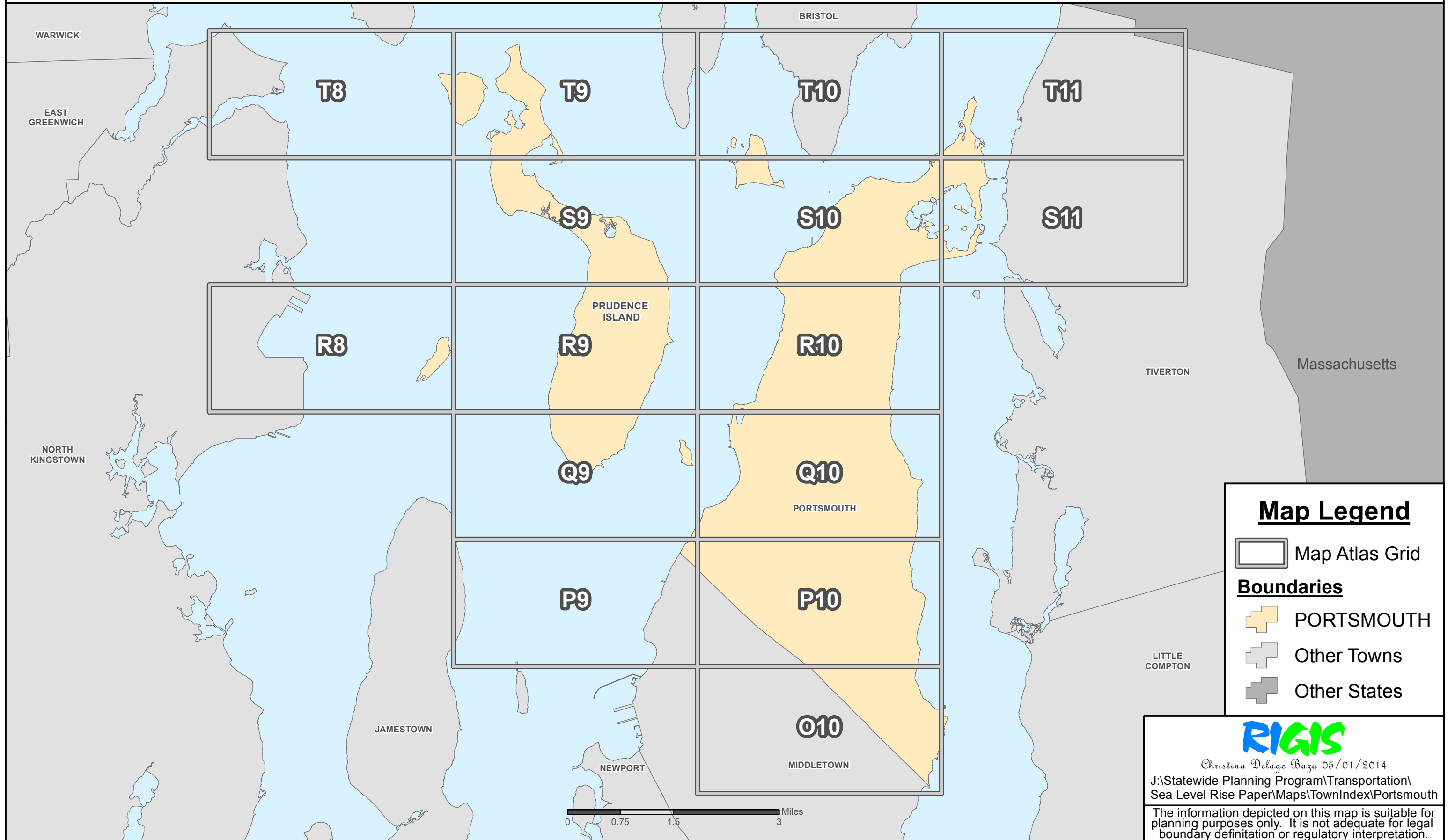






# Portsmouth Sea Level Rise: Map Atlas Grid



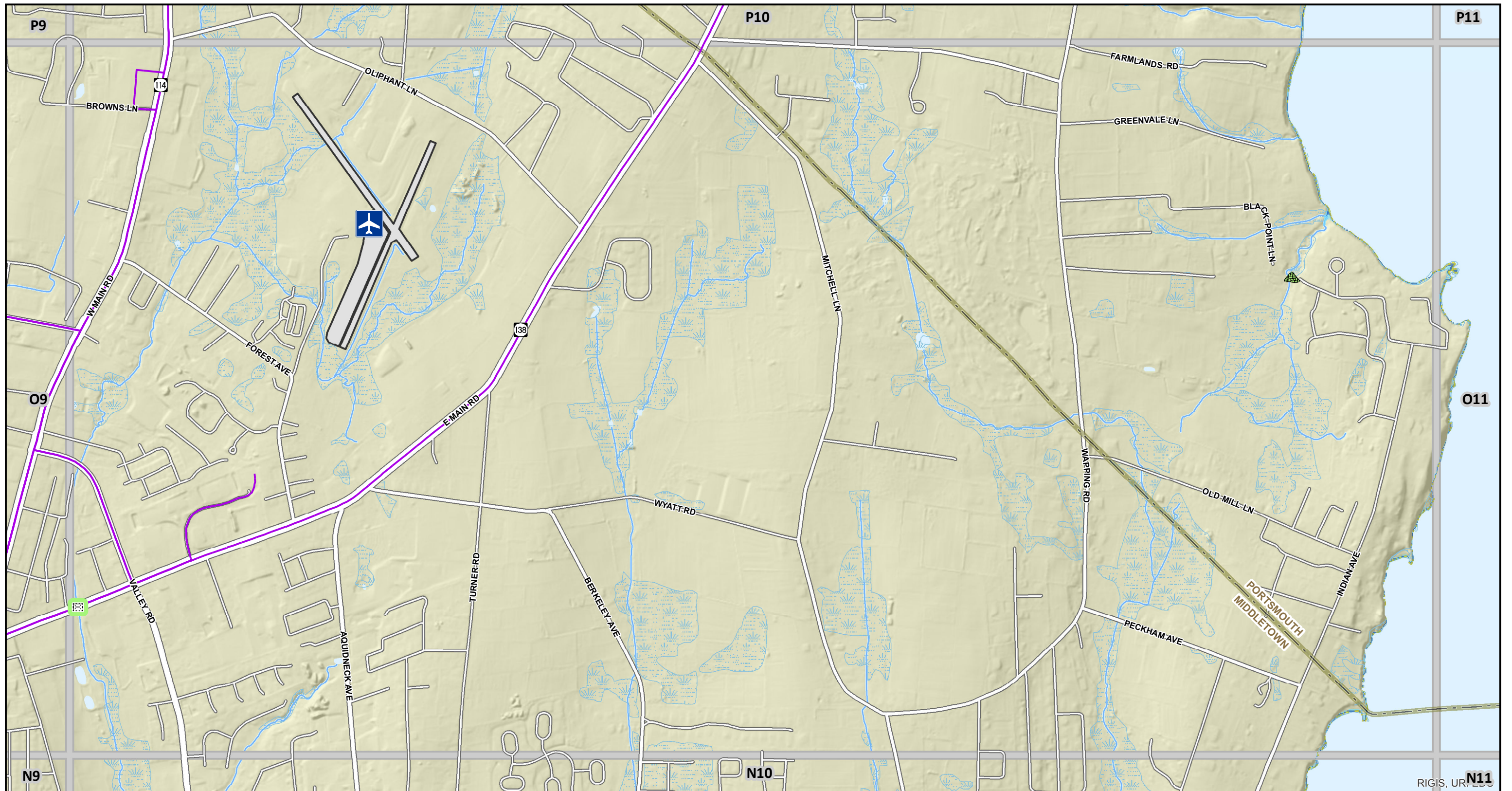
## Map Legend

-  Map Atlas Grid
- Boundaries**
-  PORTSMOUTH
-  Other Towns
-  Other States



Christina Delage Baza 05/01/2014  
 J:\Statewide Planning Program\Transportation\  
 Sea Level Rise Paper\Maps\TownIndex\Portsmouth

The information depicted on this map is suitable for planning purposes only. It is not adequate for legal boundary definition or regulatory interpretation.



**Map Legend**

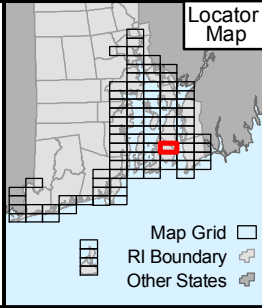
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |  |  |  |   |
|--|--|--|---|
| <p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li> 1 Foot</li> <li> 3 Feet</li> <li> 5 Feet</li> </ul> <p><b>Intermodal Hubs</b></p> <ul style="list-style-type: none"> <li> Airport</li> </ul> | <p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li> Roads</li> <li> Bus Routes</li> <li> Airports</li> </ul> | <p><b>Bridges</b></p> <p>Freeboard (FB) Height</p> <ul style="list-style-type: none"> <li> No FB Concern</li> </ul> <p>Accessibility</p> <ul style="list-style-type: none"> <li> Accessible</li> </ul> | <p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li> Map Atlas Grid</li> <li> Municipal Boundary</li> <li> Dams</li> <li> Streams</li> <li> RI Ponds &amp; MHHW**</li> <li> wetland</li> <li> RI Boundary***</li> </ul> |
|--|--|--|---|

