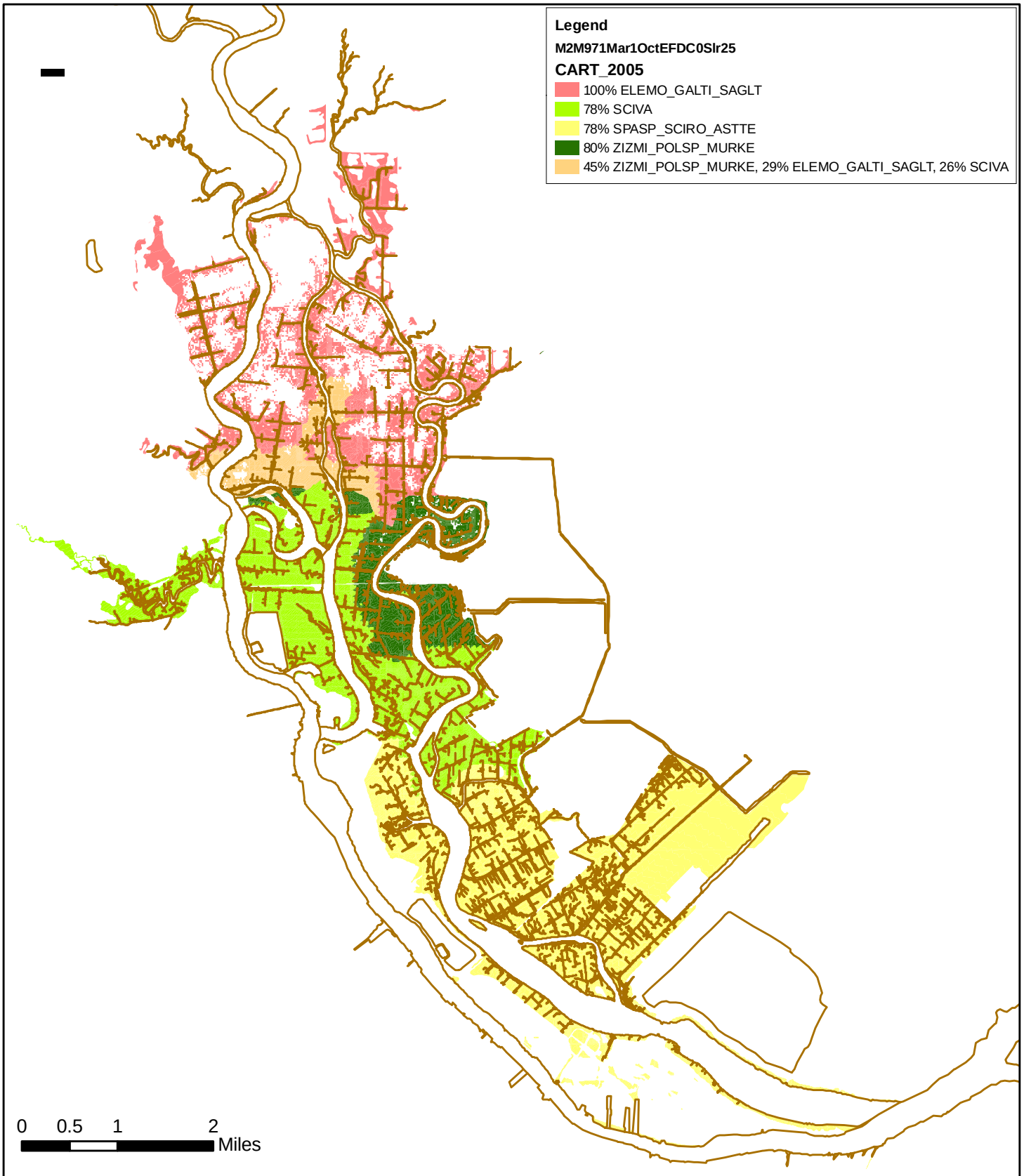
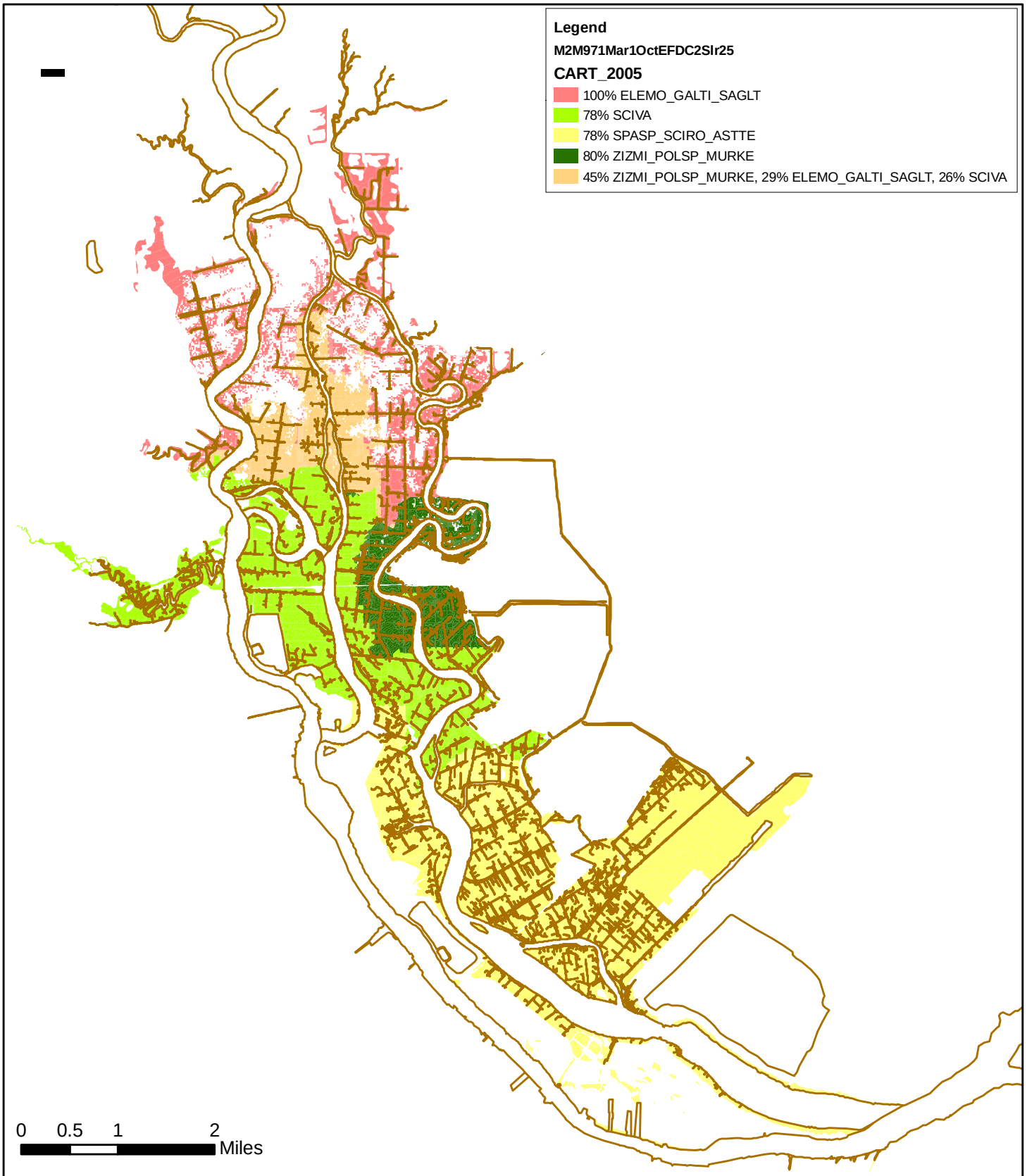



