

# AEROKATS\* and ROVER\*\* Education Network

## AREN

... supported by a NASA Cooperative Agreement for Education (Bydlowski/Wayne Regional Educational Service Agency)

\*Advancing Earth Research Observations with Kites and Atmospheric/Terrestrial Sensors (AEROKATS)

\*\*Remotely Operated Vehicles for Education and Research (ROVER)

*AREN* Project Manager at NASA: Geoff Bland  
Goddard Space Flight Center, Earth Science Office of Field Support  
Wallops Flight Facility, Wallops Island VA 23337



# CBEC - AREN Team



Alissa Quinton, Hanna Spongberg, Judy Wink, Eileen Friedman (left to right)

# ROVER Parts

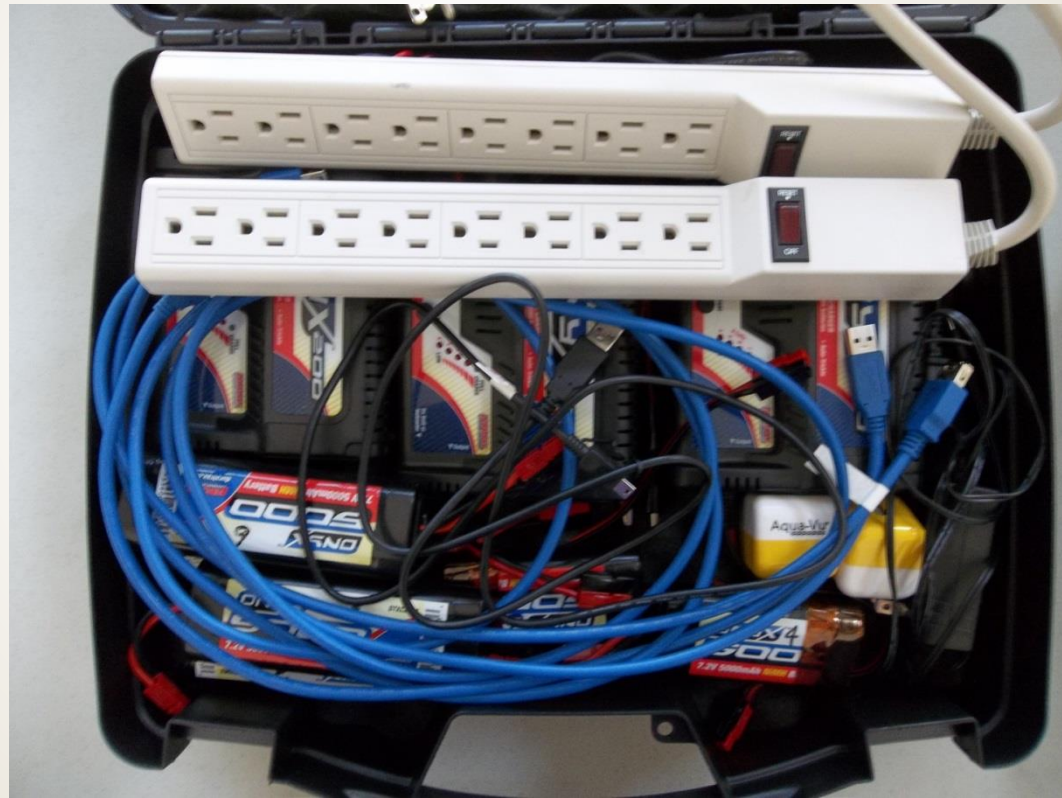


ROVER X – 4.1



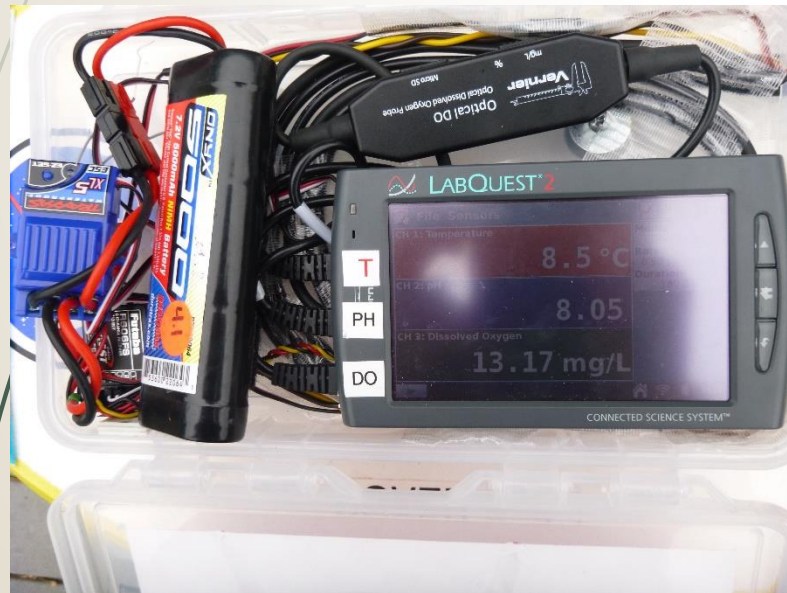
ROVER X – 3.1

# Support Equipment



# Internal Guts

ROVER X – 3.1



ROVER X – 4.1



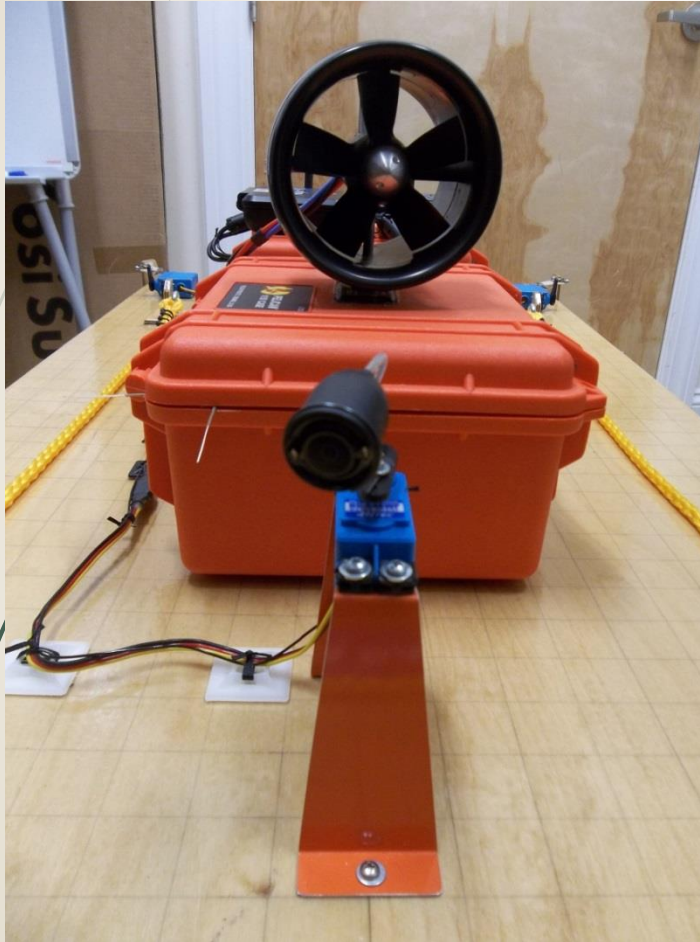
Power Box

