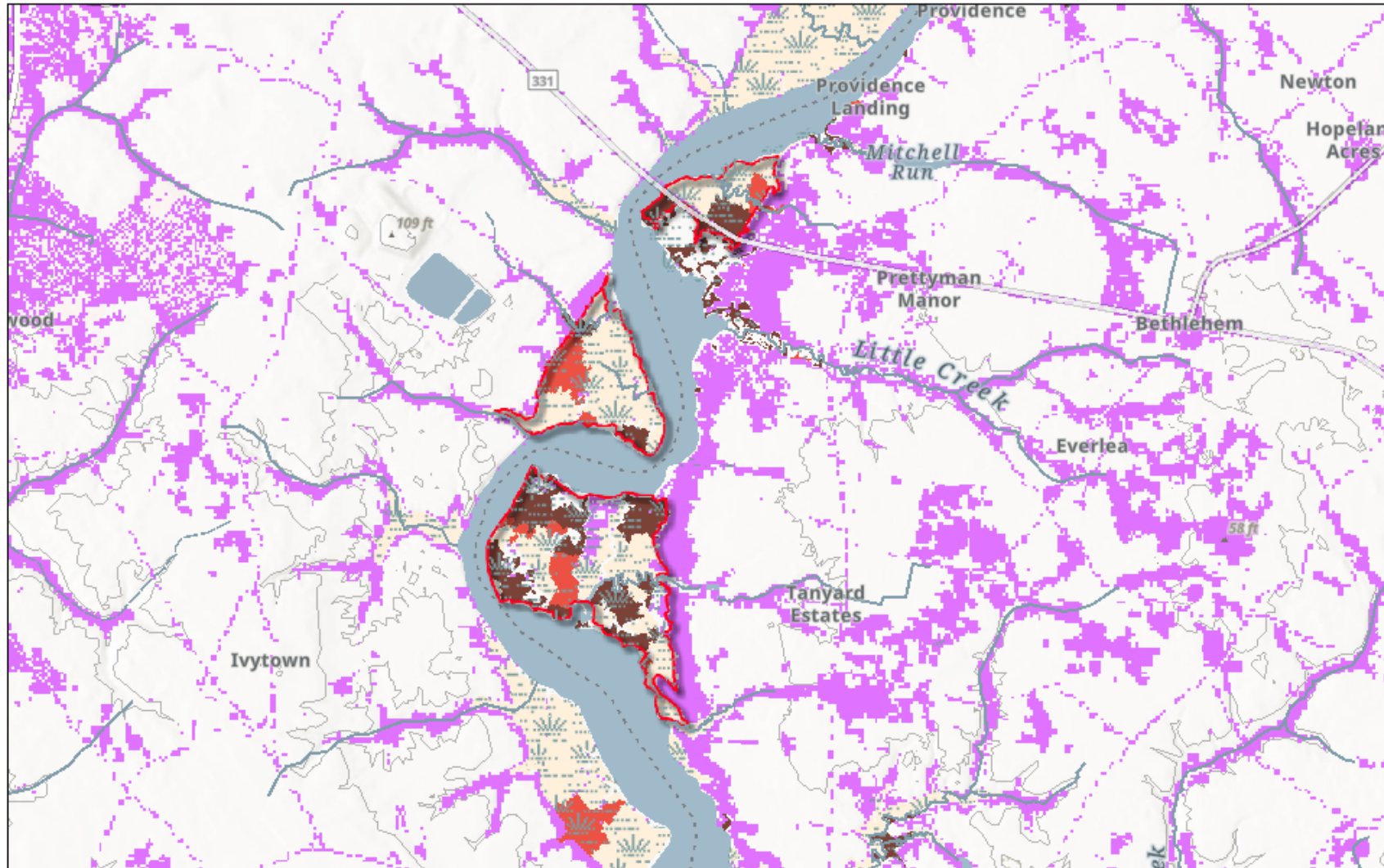


## Marsh Migration (Future 2' Sea Level Rise Scenario) and Marsh Health (UVVR) Upriver



### Considerations:

- What sorts of restoration or protection strategies can be implemented to help these marshes (burgundy and beige) persist
- How can we allow for transition of upland/migration corridors (pink)

