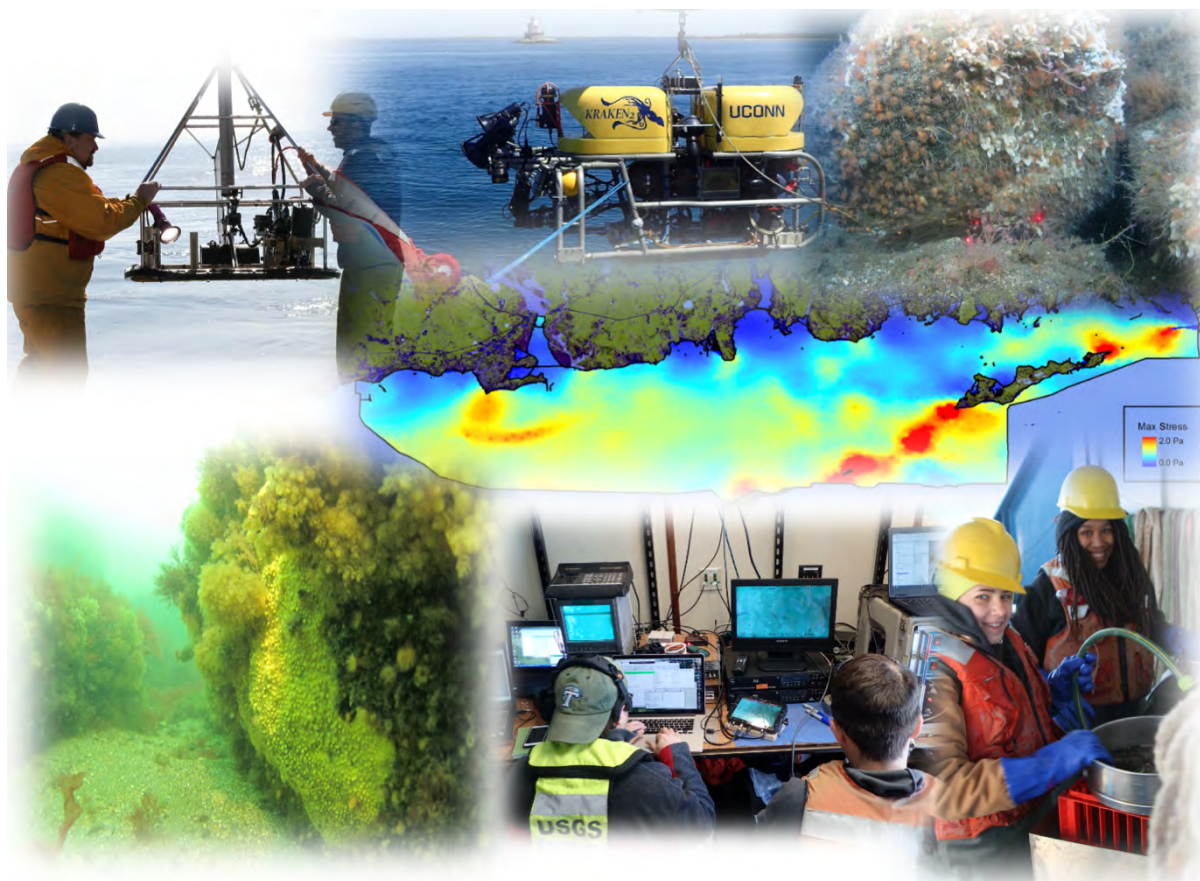


The Long Island Sound Habitat Mapping Initiative Phase II – Eastern Long Island Sound



Final Report: Appendices

Submitted by:
The Long Island Sound Mapping and Research Collaborative
(LISMaRC)

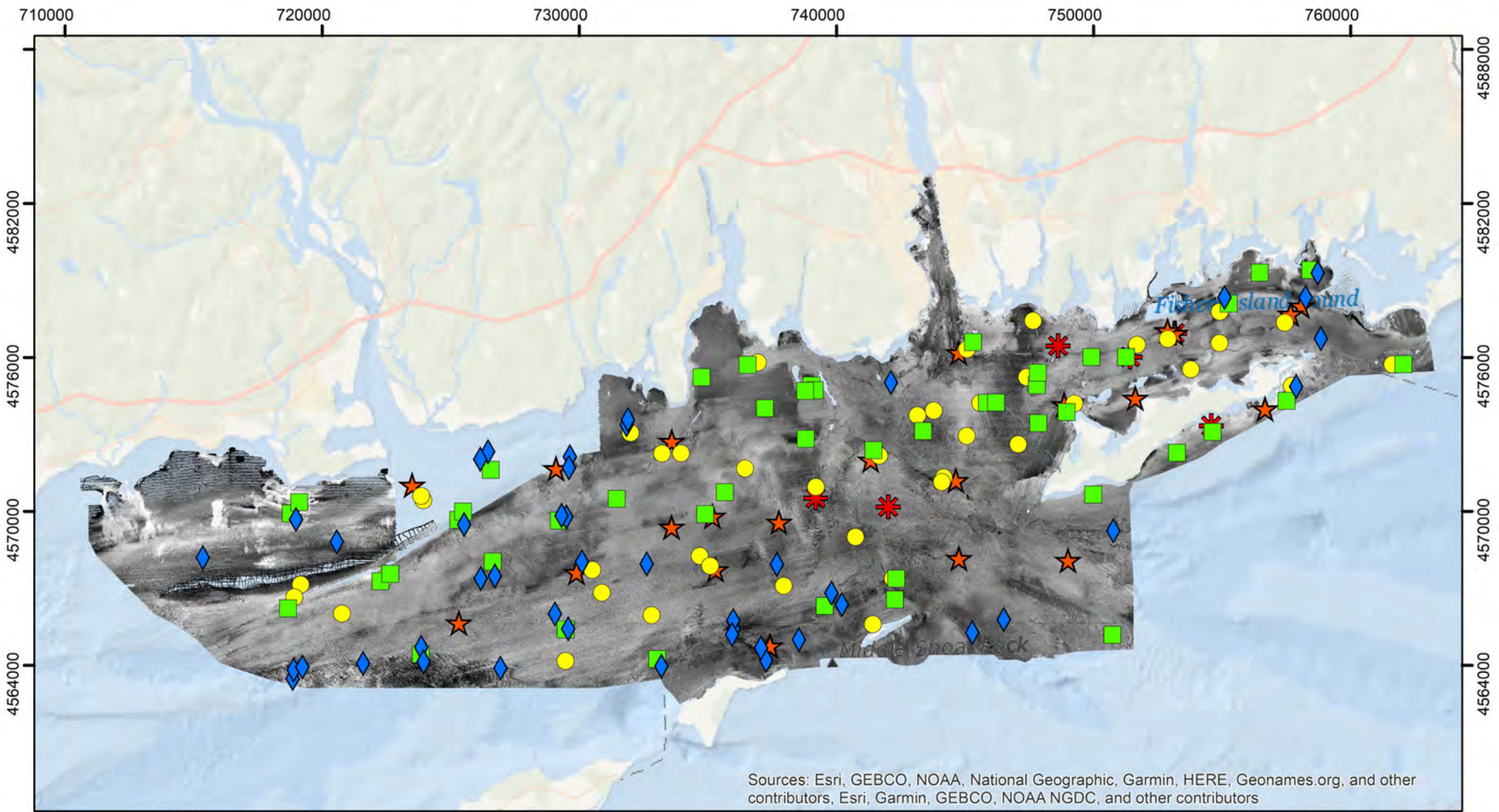
August 27, 2021
Revised June 10, 2022



Appendix 1-4: Ecological Characterization

Appendix 1-4-1 Maps depicting infaunal community characteristics, community types, and the 10 most abundant taxa found are presented with both the backscatter mosaic and the acoustic patch types.

Appendix 1-4-2 Maps depicting epifaunal sample locations, diversity, community types, and abundance of notable taxa and biogenic features are presented with both the backscatter mosaic and the acoustic patch types.



LIS Cable Fund Mapping Phase 2: Infaunal Total Abundance

Infaunal Total Abundance

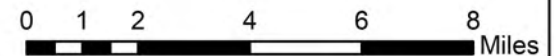
- ◆ 1 - 88
- 89 - 176
- 177 - 321
- ★ 322 - 550
- ✱ 551 - 967

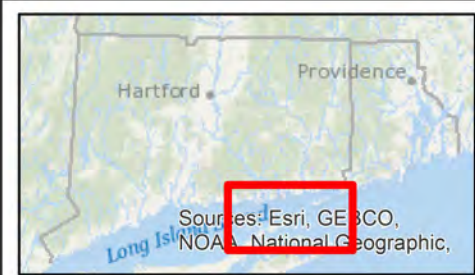
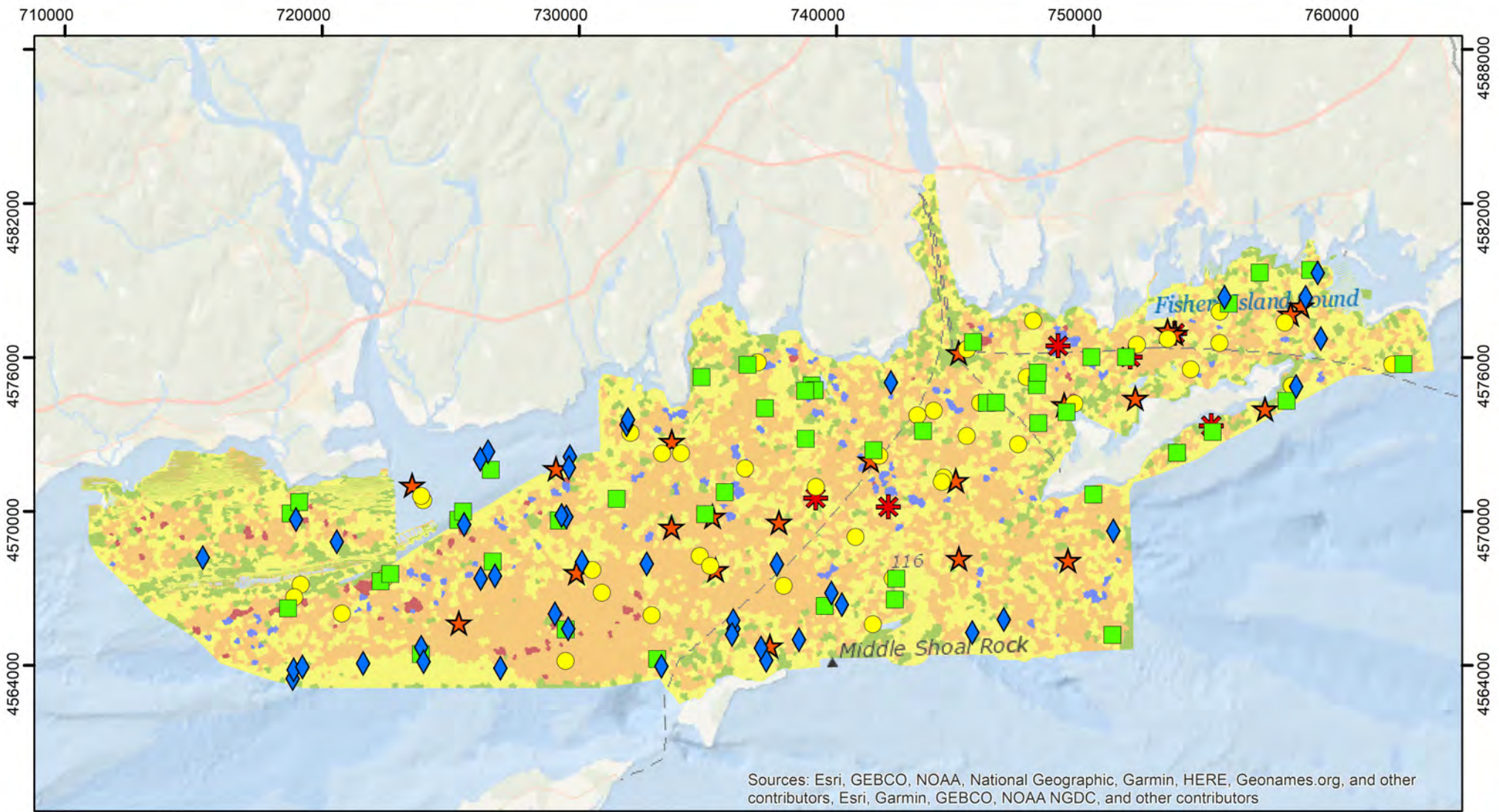


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LIS Cable Fund Mapping Phase 2: Infaunal Total Abundance



Infaunal Total Abundance

- ◆ 1 - 88
- 89 - 176
- 177 - 321
- ★ 322 - 550
- ✱ 551 - 967

eCognition Classification

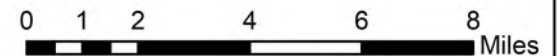
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

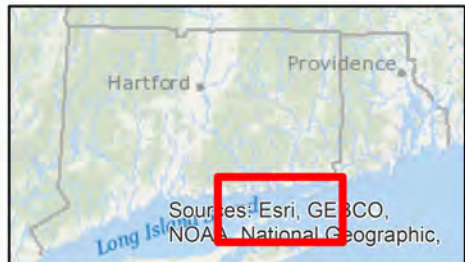
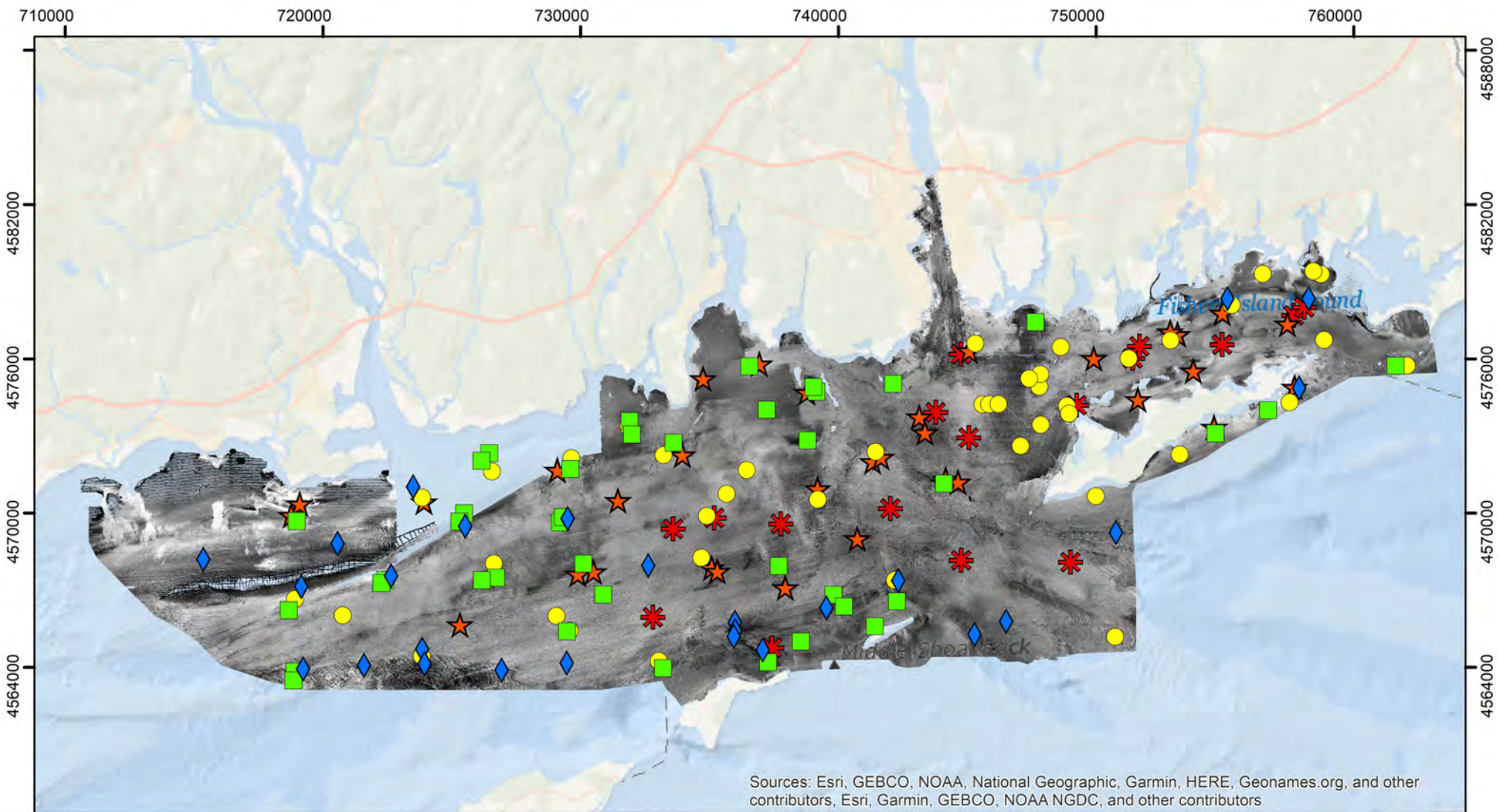


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16
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LIS Cable Fund Mapping Phase 2: Infaunal Taxonomic Richness



Infaunal Taxonomic Richness

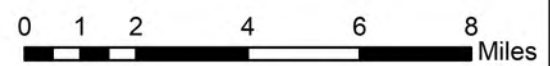
- ◆ 1 - 12
- 13 - 20
- 21 - 29
- ★ 30 - 38
- ✱ 39 - 47

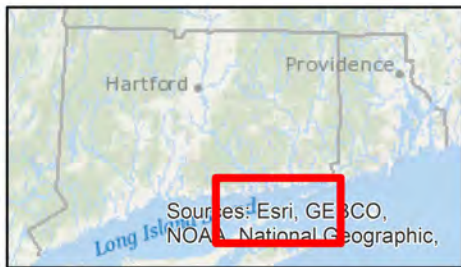
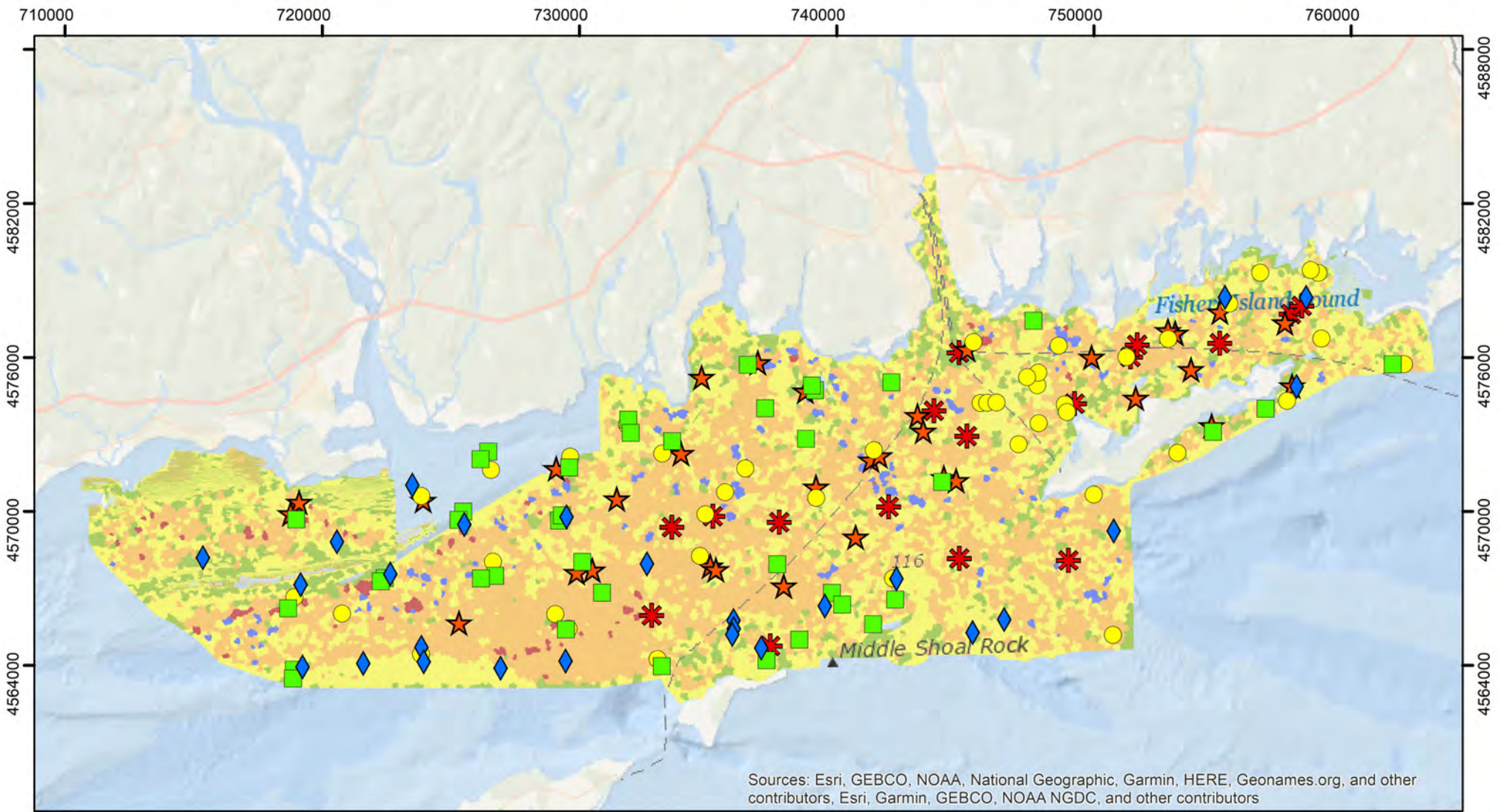


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Infaunal Taxonomic Richness



Infaunal Taxonomic Richness

- ◆ 1 - 12
- 13 - 20
- 21 - 29
- ★ 30 - 38
- ✱ 39 - 47

eCognition Classification

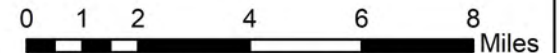
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

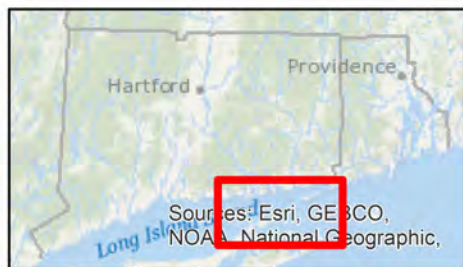
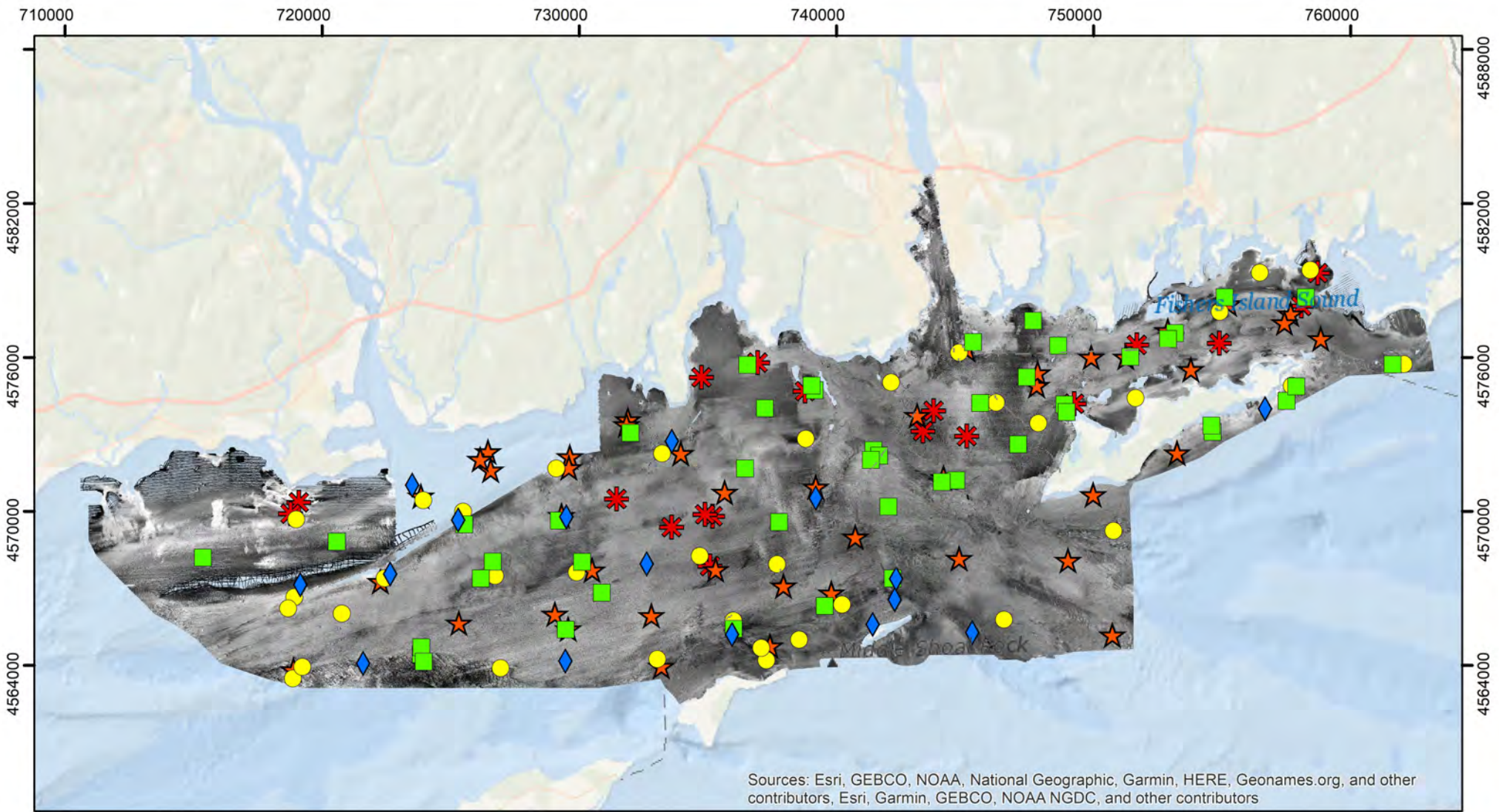


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LIS Cable Fund Mapping Phase 2: Infaunal Diversity (Log H)

Infaunal Diversity (Log H)

- ◆ 0.1 - 0.50
- 0.51 - 0.78
- 0.79 - 0.99
- ★ 1.00 - 1.19
- ✱ 1.20 - 1.40

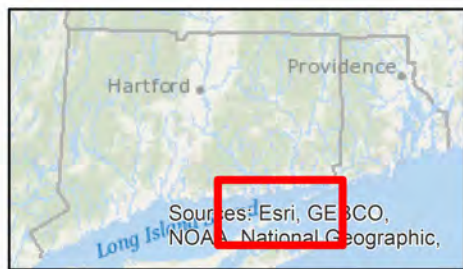
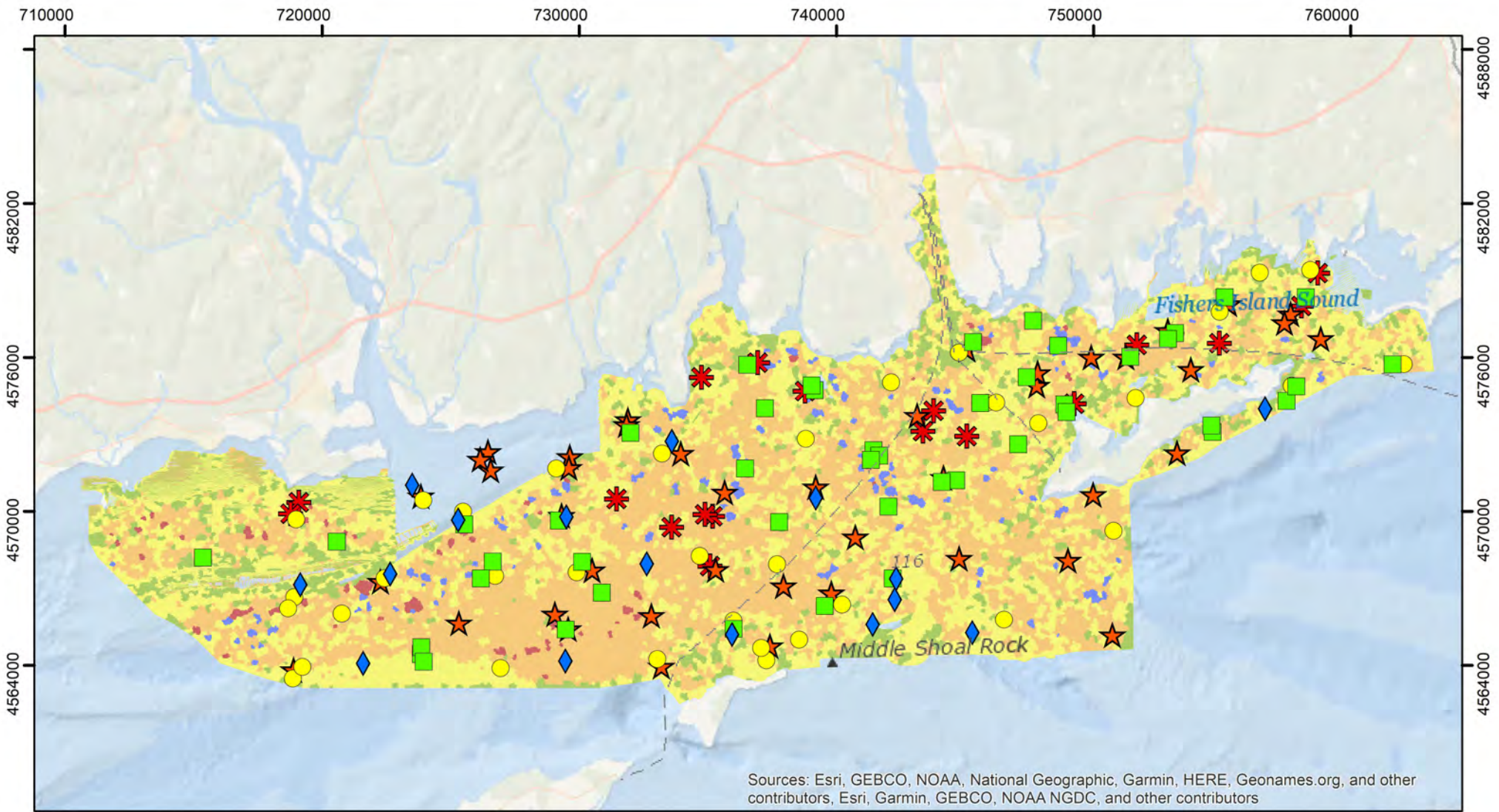


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Infaunal Diversity (Log H)

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eCognition Classification

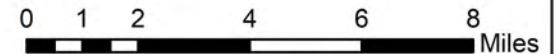
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- B - Silty Sand
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- E - Sandy Gravel

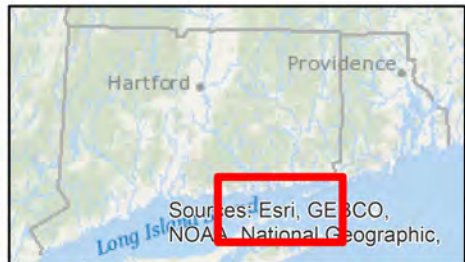
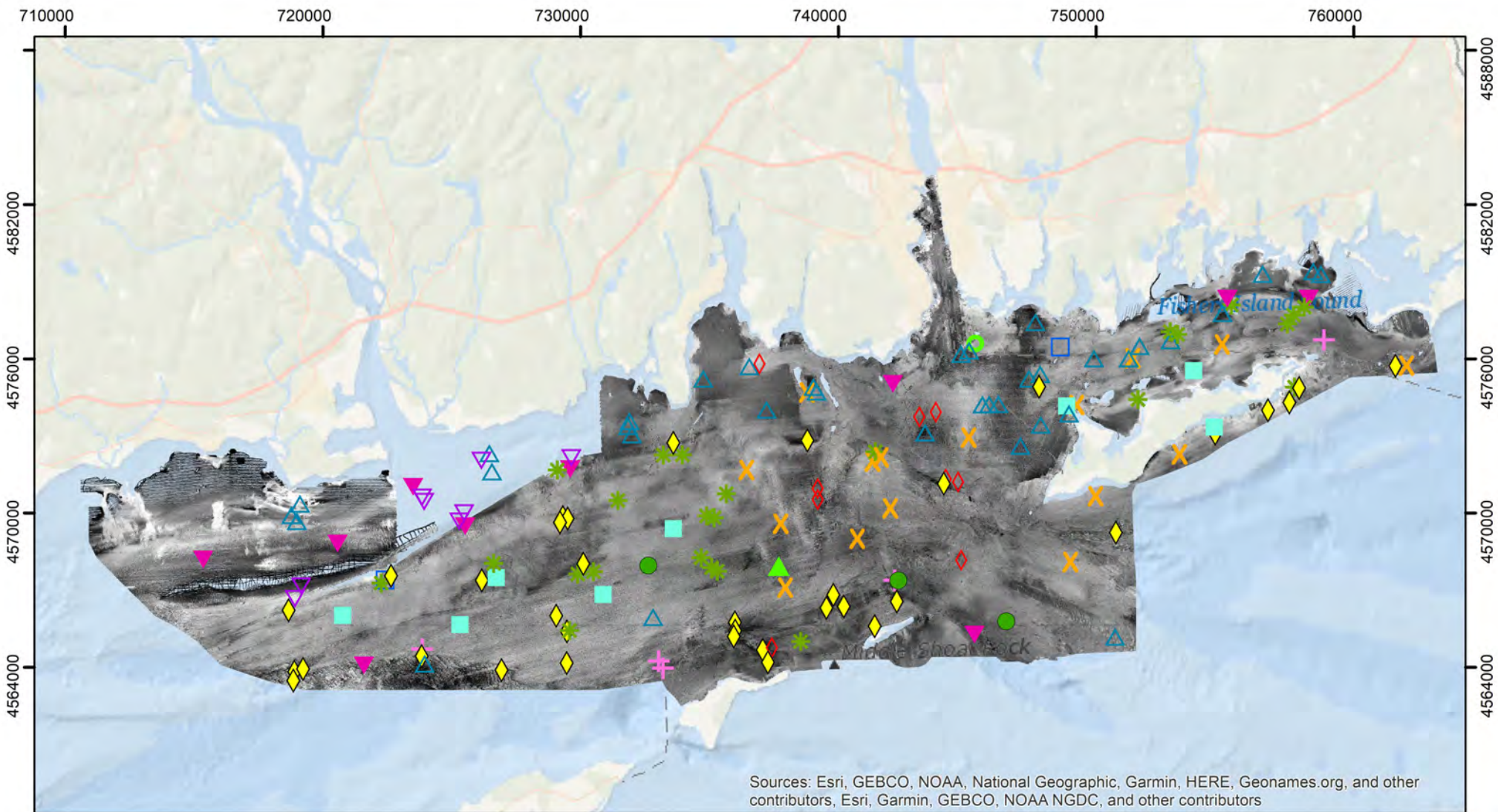


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LIS Cable Fund Mapping Phase 2: Infaunal Community Designation



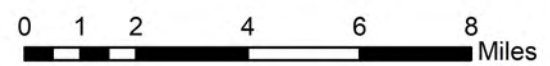
Community Designation					
▲	A	○	E	×	J
●	B	□	F	✱	K
◆	C	■	G	△	L
▽	D	+	H	▽	M
		◇	I		

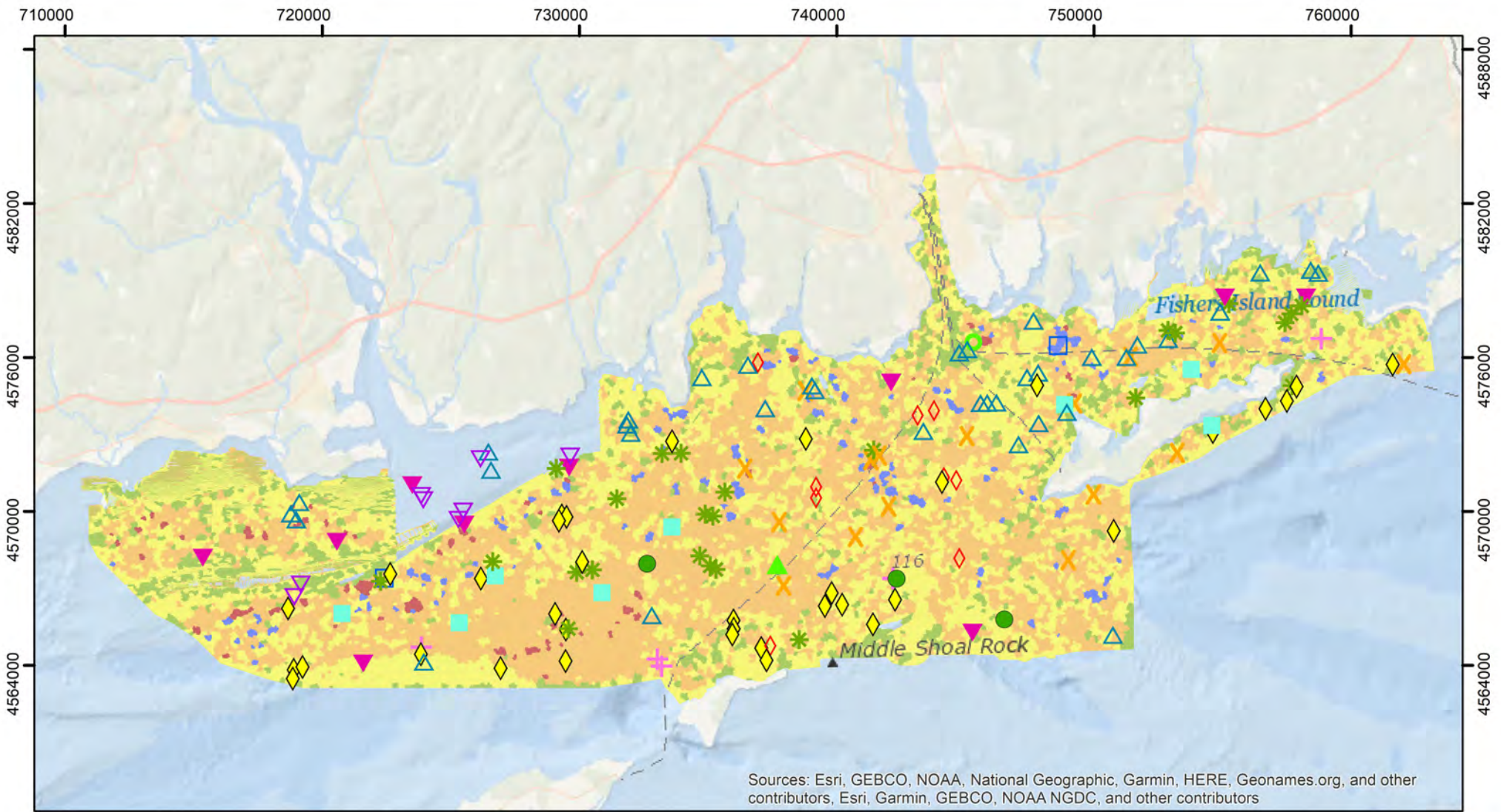


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LIS Cable Fund Mapping Phase 2: Infaunal Community Designation



