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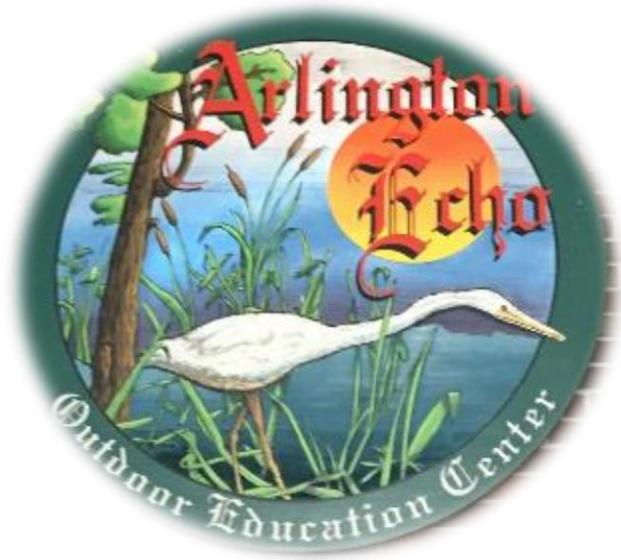
ARLINGTON ECHO

OUTDOOR EDUCATION CENTER



GLOBE Presentation & Demo AEROKATS Flight

August 1, 2019

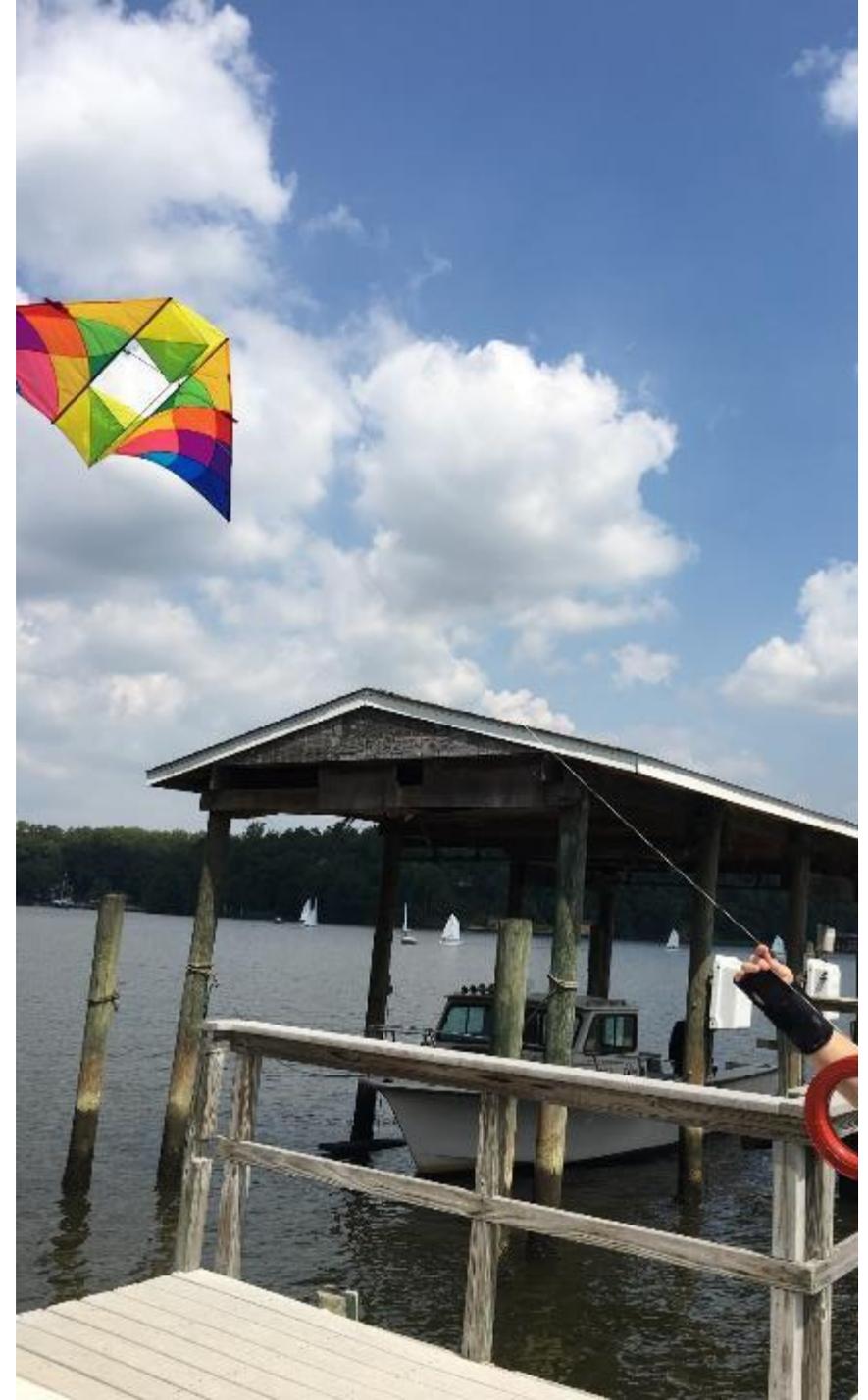


Launch Site



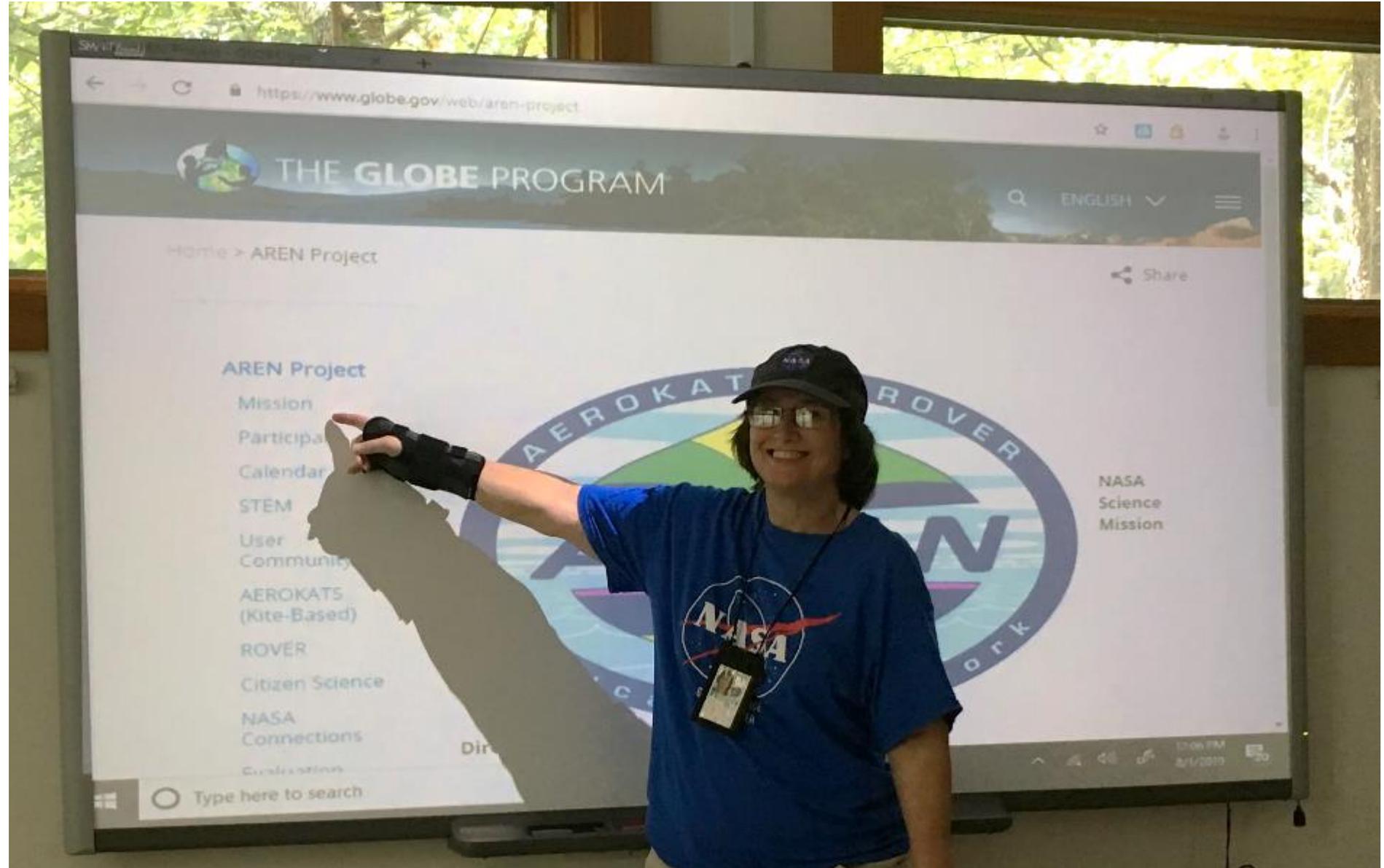


**Delta 7ft
&
Alpine 10ft
Dock
Test Flights**

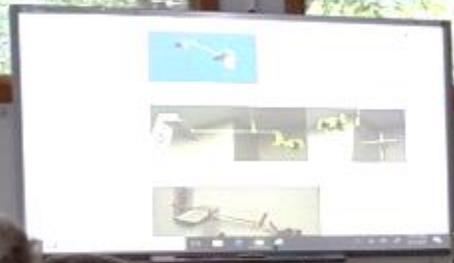




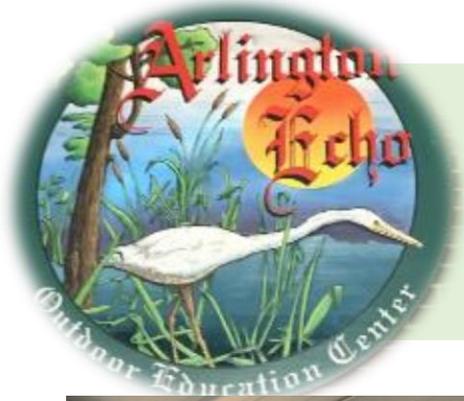
Arlington Echo Teachers were introduced to the NASA GLOBE Program and AREN with emphasize placed on the AREN Mission and “AEROKATS” before the demo flight.



<https://www.globe.gov/web/aren-project>



EXIT



Teacher Participant Demo Flight Mission Question



Q. Can the monacam capture surface vegetation?



Alissa and Judy
Launch Delta 7ft
from the dock.

No sustained winds





Teachers Fly Mini-Kites!

Perfect for the light wind conditions.



Photo Credit: Judy Wink, CBEC



Q. What did you learn about kite flight?



Sallie Alpine Demo Flight with Monocam Payload





Although both the Delta and Alpine kites can fly in low winds, the size of the Alpine made it possible to get it up on gusts during the test and demo flights.



AEROPOD Monocam picture over the water.



No visible vegetation at the
water surface.