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community**
**Existing Depth**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

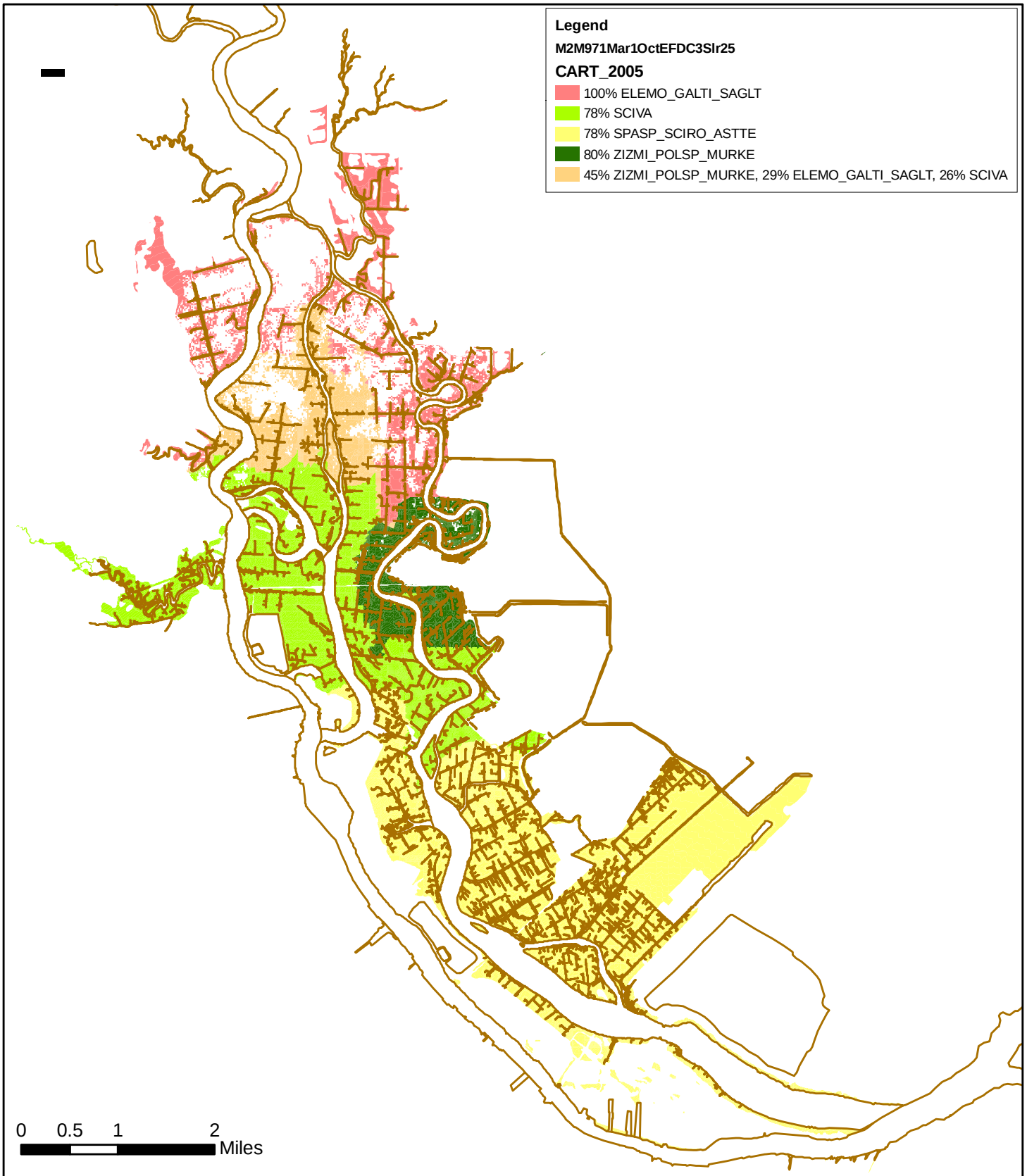



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community**
**44 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

