

NOWCAST

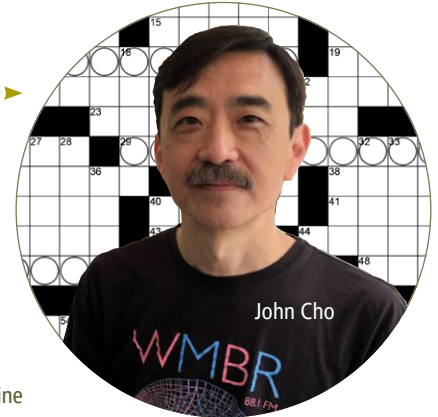
- 621** **Parcels:** Reevaluating Rain/Snow Temperature Thresholds; Wildfire Aerosols Reach the Stratosphere; Cloud Breaks Cold Top Record; Weak Winds and Sunlight Spawn Clouds; Weather Wreaks Havoc on Shipping Containers; Analyzing Planetary Raindrops
- 629** **Visualizing Data:** Dolueg: A Measurement Network's Face, by Robert Spirig et al.

READINGS

- 667** **Listening to Climate Change:** An interview with Devi Lockwood
- 670** **In Brief:** Angry Weather; A Cold Welcome; Understanding Severe and Unusual Weather

45 BEACON

- 673** **Letter from Headquarters:** An Impressive Response from the AMS Community in Providing Ideas on How to Address Climate Change, by Keith Seitter
- 674** **Member Spotlight:** Anne Thompson, Marshall Shepherd
- 676** **More than a Scientist:** John Cho
- 676** **Supporting Students:** Naval Weather Service Association Scholarship
- 678** **Obituaries:** Sergej Zilitinkevich
- 680** **AMS Boards and Committees:** Nothing New Under the Sun, by Barbara Mayes Boustead
- 683** **Chapter Spotlight:** Iowa State University
- 683** **Do Points:** Student Conference Abstract Submission Deadline
- 685** **Living on the Real World, with William H. Hooke:** Policy Nous: The Superpower You Use to Harness Your Science to "The Benefit of Life"
- 686** **Careers:** Rob Cifelli

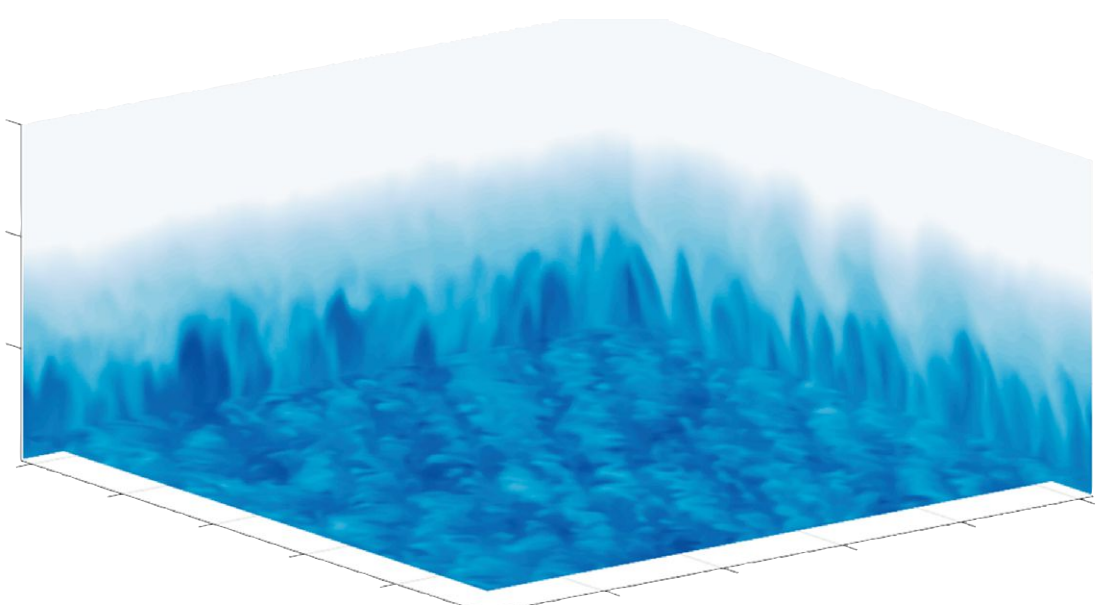


DEPARTMENTS

- 614** Precursors **691** Meetings Calendar
- 687** Call for Papers **698** Outlooks

The instantaneous contours of liquid water content from large-eddy simulations of an idealized fog case.