AEROPOD

Monocam

**increasing in
altitude captures
picture of the
pilot and payload
specialist.**





**Aeropod
Monocam
heading
increasing
in altitude.**



Aeropod Monocam Image

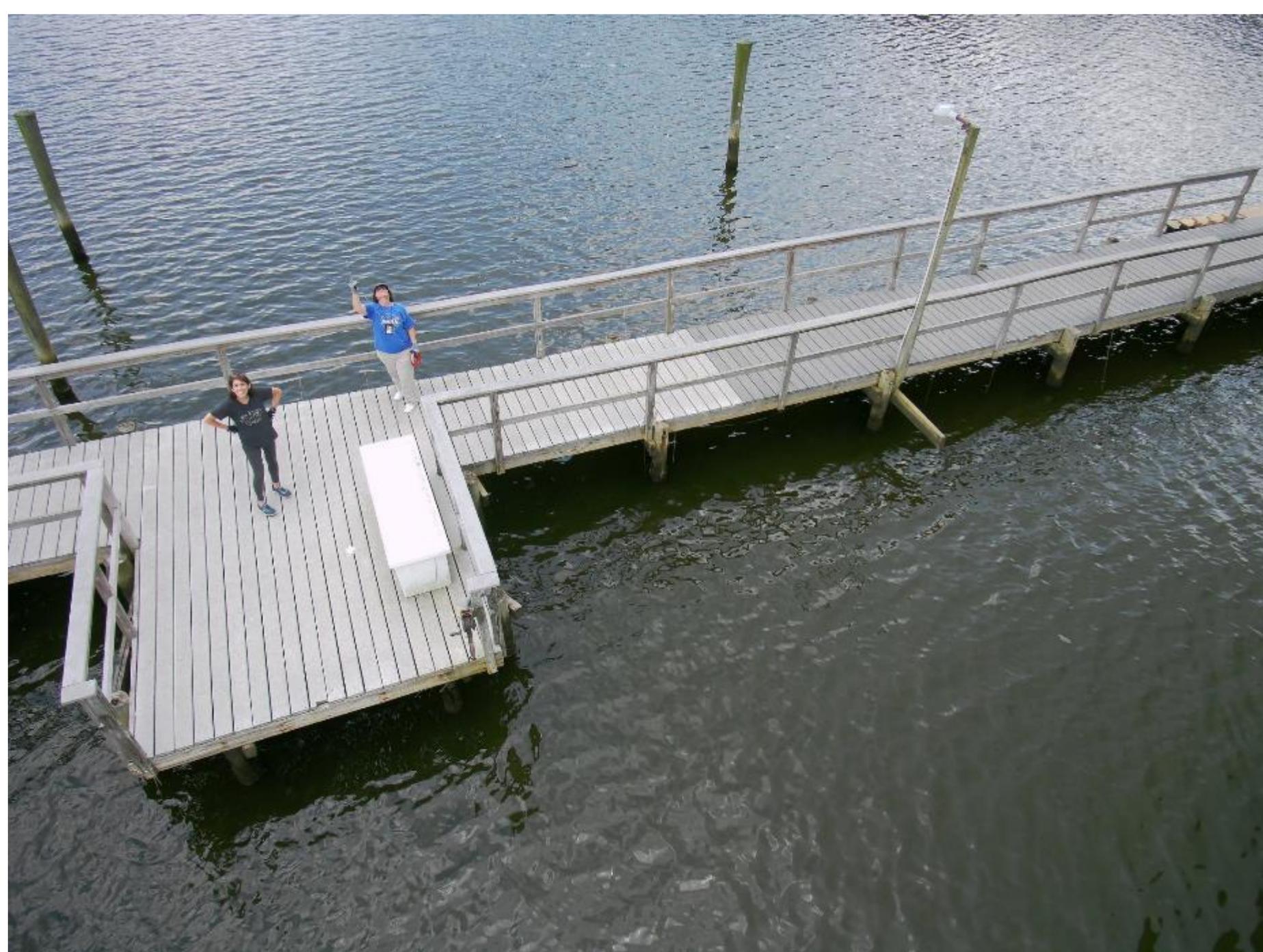


Aeropod Monocam Image



Aeropod Monocam Image









Lots of obstacles. Challenging Flight. Pilot experience launching kites off ships at sea, Great Alpine structure and light approaching shore winds made the flight doable.