Payload Box

# LabQuest2



# External Parts



FWD Camera



Swimdeck

# ROVER Transportation





# Testing Equipment



# Vehicle Preparation



# Futaba T7C Remote Control Equipment



# Ground Station Equipment



# FWD Camera



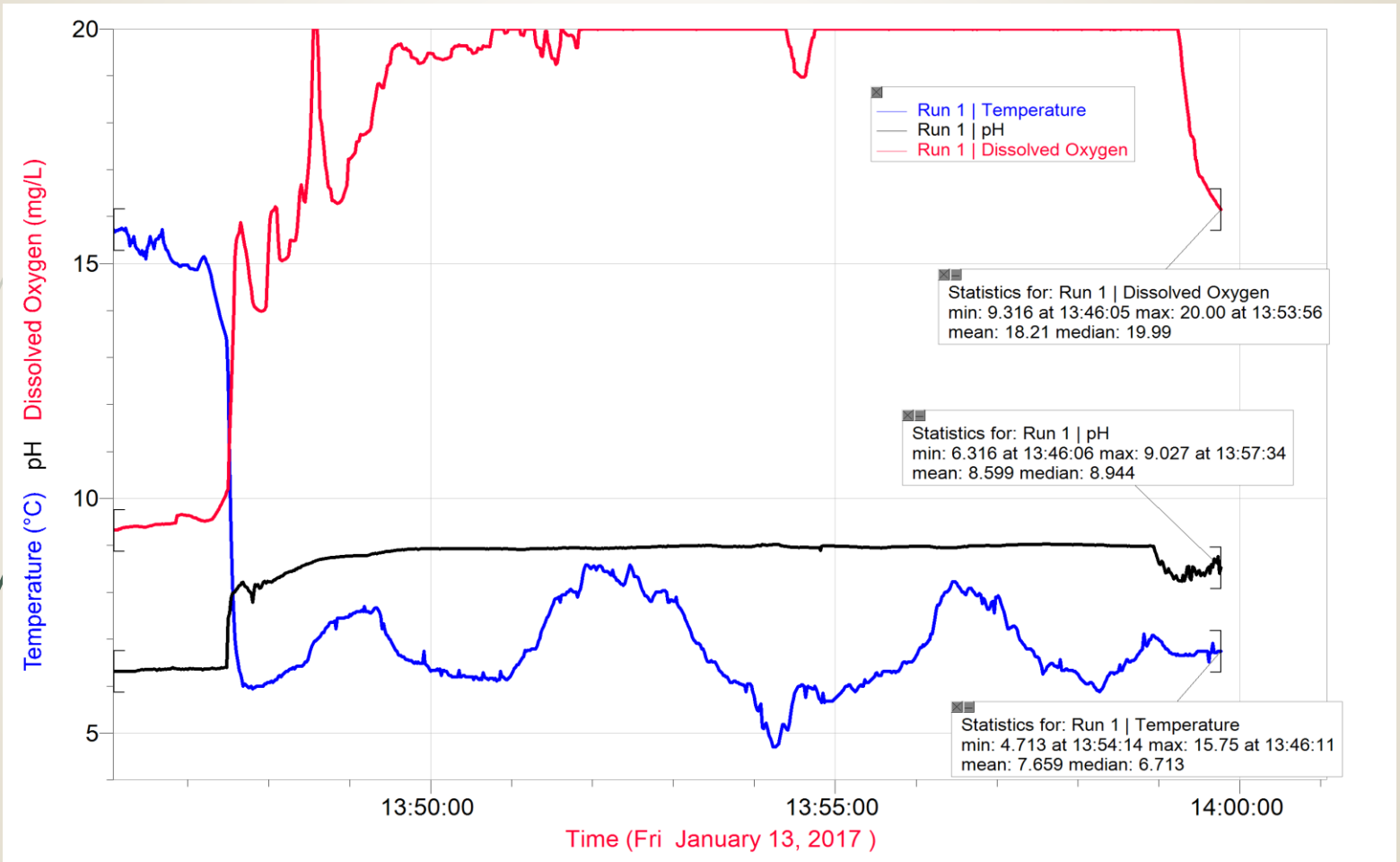
# AFT Camera



# Data Collection



# ROVER Run 1-13-17



ROVER X- 4.1 data collected – Temperature, pH, Dissolved Oxygen w/ statistics, 1/13/17