PAGE 640



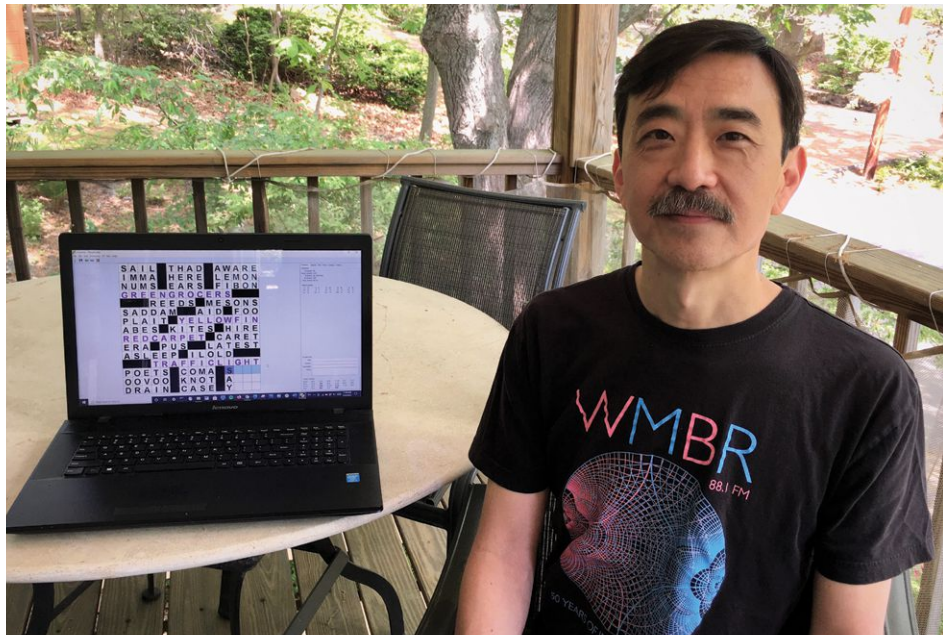
MORE THAN A SCIENTIST

John Cho

Senior Staff,
MIT Lincoln
Laboratory

What is your favorite aspect of what you currently do as a scientist?

When I was young, my favorite aspect of being an atmospheric scientist was conducting field experiments in off-the-beaten-path places like Greenland and Kiribati. As I grew older, my life settled down, and my work tended more



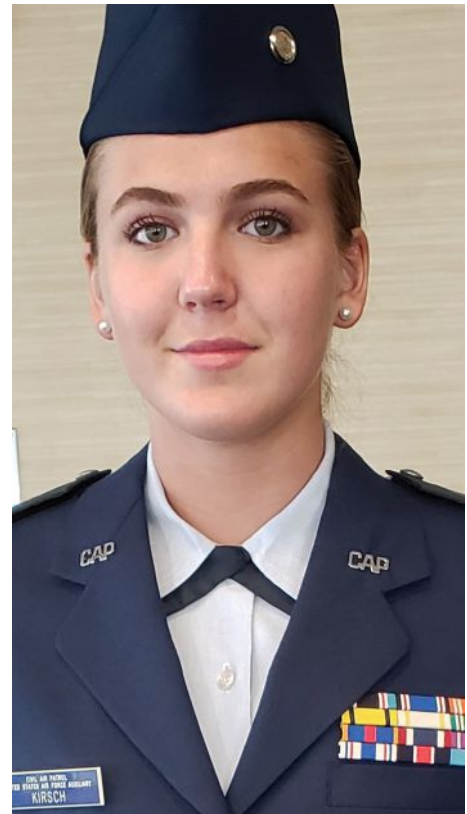
SUPPORTING STUDENTS

Naval Weather Service Association Scholarship

The AMS Freshman Undergraduate Scholarship program scholarships are sponsored by partners in industry, as well as through named scholarships either established by an AMS member or in memory of an individual. The sponsors of these scholarships recognize the importance in encouraging young people to enter the atmospheric and related sciences and have made generous contributions in support of the program.

“This award has been an inspiration to reach for the stars within my first year at Purdue University. I was able to formulate connections in the College of Sciences and create bonds with esteemed professors. In addition, I joined Purdue’s Meteorological Association (PUMA) and earned a 4.0 within my atmospheric science major. The AMS scholarship, sponsored by the Naval Weather Service Association, has motivated me for success as a freshman in college. I look forward to seeing the opportunities that arise as I complete an undergraduate degree and start a career as Weather Officer in the armed forces.”

—Vada J. Kirsch, AMS Freshman Undergraduate Scholarship recipient, sponsored by the Naval Weather Service Association



toward developing algorithms and analyzing data that others have collected. My happiest moments at work now are when I discover something never seen before by looking at data in an original way.

What are one or two things you do for fun that make you #morethanascientist?

With COVID having shut down my music ensemble activity and travel plans, I found myself getting into the stereotypically “senior” hobbies of birding and solving crossword puzzles. Soon, I also began constructing crosswords. Having dabbled with haiku in the past, the arrangement of words under strict constraints to form an aesthetically satisfying product appealed to me.

What does a “work-life balance” mean to you?

For some people, vocation and avocation are identical or inseparable. Not so, for me. I’ve always maintained a sharp boundary between the two in order to do the best job that I can for the former and to enjoy the latter independently. But perhaps constructing puzzles for AMS is fuzzifying that boundary! We’ll have to see how this goes—it’s *terra incognita* for me.