UVVR = Unvegetated to Vegetated Ratio

Marsh Migration Scenario represents ~2060 timeframe

10/18/2024

Multiple Models - 2 ft Sea Level Rise

0  
1  
2

UVVR

Healthy/ Stable - Conservation (0 - 0.1)

Stability Threshold (0.1 - 0.15)

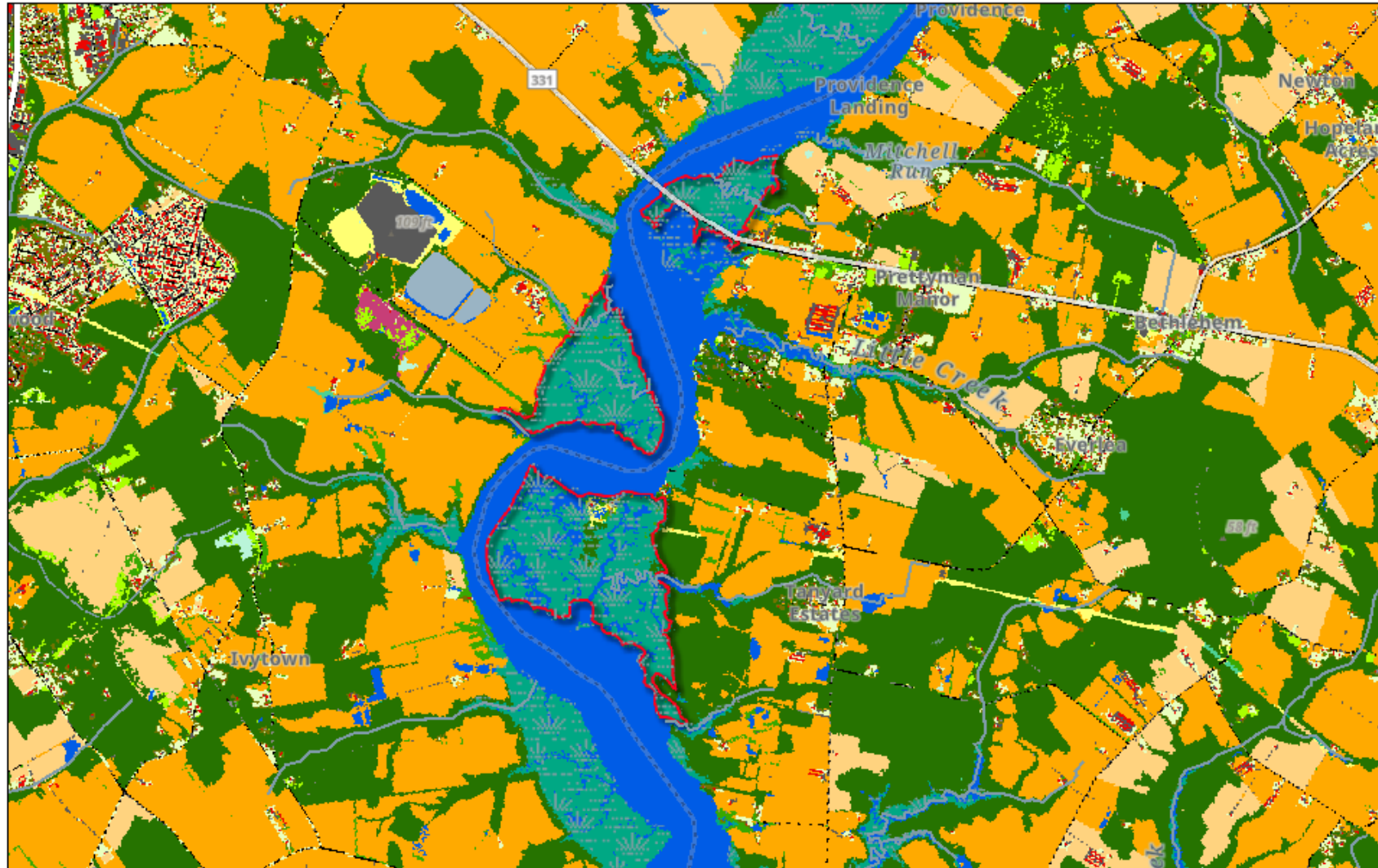
Less Healthy/ Not Stable- Restoration (> 0.15)

