

Sea Level Affecting Marshes Model (SLAMM) Maps

Portsmouth

Portsmouth Map Panels					
37	46	52	58	65	72
43	49	54	59	66	77
44	50	55	60	67	82
45	51	56	61	71	86

The Rhode Island Coastal Resources Management Council (CRMC) and its partners have developed Sea Level Affecting Marshes Model (SLAMM) Maps for the coastal wetlands of all 21 Rhode Island coastal communities. The purpose of these SLAMM maps is to show how coastal wetlands will likely transition and migrate onto adjacent upland areas under projected sea level rise scenarios of 1, 3 and 5 feet in the coming decades. These maps are intended to support state and local community planning efforts and to help decision makers prepare for and adapt to future coastal wetland conditions despite the inherent uncertainties associated with future rates of sea level rise.

The SLAMM maps were developed using a digital wetlands coverage derived from the 2010 National Wetlands Inventory for Rhode Island. The elevation data used in the model was developed from the 2011 USGS LIDAR elevation dataset. These maps were developed using the “protection off” mode for the model simulations, thereby depicting the highest potential for marsh migration despite current limitations such as parking lots, roads or other development. In this way the maps illustrate opportunities for conservation and potential land modification to enhance wetland migration and restoration. The SLAMM data do not consider natural processes such as coastal erosion or the impacts of coastal storms that can have significant influence on shoreline location and sediment dynamics. Despite these limitations the data still provide a valuable tool to identify those places that provide the best opportunity for future saltmarsh habitat and conservation priorities, and provide valuable information to help plan for new development and infrastructure. Additional map parameters, data sources and caveats can also be found at www.crmc.ri.gov

These SLAMM maps are Geographic Information System (GIS)-based map images exported as PDF files to reduce file size and ease of access. In total there are 149 map panels that cover the entire Rhode Island shoreline and each panel has four maps showing the initial (current) wetland condition followed by 1, 3, and 5-foot of sea level rise scenarios.

No warranty is expressed or implied by the CRMC and its SLAMM project partners related to the spatial accuracy of these maps and promote no other use of these maps and data other than as a planning tool. These maps should not be used for, and are not intended for, survey and engineering purposes. The data do not take the place of a legal survey or other primary source documentation. They were created for general reference, informational, planning, and guidance use. They are not a legally authoritative source as to the exact location of natural or manmade features.

These maps can be examined at the Council’s office in Wakefield, at the Secretary of State’s office, and on-line at the Council’s website: www.crmc.ri.gov.





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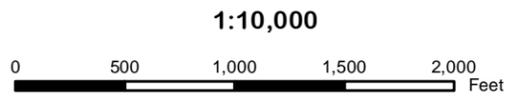
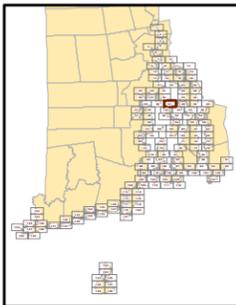
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REIS, URI EDG, RIDEM

Map
37



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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



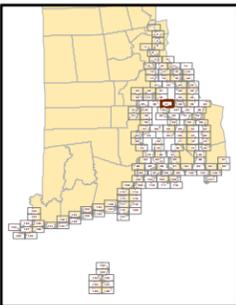
NOAA grant award #: NA12OAR4310108

Map produced by Kevin Ruddock. 4/2/2014



REIS, URI EDC, RIDEM

Map
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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



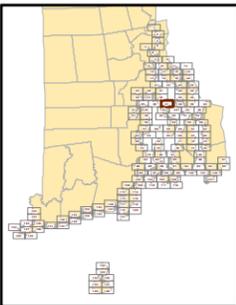
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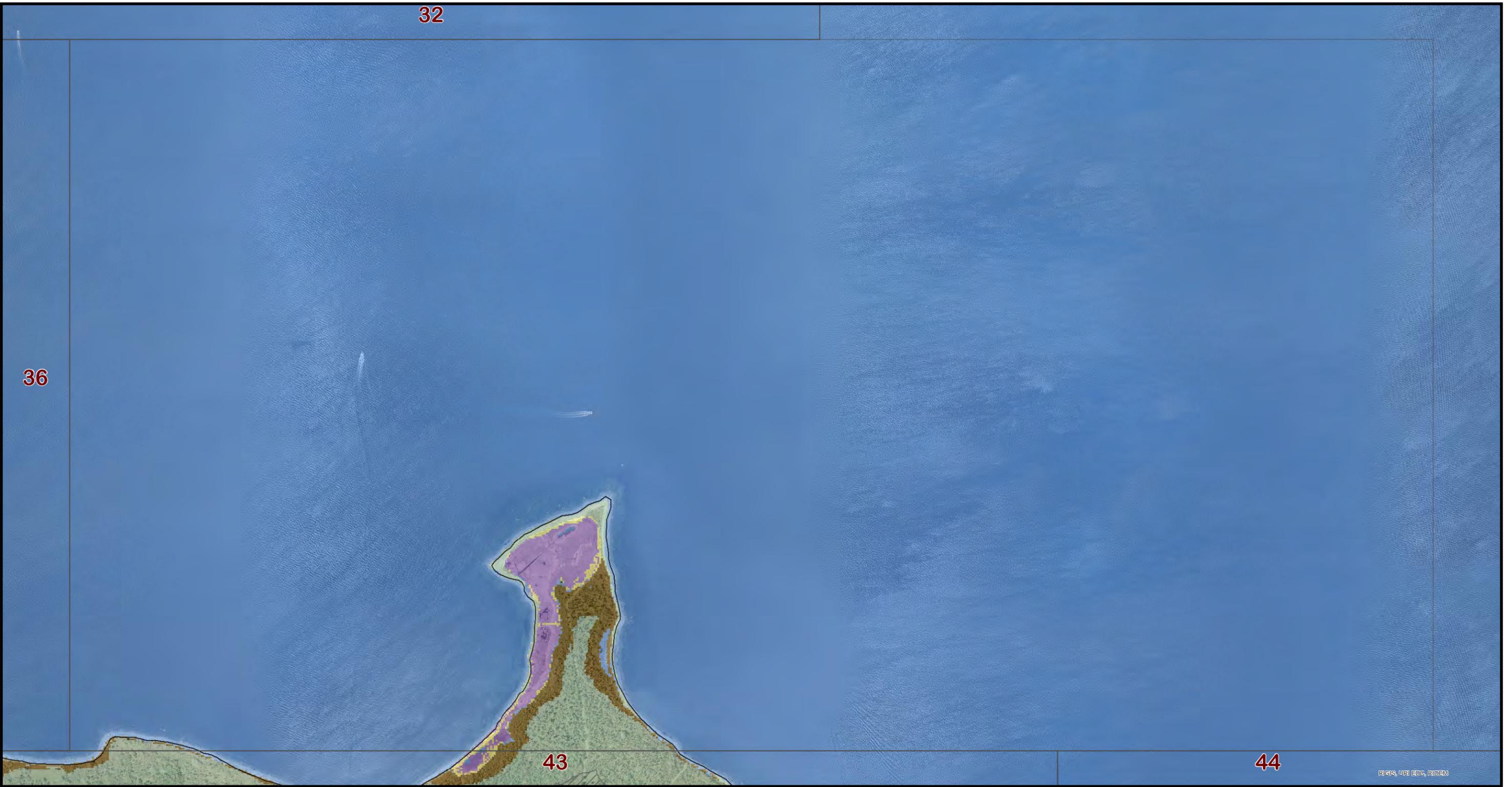
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



NOAA grant award #:
NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



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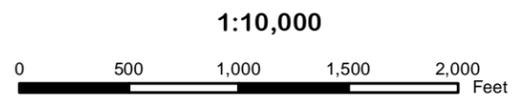
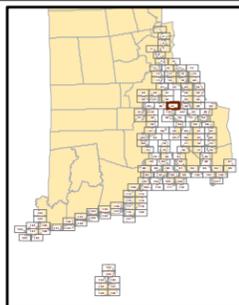
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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

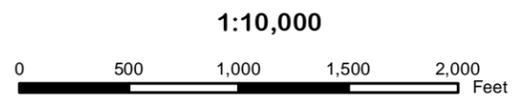
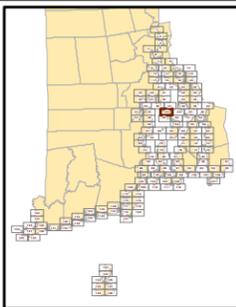


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Tidal Marsh Vulnerability Analysis: Current Condition



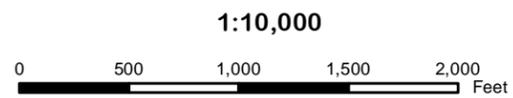
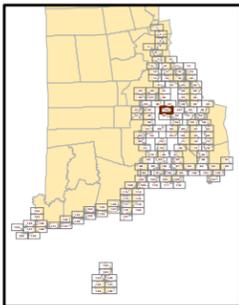
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Map
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

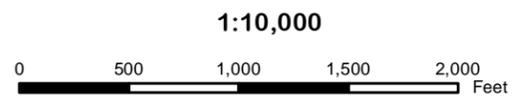
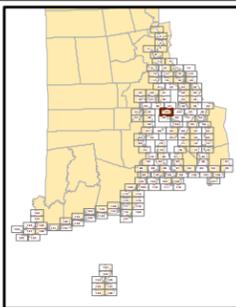


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Map 43



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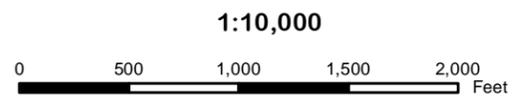
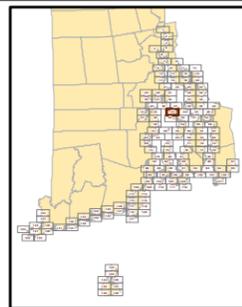
Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108



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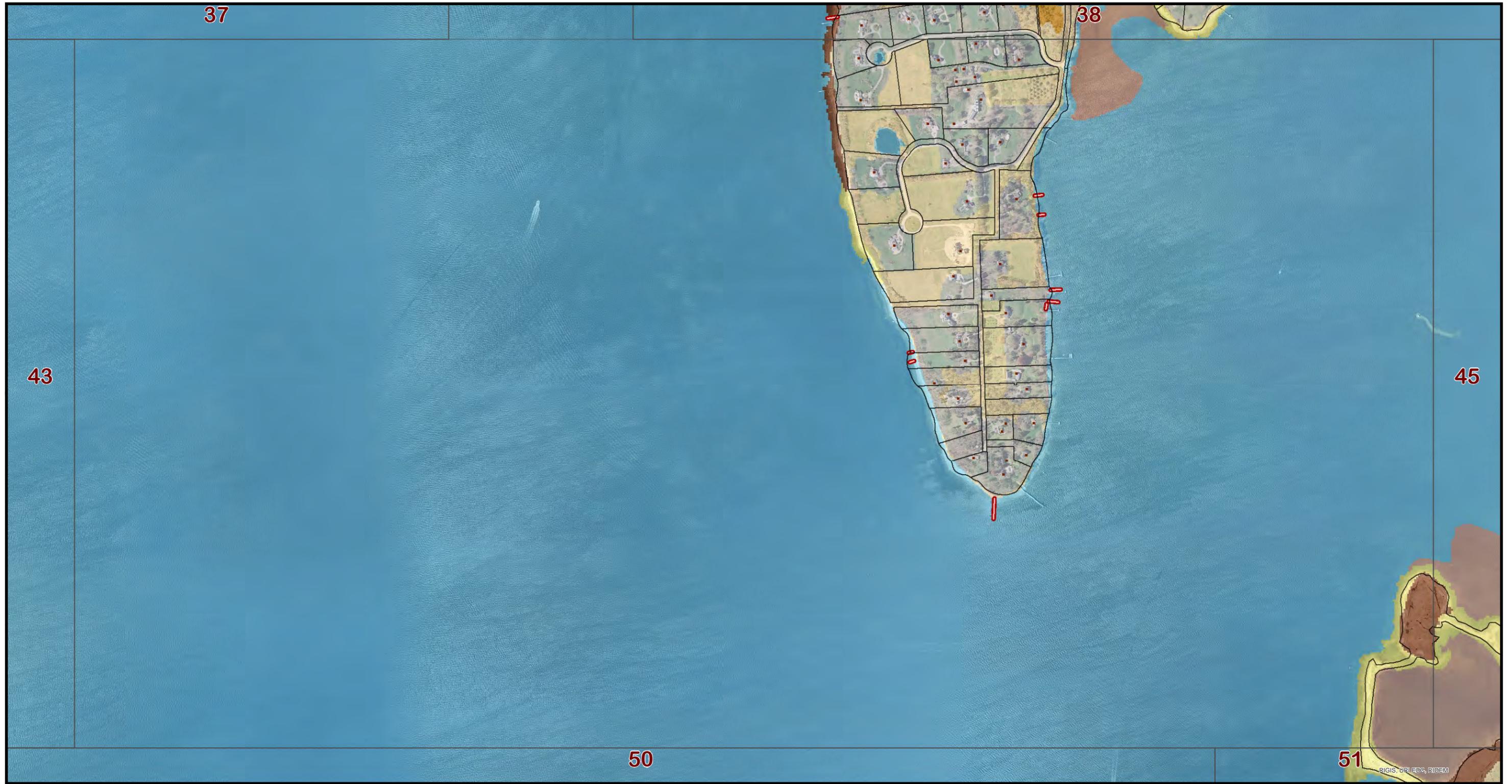


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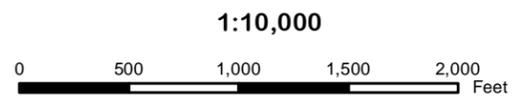
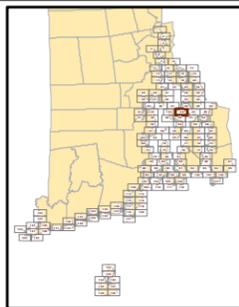
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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





Map
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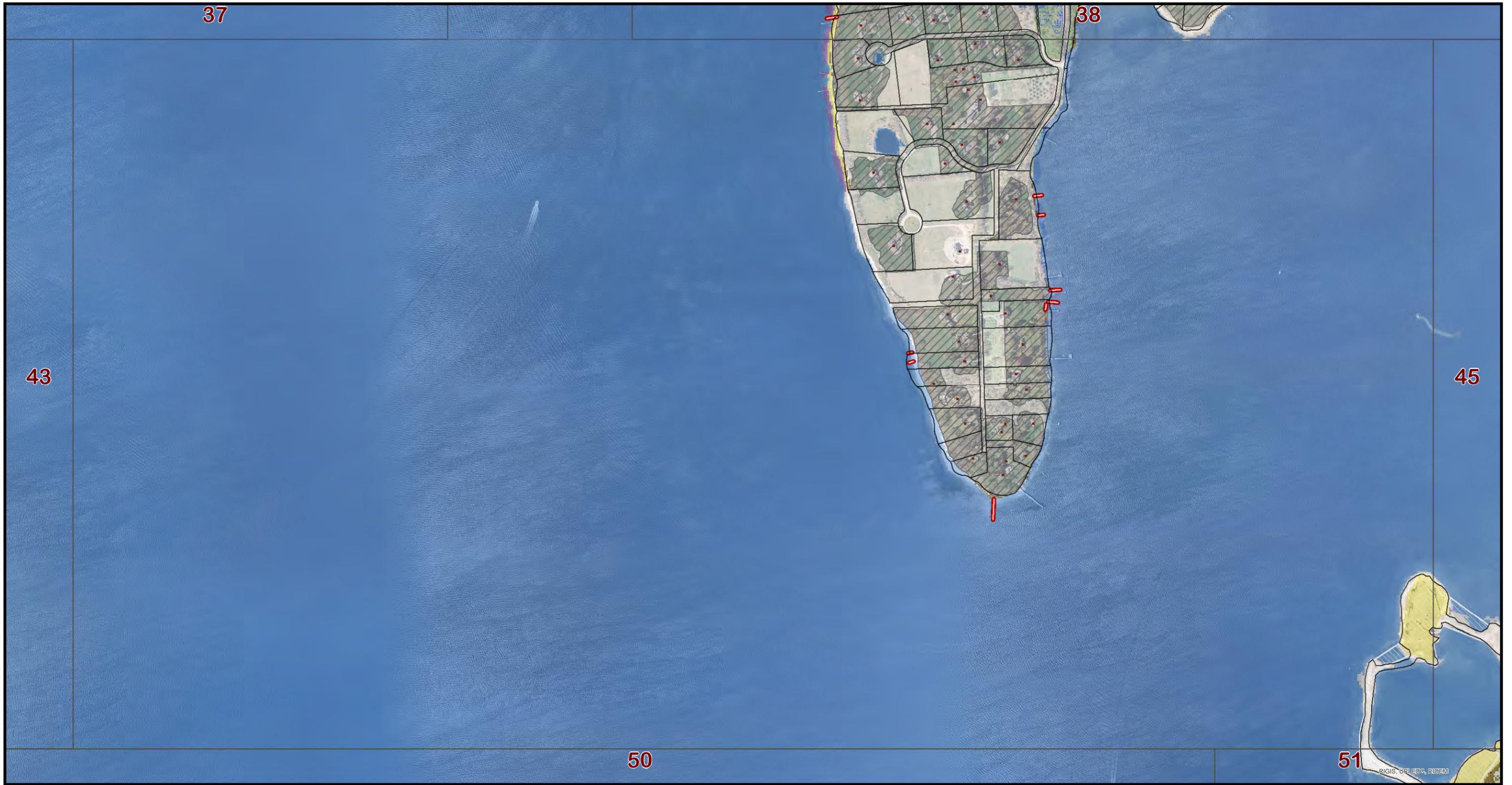


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| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





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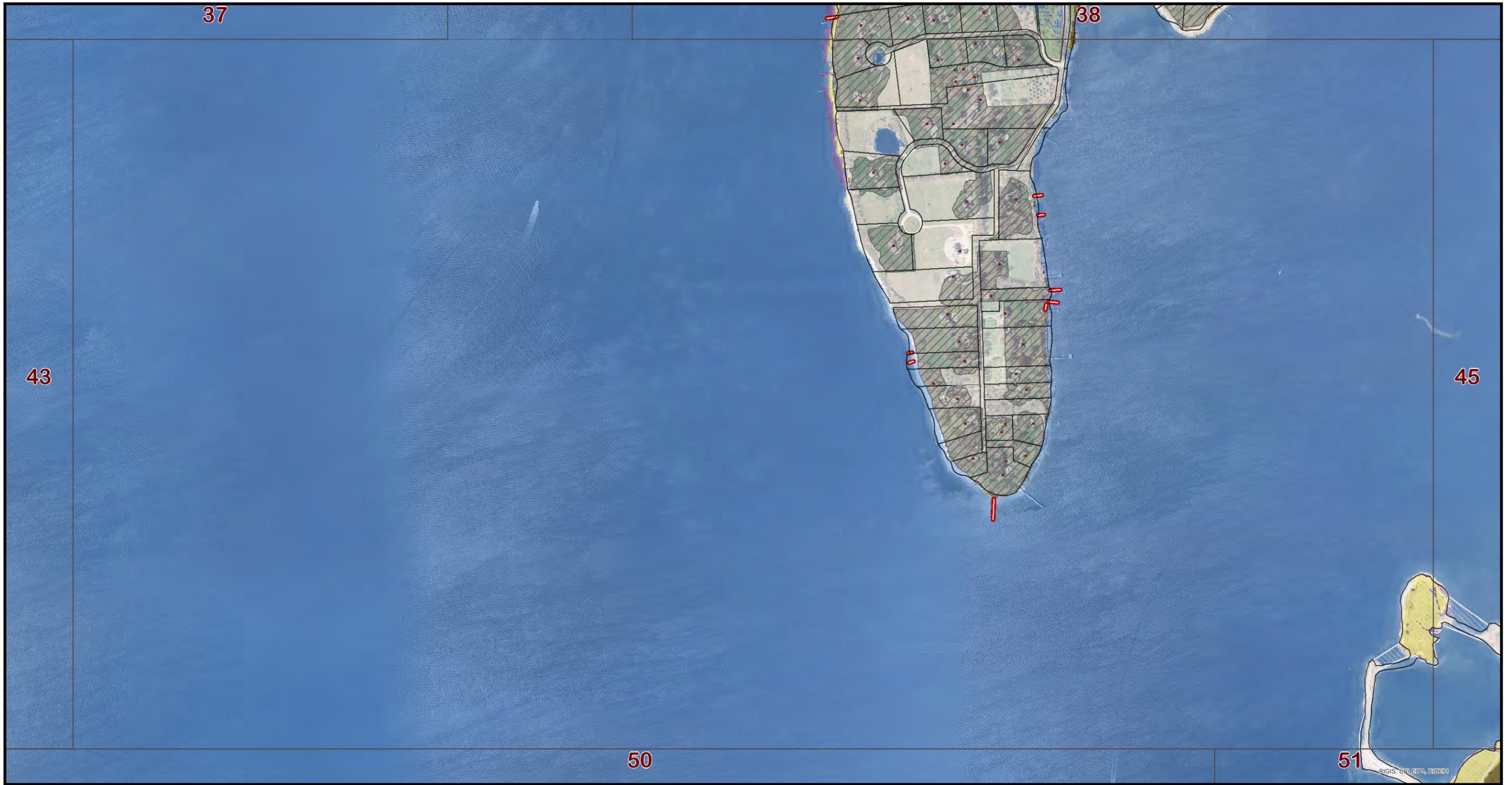
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

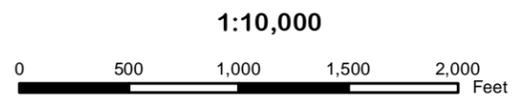
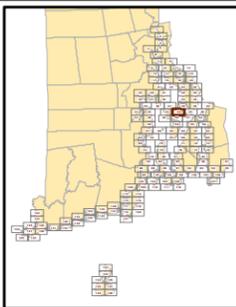


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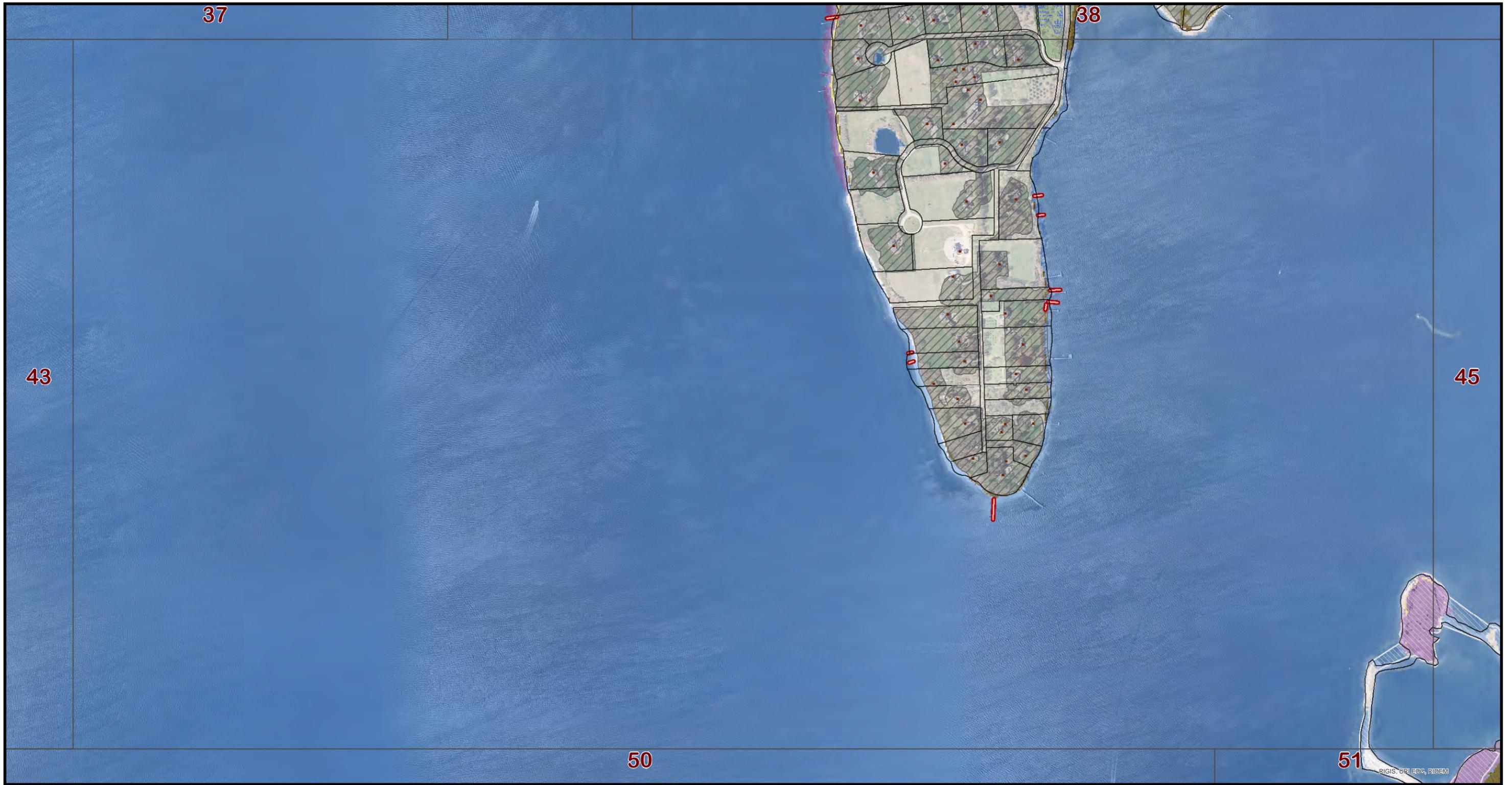


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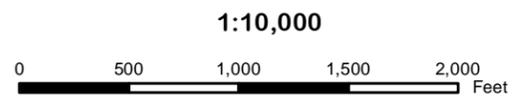
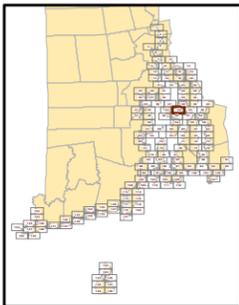
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
44



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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

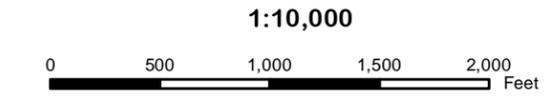


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Map 45



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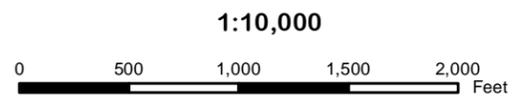
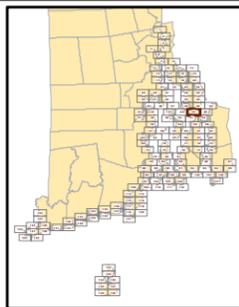
- | | |
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| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map 45



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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

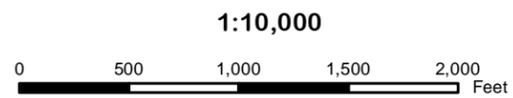
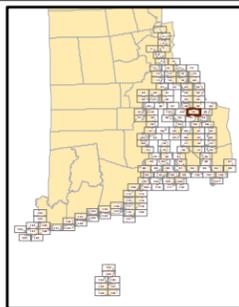


