Patricia Cleary

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Sabbatical Research:

Ozone Research Along Lake Michigan’s Shoreline

The sabbatical project was meant to push forward the analysis of gradients in ozone at the shoreline of Lake Michigan and the role of UAS in making sound atmospheric measurements. The 2017 Lake Michigan Ozone Study allowed for careful study of aircraft and ground observations of ozone near Lake Michigan. I was awarded supplemental funding for an NSF project to investigate the lake breeze meteorology and low altitude ozone using unmanned aerial systems to bring folks from the University of Colorado - Boulder to participate in our summer field campaign, WiscoDISCO: Wisconsin’s Dynamic Influence of Shoreline Circulations on Ozone.

Dr. Patricia A Cleary along the shoreline of Lake Michigan pictured holding the RAAVEN UAS with the M210 quadcopter UAS flown behind her. This image was taken during the WiscoDISCO-21 field campaign, funded by the National Science Foundation and in collaboration with University of Colorado, Purdue University and University of Wisconsin – Madison.