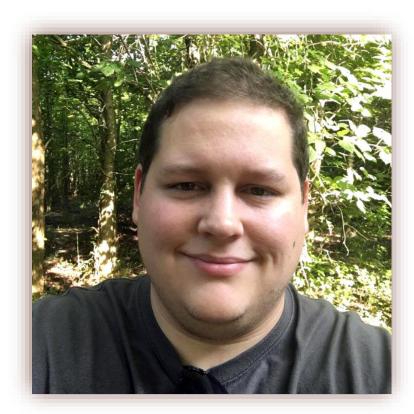
Drone-Integrated Visits: A Hybrid Alternative to Aerial Monitoring

Lessons Learned by Eastern Shore Land Conservancy



Staff Introductions



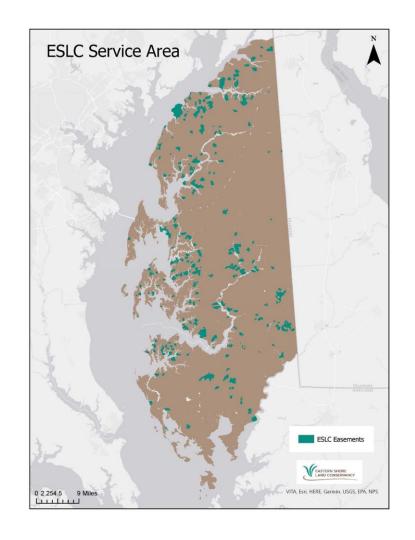
Dave Satterfield, Land Program Manager



Michael Dunmyer, Stewardship Specialist

A Brief Overview of ESLC

- Located in Easton, Talbot County
- 13 Full-Time Staff (4 Land Staff)
- Six-County Service Area
- Over 63,000 Acres Protected
- Three Preserves One Public Access
- 310 Easements (and counting!)





Why Drones?

- Service area topography
- LTA accreditation requirements
 - Existing burdens on staff time
 - COVID-19 volunteer exclusions



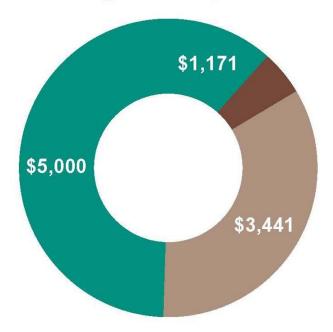
Securing Grant Funding

- Janice Hollmann Grant Program, FY20
- * \$7,000 requested | **\$5,000** awarded
- Reminder: LTA's Remote Monitoring Grant Program does not award funds for hardware purchases!



Hollmann Grant Expenditures

Total Expenditure: \$10.102.18



Hardware: \$6,170.88

Certification: \$490.00

Staff Time and Mileage



Registration and Certification

- Drone registration and pilot licensure required by FAA for commercial uses
- Licensing includes testing, available at Navy AnnapolisFlight Center
- Bi-annual online recertification

Hardware Purchasing

- DJI Mavic 2 Pro (and Fly More Bundle)
- Priorities: flight time, safety features
- Image quality sufficient across models
- Must-Have Accessories:
 - DJI Smart Controller (or equivalent)
 - Extra Batteries and Propellers
 - Landing Gear or Landing Pad

















Diverse Benefits for the Entire Organization





Stewardship: substantial improvements to quality and efficiency of monitoring

Conservation: faster site visits and higher-quality baseline documentation

Communications: near-endless supply of current, high-resolution content for outreach

Advancement: aerial property photos for donors and easement landowners

Limitations of Drone Use

- Airspace restrictions
- Visibility through canopies
- Nuisance to wildlife / hunters
- Landowner receptiveness
- Liability for your flight
- Ongoing maintenance costs
- Burdensome image file sizes

