

Sang-Ki Lee

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Education

PhD, Old Dominion University, Norfolk, Va (Oceanography)	1995
MSc, Old Dominion University, Norfolk, Va (Oceanography)	1993
BSc, Inha University, Incheon, South Korea (Oceanography)	1991

Professional Service

Oceanographer, AOML, NOAA	2016 - Present
Scientist, CIMAS, University of Miami	2011 - 2016
Associate Scientist, CIMAS, University of Miami	2007 - 2011
Assistant Scientist, CIMAS, University of Miami	2005 - 2007
Postdoctoral Research Associate, CIMAS, University of Miami	2002 - 2004
Senior Research Engineer: Maritime Research Institute, Samsung Heavy Industries	1996 - 2001

Publications in FY24-25: H-index = 38; Total publications = 99

Chung, E.-S., S.-J. Kim, **S.-K. Lee**, K.-J. Ha, S.-W. Yeh, Y. Kim, S.-Y. Jun, J.-H. Kim and D. Kim, 2024. Tropical eastern Pacific cooling trend reinforced by human activity. *npj Climate and Atmospheric Science*, 7, 170. <https://doi.org/10.1038/s41612-024-00713-2>

Kim, D., **S.-K. Lee**, H. Lopez, J.-H. Jeong, J.-S. Hong, 2024. An unusually prolonged Pacific-North American pattern promoted the 2021 winter Quad-State Tornado Outbreaks. *npj Climate and Atmospheric Science*, 7, 133. <https://doi.org/10.1038/s41612-024-00688-0>

Gomez, F.A., R. Wanninkhof, L. Barbero, and **S.-K. Lee**, 2024: Mississippi River chemistry impacts on the interannual variability of aragonite saturation state in the northern Gulf of Mexico. *Journal of Geophysical Research-Oceans*, 129(2):e2023JC020436, <https://doi.org/10.1029/2023JC020436> 2024

Lee, S.-K., D. Kim, F. Gomez, H. Lopez, D. Volkov, S. Dong, R. Lumpkin, and S. Yeager, 2024. A pause in the weakening of the Atlantic meridional overturning circulation since the early 2010s. *Nature Communications*, 15, 10624. <https://doi.org/10.1038/s41467-024-54903-w>

Lopez, H., **S.-K. Lee**, R. West, D. Kim, G. Foltz, G. Alaka, and H. Murakami, 2024. Projected increase in the frequency of extremely active Atlantic hurricane seasons. *Science Advances*, 10(46): eadq7856, <https://doi.org/10.1126/sciadv.adq7856>

Tuchen, F.P., R.C. Perez, G.R. Foltz, P. Brandt, A. Subramaniam, **S.-K. Lee**, R. Lumpkin, and R. Hummels, 2024: Modulation of equatorial currents and tropical instability waves during the 2021 Atlantic Niño. *Journal of Geophysical Research-Oceans*, 129(1):e2023JC020431, <https://doi.org/10.1029/2023JC020431>

Under Review

Kim, D., **S.-K. Lee**, H. Lopez, R. West, G.R. Foltz, J.-S. Hong, and S.-W. Yeh, 2025, Atlantic Niño increases tropical cyclone landfall risk in Korea and Japan. *Science Advances*, Submitted.

West, R., H. Lopez, **S.-K. Lee**, D. Kim, A. E. Mercer, G. R. Foltz, and H. Wang, 2024. Skilled sub-basin forecasts of seasonal Atlantic hurricane activity. *Weather and Forecasting*, In-review.

Current Research Projects

NOAA/OAP (PI): High-resolution ocean-biogeochemistry modeling for the East & Gulf coasts of U.S.

NOAA/OAR (PI): Climate Ecosystem Fishery Initiative (CEFI) Research

NOAA/OAR (PI): Climate-Fishery Research

NOAA/OAR (Collaborator): Nested Global Modeling

NOAA/NGI (Collaborator): Toward building a subseasonal-to-seasonal red tide and hypoxia warning system for the West Florida Shelf fisheries: Part I. hindcast simulations and validation.

NOAA/NGI (Collaborator): Asymmetric influences of the Pacific and Atlantic Oceans on the decadal drought frequency in the southeast U.S.