

# School of Earth and Environmental Sciences Colloquium Series

## Laura Michelle DeMott, PhD

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NY Water Science Center

### “Old Data, New Maps – Updating Bedrock Surfaces in New York City with 100+ Years of Data”

Wed., Nov.8th

12:15-1:30PM

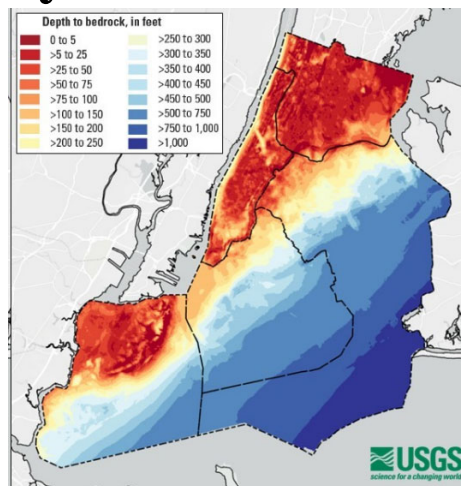
Science Bldg.

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Bedrock elevation and depth are important factors to consider for numerous geologic and engineering projects, especially in densely urbanized areas such as New York City. The earliest bedrock elevation maps of New York City were produced in 1905 for Manhattan Island, and have been updated a number of times since then. Most recently, in 2023 the U.S. Geological Survey produced new maps of bedrock elevation and depth in the five boroughs, based on over 14,000 data points from 1905 to 2022. This talk discusses the data and techniques used to create these maps, and the resulting surfaces and their applications.