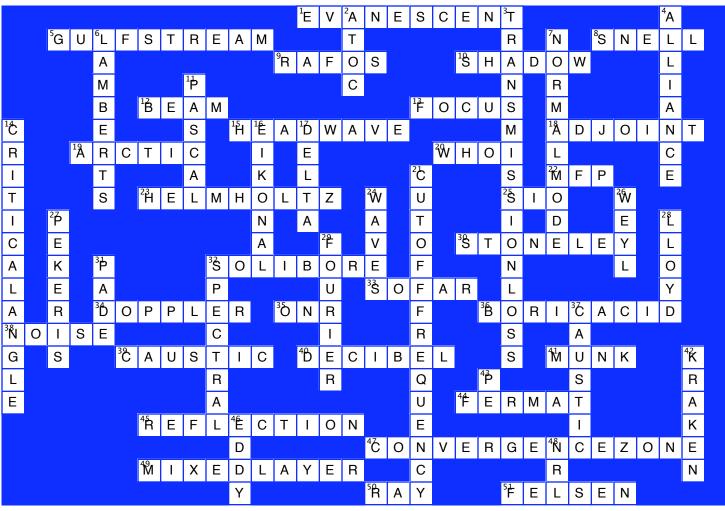
Ocean Acoustics



Across

- 1. Disappearing [EVANESCENT]
- 5. One of many rivers in the ocean with interesting effects. [GULFSTREAM]
- 8. Opposite of fast in Munich [SNELL]
- 9. Type of float; Time reversal of 17 across [RAFOS]
- 10. Where no ray goes [SHADOW]
- 12. Collimated sound [BEAM]
- 13. Name of the ranch where the sons raise meat [FOCUS]
- 15. Odd little first arrival. [HEADWAVE]
- 18. Sleezy bar; way to associate errors and actions [ADJOINT]
- 19. Sound always comes back to the top in these waters. [ARCTIC]
- 20. Distinguished institution; Expression of joy or enthusiasm [WHOI]
- 22. Toothpaste additive; electronic glasses for acoustic arrays [MFP]
- 23. Seven sciences claimed claimed him for their own [HELMHOLTZ]
- 25. Oldest oceanographic institute in the U.S. [SIO]
- 30. Name associated with an interface wave for an elastic layer over an elastic halfspace [STONELEY]
- 32. Acoustician at a party [SOLIBORE] 33. Very long distance [SOFAR]
- 34. Heard in siren sound [DOPPLER]

Down

- 2. Follows a tic [ATOC]
- 3. Effect of shifting into reverse on freeway [TRANSMISSIONLOSS]
- 4. Michelin-rated RV [ALLIANCE]
- 6. Widely used scattering law of questionable merit [LAMBERTS]
- 7. Par for the course [NORMALMODE]
- 11. Pressure unit [PASCAL]
- 14. One very important angle [CRITICALANGLE]
- 16. From Greek, an image [EIKONAL]
- 17. Impulsive function [DELTA]
- 21. High on L.A. freeways [CUTOFFFREQUENCY]
- 24. Says hello [WAVES]
- 26. Name associated with an expansion of a point source into planewaves. [WEYL]
- 27. Name associated with a fluid layer over a fluid halfspace [PEKERIS]
- 28. Name associated with dipole pattern due to a source reflected in the ocean surface [LLOYD]
- 29. Scientific advisor to Napoleon's army [FOURIER]
- 31. When the check comes [PADE]
- 32. Ghostly [SPECTRAL]
- 37. Burning [CAUSTIC]
- 42. Biker bar in San Diego; mode code [KRAKEN]
- 43. One-way wave equation [PE]
- 46. Spinning blob of water [EDDY]
- 48. Edison invention [NRL]

Across

35. First federal agency to sponsor scientific research in the U.S. [ONR]

36. Eyewash chemical that absorbs sound [BORICACID]
38. Opposite of signal? [NOISE]

39. From Greek, to burn [CAUSTIC]

40. Part of a Bel [DECIBEL]

41. Famous oceanographer whose name is associated with an internal wave spectrum, a deep water sound speed profile, and spice, amongst many other things. [MUNK]

44. Needed a bigger margin [FERMAT]
45. Serious thought [REFLECTION]
47. ASA Meeting [CONVERGENCEZONE]

49. Seldom lives up to its name [MIXEDLAYER] 50. Normal to a wavefront [RAY]

51. Famous poet and wave theorist [FELSEN]