UNDERSTANDING THE CHANGING NATURAL-BUILT LANDSCAPE IN AN ARCTIC COMMUNITY: AN INTEGRATED SENSOR NETWORK

UVA Arctic Research Center and Collaborators

Howard Epstein Professor Environmental Sciences

Caitlin Wylie Assistant Professor School of Engineering

Graduate Students – Mackenzie Nelson, Mirella Shaban,

Leena Cho Assistant Professor Landscape Architecture Group

Luis Felipe R. Murillo Associate Researcher School of Data Science

Matthew Jull Associate Professor Architecture

Claire G. Griffin Postdoctoral Researcher Environmental Sciences

CRREL

USACE Cold Regions Research and Engineering Laboratory

North Slope Borough Planning & Public Works

UKPEAĠVIK IÑUPIAT CORPORATION
Ukpeagvik Inupiat Corporation
UIC Science, UIC Land

Taġiuġmiullu Nunamiullu Housing Authority

CCHRC
Cold Climate Housing Research Center

Ground Penetrating Radar and Electrical Resistivity Tomography to measure active layer and ground ice (UVA and CRREL)

TERRESTRIAL METEOROLOGICAL SENSOR NETWORK
- prototyping at UVA

Sensor arrays to be installed within the city of Utqiaġvik

Air temp, relative humidity, wind speed / direction, ground temp. & moisture content, snow depth, etc.