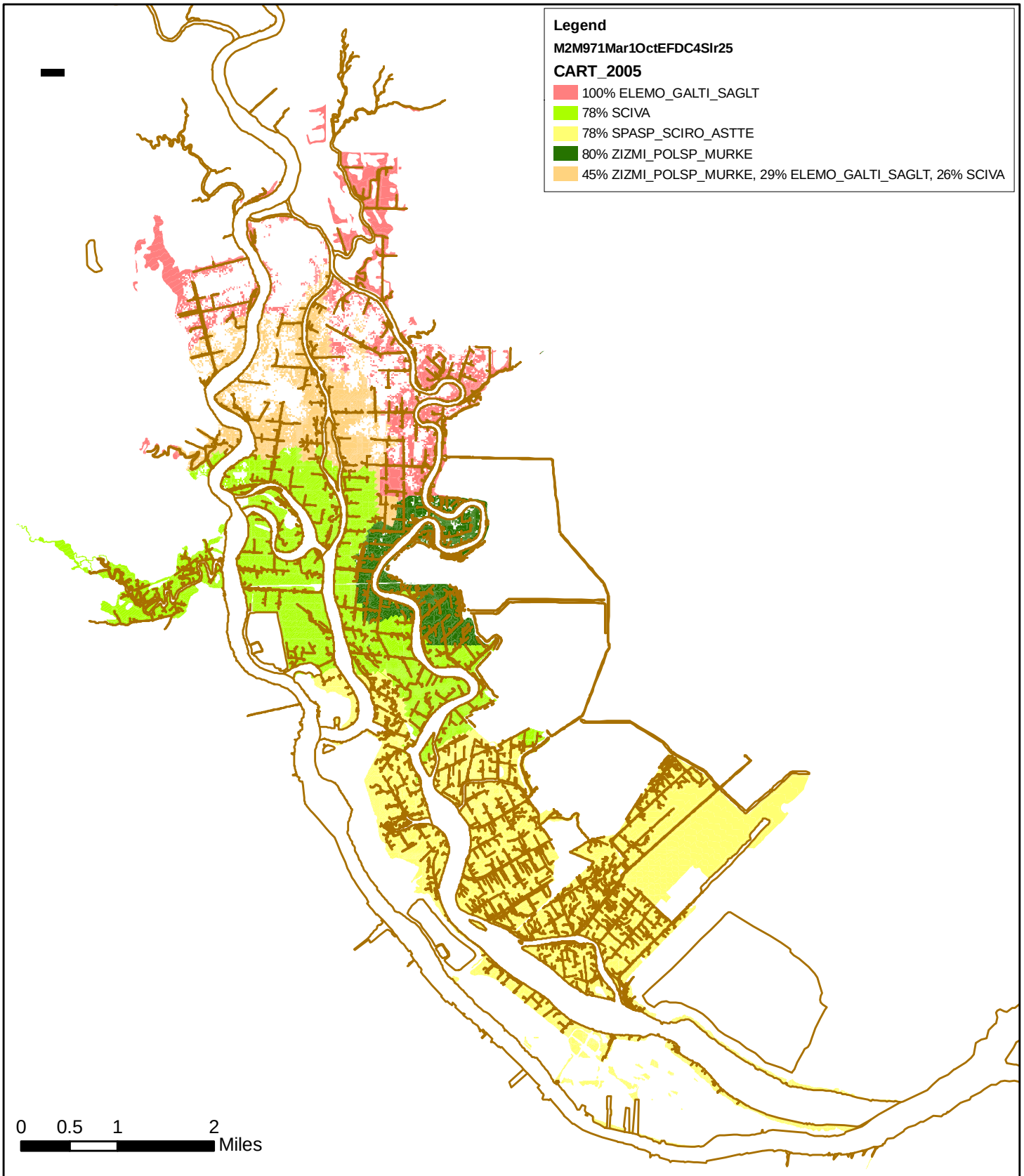



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community**
**45 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

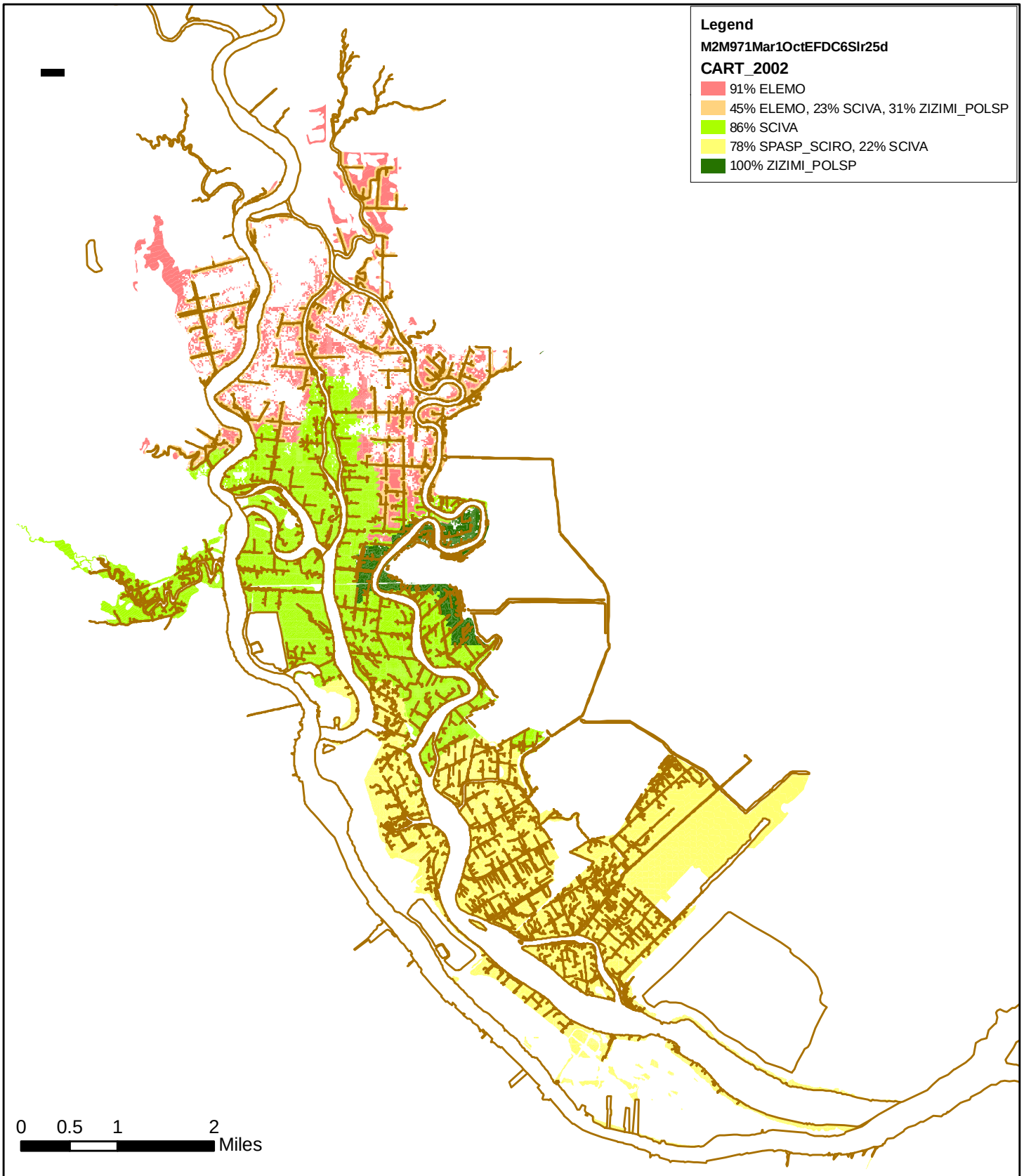



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community**
**46 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

