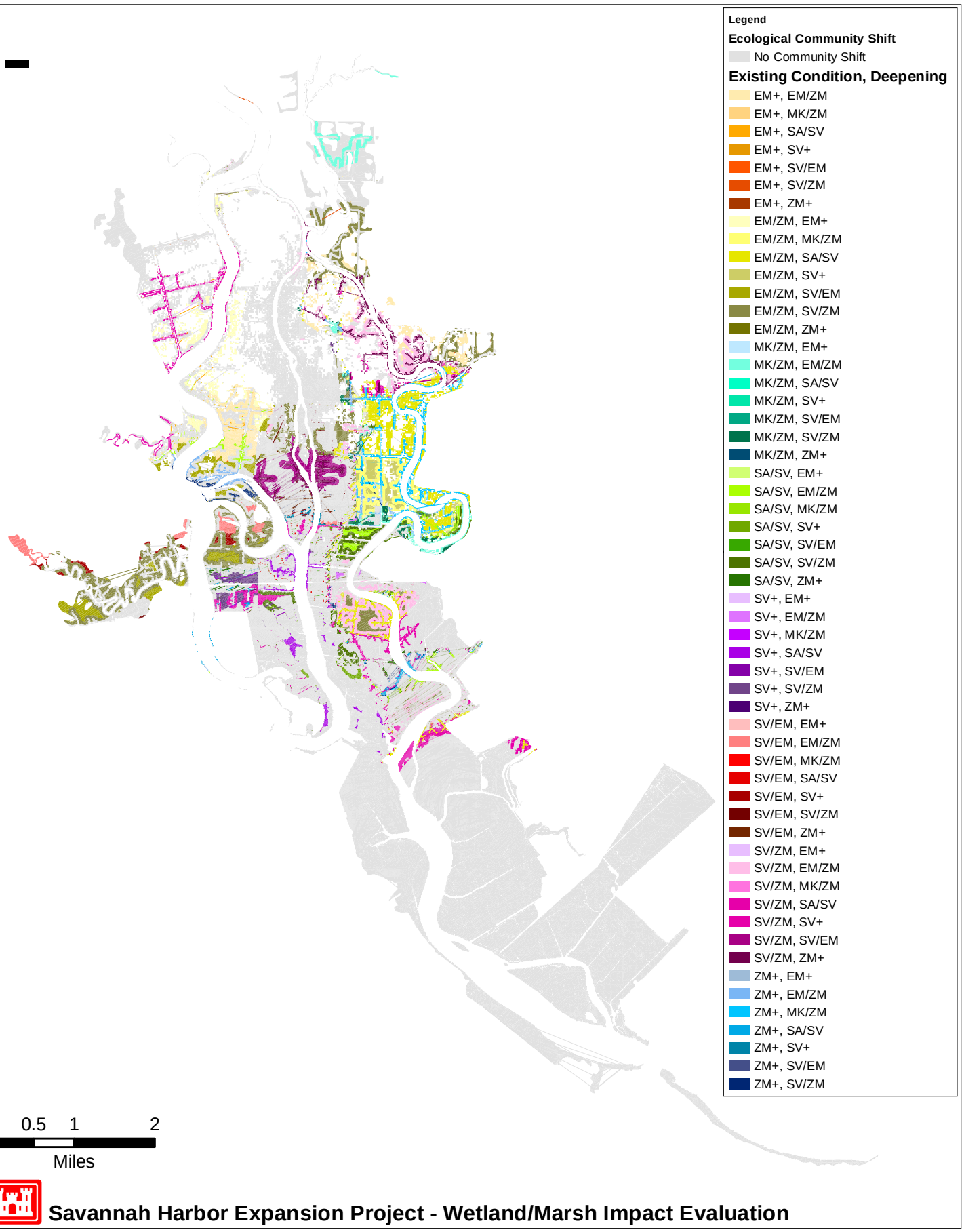