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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model

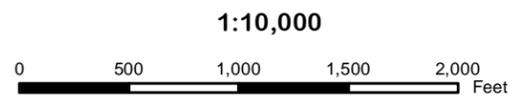
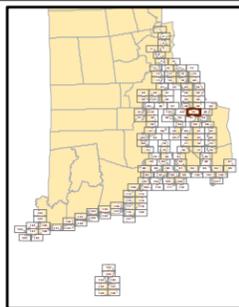


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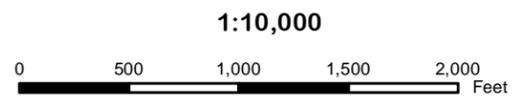
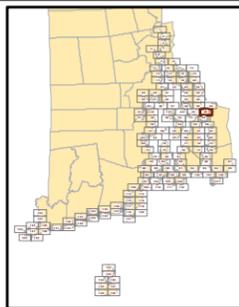
Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108



Map 46



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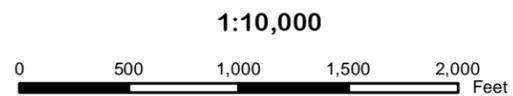
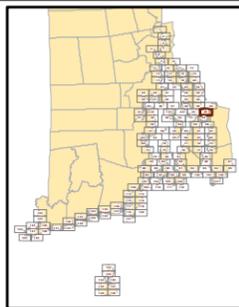
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Tidal Marsh Vulnerability Analysis: Current Condition





Map
46

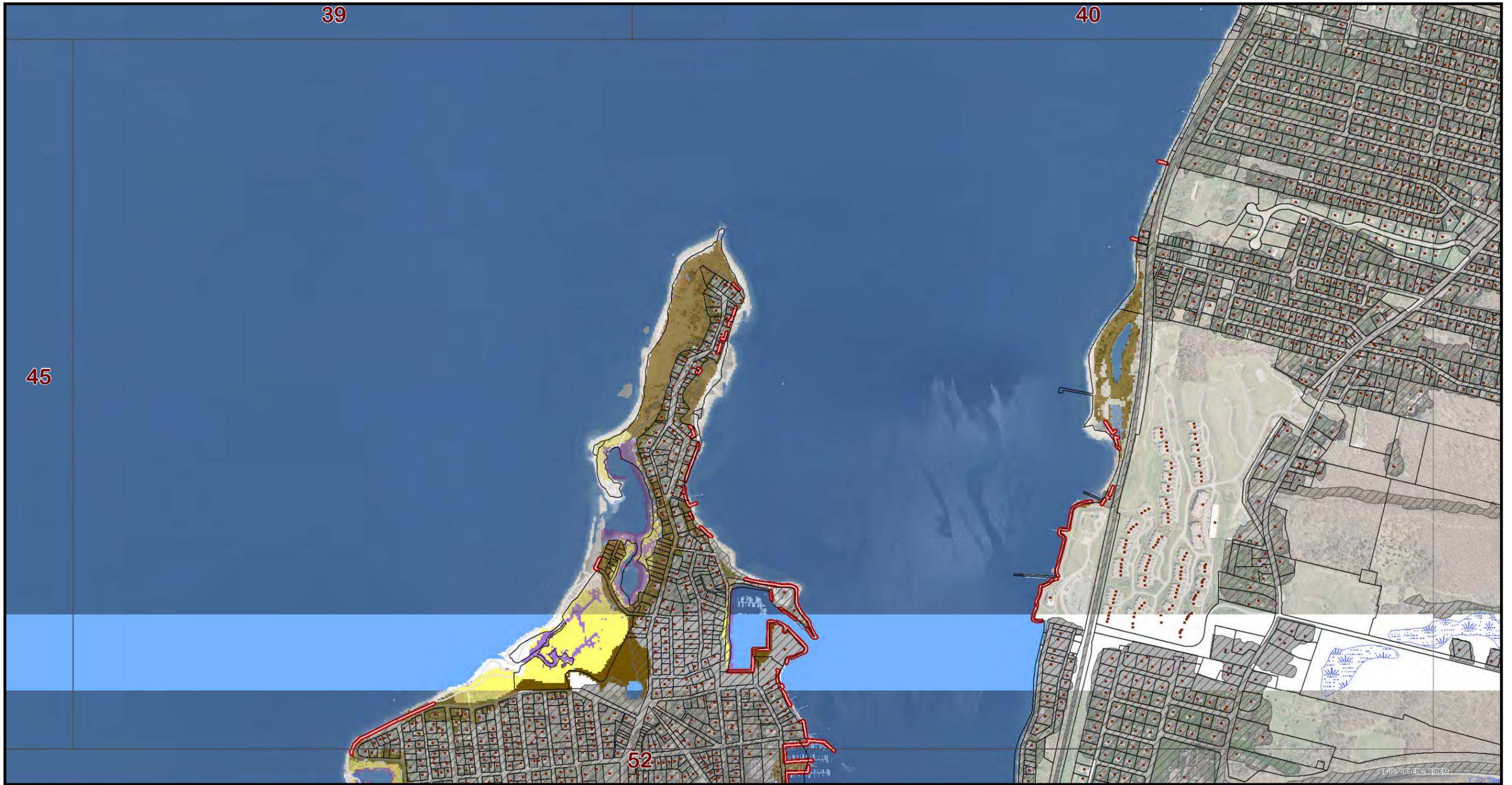


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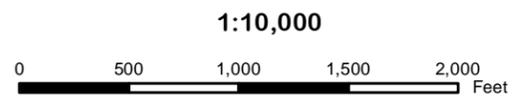
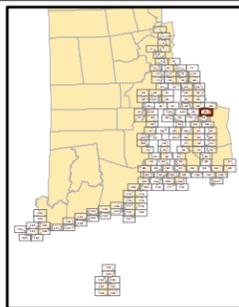
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





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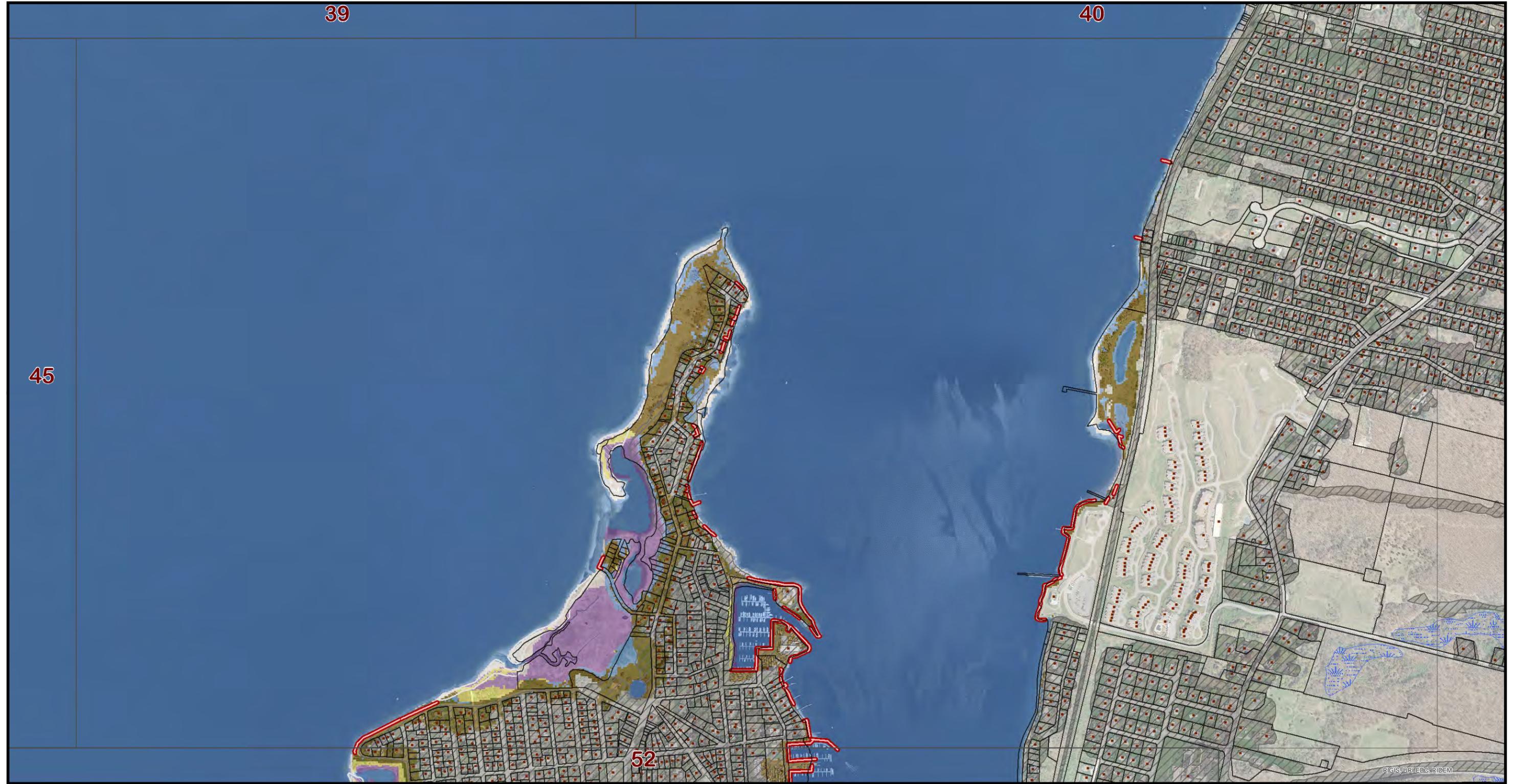


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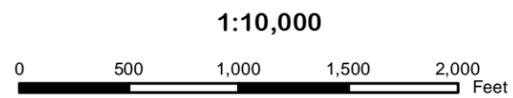
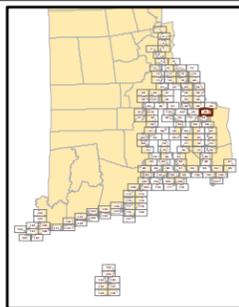
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-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

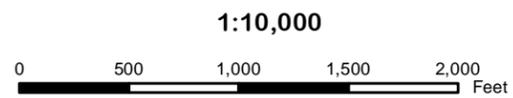
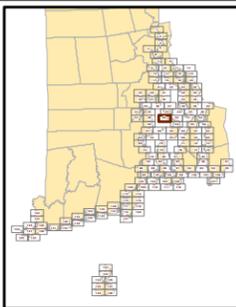


NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
49

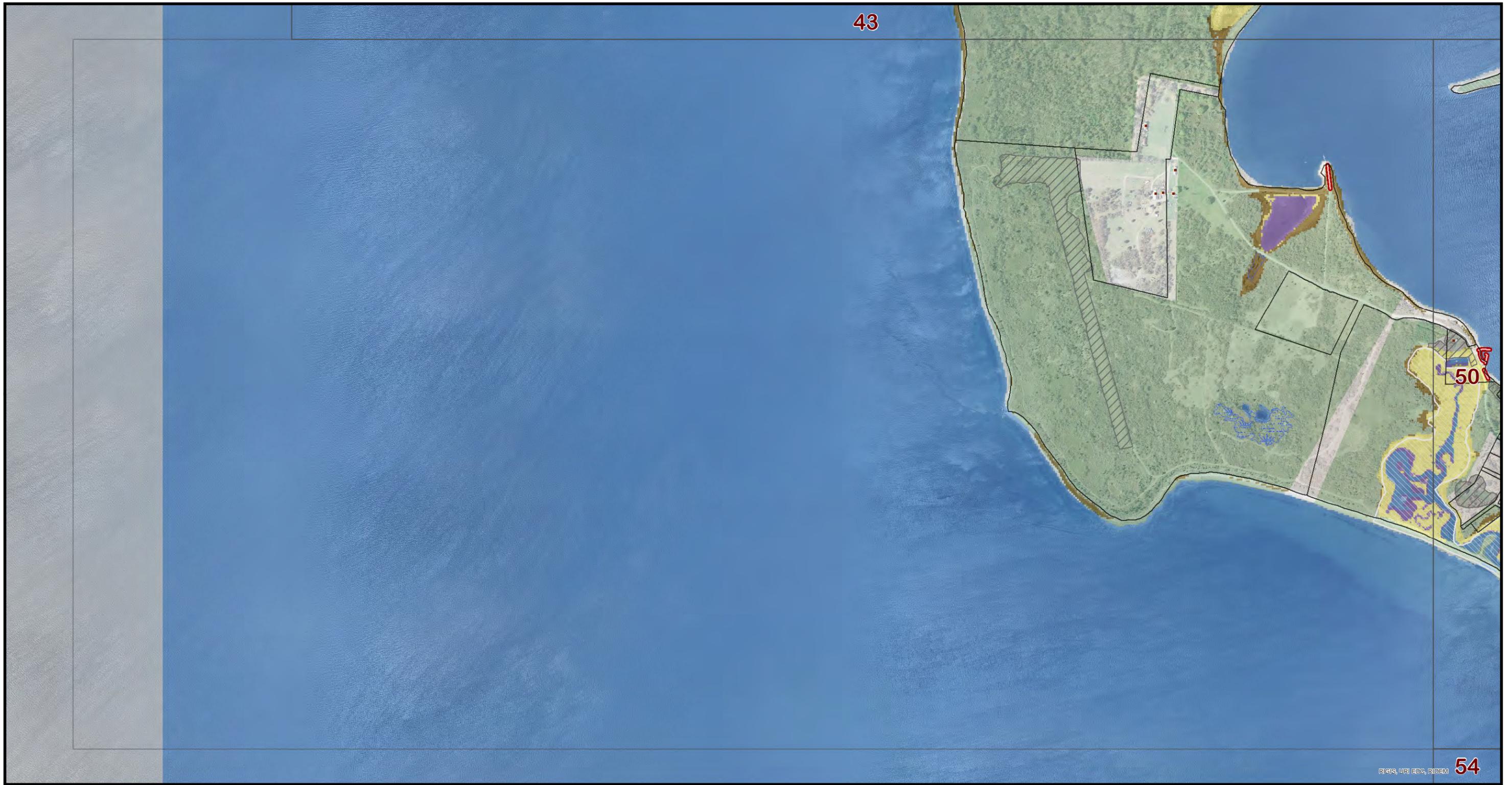


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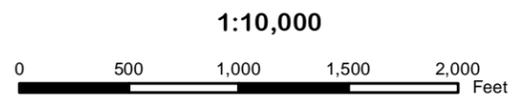
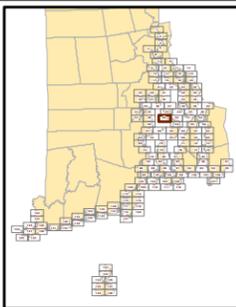
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
49



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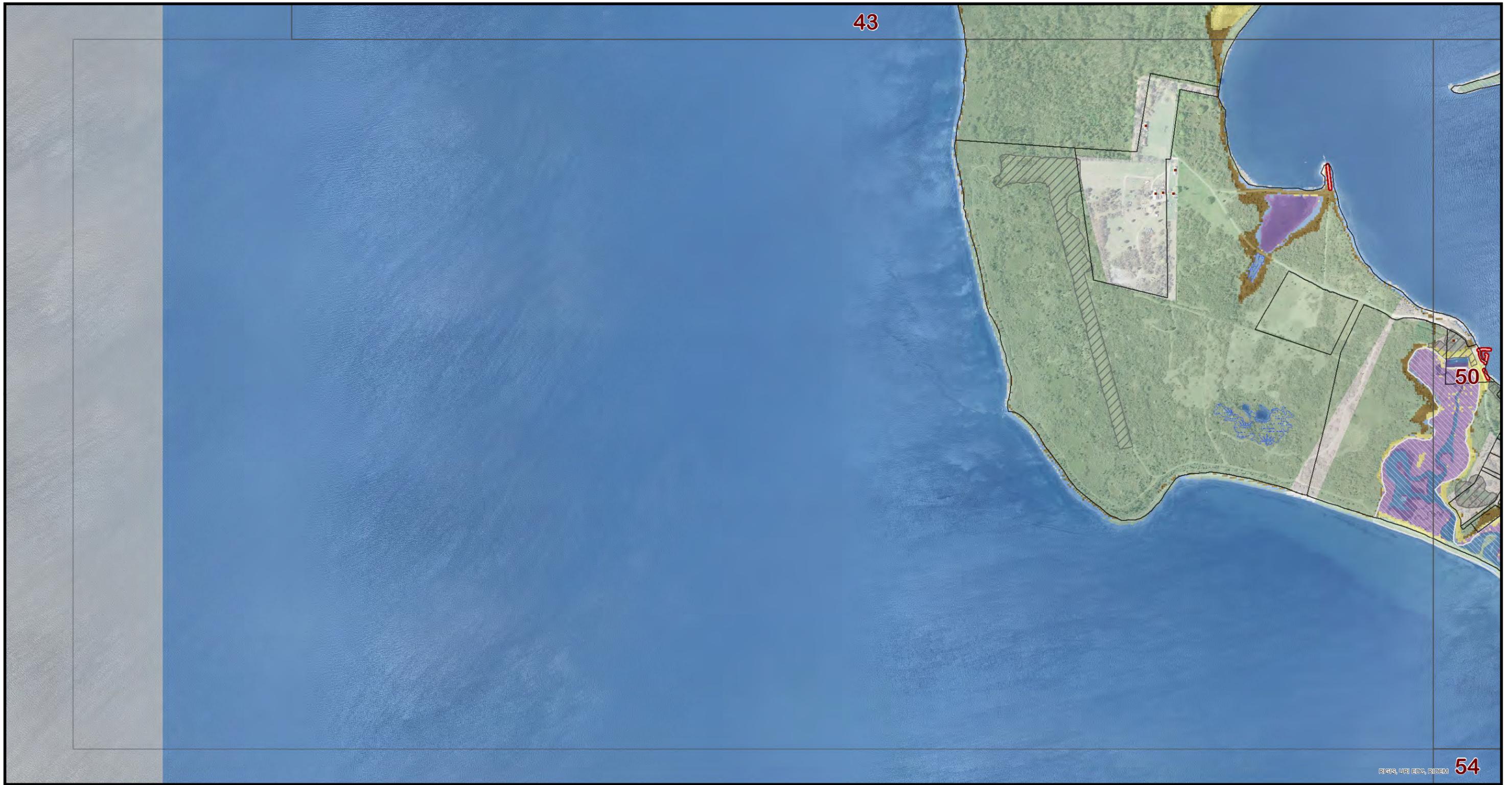
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

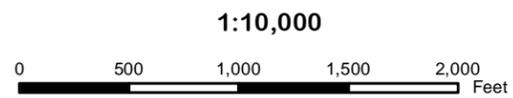
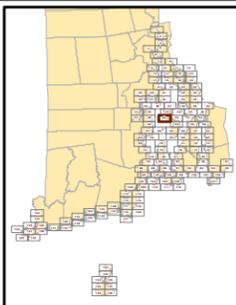


NOAA grant award #:
NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
49



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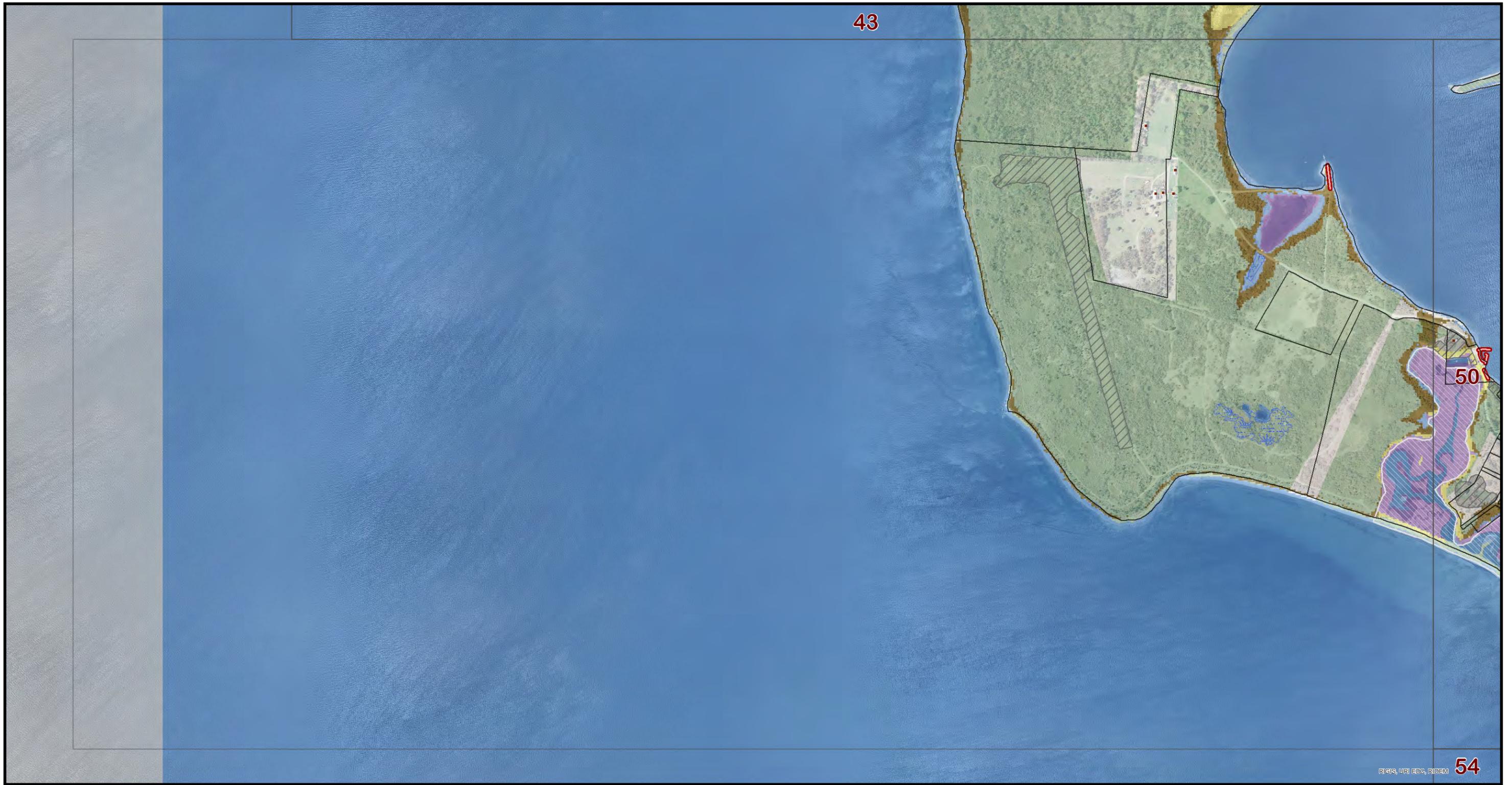
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model

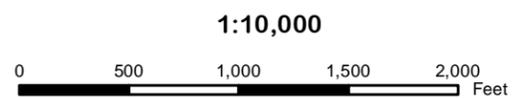
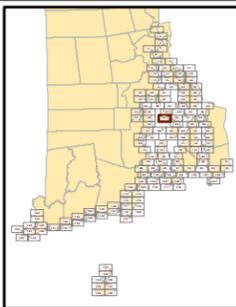


NOAA grant award #:
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Map
49



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

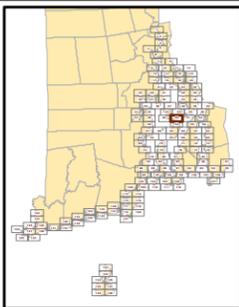
Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





RTEIS, URI EDC, RDEM

Map 50



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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

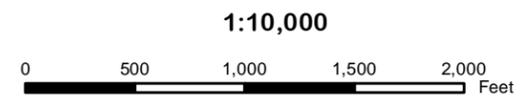
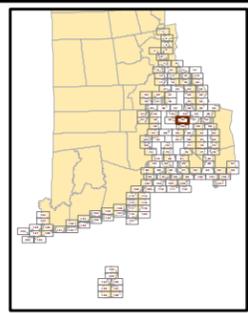
Tidal Marsh Vulnerability Analysis: Current Condition





RTS, URI EDC, RDEM

Map 50



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- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



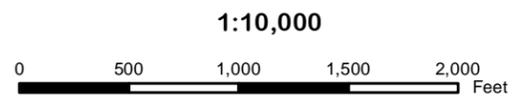
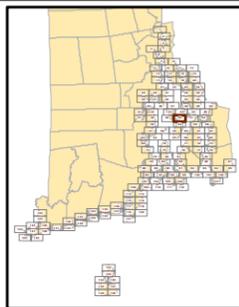
NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



RTS, URI EDC, RDEM

Map
50



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



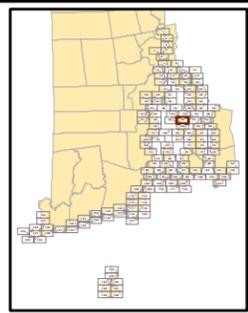
NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



RTS, URI EDC, RDEM

Map
50



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

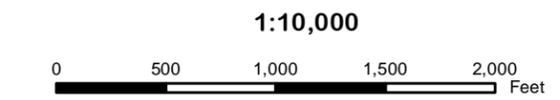
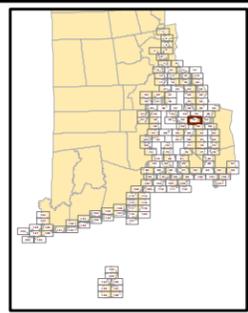


NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
51



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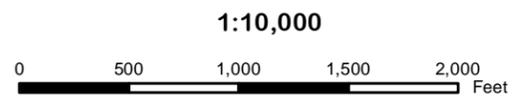
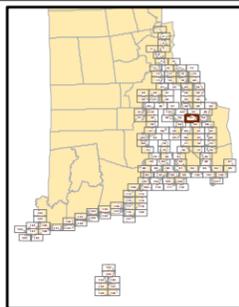
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
51



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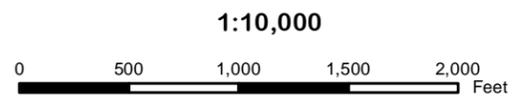
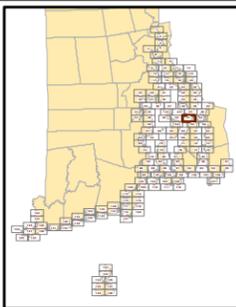
- | | | | |
|--|---------------------------|--|-----------------------|
| | Potential Marsh Zone | | Hardened Shores |
| | Persistent Marsh Zone | | Buildings |
| | Potential Marsh Loss | | Parcel Boundaries |
| | Open Water and Tidal Flat | | Developed Land |
| | Current Fresh Wetlands | | CRMC Coastal Barriers |
| | Protected Open Space | | |

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map 51



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- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

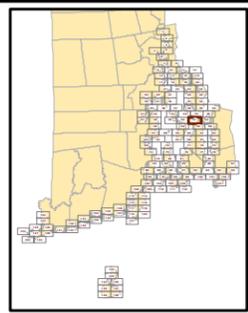
Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108