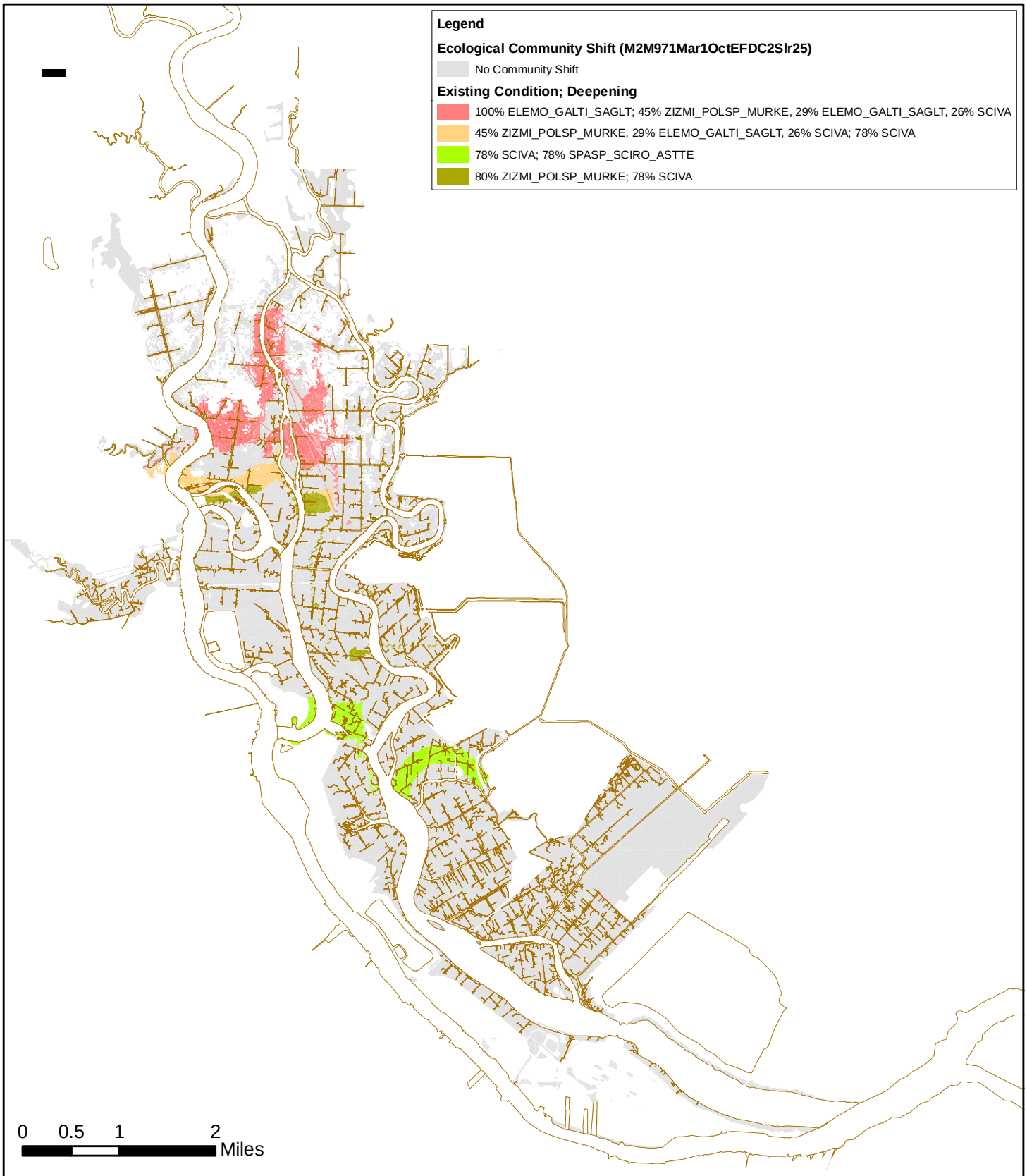



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2002 Predicted Ecological Community**
**48 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