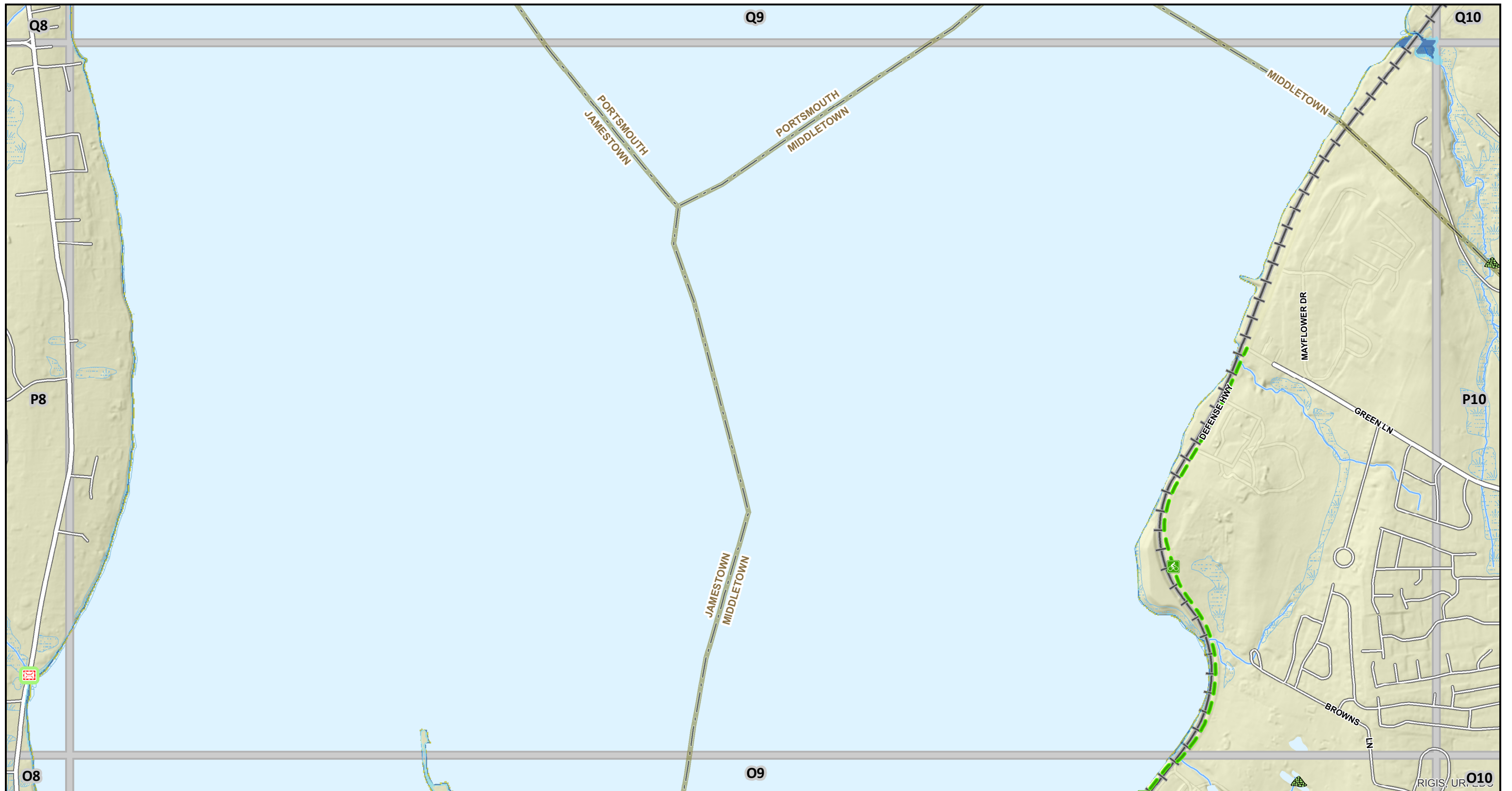
0 0.125 0.25 0.5 Miles

Christina Delage (Baga) 04/07/2014  
 J:\Statewide Planning Program\Transportation\Sea Level Rise Paper\Final\SLR\_Map20140407

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**Rhode Island Sea Level Rise: Impacts on Transportation Assets**  
**Middletown & Portsmouth**



### Map Legend

**NOTES:**

\* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

\*\* Mean Higher High Water

\*\*\* Includes Hillshade from USGS 2011 LiDAR

**SLR Inundation\***

- 1 Foot
- 3 Feet
- 5 Feet

**Transportation Infrastructure**

- Roads
- Railroads
- Bike Paths

**Bridges**

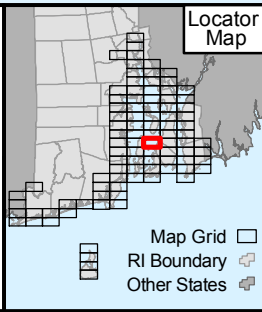
- Freeboard (FB) Height
- FB Concern
- Accessibility
- Accessible

**Reference Features**

- Map Atlas Grid
- Municipal Boundary
- Dams
- Streams
- RI Ponds & MHHW\*\*
- wetland
- RI Boundary\*\*\*

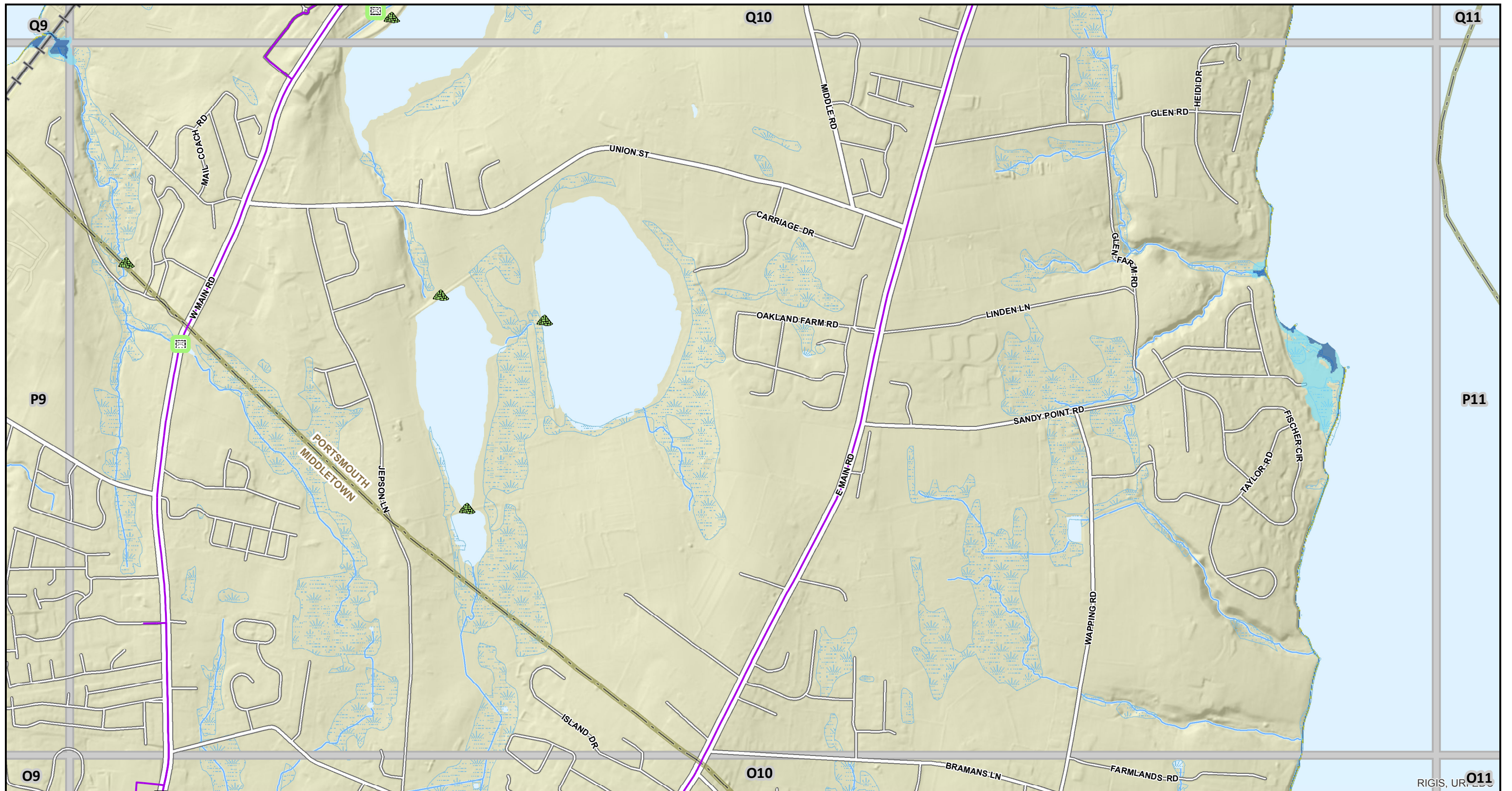


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# Rhode Island Sea Level Rise: Impacts on Transportation Assets

## Jamestown, Middletown & Portsmouth



**Map Legend**

NOTES:

- \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.
- \*\* Mean Higher High Water
- \*\*\* Includes Hillshade from USGS 2011 LiDAR

<p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li>1 Foot</li> <li>3 Feet</li> <li>5 Feet</li> </ul>	<p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li>Roads</li> <li>Railroads</li> <li>Bus Routes</li> </ul>	<p><b>Bridges</b></p> <p>Freeboard (FB) Height</p> <ul style="list-style-type: none"> <li>No FB Concern</li> </ul> <p>Accessibility</p> <ul style="list-style-type: none"> <li>Accessible</li> </ul>	<p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li>Map Atlas Grid</li> <li>Municipal Boundary</li> <li>Dams</li> <li>Streams</li> <li>RI Ponds &amp; MHHW**</li> <li>wetland</li> <li>RI Boundary***</li> </ul>
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0 0.125 0.25 0.5 Miles