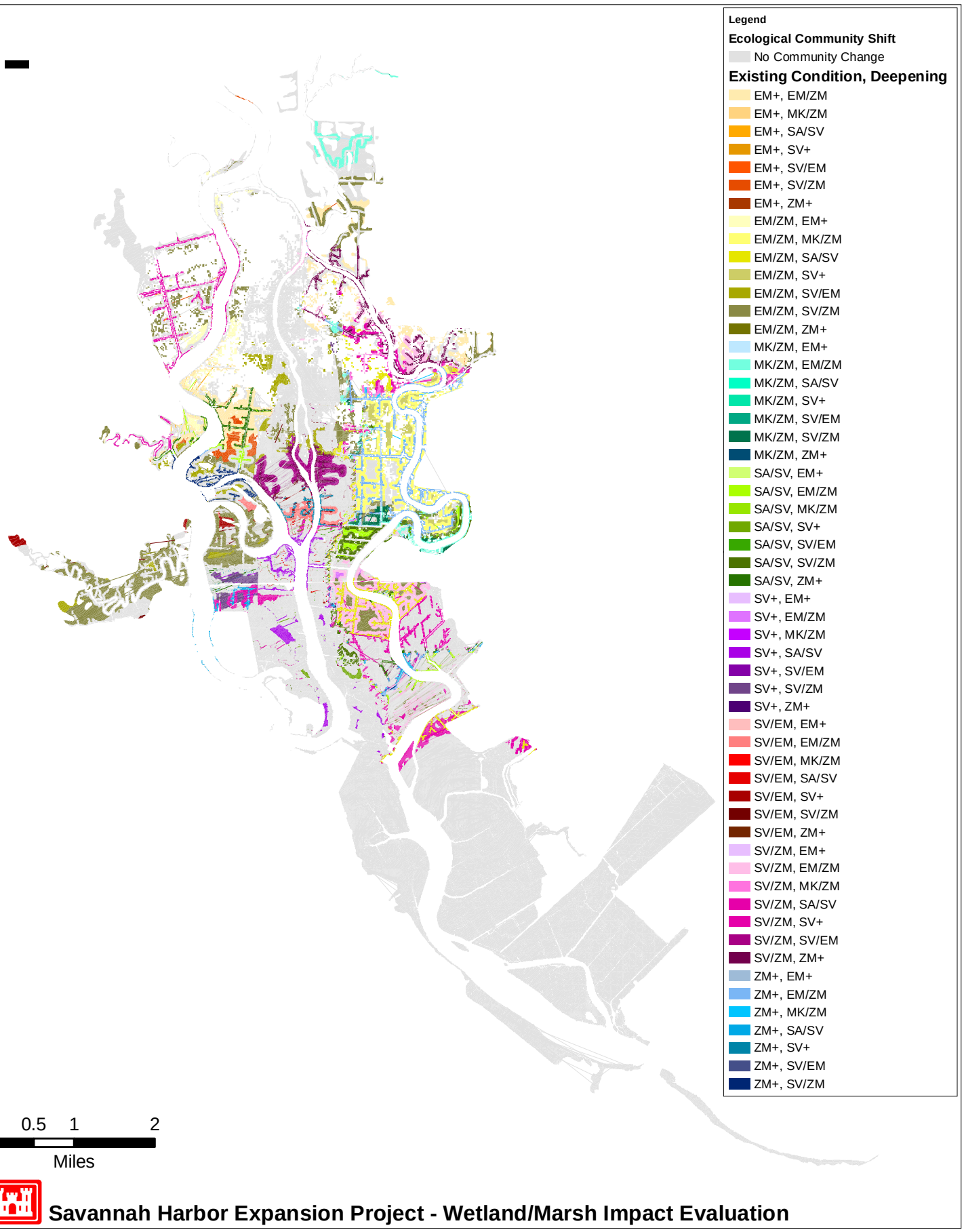


Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community Shift
44 Foot Depth (2 Foot Deepening)
Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

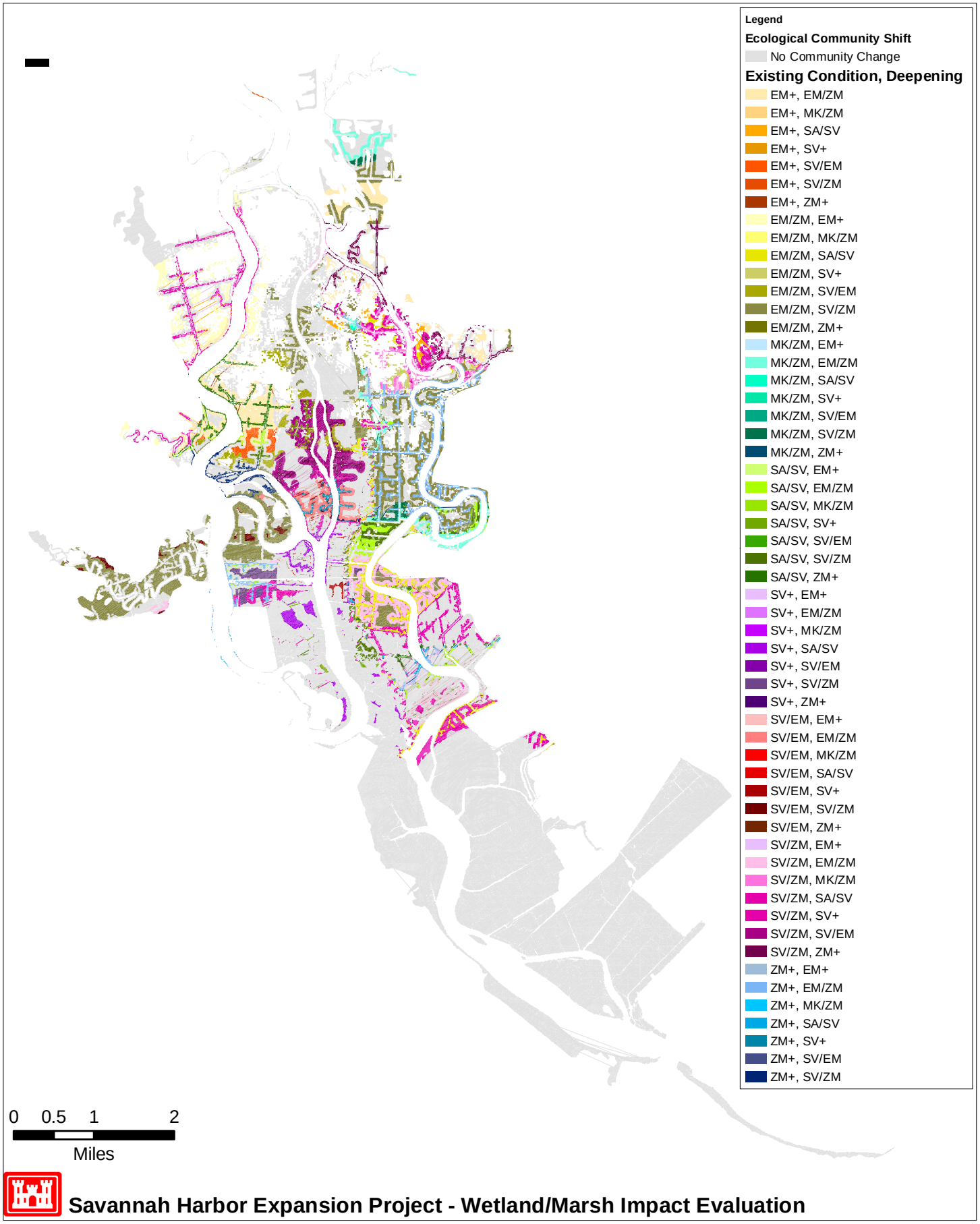
March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community Shift
45 Foot Depth (3 Foot Deepening)
Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