World Hillshade

0 0.4 0.8 1.6 mi  
0 0.5 1 2 km

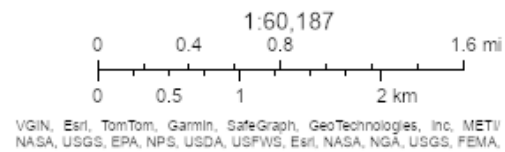
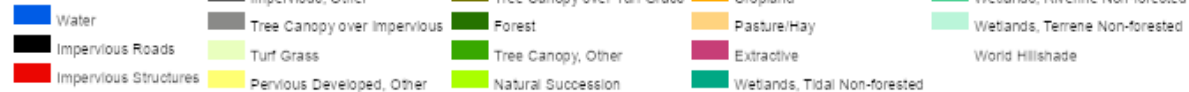
VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/  
NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS, FEMA,

## Land-Use Upriver



10/18/2024

Land Use 2017/18

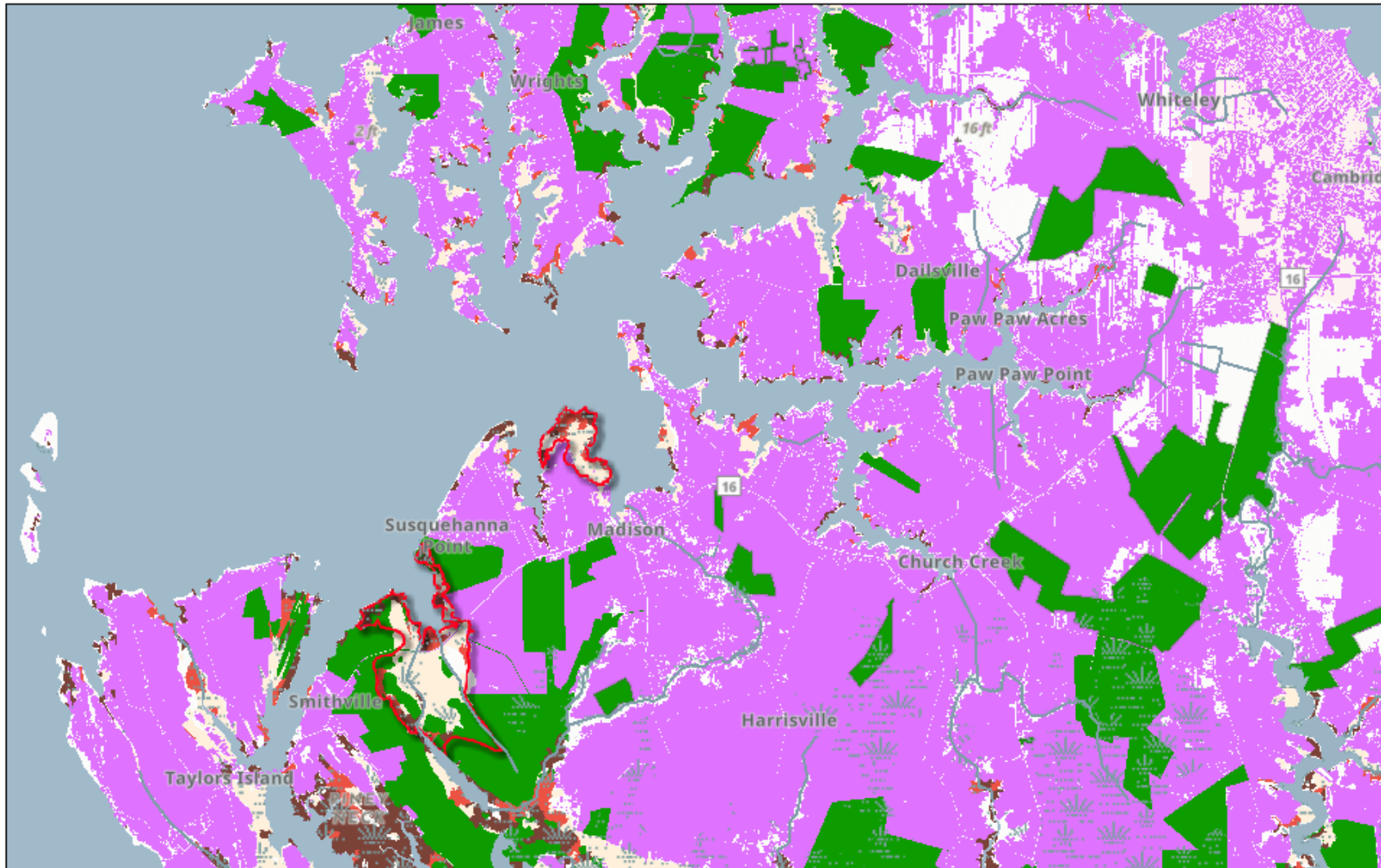


### Considerations:

- What sorts of land-use are adjacent to these marsh complexes
- How to approach facilitating land transition on agricultural lands



## Marsh Migration (Future 2' Sea Level Rise Scenario), Marsh Health (UVVR), and Protected Lands Downriver



### Considerations:

- Where are protected lands (green) in relation to marshes
  - Provide opportunities for restoration of degraded marshes (burgundy)
- Where are protected lands in relation to marsh migration corridors (pink)
  - Provide opportunities to facilitate marsh migration of healthy marshes (beige) in the future

UVVR = Unvegetated to Vegetated Ratio

Marsh Migration Scenario represents ~2060 timeframe

10/18/2024

UVVR

Healthy/ Stable - Conservation (0 - 0.1)

Stability Threshold (0.1 - 0.15)

Less Healthy/ Not Stable- Restoration (> 0.15)