Community Designation

- ▲ A
- B
- ◆ C
- ▽ D

- E
- F
- G
- ✦ H
- ◇ I
- ✕ J
- ★ K
- △ L
- ▽ M

eCognition Classification

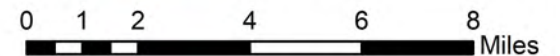
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

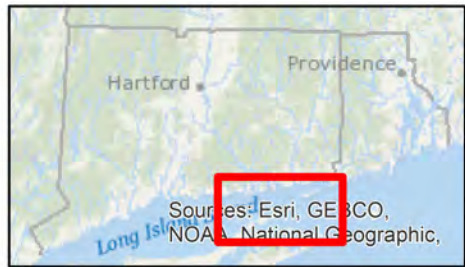
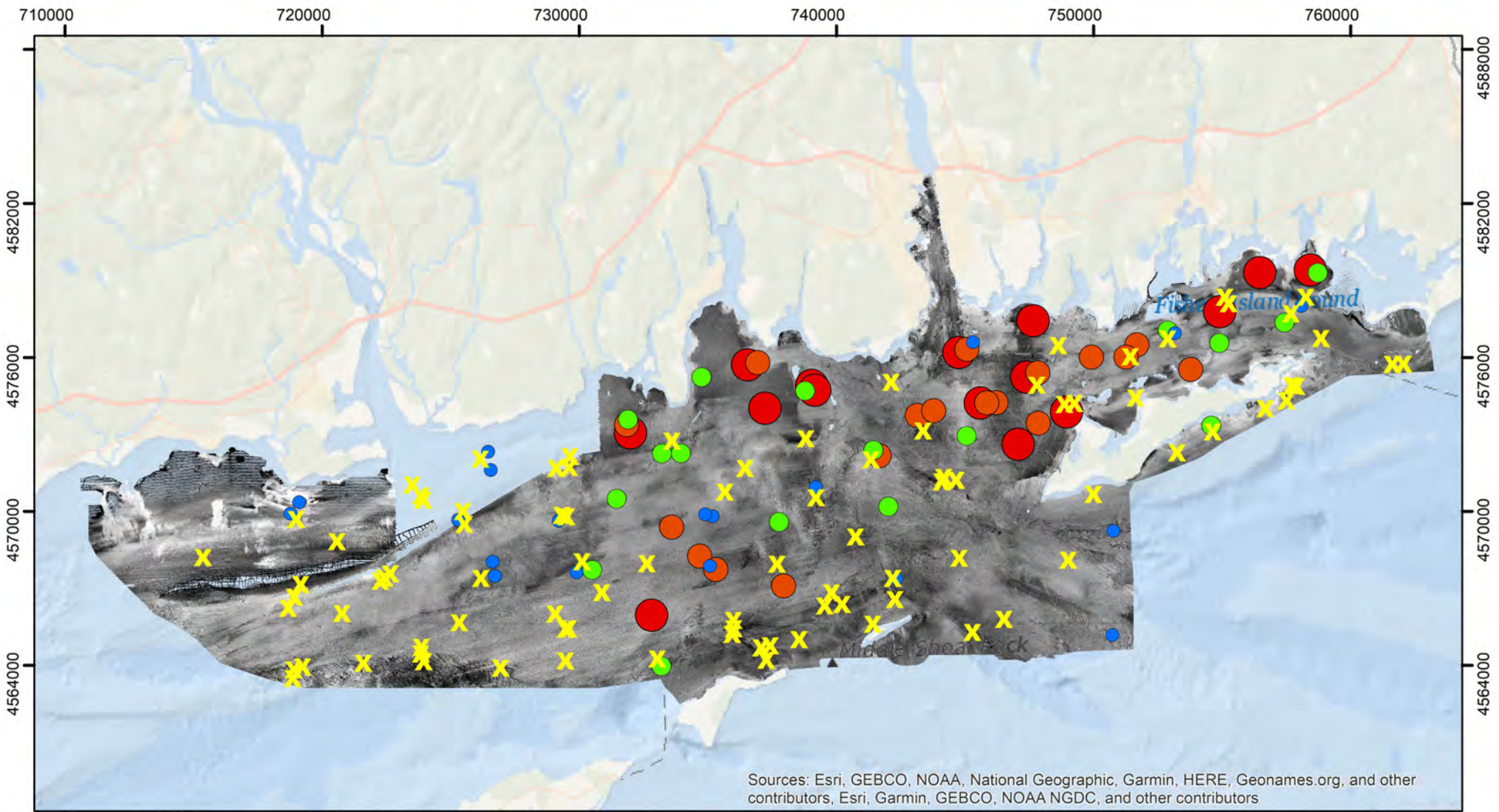


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Ampelisca vadorum* (Amphipod Crustacean)



Ampelisca vadorum

- X 0
- 1 - 4
- 5 - 18
- 19 - 77
- 78 - 235

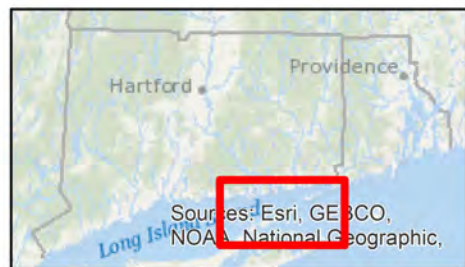
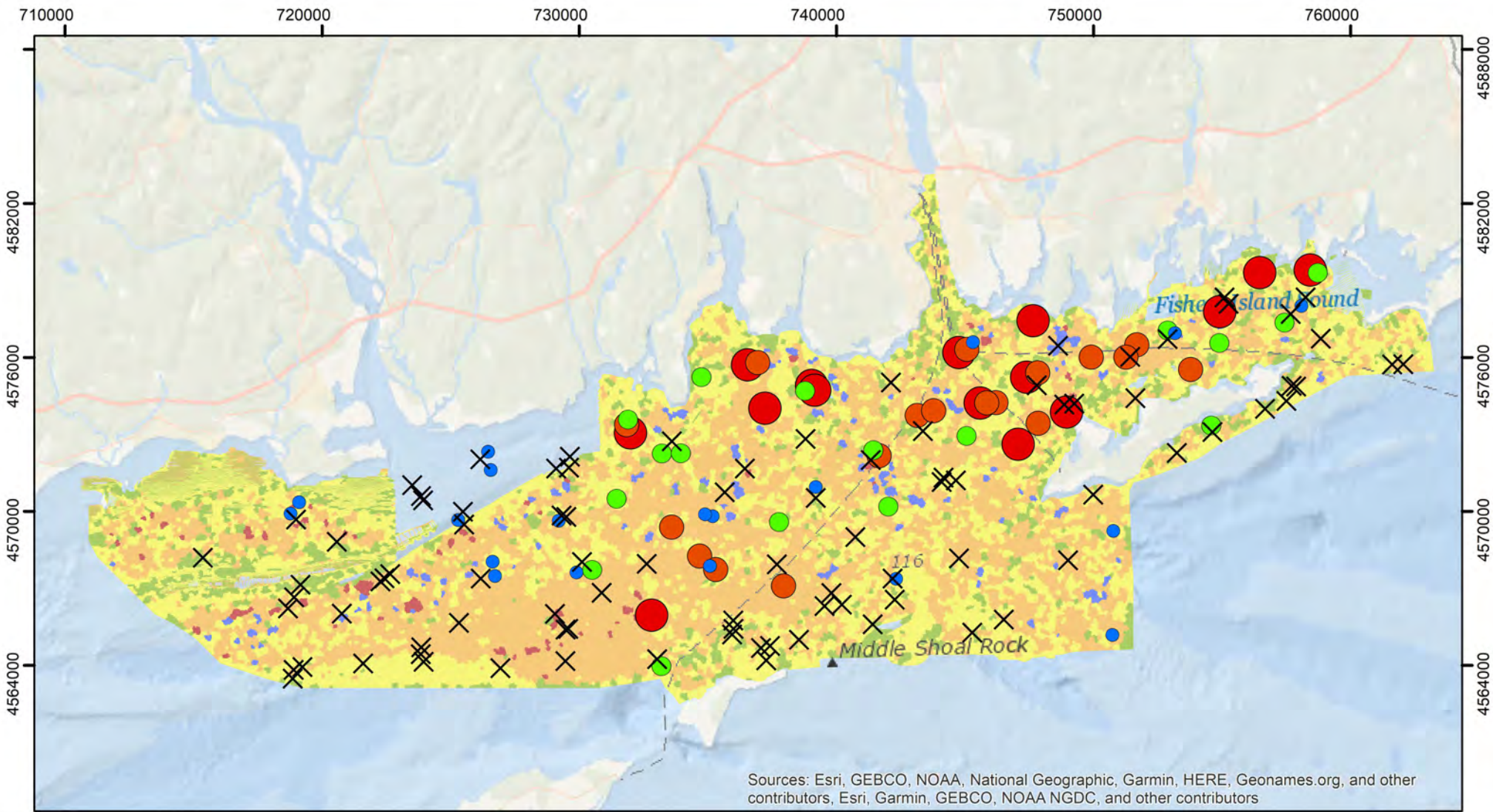


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LIS Cable Fund Mapping Phase 2: *Ampelisca vadorum* (Amphipod Crustacean)



Ampelisca vadorum



eCognition Classification

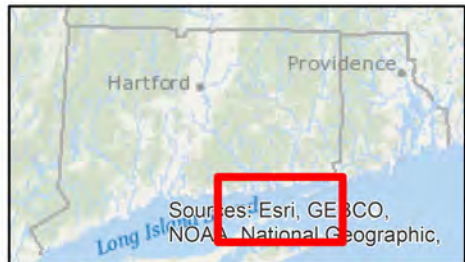
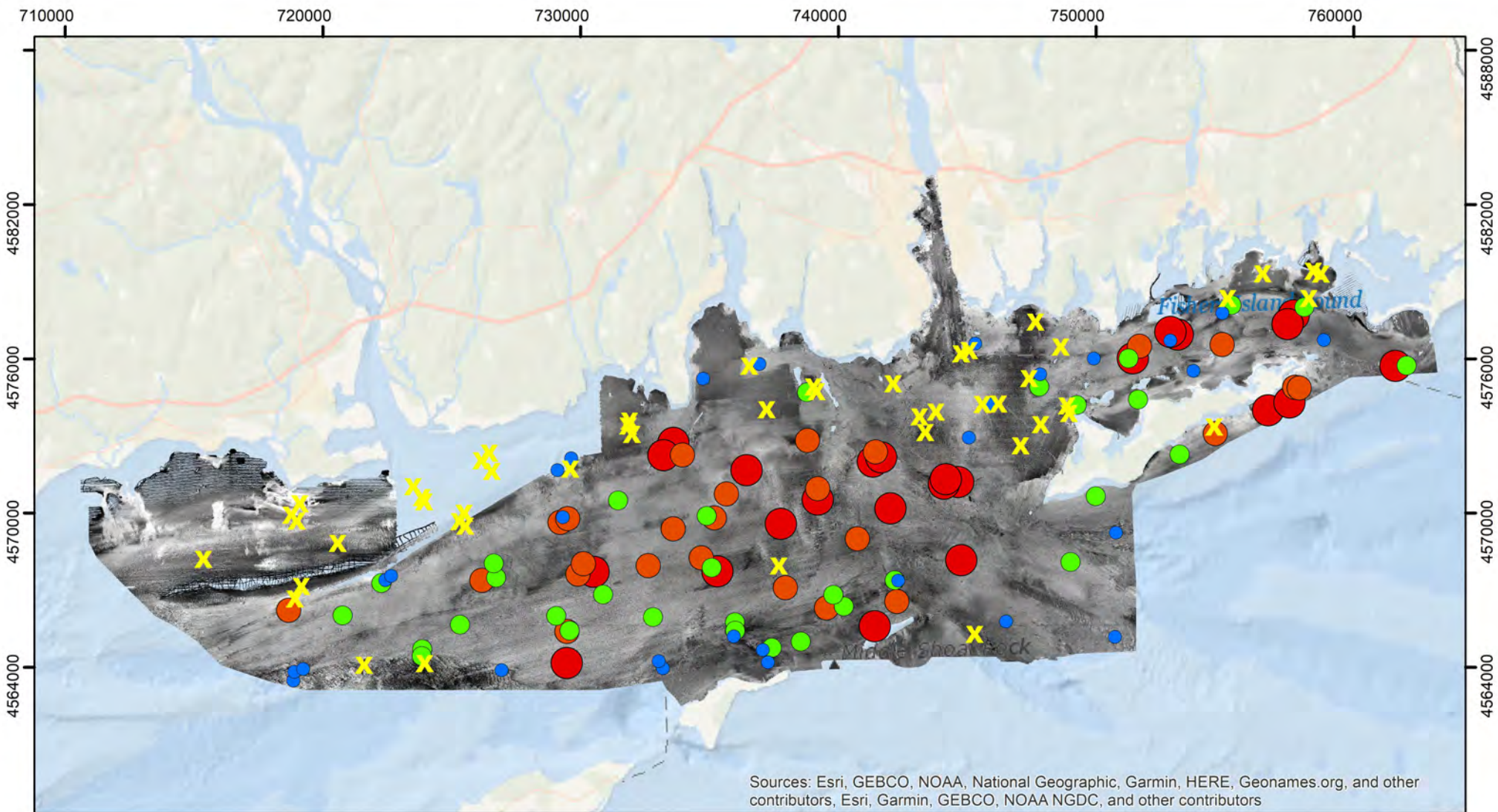


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Astarte* spp (Bivalve Mollusc)



Astarte spp.

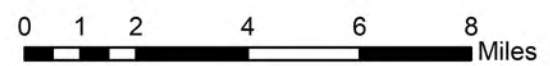
- X 0
- 1 - 7
- 8 - 32
- 33 - 104
- 105 - 577

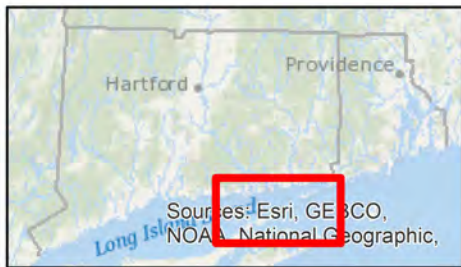
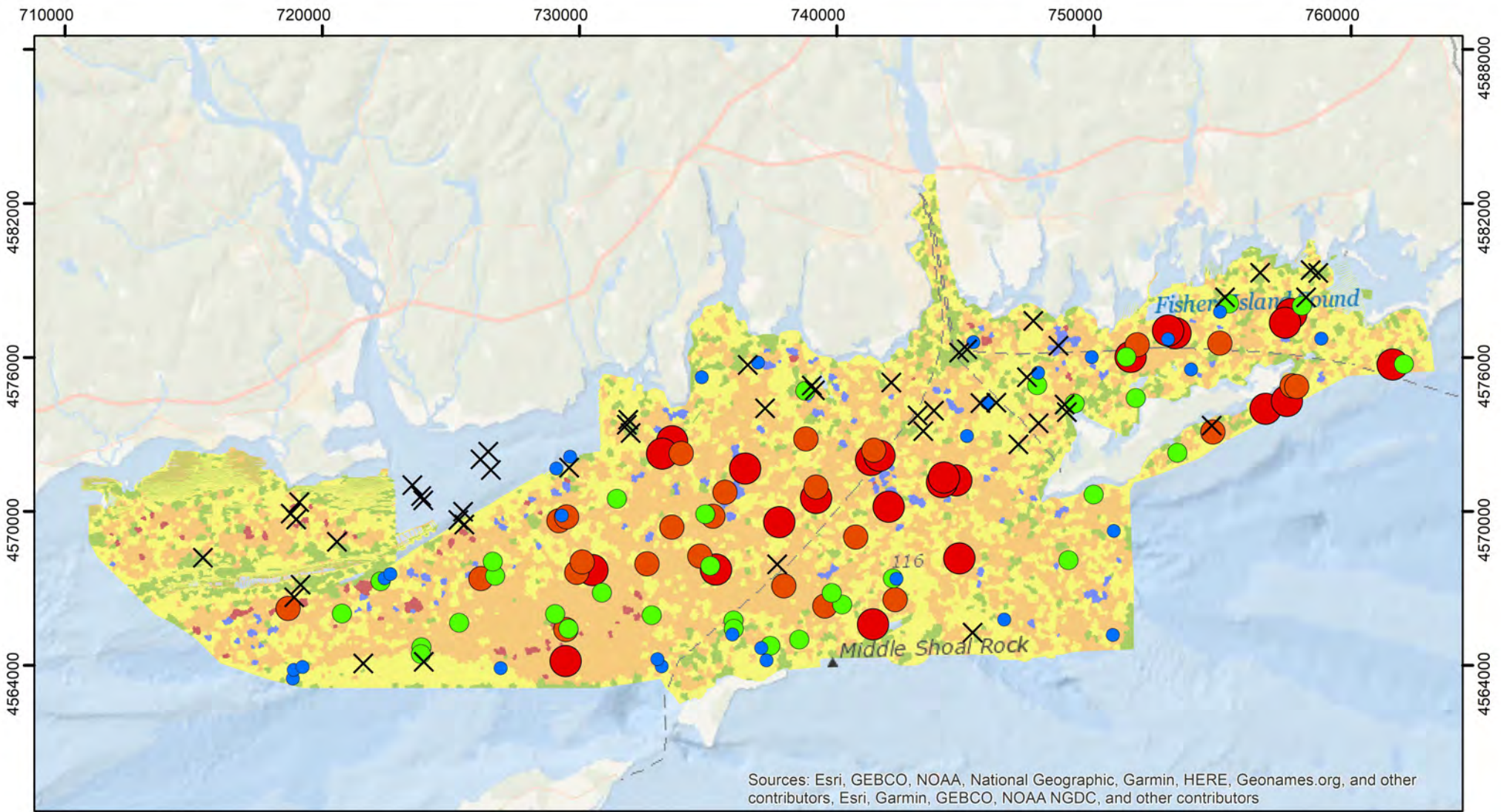


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Astarte* spp (Bivalve Mollusc)



Astarte spp.

- × 0
- 1 - 7
- 8 - 32
- 33 - 104
- 105 - 577

eCognition Classification

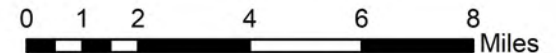
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

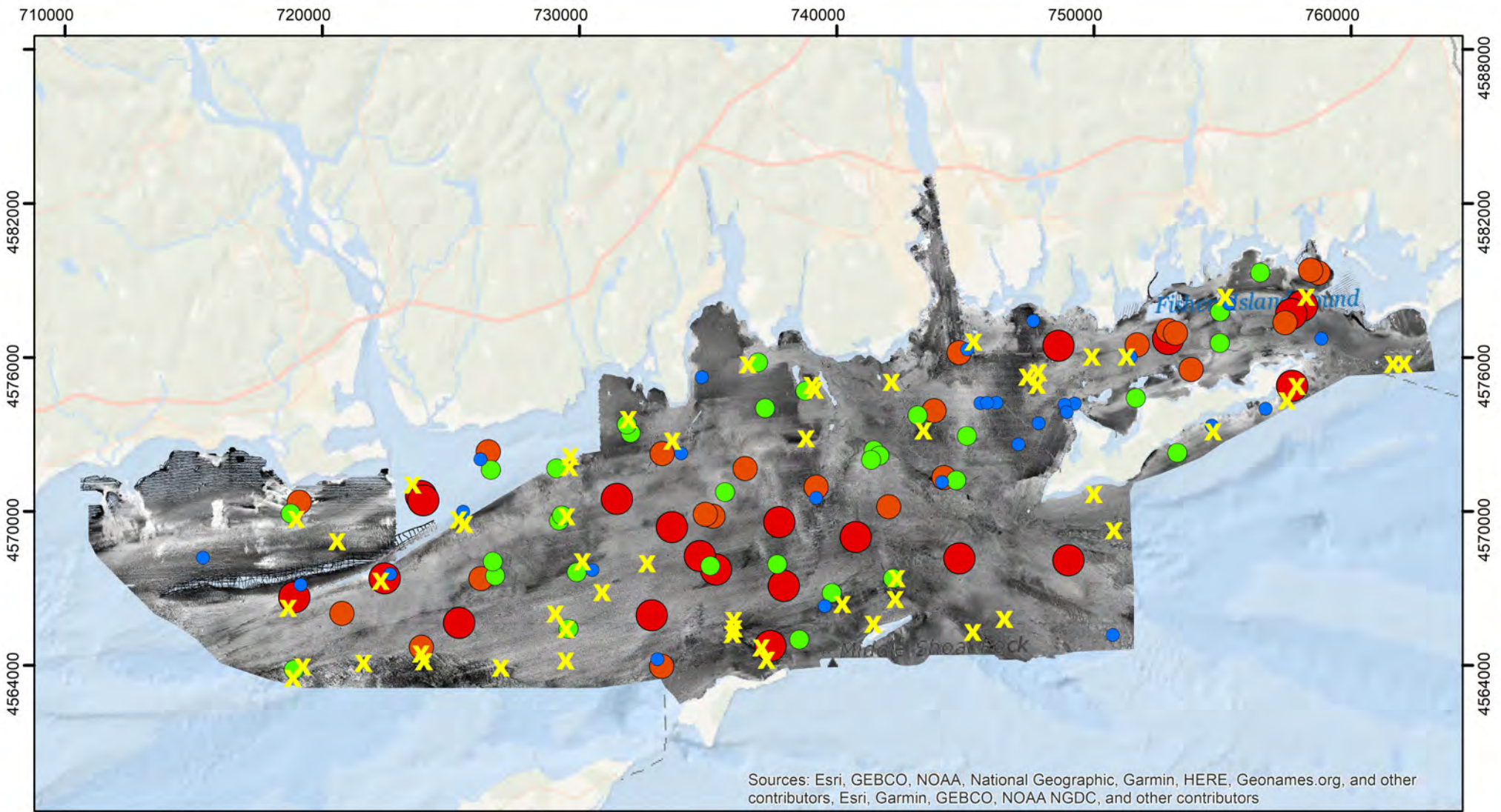


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Corophium* spp. (Amphipod Crustacean)



Corophium spp.

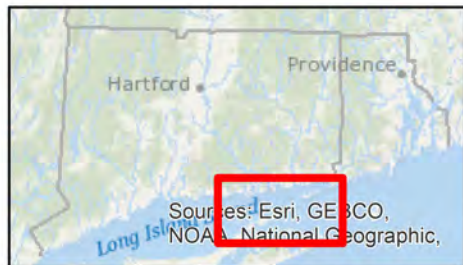
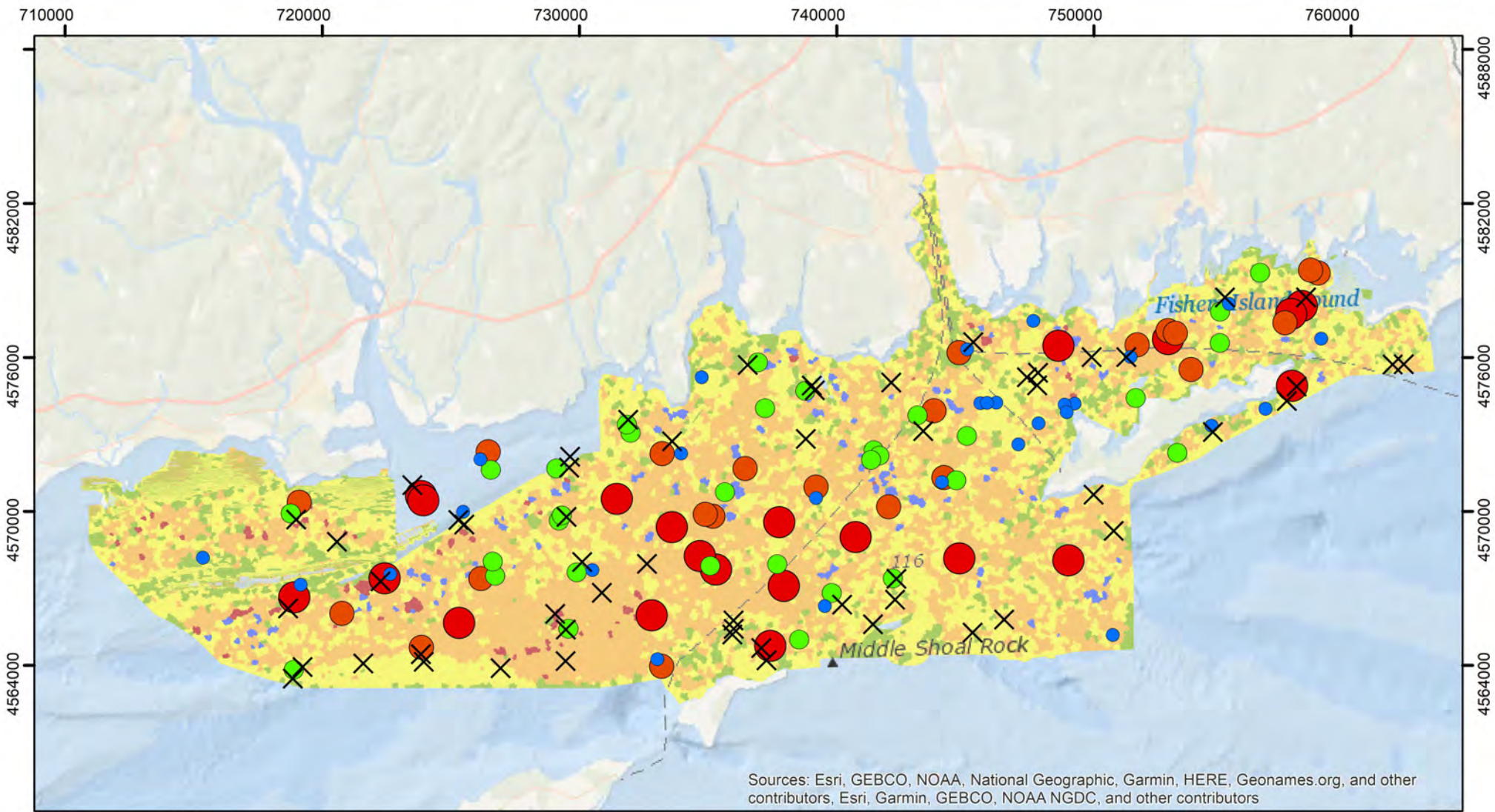


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Corophium spp.* (Amphipod Crustacean)



Corophium spp.

- ✕ 0
- 1 - 2
- 3 - 6
- 7 - 13
- 14 - 194

eCognition Classification

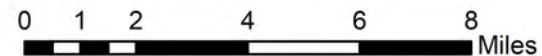
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

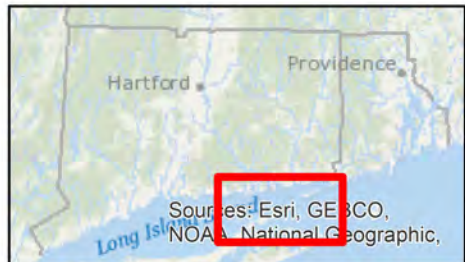
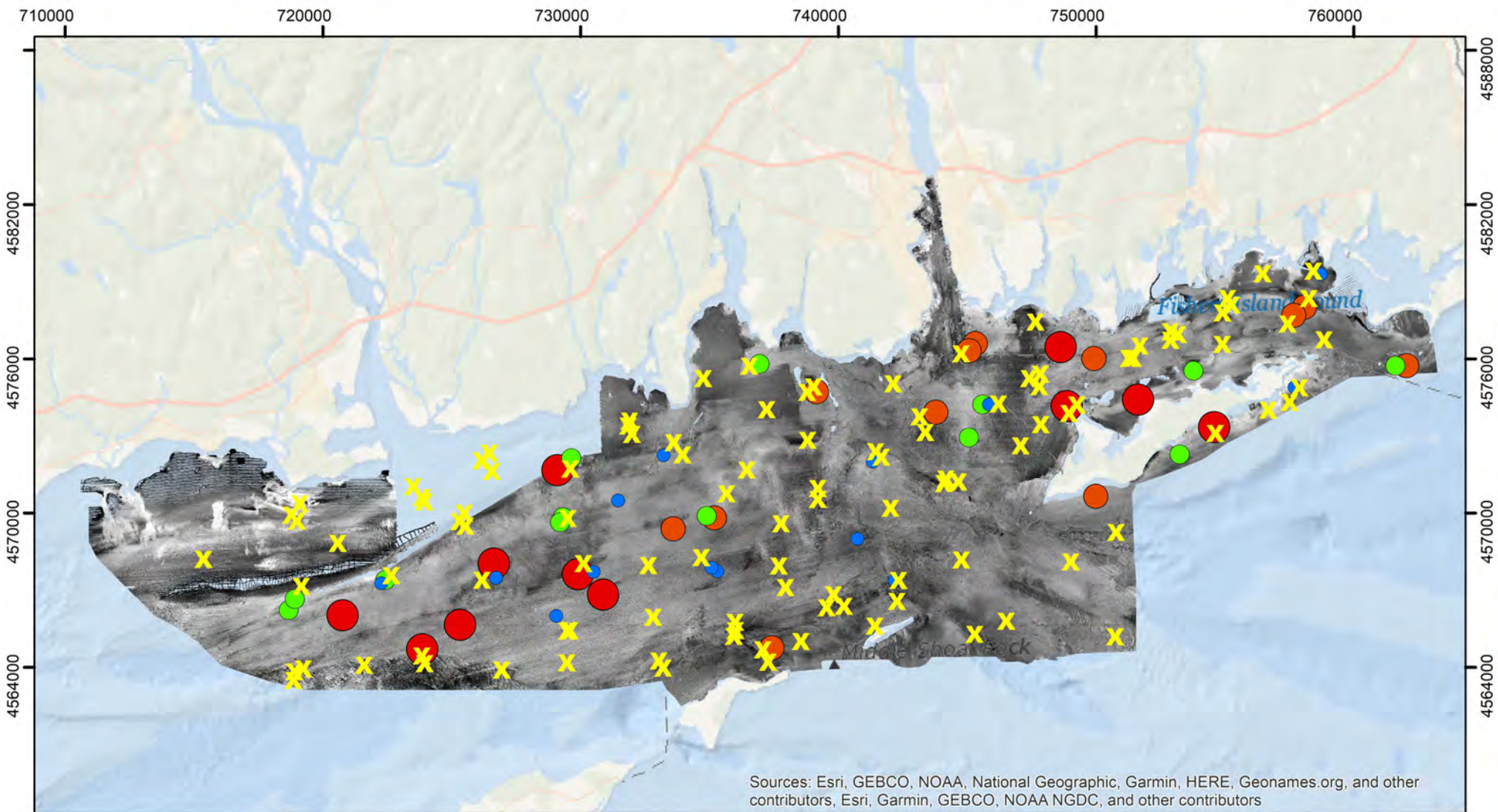


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LIS Cable Fund Mapping Phase 2: *Crepidula fornicata* (Slipper Shell Mollusc)



Crepidula fornicata

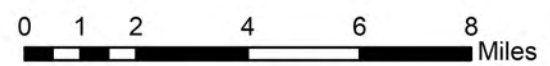
- X 0
- 1 - 4
- 5 - 13
- 14 - 87
- 88 - 473

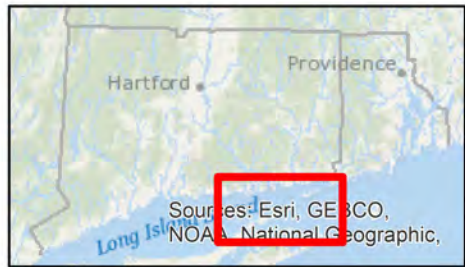
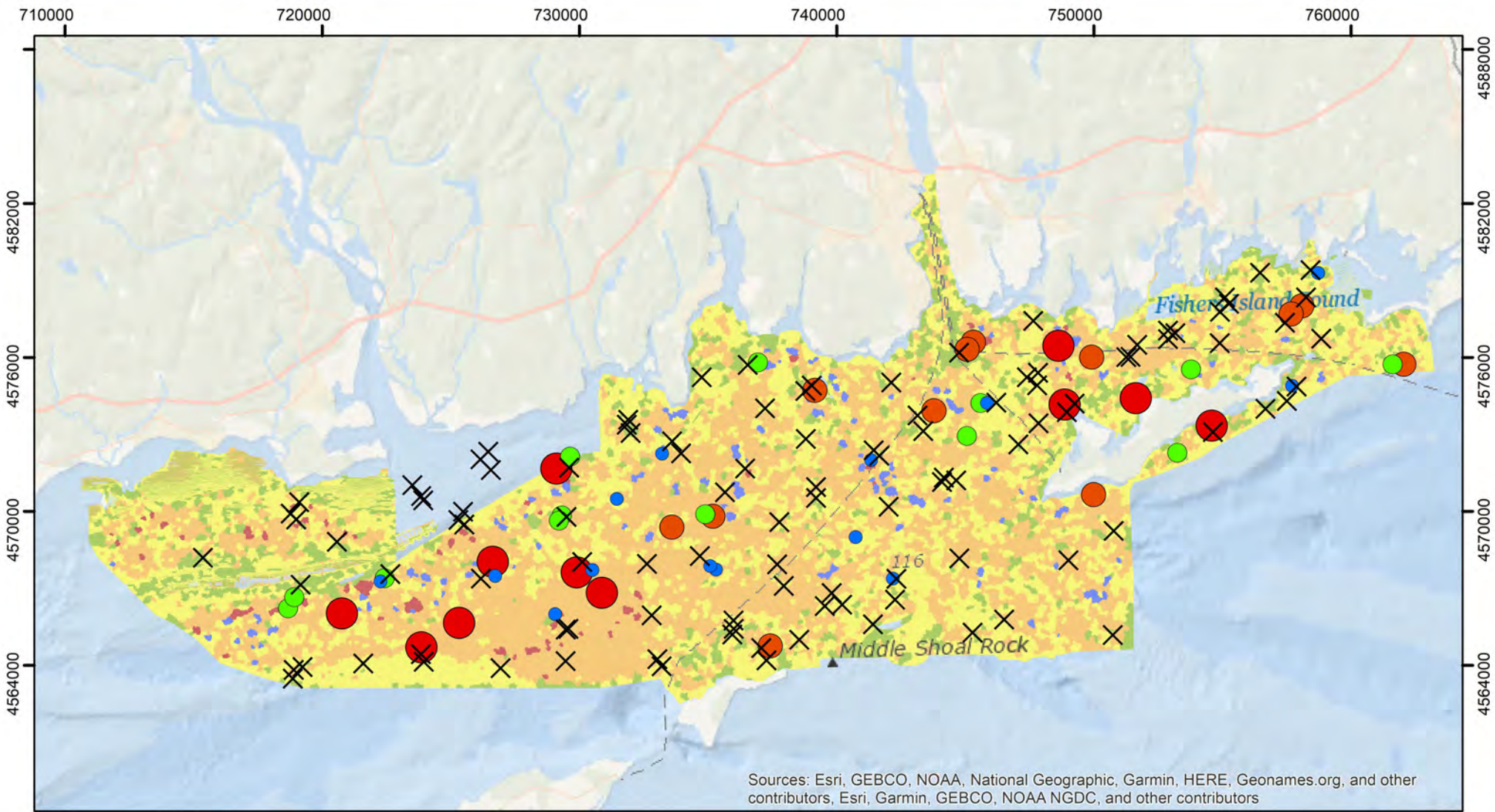


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Crepidula fornicata* (Slipper Shell Mollusc)



Crepidula fornicata

- × 0
- 1 - 4
- 5 - 13
- 14 - 87
- 88 - 473

eCognition Classification

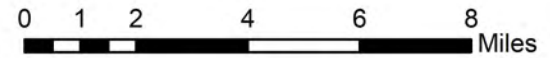
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

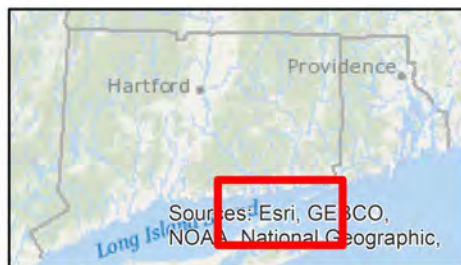
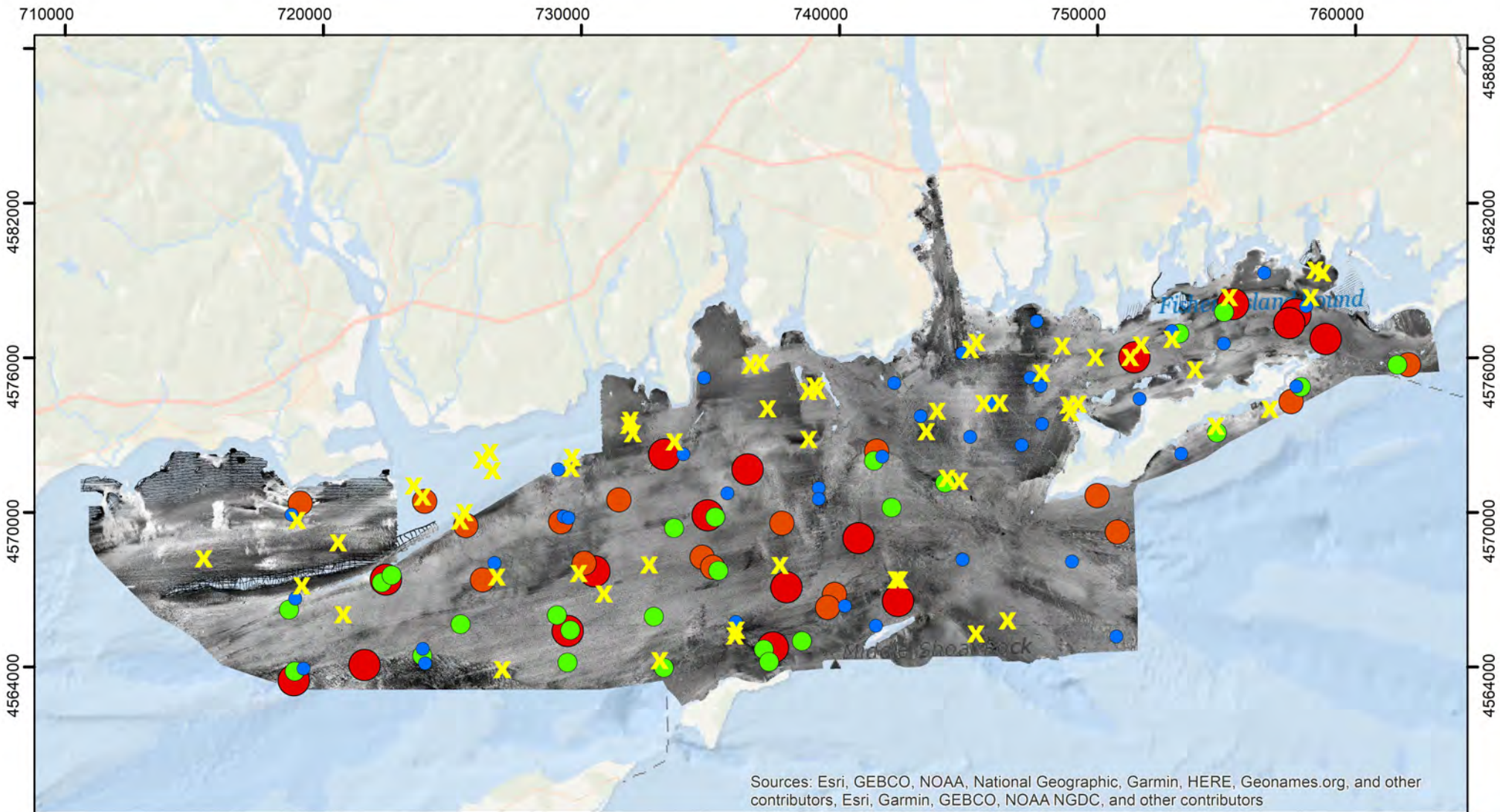