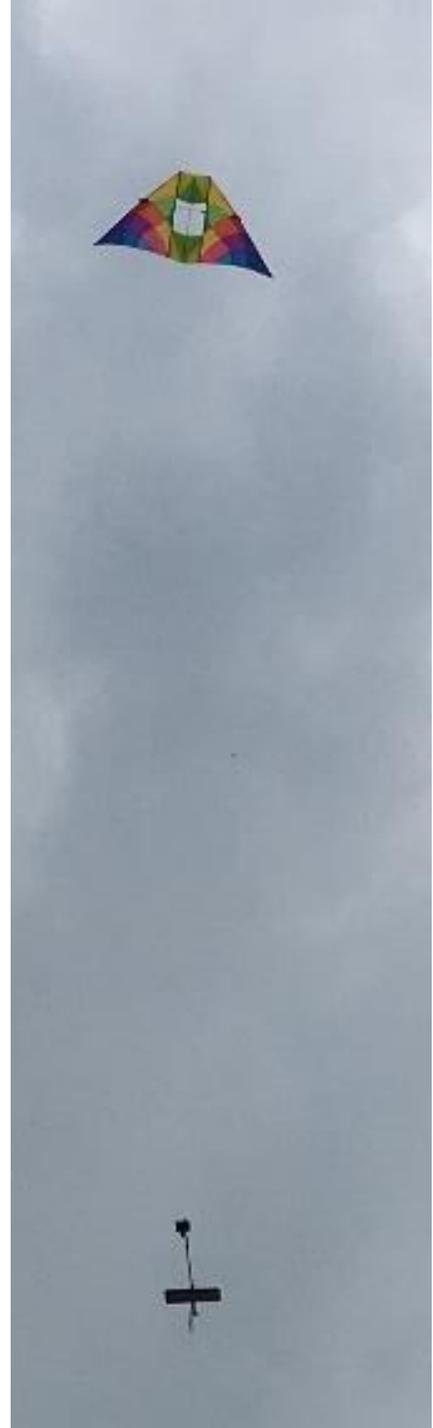


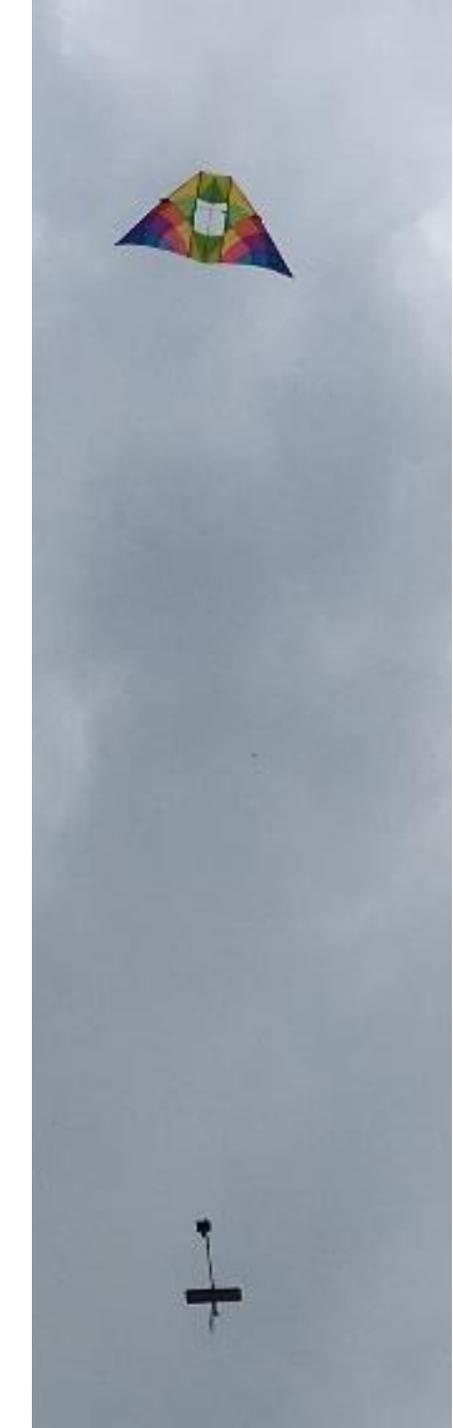
Walking kite into the shore wind stream.











