Radar Echoes

ACROSS
1. Alphabet starter
4. Airspace category for mid-sized airports such as Anchorage, Indianapolis, and Sarasota
10. Egyptian goddess
14. Bossa nova mecca, familiarly
15. Unload on, in a way
16. Squeal
17. Vintage film channel
18. Modified a transmitted signal using Barker codes, e.g.
20. Field of vision?
22. The Keydet's sch.
23. -
24. "Jackie ___ First Strike" (1996 movie)
25. El Camino ___
26. Improv ending?
27. Like a sensor exploiting the spin angular momentum properties of photons
28. Suspects
30. -
33. River isle
34. Any host of "My Brother, My Brother and Me" podcast
35. Hot air
39. Autocorrelation ___
40. Active sensing technique using discrete transmission bursts to measure target velocity
41. Hunky-dory
45. -
46. Nev. neighbor
47. You are, in Toledo
48. U.S. military jets used in Vietnam
50. Unlike 40-Across, a remote sensing method that transmits signal all the time
51. Brand IDs
52. Waterskiing line
54. -

DOWN
1. Commedia dell'___
2. Molecule type with two rings of atoms
3. Plea to Lassie
4. One might watch a filibuster on it
5. Glassware ovens
6. Winglike parts
7. Classic Mercedes roadsters
8. Martin and McQueen
9. Narrow end of a cloud system shaped like a punctuation mark
10. "___ be a mistake"
11. Riyadh natives
12. Sickest, in both bad and good senses
13. What Panthers and Penguins may wear
19. 11-Down own many of them
21. Star in Auriga whose name means "little she-goat"
25. Burns or Flair
27. Appendage
28. Frequent HGTV theme
29. Speaker
31. Find as the origin
32. Oncetime CBS News anchor
35. Gronk, now
36. They turn Morris into "Boris" in "Freaky Friday"
37. Language of kitten memes
38. Method to model turb. fluxes in many oceanic models
40. Sleuthing agts.
41. A slice of Swiss?
42. Junk jewelry alloy
43. Al fresco meal
44. Vigoda's "The Godfather" role
48. Retinal area with sharpest vision
49. Rear the rear?
52. Ankle bones
53. Avant-garde
55. Cuz's pop
56. Audio file extension

See page 1006 for the answers to this puzzle.
AMS career services asked Alicia Wasula, president of STM Weather, what a day in her field can look like:

“It’s never the same! I may be teaching a class, writing a report, doing business administration and development work, meeting with clients to brief them on findings, working with subcontractors, doing a talk at an elementary school, or testifying at a trial. Forensic work and being a small-business owner are so varied and wide-ranging, which is both challenging and gratifying, and definitely never boring.”

AMS career services provides valuable resources such as career profiles, job outlooks, interviews with weather, water, and climate scientists, and much more. For Wasula’s full interview and more career profiles, visit the Career Resources page at https://www.ametsoc.org/index.cfm/ams/education-careers/careers/career-guides-tools/all-about-careers-in-meteorology/career-profiles/.

Answers to the puzzle on page 1003.