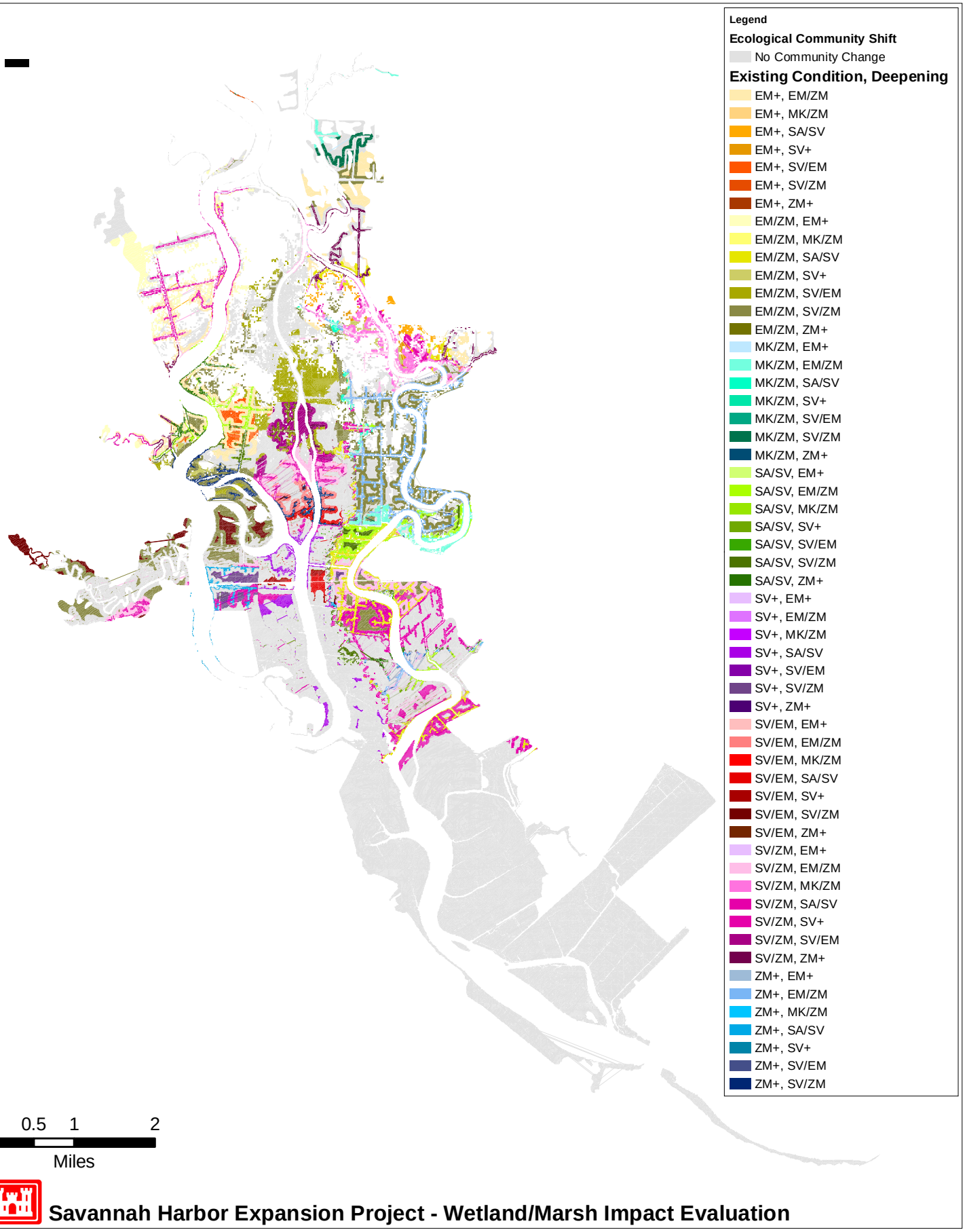
March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community Shift
46 Foot Depth (4 Foot Deepening)
Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community Shift
48 Foot Depth (6 Foot Deepening)
Values Based on EFDC and M2M Output using Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set)
Existing Sea Level Conditions

March 2007

Savannah Harbor Expansion Project

ATM MSM Wetland/Marsh Impact Evaluation

Predicted Vegetation Community Shifts

Community	Existing Depth Low Flow Associated Acreages	44 ft Depth Low Flow Associated Acreages	Net Change (net negative), net positive
EM+	439	368	(71)
EM/ZM	1709	1366	(343)
MK/ZM	98	214	116
ZM+	228	143	(85)
SV/EM	372	473	101
SV/ZM	1394	1385	(9)
SV+	134	150	16
SA/SV	3627	3902	275
TOTAL	8001	8001	