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LIS Cable Fund Mapping Phase 2: *Glycera capitata* (Polychaete Annelid)



Glycera capitata

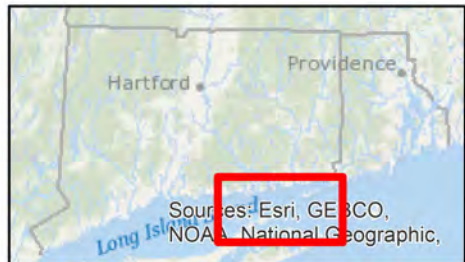
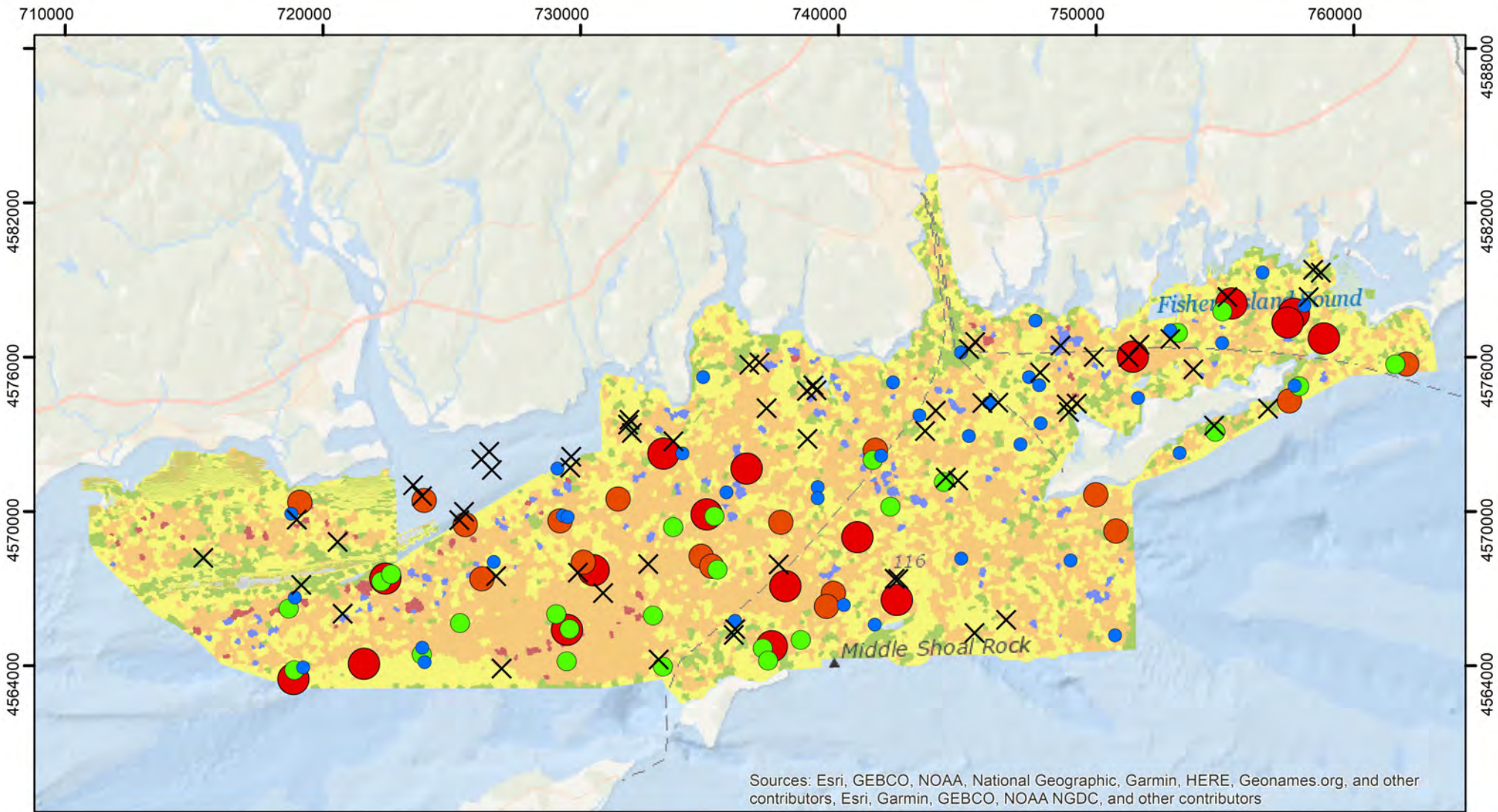


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LIS Cable Fund Mapping Phase 2: *Glycera capitata* (Polychaete Annelid)



Glycera capitata

- × 0
- 1 - 2
- 3 - 5
- 6 - 8
- 9 - 20

eCognition Classification

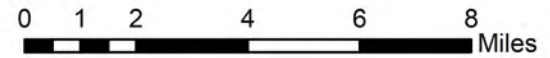
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

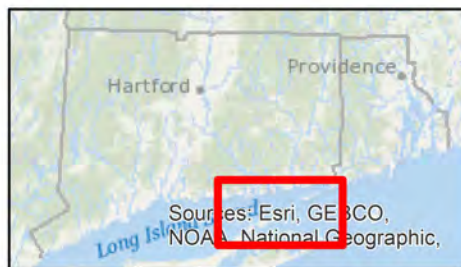
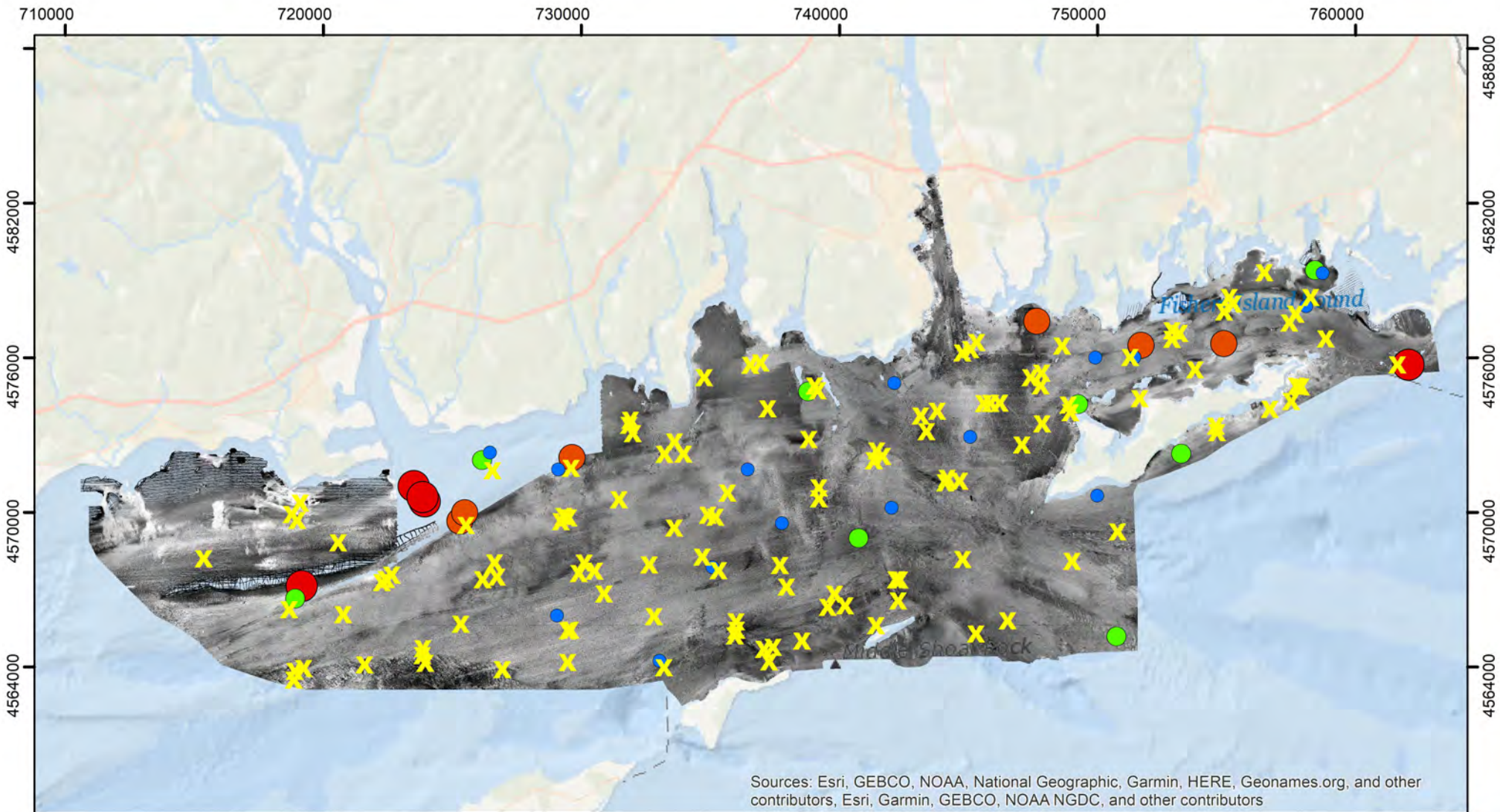


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LIS Cable Fund Mapping Phase 2: *Marenzelleria Viridis* (Polychaete Annelid)



Marenzelleria viridis

- X 0
- 1
- 2 - 5
- 6 - 25
- 26 - 374

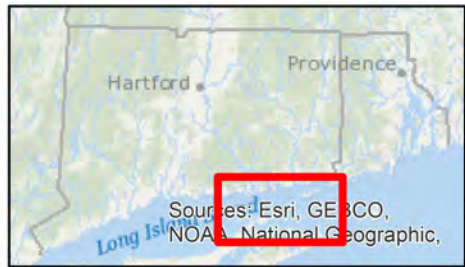
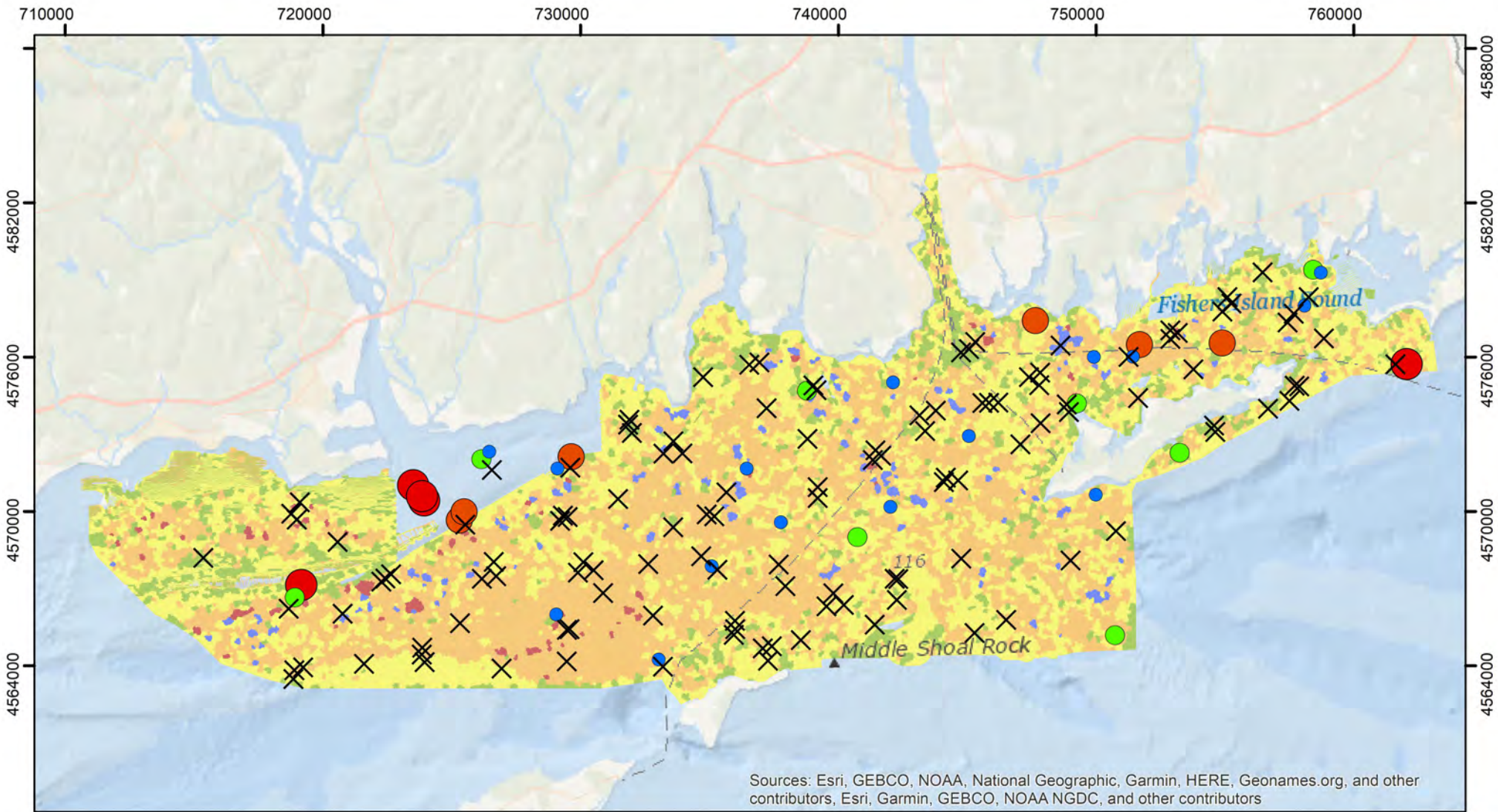


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LIS Cable Fund Mapping Phase 2: *Marenzelleria Viridis* (Polychaete Annelid)



Marenzelleria viridis

- × 0
- 1
- 2 - 5
- 6 - 25
- 26 - 374

eCognition Classification

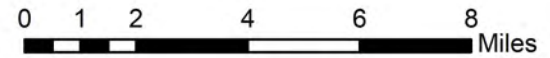
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- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

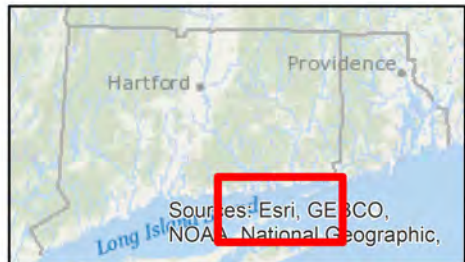
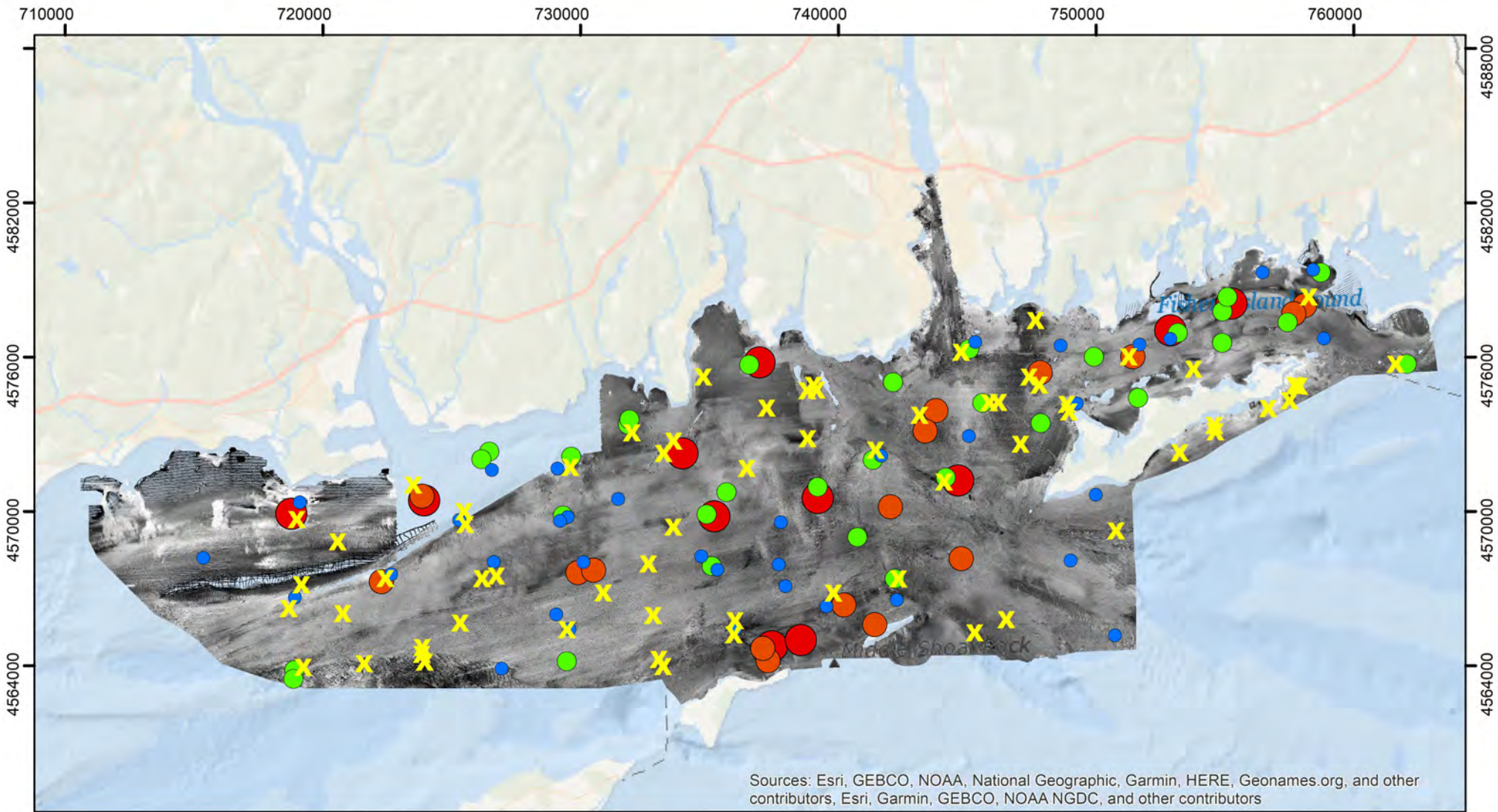


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Mediomastus ambiseta* (Polychaete Annelid)



Mediomastus ambiseta

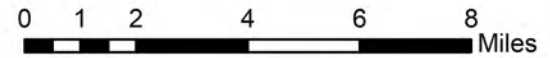
- X 0
- 1 - 2
- 3 - 4
- 5 - 12
- 13 - 58

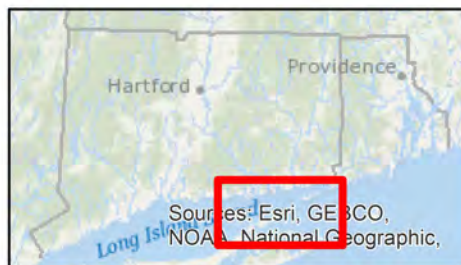
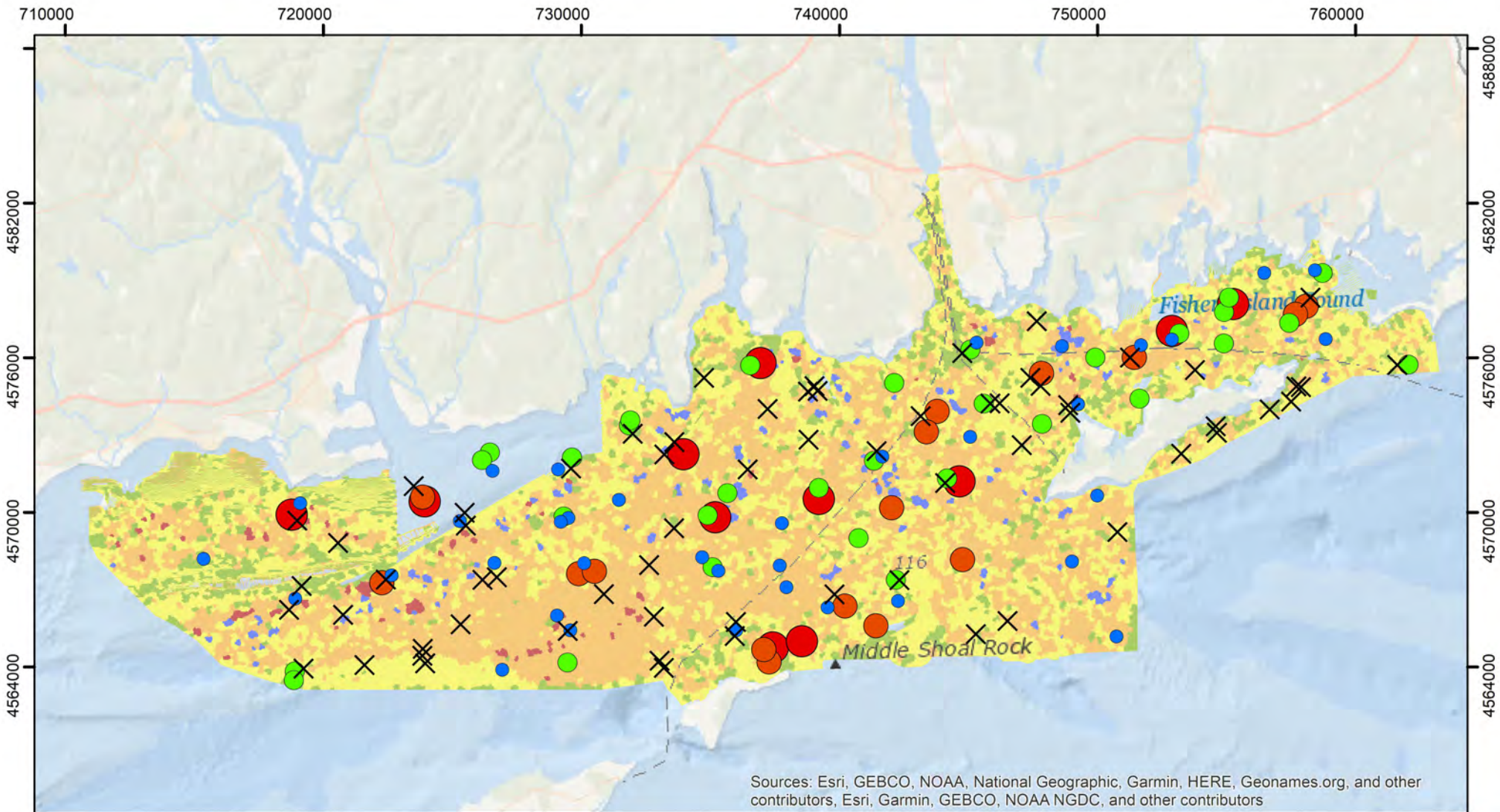


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LIS Cable Fund Mapping Phase 2: *Mediomastus ambiseta* (Polychaete Annelid)



Mediomastus ambiseta

- × 0
- 1 - 2
- 3 - 4
- 5 - 12
- 13 - 58

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

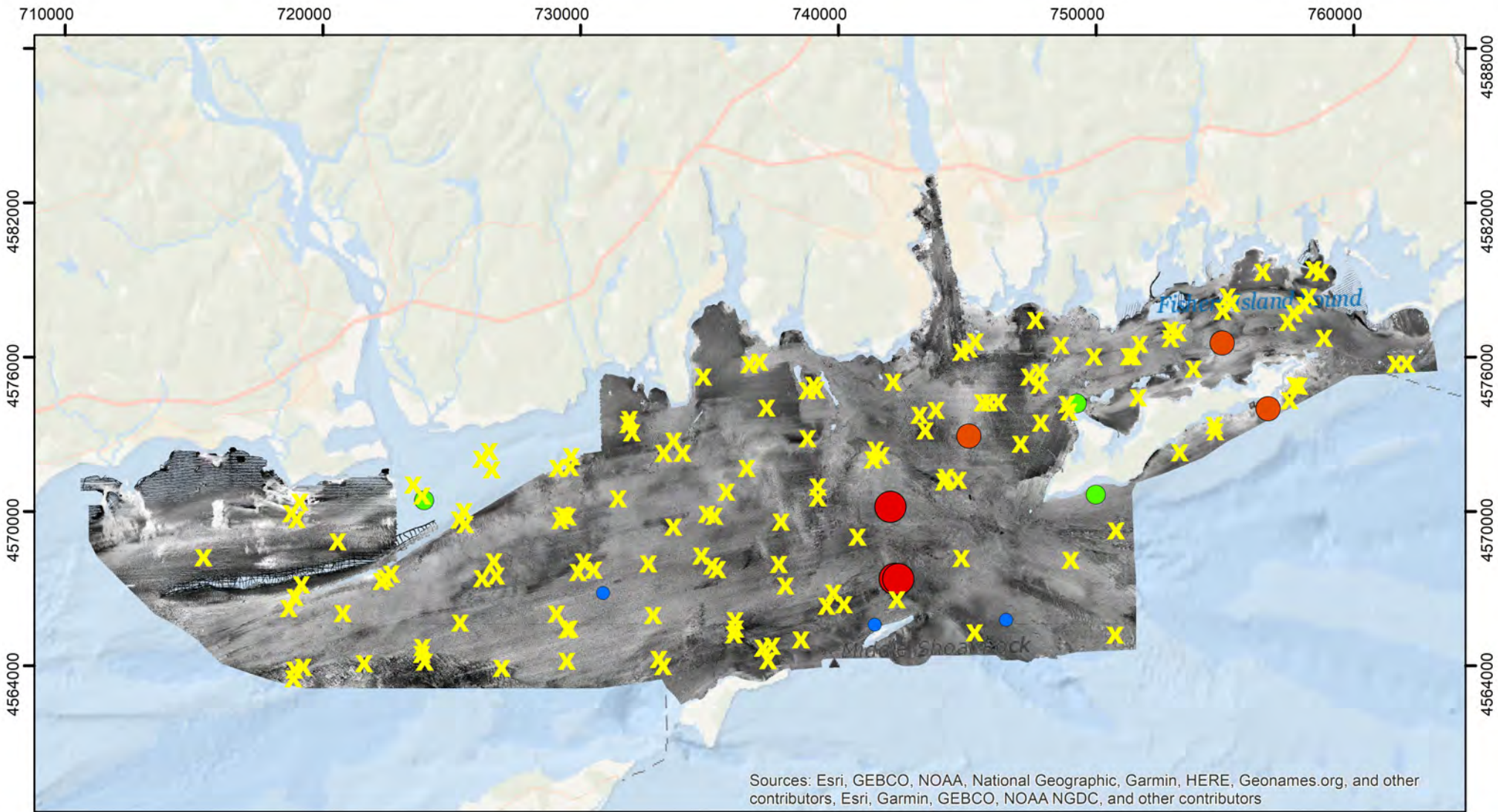


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Polycirrus medusa* (Polychaete Annelid)



Polycirrus medusa

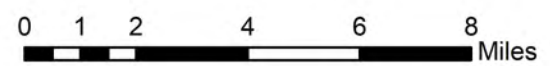
- X 0
- 1 - 2
- 3 - 14
- 15 - 38
- 39 - 142

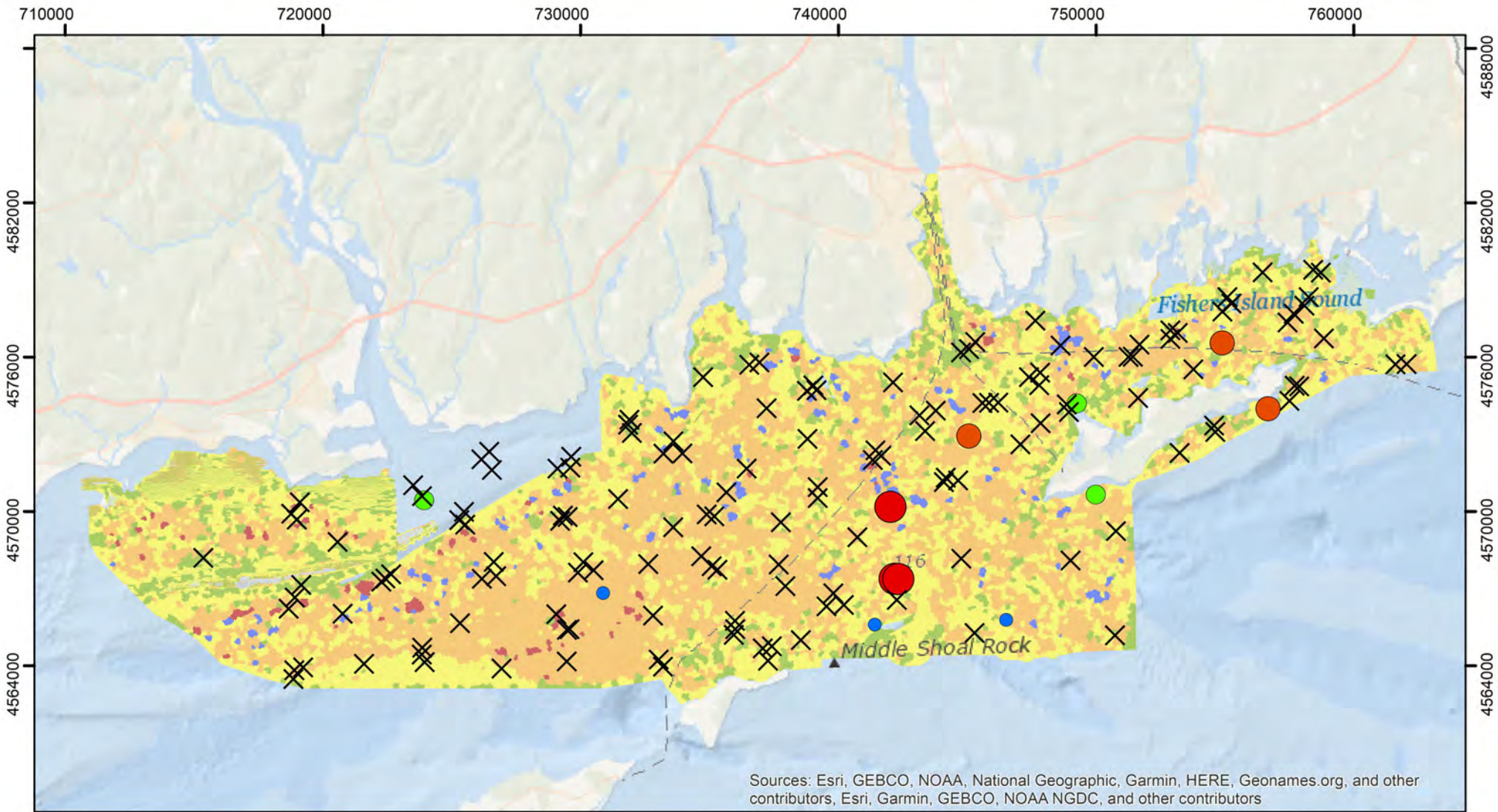


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Polycirrus medusa* (Polychaete Annelid)



Polycirrus medusa

- × 0
- 1 - 2
- 3 - 14
- 15 - 38
- 39 - 142

eCognition Classification

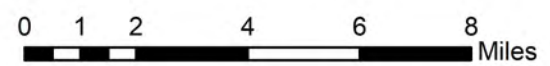
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

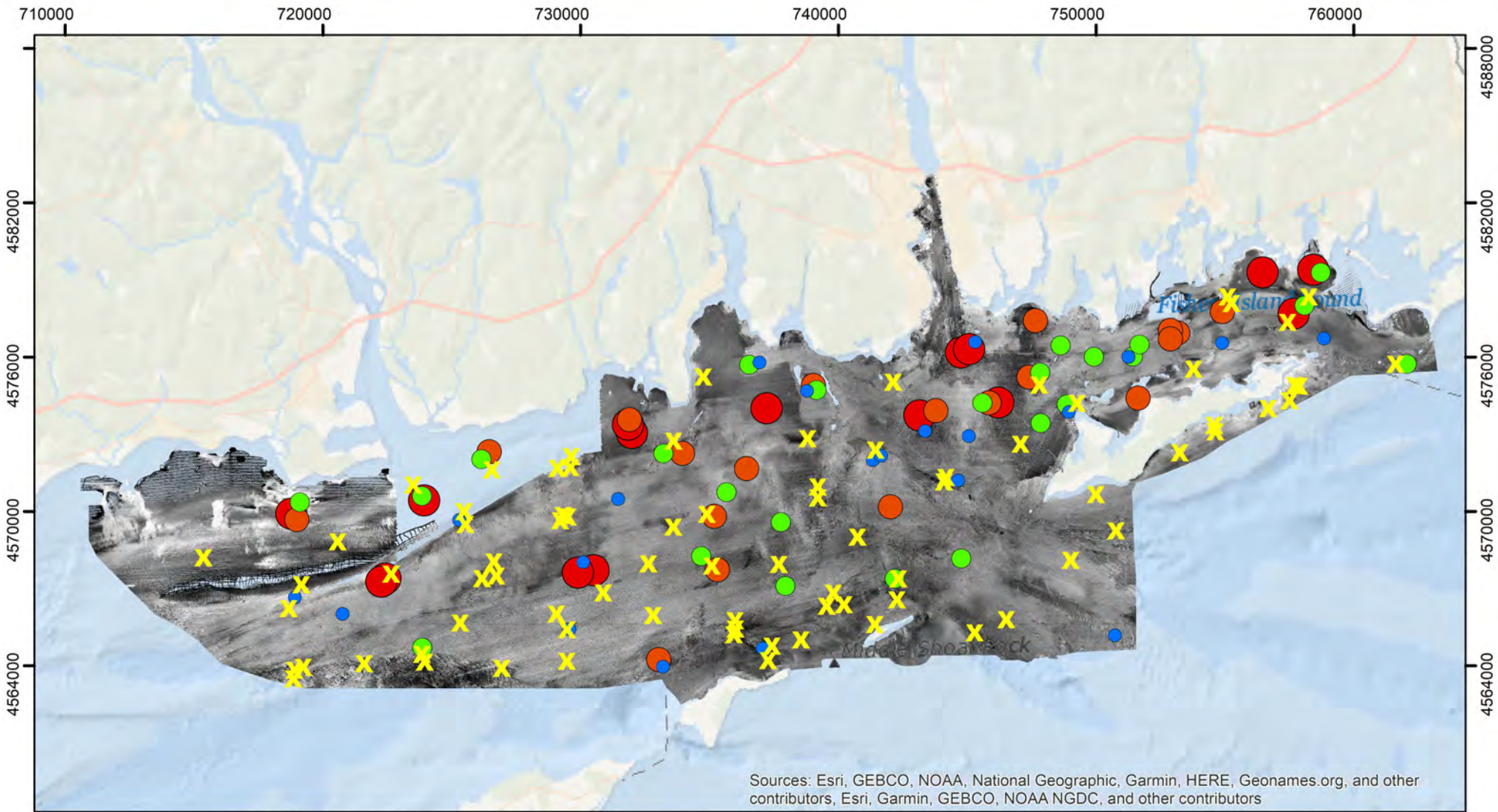


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Praxillella praetermissa* (Polychaete Annelid)



Praxillella praetermissa

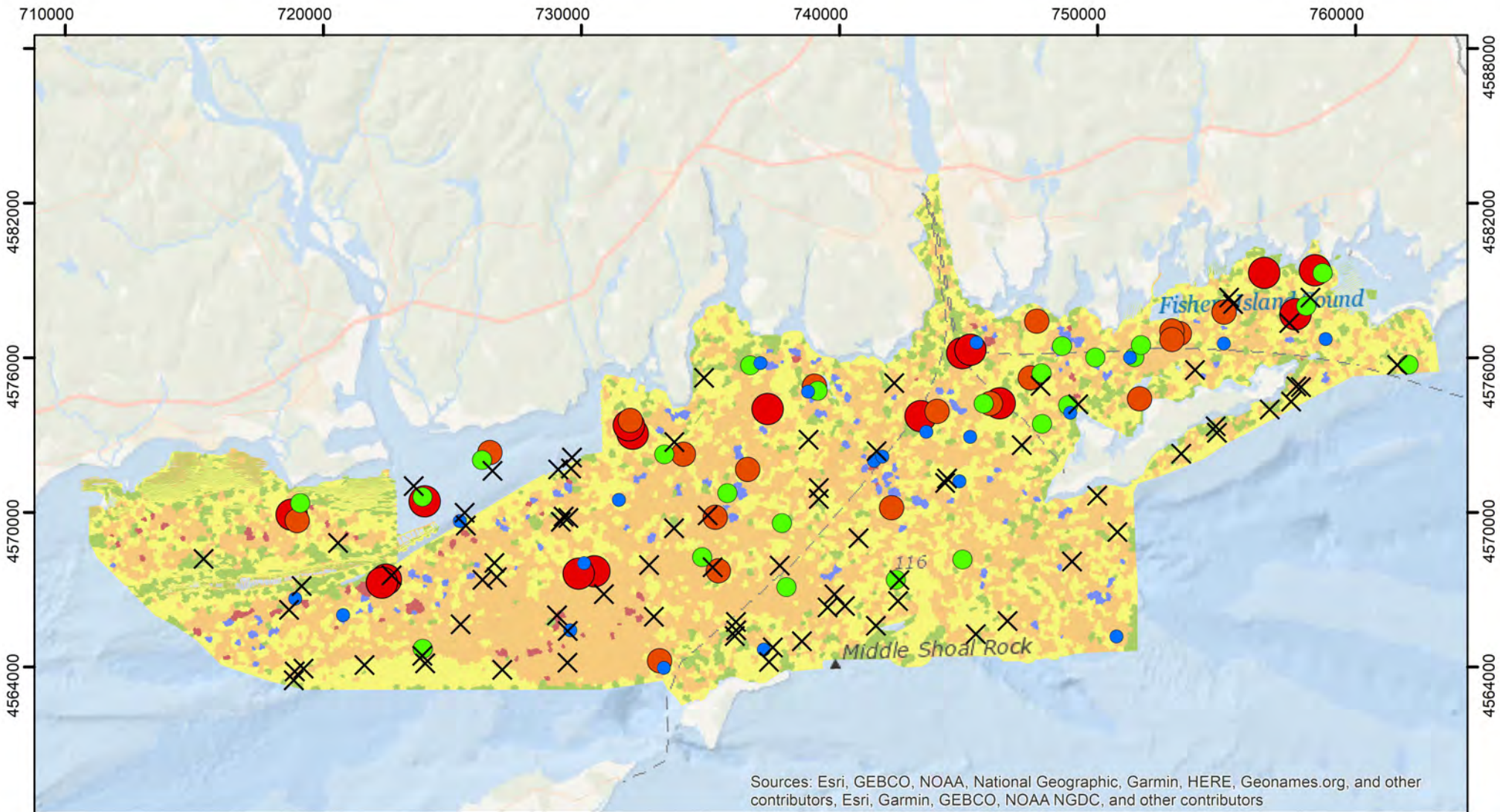


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Horizontal Coordinate System UTM Zone 18N, NAD 1983