MD DNR Owned Lands and Conservation Easements

MD Environmental Trust Easements

MD Protected Federal Lands

Multiple Models - 2 ft Sea Level Rise

0

1

2

3

World Hillshade

1:120,373

0 0.75 1.5 3 mi  
0 1.25 2.5 5 km

VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/ NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS,

## Land Use Downriver



10/18/2024

Land Use 2017/18

Water

Impervious Roads

Impervious Structures

Impervious, Other

Tree Canopy over Impervious

Turf Grass

Pervious Developed, Other

Tree Canopy over Turf Grass

Forest

Tree Canopy, Other

Harvested Forest

Natural Succession

Cropland

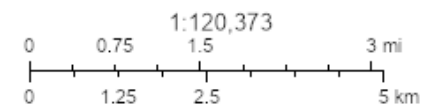
Pasture/Hay

Wetlands, Tidal Non-forested

Wetlands, Riverine Non-forested

Wetlands, Terrene Non-forested

World Hillshade



VGIN, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/  
NASA, USGS, EPA, NPS, USDA, USFWS, Esri, NASA, NGA, USGS,

### Considerations:

- What sorts of land-use are adjacent to these marsh complexes
- How to approach facilitating land transition on agricultural lands
- How to approach protecting undeveloped lands to allow for marsh migration