

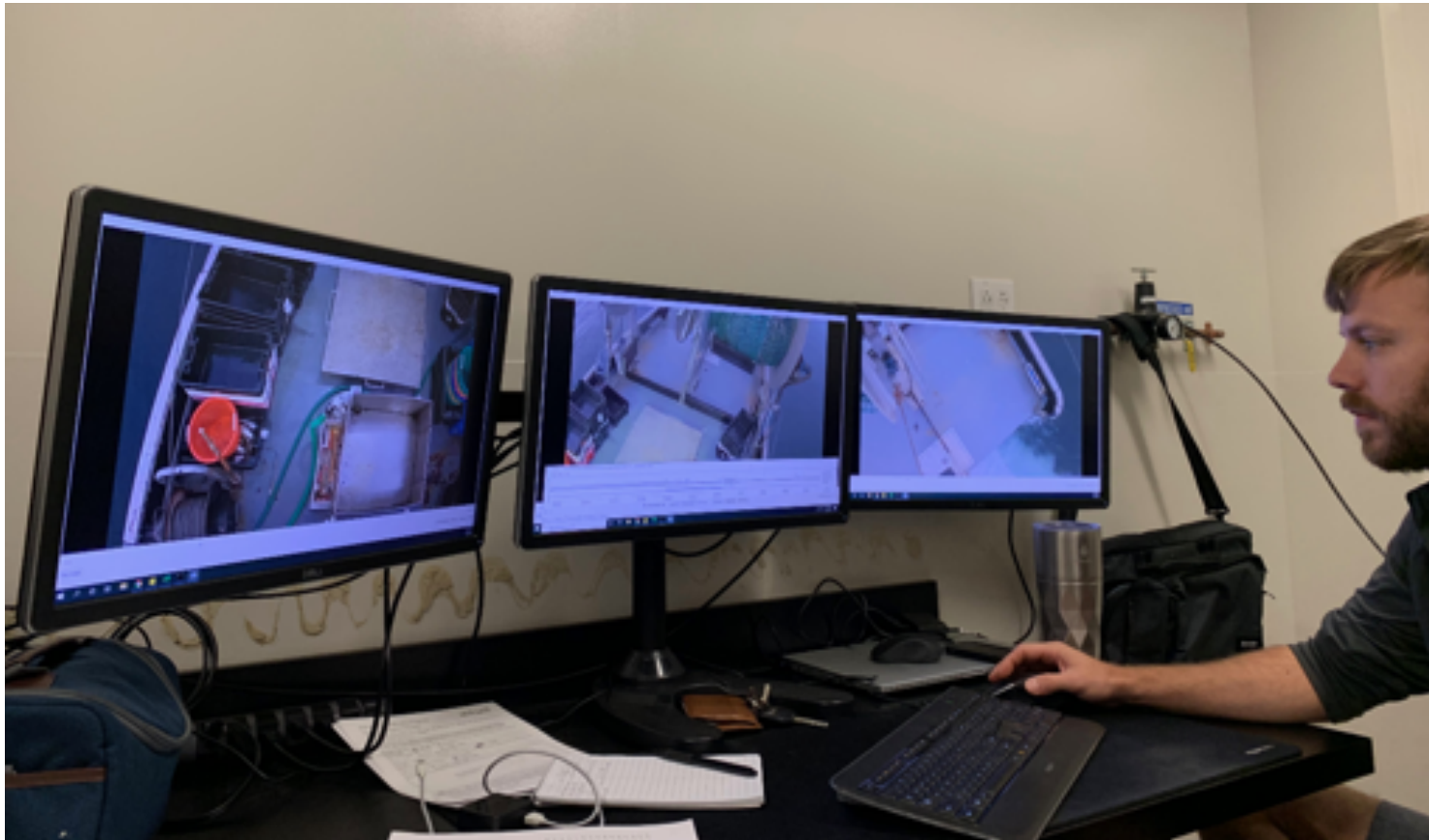
Incorporating Machine Learning into Northeast EM Programs

Workshop Summary

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Marine Monitoring



About the Workshop



- **Participation:** 42 stakeholders including EM project staff, industry representatives, NOAA Staff, EM and data specialists
- **Objectives:** Convene stakeholders on integrating machine learning into regional EM programs

Uncertainties for the Transition to Machine Assisted Review

- Which points in the video review process should be prioritized for automation?
- What is the process for incorporating machine learning into data workflows?
- What are the performance standards an algorithm must meet to be approved and trusted by fisheries managers?
- What is the preferred method to evaluate algorithm performance?



Regional Priorities



Clearly define what “moving forward” means



Focus specifically on the progression of activity recognition and build confidence in those models to maximize time and cost savings



Define clear algorithm performance standards. First document and define a baseline standard, and then determine “what is good enough” for algorithm performance.



Develop a process for submitting and approving new innovations in automatic analysis or processing of EM data.



Develop clear and realistic timelines for implementing machine learning goals.



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