Map
51



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

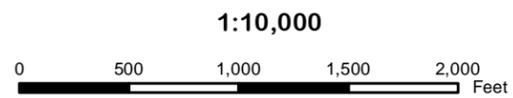
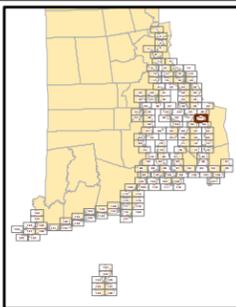


NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
52



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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition

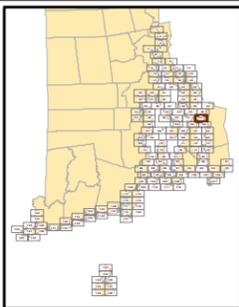


NOAA grant award #: NA12GAR4310108

Map produced by Kevin Ruddock. 4/2/2014



Map
52



1:10,000



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

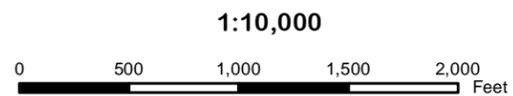
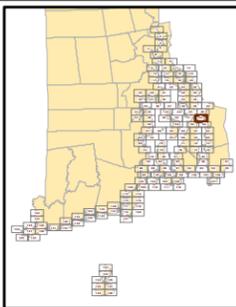


NOAA grant award #:
NA120AR4310108

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Map
52



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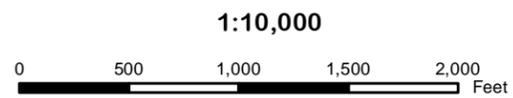
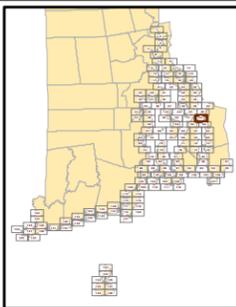
- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map 52



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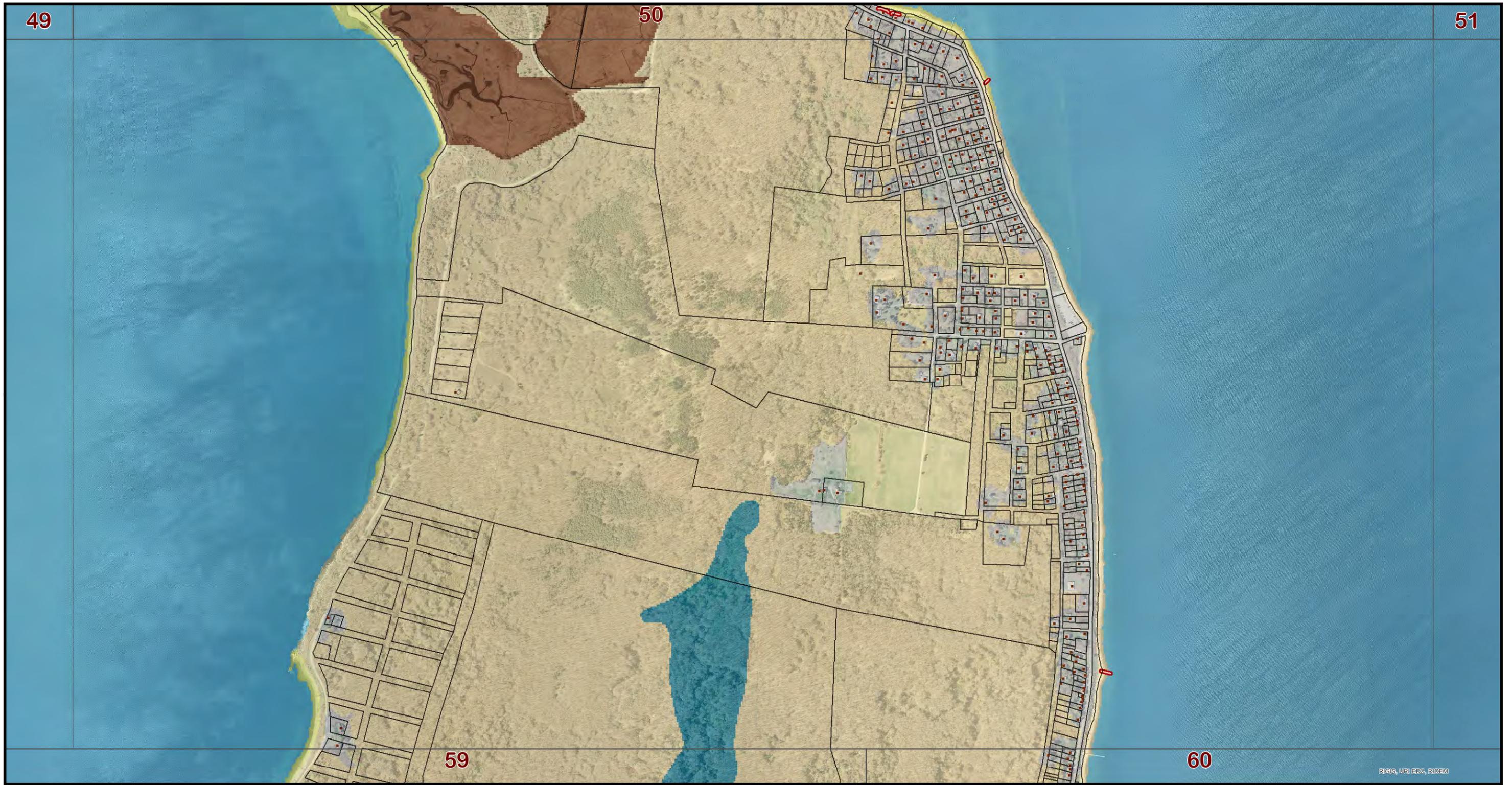
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



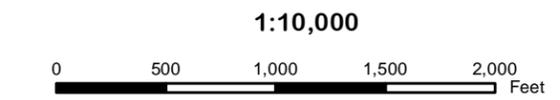
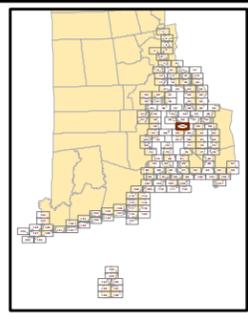
NOAA grant award #: NA120AR4310108

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RTEIS, URI EDG, RIDEM

Map
54



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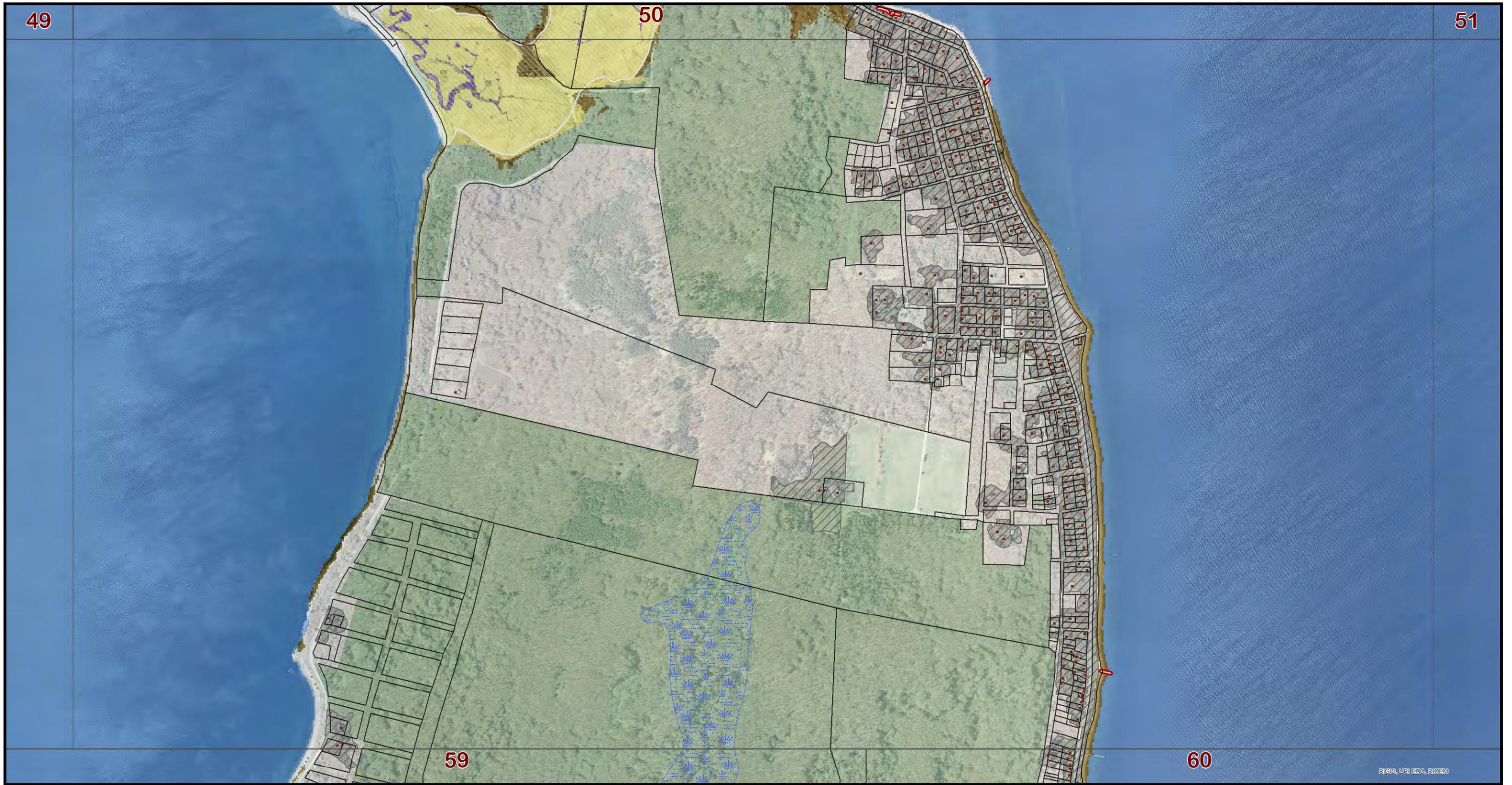
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



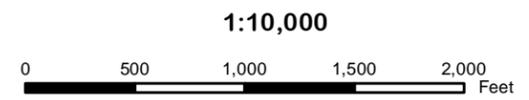
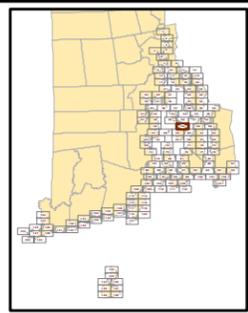
NOAA grant award #: NA12GAR4310108

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Map 54



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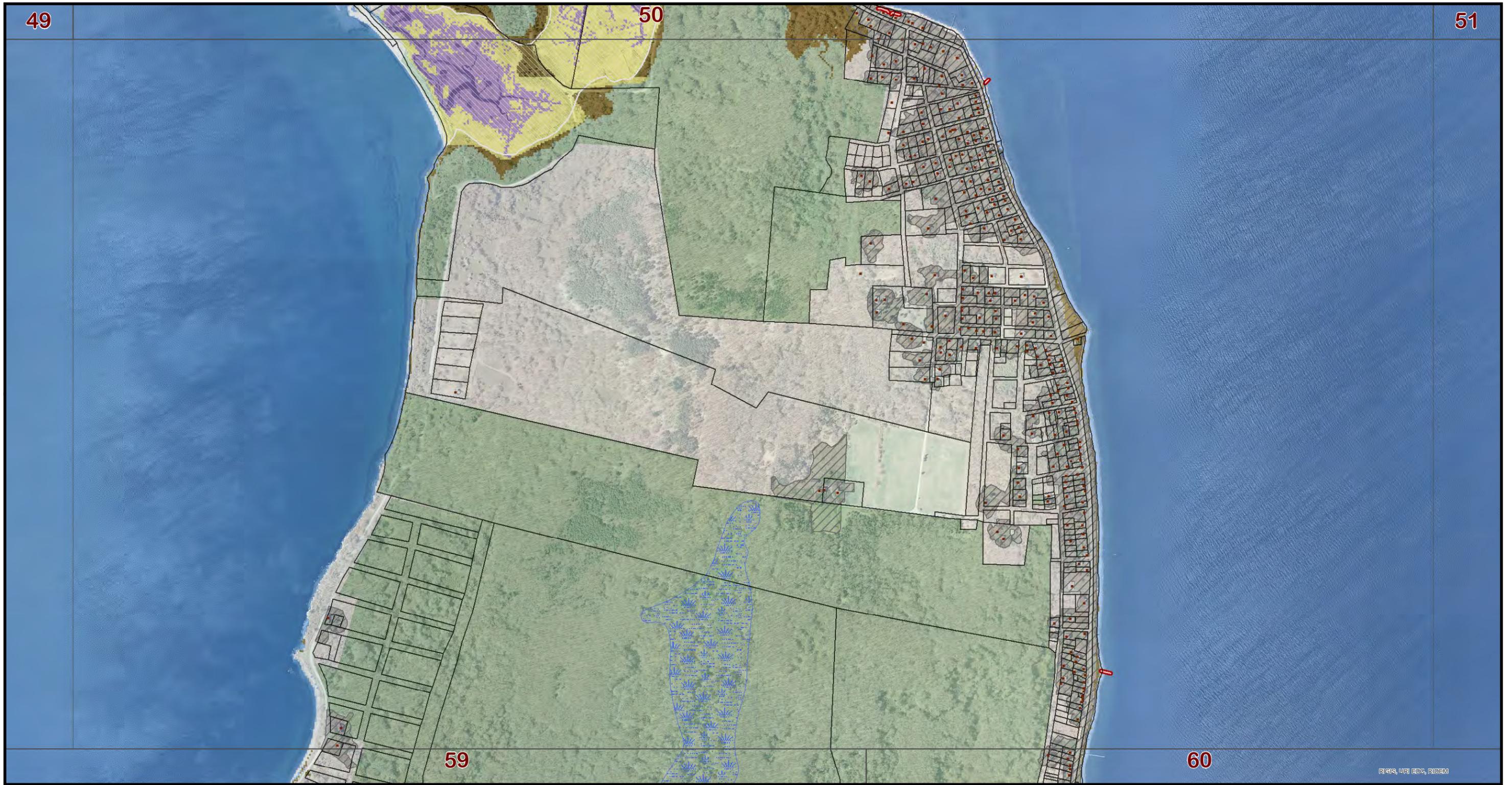
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



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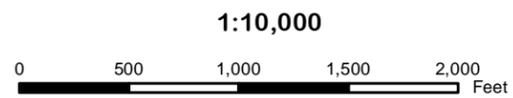
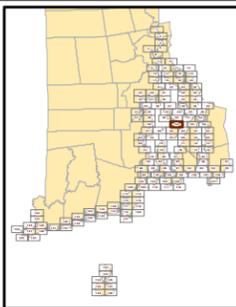
51

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REIS, URI EDC, RIDEM

Map
54



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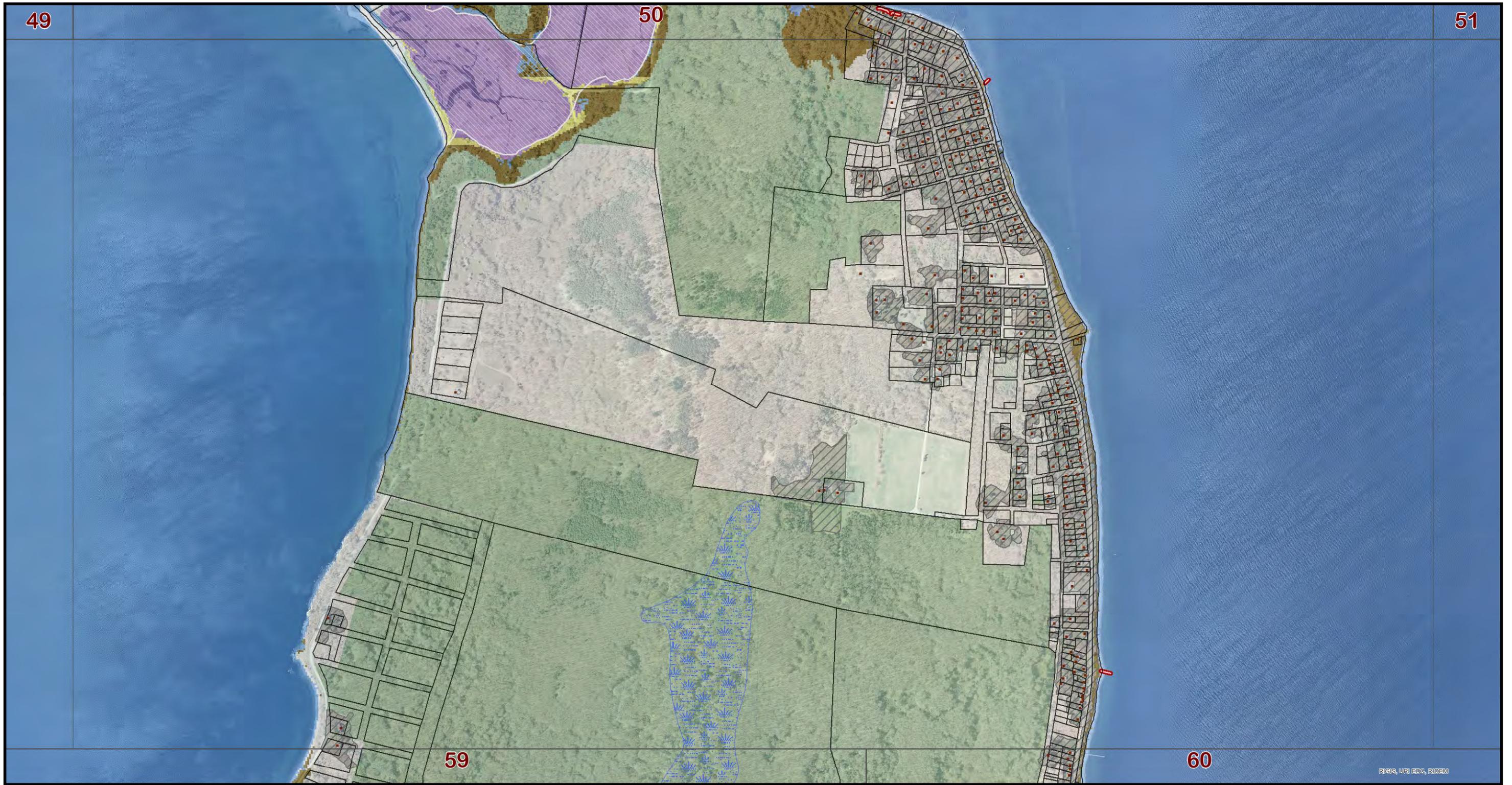
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



49

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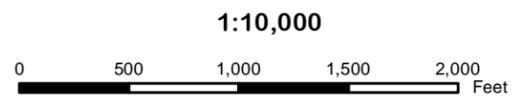
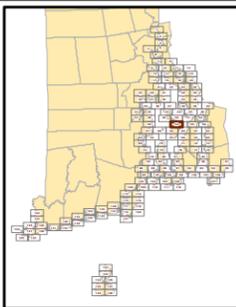
51

59

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CRMS, URI EDC, RIDEM

Map
54



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



NOAA grant award #:
NA120AR4310108

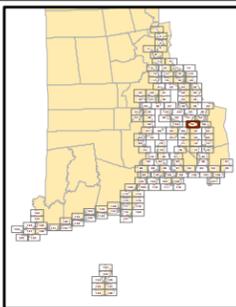


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RTEIS, URI EDC, RIDEM

Map 55



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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



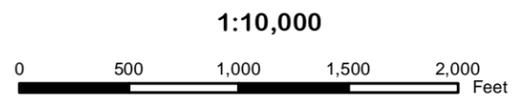
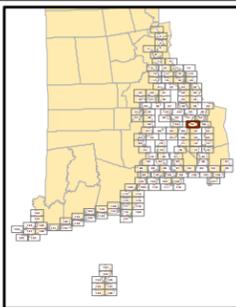
NOAA grant award #: NA12GAR4310108



Map produced by Kevin Ruddock. 4/2/2014



Map
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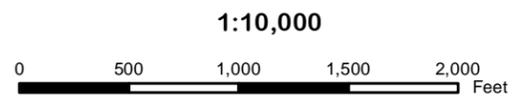
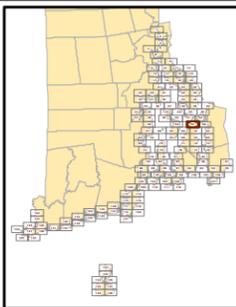
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map
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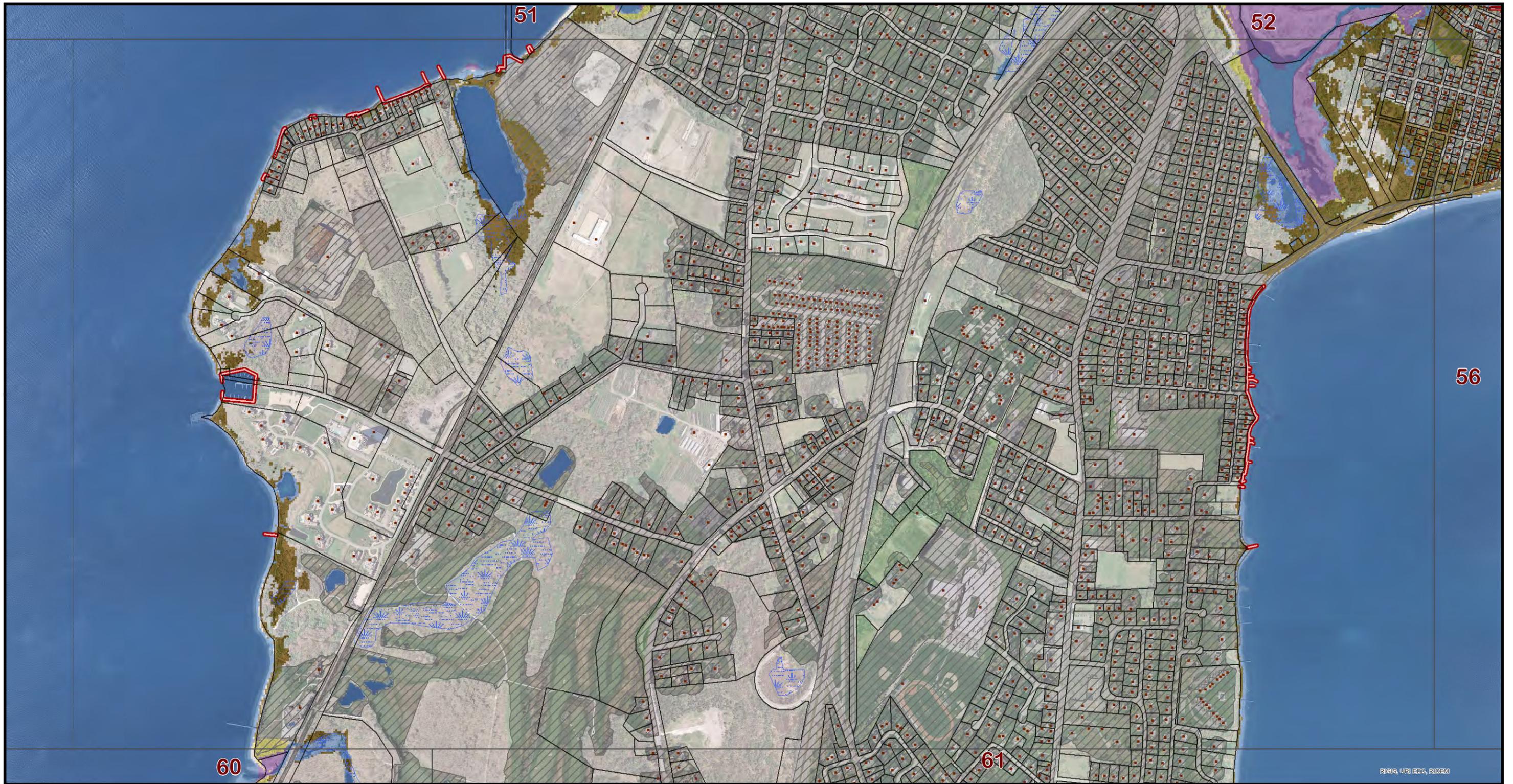


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-  Protected Open Space
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-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

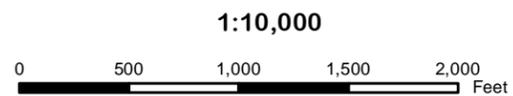
Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





REIS, URI EDC, RIDEM

Map
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-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



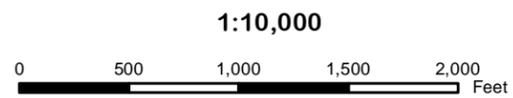
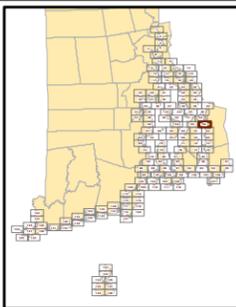
NOAA grant award #: NA120AR4310108



Map produced by Kevin Ruddock. 4/1/2014



Map 56



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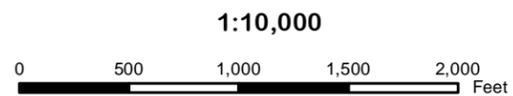
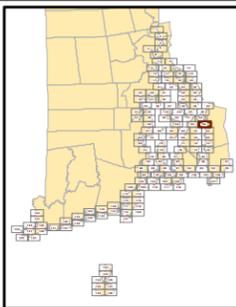
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
56



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-  Potential Marsh Zone
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-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
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-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

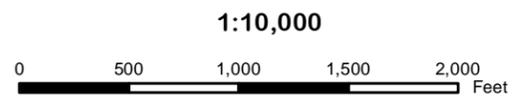
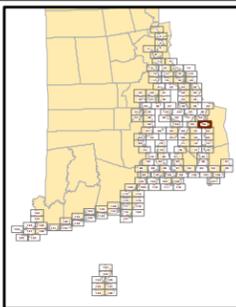
Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



