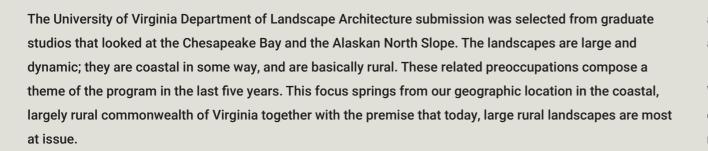


FOURTH SEMESTER LANDSCAPE ARCHITECTURE FOUNDATION STUDIO, LIVE MODELING MODULE



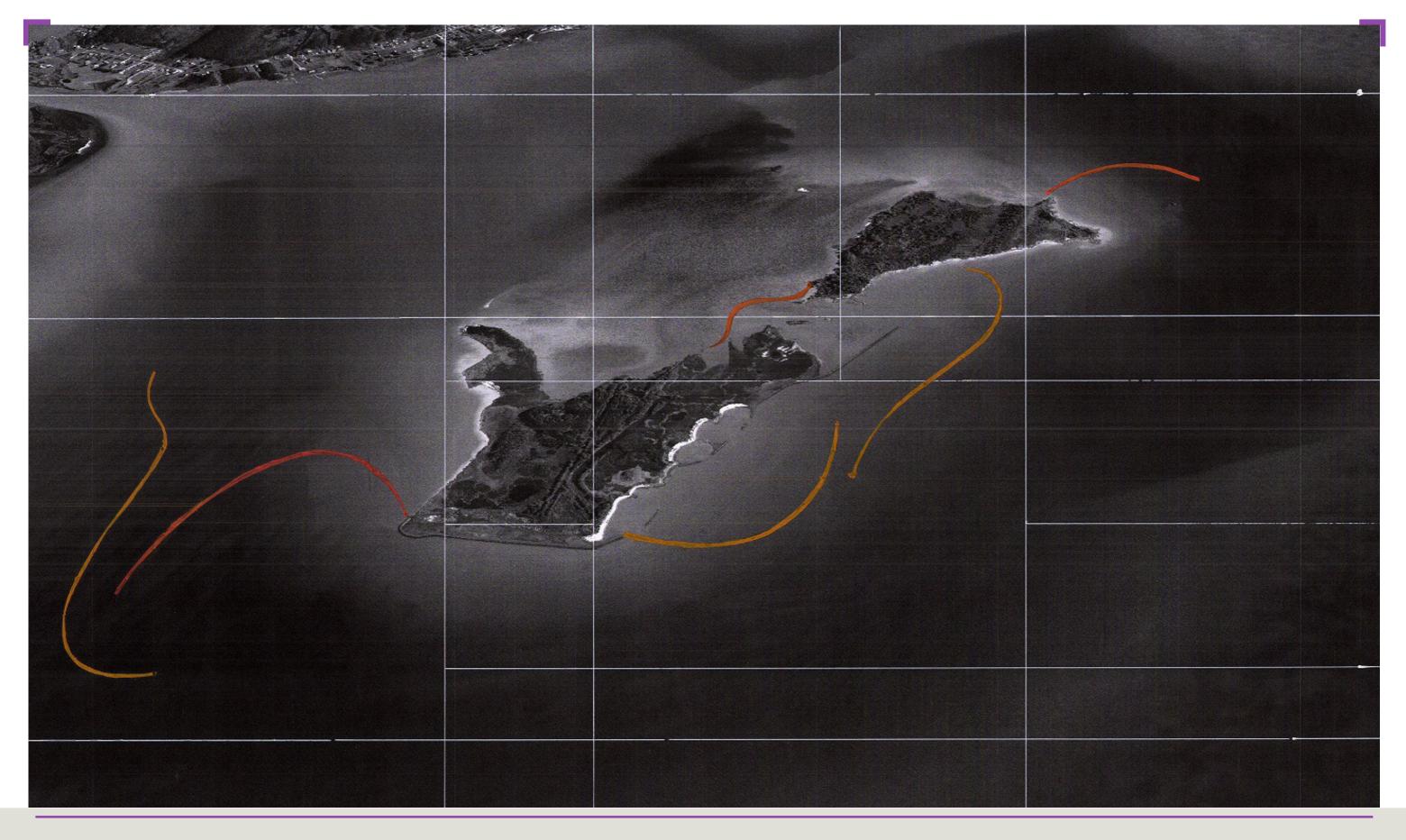
The projects selected here are the work of groups of 3-4 students. Our core curriculum pushes students to develop their voice and articulate their values, and the semester-long collaborations these projects represent require both friction and cohesion, often through both debate and coordination of responsibilities. These

are critical skills for large landscape work and help the students develop and test landscape ideas through abstraction and precision.

We have identified projects that construe landscape along a continuum of tradition and innovation. The commitment to history—of places, of ideas, and practices—has long been a preoccupation at UVA. History's relationship to innovation forms the backbone of the best work we see around the program. Recently, this approach has developed into a portfolio of natural infrastructure concepts and new ideas on preservation and restoration of very large landscapes that are changing fast. The aim is to resolve these propositions at the level of the detail, with an interest in the tools, humans, and machines that comprise the technical approach.