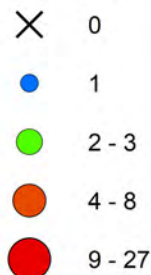




LIS Cable Fund Mapping Phase 2: *Praxillella praetermissa* (Polychaete Annelid)



Praxillella praetermissa



eCognition Classification

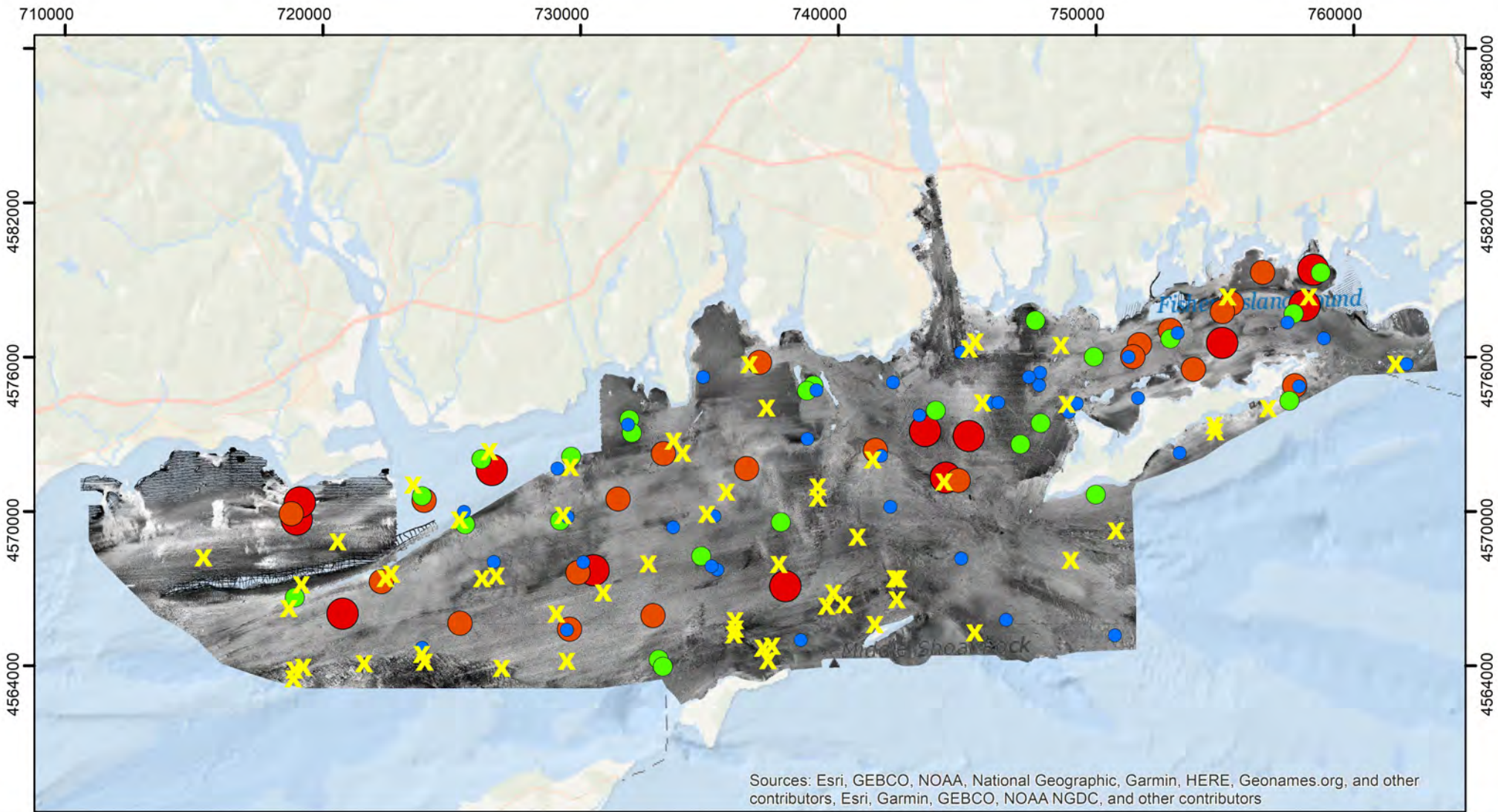


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Spiophanes bombyx* (Polychaete Annelid)



Spiophanes bombyx

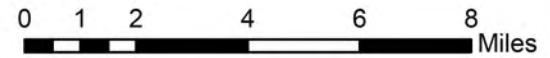
- X 0
- 1 - 2
- 3 - 5
- 6 - 12
- 13 - 33

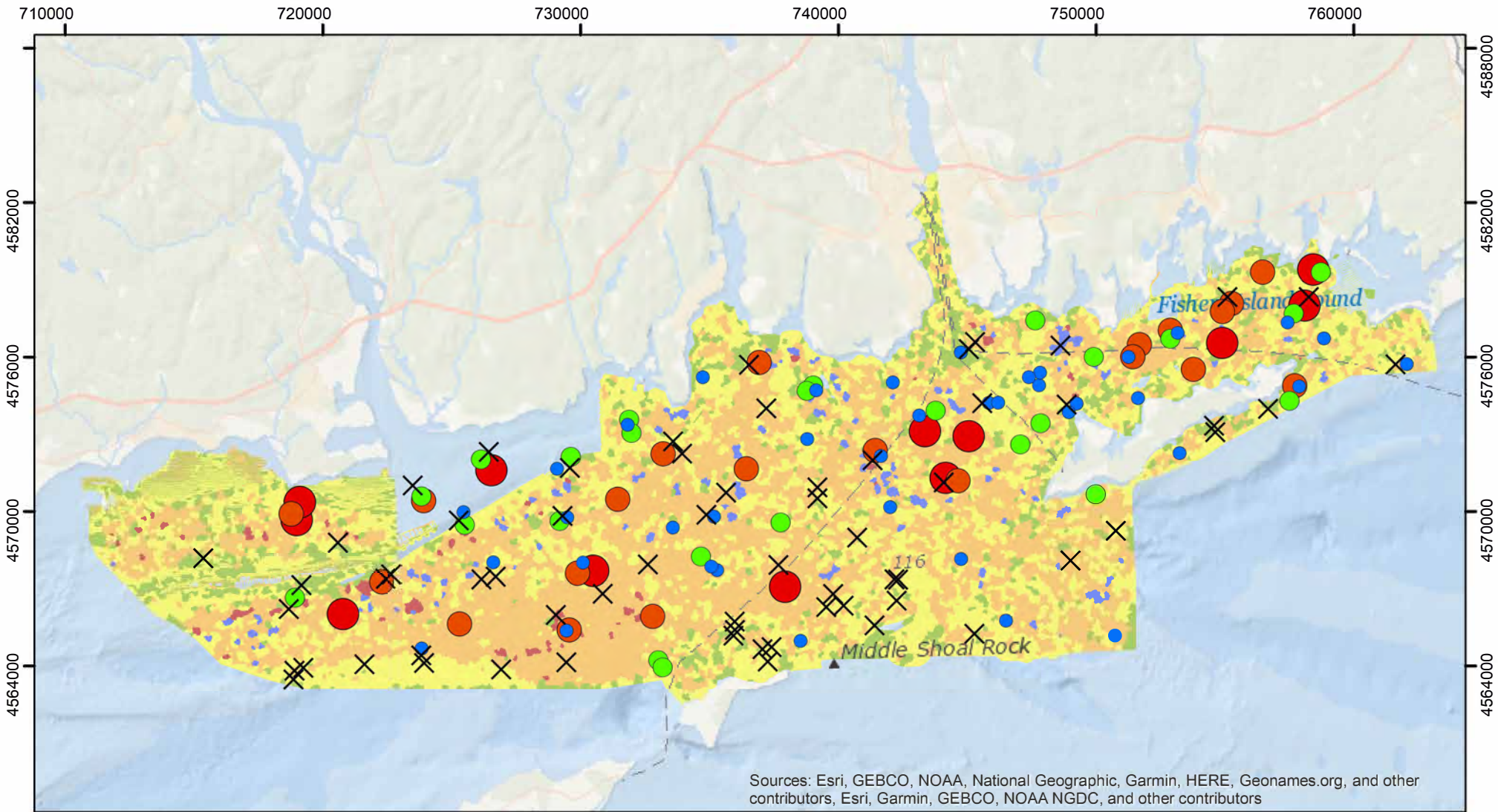


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: *Spiophanes bombyx* (Polychaete Annelid)



Spiophanes bombyx

- × 0
- 1 - 2
- 3 - 5
- 6 - 12
- 13 - 33

eCognition Classification

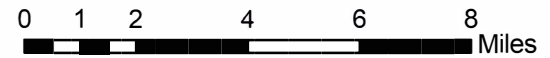
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

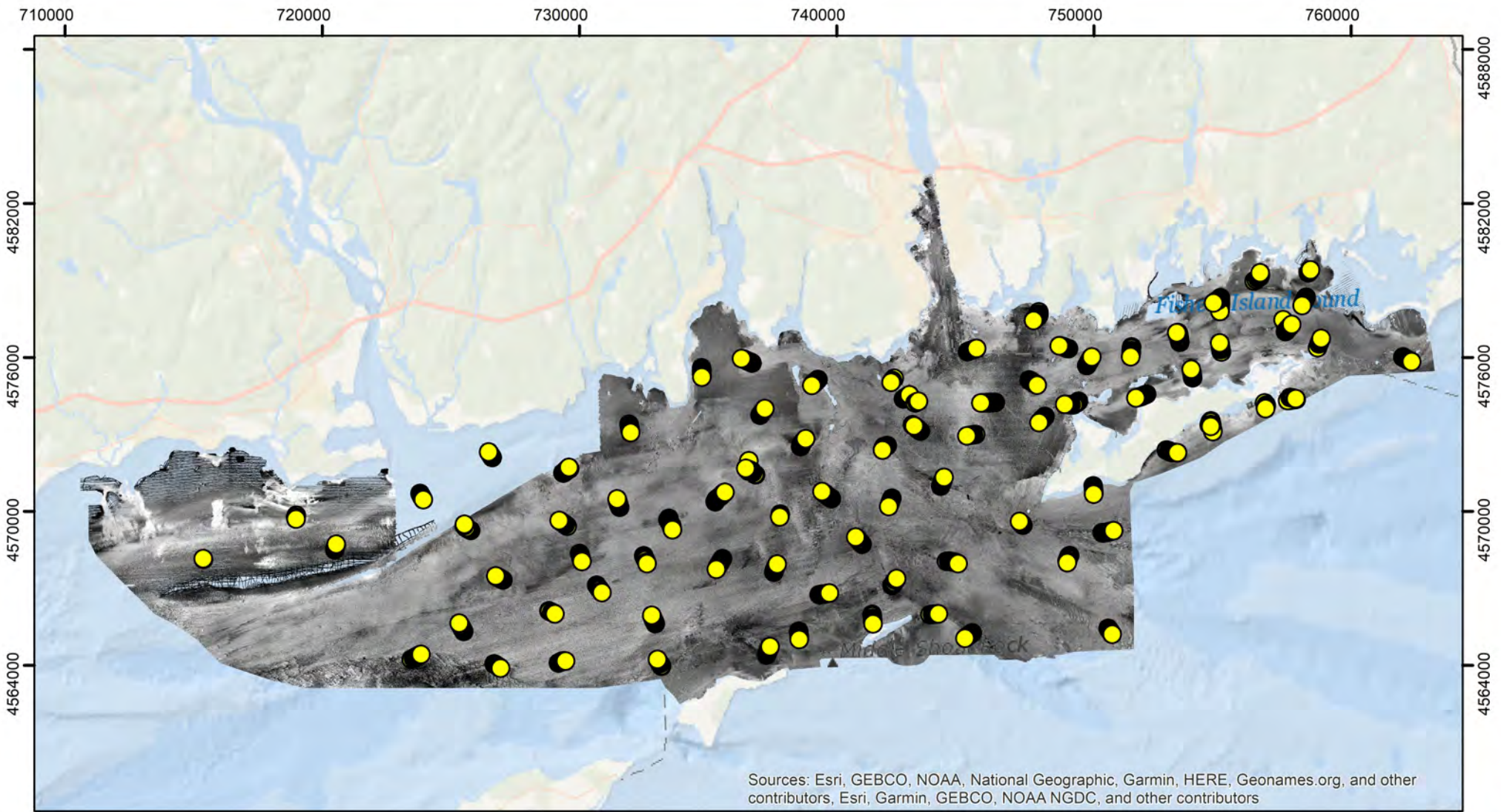


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: SEABOSS Transect Sites

● SEABOSS Sites

Multibeam Backscatter

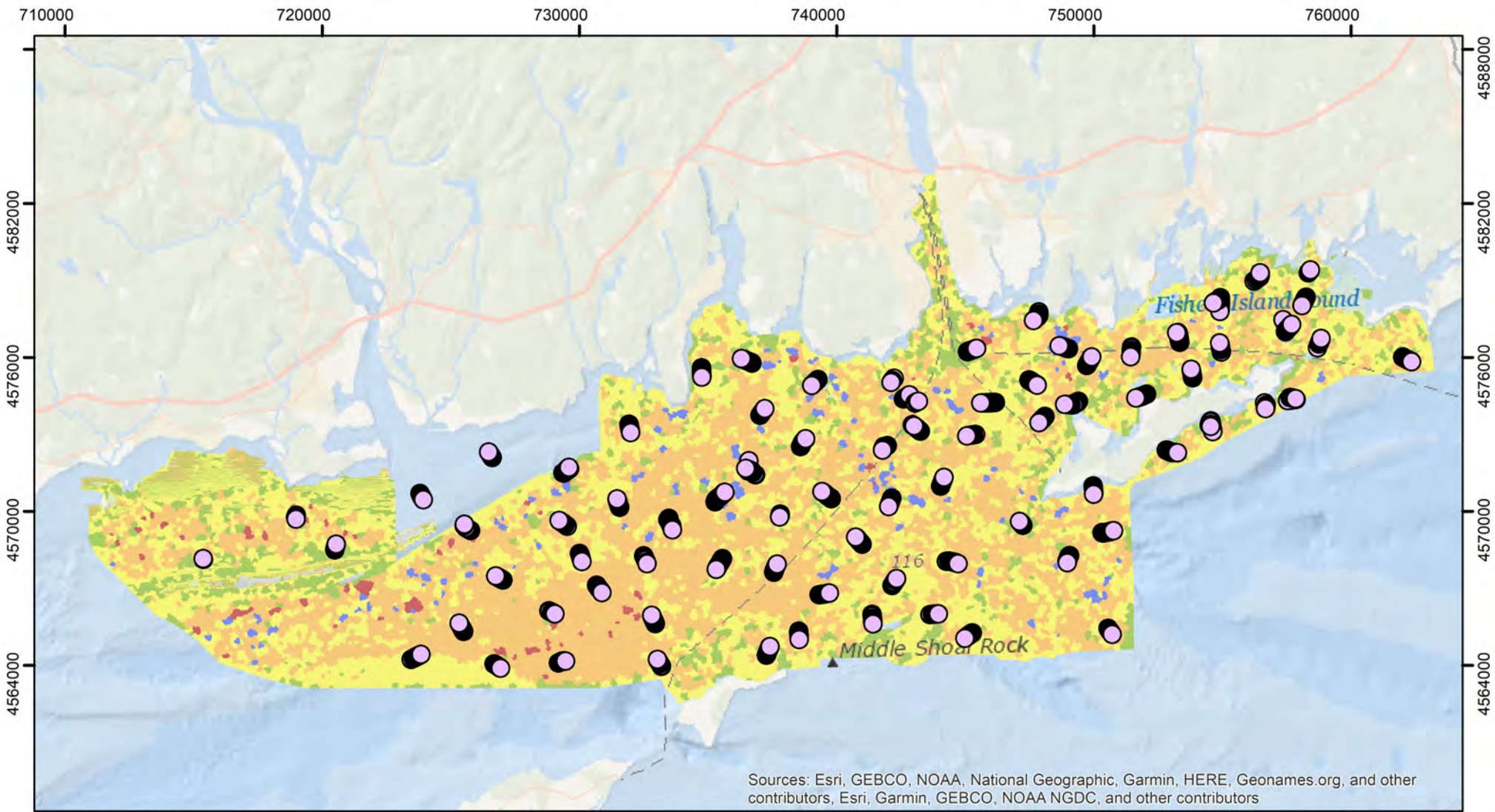


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





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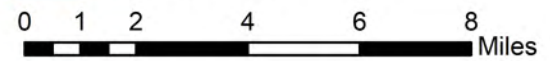
<https://lismap.uconn.edu/>

LIS Cable Fund Mapping Phase 2: SEABOSS Transect Sites

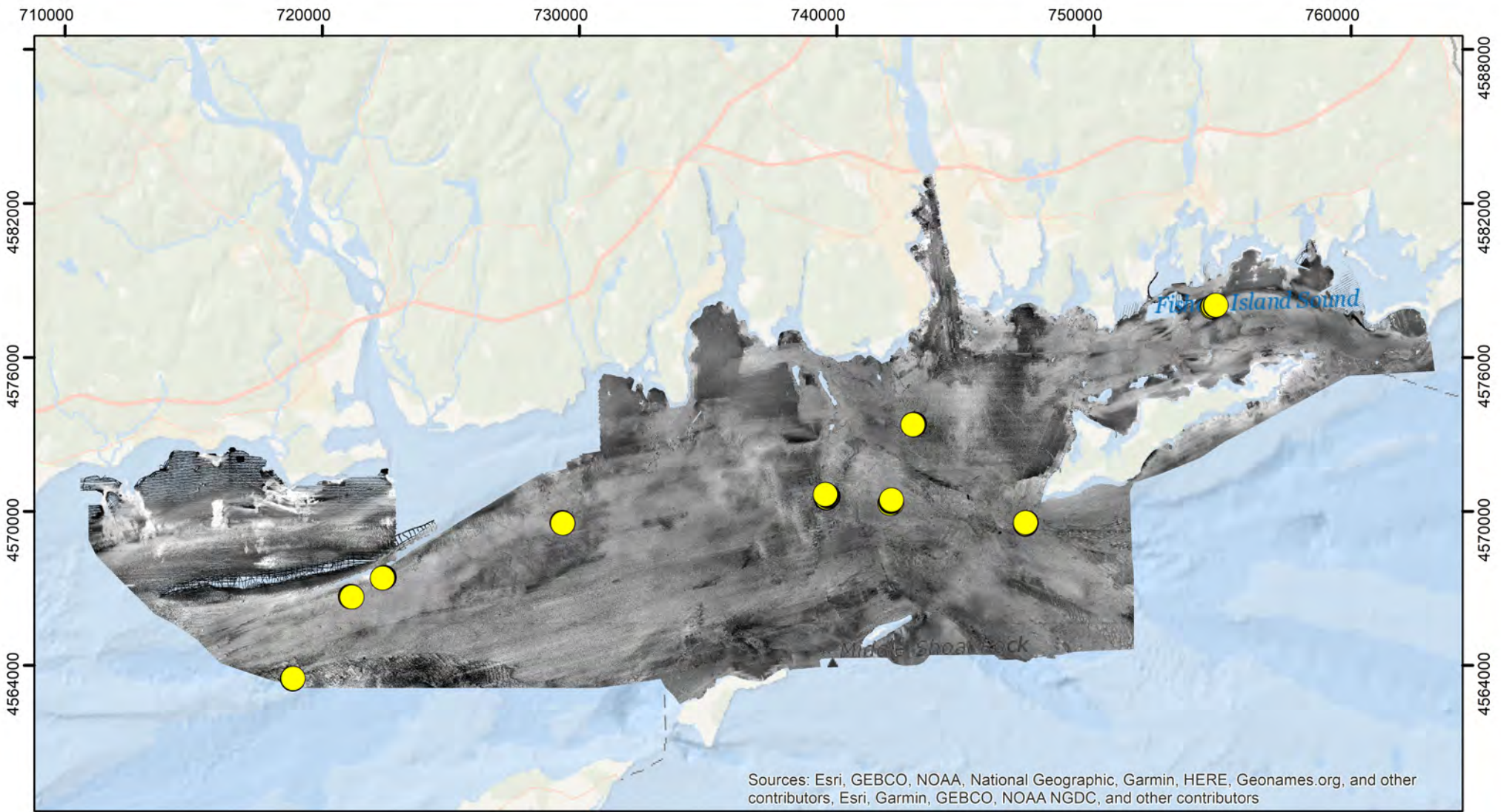
○ SEABOSS Sites

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel



Horizontal Coordinate System UTM Zone 18N, NAD 1983



LIS Cable Fund Mapping Phase 2: ROV Transect Sites

 ROV Sites

Multibeam Backscatter

High : 241



Low : 1

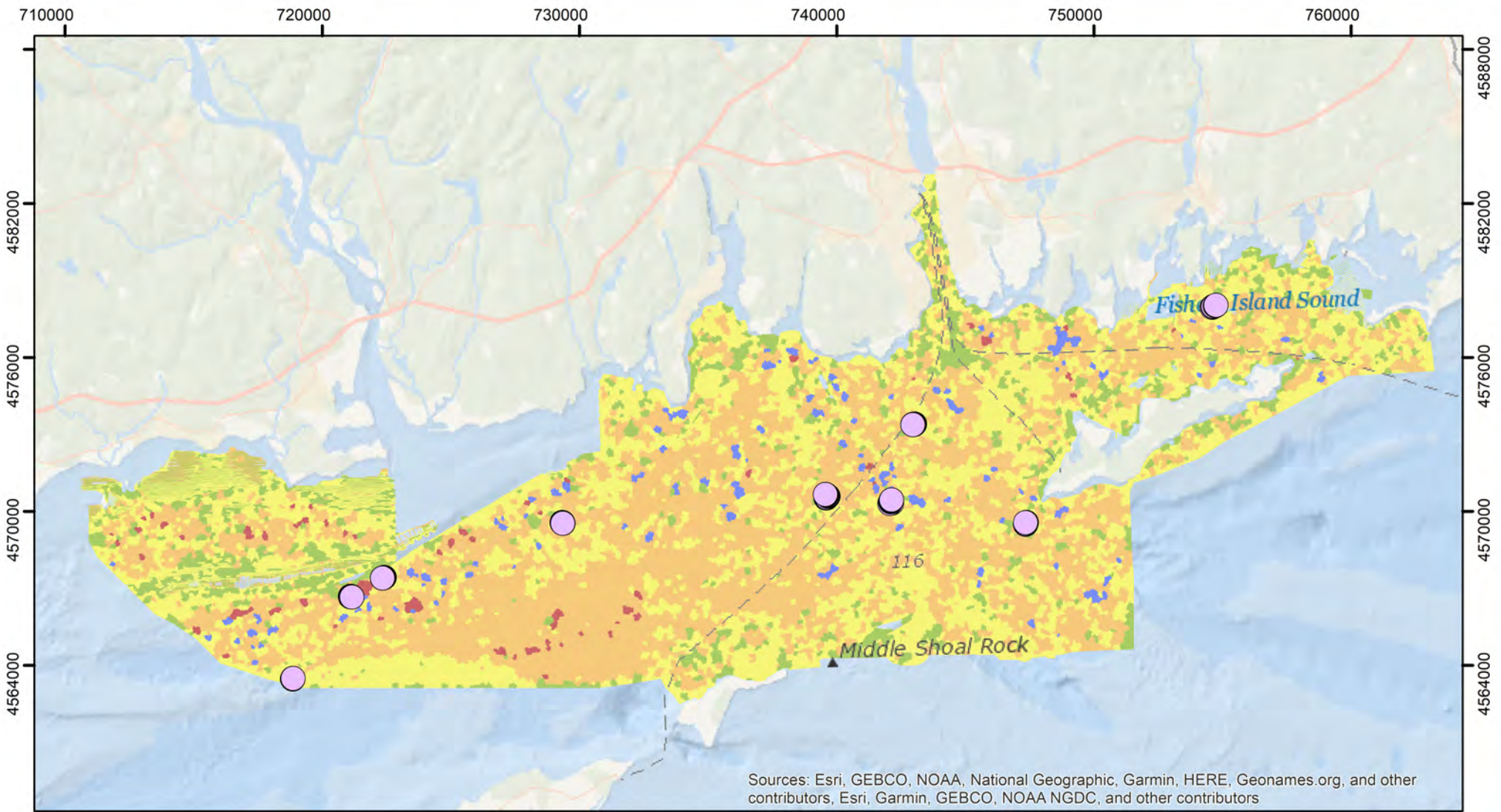


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: ROV Transect Sites

● ROV Sites

eCognition Classification

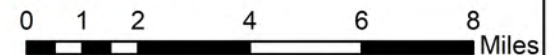
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

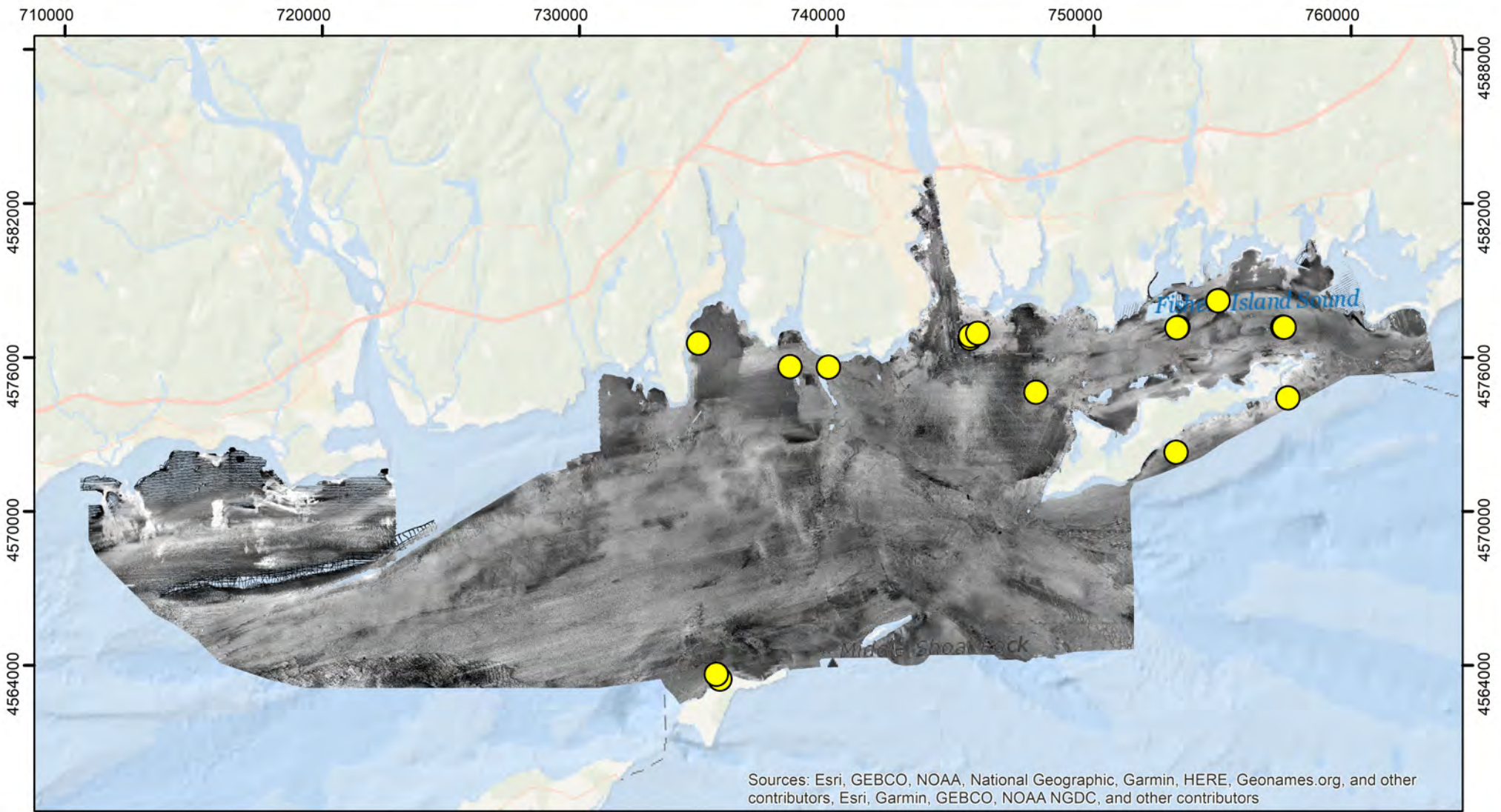


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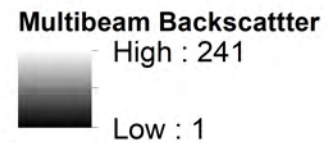
Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Wet Diving Sample Sites

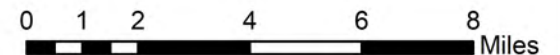
 Wet Diving sites

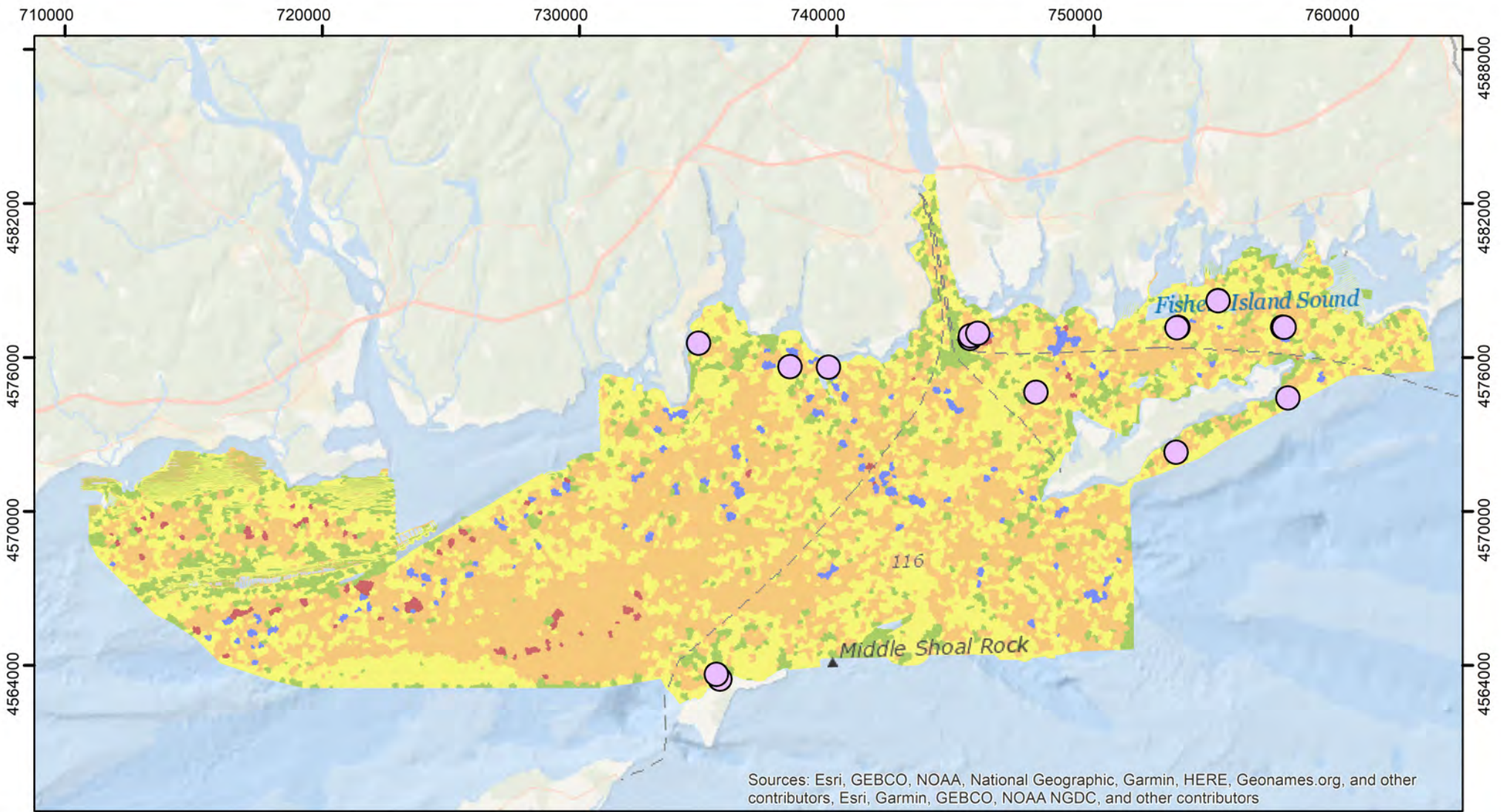


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LIS Cable Fund Mapping Phase 2: Wet Diving Sample Sites

○ Wet Diving sites

eCognition Classification

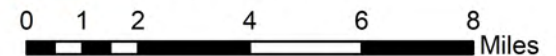
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

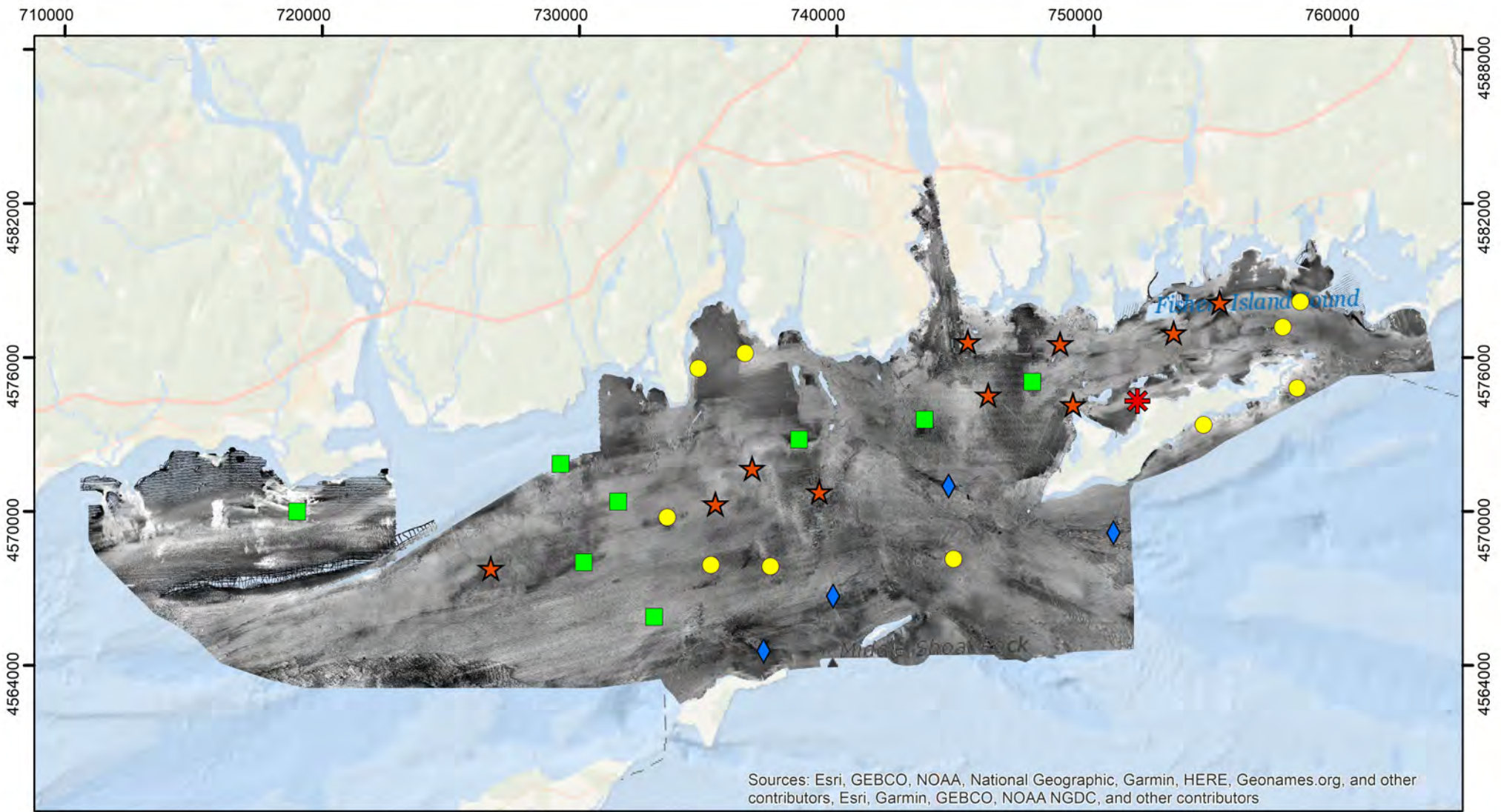


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Mean Taxonomic and Feature Richness Fall 2017