NOAA grant award #:
NA120AR4310108



Map
56

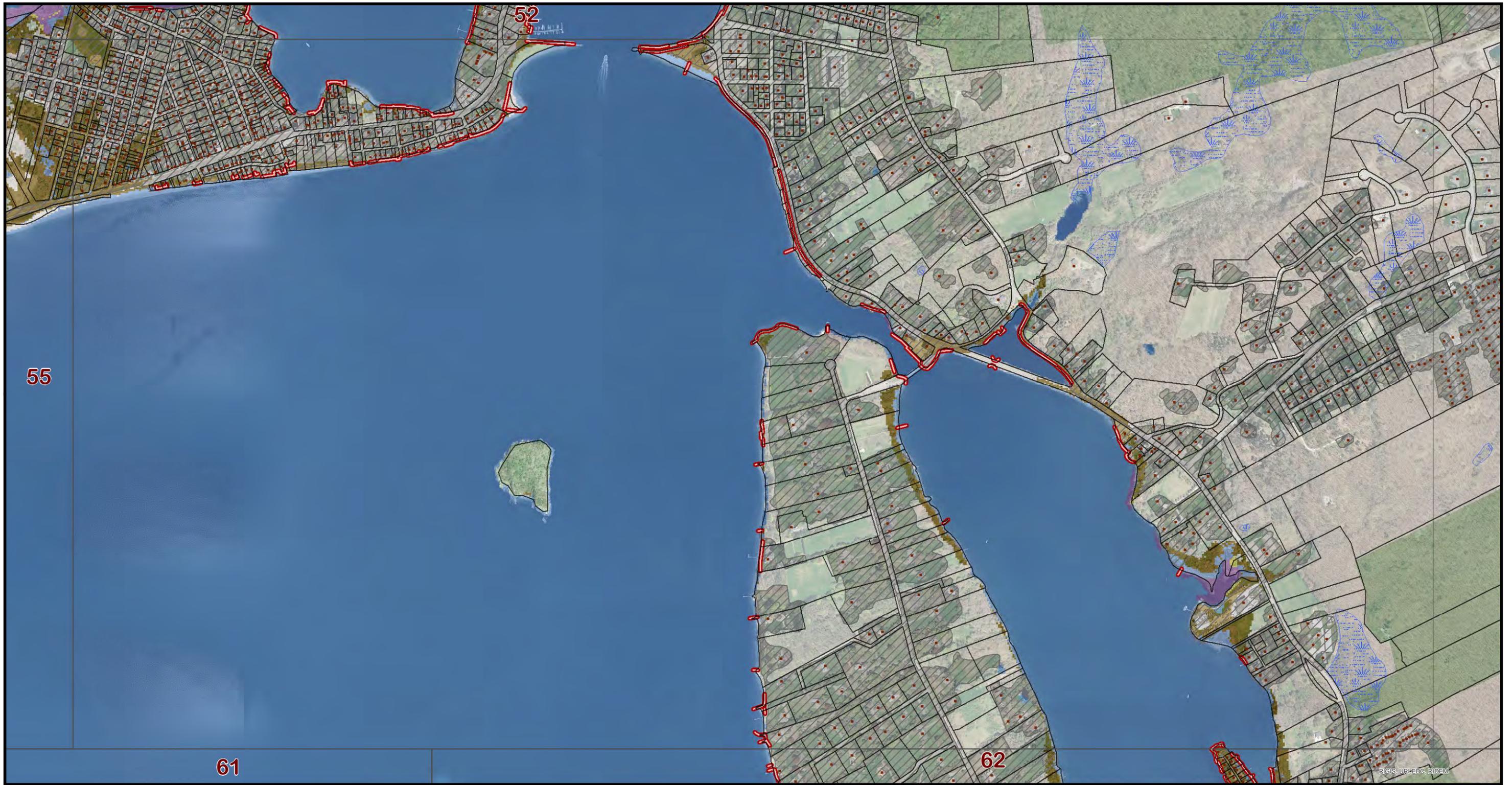


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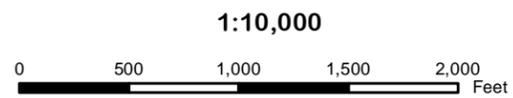
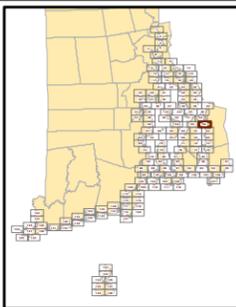
- | | | | |
|--|---------------------------|--|-----------------------|
| | Potential Marsh Zone | | Hardened Shores |
| | Persistent Marsh Zone | | Buildings |
| | Potential Marsh Loss | | Parcel Boundaries |
| | Open Water and Tidal Flat | | Developed Land |
| | Current Fresh Wetlands | | CRMC Coastal Barriers |
| | Protected Open Space | | |

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
56

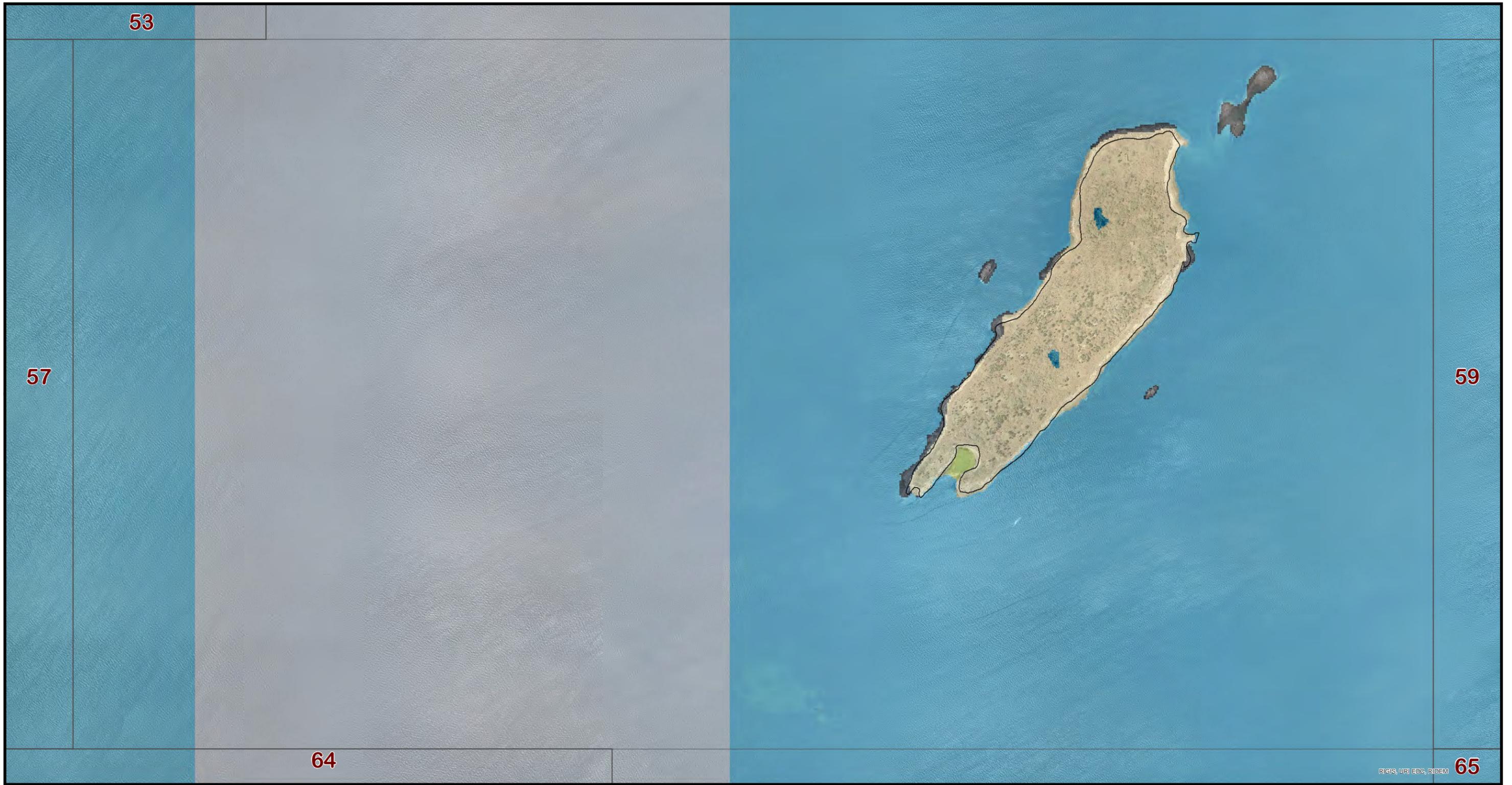


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- | | |
|---------------------------|-----------------------|
| Potential Marsh Zone | Hardened Shores |
| Persistent Marsh Zone | Buildings |
| Potential Marsh Loss | Parcel Boundaries |
| Open Water and Tidal Flat | Developed Land |
| Current Fresh Wetlands | CRMC Coastal Barriers |
| Protected Open Space | |

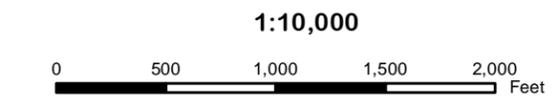
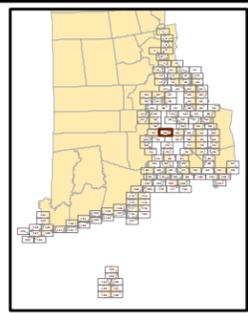
Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





RCIS, URI EDG, RDEM 65

Map 58



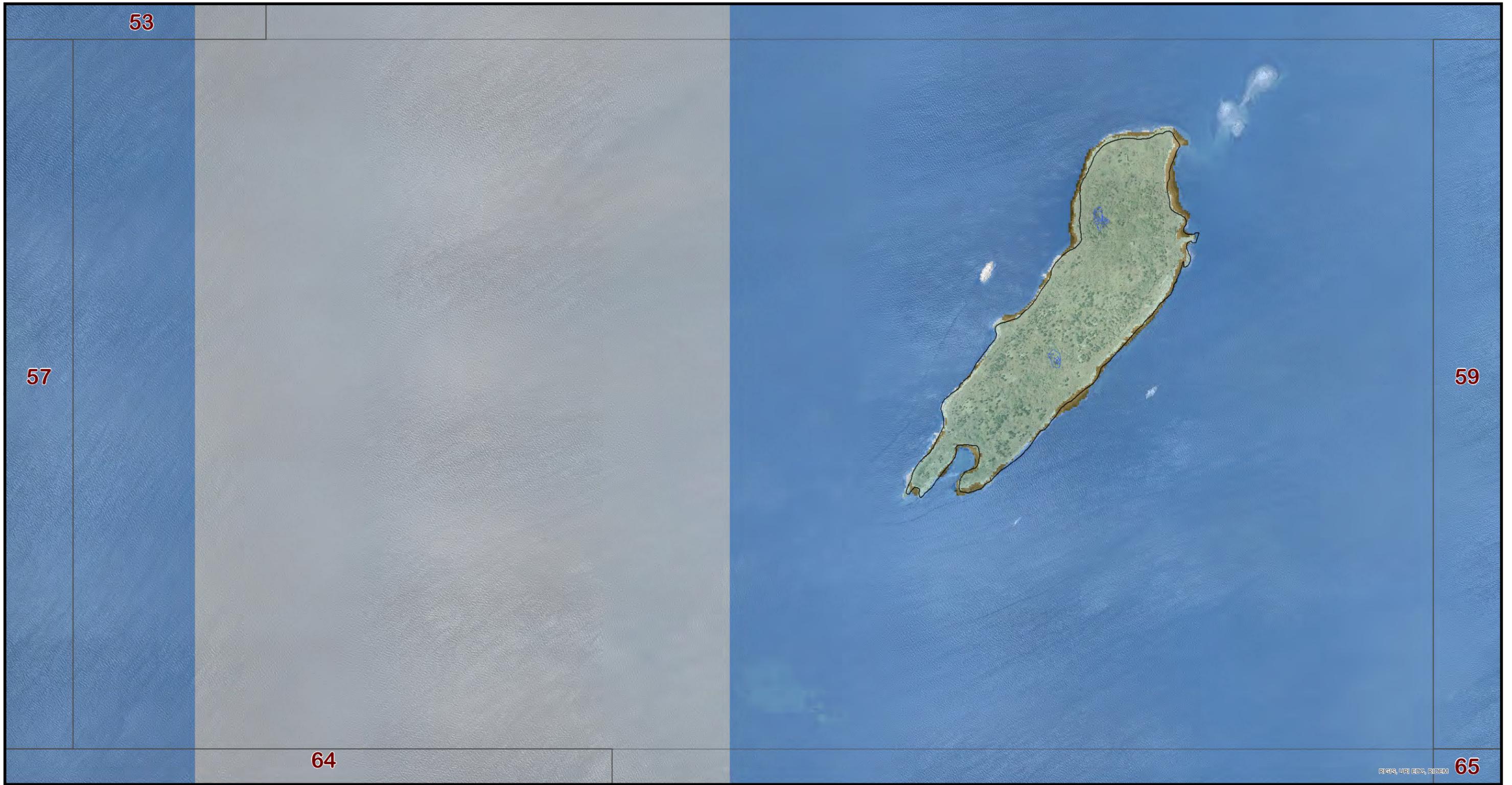
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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
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| Tidal Creek | |

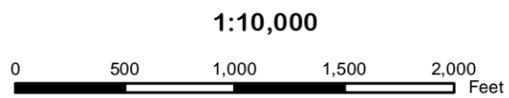
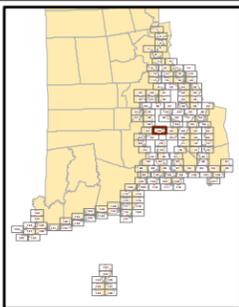
Tidal Marsh Vulnerability Analysis: Current Condition



Map produced by Kevin Ruddock. 4/2/2014



Map
58



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-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

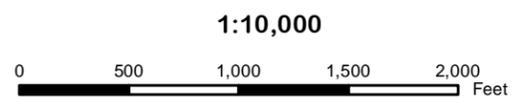
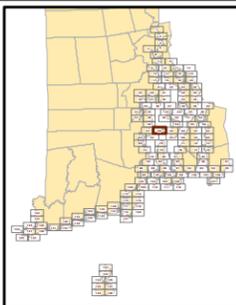


NOAA grant award #:
NA120AR4310108

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Map
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-  Hardened Shores
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-  Developed Land
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



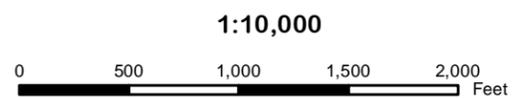
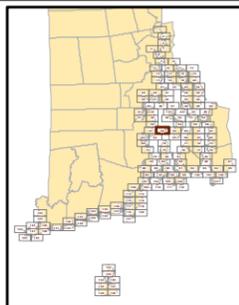
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REIS, URI EDG, RDEM 65

Map
58



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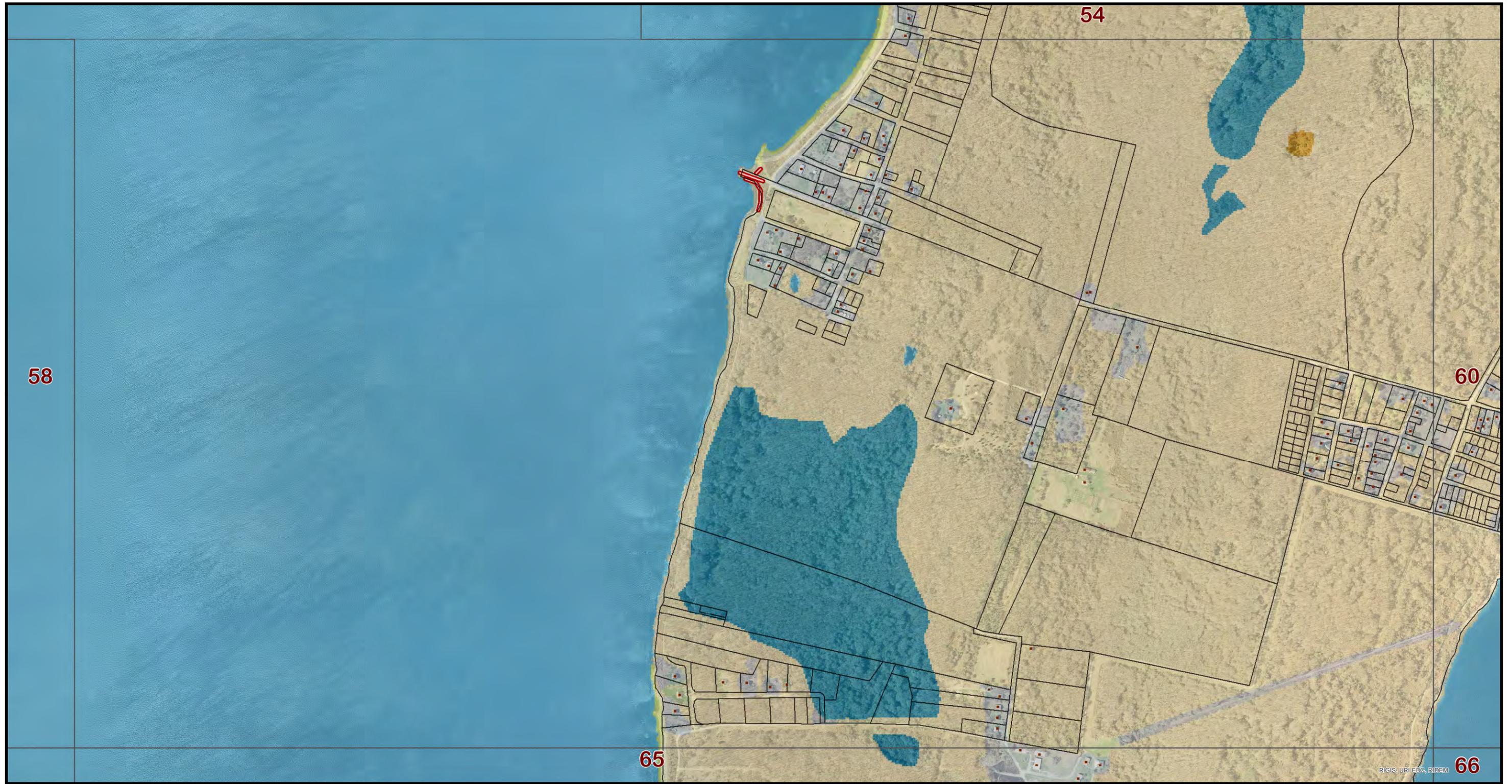
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
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-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



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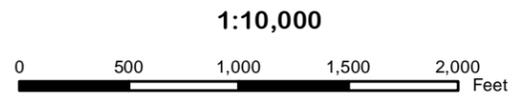
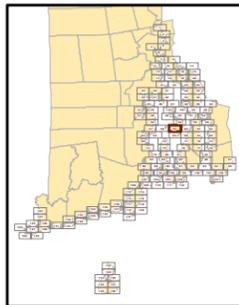
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RIGIS, URI EDC, RDEM

Map
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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



NOAA grant award #: NA12GAR4310108



Map produced by Kevin Ruddock. 4/2/2014



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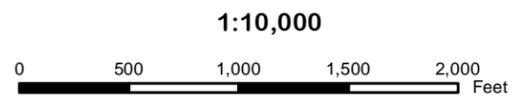
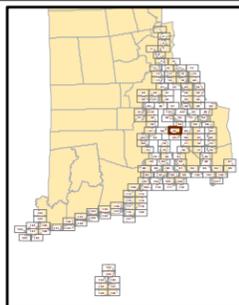
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RCIS, URI EDC, RIDEM

Map
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-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



Map produced by Kevin Ruddock. 4/1/2014



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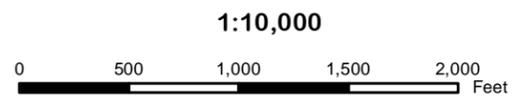
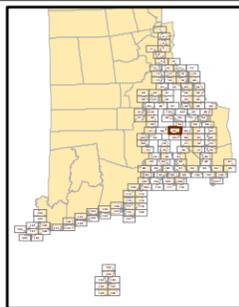
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RGIS, URI EDC, RDEM

Map
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-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





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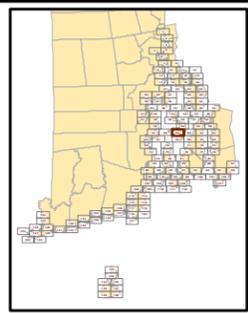
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RGIS, URI EDG, RDEM

Map
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- Hardened Shores
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- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

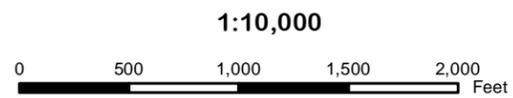
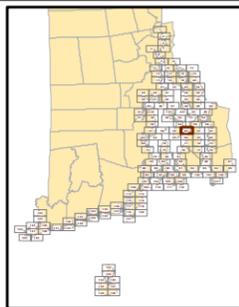


NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
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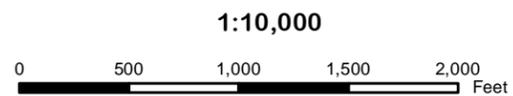
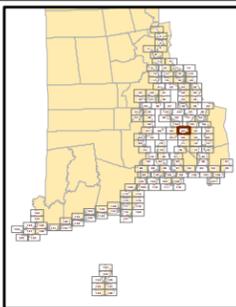
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
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| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
60



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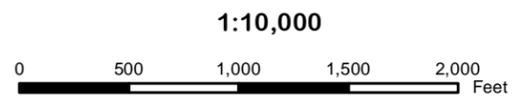
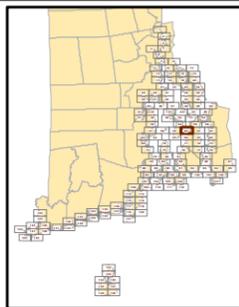
-  Potential Marsh Zone
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-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map
60



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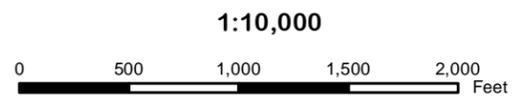
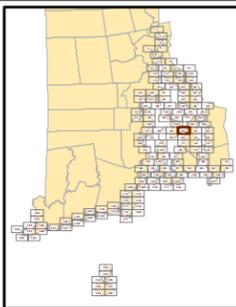
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
60



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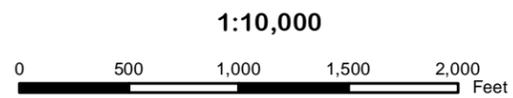
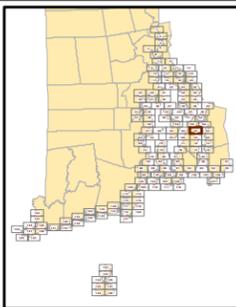
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





Map
61

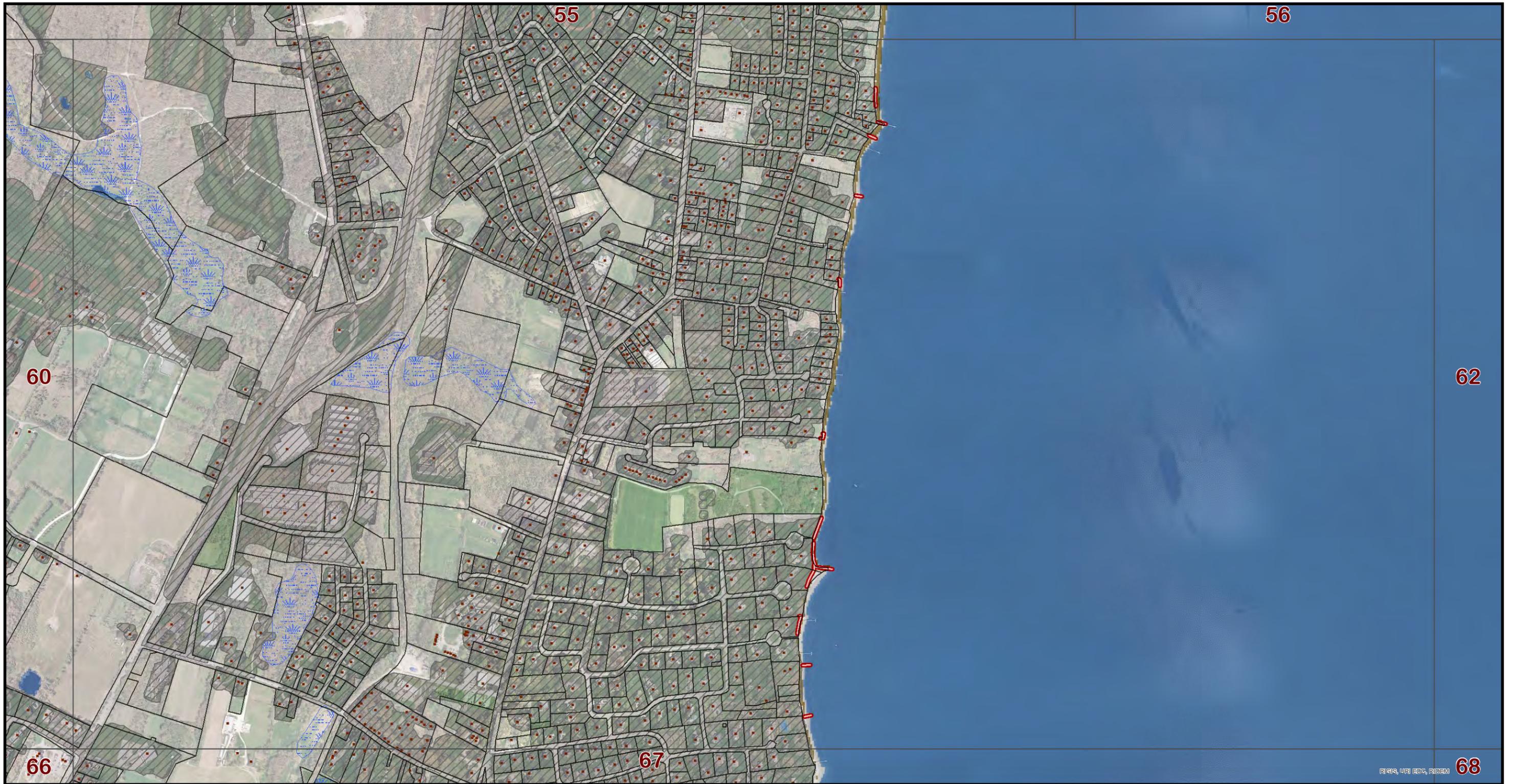


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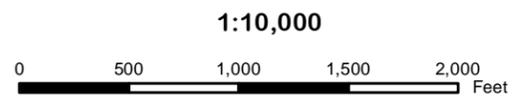
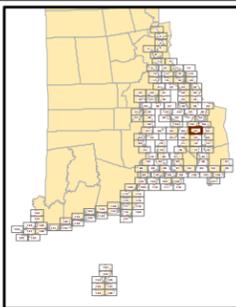
- | | |
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Tidal Marsh Vulnerability Analysis: Current Condition