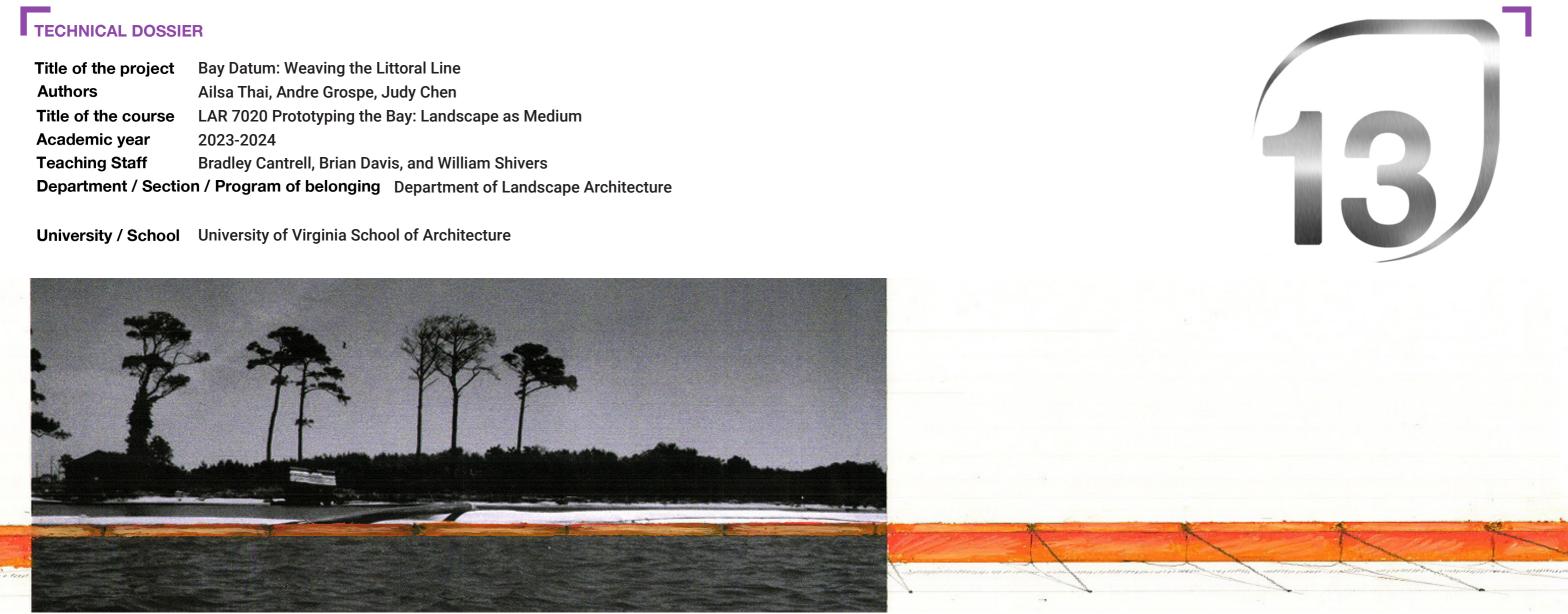


Country/CityChesapeake Bay, Virginia, USAUniversity / SchoolUniversity of Virginia School of Architecture, Department of Landscape ArchitectureAcademic year2023-2024Title of the projectBay Datum: Weaving the Littoral LineAuthorsAilsa Thai, Andre Grospe, Judy Chen



Bay Datum: Weaving the Littoral Line Authors Ailsa Thai, Andre Grospe, Judy Chen Title of the course LAR 7020 Prototyping the Bay: Landscape as Medium Academic year 2023-2024 **Teaching Staff** Bradley Cantrell, Brian Davis, and William Shivers Department / Section / Program of belonging Department of Landscape Architecture

University / School University of Virginia School of Architecture



Within the dynamics of the Chesapeake Bay, the project merges fluvial geomorphology with the traditional knowledge of local watermen. The collaboration uses sediment fences to form large-scale installations that act as land-building infrastructure.

Harnessing the understanding of the Bay's currents and moods known by the watermen, the project strategically places arrays of fences in areas identified as optimal for sediment deposition. The sediment fences are seeded with dredge over time, situating fluvial earthworks within the currents and stabilized by the installation of the fencing. The knowledge of the watermen guides the placement to work in harmony with the currents of Bay, maximizing the capture of suspended silt and sand carried by the tides. The fences are designed as visual markers in the vast expanse of the Bay. Arranged in sweeping arcs they create a stark contrast against the mutable shorelines, acting as a datum that registers the immense and often invisible changes that are unfolding.

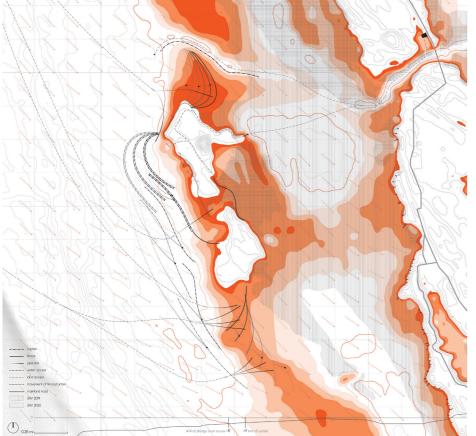
Over time, this process of deposition builds new land. What begins as subtle shoaling around the fences gradually grows into nascent mudflats and the foundations for new salt marshes. These emerging landforms provide critical habitat for wildlife and help buffer coastal communities from storm surge. This novel form of earthwork is a tangible record of change, revealing the forces of erosion and deposition while sculpting an adaptable future for the Chesapeake Bay.

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CONSTRUCTION BECOMING CARE - A MAINTENANCE CALENDAR

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JUN

JUL

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storm period

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storm season

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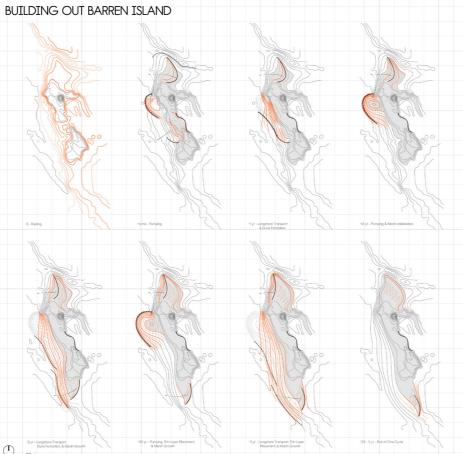
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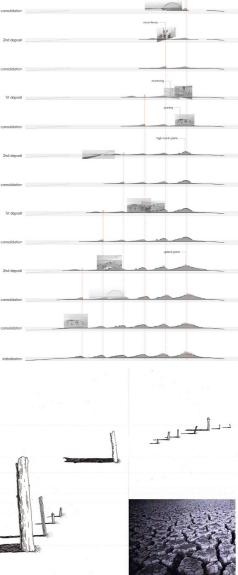
install fence/curtain