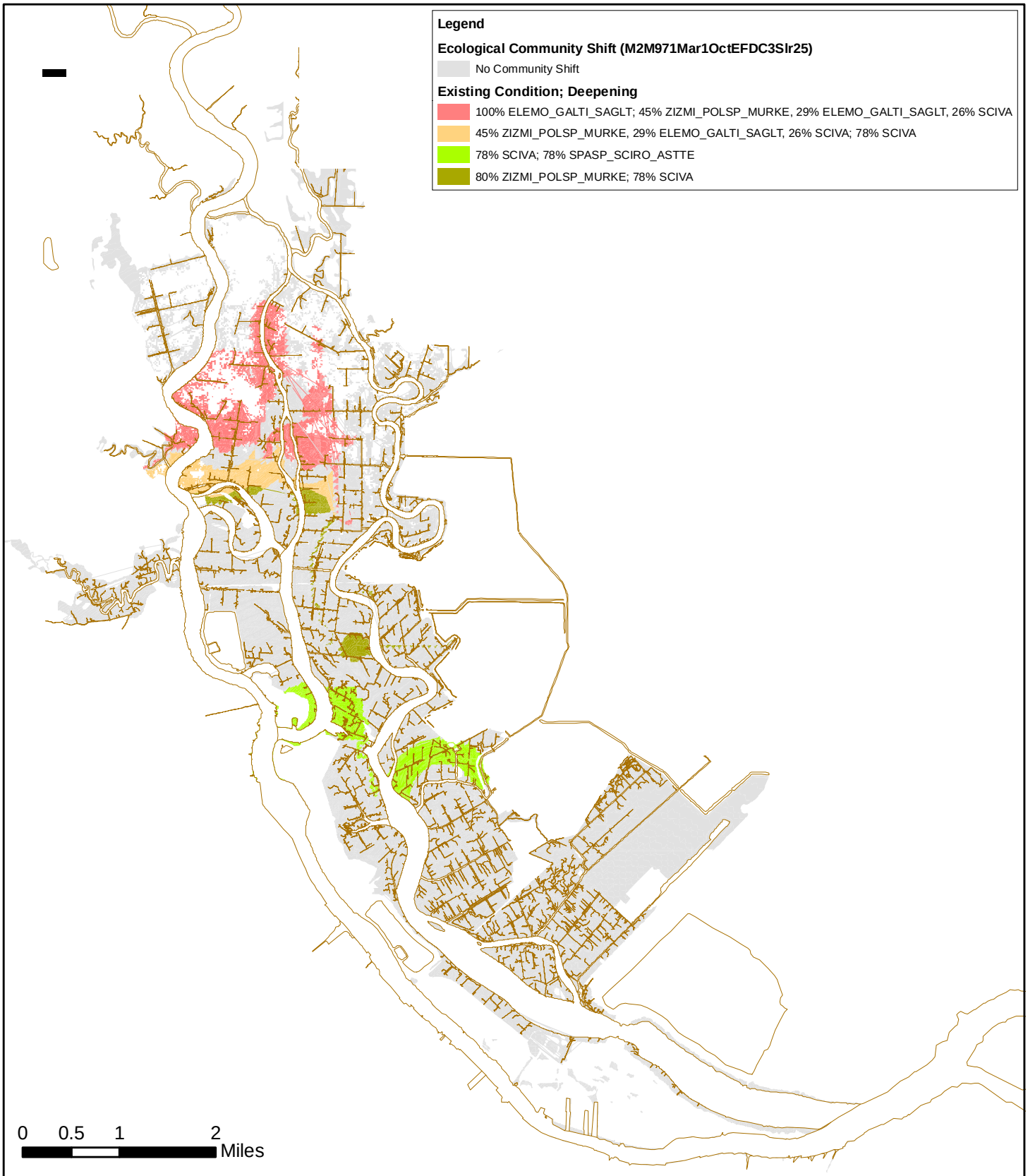



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community Shift**
**44 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