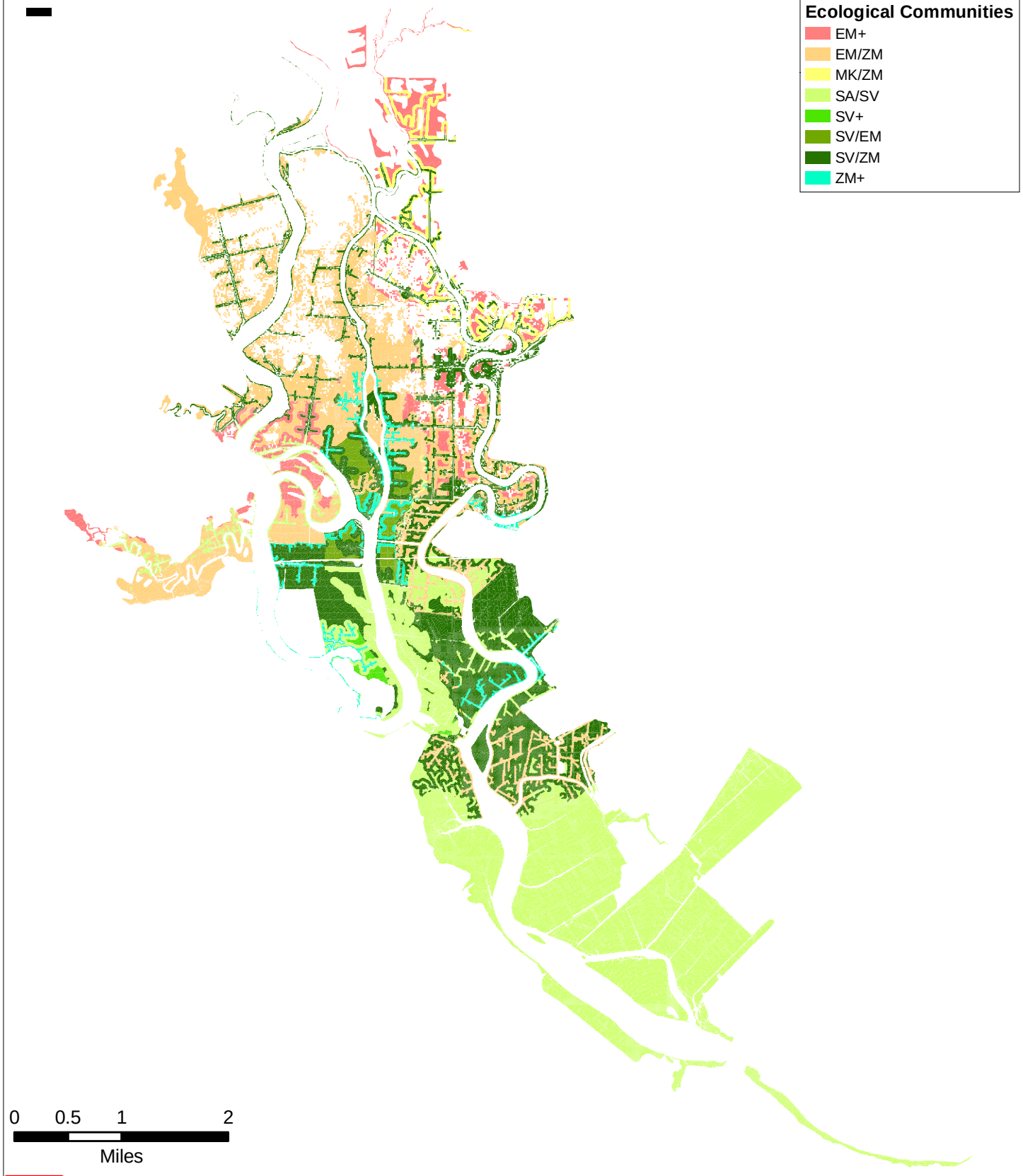
Community	Existing Depth Low Flow Associated Acreages	45 ft Depth Low Flow Associated Acreages	Net Change (net negative), net positive
EM+	439	259	(180)
EM/ZM	1709	1411	(298)
MK/ZM	98	199	101
ZM+	228	170	(58)
SV/EM	372	481	110
SV/ZM	1394	1449	55
SV+	134	148	14
SA/SV	3627	3882	255
TOTAL	8001	8001	

Community	Existing Depth Low Flow Associated Acreages	46 ft Depth Low Flow Associated Acreages	Net Change (net negative), net positive
EM+	439	259	(180)
EM/ZM	1709	1475	(234)
MK/ZM	98	47	(51)
ZM+	228	168	(60)
SV/EM	372	513	141
SV/ZM	1394	1491	97
SV+	134	99	(35)
SA/SV	3627	3949	322
TOTAL	8001	8001	

Community	Existing Depth Low Flow Associated Acreages	48 ft Depth Low Flow Associated Acreages	Net Change (net negative), net positive
EM+	439	196	(243)
EM/ZM	1709	1505	(205)
MK/ZM	98	75	(23)
ZM+	228	114	(114)
SV/EM	372	496	124
SV/ZM	1394	1408	14
SV+	134	114	(20)
SA/SV	3627	4093	466
TOTAL	8001	8001	

* Values Based on EFDC and M2M Marsh Pore Water Salinity Input for Historic Low Flow, Average Temperature, and Average Tidal Conditions
1 March through 1 October 2001 (2001 best represents low historic conditions from the available data set).
Existing Sea Level Conditions.