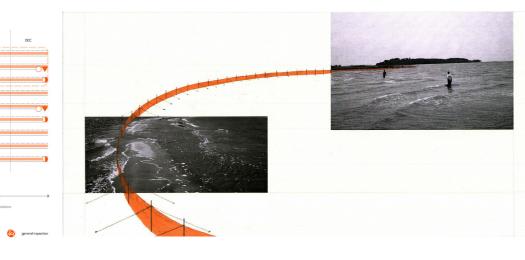
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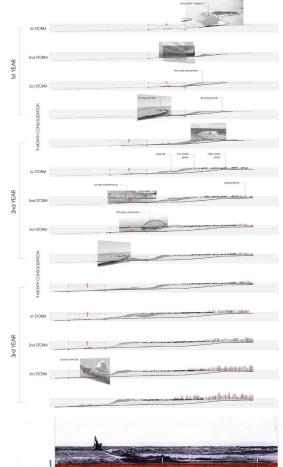
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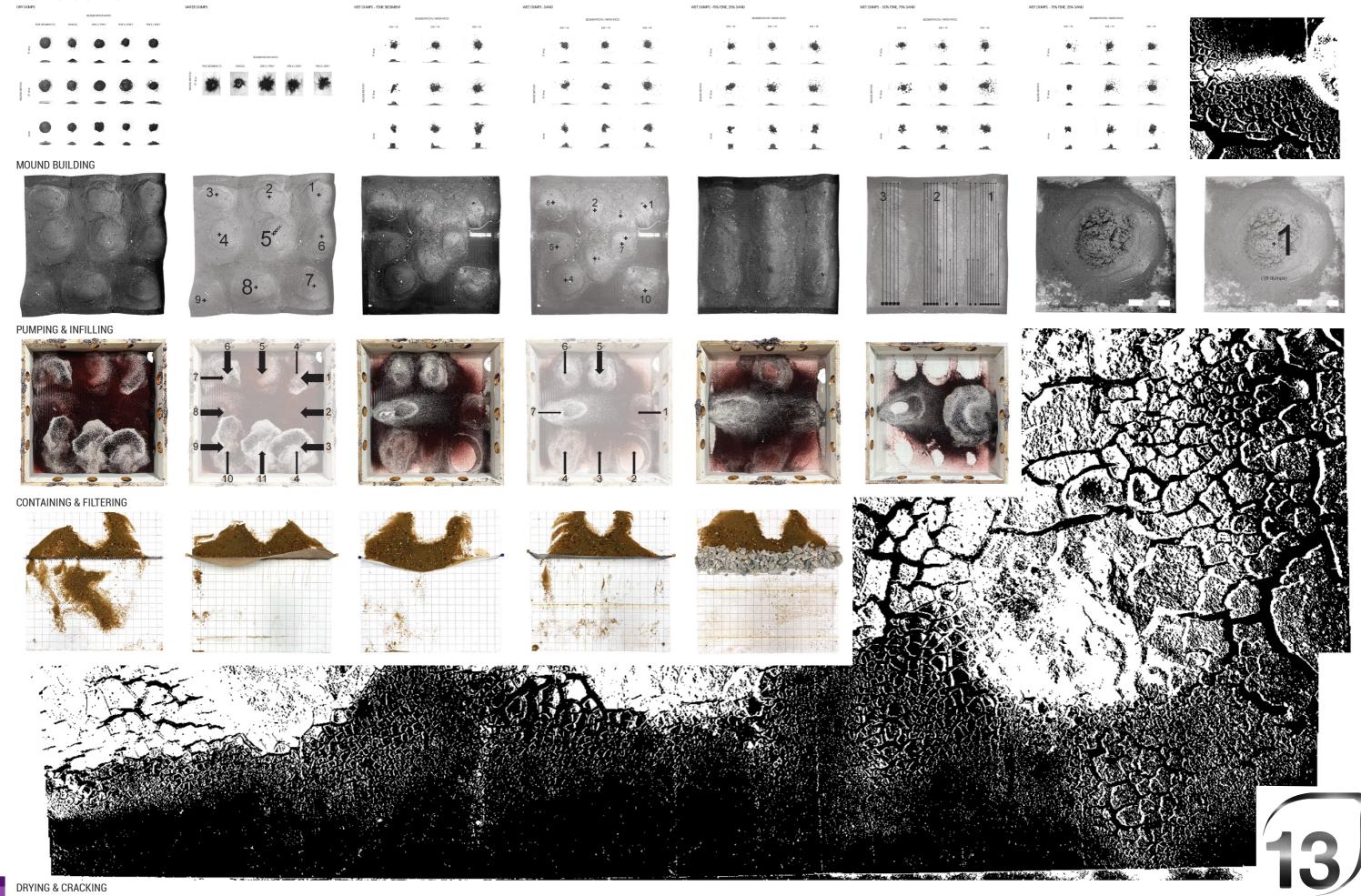


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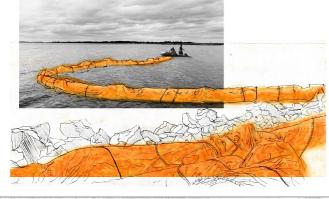