RHODE ISLAND STATEWIDE PLANNING PROGRAM

NOAA

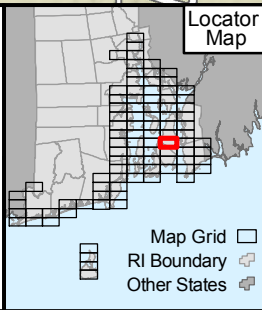
C R M C

RIGIS

Christina Delage (Baga 04/07/2014)

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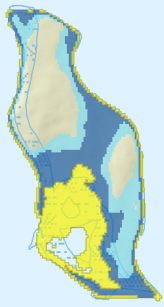
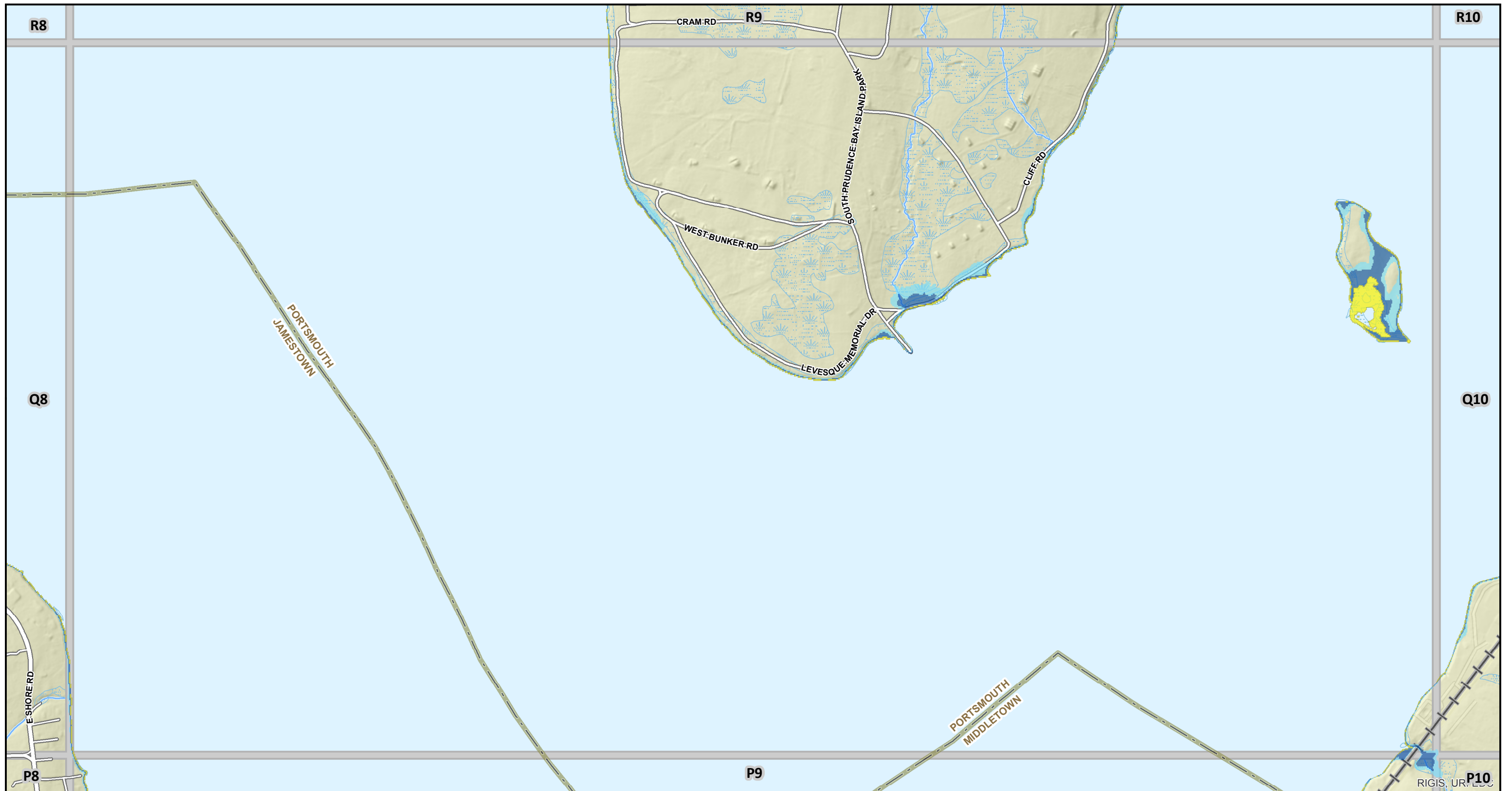


**Rhode Island Sea Level Rise: Impacts on Transportation Assets**

**Middletown & Portsmouth**

RIGIS, URL: [unreadable]

**MAP P10**



**Map Legend**

NOTES:

\* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

\*\* Mean Higher High Water

\*\*\* Includes Hillshade from USGS 2011 LiDAR

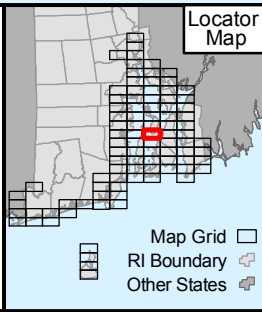
<p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> 1 Foot</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black; margin-right: 5px;"></span> 3 Feet</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> 5 Feet</li> </ul>	<p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> Roads</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; position: relative; top: -5px; left: 5px; right: 5px; border-left: 1px solid black; border-right: 1px solid black; margin-right: 5px;"></span> Railroads</li> </ul>	<p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Map Atlas Grid</li> <li><span style="display: inline-block; width: 10px; border-bottom: 2px solid black; margin-right: 5px;"></span> Municipal Boundary</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid blue; margin-right: 5px;"></span> Streams</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid blue; margin-right: 5px;"></span> RI Ponds &amp; MHHW**</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid blue; margin-right: 5px;"></span> wetland</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid yellow; margin-right: 5px;"></span> RI Boundary***</li> </ul>
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0 0.125 0.25 0.5 Miles

Christina Delage Baga 04/07/2014

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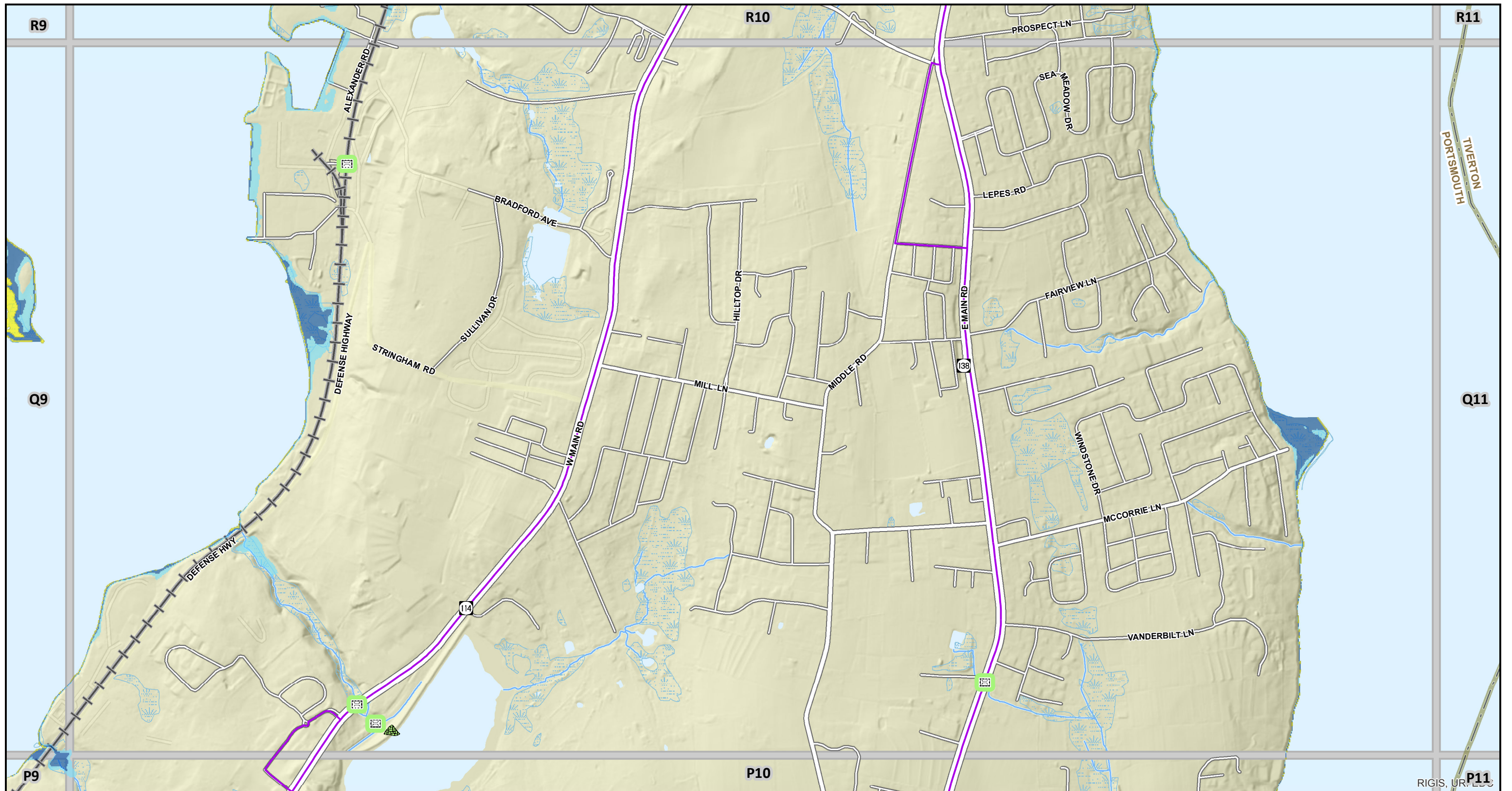
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## Rhode Island Sea Level Rise: Impacts on Transportation Assets