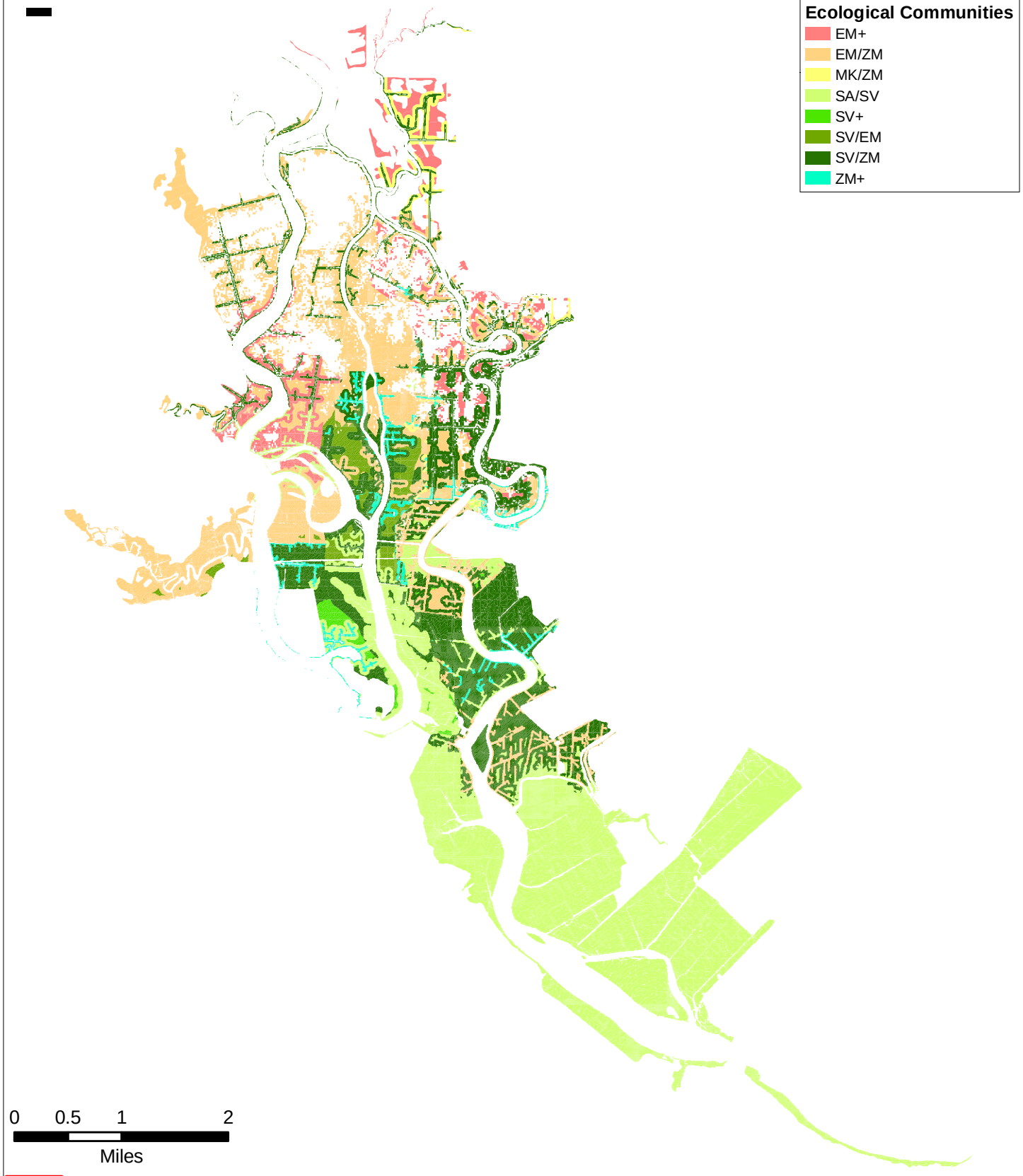
APPENDIX C
SENSITIVITY ANYSIS #2A
ECOLOGICAL COMMUNITY MAPS &
ECOLOGICAL COMMUNITY SHIFT MAPS