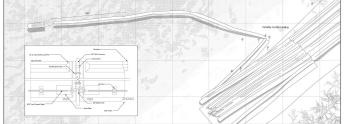
SEDIMENT EXPERIMENTS

DROPPING & SLUMPING

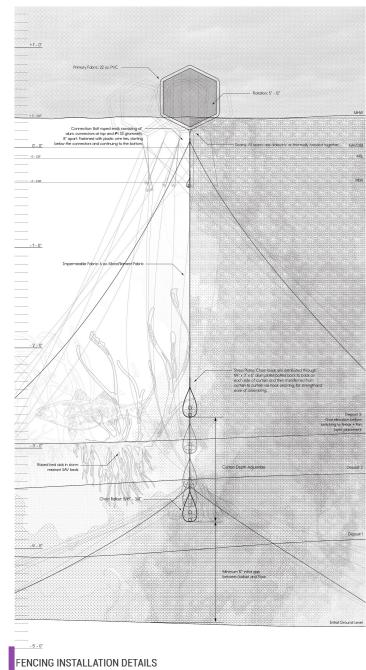


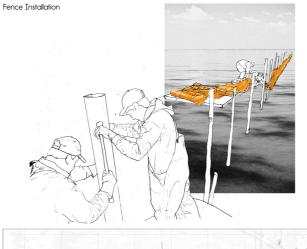
Curtain Installation



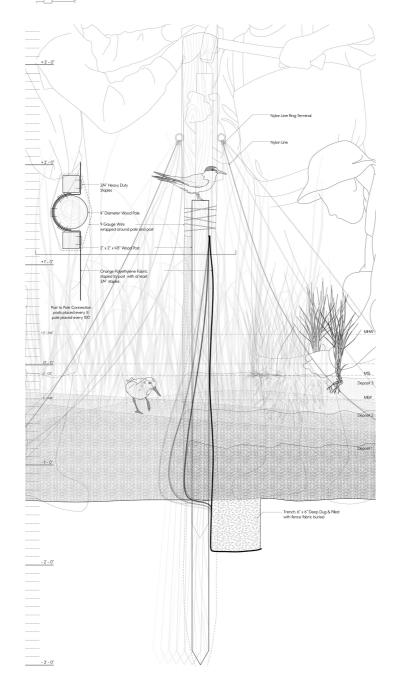


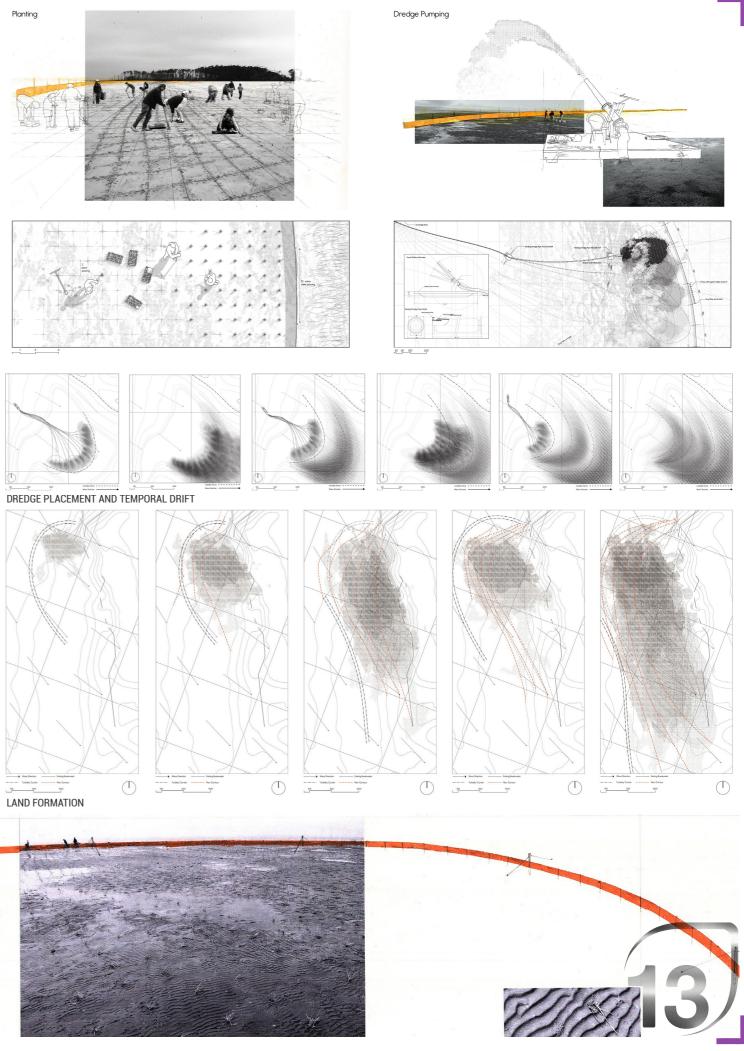
INSTALLATION PHASES



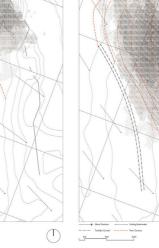














Grounding Crisfield.

delmarva bay

elevated road

dredge mound

dredge channel

drainage ditches

This is a thin place. Its flatness means that even the smallest topographic changes matter a great deal. In Crisfield and the surrounding landscape, people have been working with and manipulating the ground for centuries. The range of strategies and ground manipulations indicate ways people have and will continue to live with and respond to this wet, ever-changing place.

Country/CityCrisfield, Maryland, Pocomoke Sound, Chesapeake Bay, USAUniversity / SchoolUniversity of Virginia School of Architecture, Department of Landscape ArchitectureAcademic year2024-2025Title of the projectMarsh RhythmsAuthorsAlexander Heald, Alex Fry, Alexandra Daley, Ruth Shatkay



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TECHNICAL DOSSIER

Title of the project	Marsh Rhythms
Authors	Alexander Heald, Alex Fry, Alexandra Daley, Ruth Shatkay
Title of the course	LAR 7020 Prototyping the Bay: Landscape as Medium
Academic year	2024-2025
Teaching Staff	Bradley Cantrell and Leena Cho
Department / Section / Program of belonging Department of Landscape Architecture	

University / School University of Virginia School of Architecture



In response to the threat of sea level rise in Crisfield, Maryland, the project builds upon an existing proposal to elevate roadways and seawall edges, transforming infrastructure into a catalyst for a future imaginary. The project envisions a Crisfield that embraces its shifting coastline, creating landscape typologies that stitch the elevated barrier, forming a connection between the town and the evolving tidal landscape.

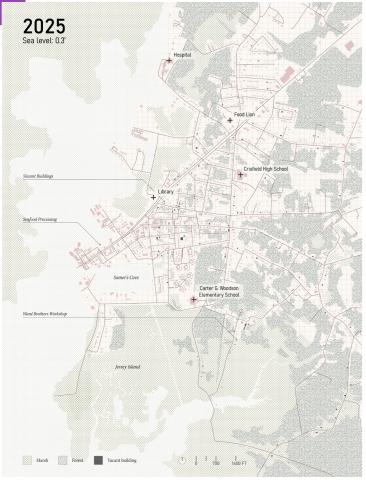
A component of this vision is the adaptation of decommissioned buildings, breathing life into vacancy as hubs for community experiences and ecological education. The sites are woven into the town's fabric through a network of pathways and boardwalks. The circulation system is designed as a sensory experience; the texture of the pathways and ground surfaces vary, providing a tactility for people to engage with the evolving landscapes. Materials like weathered wood, oyster shells, and vegetation differentiate the isolated interior from the transitional zones and the wilder, shifting marshlands outside the barrier, creating a connection to the environment. Within the barrier, the project proposes a series of interconnected stormwater management parks. The landscapes are designed not just as infrastructure but as community amenities. Capturing and filtering stormwater, these parks mitigate flooding in the interior while providing new recreational spaces, habitat for local flora and fauna, and educational opportunities for residents. The approach to adaptation recasts the challenge of sea level rise as an opportunity to forge a stronger, more diverse, and connected community fabric for the future of Crisfield.