# Hand Held Sensors



# AEROKAT Equipment



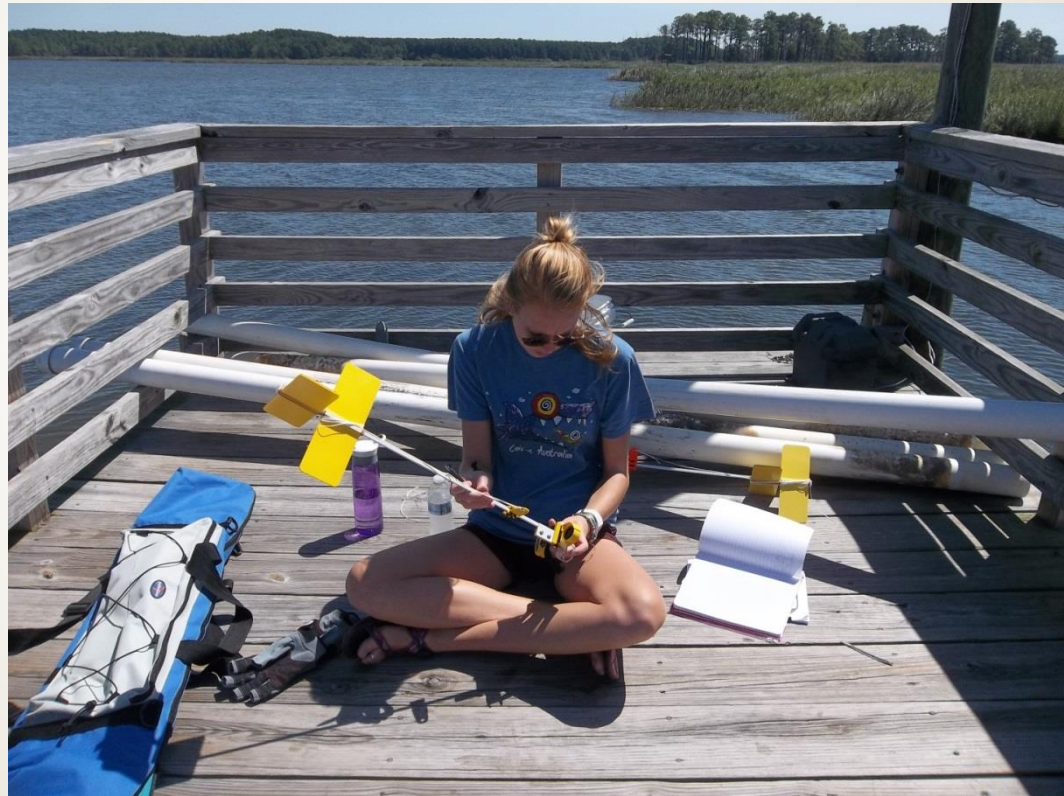
# Profiler's



Anemometer

Kestrel

# Aeropod



# Cameras

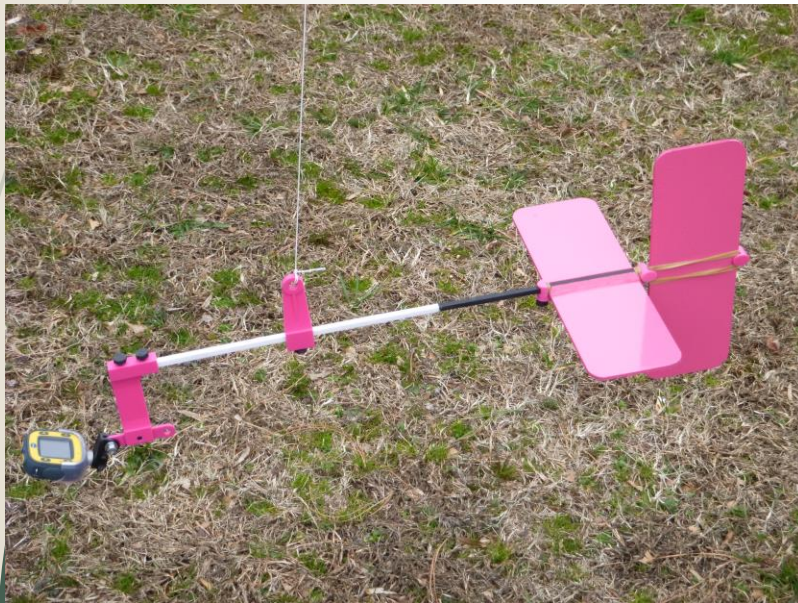


V-Tech



Lumix

# Monopod



# Payload Hookup



# Data Collection