Mean Taxonomic and Feature Richness

Epi - and Emergent - Fauna

- ◆ 1 - 6.80
- 6.81 - 8.29
- 8.30 - 9.59
- ★ 9.60 - 11.32
- ✱ 11.33 - 14.59

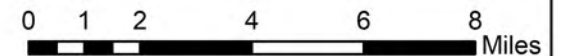
Multibeam Backscatter

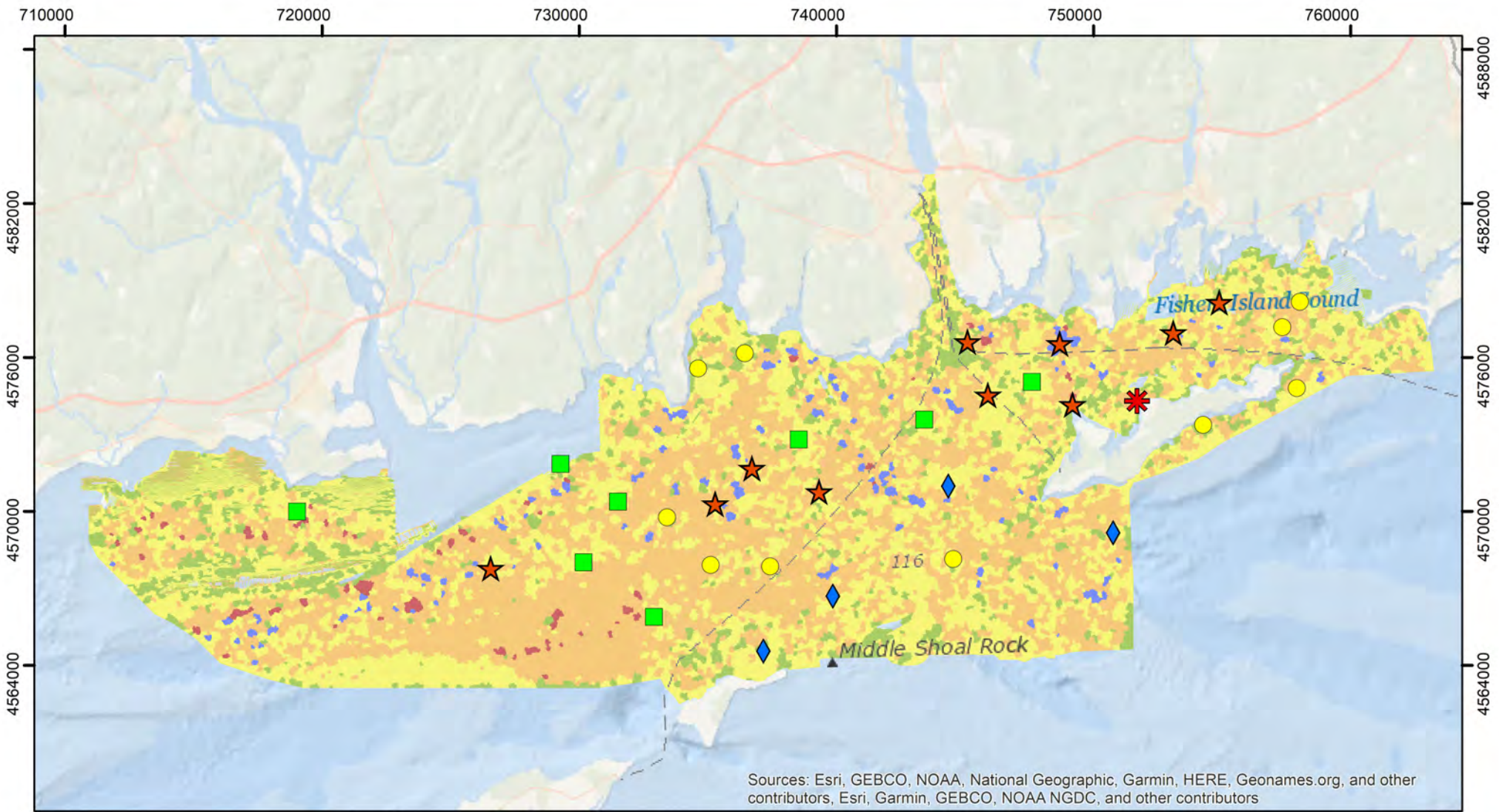


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Mean Taxonomic and Feature Richness Fall 2017



Mean Taxonomic and Feature Richness

Epi - and Emergent - Fauna

- ◆ 1 - 6.80
- 6.81 - 8.29
- 8.30 - 9.59
- ★ 9.60 - 11.32
- ✱ 11.33 - 14.59

eCognition Classification

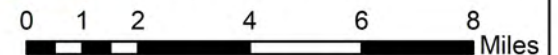
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

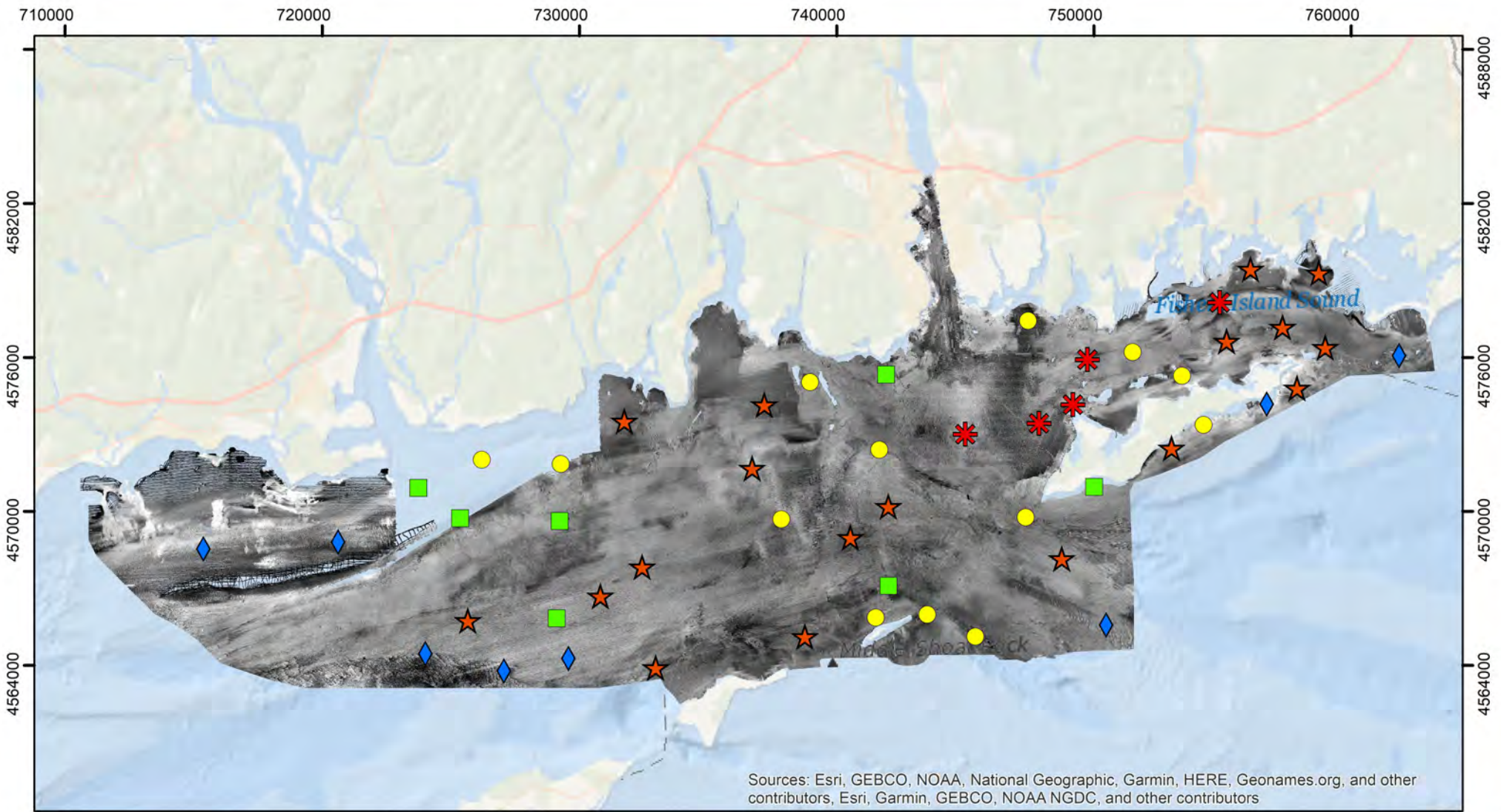


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Mean Taxonomic and Feature Richness Spring 2018



Mean Taxonomic and Feature Richness

Epi - and Emergent - Fauna

- ◆ 1 - 5.13
- 5.13 - 8.00
- 8.01 - 10.44
- ★ 10.45 - 13.60
- ✱ 13.61 - 17.22

Multibeam Backscatter

- High : 241
- Low : 1

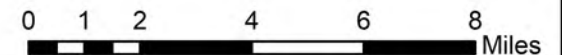


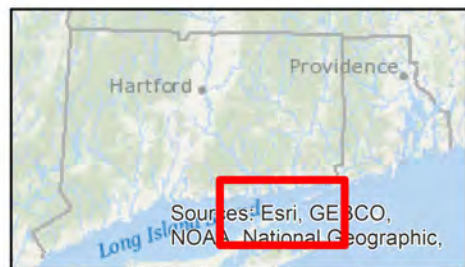
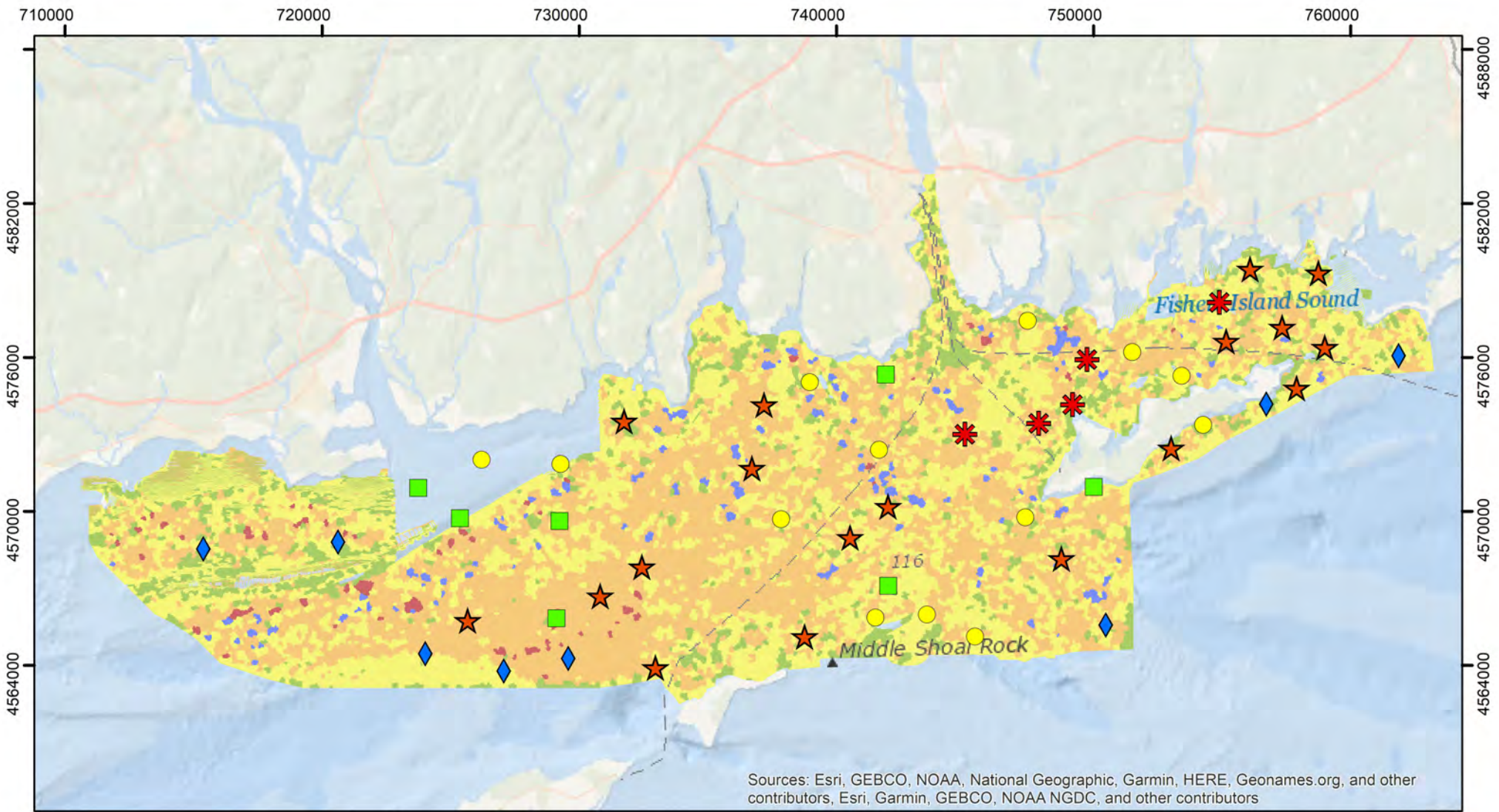
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51

Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Mean Taxonomic and Feature Richness Spring 2018



Mean Taxonomic and Feature Richness

Epi - and Emergent - Fauna

-  1 - 5.13
-  5.13 - 8.00
-  8.01 - 10.44
-  10.45 - 13.60
-  13.61 - 17.22

eCognition Classification

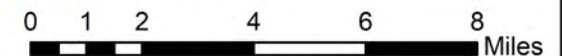
-  A - Sandy Silt
-  B - Silty Sand
-  C - Gravel/Sand
-  D - Gravelly Sand
-  E - Sandy Gravel

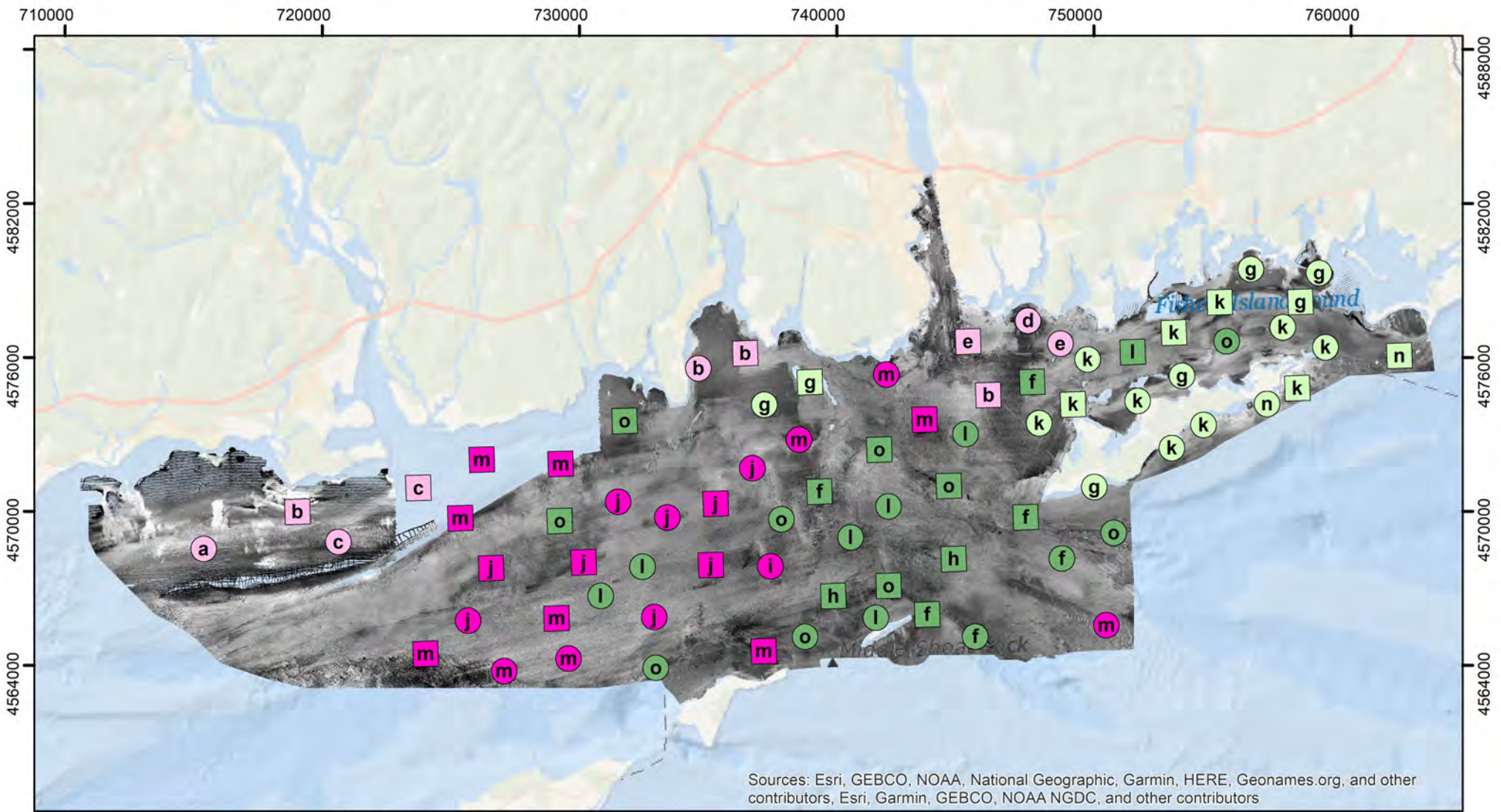


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





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LIS Cable Fund Mapping Phase 2: Community Distribution for Taxonomic and Feature Richness



Community Distribution for Taxonomic and Feature Clusters

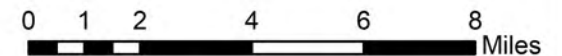
Geographic Region

- West
- Coast
- East
- Central

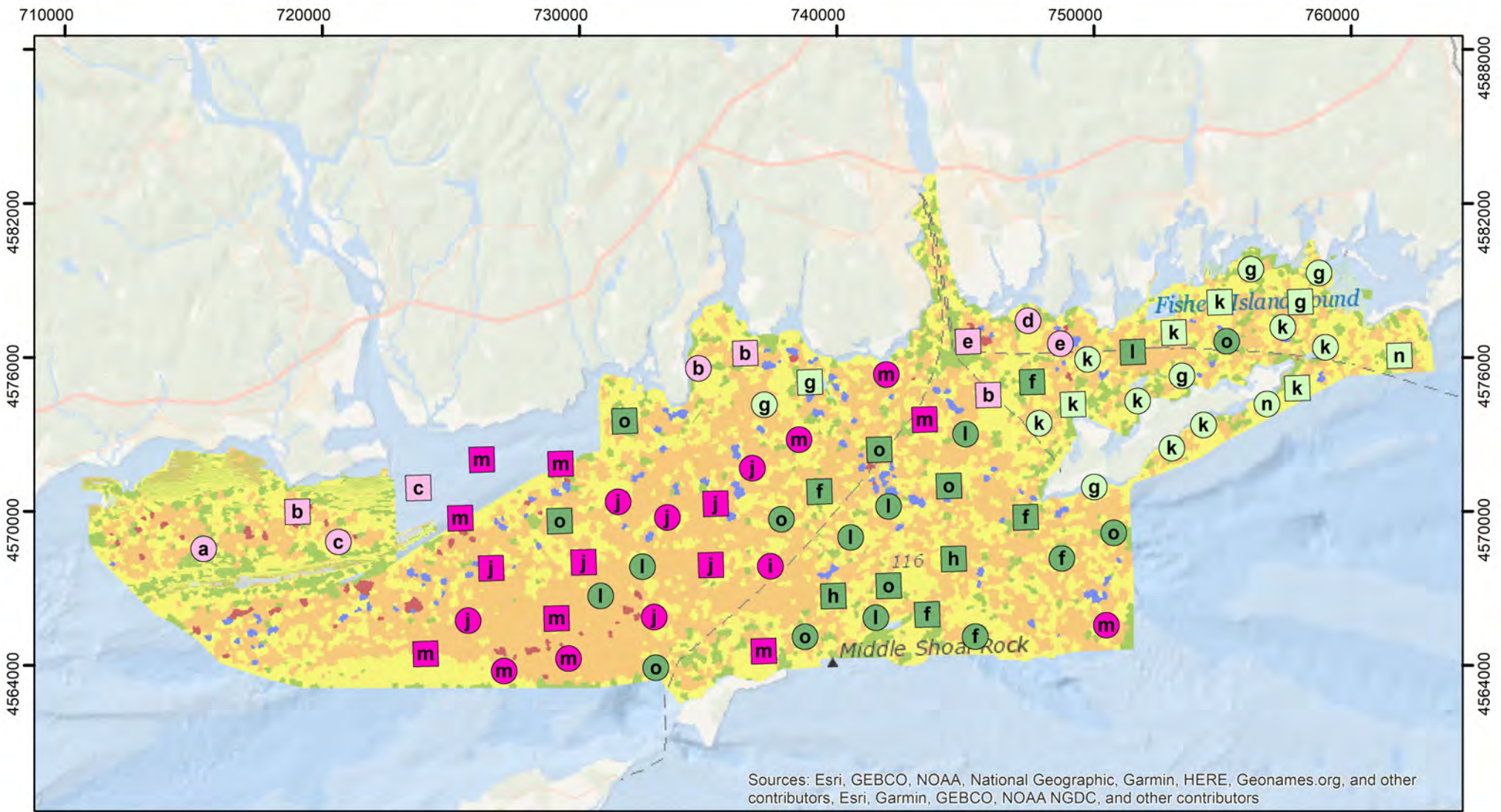
Taxonomic and Feature Simper Clusters

- i, j, m
- a, b, c, d, e
- g, k, n
- f, h, l, o

Multibeam Backscatter



Horizontal Coordinate System UTM Zone 18N, NAD 1983



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LIS Cable Fund Mapping Phase 2: Community Distribution for Taxonomic and Feature Richness



Community Distribution for Taxonomic and Feature Clusters

Geographic Region

- West
- Coast
- East
- Central

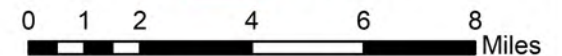
Taxonomic and Feature Simper Clusters

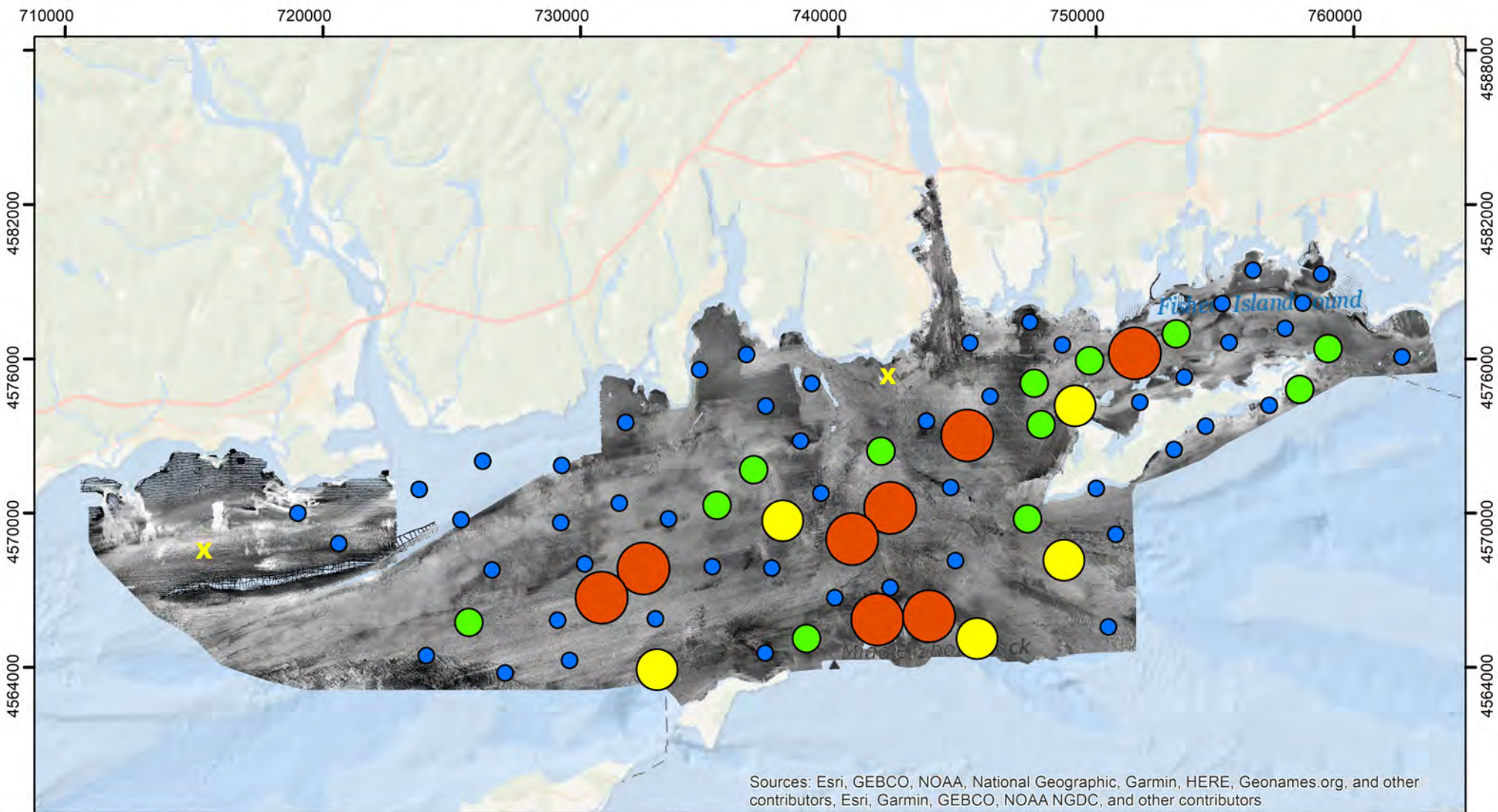
- i, j, m
- a, b, c, d, e
- g, k, n
- f, h, l, o

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

Horizontal Coordinate System UTM Zone 18N, NAD 1983

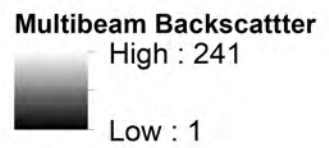
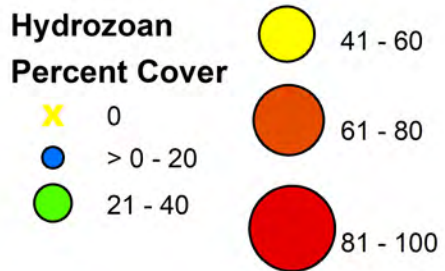




Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



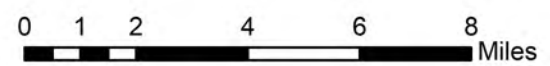
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Hydrozoan - Bryozoan Turfs

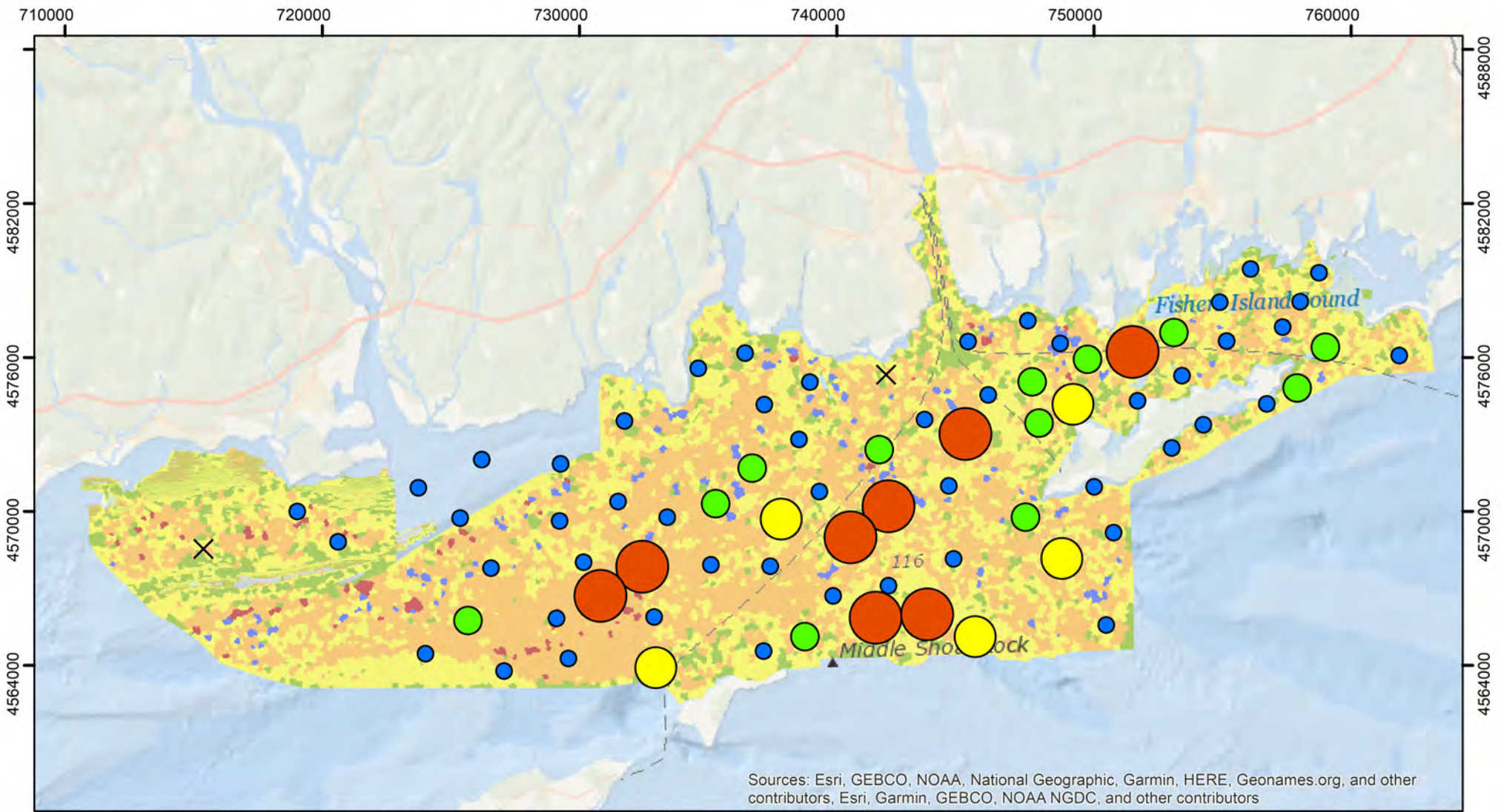


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Hydrozoan - Bryozoan Turfs



Hydrozoan Percent Cover



> 0 - 20



21 - 40



41 - 60



61 - 80



81 - 100

eCognition Classification



A - Sandy Silt



B - Silty Sand



C - Gravel/Sand



D - Gravelly Sand



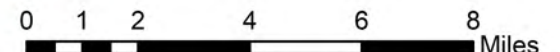
E - Sandy Gravel

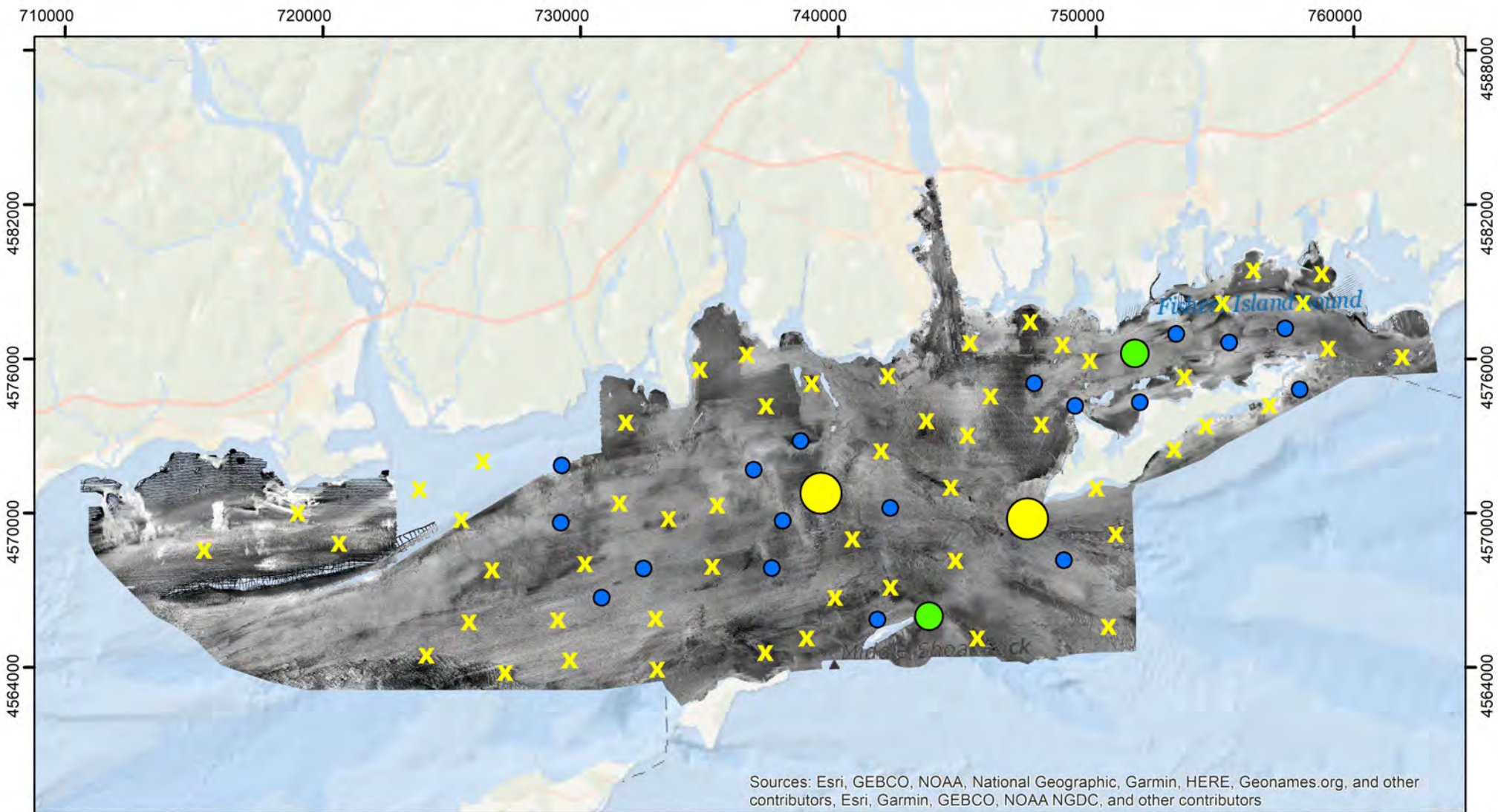


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Horizontal Coordinate System UTM Zone 18N, NAD 1983

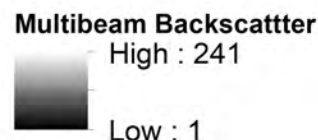
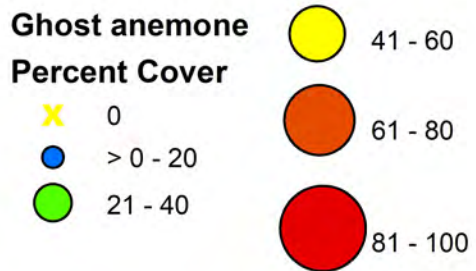




Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



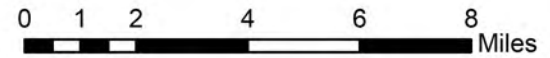
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Ghost anemone- *Diadumene leucolena*

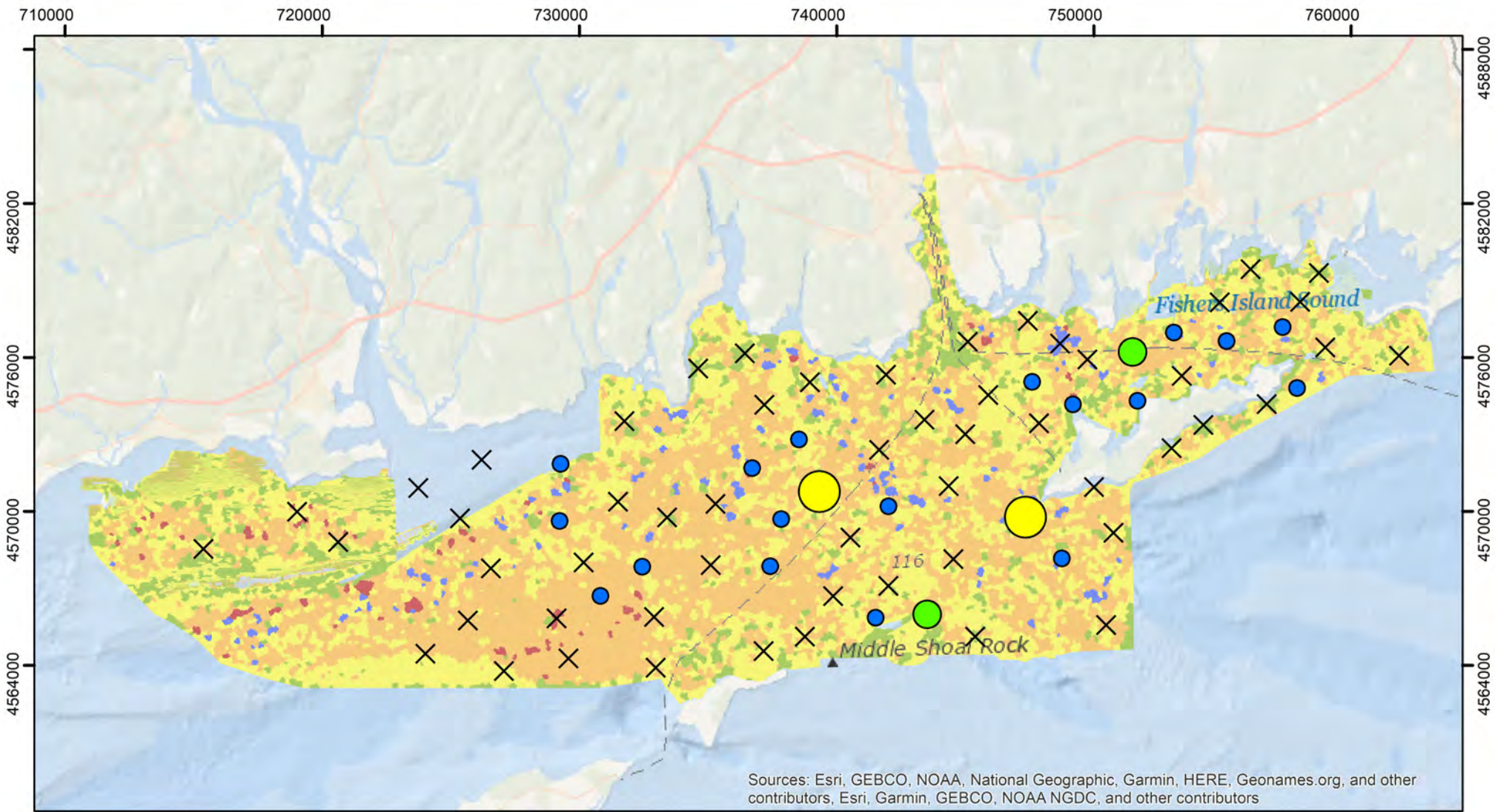


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Ghost anemone- *Diadumene leucolena*