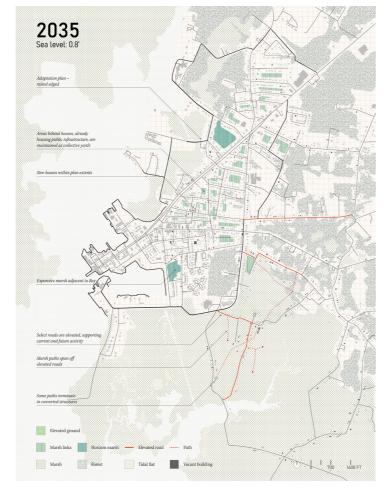
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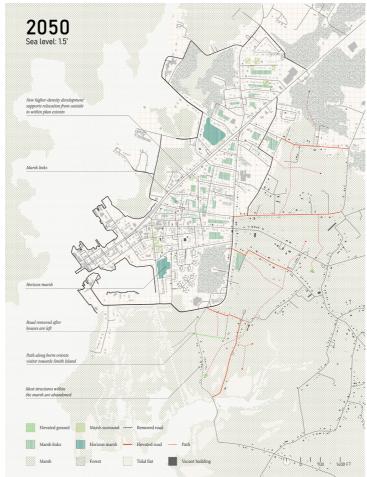
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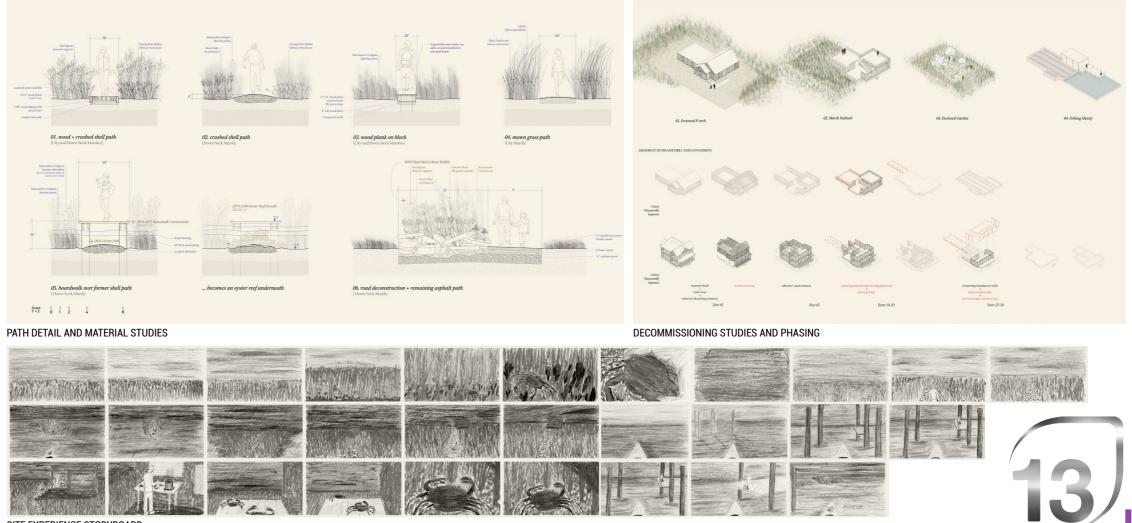




