

Roadblocks to Seagrass Recovery

Seagrass Recovery Potential Model
for Panhandle estuaries

Change analysis of seagrass cover



What these data show

This dataset shows the change in seagrass cover between mapping data sets in these Florida panhandle estuaries: Perdido Bay, Big Lagoon, Pensacola Bay, Escambia Bay, Santa Rosa Sound, Choctawhatchee Bay, St. Andrew Bay, and St. Joseph Bay.

To create this dataset, seagrass cover maps from 1992, 2002, 2003, 2007, 2010, and 2015 were used. Not all estuaries were mapped in each year, so the years used for analysis vary between estuary.

The years used for each estuary are:

Perdido Bay: 1992, 2002, 2010, 2015

Big Lagoon: 1992, 2003, 2010, 2015

Pensacola Bay: 1992, 2003, 2010, 2015

Escambia Bay: 1992, 2003, 2010, 2015

Santa Rosa Sound: 1992, 2003, 2010, 2015

Choctawhatchee Bay: 1992, 2003, 2007, 2015

St. Andrew Bay: 1992, 2003, 2010, 2015

St. Joseph Bay: 1992, 2003, 2010, 2015

This project was completed by the Florida Fish and Wildlife Conservation Commission Fish and Wildlife Research Institute and funded by the Gulf Environmental Benefit Fund of the National Fish and Wildlife Federation.

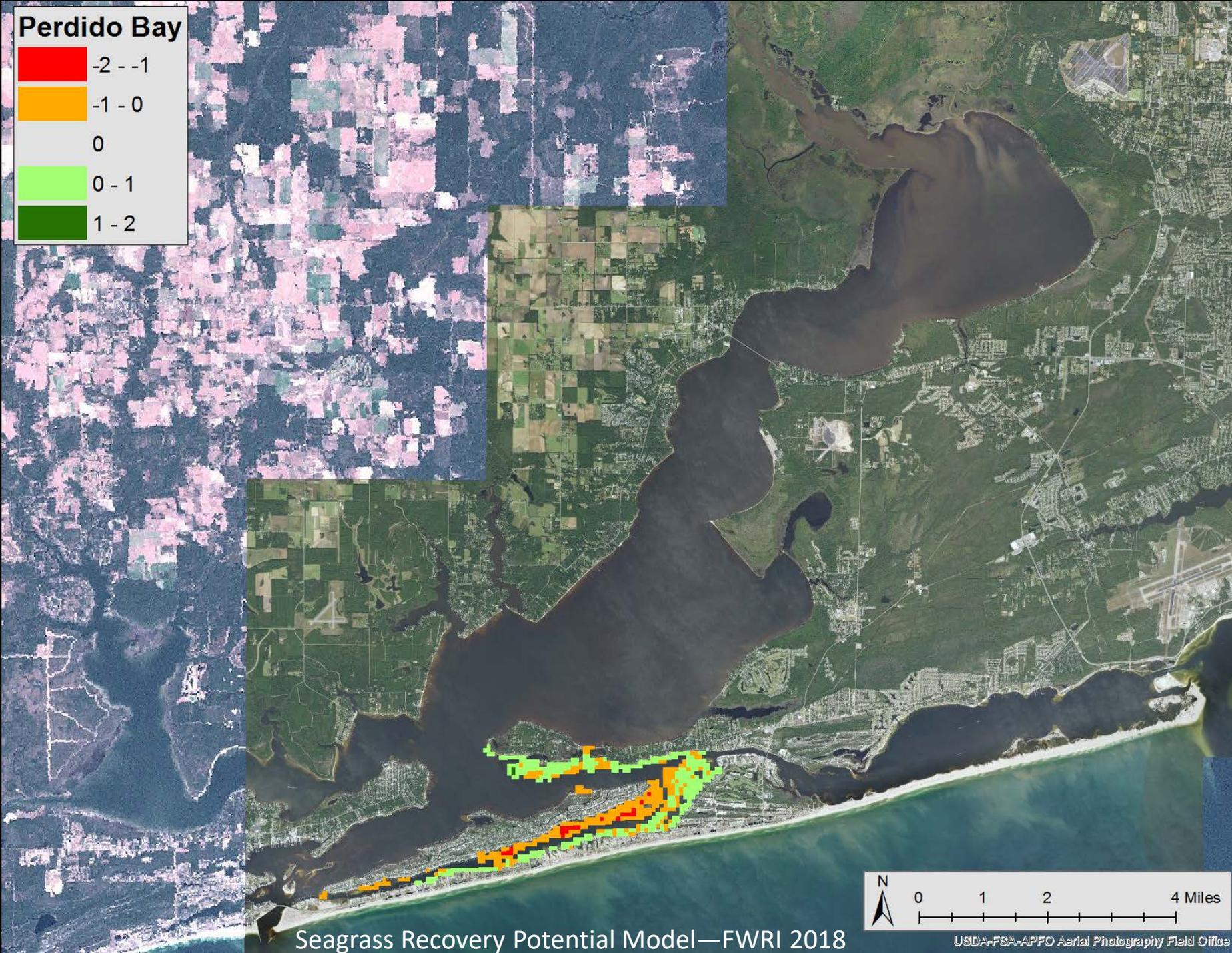
Technical Information

To quantify change in seagrass cover, polygon shapefiles for each year were clipped to the area of each estuary, and the attributes common to pairs of mapping years were joined through union. The seagrass cover for each year was compared to the cover of the year prior, and given a numeric value based on the change. The values ranged from 2 to -2, where 2 was the greatest increase in cover (bare to continuous seagrass), and -2 was the greatest decrease in cover (continuous seagrass to bare).