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model 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

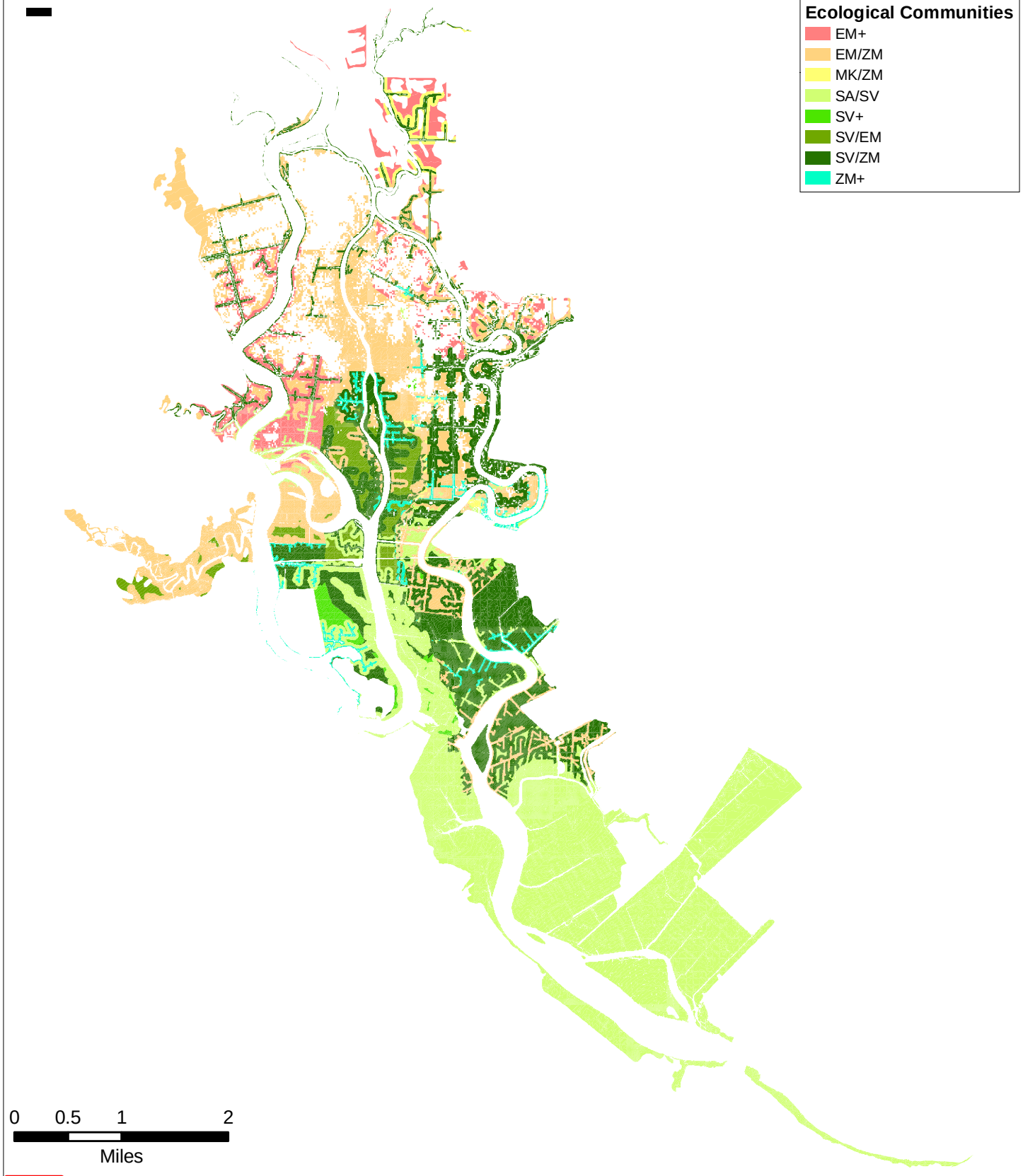
March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community
44 Foot Depth (2 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