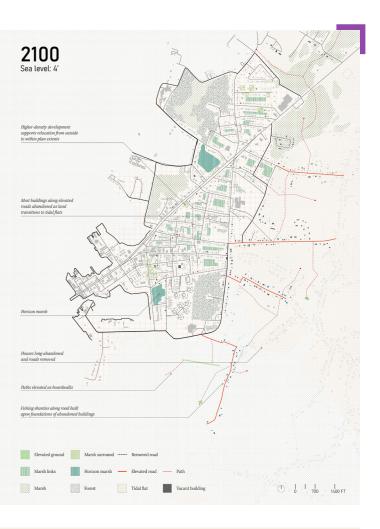


SITE EVOLUTION WITH SLR PREDICTIONS

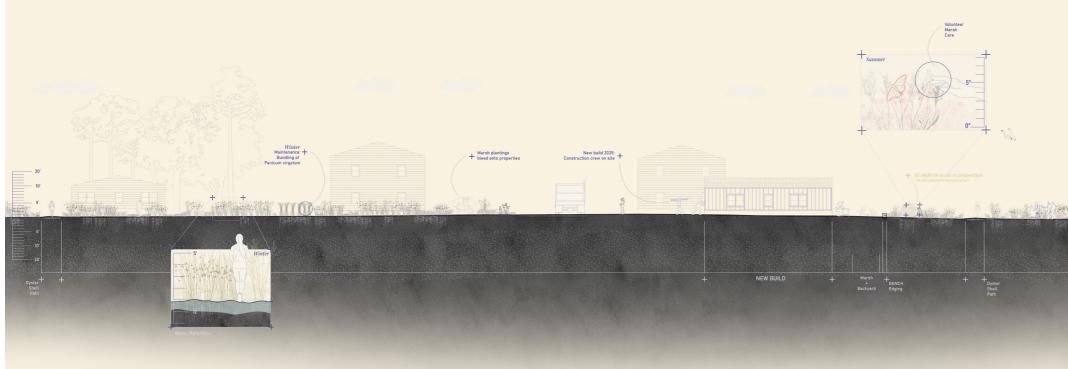




SITE EXPERIENCE STORYBOARD





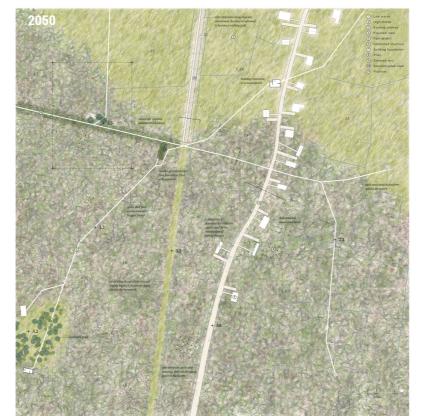




COMMUNITY POND SECTION

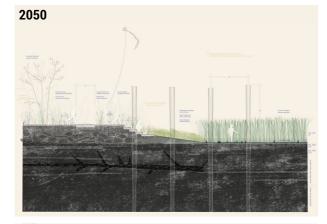




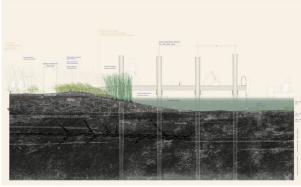




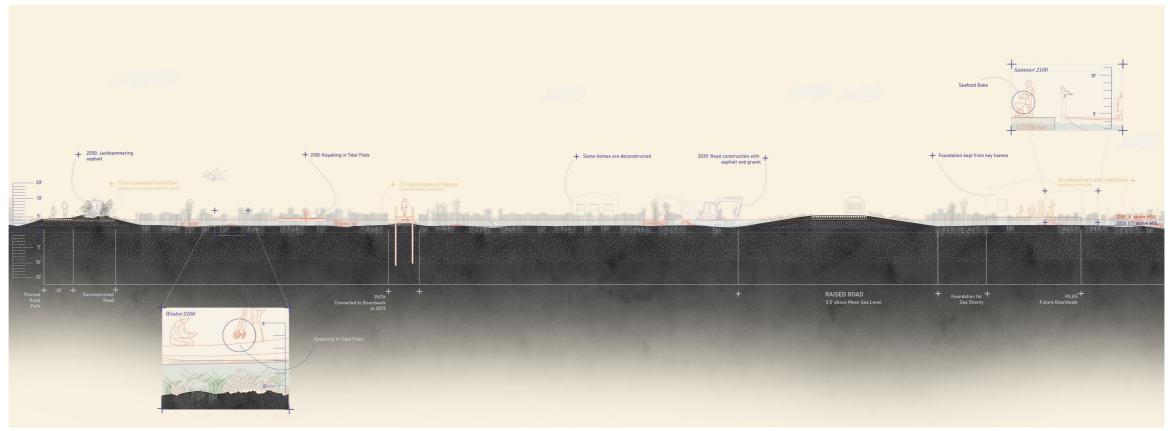
SITE 2 ACCESS POINTS CHANGE TO SEA LEVEL RISE







RESPONSIVE ACCESS WITH SLR

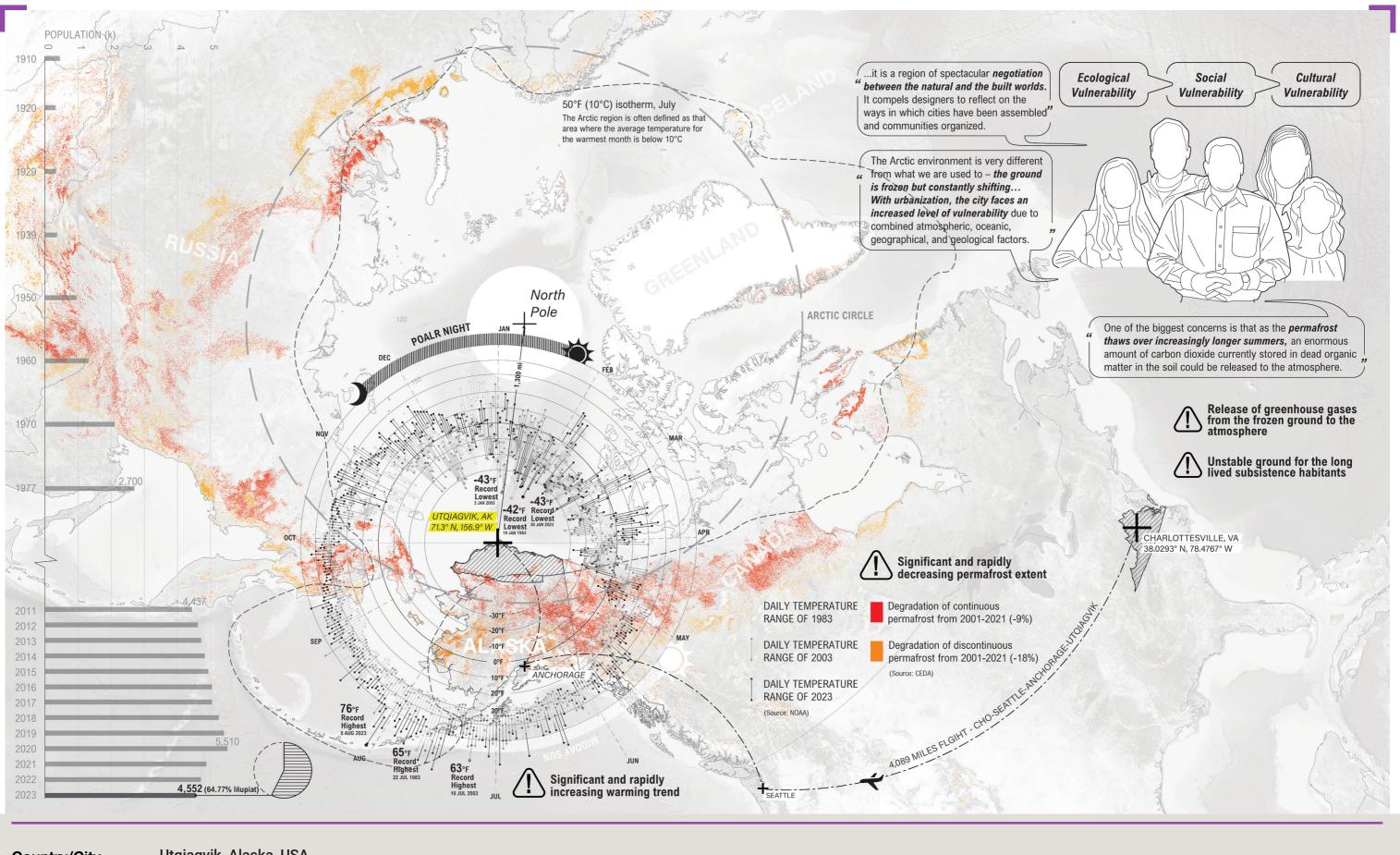


SITE 2 SECTION: DOWN NECK, OUTSIDE OF PROTECTION AREA

2100







Country/City	Utqiagvik, Alaska, USA
University / School	University of Virginia School of Architecture, Department of Landscape Architecture
Academic year	2024-2025
Title of the project	Cultivating Permafrost: Snow and Meltwater Management in Utqiagvik, Alaska
Authors	Ari Bell, Joyce Fong, Shuai Yuan