Phase Change

ACROSS

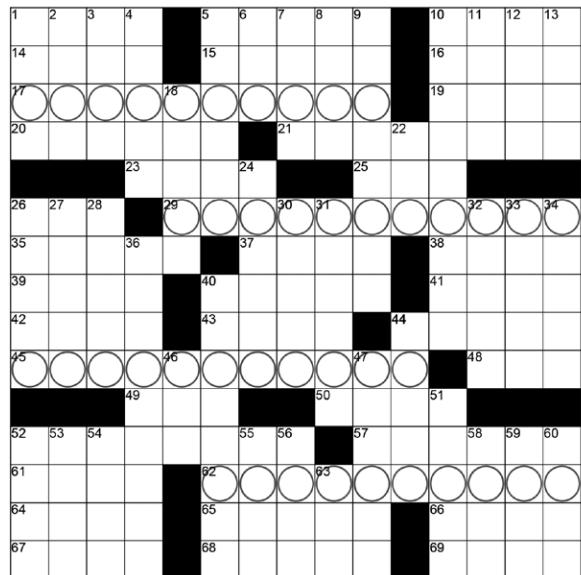
- 1. Establish age
- 5. Sign of early fall?
- 10. "Cosmopolitan" competitor
- 14. White House office
- 15. Subjects
- 16. Crave
- 17. What facials turn into when left on too long?
- 19. Lean
- 20. "Another one!"
- 21. Colonial Boston Harbor event
- 23. Pup ____
- 25. Vessel
- 26. 39-Across may back them up
- 29. Documented volcanic (e)vents?
- 35. Tiny amounts
- 37. Undiluted
- 38. Tick-borne disease
- 39. See 26-Across
- 40. Disrespectful kids
- 41. Hibernia
- 42. Pipe part
- 43. What you are reading now
- 44. Altar egos?
- 45. Gas money?
- 48. Spot
- 49. Bar
- 50. Call
- 52. Those we send to college?
- 57. Tweaks
- 61. Pharmacy item
- 62. Aqua fina?
- 64. Pound in meters?
- 65. With 68-Across, what most borrowers would like to do if they could
- 66. The Space Needle was built for one
- 67. Capetown gold

- 68. See 65-Across
- 69. ____ party

DOWN

- 1. Medicate
- 2. A star bloom in reverse?
- 3. Drying powder
- 4. "Middlemarch" author
- 5. Rue
- 6. It can take a rollover
- 7. Defeat
- 8. Libertine
- 9. Strikes
- 10. Like particles affected by Einstein's "spooky action at a distance"
- 11. Ogle
- 12. Lead-in to Easter
- 13. Current spin-off
- 18. Attire
- 22. Word with bono or tip
- 24. Osaka's game
- 26. He excommunicated Elizabeth I
- 27. ____ Rica
- 28. Soak
- 30. Seemingly forever
- 31. Interwoven
- 32. Greek wraps
- 33. "Speed Racer" star Hirsch
- 34. Obtuse
- 36. Like Korean "turtle ships" that helped repel 16th century Japanese attacks
- 40. Like George Clooney's cheeks in late afternoon, perhaps
- 44. Hayes, who scored "Shaft"
- 46. Bunk
- 47. Solution strengths, in London
- 51. Fishing complements or compliments for phishing
- 52. At all
- 53. "Cabaret" star
- 54. Make
- 55. A bit done
- 56. Jab
- 58. Ariana Grande's "Thank U, ____"
- 59. Madrid morsel
- 60. A temperature inversion may make it worse
- 63. Superlative ending

John Nagamichi Cho



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See page 686 for the answers to this puzzle, and keep an eye out for more puzzles from John Cho in future issues of BAMS.

CAREERS

AMS career services asked *Rob Cifelli*, research meteorologist at NOAA Physical Sciences Laboratory, what he liked most about his job and what he found most challenging.

“We do really cool stuff at NOAA—trying to understand why rain or snow leads to flooding in one place vs. another or what triggers droughts and what ends them. All this is used to improve forecasts, and people rely on these forecasts to make all kinds of important decisions, from ‘Should I go play golf today?’ to ‘Should we release water out of this reservoir ahead of this next storm to prevent a flood?’. The work is challenging both from an observational and modeling (forecast) perspective for a variety of reasons: some relating to improving model physics and others relating to the observations we collect (e.g., just how much rain or snow actually fell in that last storm and how uncertain are our measurements?). In addition to the research, the people are what make the job really fun. I work with scientists and engineers who are dedicated to their work and NOAA’s mission.”



AMS career services provide valuable resources such as career profiles; job outlooks; interviews with weather, water, and climate scientists; and much more. For Rob’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/>.

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WATER ->	P	C	S		S	T	E	A	M	L	O	G	G	E	D
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LIQUID ->	V	A	P	O	R	A	S	S	E	T	S		S	E	E
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ICE ->	V	I	A	L		W	A	T	E	R	C	R	E	A	M
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	R	A	N	D		D	E	B	T	S		S	T	A	G

Answers to the puzzle on page 677. Keep an eye out for more puzzles from John Cho in future issues of BAMS.