Ghost anemone Percent Cover

- × 0
- > 0 - 20
- 21 - 40

- 41 - 60
- 61 - 80
- 81 - 100

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

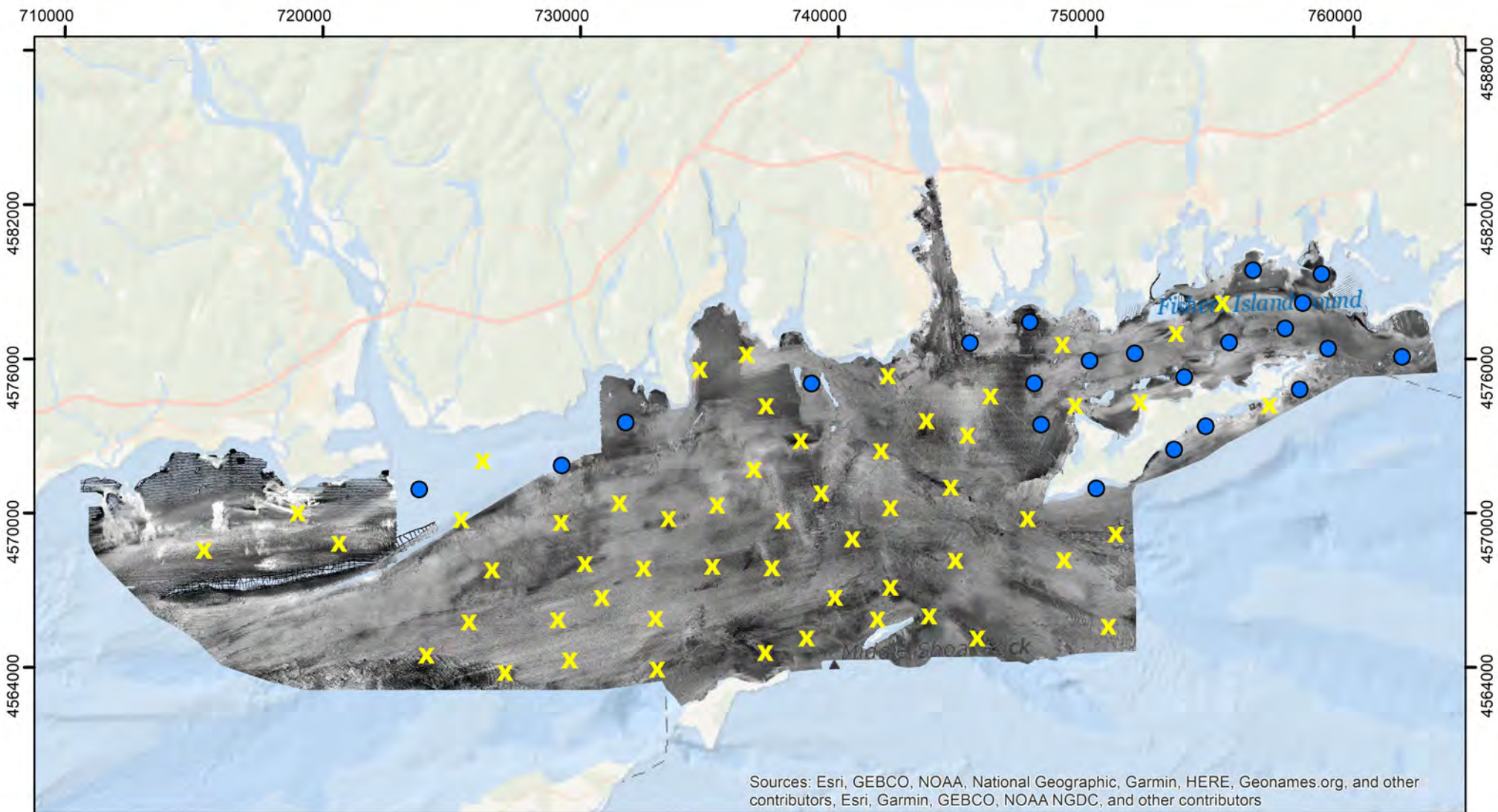


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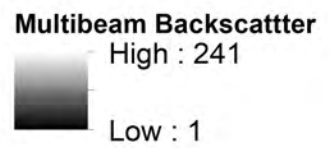
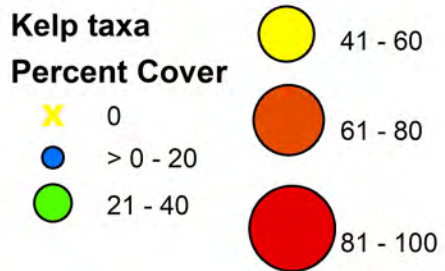
<https://lismap.uconn.edu/>

Horizontal Coordinate System UTM Zone 18N, NAD 1983





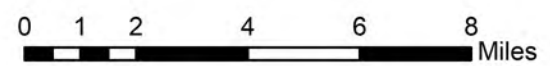
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Kelp taxa - *Laminariaceae*

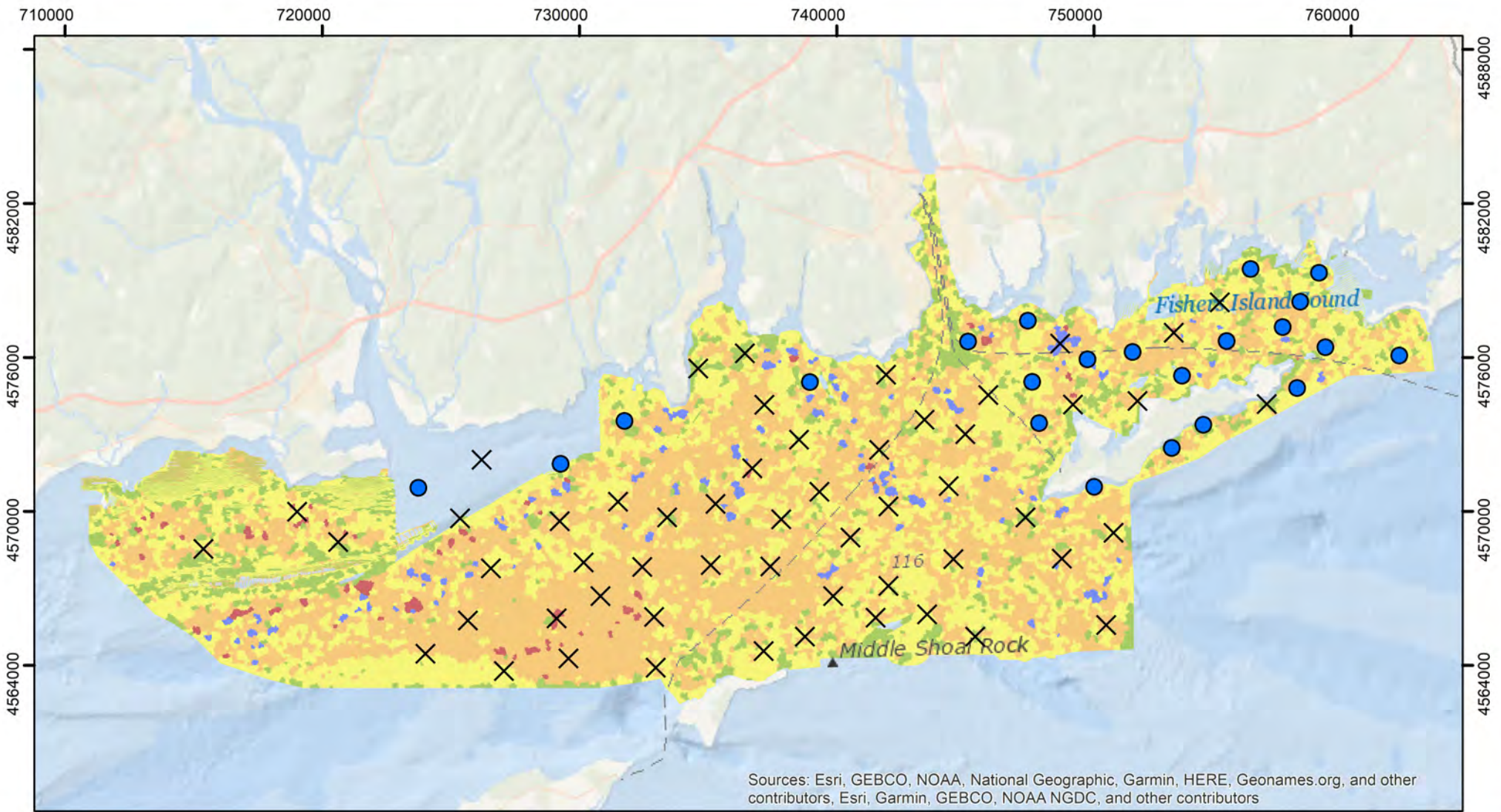


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Kelp taxa - *Laminariaceae*



Kelp taxa

Percent Cover



• > 0 - 20

• 21 - 40



41 - 60



61 - 80



81 - 100

eCognition Classification

• A - Sandy Silt

• B - Silty Sand

• C - Gravel/Sand

• D - Gravelly Sand

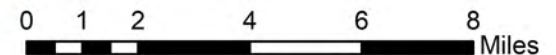
• E - Sandy Gravel

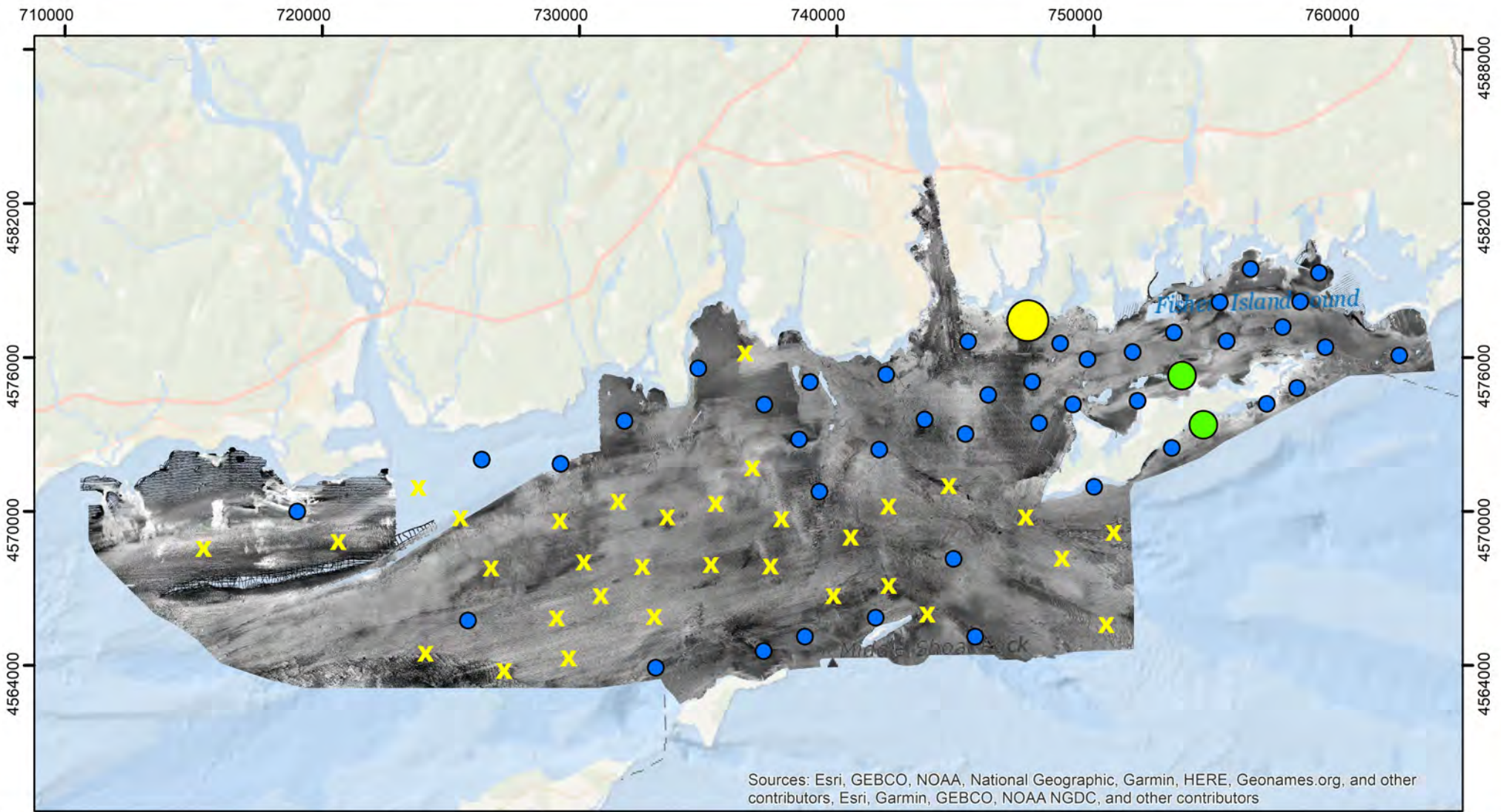


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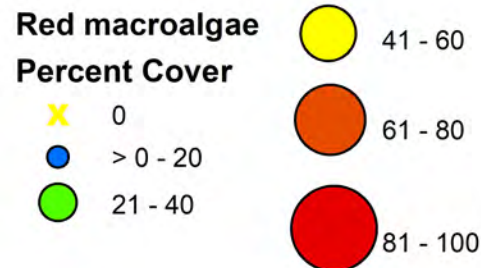
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Horizontal Coordinate System UTM Zone 18N, NAD 1983





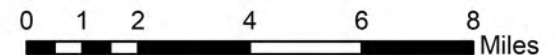
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Red macroalgae -*Rhodophyta*

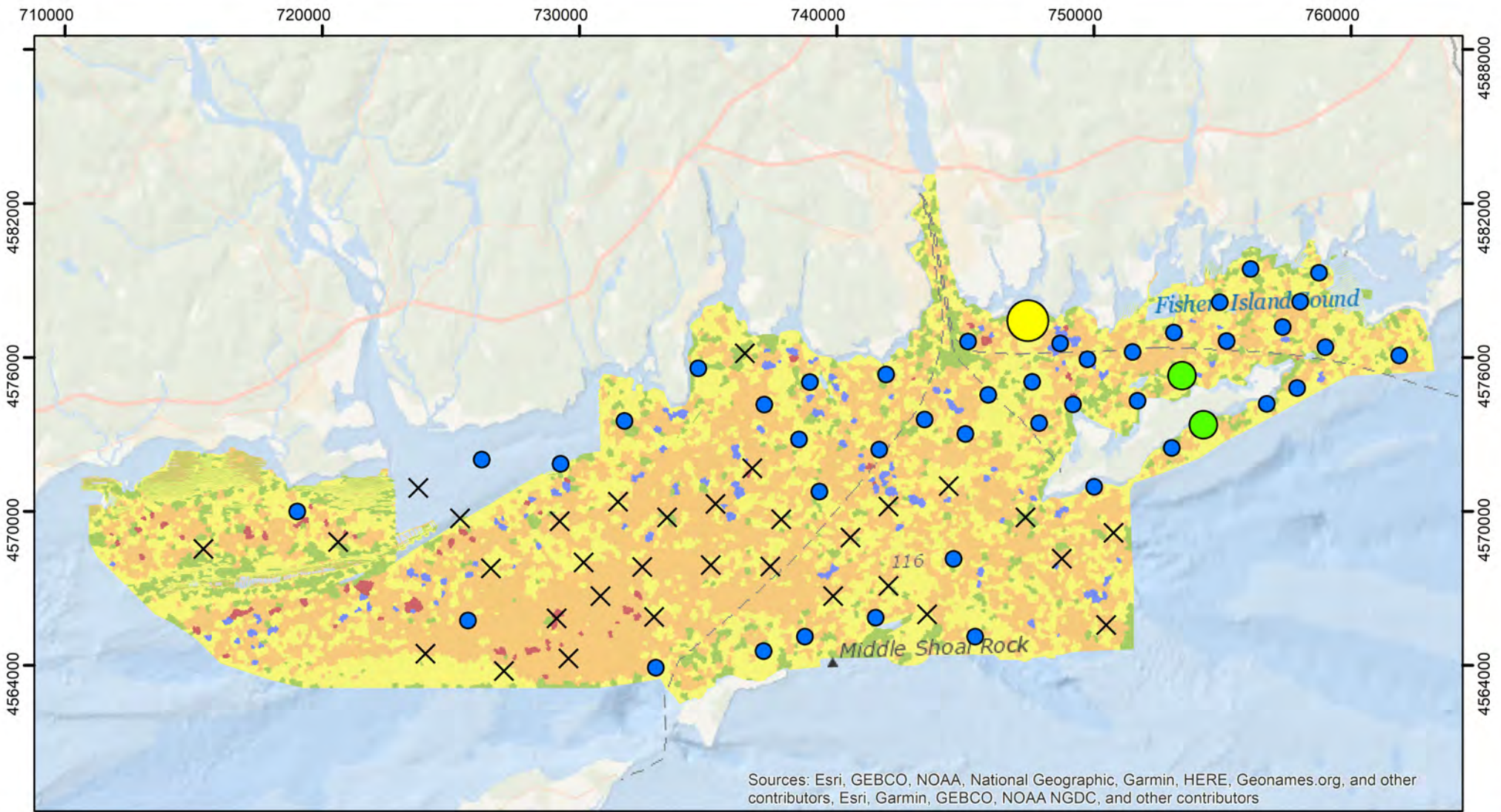


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<https://lismap.uconn.edu/>

Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Red macroalgae -*Rhodophyta*



Red macroalgae Percent Cover

- X 0
- > 0 - 20
- 21 - 40

- 41 - 60
- 61 - 80
- 81 - 100

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

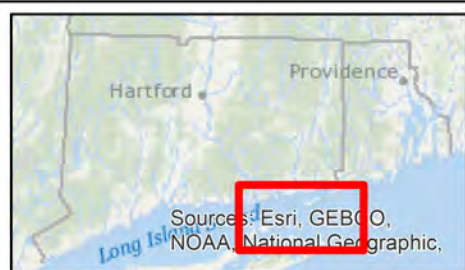
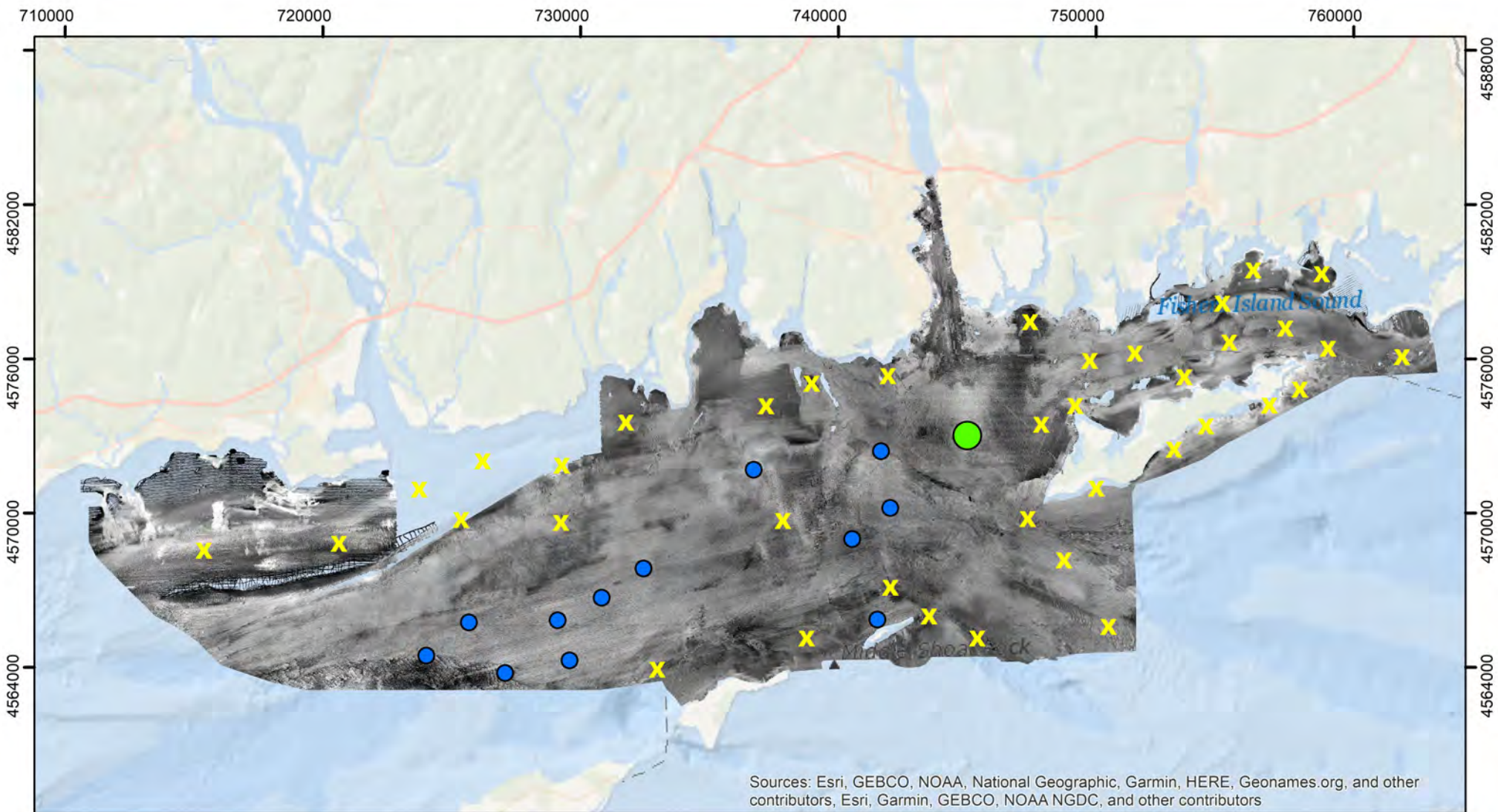


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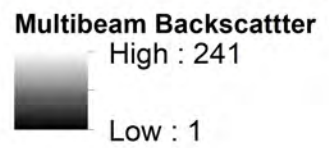
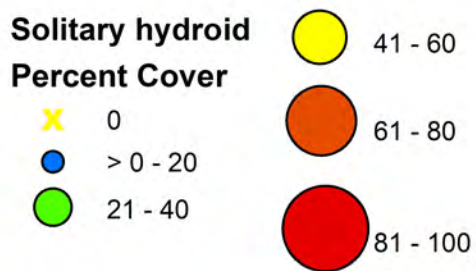
<https://lismap.uconn.edu/>

Horizontal Coordinate System UTM Zone 18N, NAD 1983





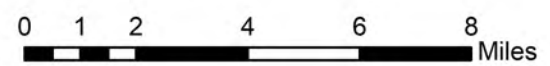
LIS Cable Fund Mapping Phase 2: Spring 2018 Solitary hydroid - *Corymorpha pendula*

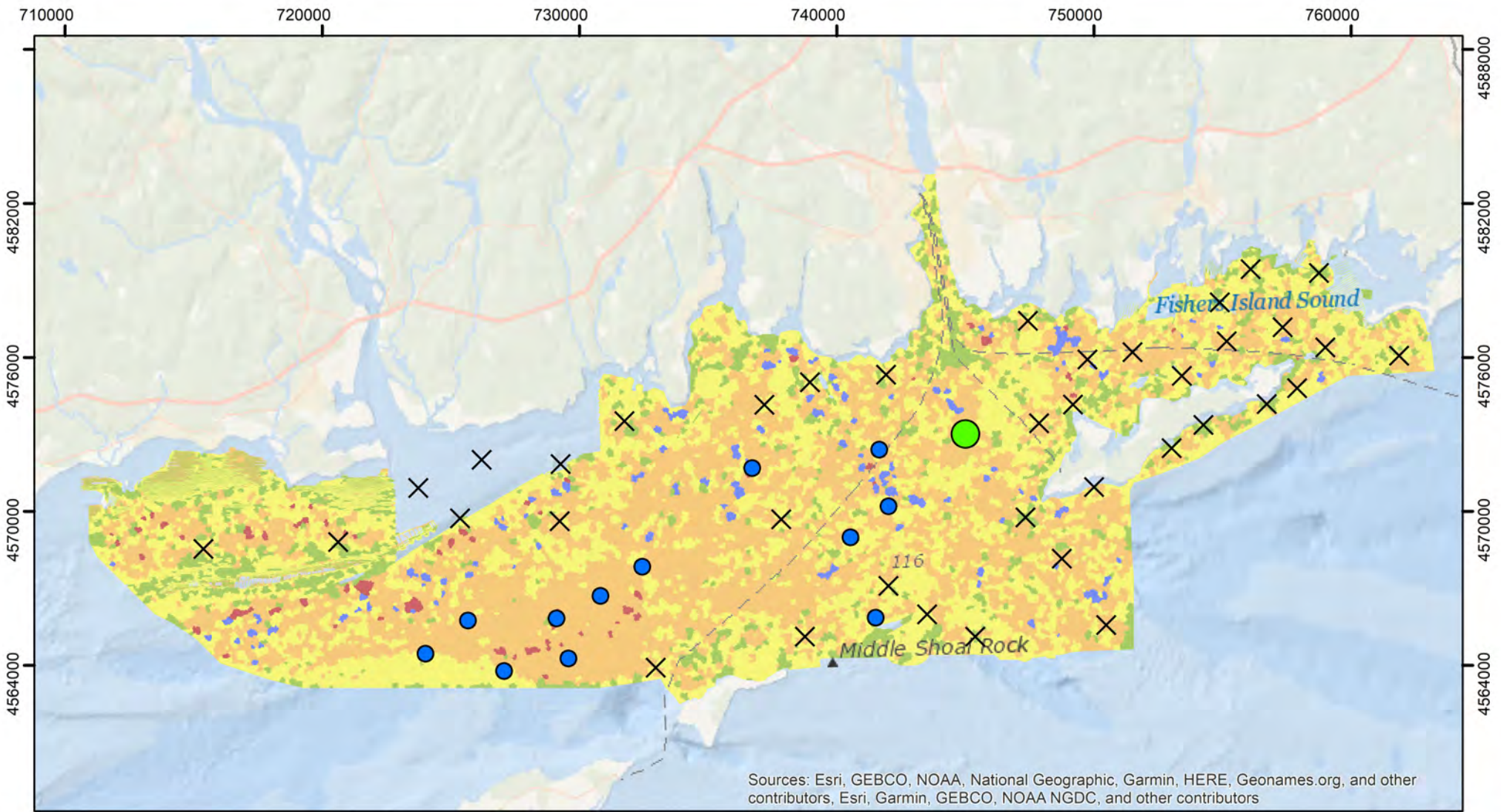


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Spring 2018 Solitary hydroid - *Corymorpha pendula*



Solitary hydroid Percent Cover

- X 0
- > 0 - 20
- 21 - 40

● 41 - 60

● 61 - 80

● 81 - 100

eCognition Classification

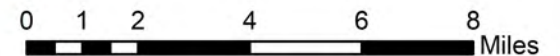
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

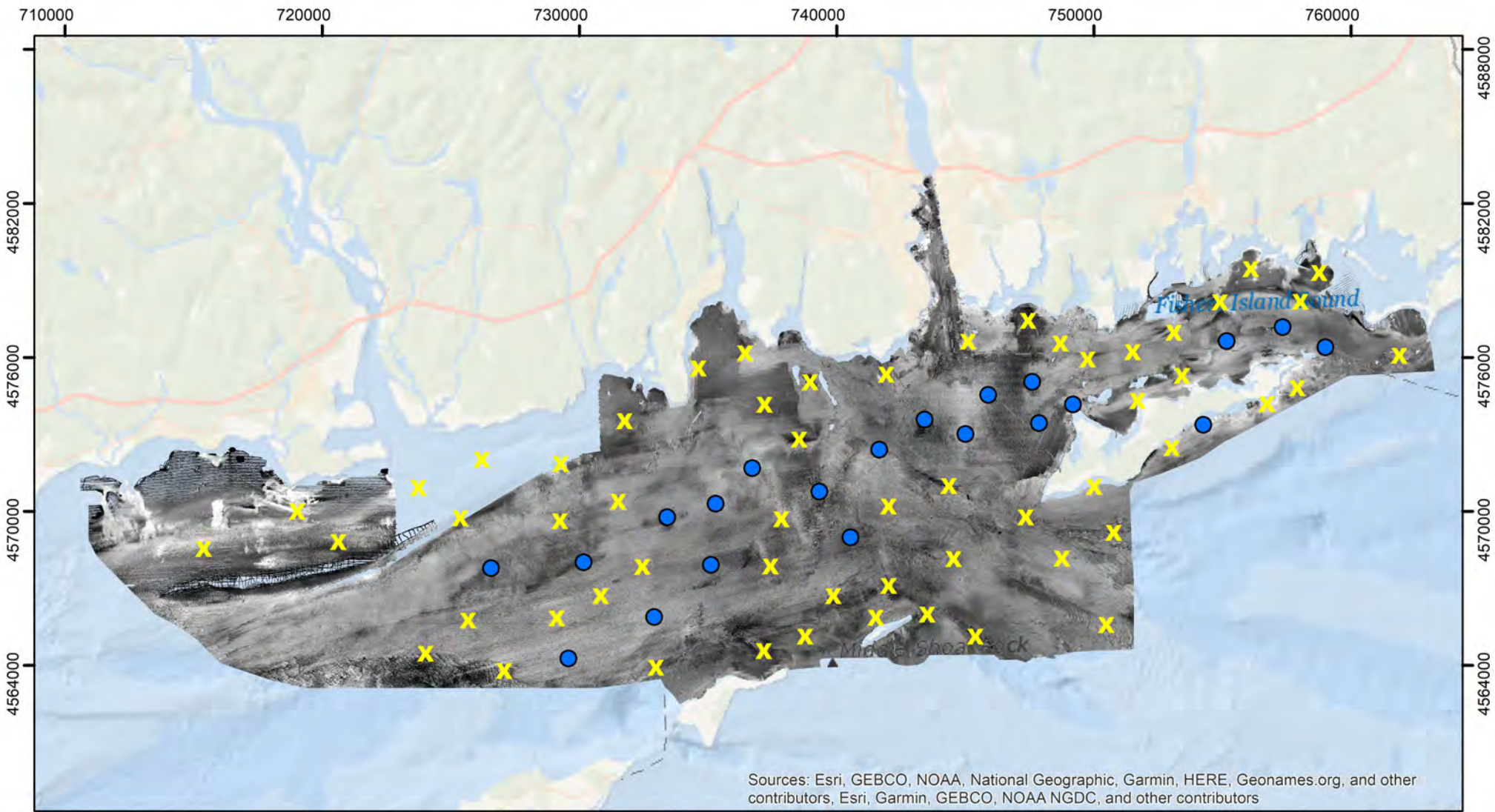


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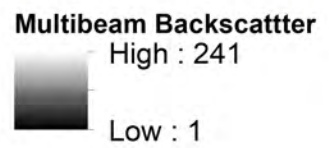
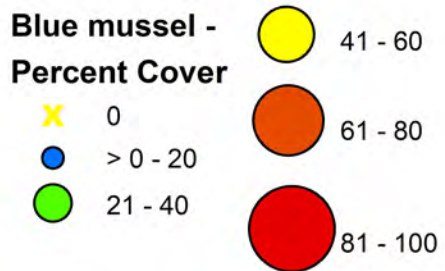
<https://lismap.uconn.edu/>

Horizontal Coordinate System UTM Zone 18N, NAD 1983





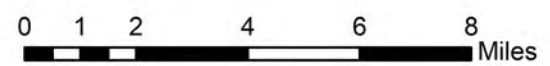
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Blue mussel - *Mytilus edulis*

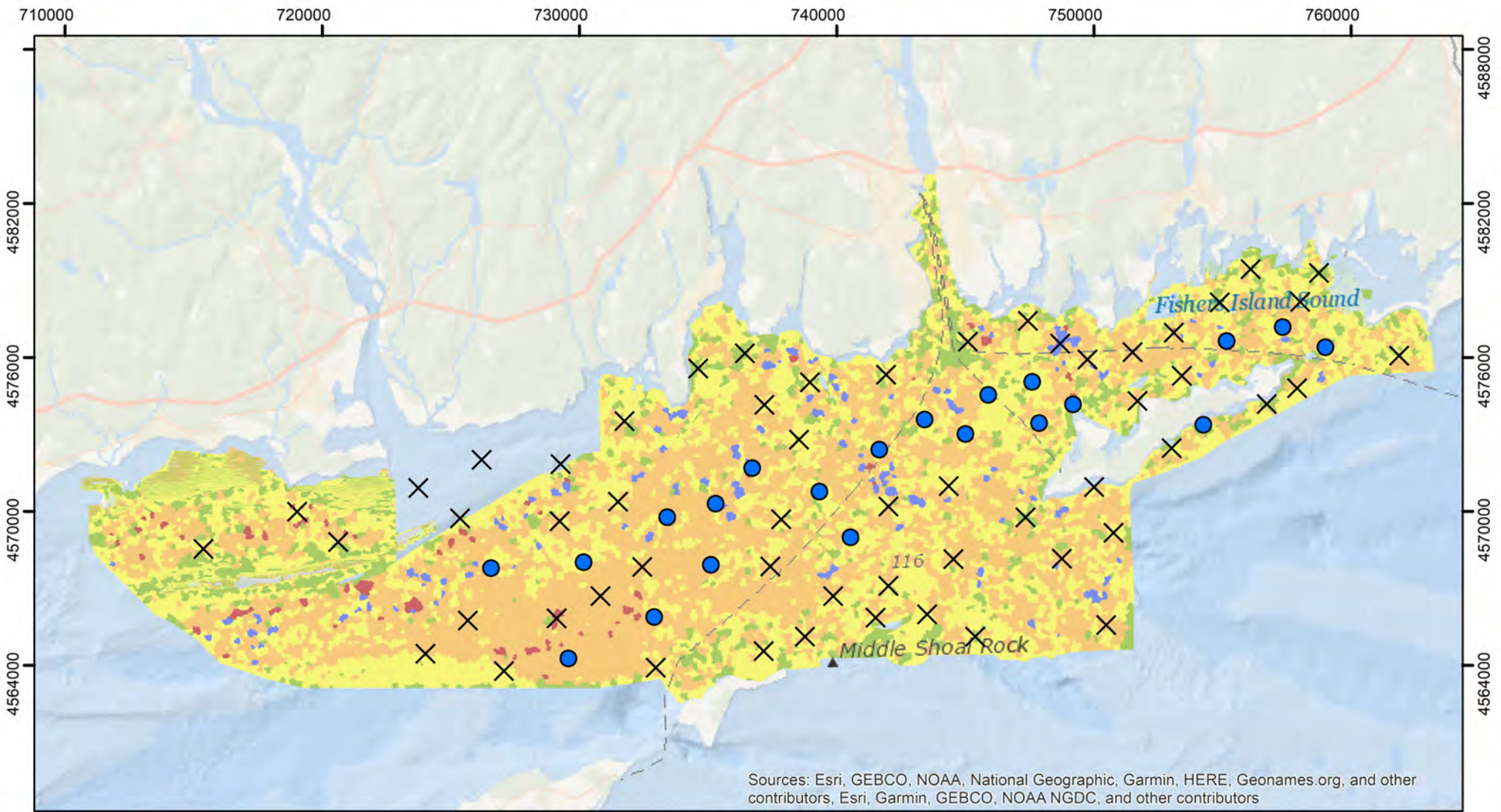


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Blue mussel - *Mytilus edulis*

Blue mussel - Percent Cover

X 0

● > 0 - 20

● 21 - 40

● 41 - 60

● 61 - 80

● 81 - 100

eCognition Classification

■ A - Sandy Silt

■ B - Silty Sand

■ C - Gravel/Sand

■ D - Gravelly Sand

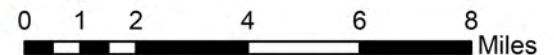
■ E - Sandy Gravel

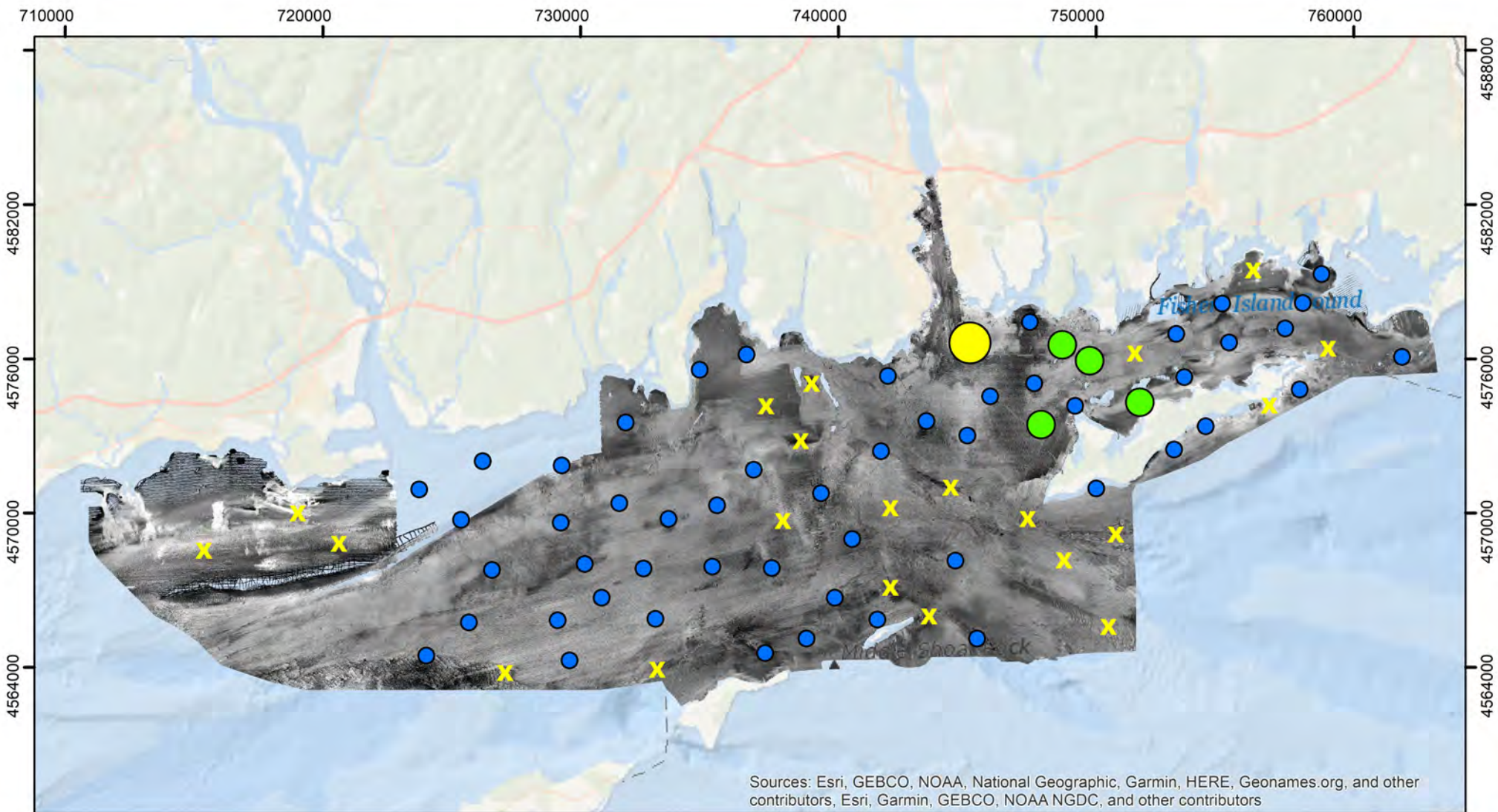


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Horizontal Coordinate System UTM Zone 18N, NAD 1983