TECHNICAL DOSSIER

Title of the projectCultivating Permafrost: Snow and Meltwater Management in Utqiagvik, AlaskaAuthorsAri Bell, Joyce Fong, Shuai YuanTitle of the courseALAR 8010 City Built on Thawing GroundAcademic year2024-2025Teaching StaffLeena Cho and Matthew JullDepartment / Section / Program of belongingDepartment of Landscape Architecture &
Department of Architecture

University / School University of Virginia School of Architecture



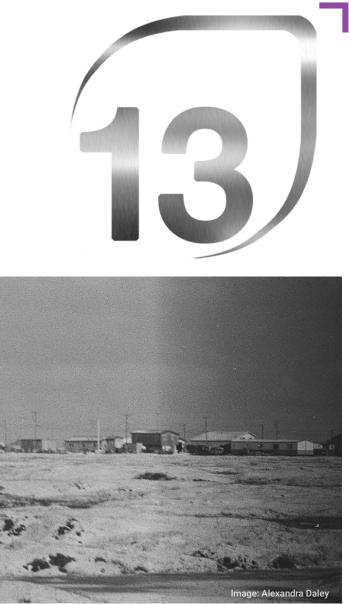
Located 330 miles north of the Arctic Circle, Utqiaġvik, Alaska (71.29° N, 156.79° W) is the largest Iñupiat community in the U.S. (~4,930 residents) and lies at the forefront of climate change. Rising temperatures, increased precipitation, altered freeze-thaw cycles, and urban heat island effects are accelerating permafrost degradation—undermining infrastructure and threatening ecological and cultural systems. In particular, growing volumes of snow and meltwater contribute to frequent flooding, overwhelming limited drainage infrastructure and mobilizing contaminants across the tundra and subsistence food systems. Current responses to snow and water management remain improvised and unsustainable.

This project proposes a watershed-block framework as a zoning and maintenance strategy rooted in both thermodynamic principles and community empowerment. Each watershed block reflects localized conditions such as land use and microtopography, enabling more responsive snow and meltwater management. The approach links residents with Public Works across hydrologic units, using existing equipment, local knowledge, and social structures to choreograph snow movement and mitigate waterrelated risks. In residential zones, the design allows homeowners to manage runoff, stabilize foundations, and engage with tundra ecologies. In areas near contaminated sites, such as the airport, runoff is slowed and filtered to prevent pollutants from reaching vital water supplies. Watershed blocks offer a scalable, community-based model for landscape management—supporting long-term permafrost preservation and the resilience of both ecological systems and lñupiat cultural heritage.