### Portsmouth

**MAP Q9**



**Map Legend**

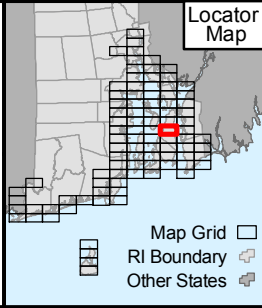
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |   |   |  |   |
|---|---|--|---|
| <p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li> 1 Foot</li> <li> 3 Feet</li> <li> 5 Feet</li> </ul> | <p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li> Roads</li> <li> Railroads</li> <li> Bus Routes</li> <li> Ports &amp; Harbors</li> </ul> | <p><b>Bridges</b></p> <p>Freeboard (FB) Height</p> <ul style="list-style-type: none"> <li> No FB Concern</li> </ul> <p>Accessibility</p> <ul style="list-style-type: none"> <li> Accessible</li> </ul> | <p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li> Map Atlas Grid</li> <li> Municipal Boundary</li> <li> Dams</li> <li> Streams</li> <li> RI Ponds &amp; MHHW**</li> <li> wetland</li> <li> RI Boundary***</li> </ul> |
|---|---|--|---|

0 0.125 0.25 0.5 Miles

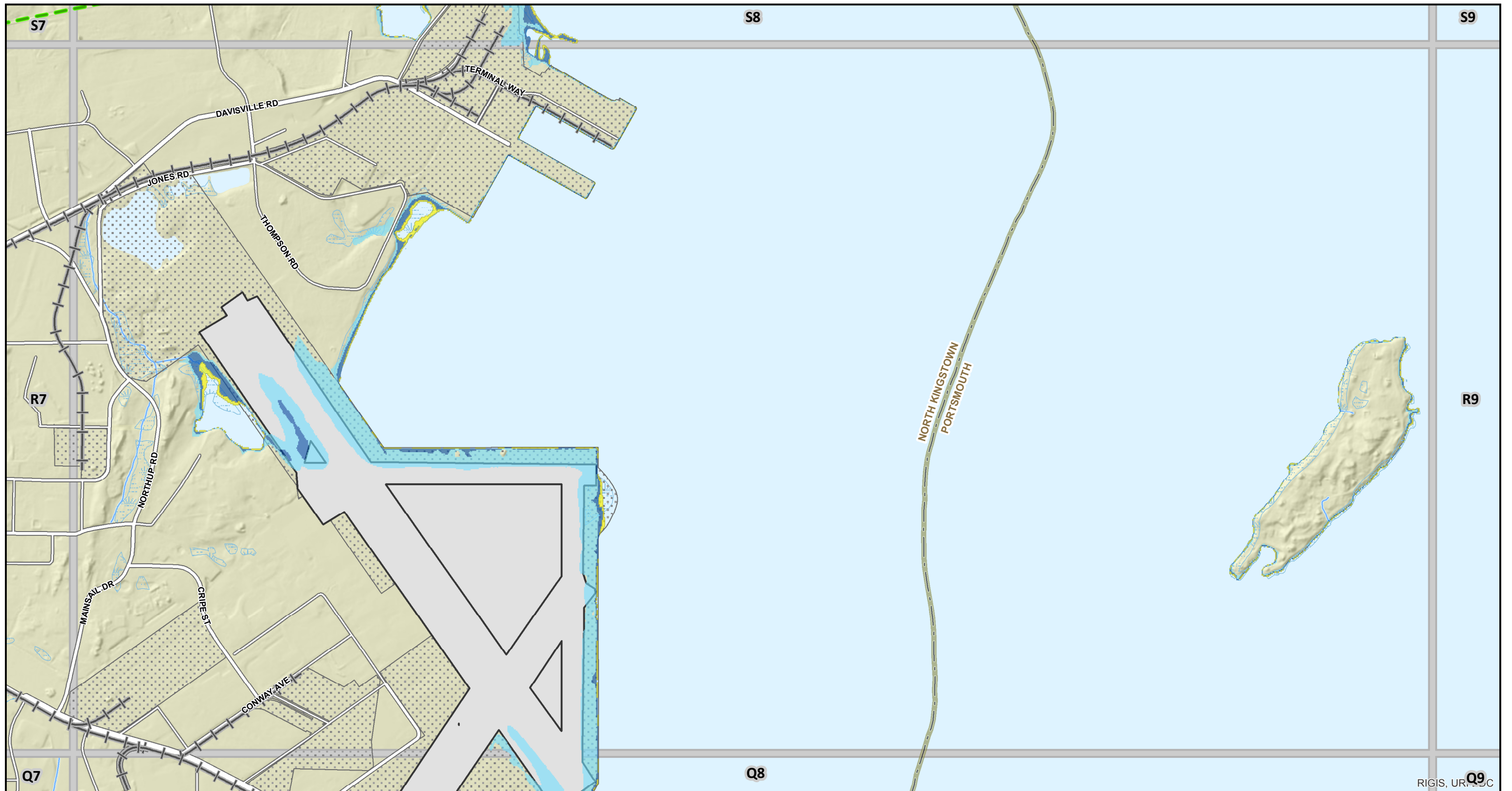
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 J:\Statewide Planning Program\Transportation\Sea Level Rise Paper\Final\SLR\_Map20140407

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**Rhode Island Sea Level Rise: Impacts on Transportation Assets**

**Portsmouth**



**Map Legend**

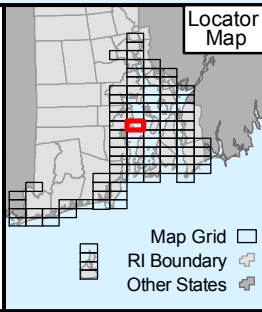
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |   |  |   |
|---|--|---|
| <b>SLR Inundation*</b>  | <b>Transportation Infrastructure</b>   | <b>Reference Features</b>   |
| <ul style="list-style-type: none"> <li> 1 Foot</li> <li> 3 Feet</li> <li> 5 Feet</li> </ul> | <ul style="list-style-type: none"> <li> Roads</li> <li> Railroads</li> <li> Bike Paths</li> <li> Airports</li> <li> Ports &amp; Harbors</li> </ul> | <ul style="list-style-type: none"> <li> Map Atlas Grid</li> <li> Municipal Boundary</li> <li> Streams</li> <li> RI Ponds &amp; MHHW**</li> <li> wetland</li> <li> RI Boundary***</li> </ul> |

0 0.125 0.25 0.5 Miles

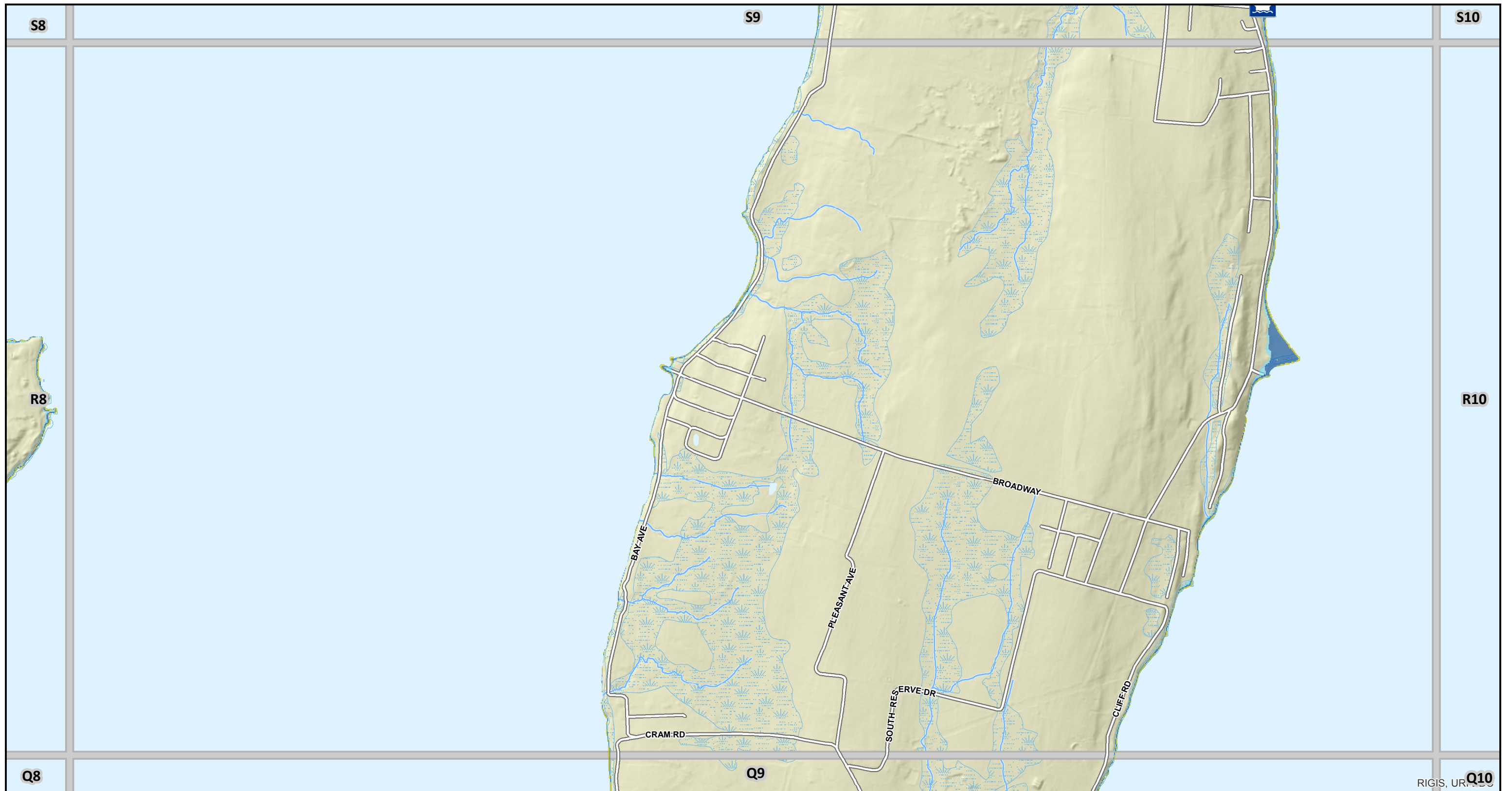
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**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 North Kingstown & Portsmouth**