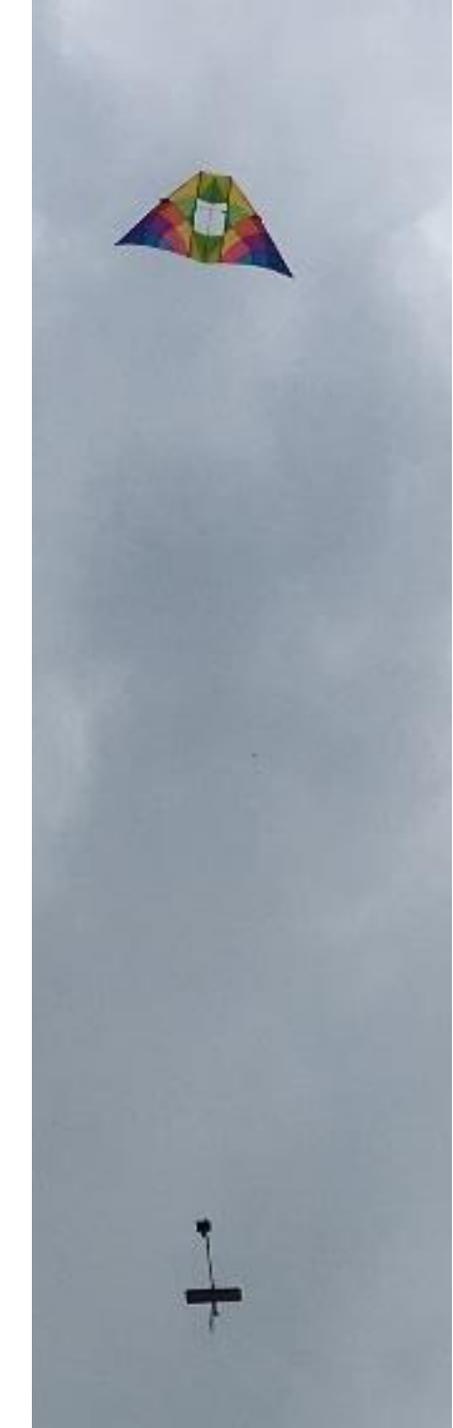




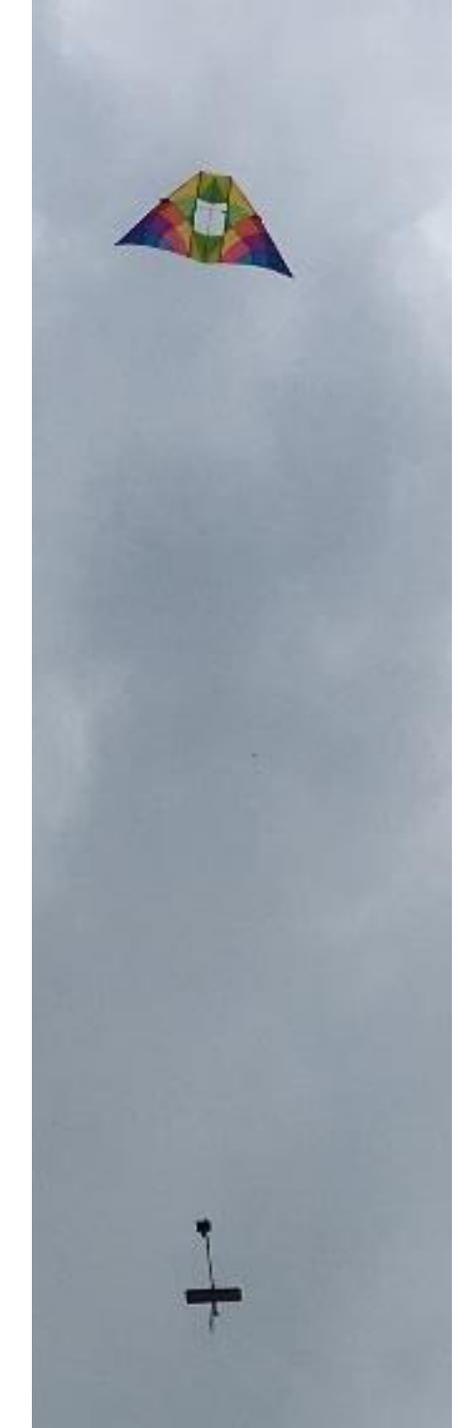






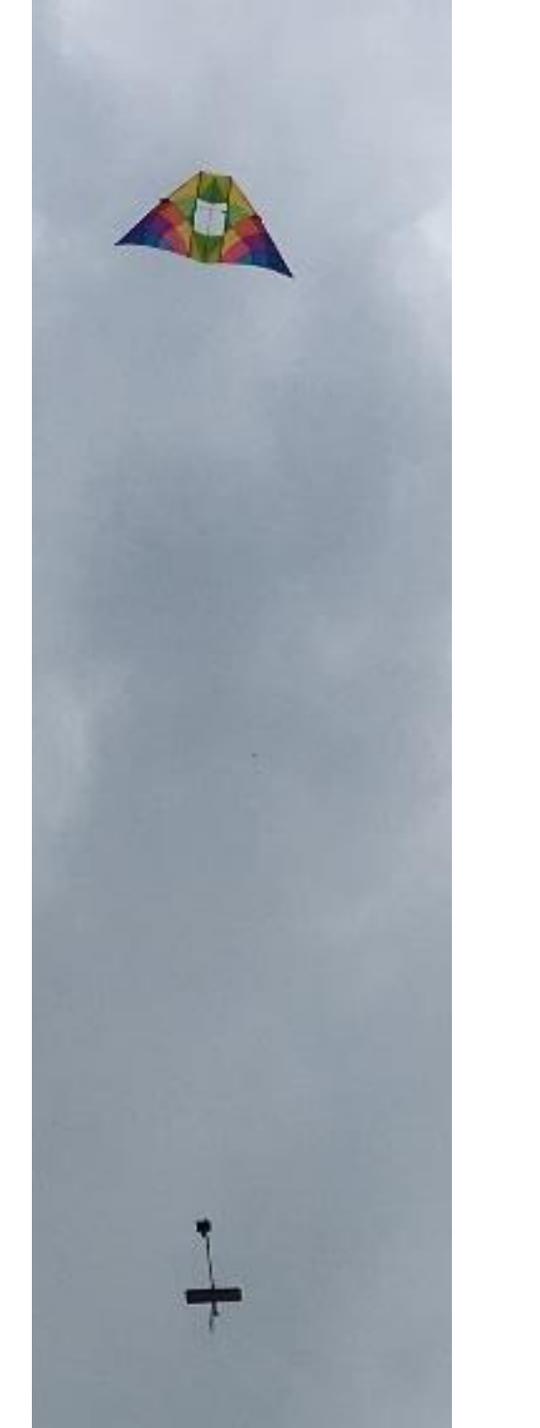










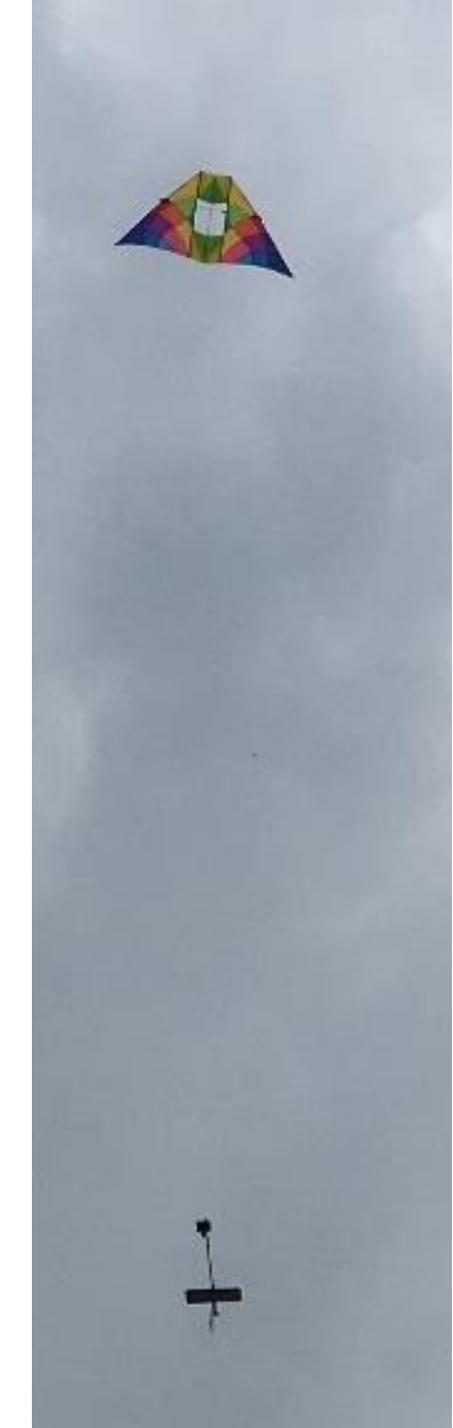






Monocam Aeropod Recovered





Payload and Kite lines
twisted together.



Monocam captures picture of payload specialist finger pushing the shutter button to stop recording and power down.



Teacher comment to colleagues –
“It’s not like flying any kite”.



Participants fly the
Pre-launched Alpine
after the payload is
recovered.

Good Practice for demonstration flights to have participants voluntarily fly a pre- launched, stable kite w/o payload.



Payload Specialist deals with payload line.

GREAT JOB!



“Best kite I’ve ever flown.”





Good Practice: I shared Kite Flying tips with the first teacher pilot and the teacher pilot shared the same tips with replacement colleagues. Worked well.





More Teacher Flyers!