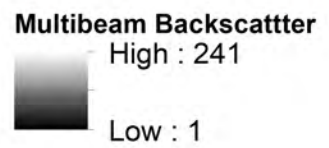
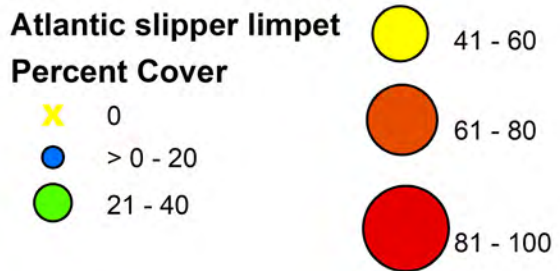




Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



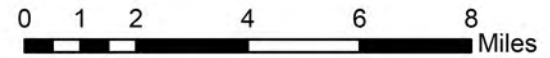
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Atlantic slipper limpet- *Crepidula fornicata*

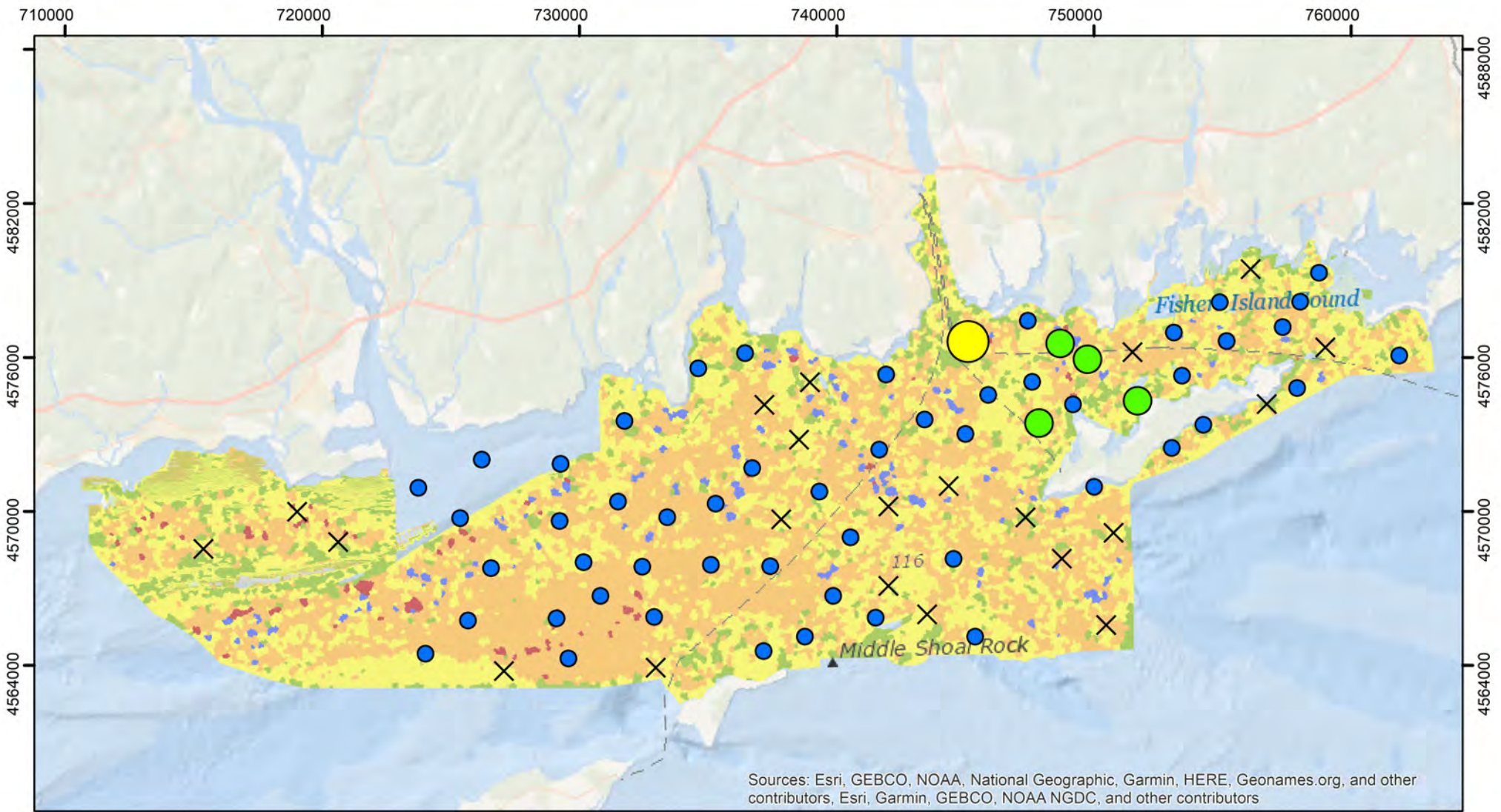


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Atlantic slipper limpet- *Crepidula fornicata*



Atlantic slipper limpet Percent Cover

- × 0
- > 0 - 20
- 21 - 40

- 41 - 60
- 61 - 80
- 81 - 100

eCognition Classification

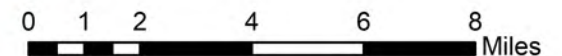
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

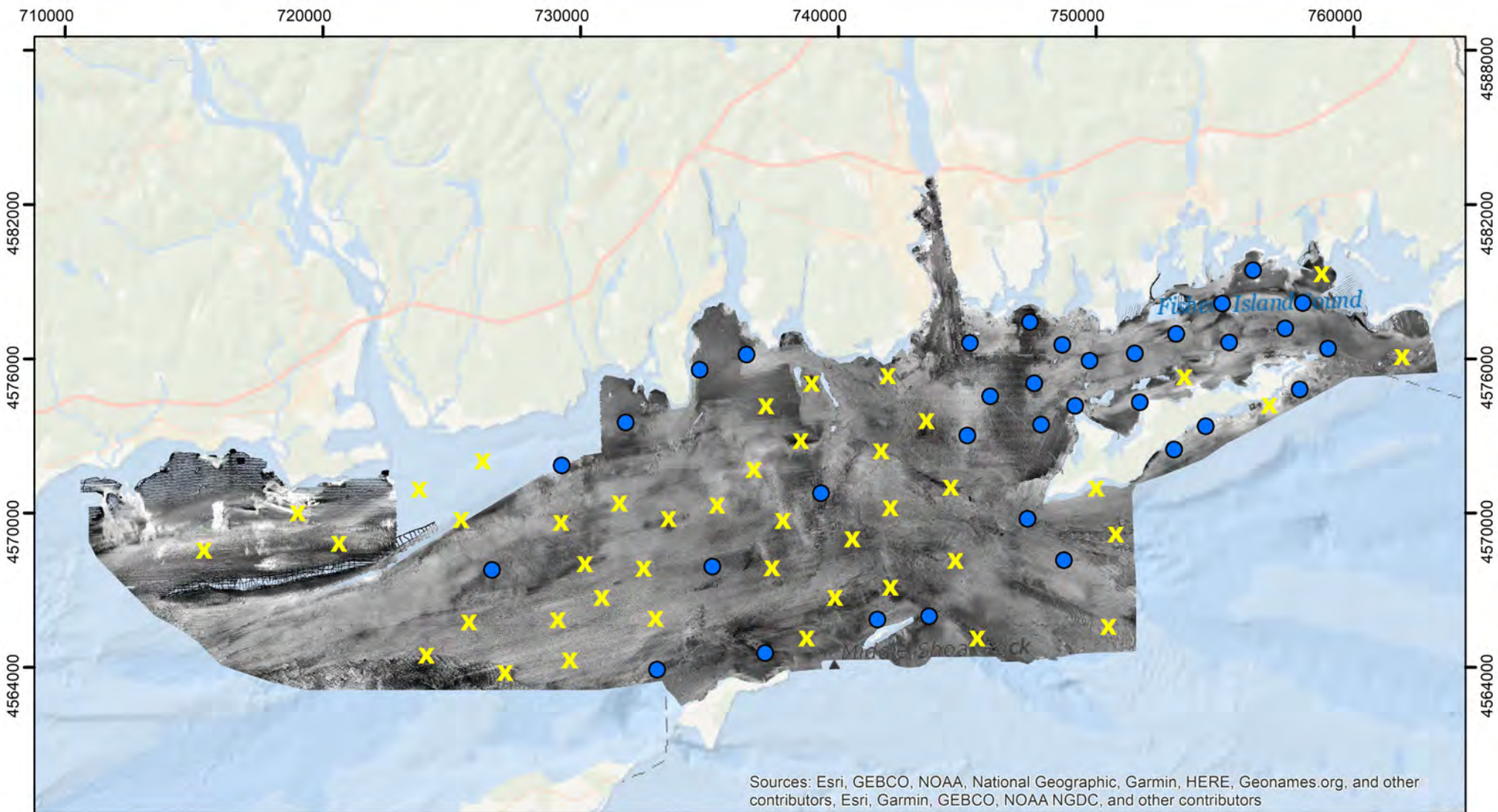


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





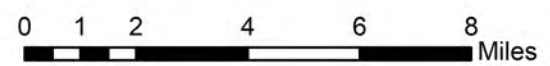
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Sponge - *Cliona* spp.

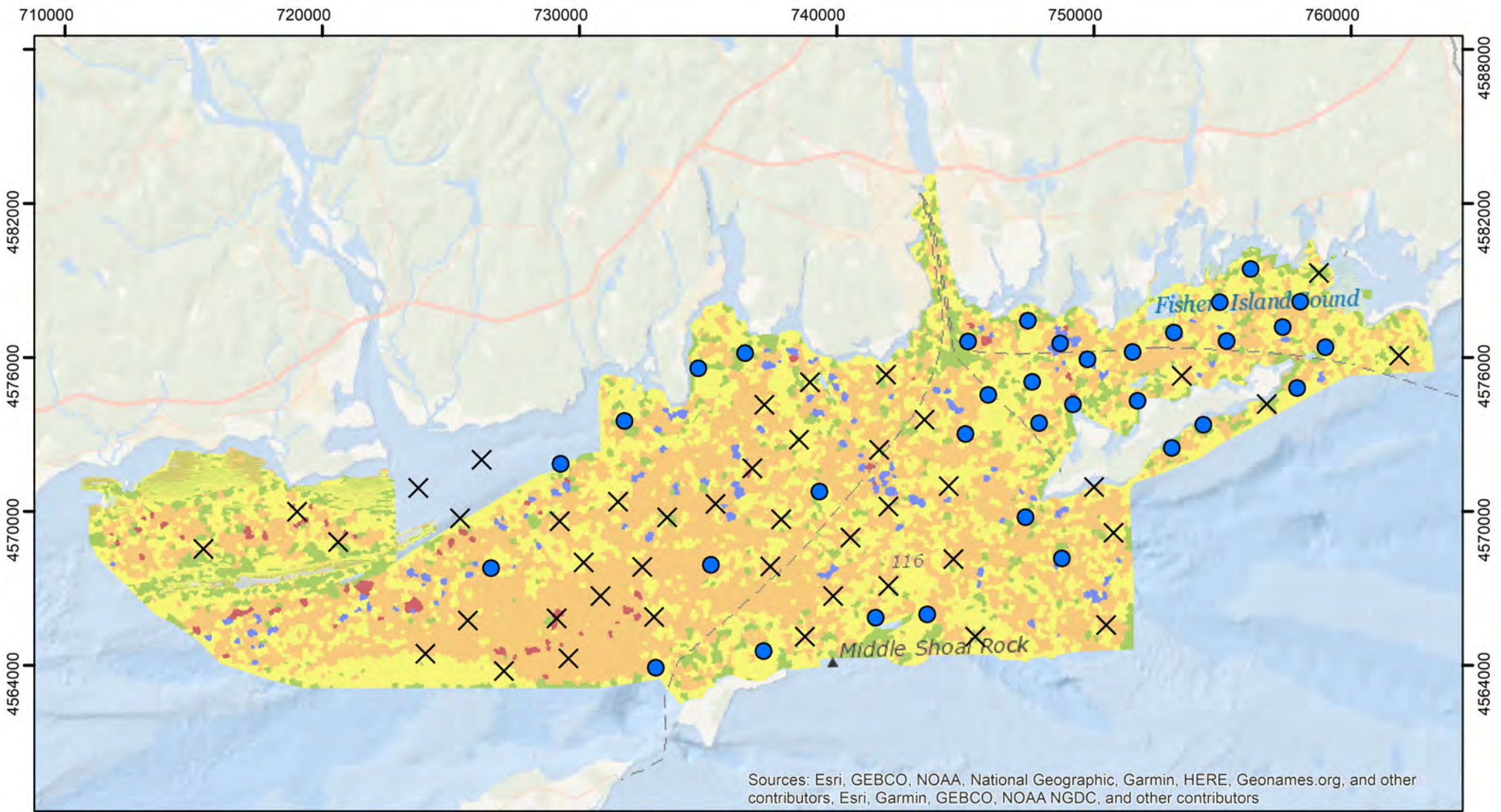


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LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Sponge - *Cliona spp.*



Sponge

Percent Cover



0



> 0 - 20



21 - 40



41 - 60



61 - 80



81 - 100

eCognition Classification

A - Sandy Silt

B - Silty Sand

C - Gravel/Sand

D - Gravelly Sand

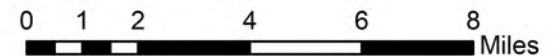
E - Sandy Gravel

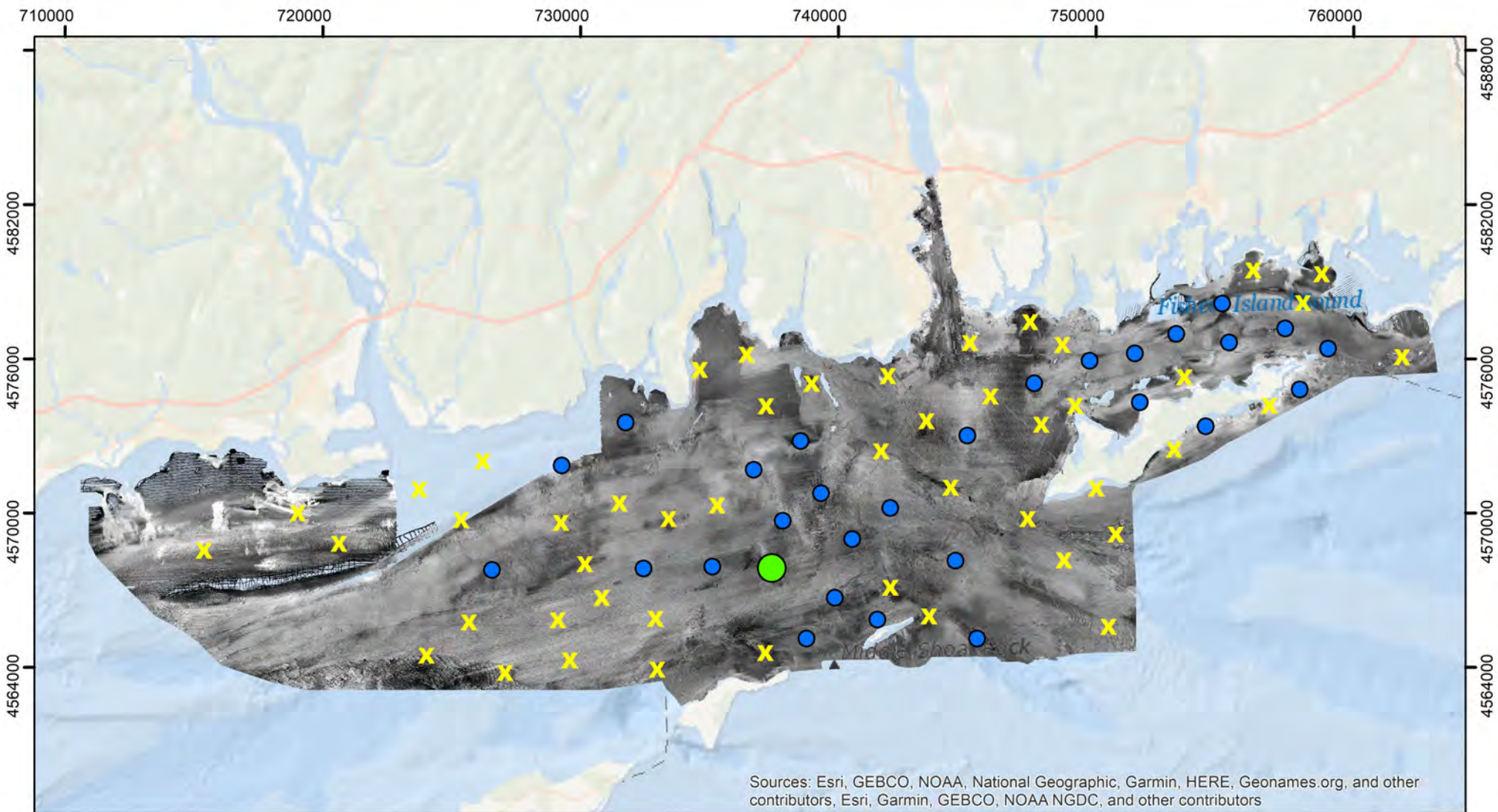


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors, Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



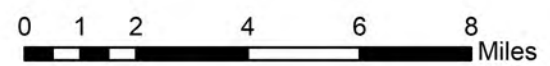
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Northern Star Coral- *Astrangia poculata*

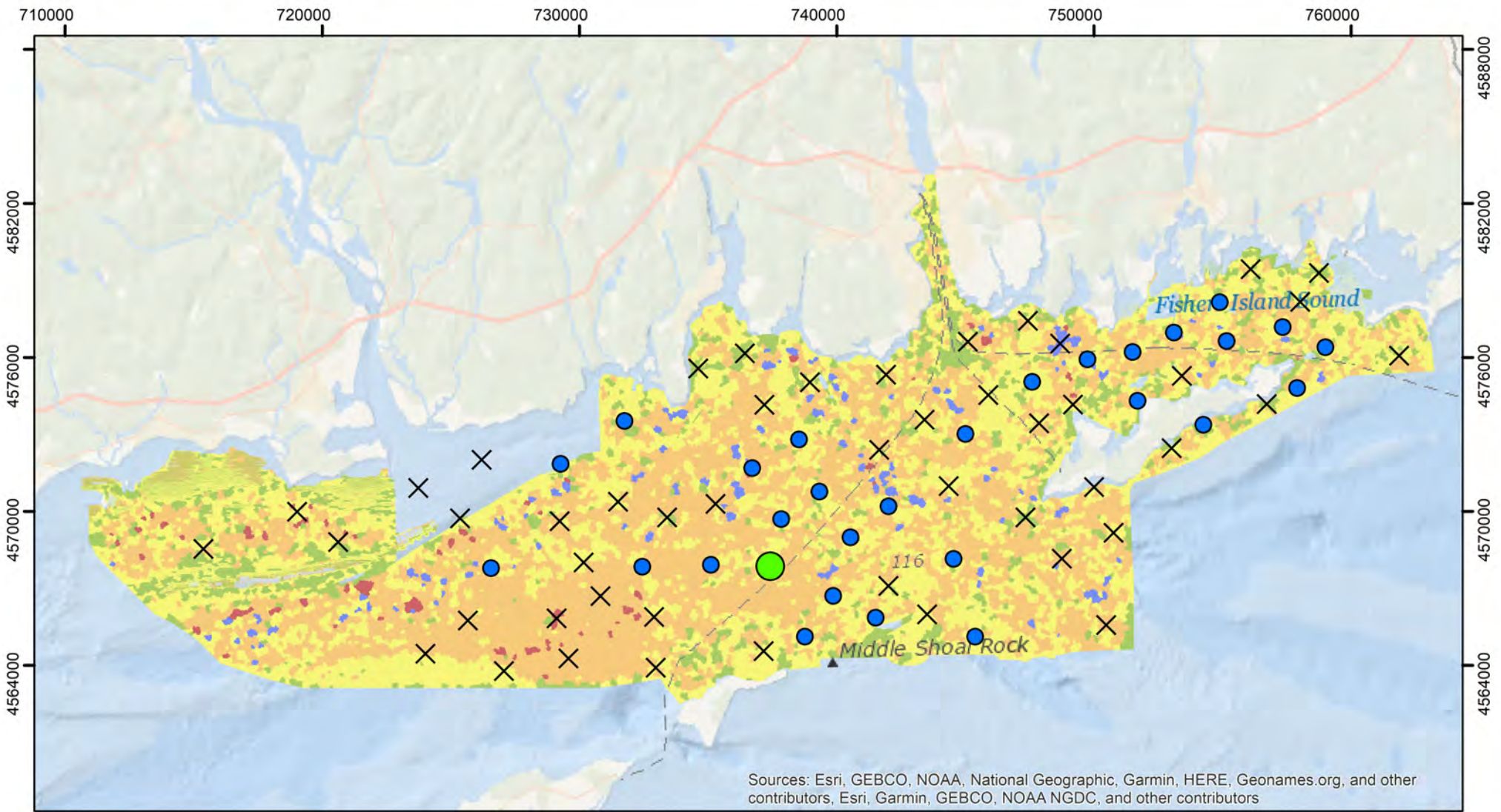


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Northern Star Coral- *Astrangia poculata*



Northern star coral Percent Cover

- ✕ 0
- > 0 - 20
- 21 - 40

- 41 - 60
- 61 - 80
- 81 - 100

eCognition Classification

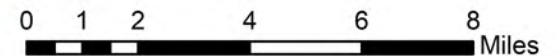
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

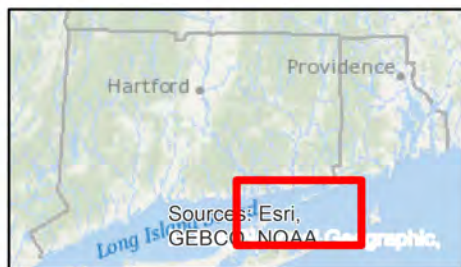
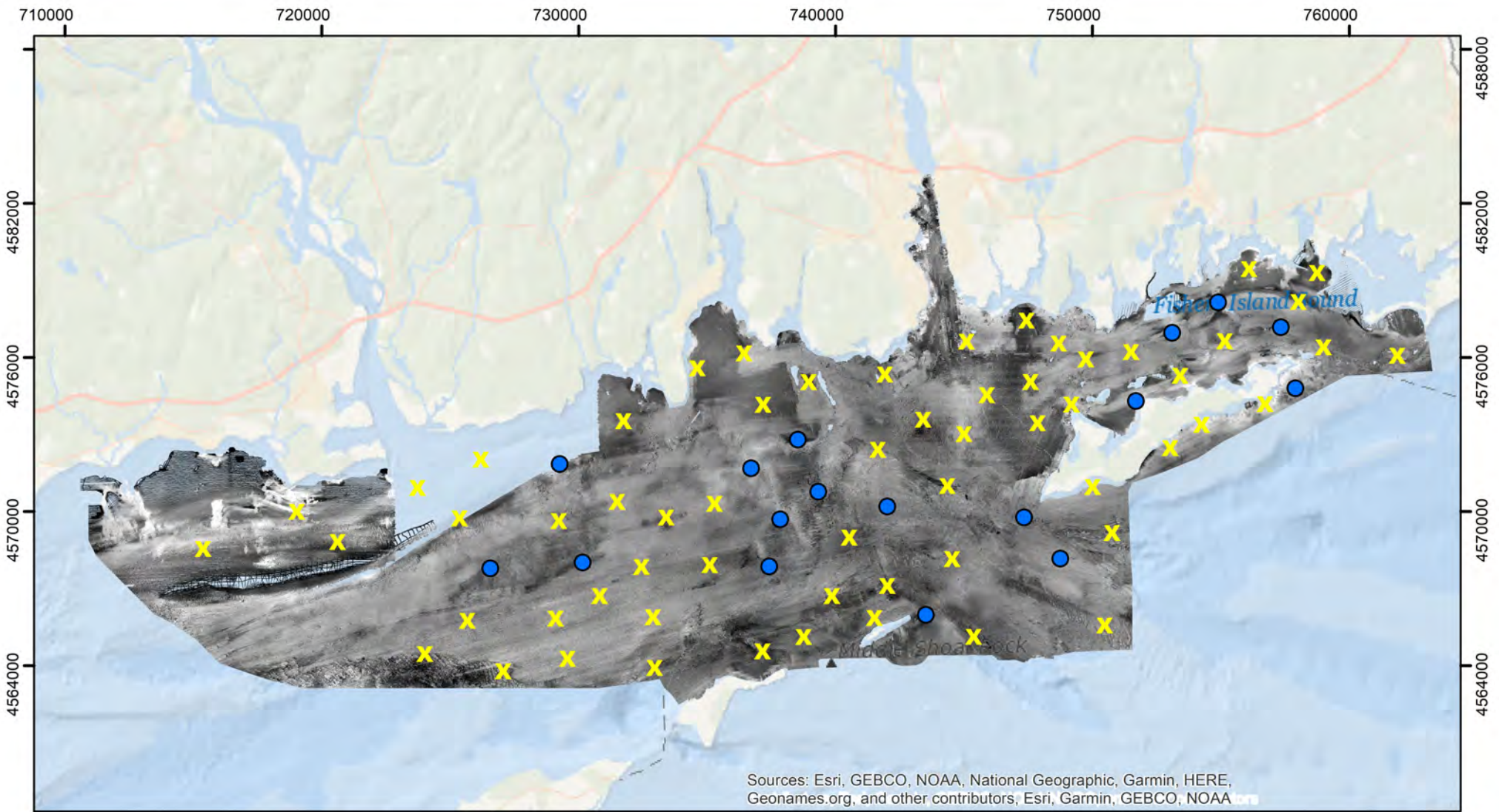


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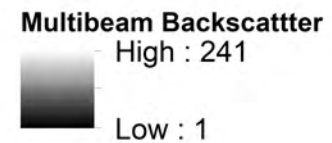
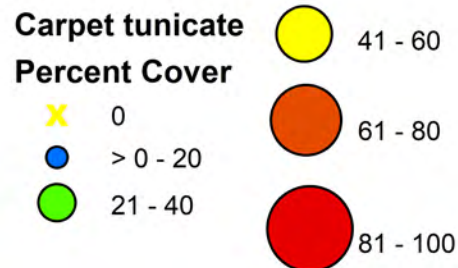
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Horizontal Coordinate System UTM Zone 18N, NAD 1983





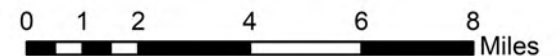
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Carpet tunicate- *Didemnum vexillum*

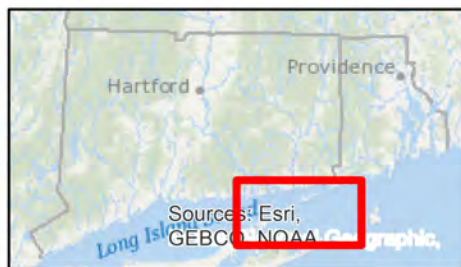
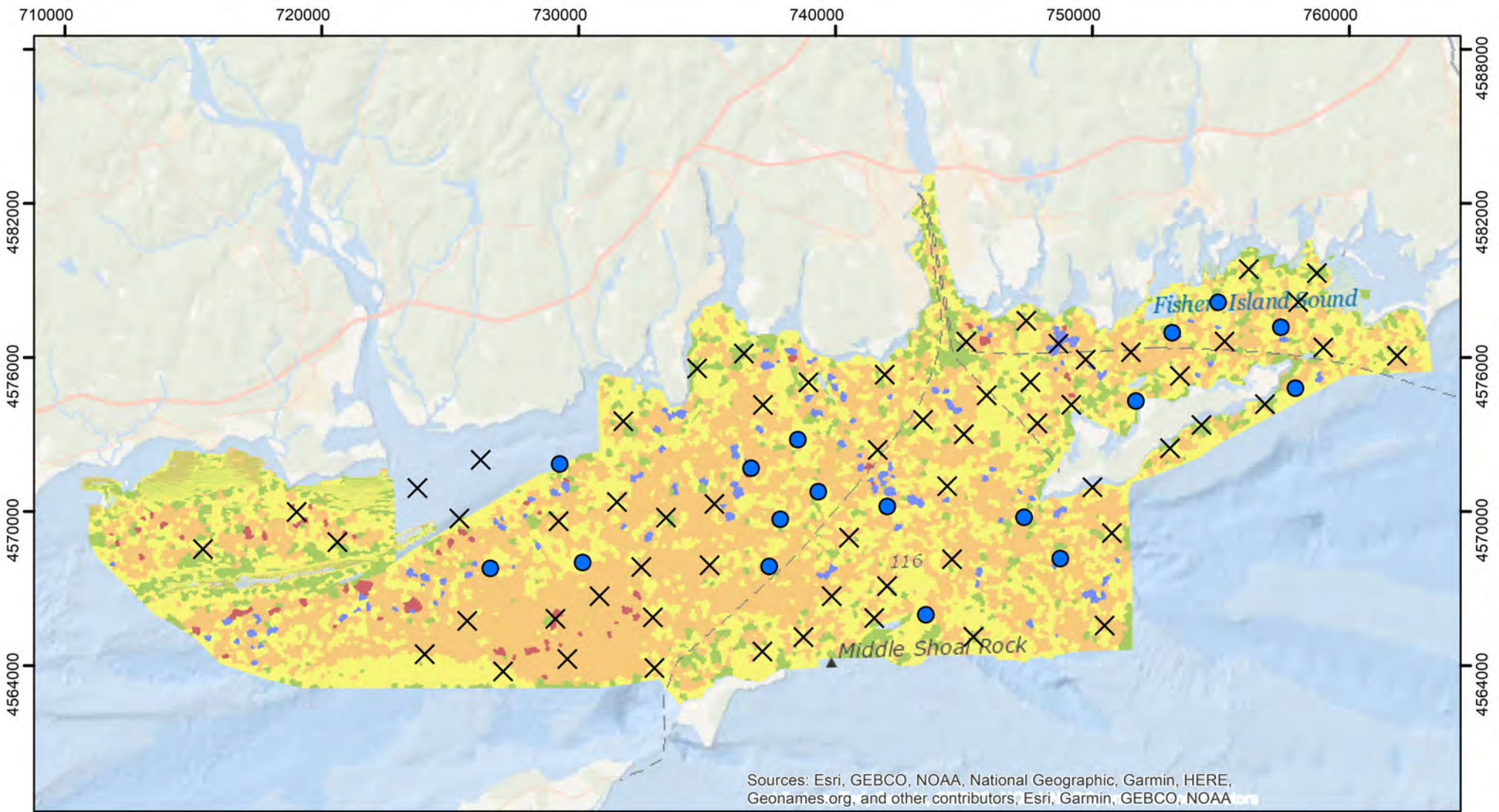


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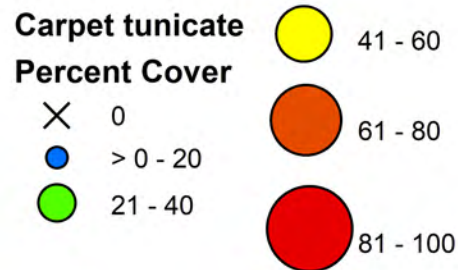
<https://lismap.uconn.edu/>

Horizontal Coordinate System UTM Zone 18N, NAD 1983





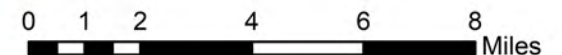
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Carpet tunicate- *Didemnum vexillum*

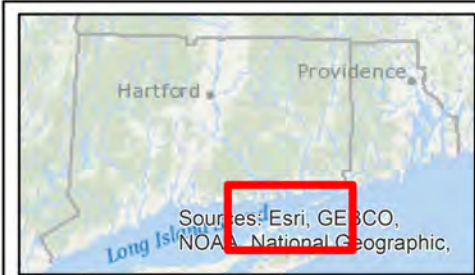
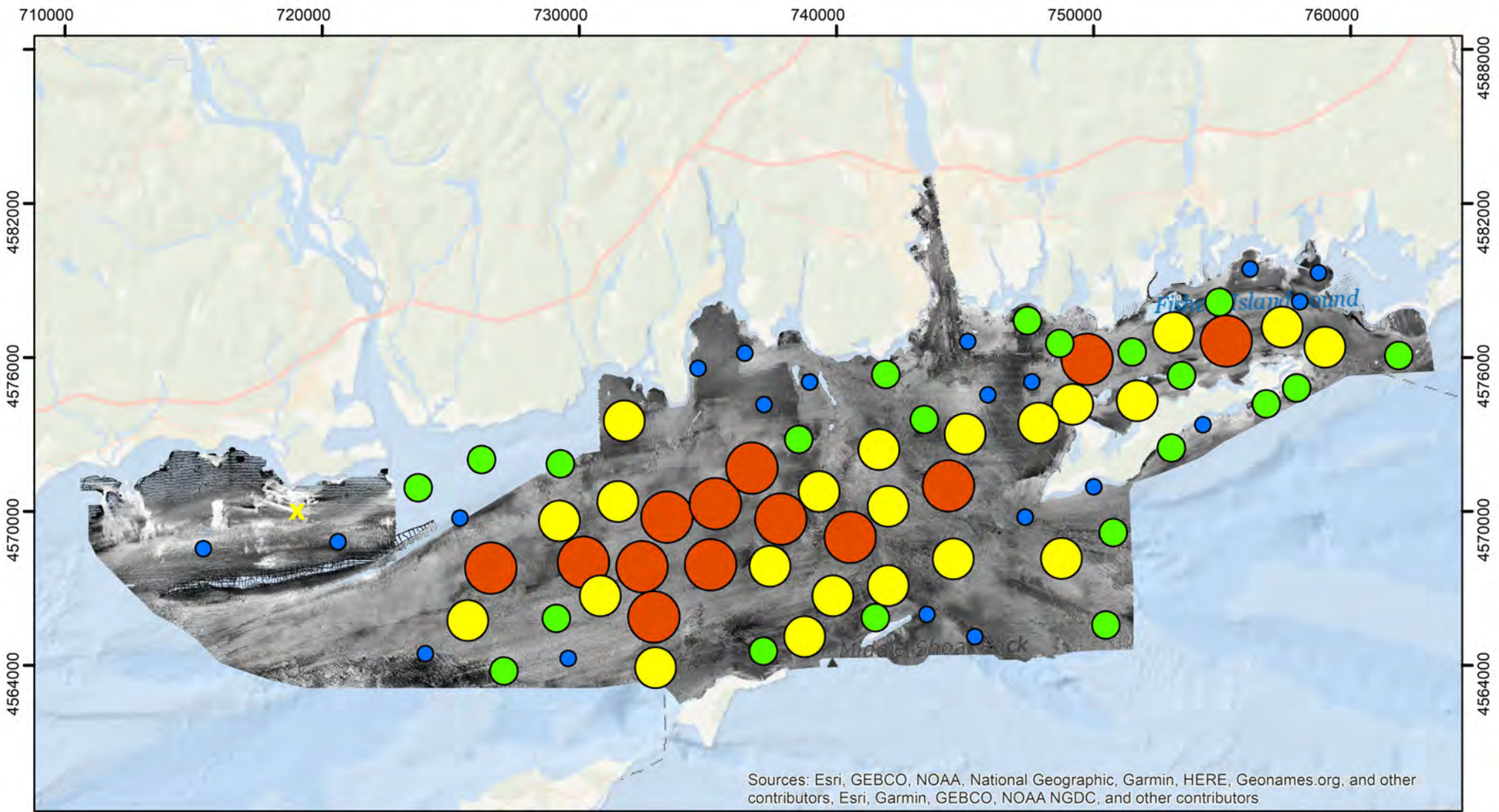


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Shells - Whole and Partial Valves