Map
61



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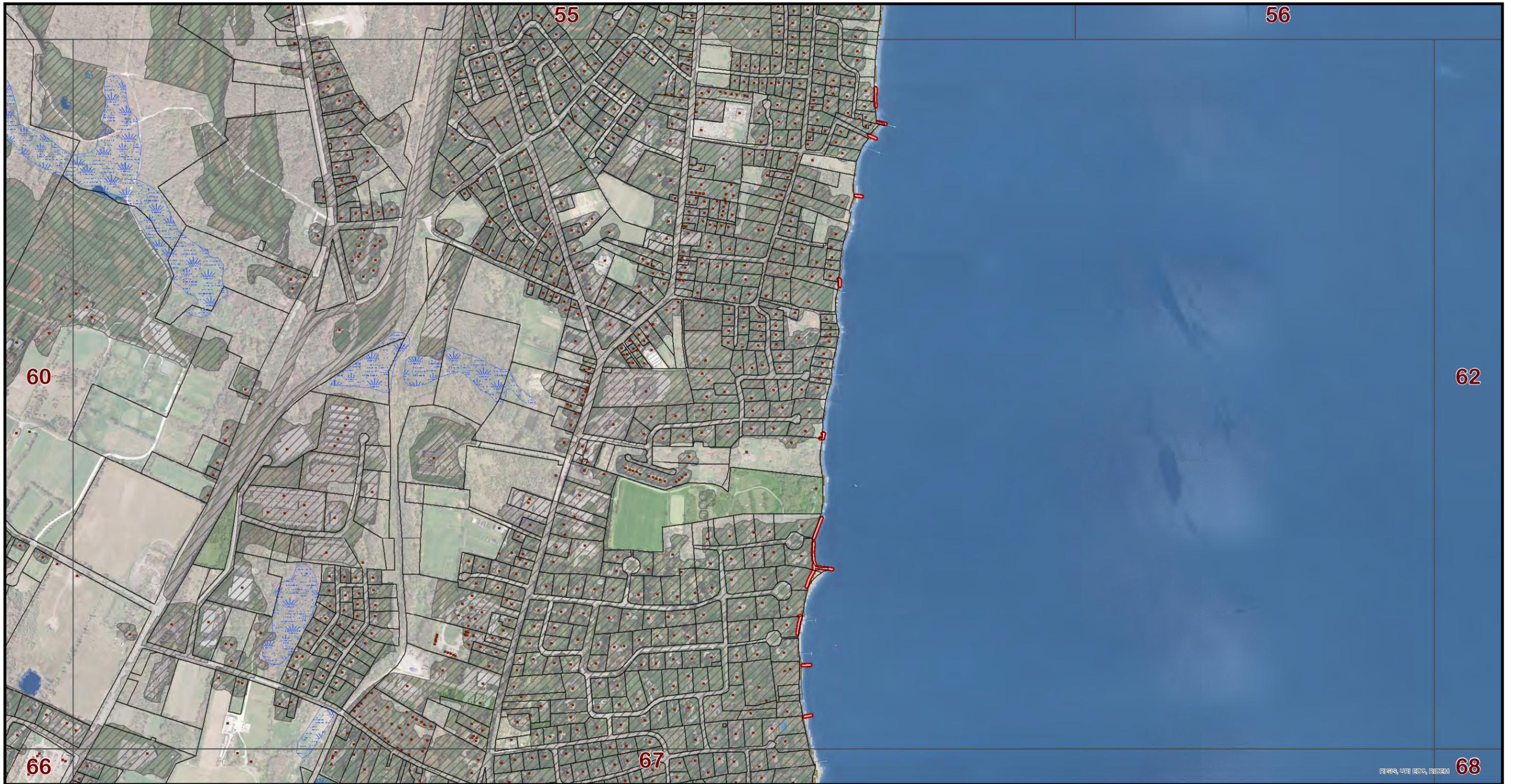
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-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

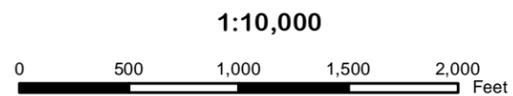
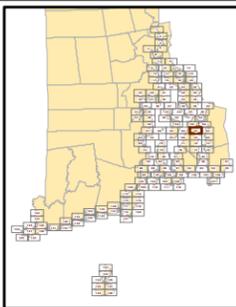


NOAA grant award #:
NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
61



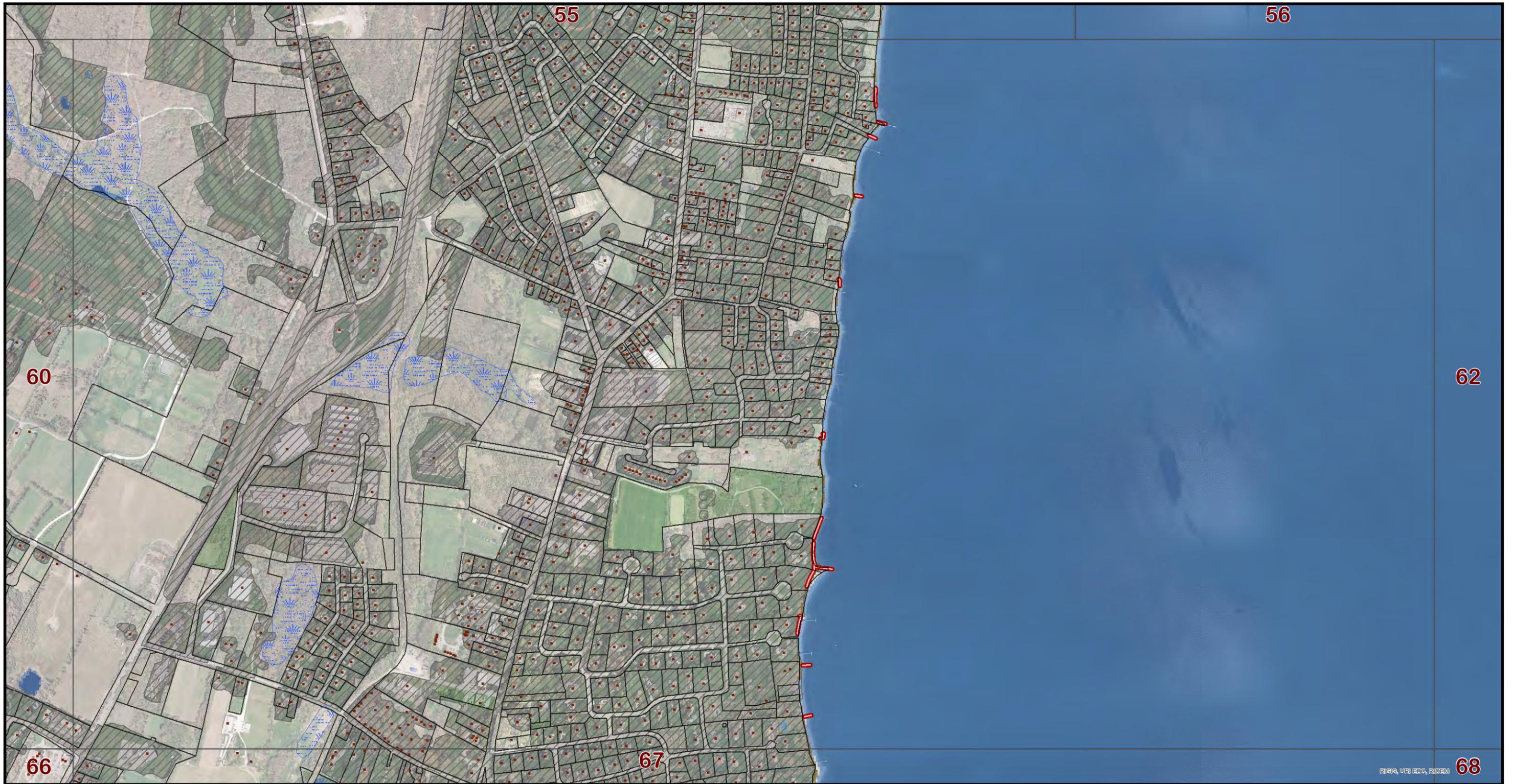
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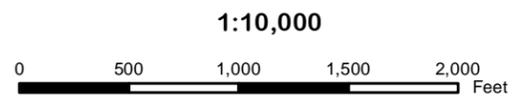
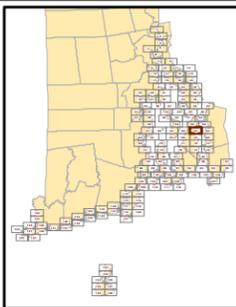
Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108



Map
61



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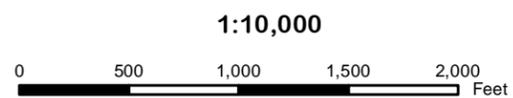
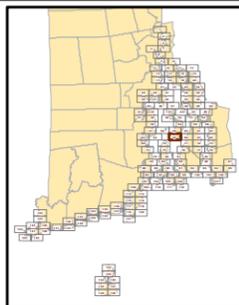
Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



NOAA grant award #:
NA120AR4310108



Map 65

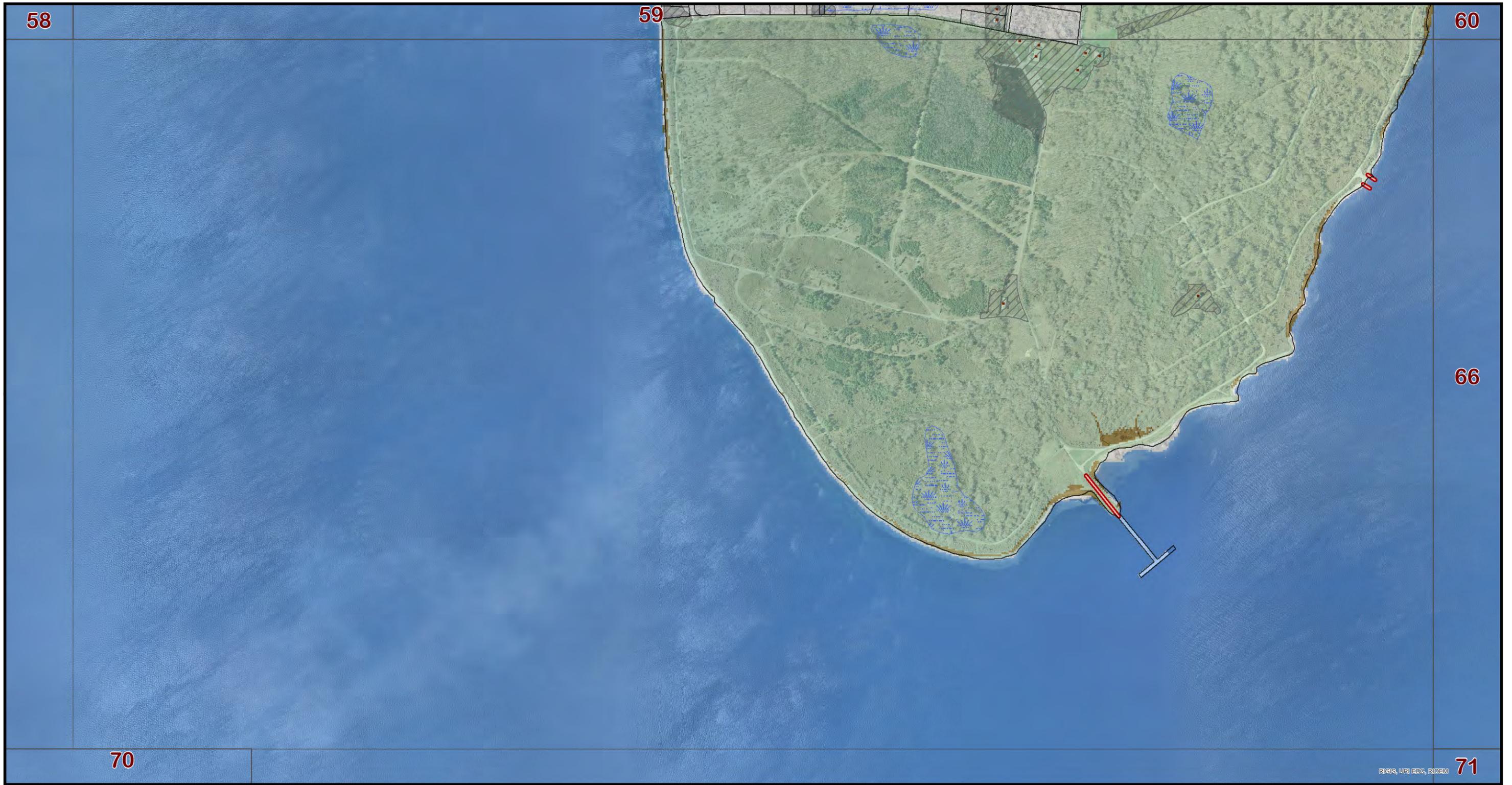


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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





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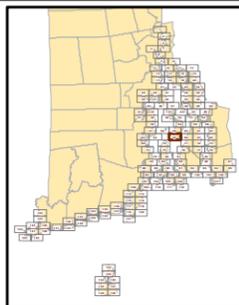
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REIS, URI EDC, RDEM

Map
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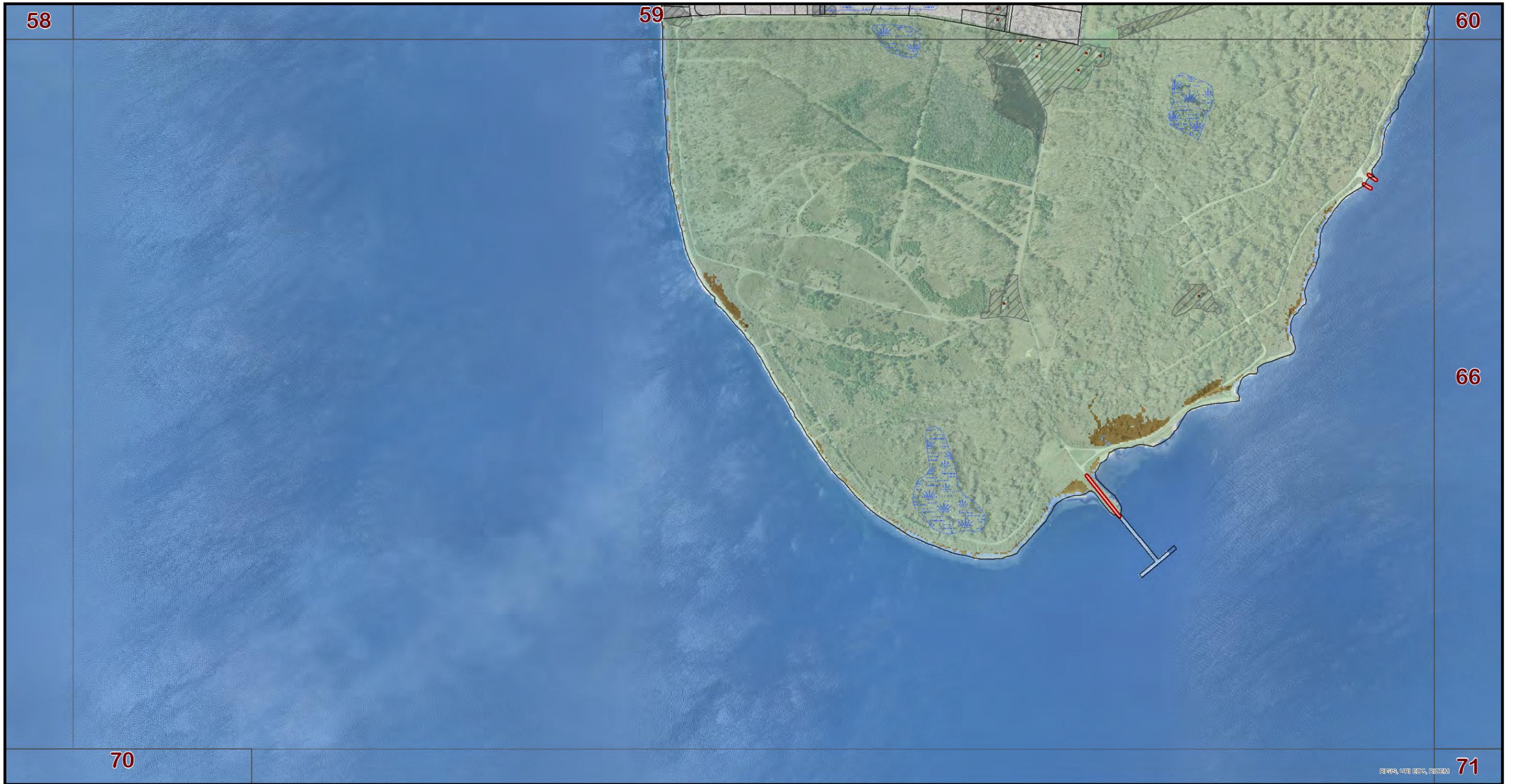
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

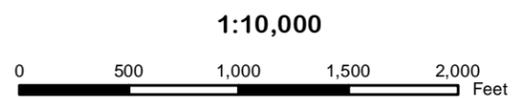
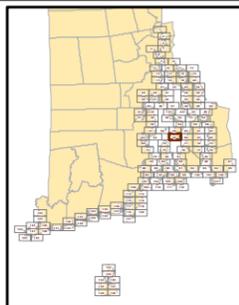


NOAA grant award #: NA120AR4310108

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Map
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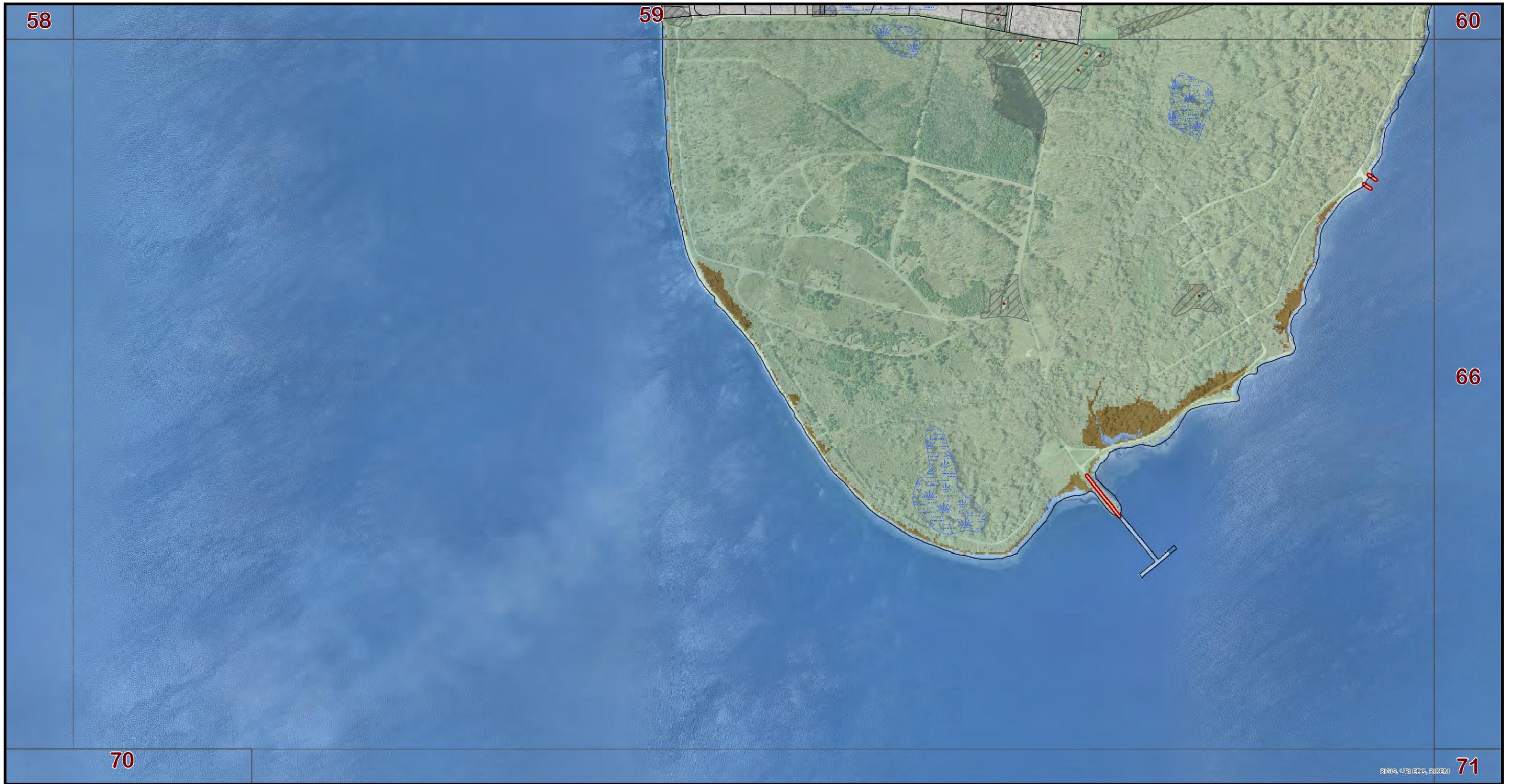
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model

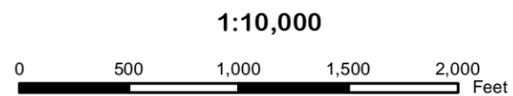
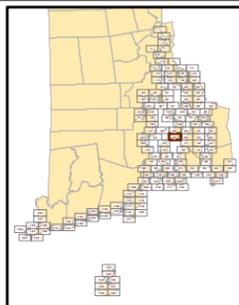


NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
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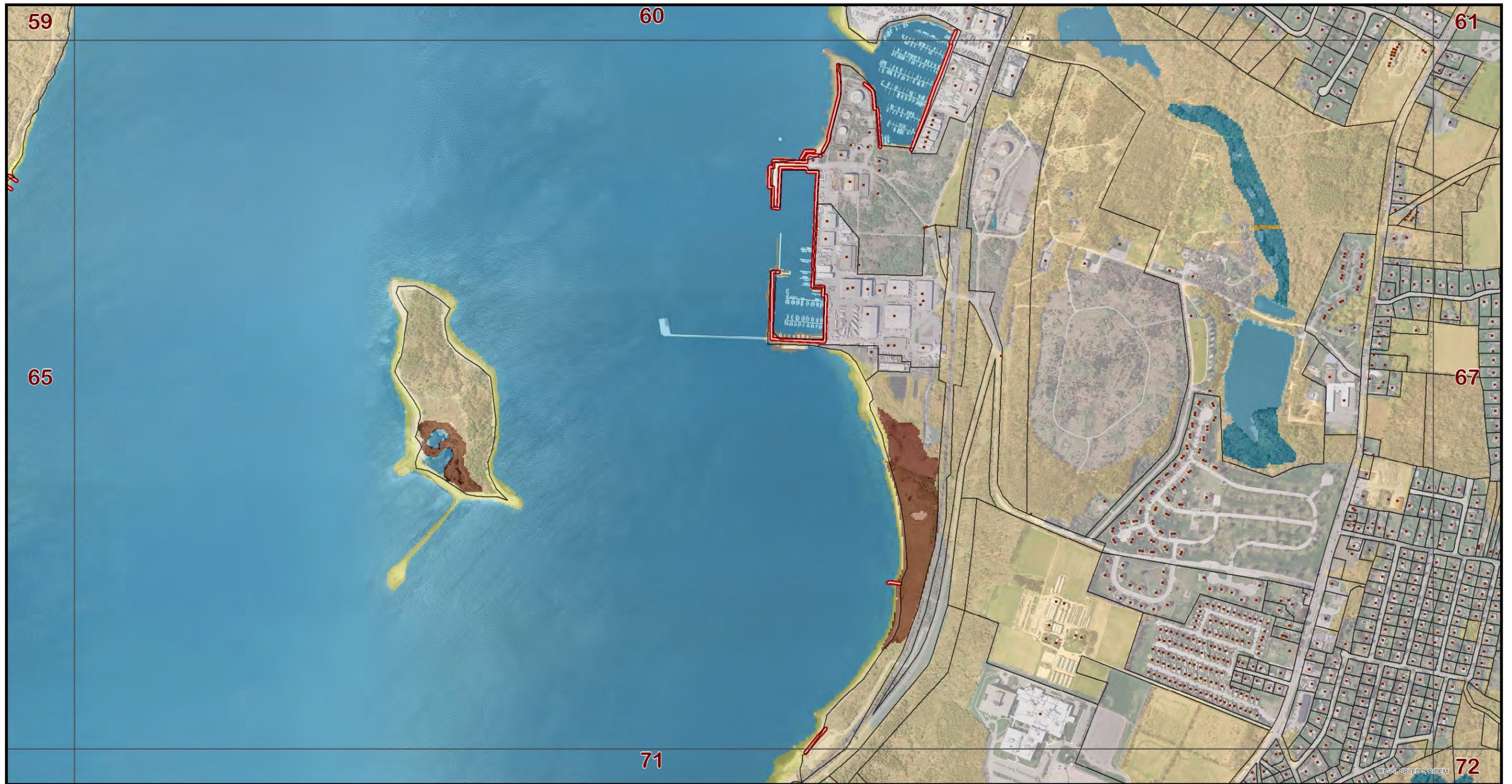


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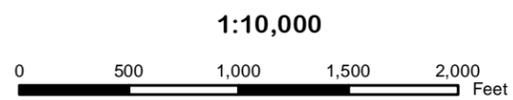
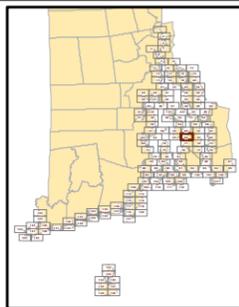
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





Map
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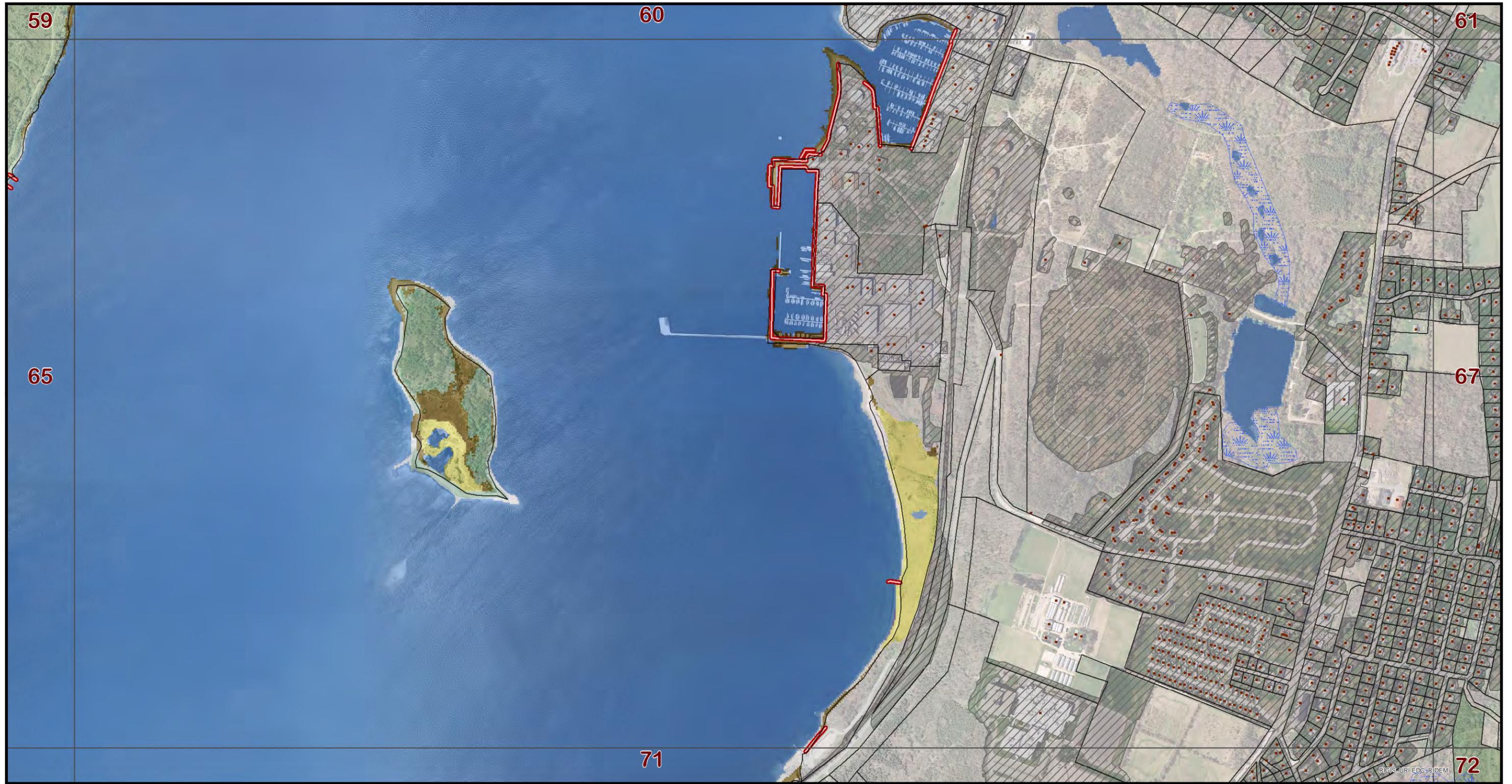