# Marsh Mapping – Fall



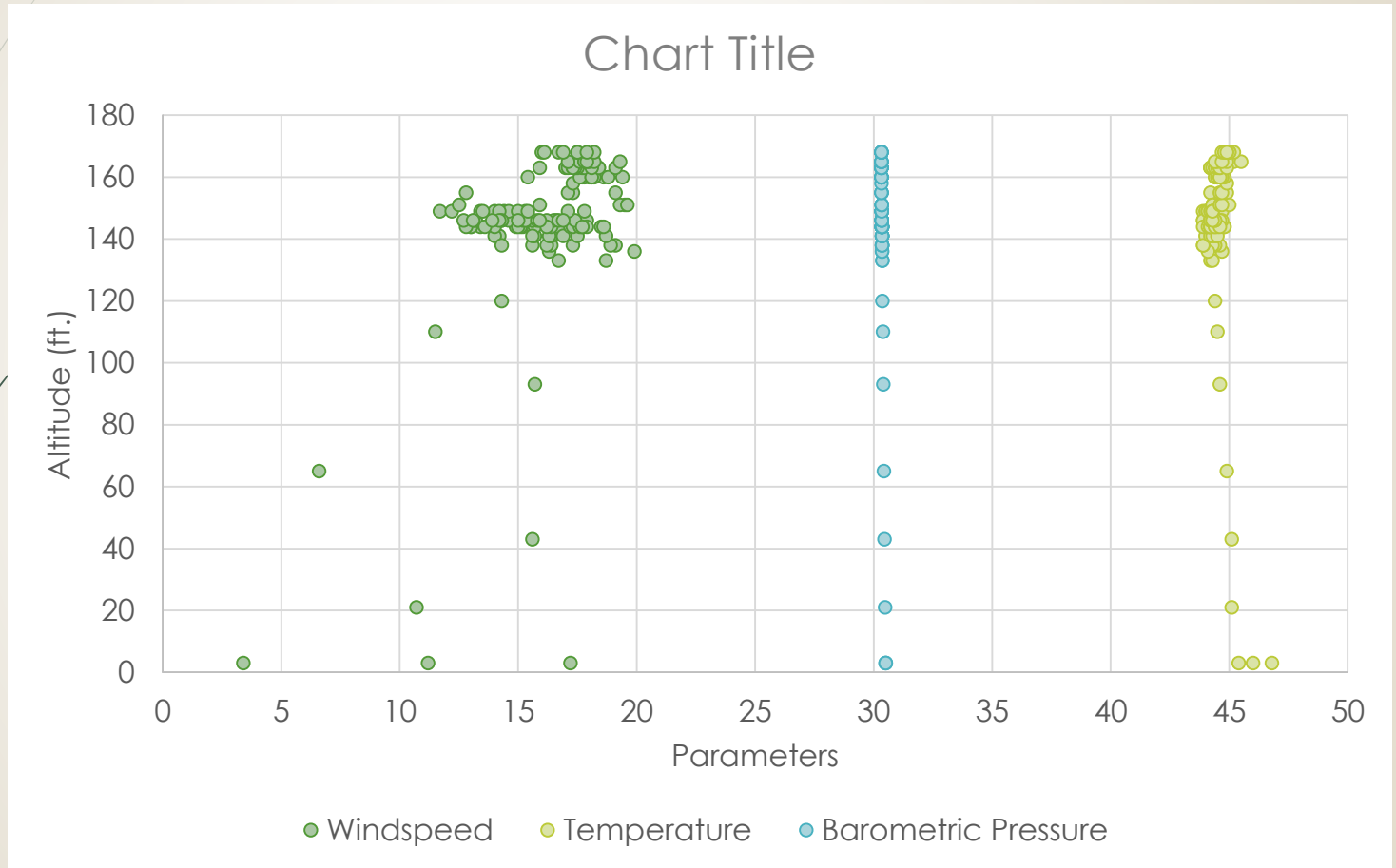
Kayak Dock – 09/06/2016

# Marsh Mapping 2 – Winter



Kent Narrows Beach– 12/27/2016

# Air Quality Data



AEROKAT data collected – Windspeed, Temperature, Barometric Pressure vs. Altitude