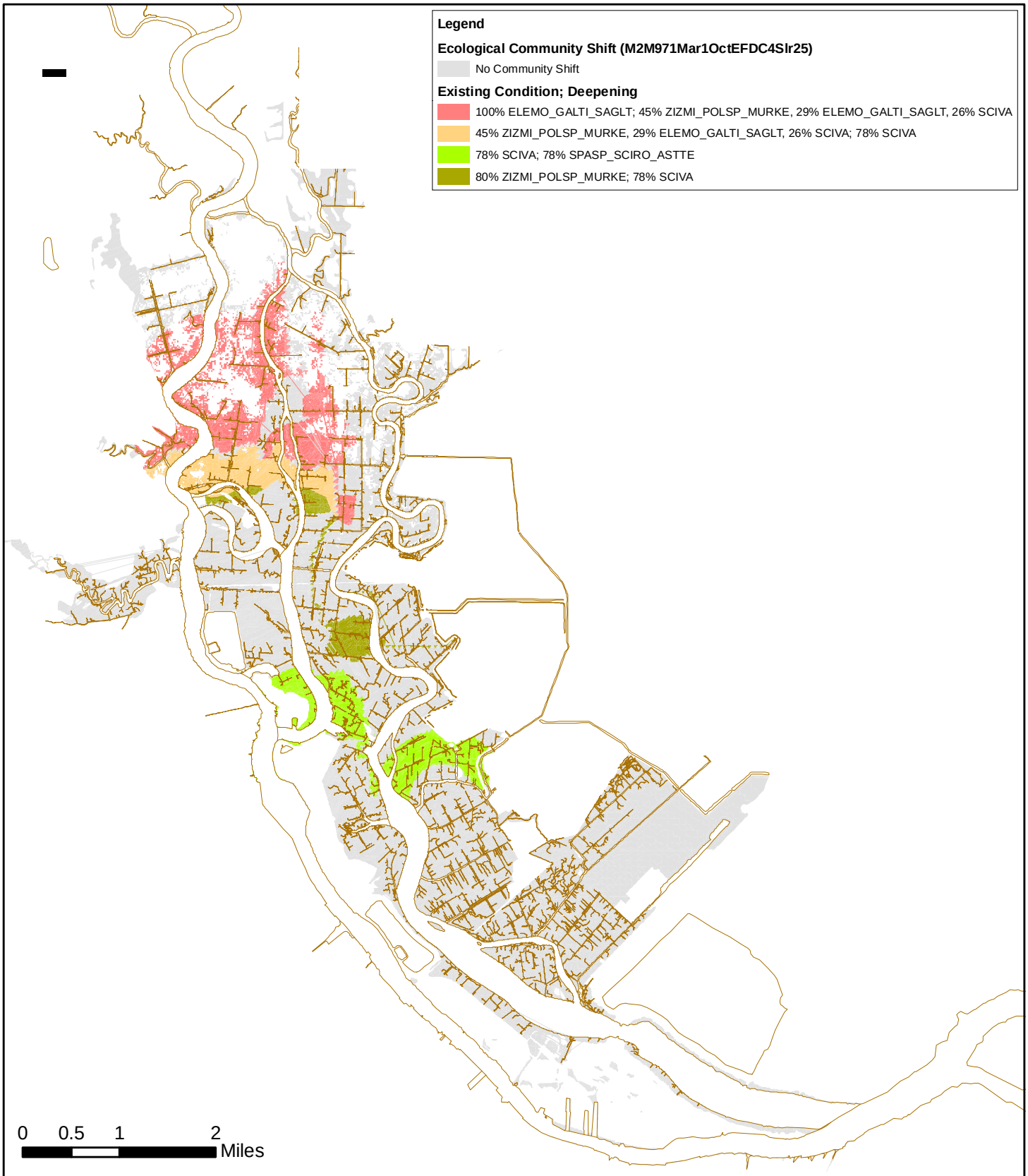



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community Shift**
**45 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