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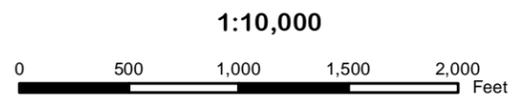
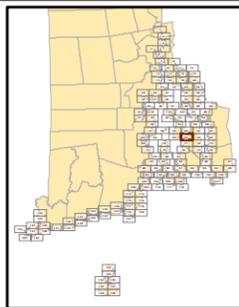
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
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| Tidal Flat | Hardened Shores |
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| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
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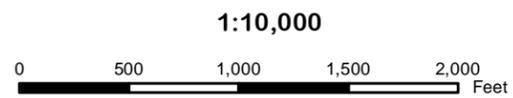
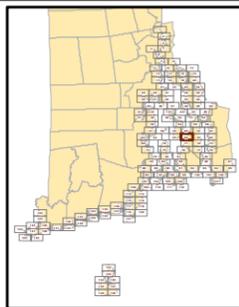
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map
66



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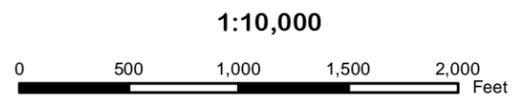
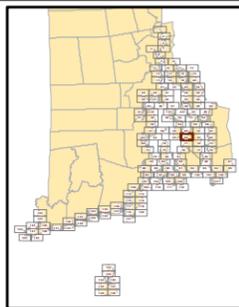
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
66



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-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





Map 67

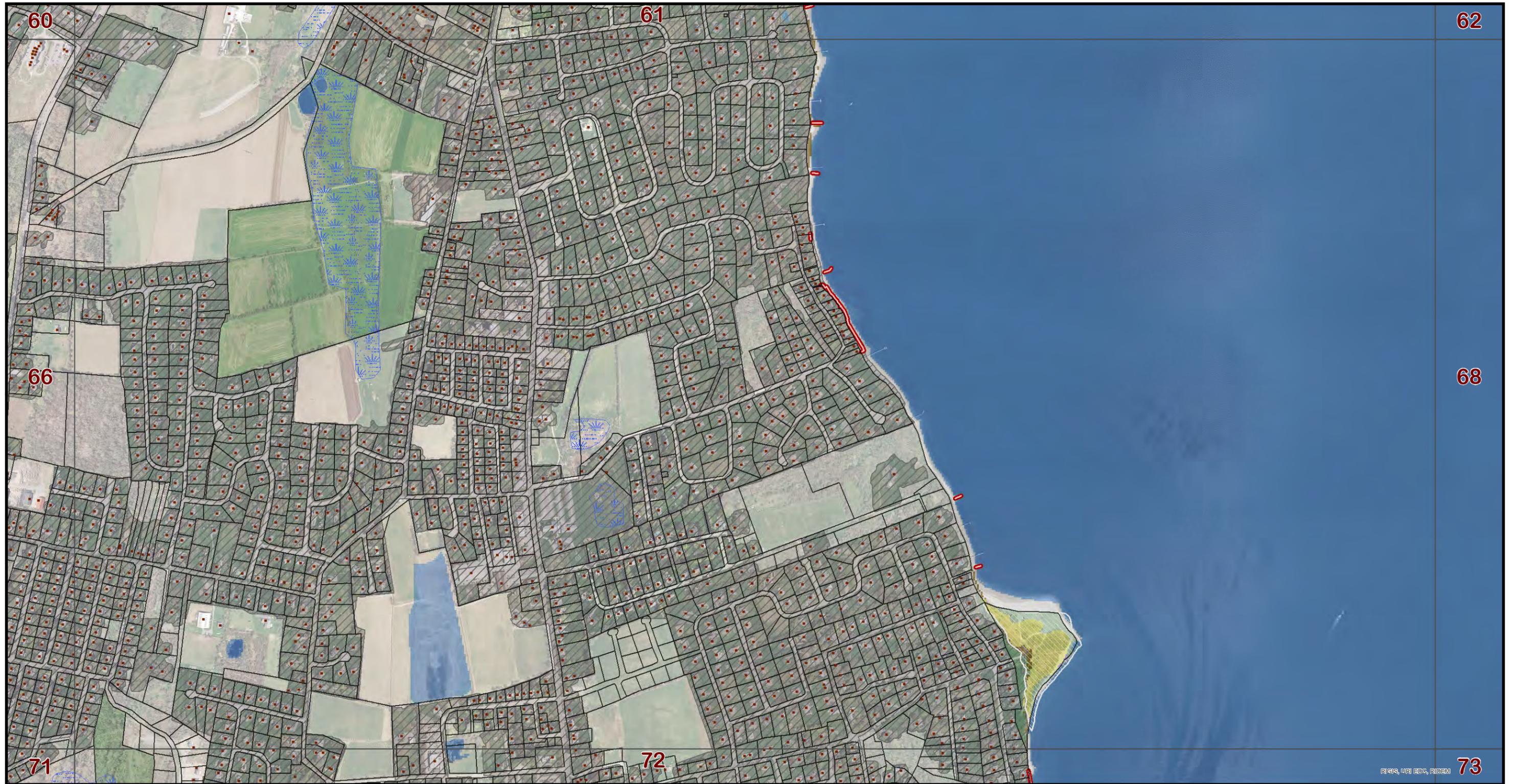


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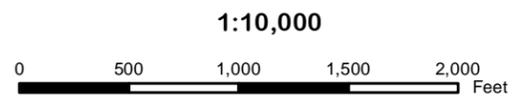
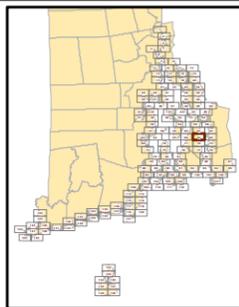
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
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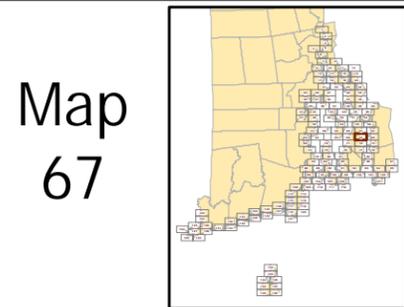
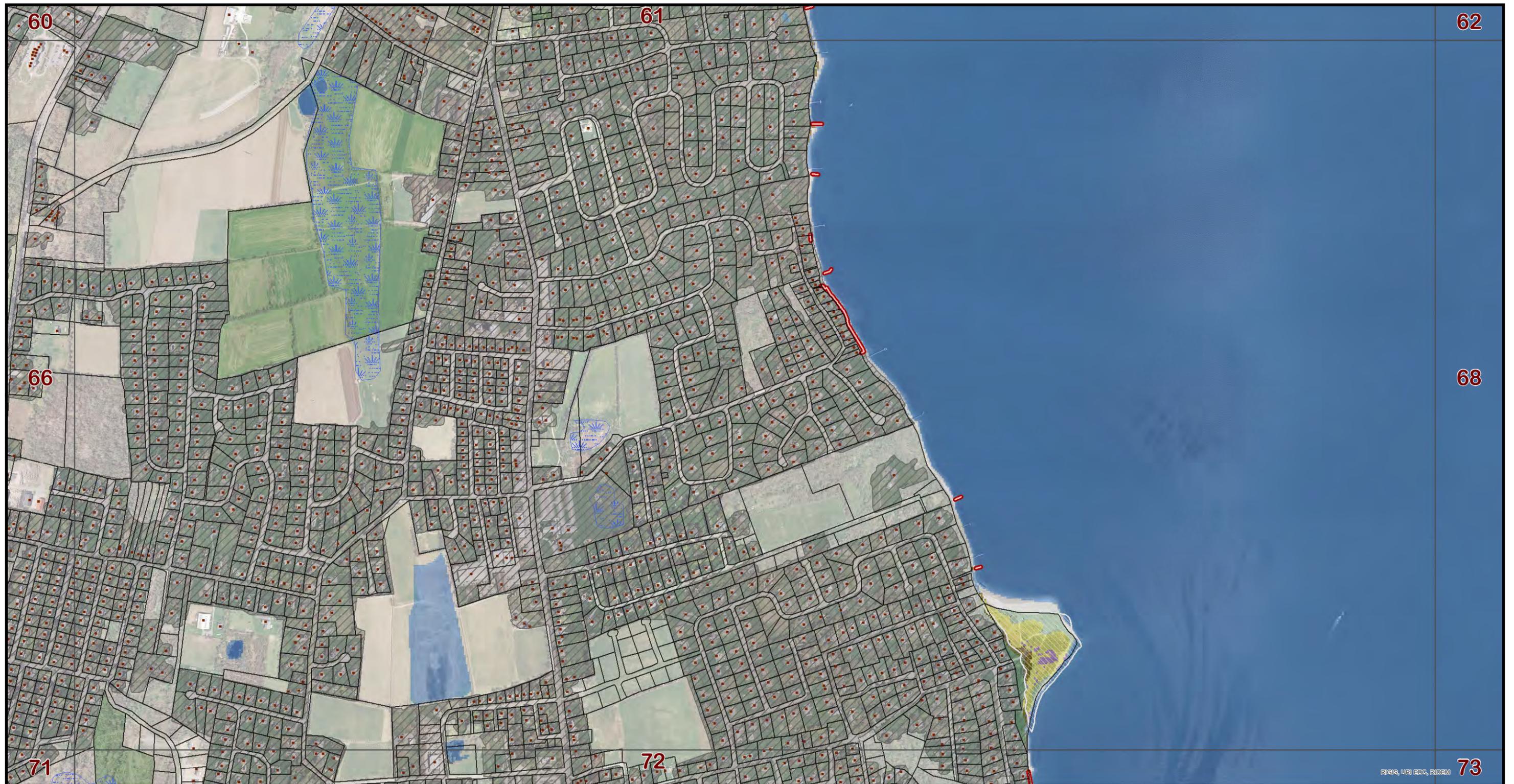
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



NOAA grant award #:
NA120AR4310108

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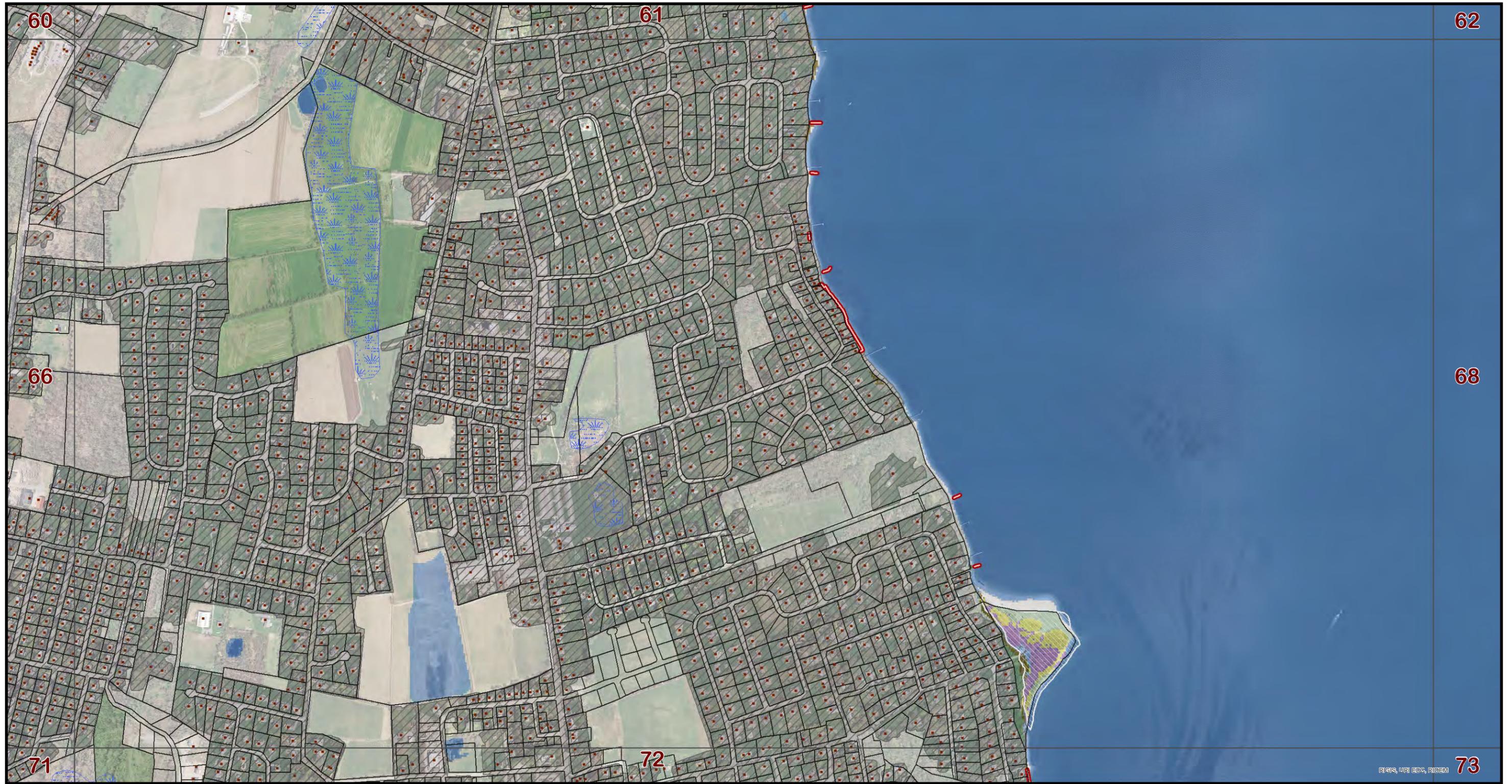
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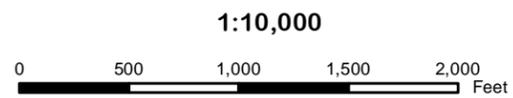
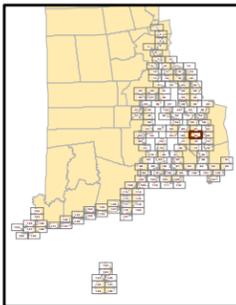
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model



Map
67



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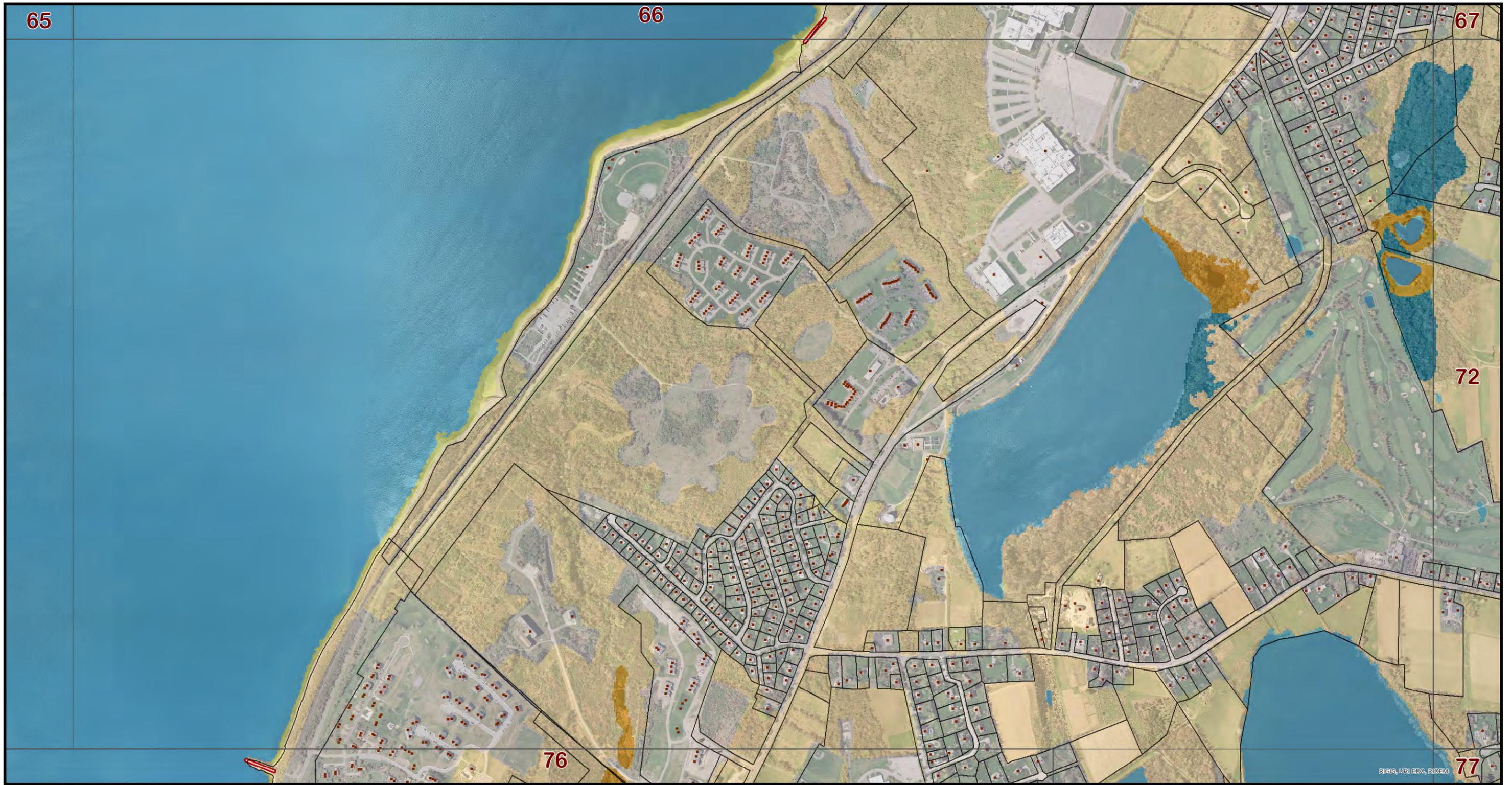
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-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

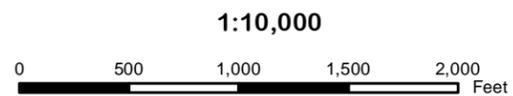
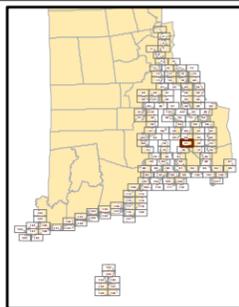


NOAA grant award #:
NA120AR4310108





Map
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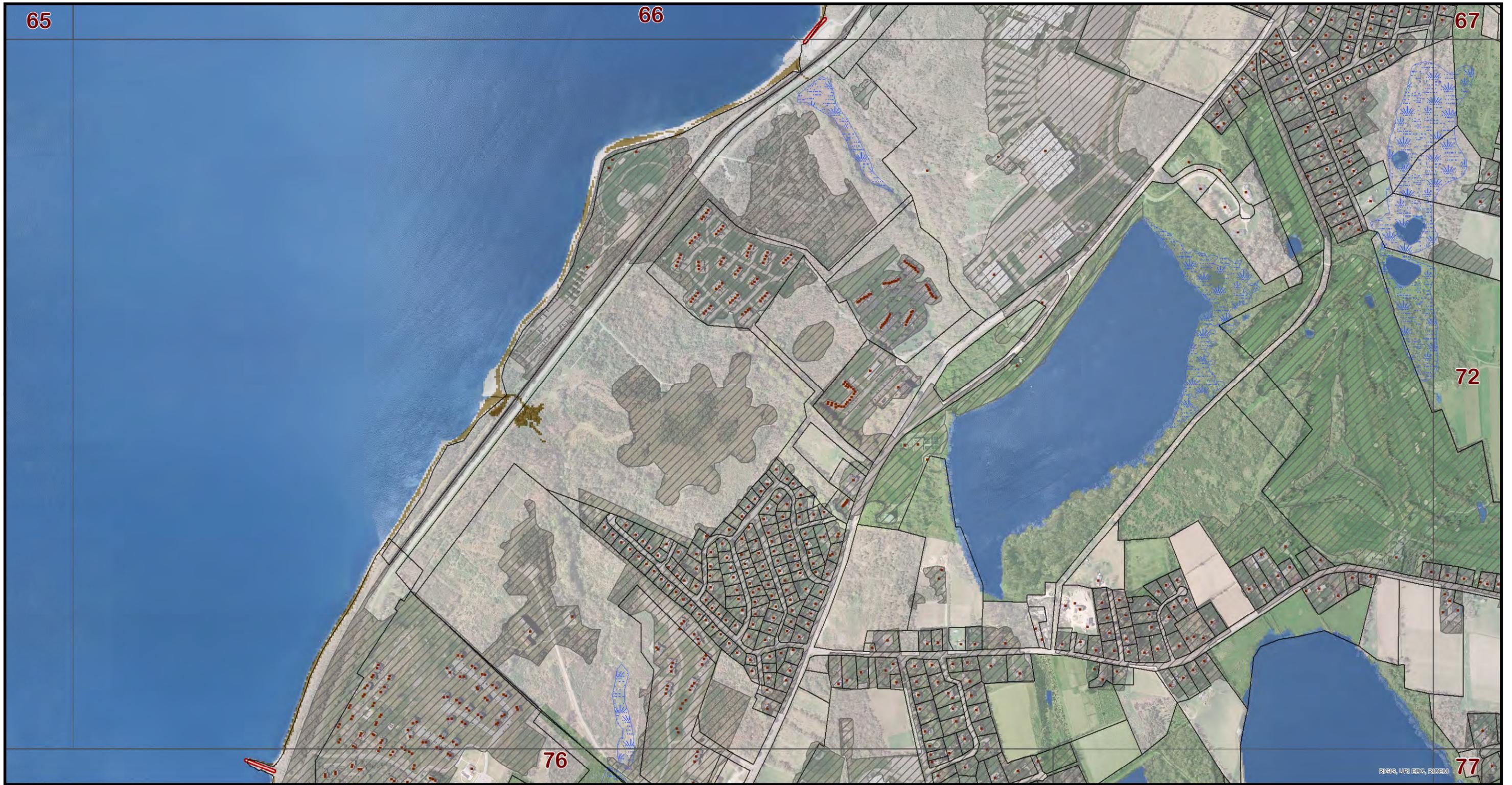
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
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| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



NOAA grant award #: NA12GAR4310108





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REIS, URI EDC, RIDEM

Map
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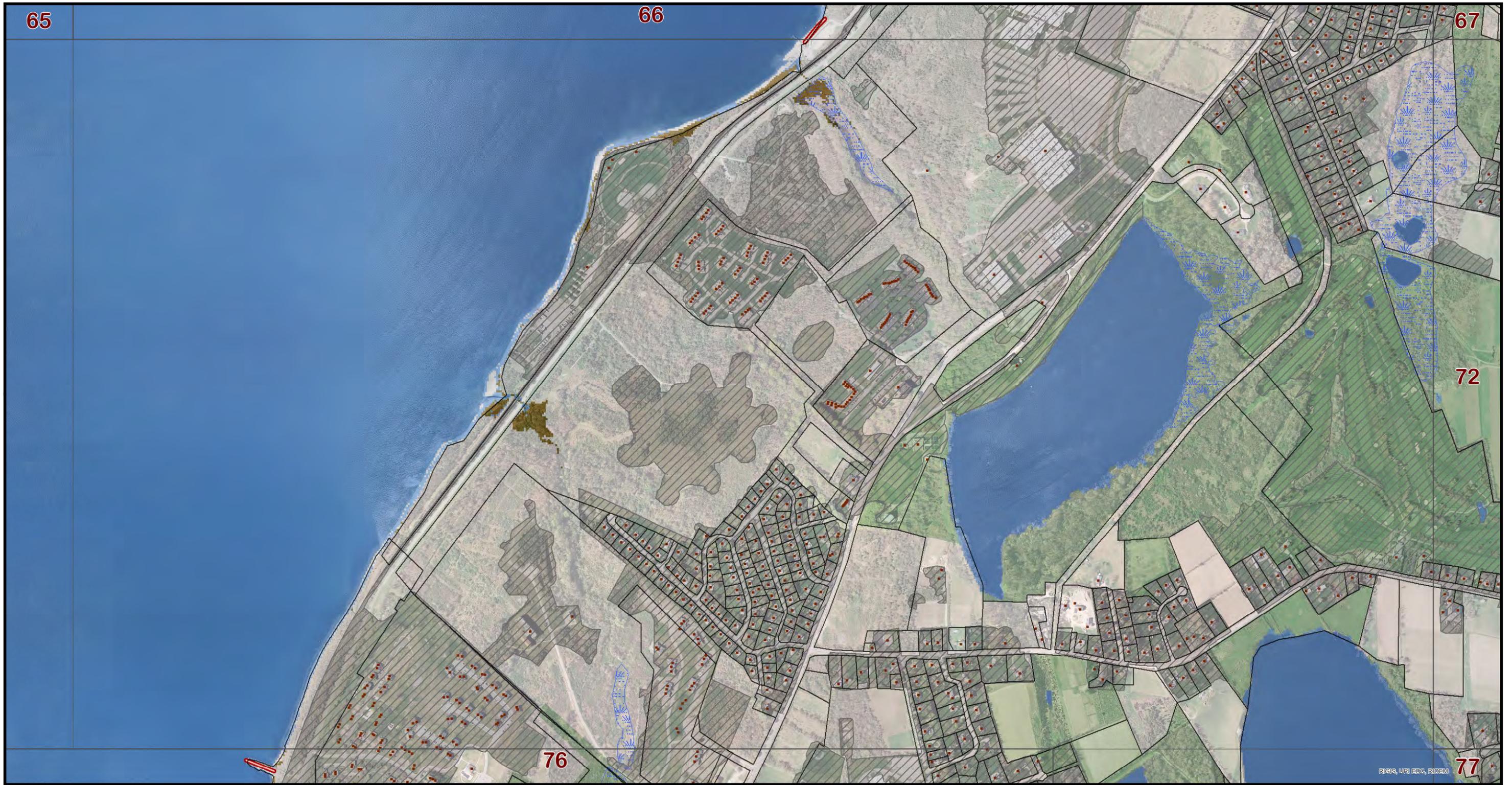
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-  Buildings
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-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