**MAP R8**



RIGIS, URL: [unreadable]

**Map Legend**

NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

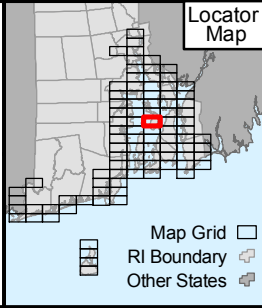
- SLR Inundation\***
- 1 Foot
  - 3 Feet
  - 5 Feet
- Intermodal Hubs**
- Ferry

- Transportation Infrastructure**
- Roads
  - Ports & Harbors

- Reference Features**
- Map Atlas Grid
  - Streams
  - RI Ponds & MHHW\*\*
  - wetland
  - RI Boundary\*\*\*



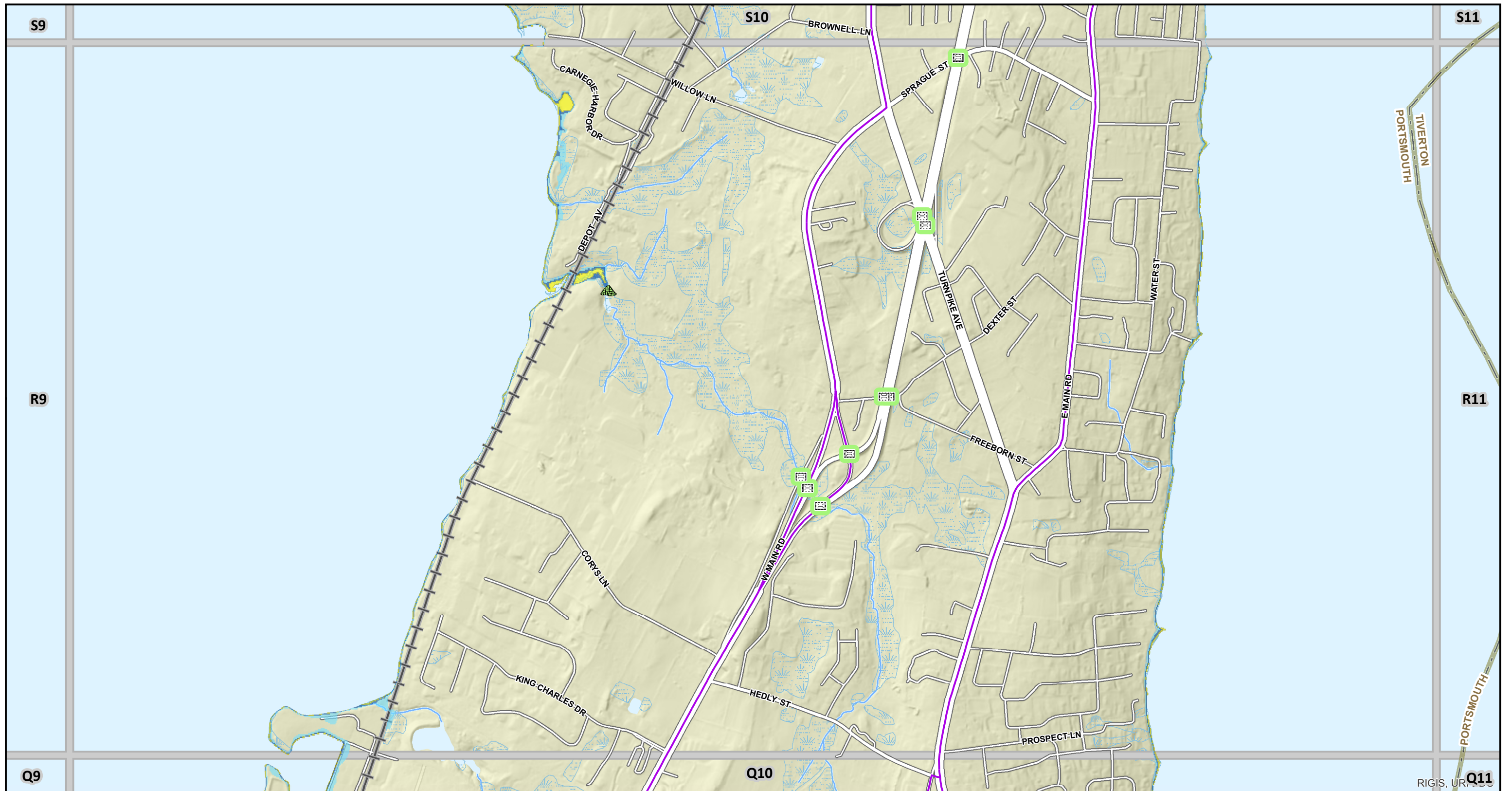
Christina Delage (Baga) 04/07/2014  
 J:\Statewide Planning Program\Transportation\Sea Level Rise Paper\FinalSLR\_Map20140407  
 Map Disclaimer: This map is not the product of a Professional Land Survey. It was created by RI Statewide Planning Program for general reference, informational, planning and guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. RI Statewide Planning Program makes no warranty, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.



**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 Portsmouth**

**MAP R9**





**Map Legend**

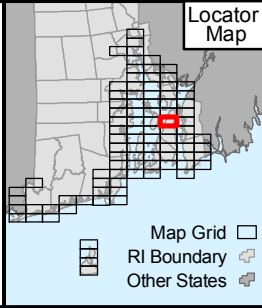
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |   |  |  |  |
|---|--|--|--|
| <p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> 1 Foot</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black; margin-right: 5px;"></span> 3 Feet</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: cyan; border: 1px solid black; margin-right: 5px;"></span> 5 Feet</li> </ul> | <p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> Roads</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; position: relative; top: -2px; left: 2px;">+</span> Railroads</li> <li><span style="display: inline-block; width: 10px; border-bottom: 2px solid purple; margin-right: 5px;"></span> Bus Routes</li> </ul> | <p><b>Bridges</b></p> <p>Freeboard (FB) Height</p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> No FB Concern</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid green; margin-right: 5px;"></span> Accessible</li> </ul> | <p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid gray; margin-right: 5px;"></span> Map Atlas Grid</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid gray; margin-right: 5px;"></span> Municipal Boundary</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border: 1px solid black; margin-right: 5px;"></span> Dams</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid blue; margin-right: 5px;"></span> Streams</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black; margin-right: 5px;"></span> RI Ponds &amp; MHHW**</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: cyan; border: 1px solid black; margin-right: 5px;"></span> wetland</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid yellow; margin-right: 5px;"></span> RI Boundary***</li> </ul> |
|---|--|--|--|

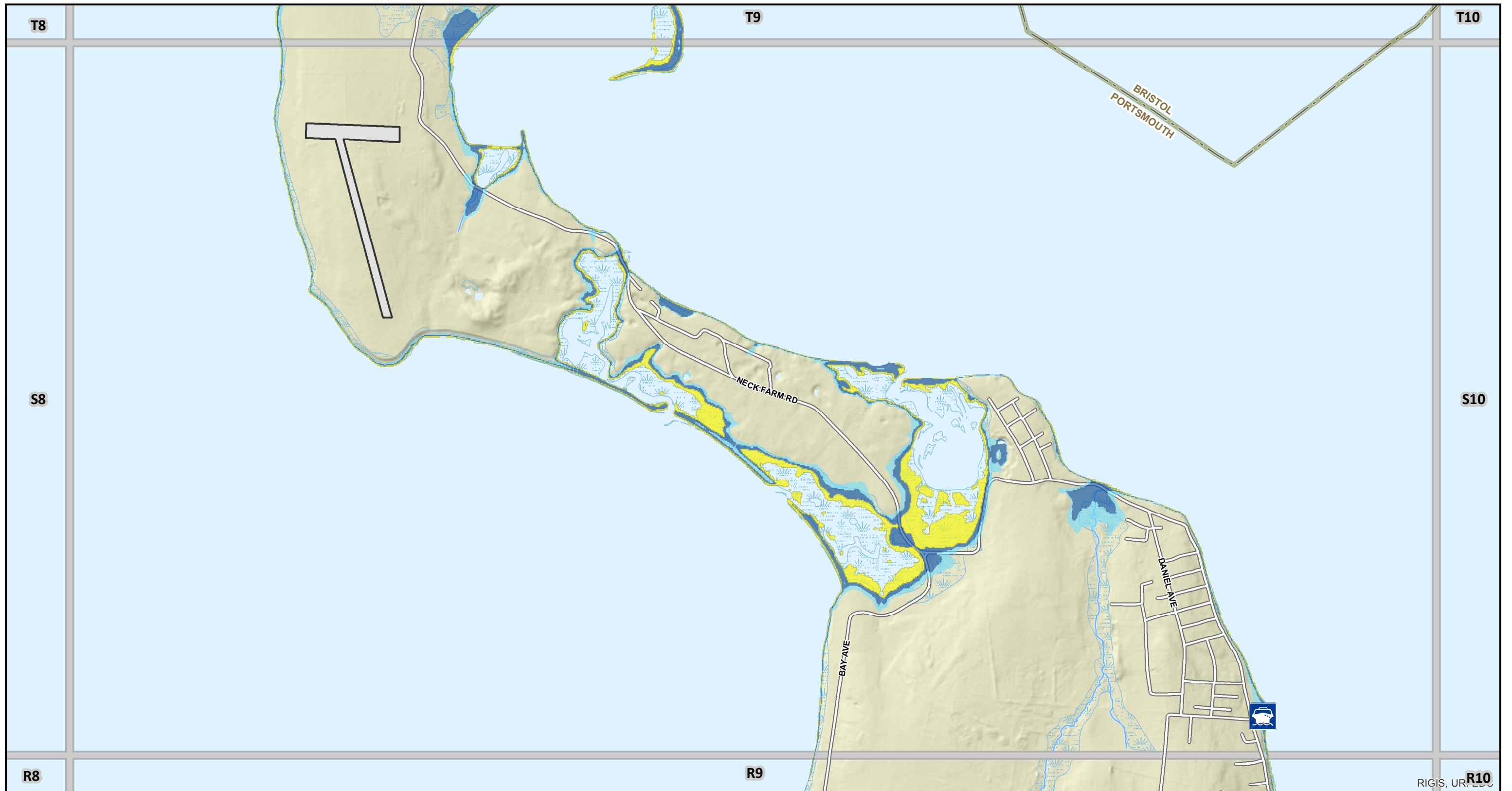
0 0.125 0.25 0.5 Miles

Christina Delage (Baga) 04/07/2014  
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**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 Portsmouth**