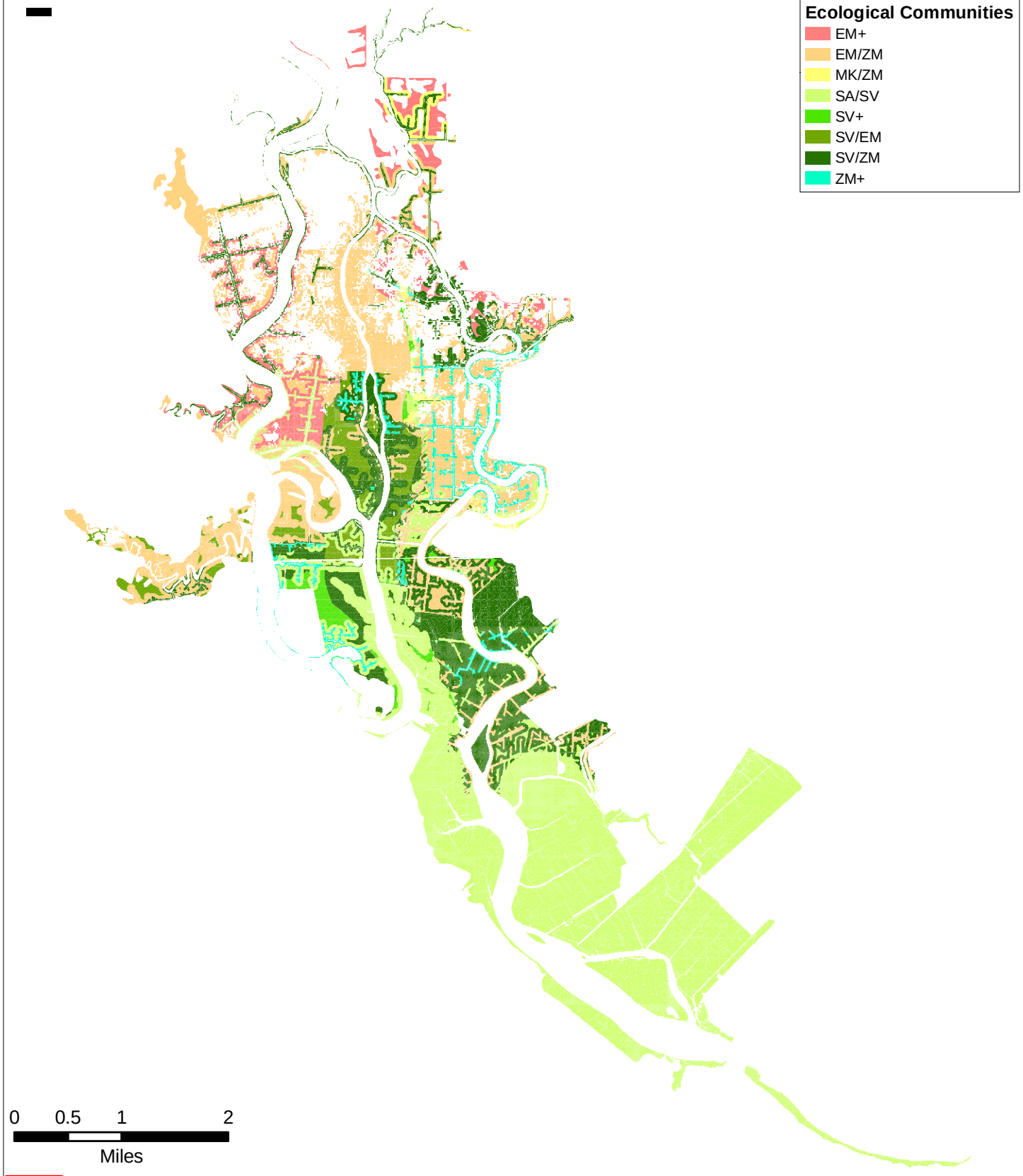
March 2007



Savannah Harbor Expansion Project - Wetland/Marsh Impact Evaluation

ATM Savannah Marsh Succession Model Predicted Ecological Community
45 Foot Depth (3 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

ATM Savannah Marsh Succession Model Predicted Ecological Community
46 Foot Depth (4 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