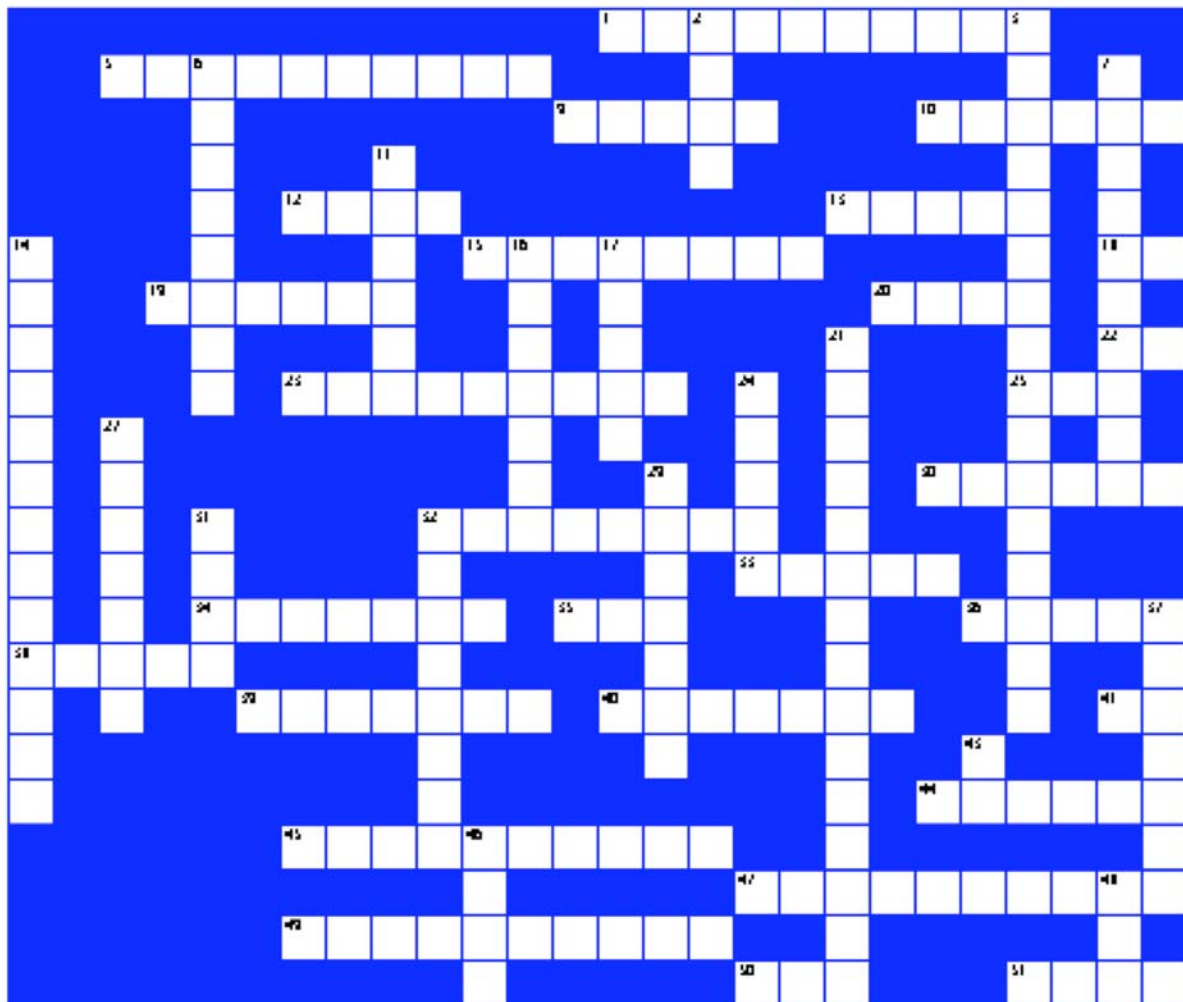


Ocean Acoustics



Across

1. Disappearing
5. One of many rivers in the ocean with interesting effects.
8. Opposite of fast in Munich
9. Type of float; Time reversal of 17 across
10. Where no ray goes
12. Collimated sound
13. Name of the ranch where the sons raise meat
15. Odd little first arrival.
18. Sleepy bar; way to associate errors and actions
19. Sound always comes back to the top in these waters.
20. Distinguished institution; Expression of joy or enthusiasm
22. Toothpaste additive; electronic glasses for acoustic arrays
23. Seven sciences claimed claimed him for their own

Down

2. Follows a tic
3. Effect of shifting into reverse or
4. Michelin-rated RV
6. Widely used scattering law of q
7. Par for the course
11. Pressure unit
14. One very important angle
16. From Greek, an image
17. Impulsive function
21. High on L.A. freeways
24. Says hello
26. Name associated with an exp. source into planewaves.
27. Name associated with a fluid l halfspace
28. Name associated with dipole j source reflected in the ocean surf

- 25. Oldest oceanographic institute in the U.S.
 - 30. Name associated with an interface wave for an elastic layer over an elastic halfspace
 - 32. Acoustician at a party
 - 33. Very long distance
 - 34. Heard in siren sound
 - 35. First federal agency to sponsor scientific research in the U.S.
 - 36. Eyewash chemical that absorbs sound
 - 38. Opposite of signal?
 - 29. Scientific advisor to Napoleon
 - 31. When the check comes
 - 32. Ghostly
 - 37. Burning
 - 42. Biker bar in San Diego; mode
 - 43. One-way wave equation
 - 46. Spinning blob of water
 - 48. Edison invention
-

Across

- 39. From Greek, to burn
- 40. Part of a Bel
- 41. Famous oceanographer whose name is associated with an internal wave spectrum, a deep water sound speed profile, and spice, amongst many other things.
- 44. Needed a bigger margin
- 45. Serious thought
- 47. ASA Meeting
- 49. Seldom lives up to its name
- 50. Normal to a wavefront
- 51. Famous poet and wave theorist