**Map Legend**

NOTES:

\* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

\*\* Mean Higher High Water

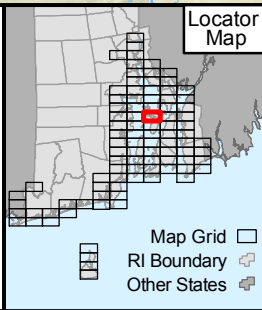
\*\*\* Includes Hillshade from USGS 2011 LiDAR

<p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li> 1 Foot</li> <li> 3 Feet</li> <li> 5 Feet</li> </ul> <p><b>Intermodal Hubs</b></p> <ul style="list-style-type: none"> <li> Ferry</li> </ul>	<p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li> Roads</li> <li> Airports</li> <li> Ports &amp; Harbors</li> </ul>	<p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li> Map Atlas Grid</li> <li> Municipal Boundary</li> <li> Streams</li> <li> RI Ponds &amp; MHHW**</li> <li> wetland</li> <li> RI Boundary***</li> </ul>
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0 0.125 0.25 0.5 Miles

Christina Delage (Baga) 04/07/2014  
J:\Statewide Planning Program\Transportation\Sea Level Rise Paper\Final\SLR\_Map20140407

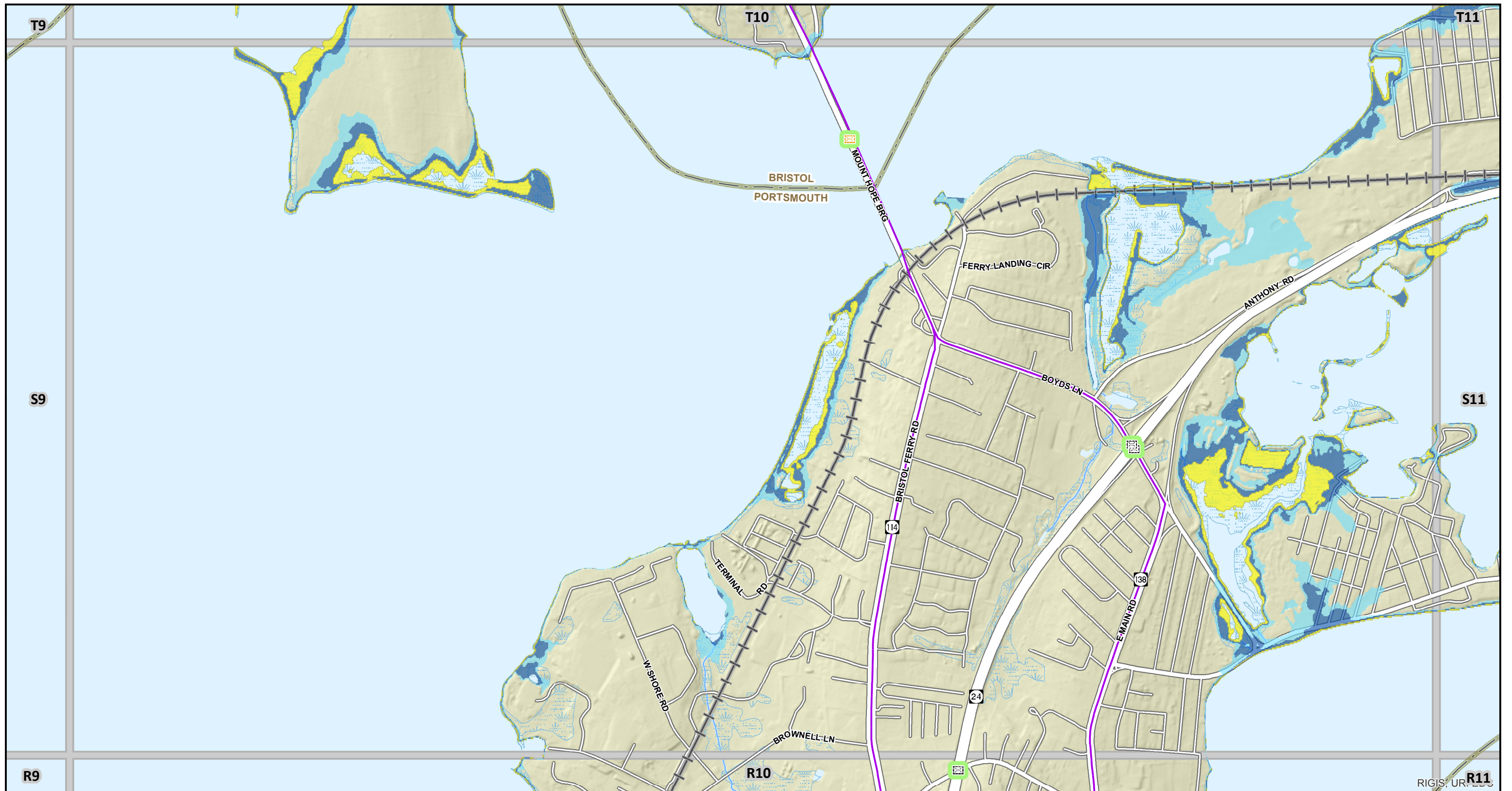
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**Rhode Island Sea Level Rise:  
Impacts on Transportation Assets**

**Portsmouth**

**MAP S9**



### Map Legend

**NOTES:**

\* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

\*\* Mean Higher High Water

\*\*\* Includes Hillshade from USGS 2011 LiDAR

**SLR Inundation\***

- 1 Foot
- 3 Feet
- 5 Feet

**Transportation Infrastructure**

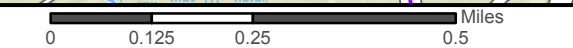
- Roads
- Railroads
- Bus Routes

**Bridges**

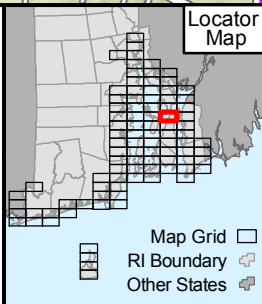
- Freeboard (FB) Height
- FB Unknown
  - No FB Concern
- Accessibility
- Accessible

**Reference Features**

- Map Atlas Grid
- Municipal Boundary
- Streams
- RI Ponds & MHHW\*\*
- wetland
- RI Boundary\*\*\*



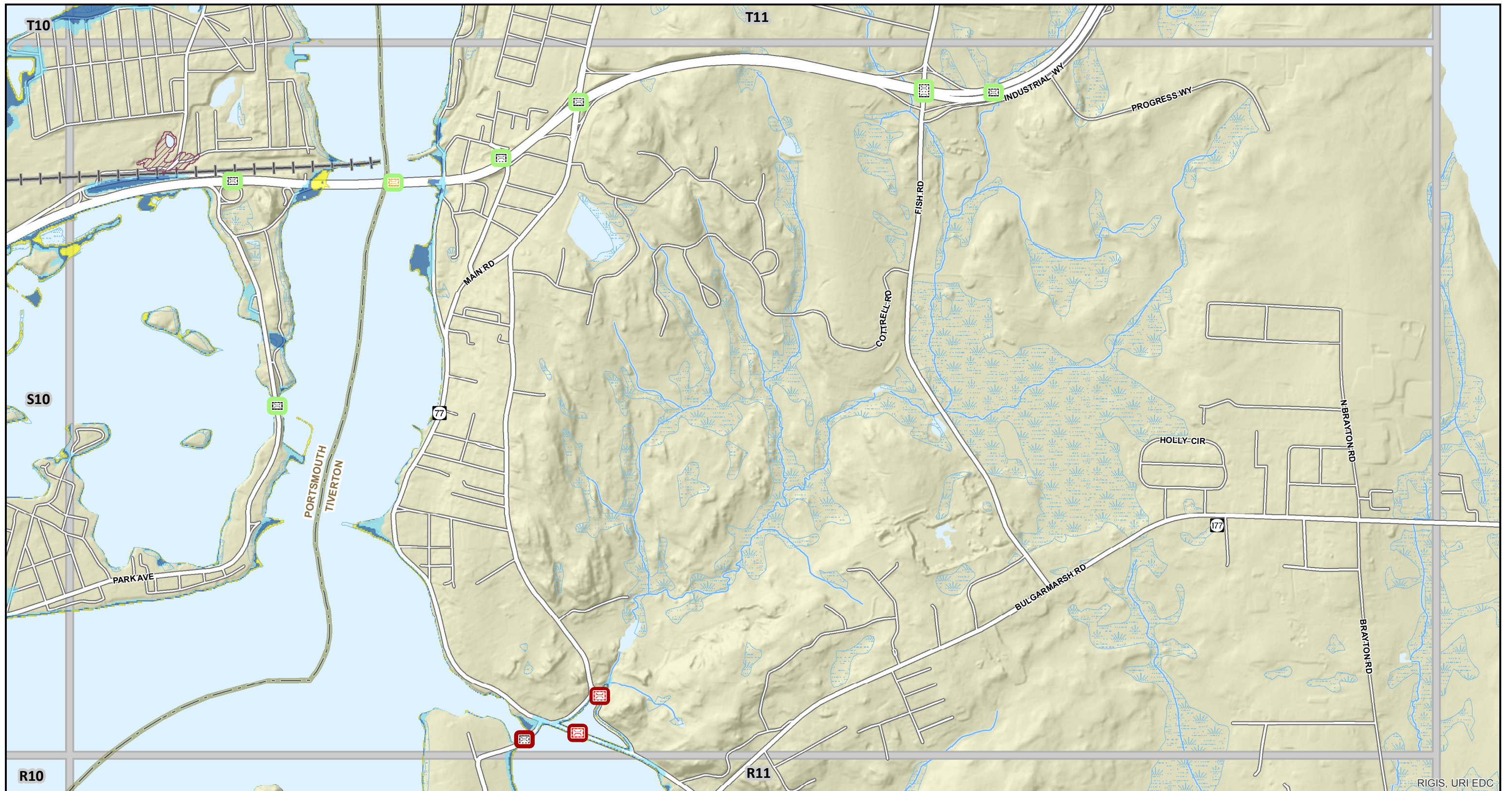
Christina Delage (Baga) 04/07/2014  
 J:\Statewide Planning Program\Transportation\Sea Level Rise Paper\Final\SLR\_Map20140407  
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# Rhode Island Sea Level Rise: Impacts on Transportation Assets