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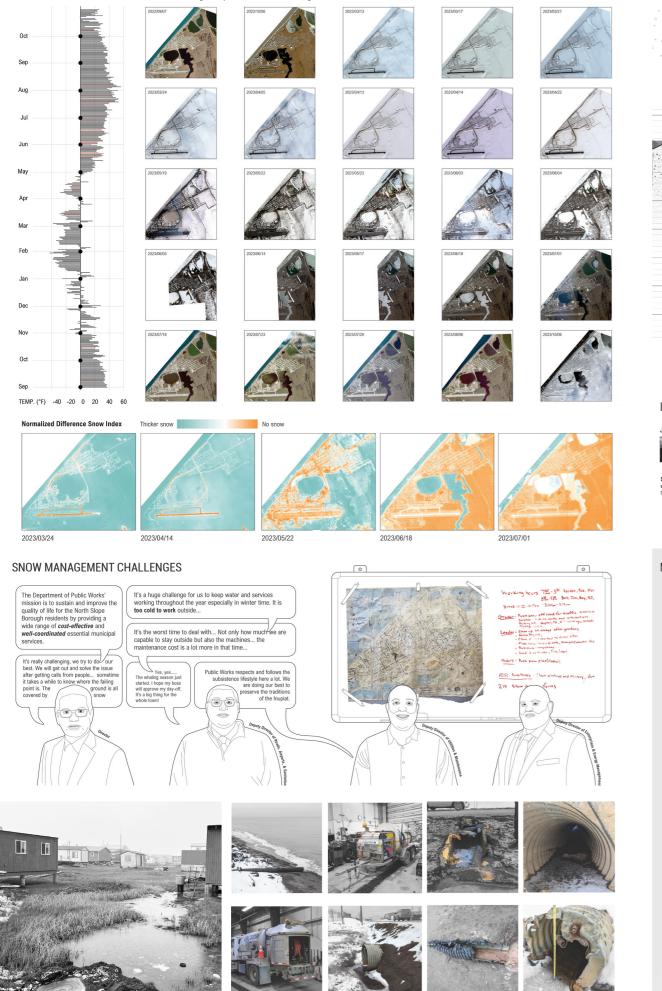
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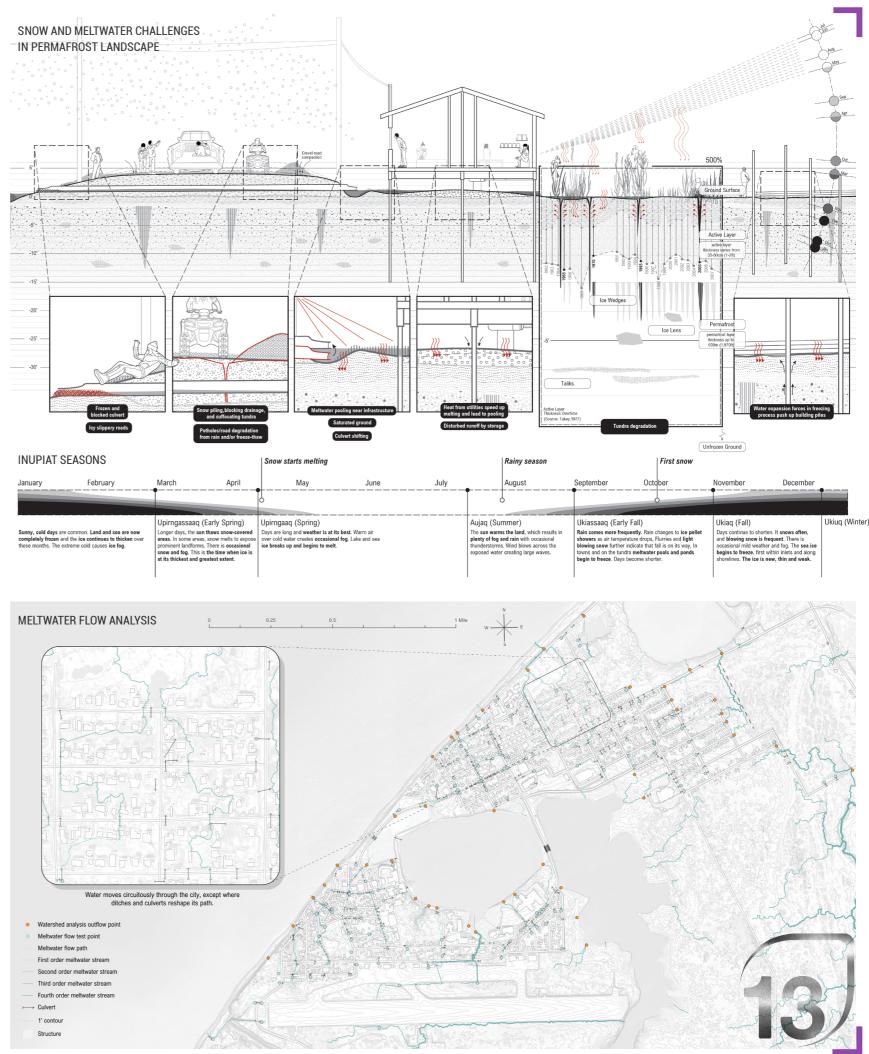
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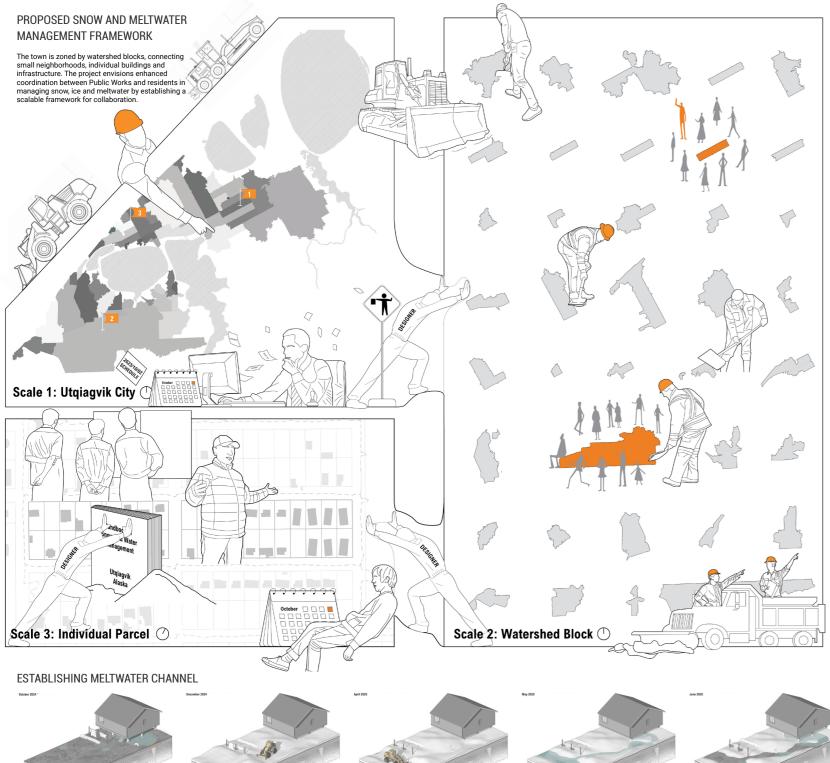
SNOWCOVER & SNOWMELT PATTERN ANALYSIS

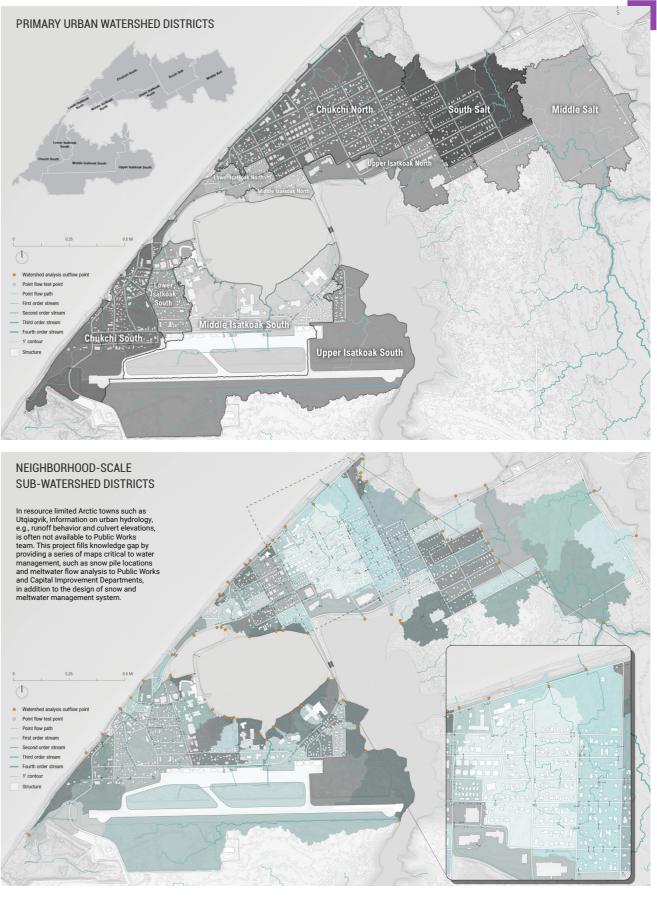
Snowcover change comparison via remote sensing: 2022-23



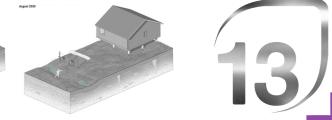












SNOW MANAGEMENT CHALLENGES & EXISTING INFORMAL METHODS BY RESIDENTS

SNOW & MELTWATER MANAGEMENT STRATEGIES