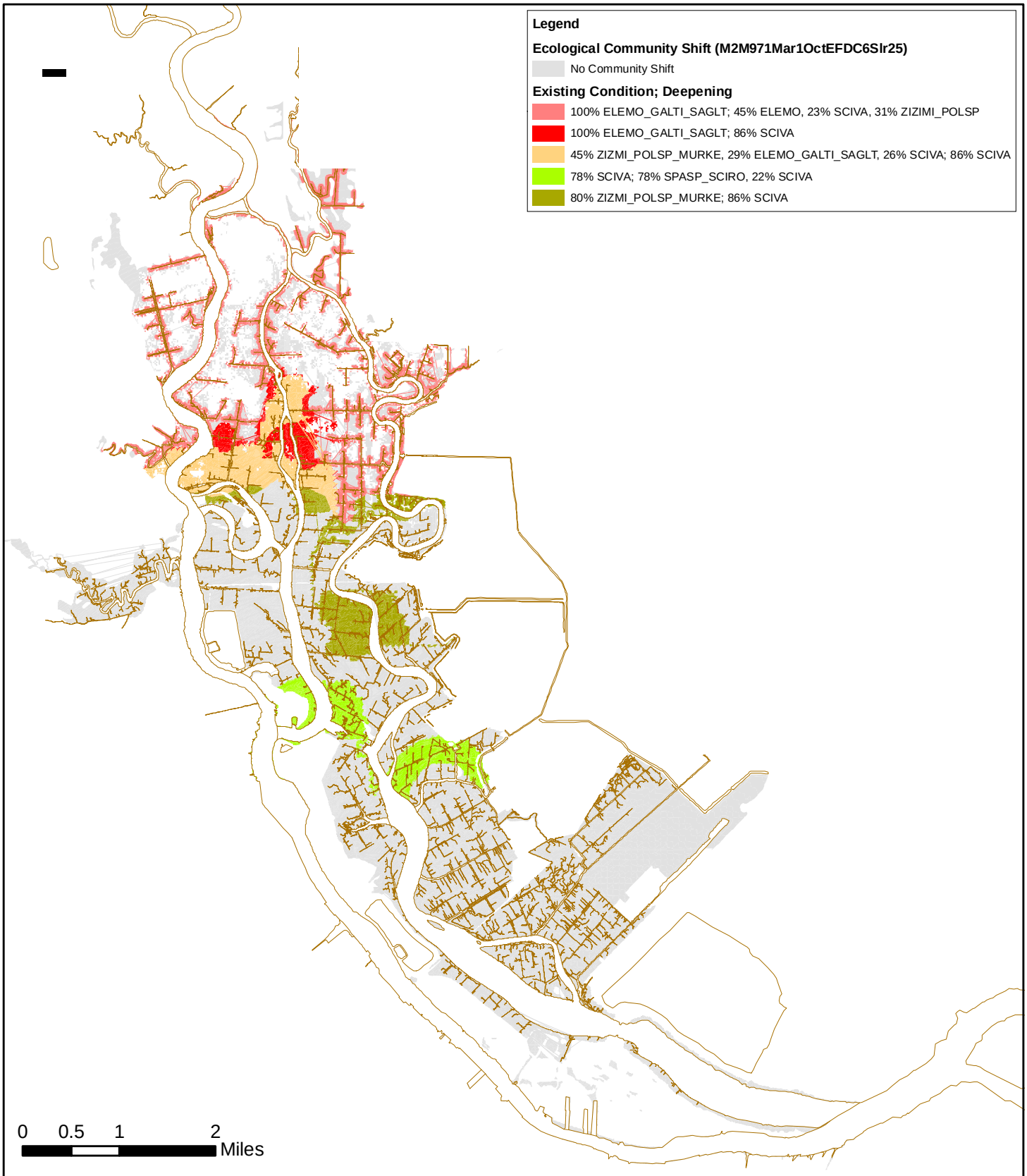



# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005 Predicted Ecological Community Shift**
**46 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*




# Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

**USGS/USFWS Savannah Marsh Succession Model CART 2005/2002 Predicted Ecological Community Shift**
**48 Foot Deepening**

*Values Based on EFDC and M2M Output using Historic Average Flow, Temperature, and Tidal Conditions*
*1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set)*
*25 cm Sea Level Rise Conditions*

*March 2007*

# Savannah Harbor Expansion Project

## USGS/USFWS MSM Wetland/Marsh Impact Evaluation

Predicted Vegetation Community Shifts

| Community CART2005 | No Deepening 25 cm Sea Level Rise Associated Acreages | 44 ft Deepening 25 cm Sea Level Rise Associated Acreages | Net Change (net negative), net positive |
|---|---|---|---|
| 100% Elemo_Galti_Saglt | 2003 | 1527 | (476) |
| 80% Zizmi_Polsp | 805 | 711 | (94) |
| 45% Zizmi_Polsp, 29% Elemo_Galti_Saglt, 26% Sciva | 446 | 793 | 348 |
| 78% Sciva | 2165 | 2149 | (16) |
| 78% Spasp_Sciro_Astte | 3428 | 3666 | 238 |
| TOTAL | 8847 | 8847 | |

| Community CART2005 | No Deepening 25 cm Sea Level Rise Associated Acreages | 45 ft Deepening 25 cm Sea Level Rise Associated Acreages | Net Change (net negative), net positive |
|---|---|---|---|
| 100% Elemo_Galti_Saglt | 2003 | 1374 | (628) |
| 80% Zizmi_Polsp | 805 | 669 | (136) |
| 45% Zizmi_Polsp, 29% Elemo_Galti_Saglt, 26% Sciva | 446 | 863 | 418 |
| 78% Sciva | 2165 | 2168 | 3 |
