

## **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    |

### **Selected publications during 2017 - 2018: H-index = 23; Total publications = 67**

Gomez, F. A., **S.-K. Lee**, Y. Liu, F. J. Hernandez Jr., F. E. Muller-Karger, and J. T. Lamkin, 2018: Seasonal patterns in phytoplankton biomass across the northern and deep Gulf of Mexico: A numerical model study. *Biogeosciences*, 15, 3561-3576.

**Lee, S.-K.**, H. Lopez, E.-S. Chung, P. N. DiNezio, S.-W. Yeh and A. T. Wittenberg, 2018: On the fragile relationship between El Nino and California rainfall. *Geophys. Res. Lett.*, 45, 907-915.

Lopez, H, R. West, S. Dong, G. Goni, B. Kirtman, **S.-K. Lee**, and R. Atlas, 2018: Early emergence of anthropogenically-forced heat waves in the western US and Great Lakes. *Nature Clim. Change*,

Dong, J., R. Domingues, G. Goni, G. Halliwell, H. Kim, **S.-K. Lee**, M. Mehari, F. Bringas, J. Morell, and L. Pomales, 2017: Impact of assimilating underwater glider data on Hurricane Gonzalo (2014) forecast. *Wea. Forecasting.*, 32, 1143-1159.

**Lee, S.-K.**, D. Volkov, H. Lopez, W. G. Cheon, A. L. Gordon, Y. Liu, and R. Wanninkhof, 2017: Wind-driven ocean dynamics impact on the contrasting sea-ice trends around West Antarctica. *J. Geophys. Res. Oceans*, 122, 4413-4430.

Muhling, B. A., R. Brill, J. T. Lamkin, M. A. Roffer, **S.-K. Lee**, Y. Liu, and F. Muller-Karger, 2017: Projections of future habitat use by Atlantic bluefin tuna: mechanistic vs. correlative distribution models. *ICES J. Mar. Sci.*, 74, 698-716.

Volkov, D., **S.-K. Lee**, F. Landerer, and R. Lumpkin, 2017: Decade-long deep-ocean warming detected in the subtropical South Pacific. *Geophys. Res. Lett.*, 44, 927-936.

### **Current Research Projects**

NOAA/CPO (PI): The southward returning pathways of the AMOC and their impacts on global sea surface temperature

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

NOAA/CPO (coPI): Interannual-to-decadal variability of the South Atlantic MOC

NOAA/CPO (coPI): Decadal modulations of global monsoon circulations & extreme weather events by the South Atlantic MOC

NGI (coPI): Predicting the impact of anthropogenic climate change on physical & biogeochemical processes in the northern Gulf of Mexico

### **Work In Progress**

Gomez, F. A., **S.-K. Lee**, F. J. Hernandez Jr., F. E. Muller-Karger, L. Chiaverano, Y. Liu, and J. T. Lamkin, 2018: Impact of ENSO on salinity, plankton biomass, and coastal current in the northern Gulf of Mexico. Submitted to *Geophys. Res. Lett.*