## Portsmouth

MAP S10



RIGIS, URI EDC

**Map Legend**

NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- SLR Inundation\***
- 1 Foot
  - 3 Feet
  - 5 Feet
- Connection Uncertain**
- MHHW, 1ft, 3ft, 5ft

- Transportation Infrastructure**
- Roads
  - + Railroads

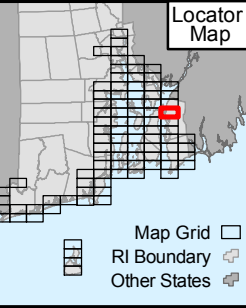
- Bridges**
- Freeboard (FB) Height
- FB Concern
  - FB Unknown
  - No FB Concern
- Accessibility
- Not Accessible
  - Accessible

- Reference Features**
- Map Atlas Grid
  - Municipal Boundary
  - ~ Streams
  - ~ RI Ponds & MHHW\*\*
  - ~ wetland
  - RI Boundary\*\*\*



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**Rhode Island Sea Level Rise: Impacts on Transportation Assets**

**Portsmouth & Tiverton**

**MAP S11**

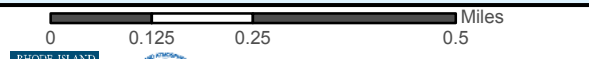


RIGIS, UR, LDC S9

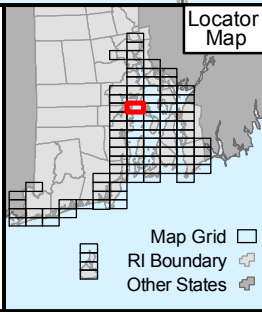
**Map Legend**

NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

SLR Inundation*	Transportation Infrastructure	Reference Features
1 Foot	Roads	Map Atlas Grid
3 Feet	Bike Paths	Municipal Boundary
5 Feet		Streams
		RI Ponds & MHHW**
		wetland
		RI Boundary***

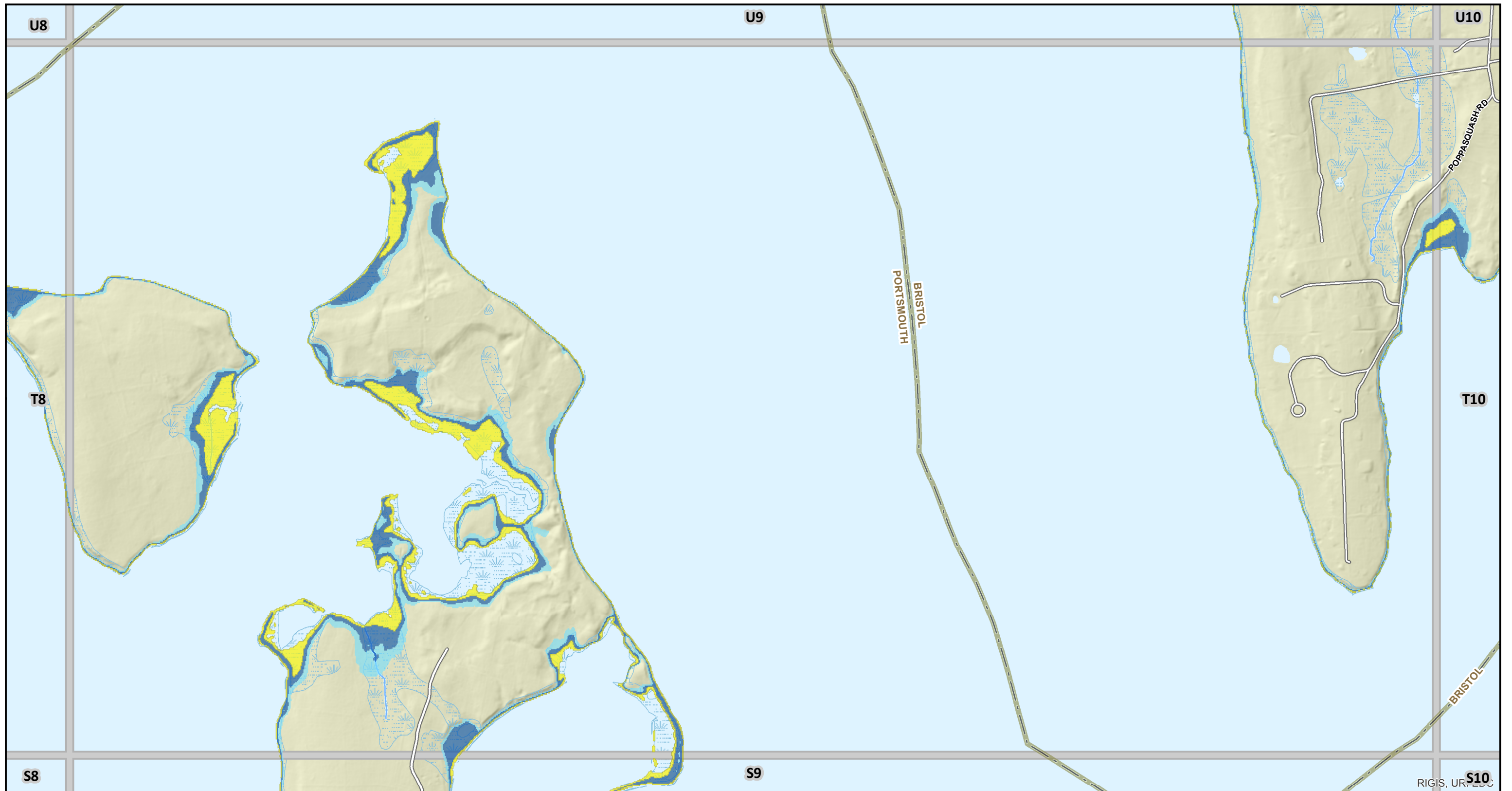


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**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 North Kingstown, Warwick & Portsmouth**

**MAP T8**



**Map Legend**

NOTES:

\* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.

\*\* Mean Higher High Water

\*\*\* Includes Hillshade from USGS 2011 LiDAR

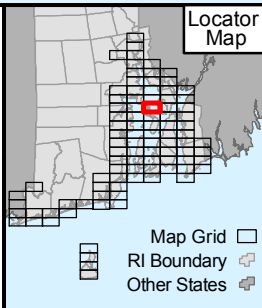
<p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> 1 Foot</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border: 1px solid black; margin-right: 5px;"></span> 3 Feet</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightblue; border: 1px solid black; margin-right: 5px;"></span> 5 Feet</li> </ul>	<p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> Roads</li> </ul>	<p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Map Atlas Grid</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px solid black; margin-right: 5px;"></span> Municipal Boundary</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px dashed blue; margin-right: 5px;"></span> Streams</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px dashed blue; margin-right: 5px;"></span> RI Ponds &amp; MHHW**</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px dashed blue; margin-right: 5px;"></span> wetland</li> <li><span style="display: inline-block; width: 10px; border-bottom: 1px dashed yellow; margin-right: 5px;"></span> RI Boundary***</li> </ul>
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0 0.125 0.25 0.5 Miles