| 78% Spasp_Sciro_Astte | 3428 | 3772 | 343 |
| TOTAL | 8847 | 8847 | |

| Community CART2005 | No Deepening 25 cm Sea Level Rise Associated Acreages | 46 ft Deepening 25 cm Sea Level Rise Associated Acreages | Net Change (net negative), net positive |
|---|---|---|---|
| 100% Elemo_Galti_Saglt | 2003 | 1159 | (843) |
| 80% Zizmi_Polsp | 805 | 598 | (207) |
| 45% Zizmi_Polsp, 29% Elemo_Galti_Saglt, 26% Sciva | 446 | 986 | 540 |
| 78% Sciva | 2165 | 2214 | 50 |
| 78% Spasp_Sciro_Astte | 3428 | 3889 | 461 |
| TOTAL | 8847 | 8847 | |

| Community CART2005/2002 | No Deepening 25 cm Sea Level Rise Associated Acreages | 48 ft Deepening 25 cm Sea Level Rise Associated Acreages | Net Change (net negative), net positive |
|---|---|---|---|
| 100% Elemo_Galti_Saglt/ 91% Elemo | 2003 | 824 | (1178) |
| 80% Zizmi_Polsp/ 100% Zizmi_Polsp | 805 | 317 | (488) |
| 45% Zizmi_Polsp, 29% Elemo_Galti_Saglt, 26% Sciva/ 45% Elemo,23% Sciva, 31% Zizmi_Polsp | 446 | 1017 | 571 |
| 78% Sciva/ 86% Sciva | 2165 | 2799 | 634 |
| 78% Spasp_Sciro_Astte/ 78% Spasp_Sciro, 22% Sciva | 3428 | 3889 | 461 |
| TOTAL | 8847 | 8847 | |

* Values Based on EFDC and M2M Marsh Pore Water Salinity Input for Historic Average Flow, Temperature, and Tidal Conditions

1 March through 1 October 1997 (1997 best represents average historic conditions from the available data set).

25 cm Sea Level Rise Conditions.

** 25 cm sea level rise conditons with 48 ft. deepening was modeled using the CART 2002 MSM due to predicted salinity increases showing similarities to drought conditons.