Shells - Whole and Partial Valves

Percent Cover

- X 0
- > 0 - 20
- .2 - 40

- 41 - 60
- 61 - 80
- 81 - 100

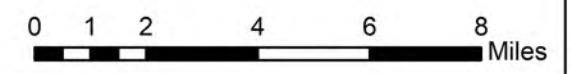
Multibeam Backscatter

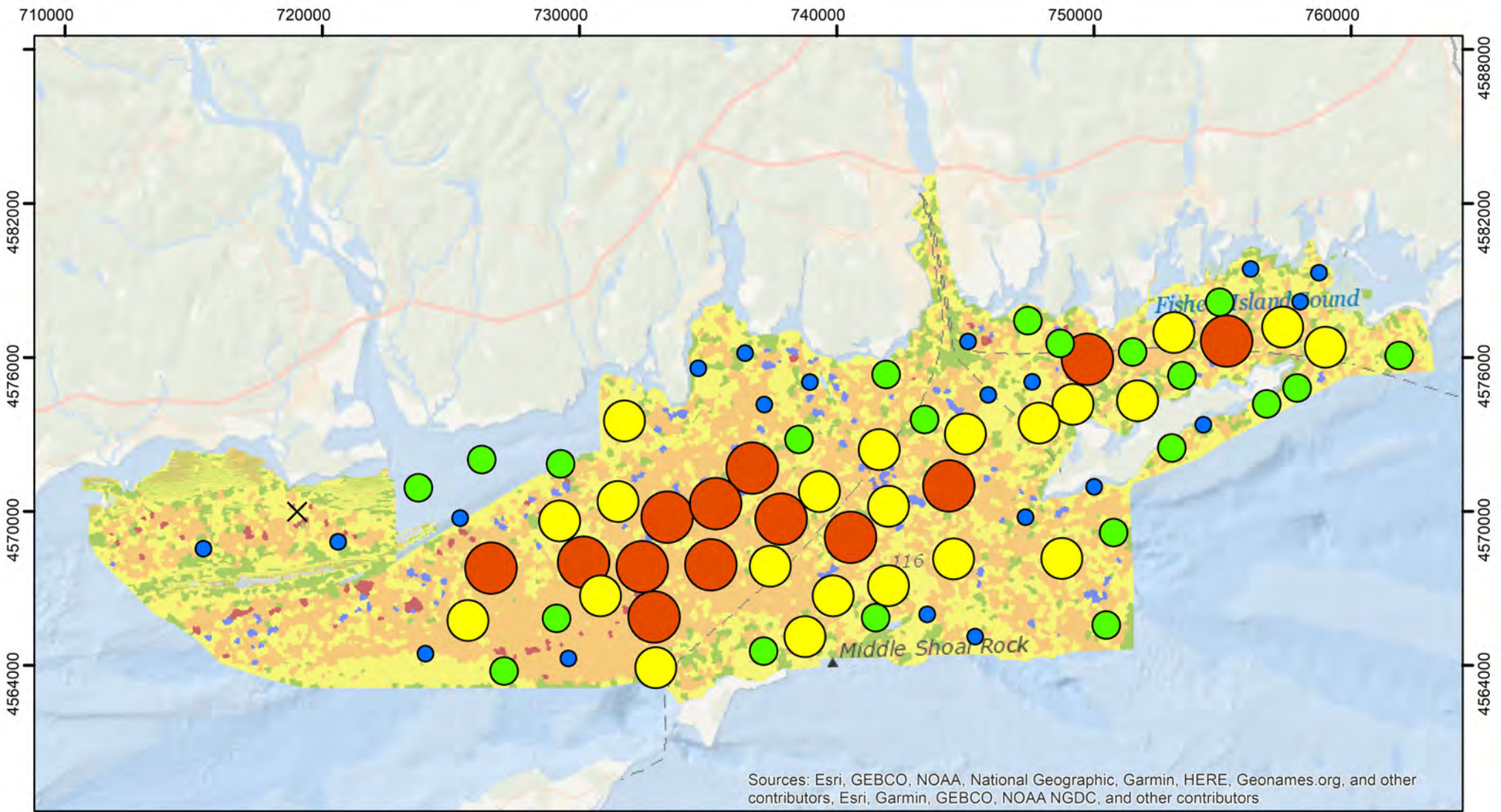


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





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LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Shells - Whole and Partial Vavles



Shells - Whole and Partial Valves

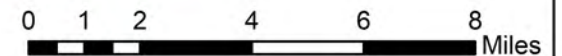
Percent Cover

- X 0
- > 0 - 20
- .2 - 40

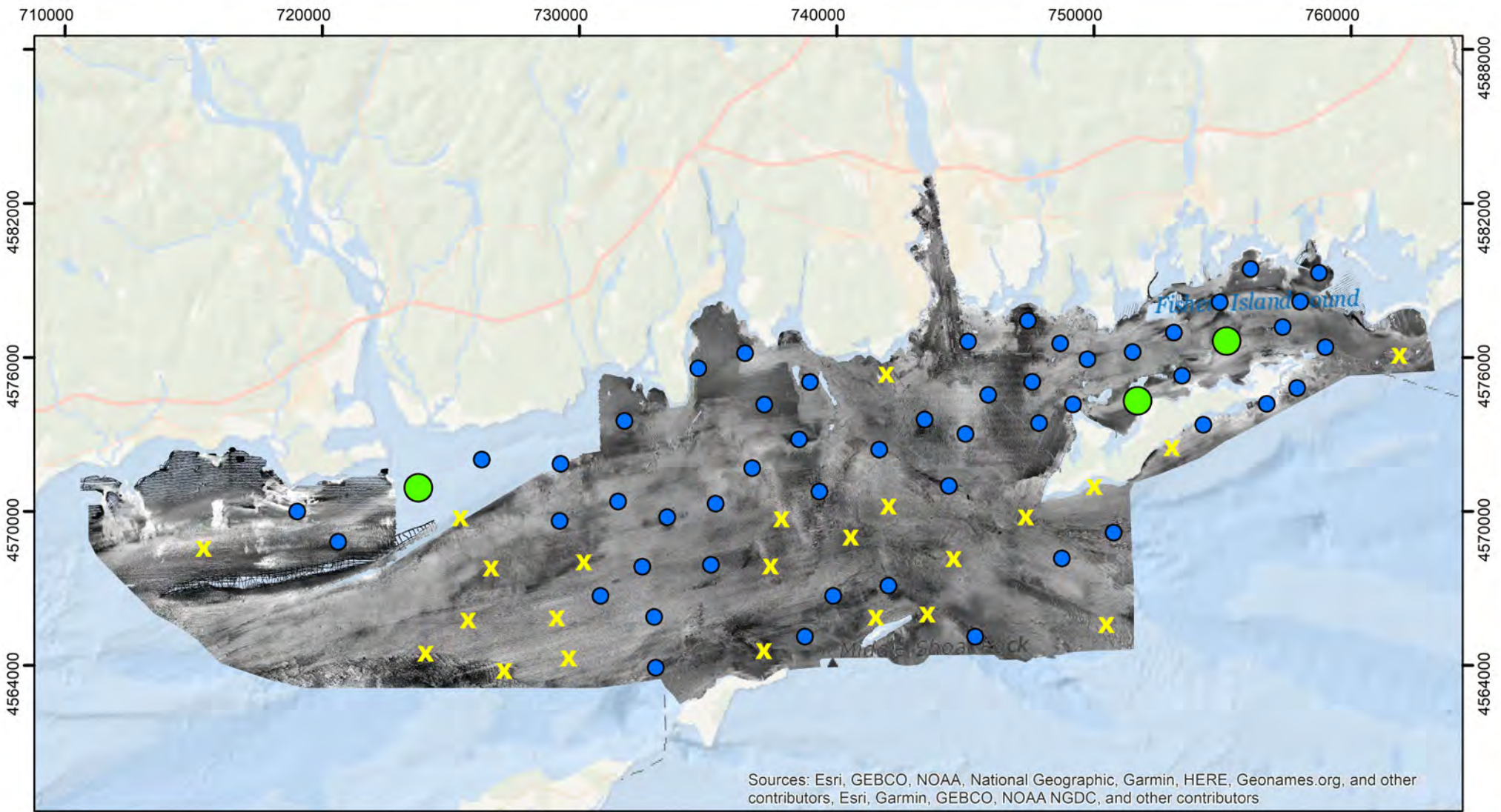
- 41 - 60
- 61 - 80
- 81 - 100

eCognition Classification

- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel



Horizontal Coordinate System UTM Zone 18N, NAD 1983



LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 *Zostera* Debris

Zostera Percent Cover

- X 0
- > 0 - 20
- 21 - 40
- 41 - 60

- 61 - 80
- 81 - 100

Multibeam Backscatter

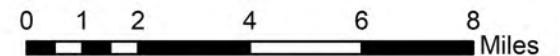
- High : 241
- Low : 1

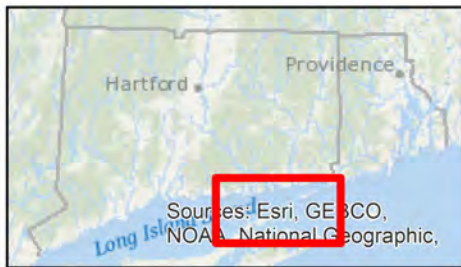
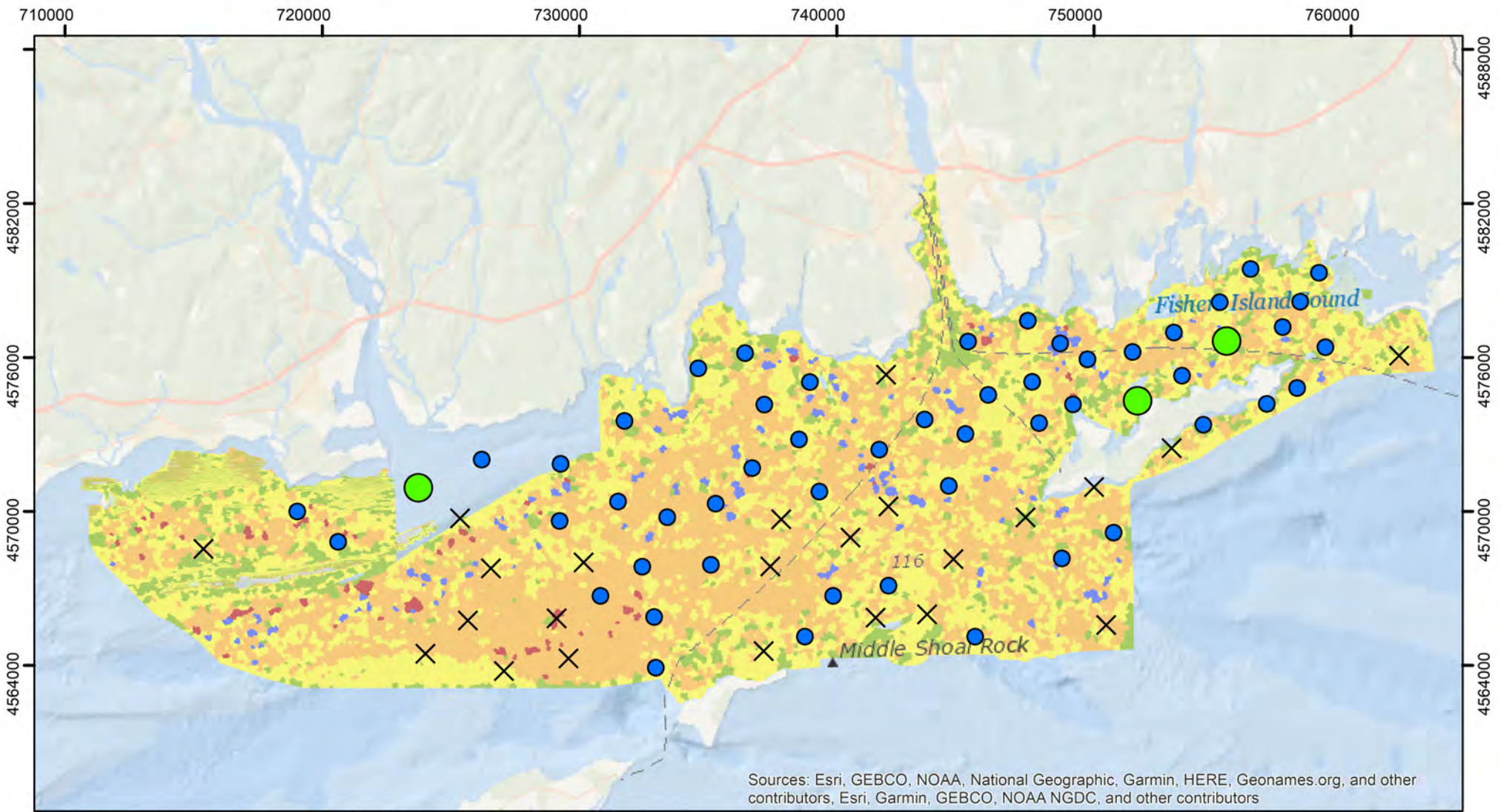


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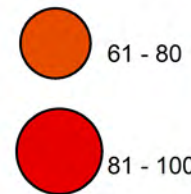
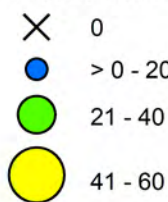
77
Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 *Zostera* Debris

Zostera Percent Cover



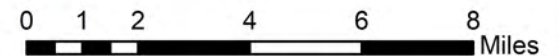
eCognition Classification

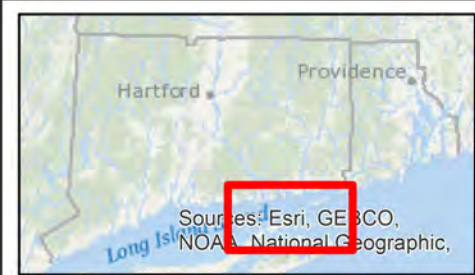
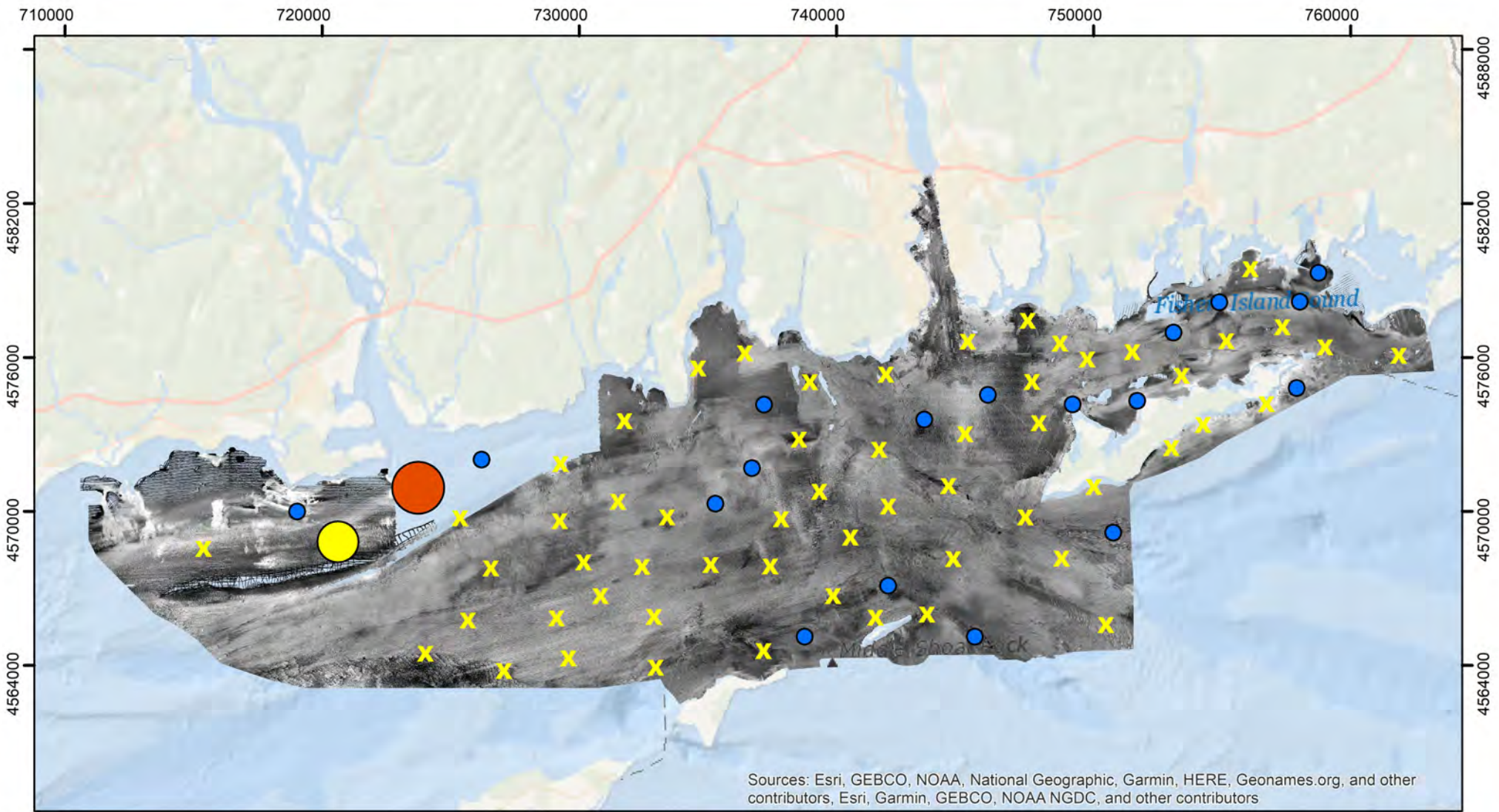


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78
Horizontal Coordinate System UTM Zone 18N, NAD 1983





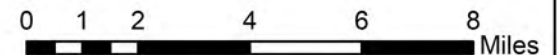
LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Terrestrial Debris

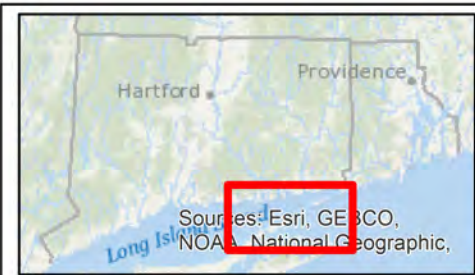
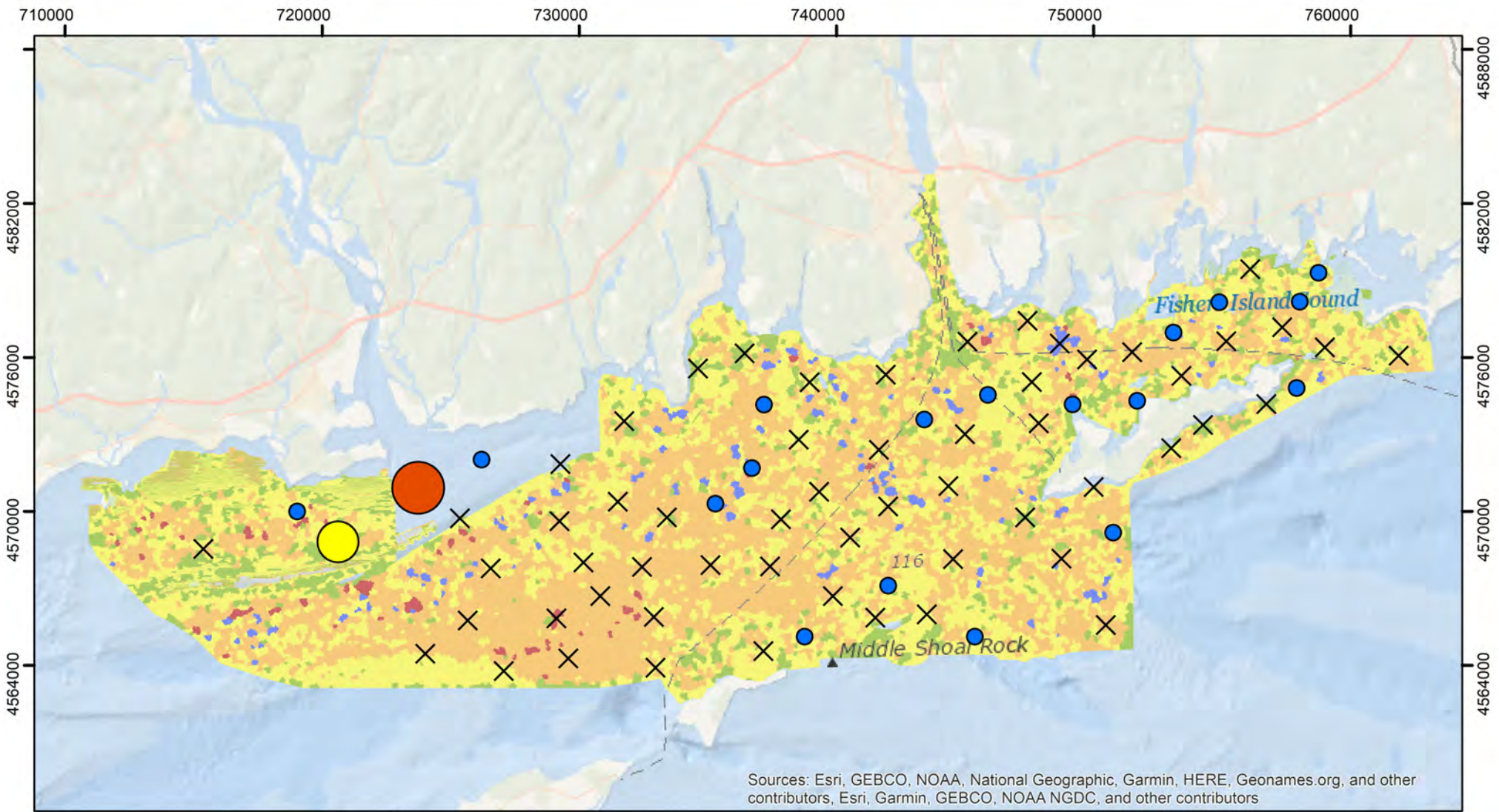


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Fall 2017 and Spring 2018 Terrestrial Debris



Terrestrial Debris

Percent Cover

- X 0
- (blue) > 0 - 20
- (green) 21 - 40
- (yellow) 41 - 60
- (orange) 61 - 80
- (red) 81 - 100

eCognition Classification

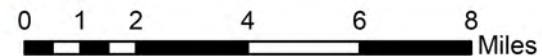
- (blue) A - Sandy Silt
- (green) B - Silty Sand
- (yellow) C - Gravel/Sand
- (orange) D - Gravelly Sand
- (red) E - Sandy Gravel

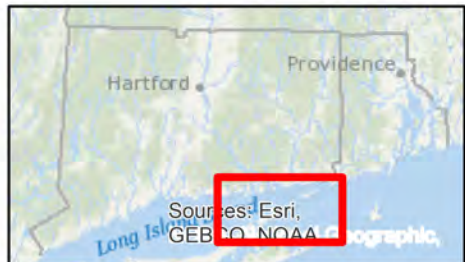
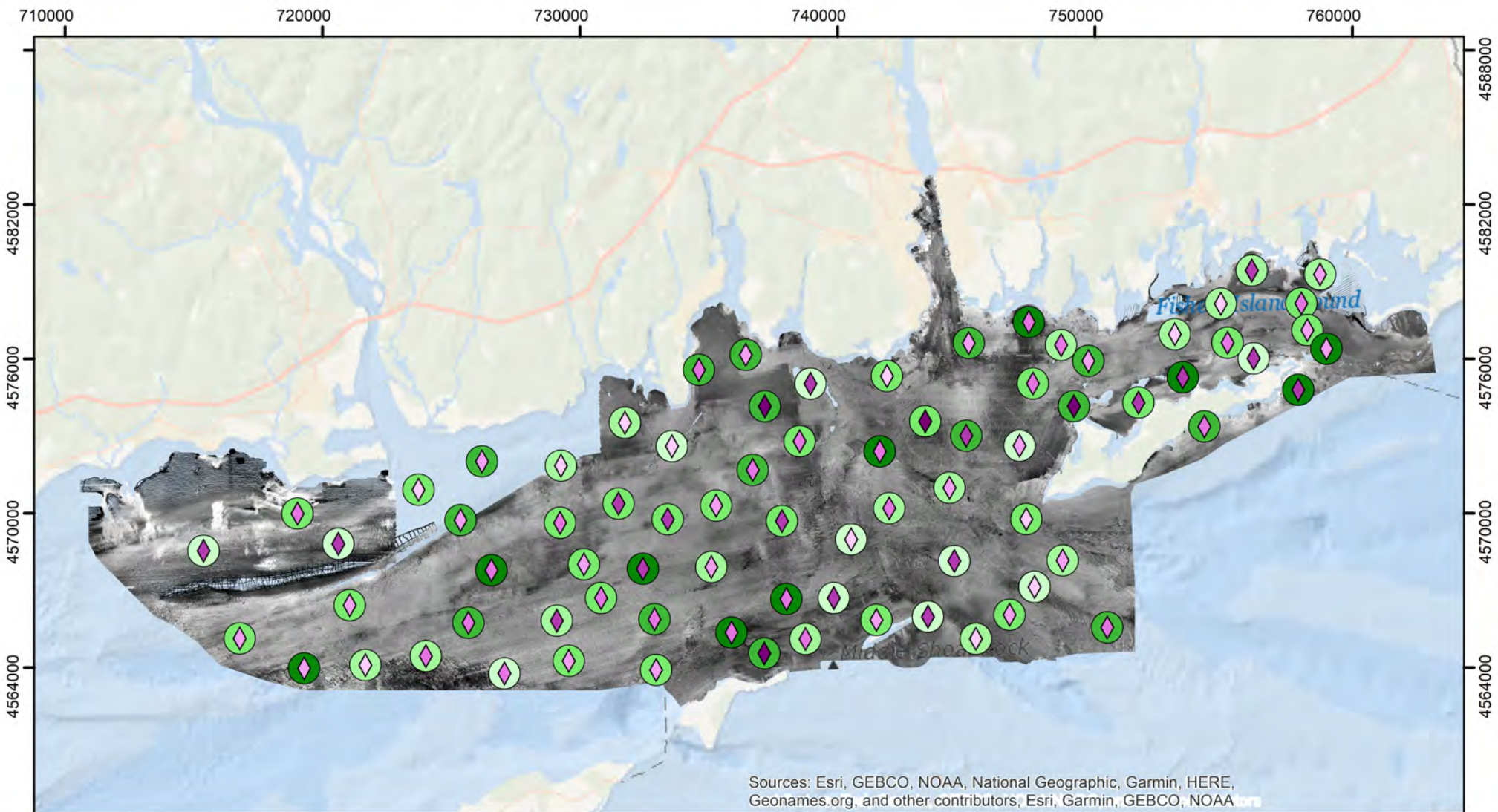


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LIS Cable Fund Mapping Phase 2: Taxonomic Richness

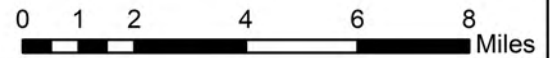
Infauna		Epifauna	
	0 - 10		1.00 - 2.98
	11 - 19		2.99 - 4.96
	20 - 29		4.97 - 6.94
	30 - 38		6.95 - 8.92
	39 - 47		8.93 - 10.90

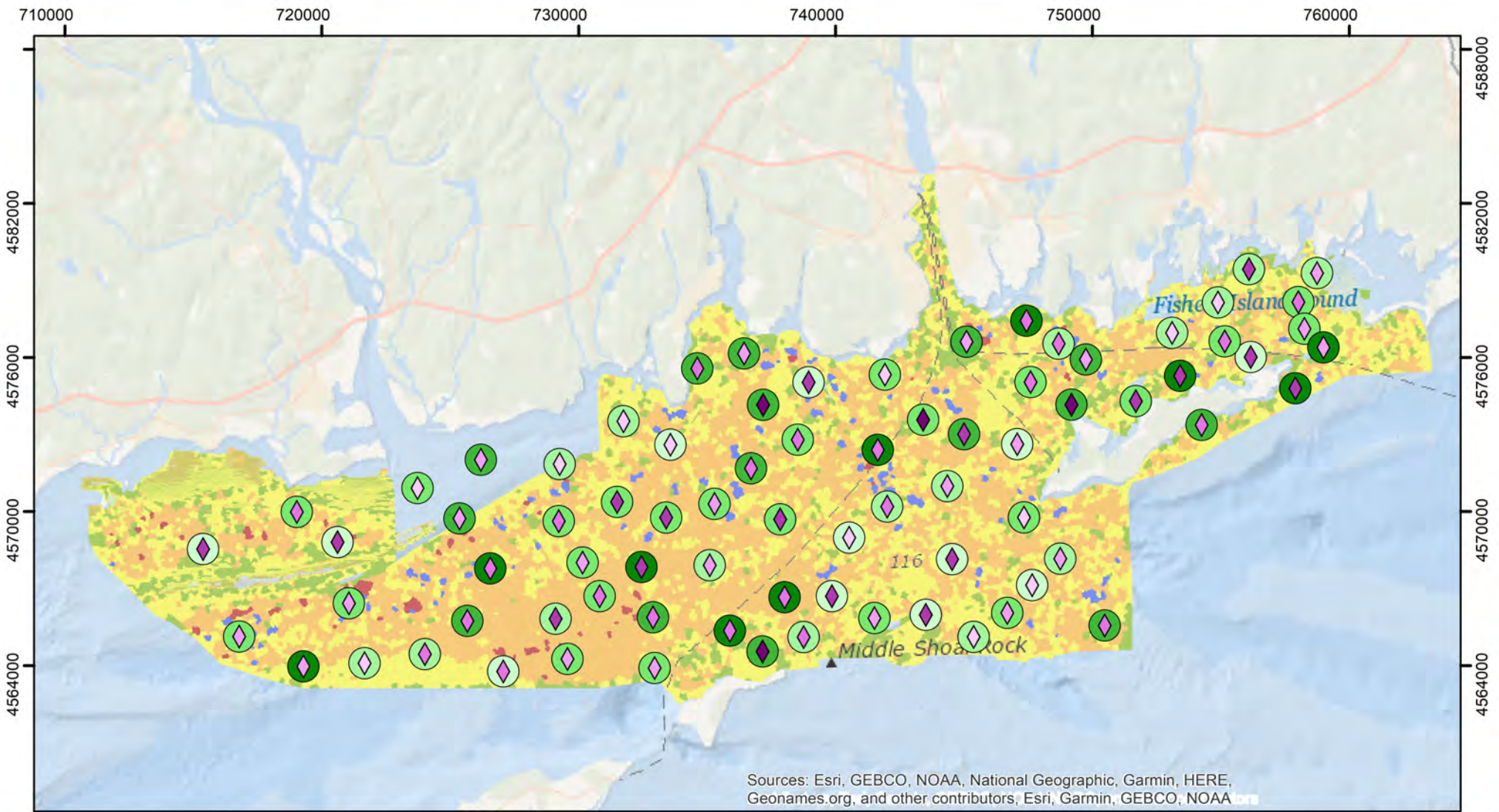


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Taxonomic Richness

Infauna

- 0 - 10
- 11 - 19
- 20 - 29
- 30 - 38
- 39 - 47

Epifauna

- 1.00 - 2.98
- 2.99 - 4.96
- 4.97 - 6.94
- 6.95 - 8.92
- 8.93 - 10.90

eCognition Classification

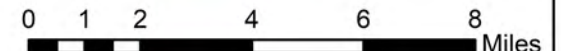
- A - Sandy Silt
- B - Silty Sand
- C - Gravel/Sand
- D - Gravelly Sand
- E - Sandy Gravel

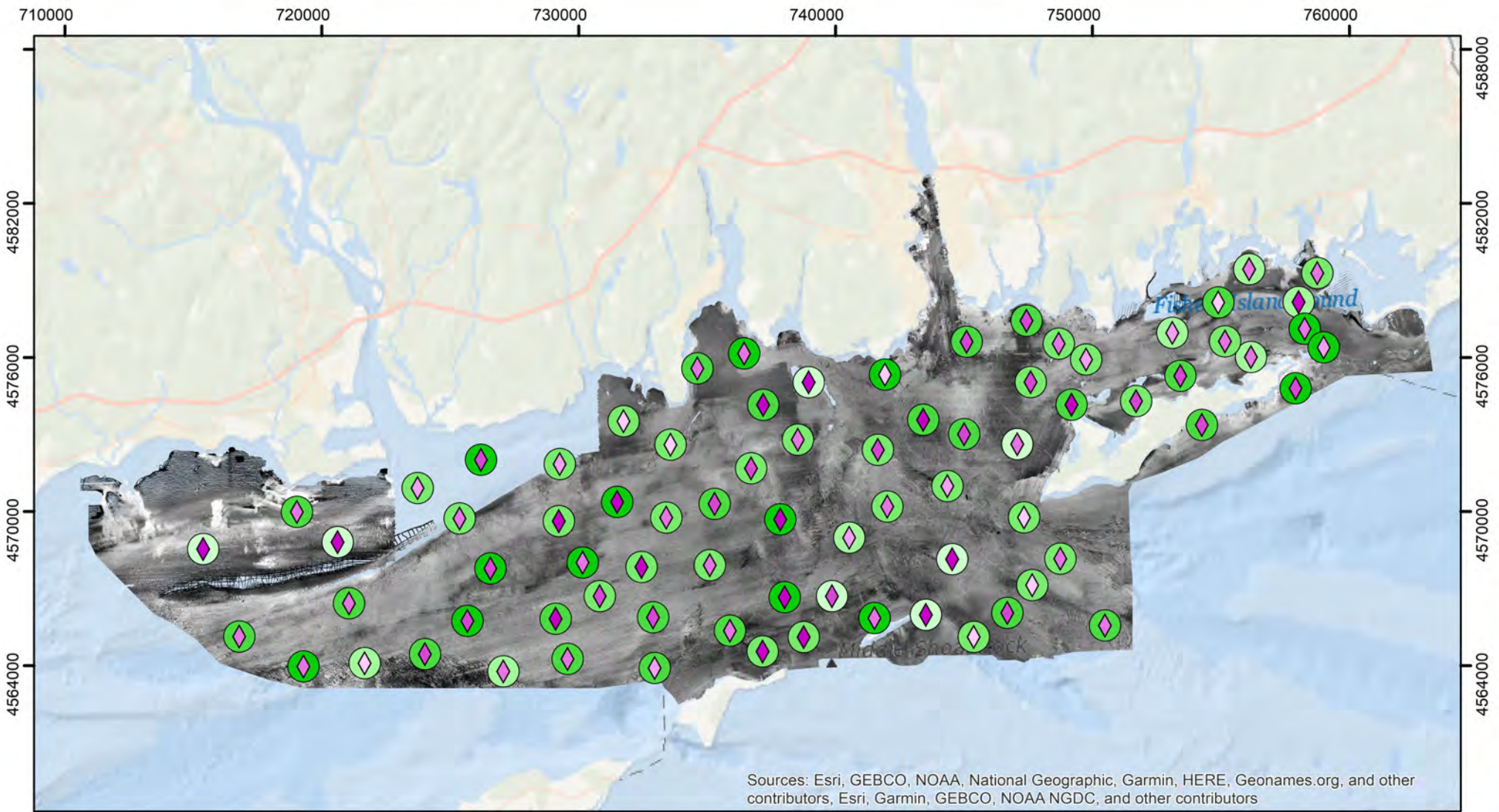


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Horizontal Coordinate System UTM Zone 18N, NAD 1983





LIS Cable Fund Mapping Phase 2: Diversity (Log H)

Infauna

Epifauna



0.00



0.00 - 0.20



0.01 - 0.58



0.21 - 0.32



0.59 - 0.87



0.33 - 0.48



0.88 - 1.10



0.49 - 0.57



1.11 - 1.40



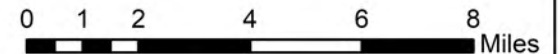
0.58 - 0.73

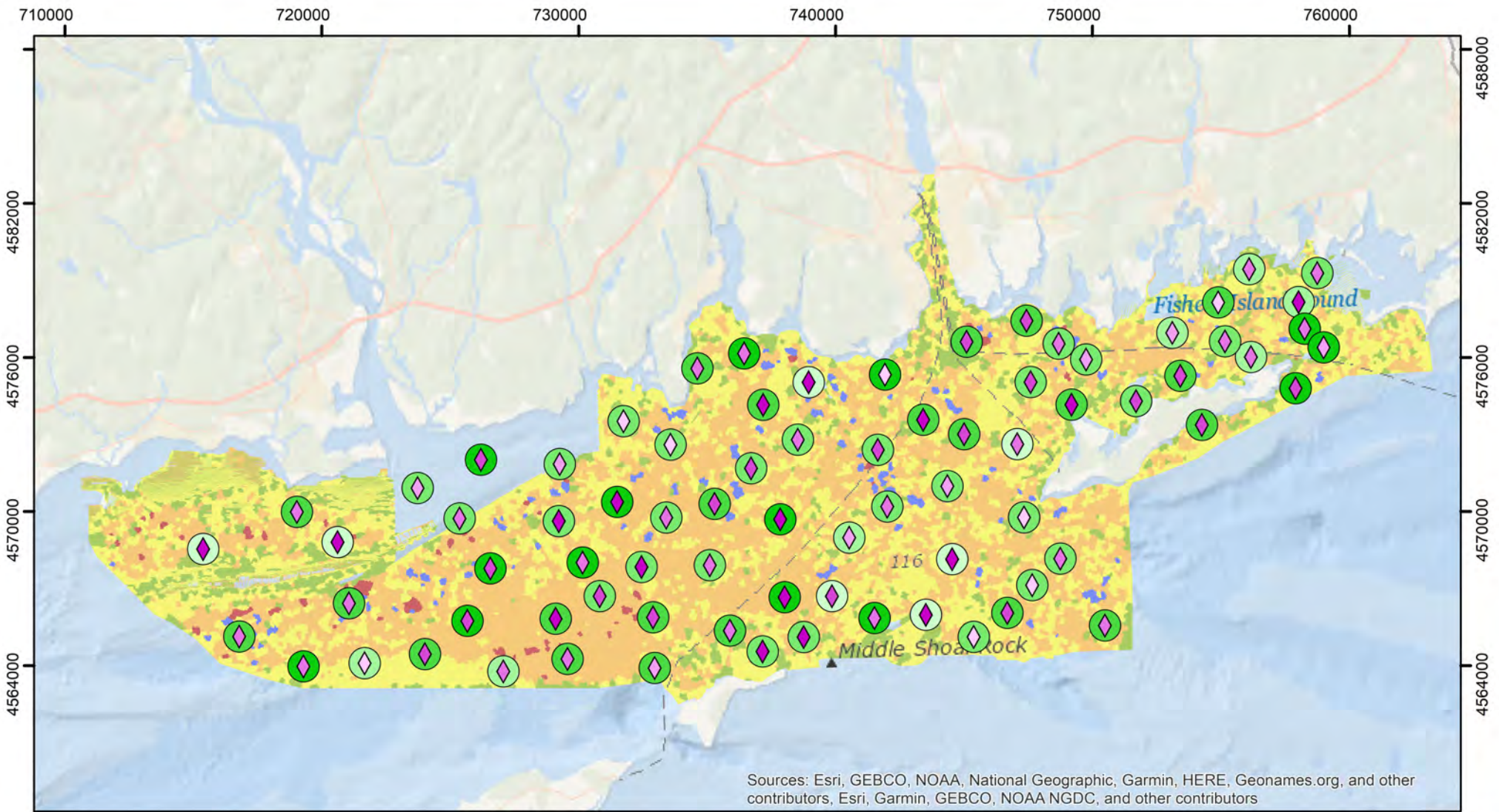


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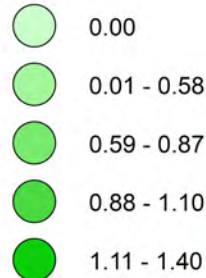
Horizontal Coordinate System UTM Zone 18N, NAD 1983



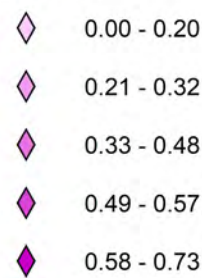


LIS Cable Fund Mapping Phase 2: Diversity (Log H)

Infauna



Epifauna



eCognition Classification



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Horizontal Coordinate System UTM Zone 18N, NAD 1983

