaning "no longer"
12. Identity or a famous doctor
13. One entry in a list
15. Cartesian coordinates
16. Between La and Do or strong metal (chemical symbol)
17. Measures volts (abbr)
18. Plucked to make sound or holds up antennas
20. Hypnotic state
22. Time zone between CST and AST
23. Coffee holder
24. Big music town and ARRL section
27. Reversing current
28. Greet or laugh
30. DX ..
31. If you're too loud at the concert
33. A hit in a new genre or frequency separator
37. Hold down
39. Frequency determining circuits
40. Transcendental ratio
41. Make it up or improvise (two words)
42. Change key or add information
44. From low to high frequency
47. Belarus prefix
48. Used in the sax and early PL encoders
50. City by the bay (abbr)

51. Learn by practicing
  52. Going (CW abbr)
  53. Belongs to you (CW abbr)
  54. Path over which both antennas are visible (abbr)
  55. Switches the antenna in a transceiver
  57. Source of inspiration or to consider
  61. Not paid for yet
  63. Emphasize or non-native language characteristic
  65. Person who signs off on tower plans
  66. Unmodified or not man-made
  69. Powered up
  70. First colony to become a state (postal code)
  71. Model prefix for Hallicrafters receivers
  72. Energetic or maximum power level
  73. Difference in pitch or time
- Down
1. Sum and difference of frequencies
  2. Your editor's favorite suffix
  3. Syncopated music or code
  4. Display or build a prototype
  5. What keeps everything from happening at once
  6. Phoned home
  7. Stop playing or working
  9. Line around which something spins
  10. Electronic device that generates frequencies
  14. Big Sky country (postal code)

16. Greek letter used to denote time
19. Instrument or sound storage device
21. Used to measure power in a waveform
25. Off key or by mistake
26. Unauthorized recording or transmission
27. Stand by (CW prosign)
29. Calculates voltage drop
30. Upside down chords or temperatures
32. Budapest prefix
34. Clockwise rotation (abbr)
35. Simplest type of flip-flop
36. Wind instrument or an antenna
38. Stable capacitor
41. Impedance matching device (abbr)
42. Evaluate numerically
43. Amplify or enhance
45. Audible frequencies (abbr)
46. Prefix meaning "of the Earth"
49. Used for sight-reading and found on screws
54. Permit
56. Timing circuit
58. Prefix meaning "not"
59. Lead performer or heavenly body
60. Type of dance or holder of wound rope
62. Grow larger
64. Prefix meaning "opposite"
65. Device that stores music files (abbr)
67. Where the antennas go
68. Provides wireless network connection (abbr)

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11	E	X	W	12	H	O	13	I	T	E	14	M	15	X	Y	G	A	N	I																
20	T	21	R	A	N	C	E	E	E	T	22	E	S	T	23	M	24	G	25	A	26	B	27	A	28	H	29	I							
30	I	S	31	S	32	H	33	C	34	R	O	S	S	O	S	V	E	R	N	36	H	37	A	38	N	C	H	O	R	R	S				
39	V	F	O	S	40	P	I	T	41	A	D	L	I	B	E	R	42	M	O	D	U	L	A	43	T	E	Z	D	E	E	49	E	D		
44	R	A	N	G	46	E	E	E	47	E	U	R	48	E	49	E	R	50	S	F	51	E	A	R	N	52	G	G	53	Y	R	60	R		
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61	O	W	E	62	U	63	A	C	64	C	E	N	T	65	P	E	66	N	A	T	67	U	R	A	L	68	O	N	A	70	D	E	71	S	X
66	N	A	T	67	U	R	A	L	68	O	N	A	70	D	E	71	S	X	72	P	E	P	73	I	N	T	E	R	V	A	L				