Once the first two teacher flew, more teachers wanted to fly.

No signs of surface vegetation.





**WE HOPE YOU ENJOYED
LEARNING ABOUT THE
GLOBE Program & AREN!**

SALLIE, JUDY AND ALISSA



Good Model for Demo Flight Request

- Go early and conduct Pre-Presentation Field Test Flights.
- Website Presentation: Share GLOBE and AREN with emphasize on the AREN Mission, Kites , Payload and Necessity of Training.
- Demo Flight Field Briefing – Share Aeropod Payloads (pass around) have participants develop a mission question. Ask for a volunteer pilot who after launch will hold a stable kite while a volunteer payload specialist and you attach an Aeropod Payload during the flight. Demo attachment technique.
- Launch and get a kite stable and call for the volunteer pilot to hold, go up a little then hold the kite while you help the payload specialist start the payload to collect data, attach and release.
- After a short flight. Recover the payload and let participant volunteers take turns flying the Pre-Launched stable kite. (remember to bring extra gloves of various sizes).
- Have volunteer participant pilots share the kite flying tips you've shared with them (keep the line taught, let line out if the kite pulls up) with the next volunteer pilots.
- **Have Ready Made Mini-Kites on hand for participant kite-flight exploration in case the wind conditions are not right for flying.** Use in the field even if the winds cooperate.
- Debrief the flight with the participants.
- Take your own laptop to download the data!
- Log the Demo Flight Information in the AREN Data Collector.
- If possible, take pics and send a follow-up email to the Demo Flight Requestor.
- Remember to bring AREN Photo release forms and try to take a few pictures.



“Thank You” Email from the Coordinator

Subject: Re: Arlington Echo Demo Flight

Thank you Sallie! I will share with everyone. We really appreciate everyone coming out yesterday.