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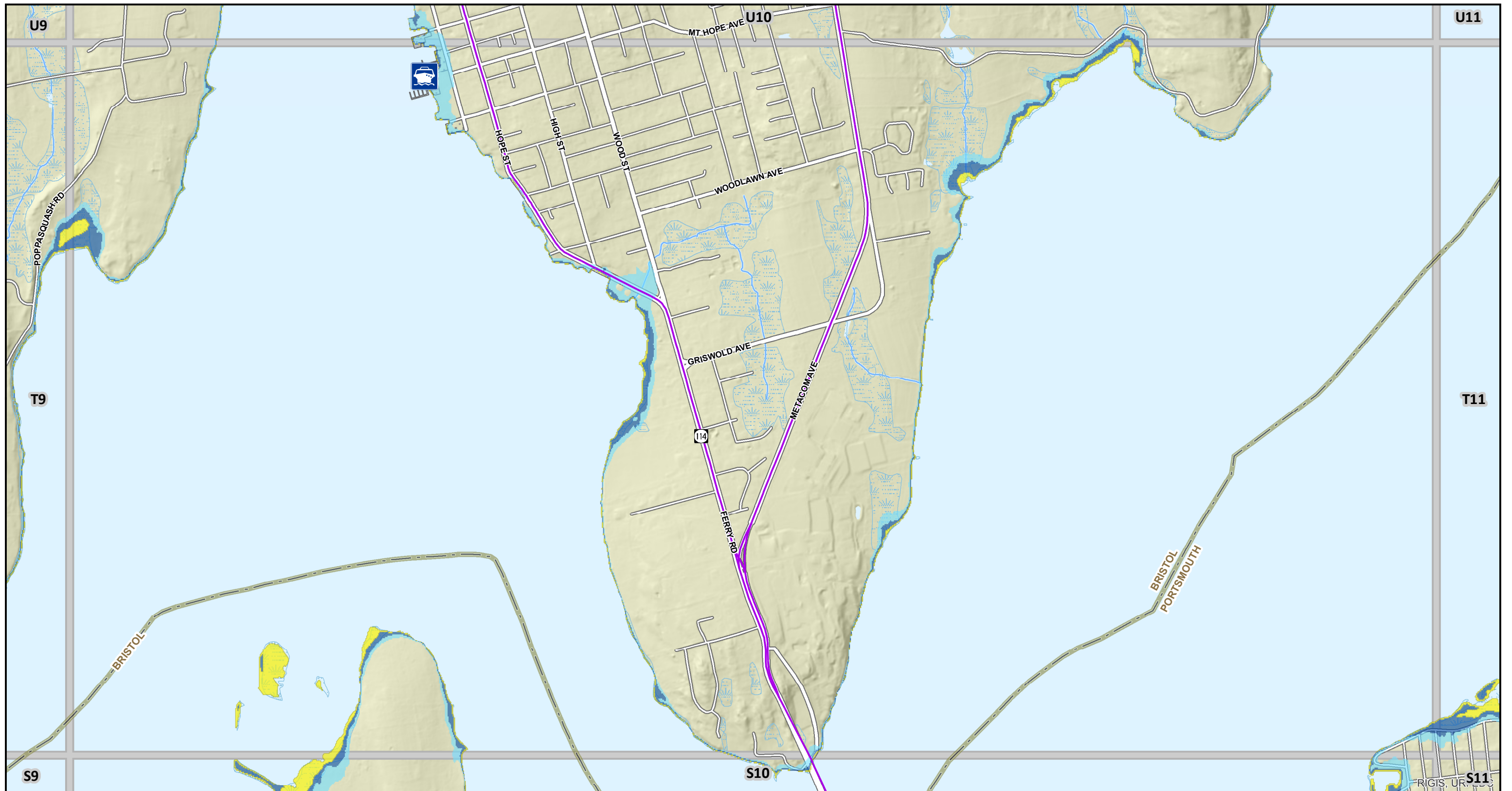
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**Rhode Island Sea Level Rise: Impacts on Transportation Assets**

**Portsmouth & Bristol**

**MAP T9**



**Map Legend**

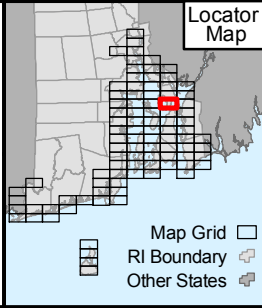
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |                        |                                      |                           |
|------------------------|--------------------------------------|---------------------------|
| <b>SLR Inundation*</b> | <b>Transportation Infrastructure</b> | <b>Reference Features</b> |
| 1 Foot                 | Roads                                | Map Atlas Grid            |
| 3 Feet                 | Bus Routes                           | Municipal Boundary        |
| 5 Feet                 | Ports & Harbors                      | Streams                   |
| <b>Intermodal Hubs</b> |                                      | RI Ponds & MHHW**         |
| Ferry                  |                                      | wetland                   |
|                        |                                      | RI Boundary***            |

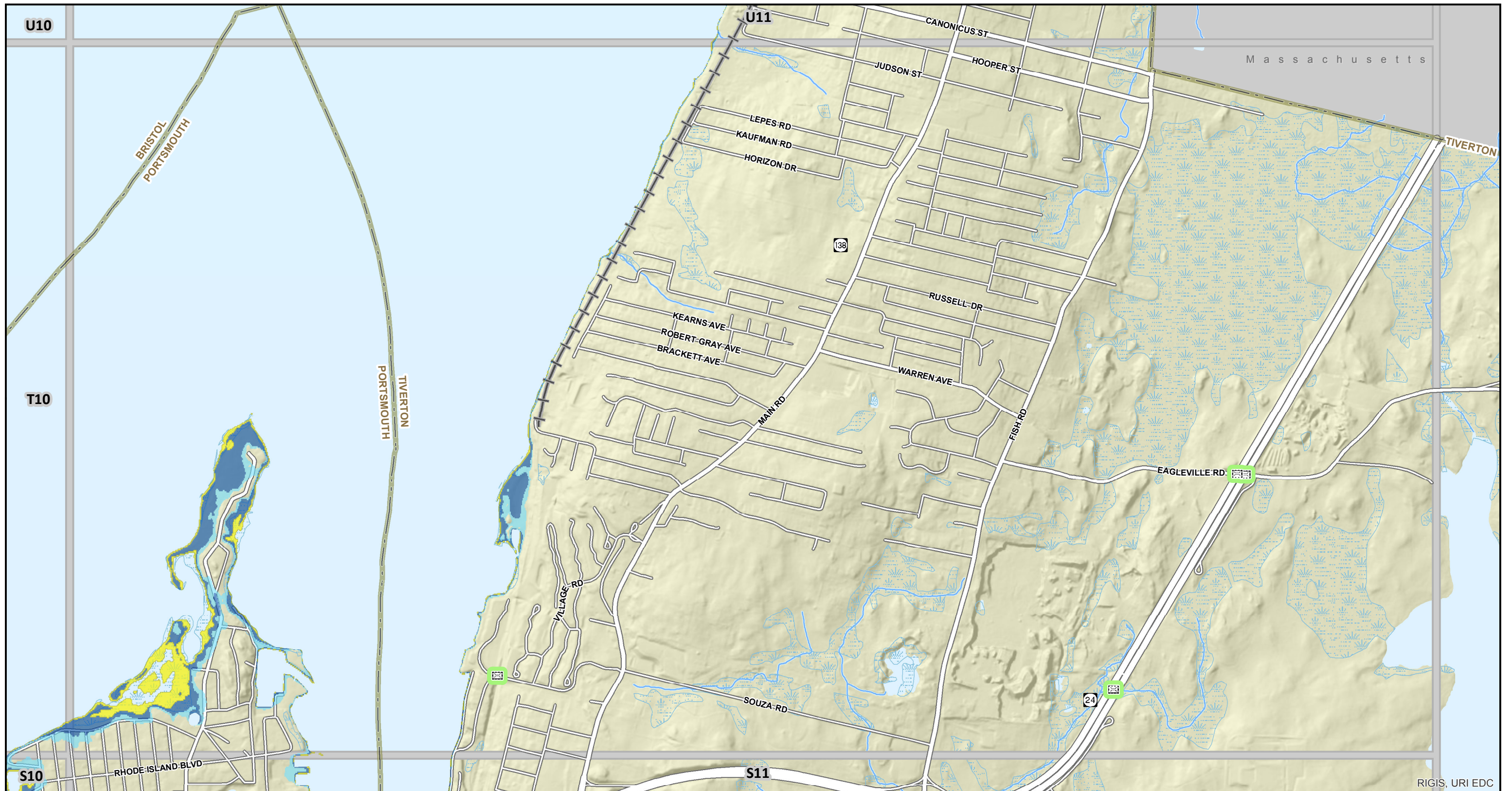
0 0.125 0.25 0.5 Miles

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**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 Portsmouth & Bristol**



RIGIS, URI EDC

**Map Legend**

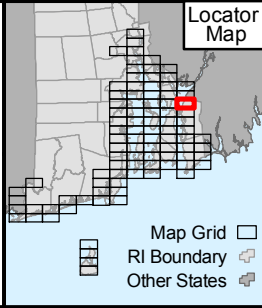
NOTES:  
 \* The Sea Level Rise (SLR) Inundation modified bathtub model does not take into consideration future erosion or storm surge.  
 \*\* Mean Higher High Water  
 \*\*\* Includes Hillshade from USGS 2011 LiDAR

- |   |  |  |   |
|---|--|--|---|
| <p><b>SLR Inundation*</b></p> <ul style="list-style-type: none"> <li> 1 Foot</li> <li> 3 Feet</li> <li> 5 Feet</li> </ul> | <p><b>Transportation Infrastructure</b></p> <ul style="list-style-type: none"> <li> Roads</li> <li> Railroads</li> </ul> | <p><b>Bridges</b></p> <p>Freeboard (FB) Height</p> <ul style="list-style-type: none"> <li> No FB Concern</li> <li> Accessible</li> </ul> | <p><b>Reference Features</b></p> <ul style="list-style-type: none"> <li> Map Atlas Grid</li> <li> Municipal Boundary</li> <li> Streams</li> <li> RI Ponds &amp; MHHW**</li> <li> wetland</li> <li> RI Boundary***</li> <li> Other States</li> </ul> |
|---|--|--|---|



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**Rhode Island Sea Level Rise:  
 Impacts on Transportation Assets  
 Portsmouth & Tiverton**