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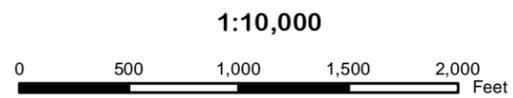
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





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REIS, URI EDC, RIDEM

Map
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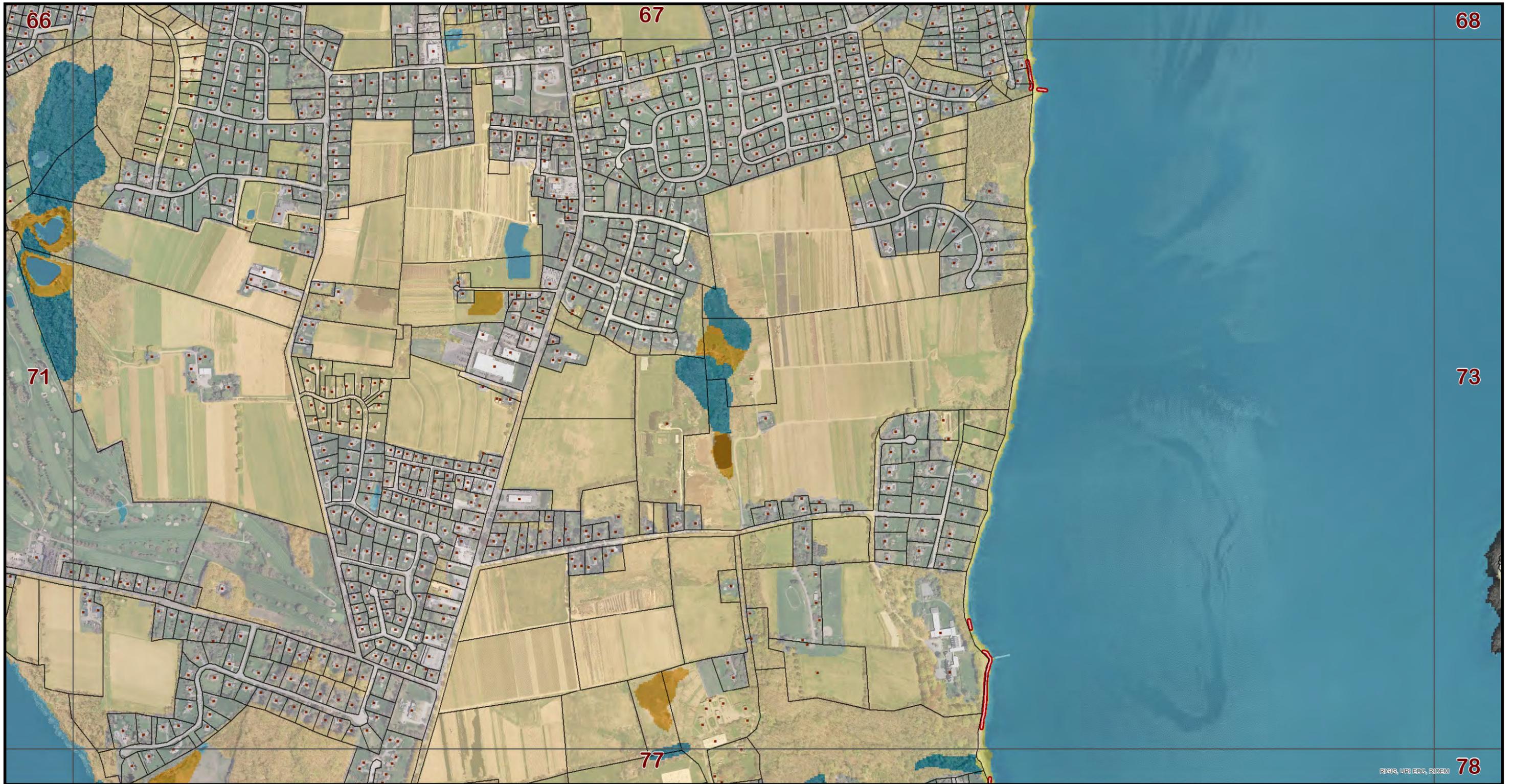
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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

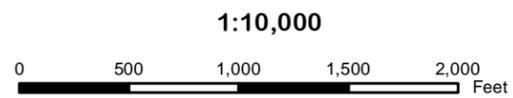
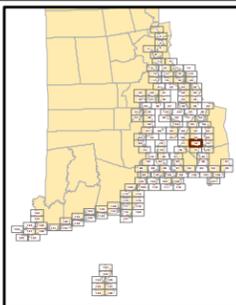


NOAA grant award #: NA120AR4310108

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Map
72

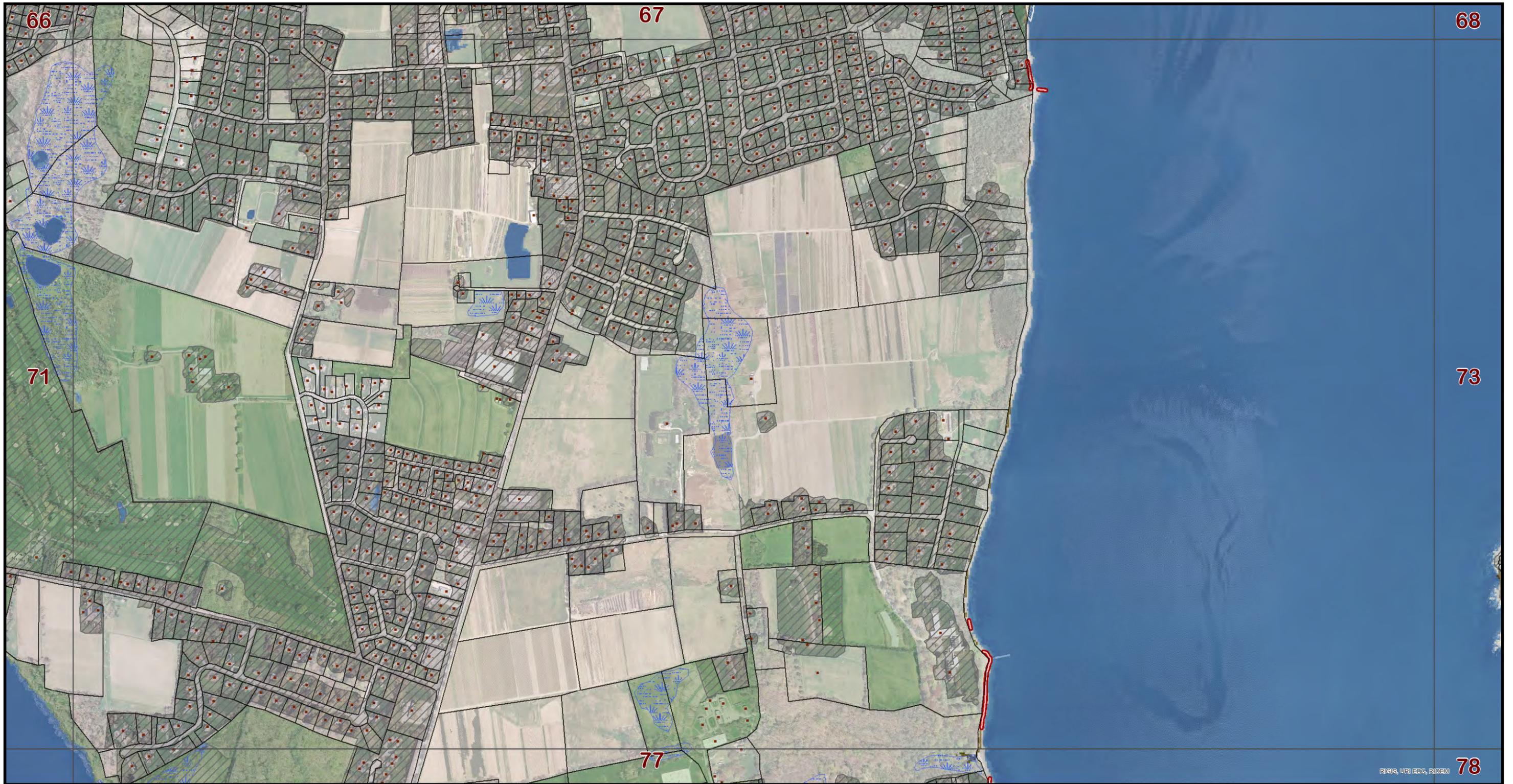


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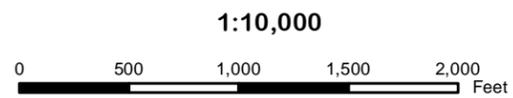
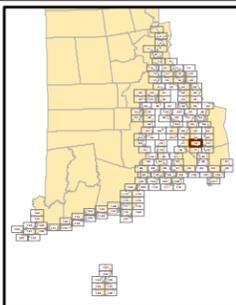
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
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| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
72

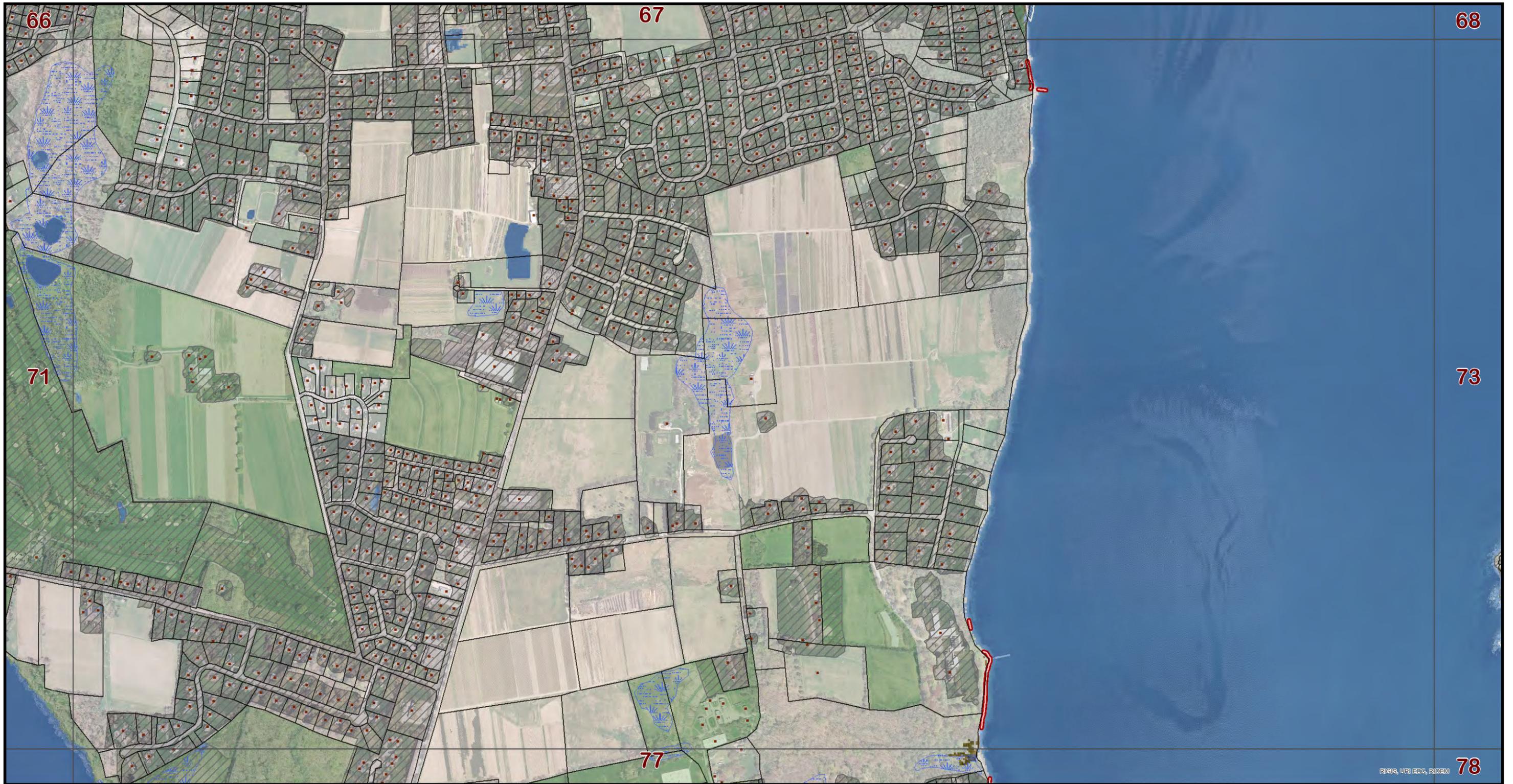


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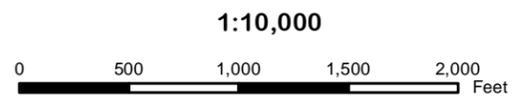
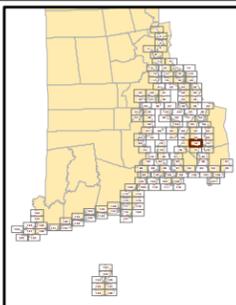
-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map
72



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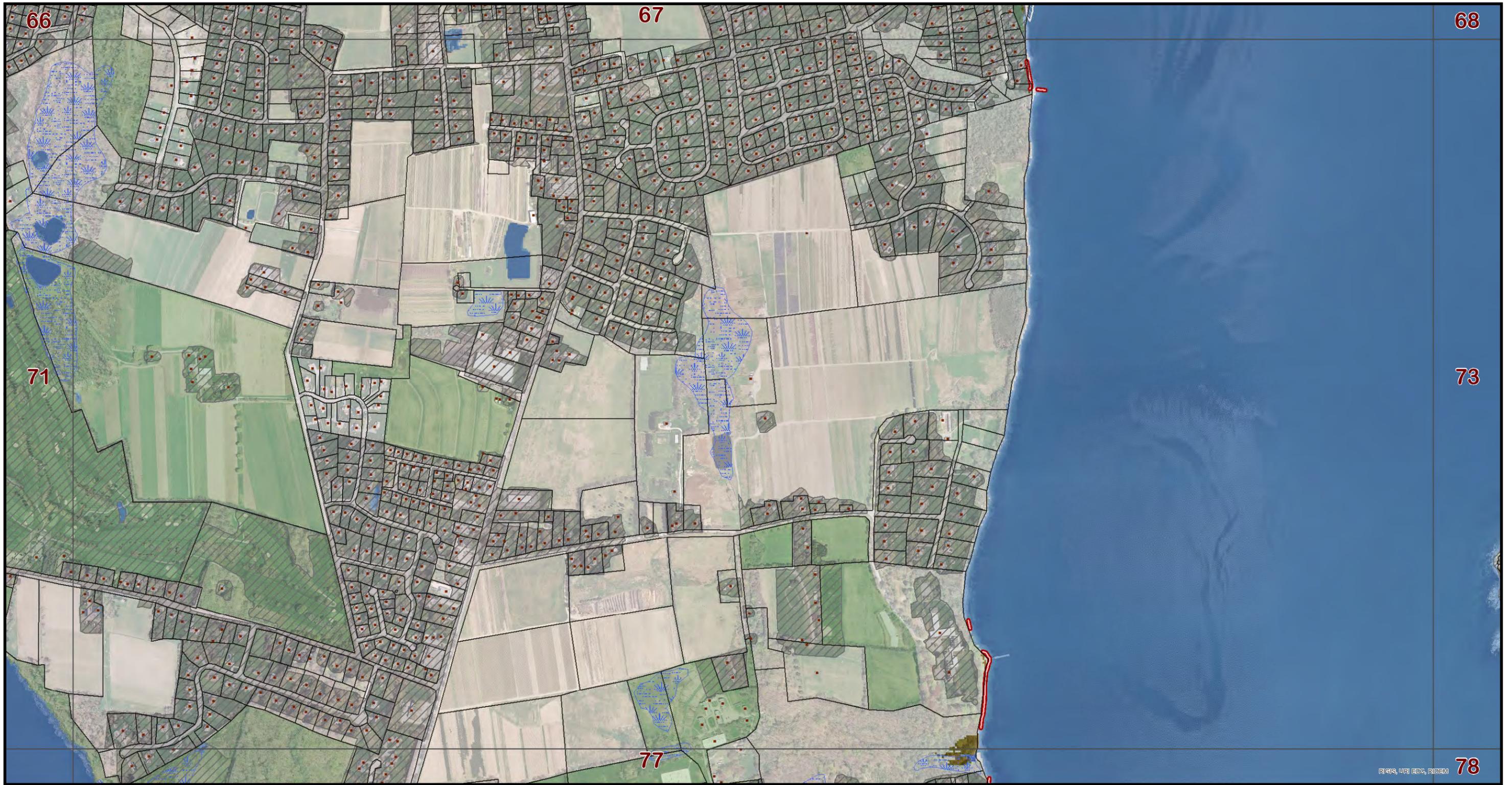
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-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
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-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model

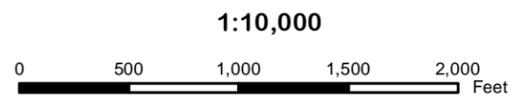
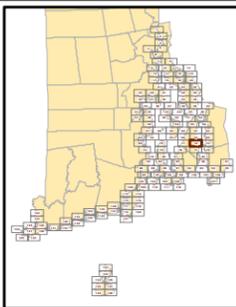


NOAA grant award #:
NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014



Map
72



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-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model



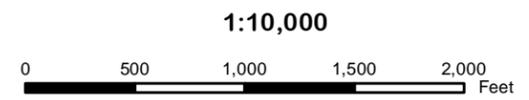
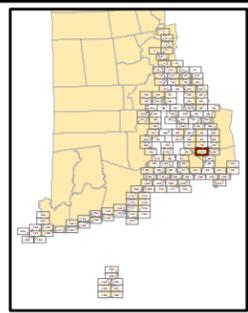
NOAA grant award #:
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RTEIS, URI EDC, RIDEM

Map
77



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- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition



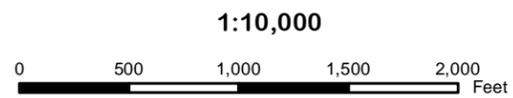
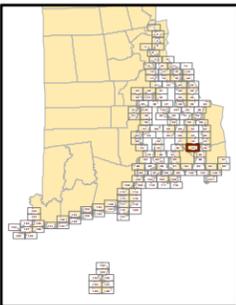
NOAA grant award #: NA12GAR4310108

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RTS, URI EDC, RIDEM

Map 77



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-  Potential Marsh Zone
-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model



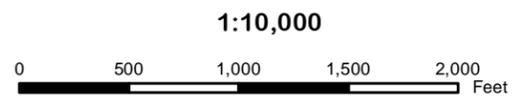
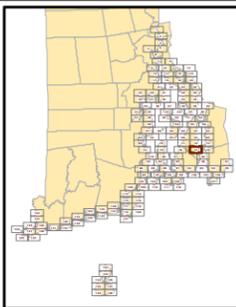
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RTS, URI EDC, RIDEM

Map
77



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- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





71

72

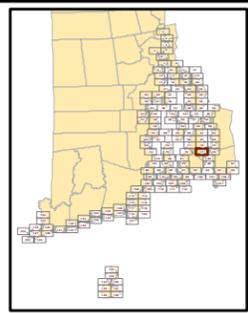
73

78

82

REIS, URI EDC, RIDEM

Map
77



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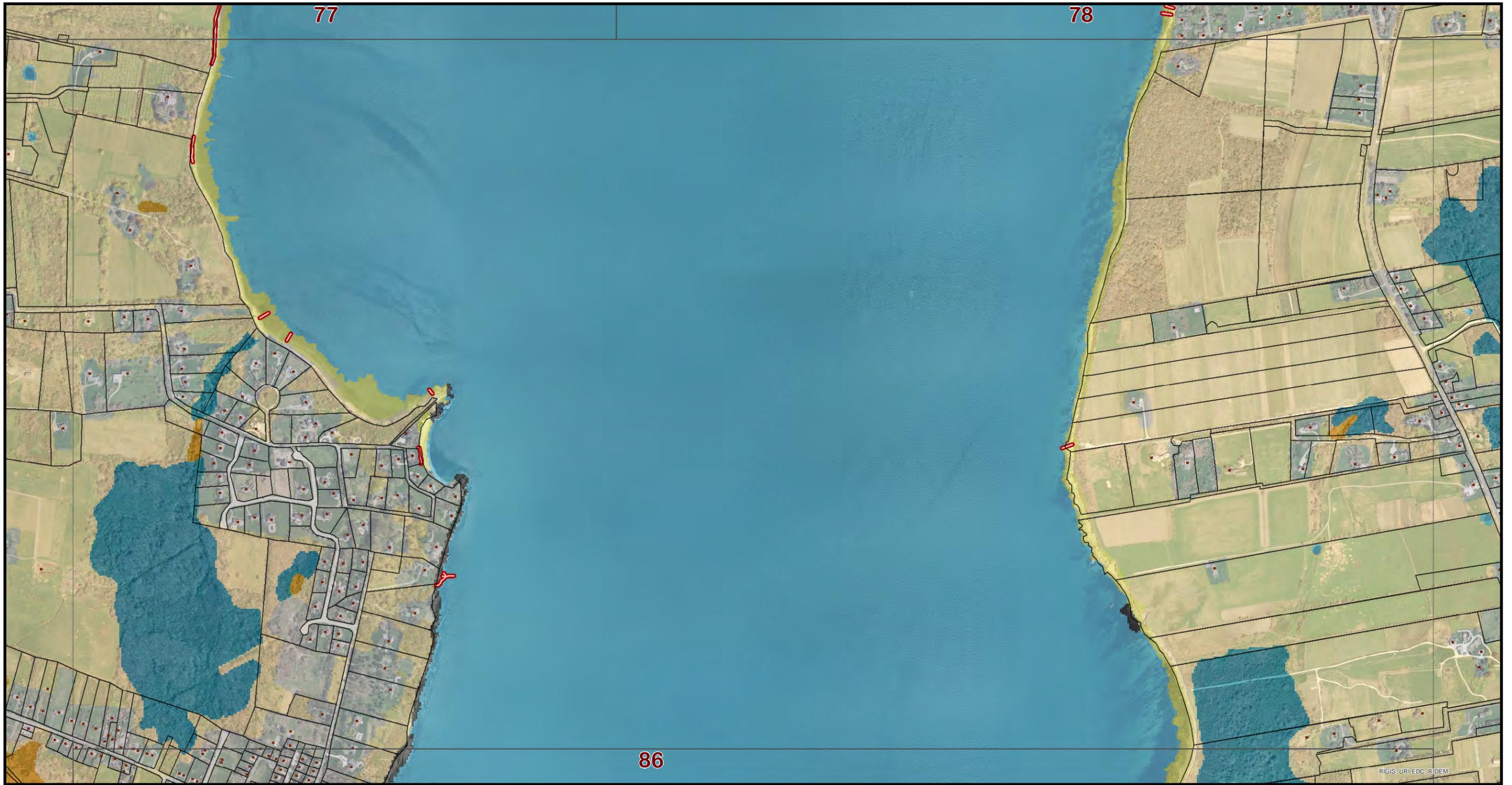
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- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

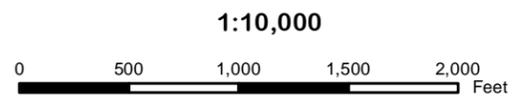
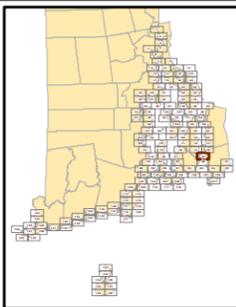


NOAA grant award #: NA120AR4310108

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Map
82



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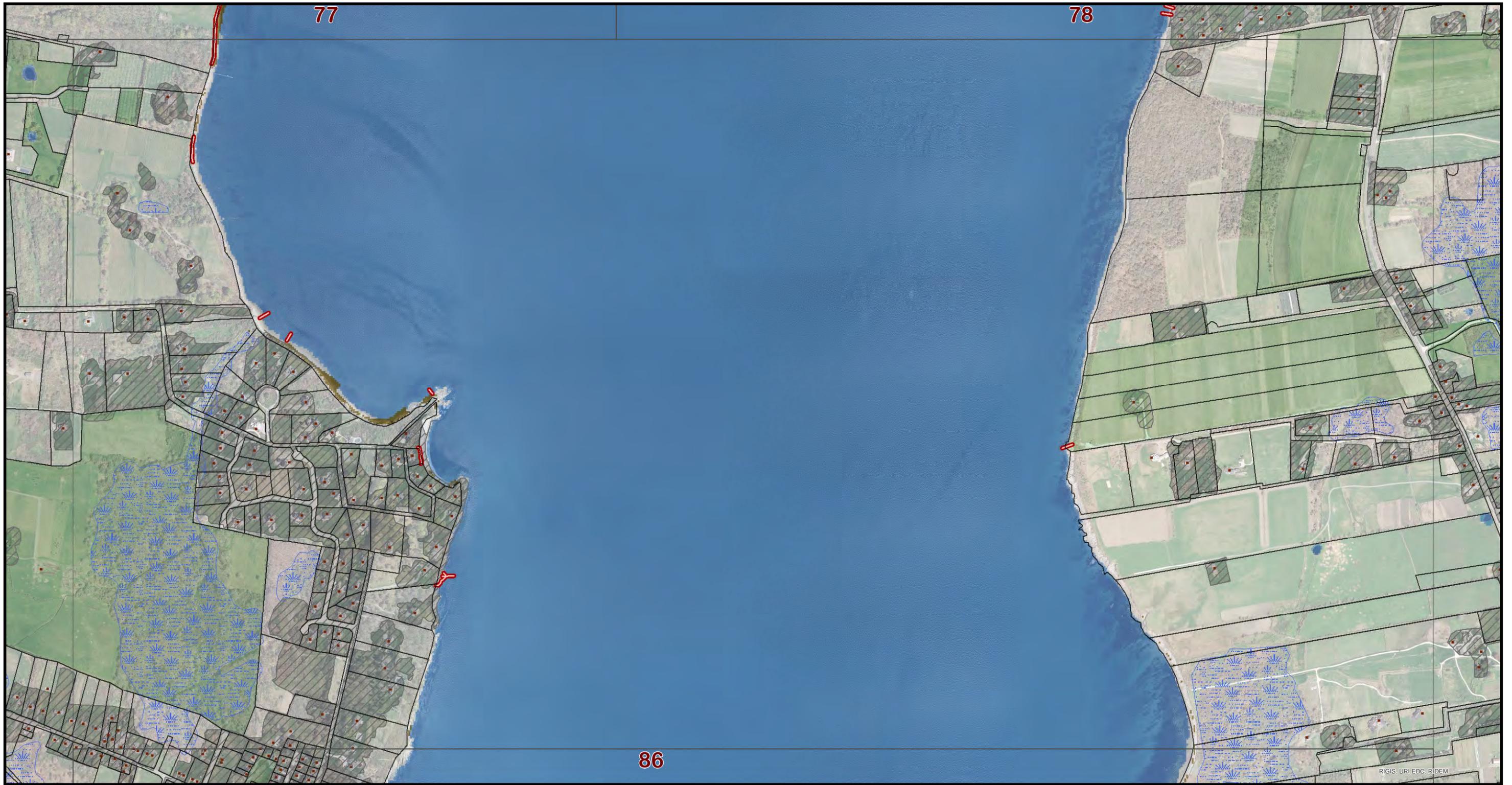
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition