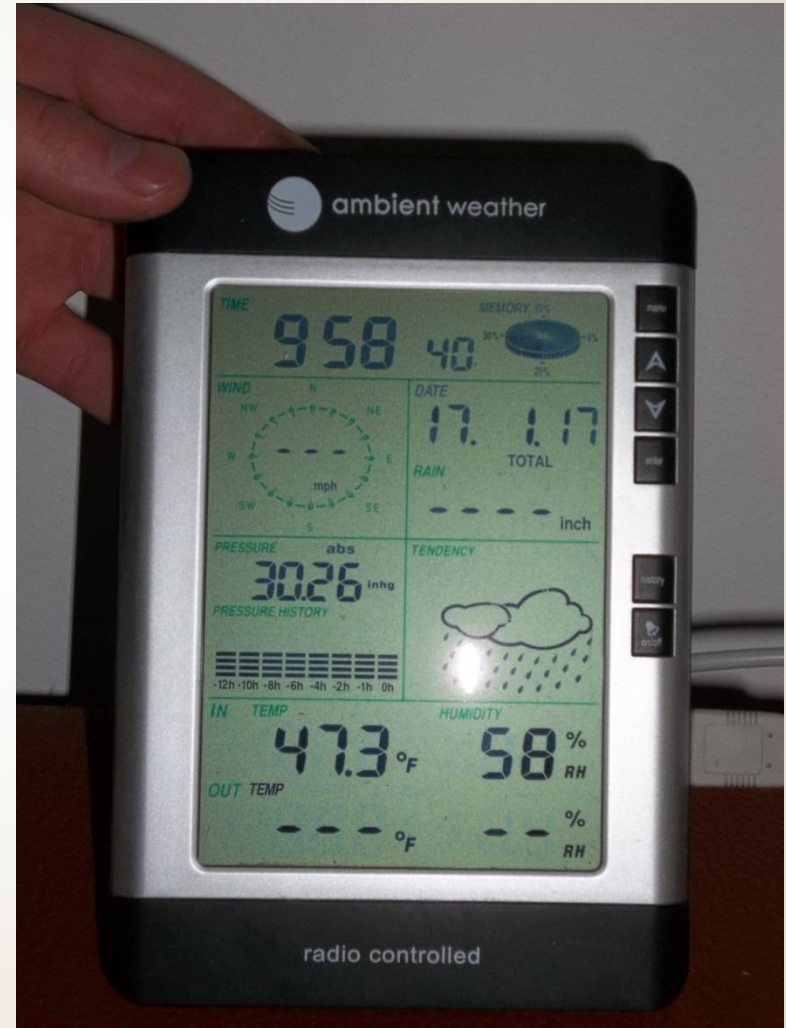
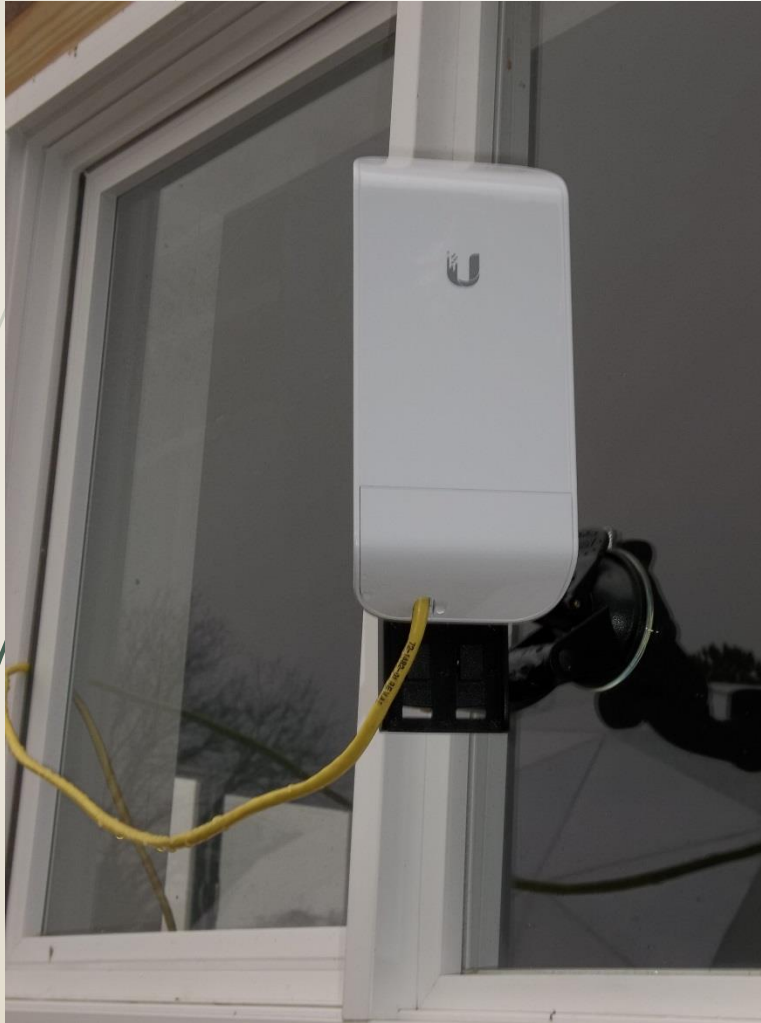
# Rain Gauge



# Weather Station



# Weather Station 2



# Things are looking up!

– CBEC AREN Team

