

DREAM PROJECT SUMMARY

“Protecting Rapid Transit Infrastructure from Extreme Precipitation Events”

Summary: Hurricane Greyson hit the MBTA Blue Line particularly hard, especially Aquarium Station, causing tremendous flooding despite protective measures being taken at entrances. Water entered the station through various ventilation systems, which were unmapped and unprotected. Implementing an asset management system that identifies gaps in coverage and installs low cost, low maintenance interventions to shield vent systems could be a worthwhile investment, considering the increased frequency of extreme flood events.

Needs:

- More intimate knowledge of vents/system design
- Access to materials
- Access to relevant personnel

Special Talents and Skills:

- GIS mapping
- Translating science to material communicable with the public
- Knowledge of low impact development, green infrastructure
- Familiarity with governmental function at a variety of levels
- Community outreach/engagement

Types of Projects I'm Interested In:

- Urban development focus
- Adaptation/resiliency interventions
- Climate change awareness/engagement

MIT OpenCourseWare
<https://ocw.mit.edu>

EC.719 D-Lab: Water, Climate Change, and Health
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