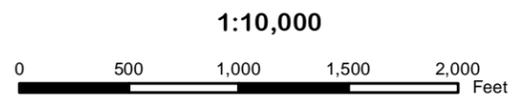
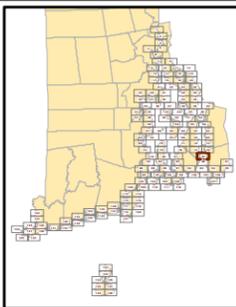


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Map
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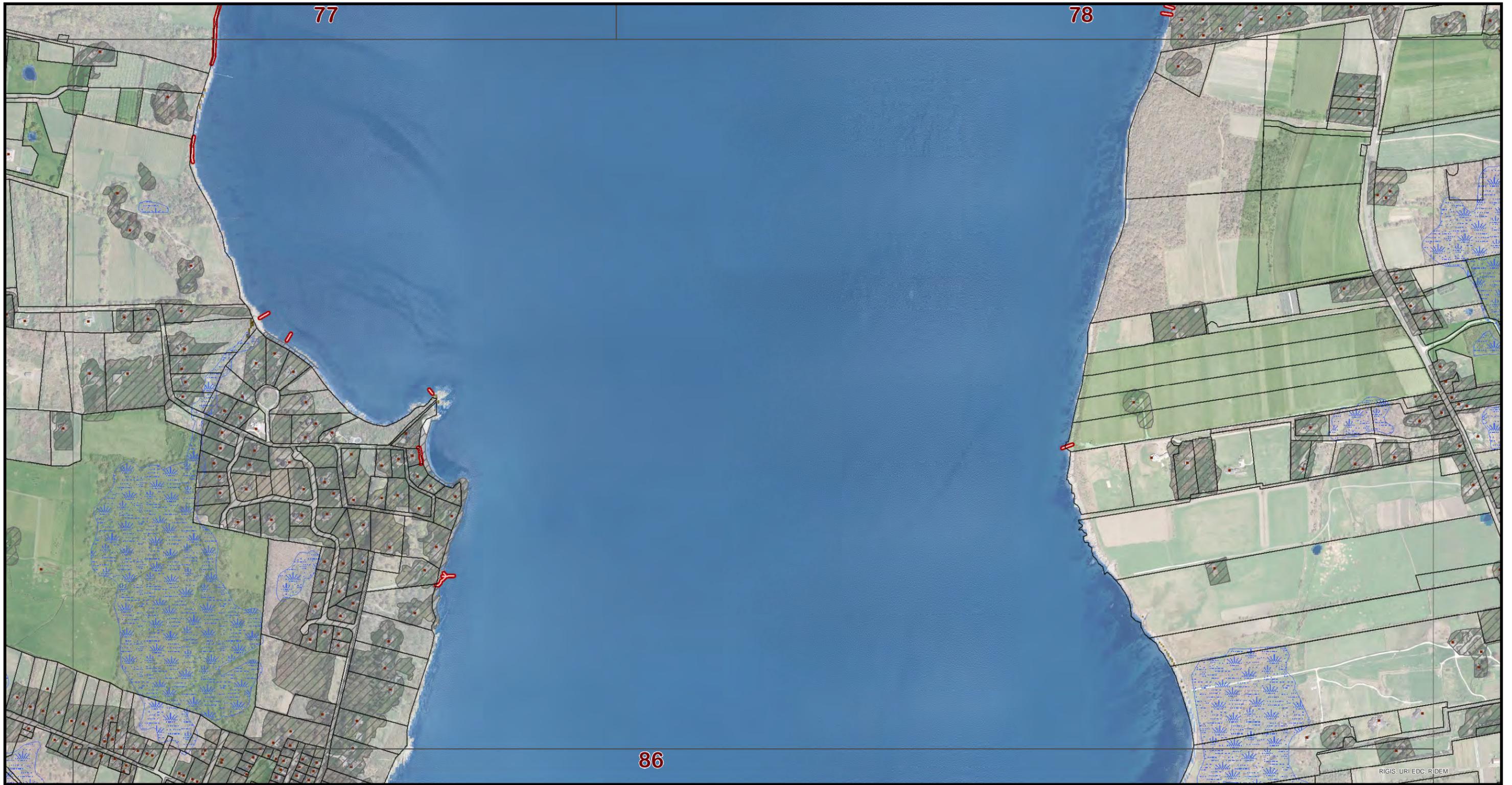
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-  Persistent Marsh Zone
-  Potential Marsh Loss
-  Open Water and Tidal Flat
-  Current Fresh Wetlands
-  Protected Open Space
-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

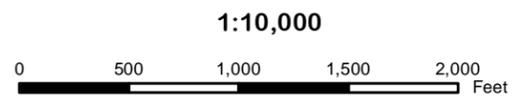
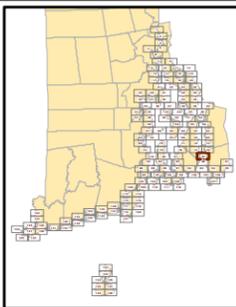


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Map
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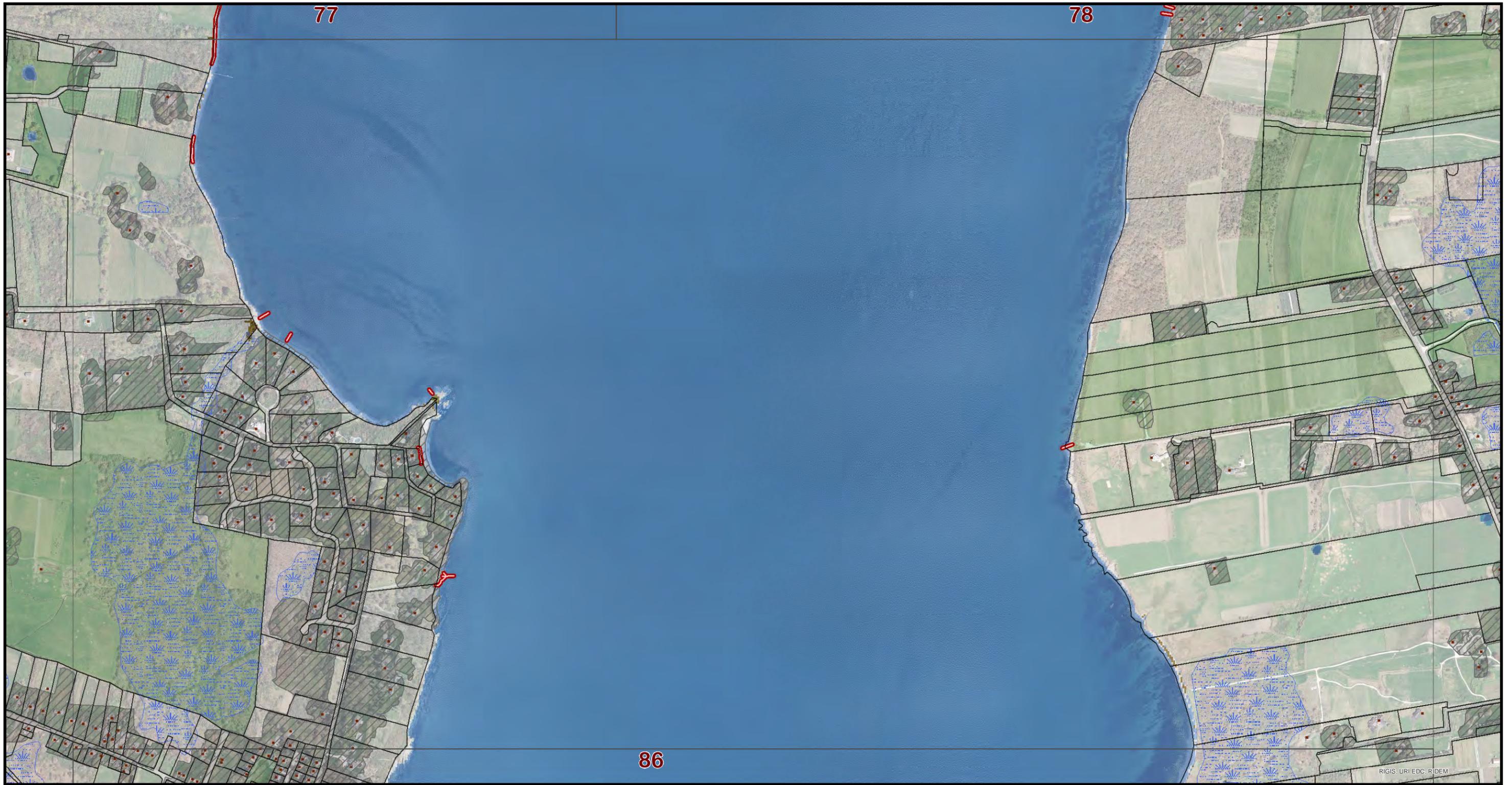


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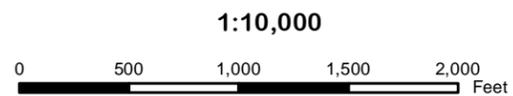
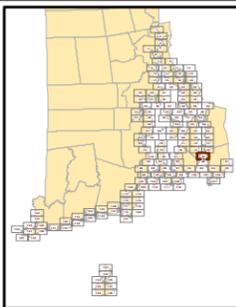
-  Potential Marsh Zone
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
82

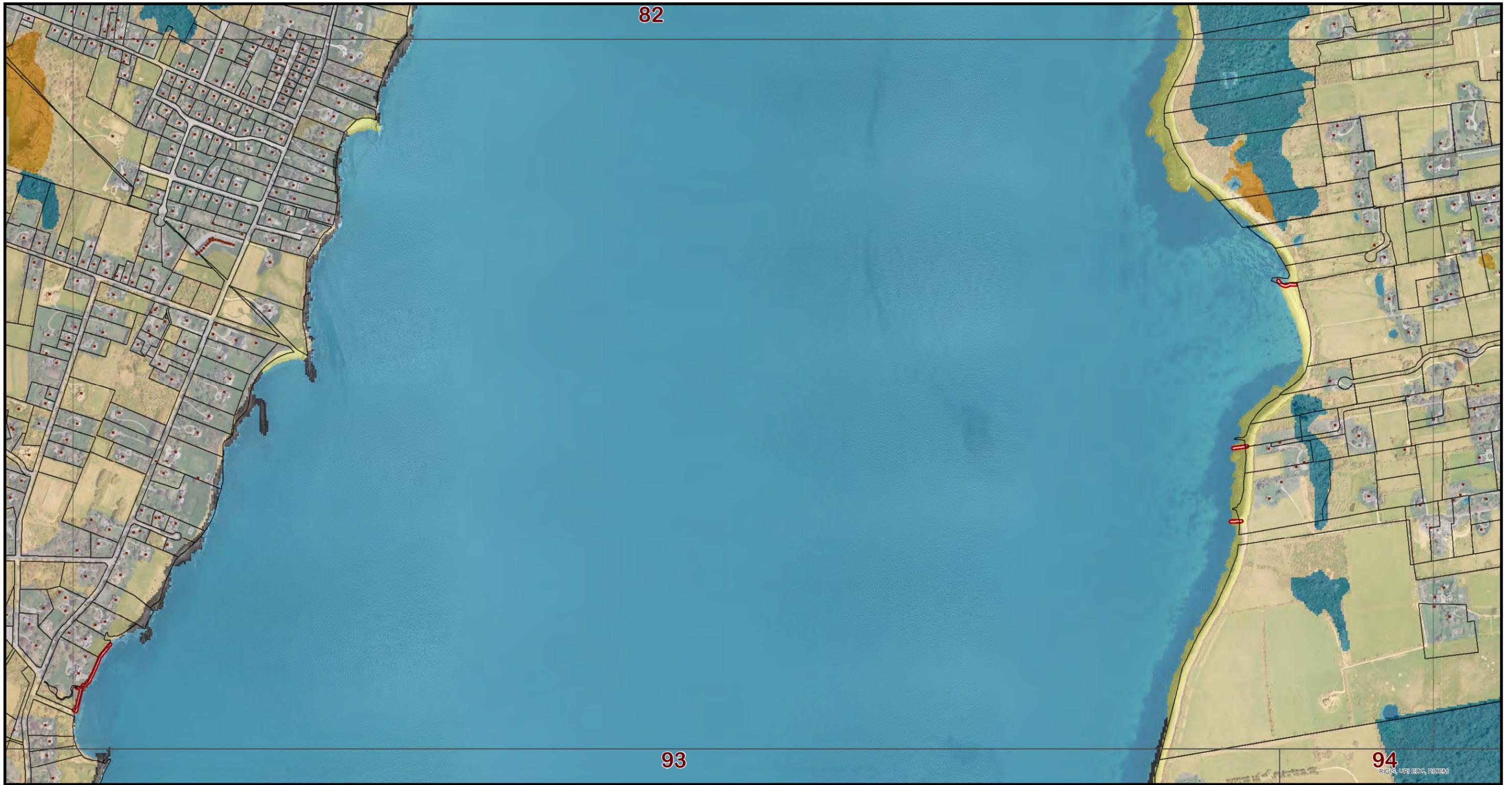


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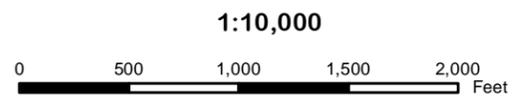
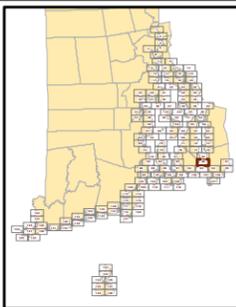
-  Potential Marsh Zone
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-  Hardened Shores
-  Buildings
-  Parcel Boundaries
-  Developed Land
-  CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model





Map
86

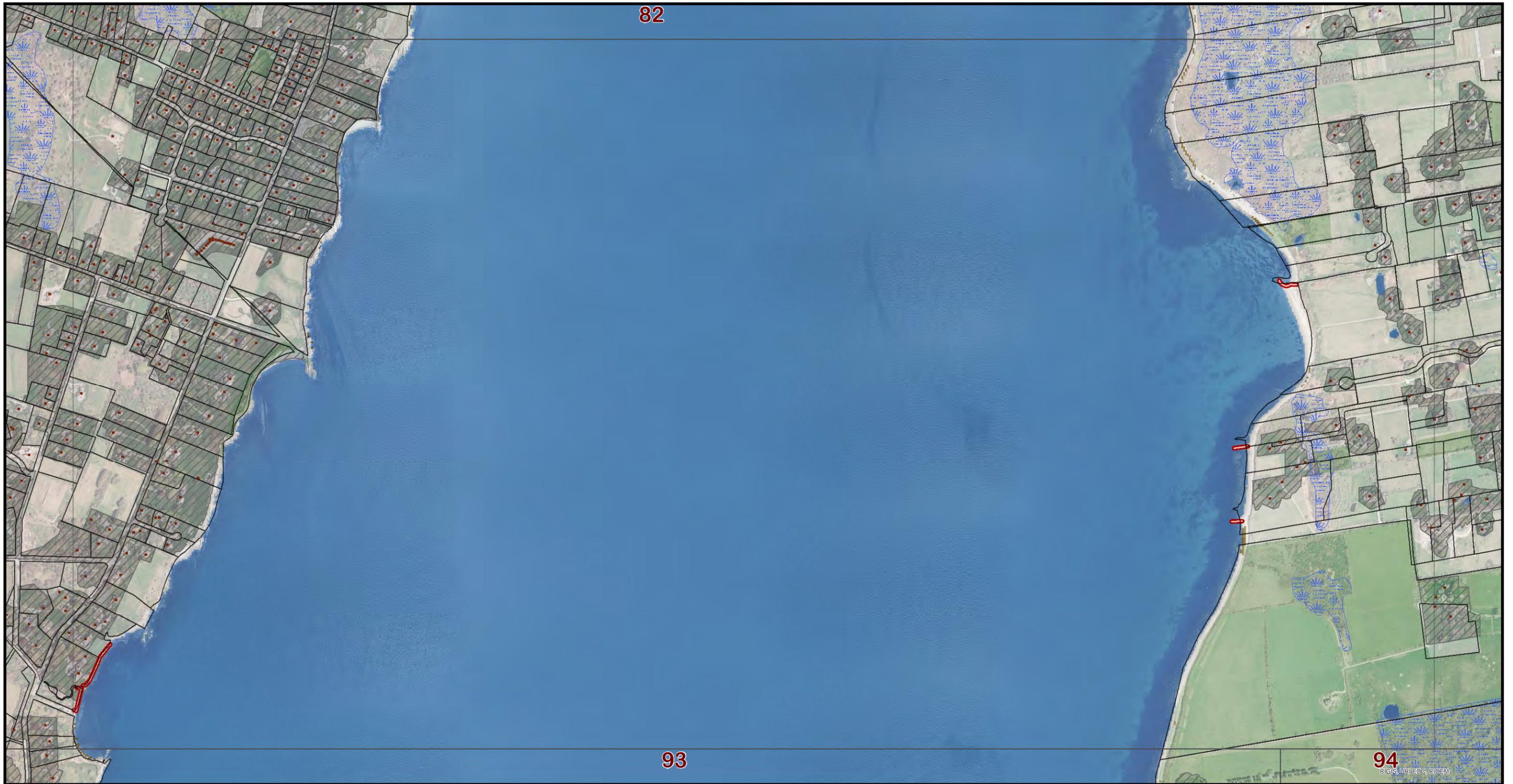


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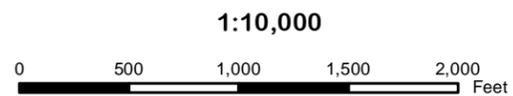
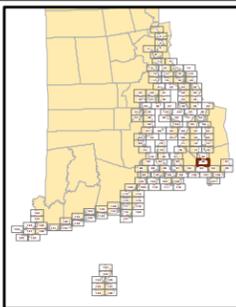
- | | |
|--------------------|--------------------------------|
| Developed Upland | Salt Marsh |
| Undeveloped Upland | Brackish Marsh |
| Rocky Intertidal | Scrub/Shrub Transitional Marsh |
| Beach | Fresh Marsh |
| Tidal Flat | Hardened Shores |
| Open Water | Buildings |
| Swamp | Parcel Boundaries |
| Tidal Creek | |

Tidal Marsh Vulnerability Analysis: Current Condition





Map
86

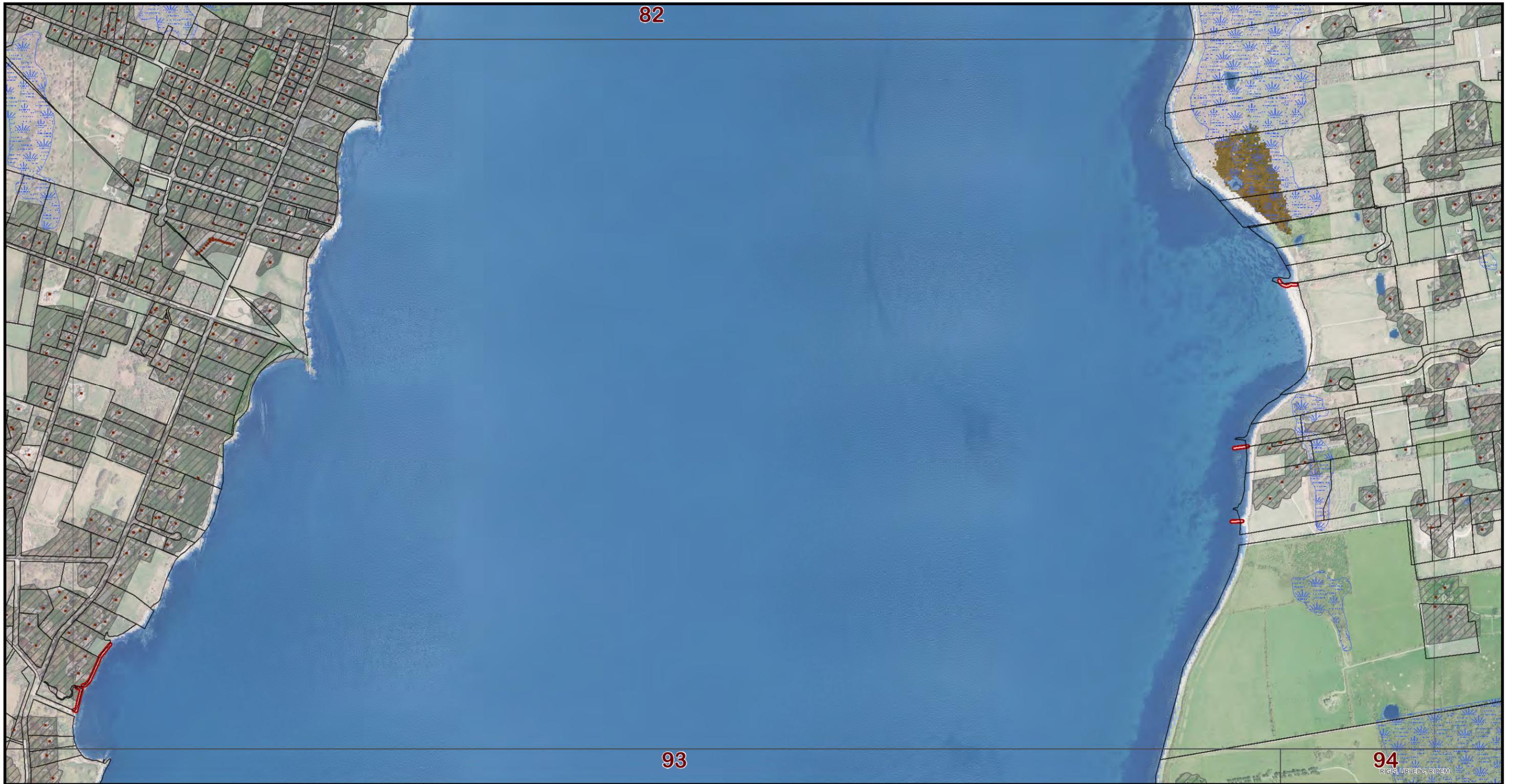


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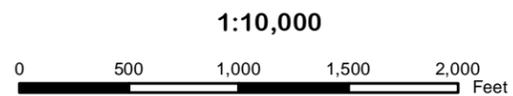
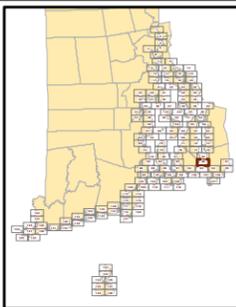
- Potential Marsh Zone
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- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model





Map
86

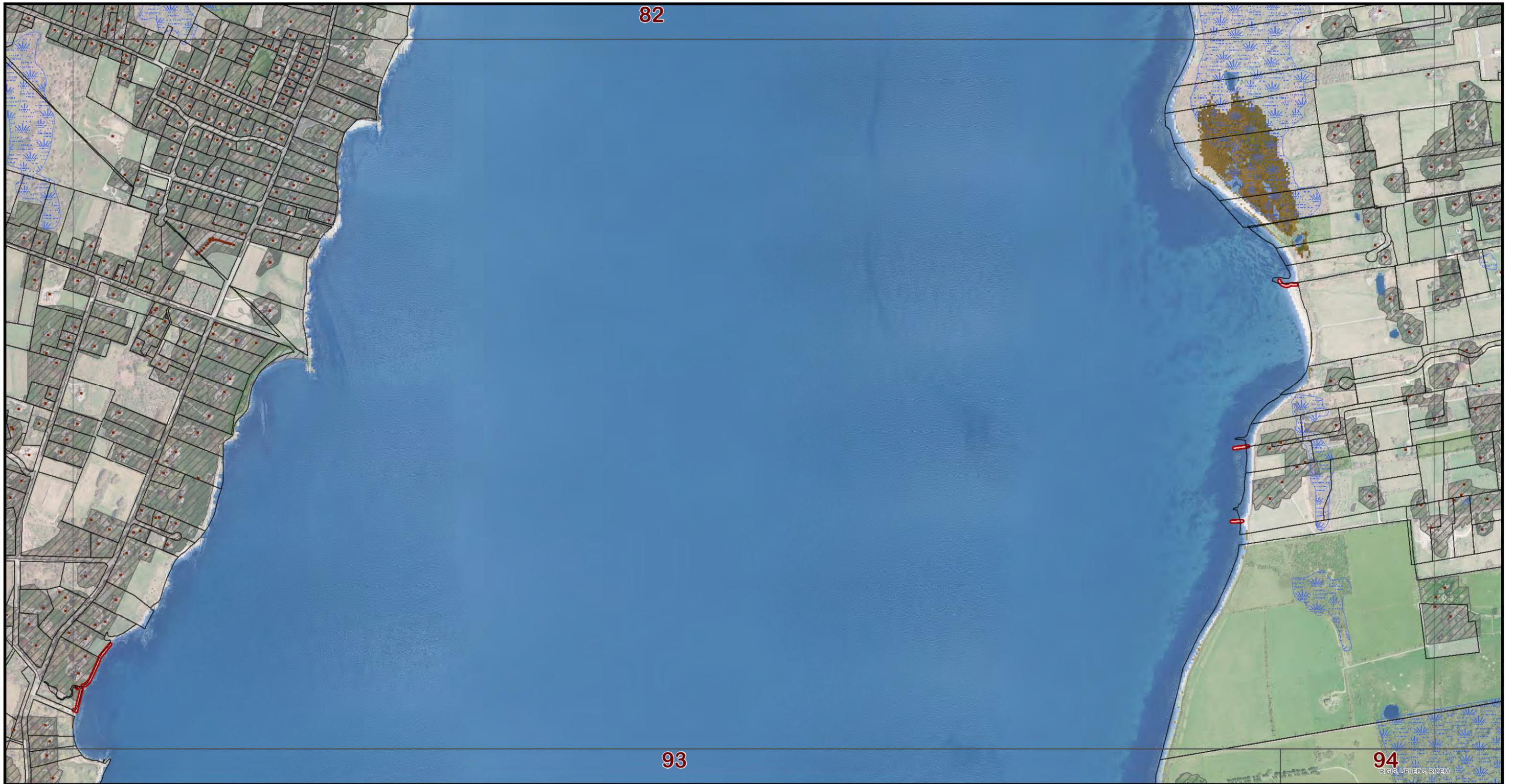


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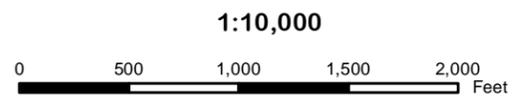
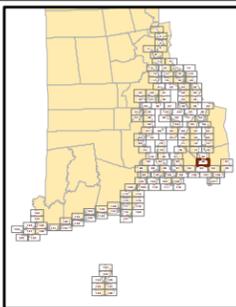
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Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model





Map
86



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Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