Color	From	To	Code
	Continuous	No SAV	-2
	Continuous	Patchy	-1
	Patchy	No SAV	0
	No SAV	Patchy	1
	Patchy	Continuous	1
	No SAV	Continuous	2

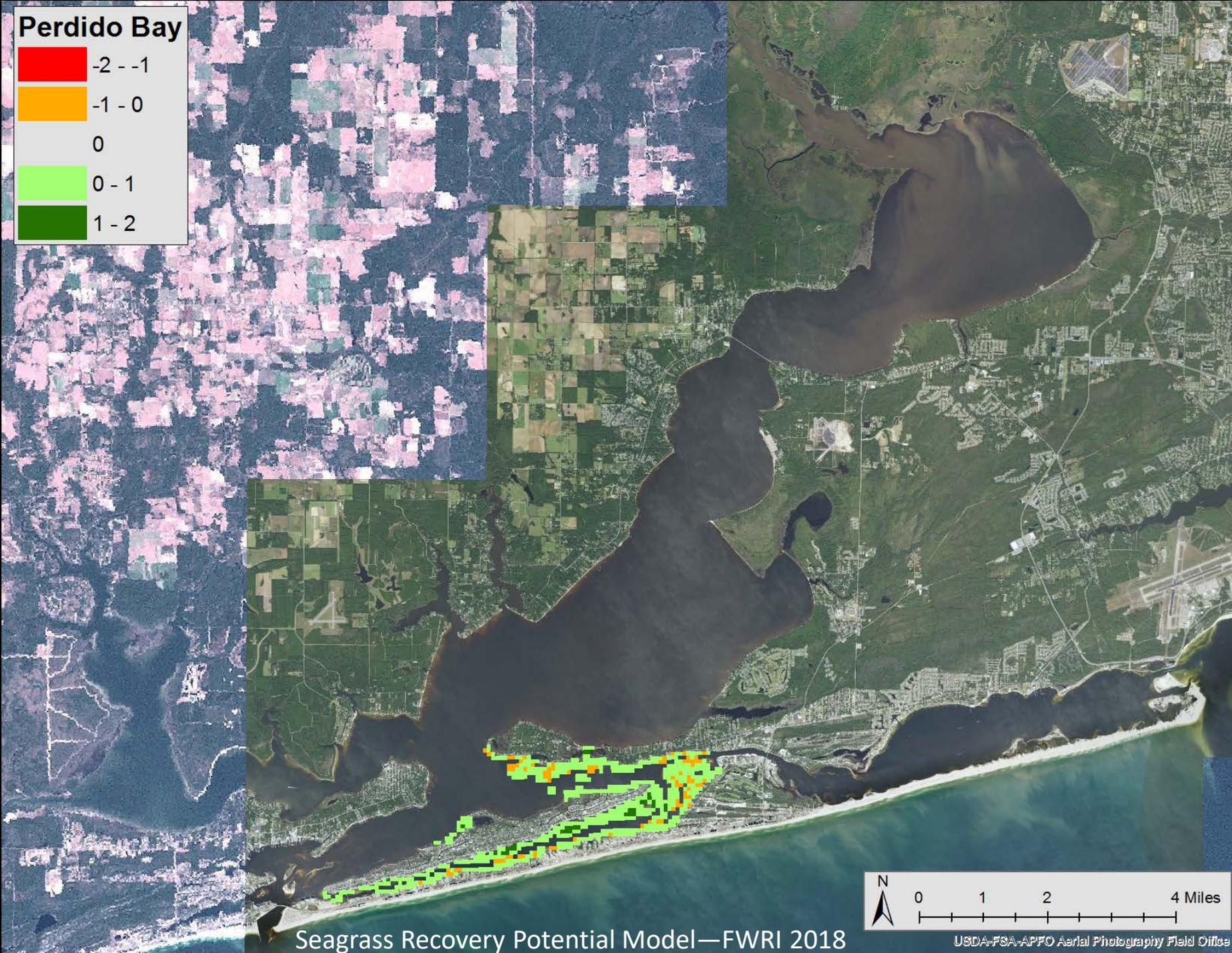
The change polygon shapefiles were then spatially joined to a 1-ha cells in a grid, and the mean numeric change of the polygons within each grid cell was calculated.

The projection of the shapefiles in this dataset is NAD83 UTM Zone 16N.



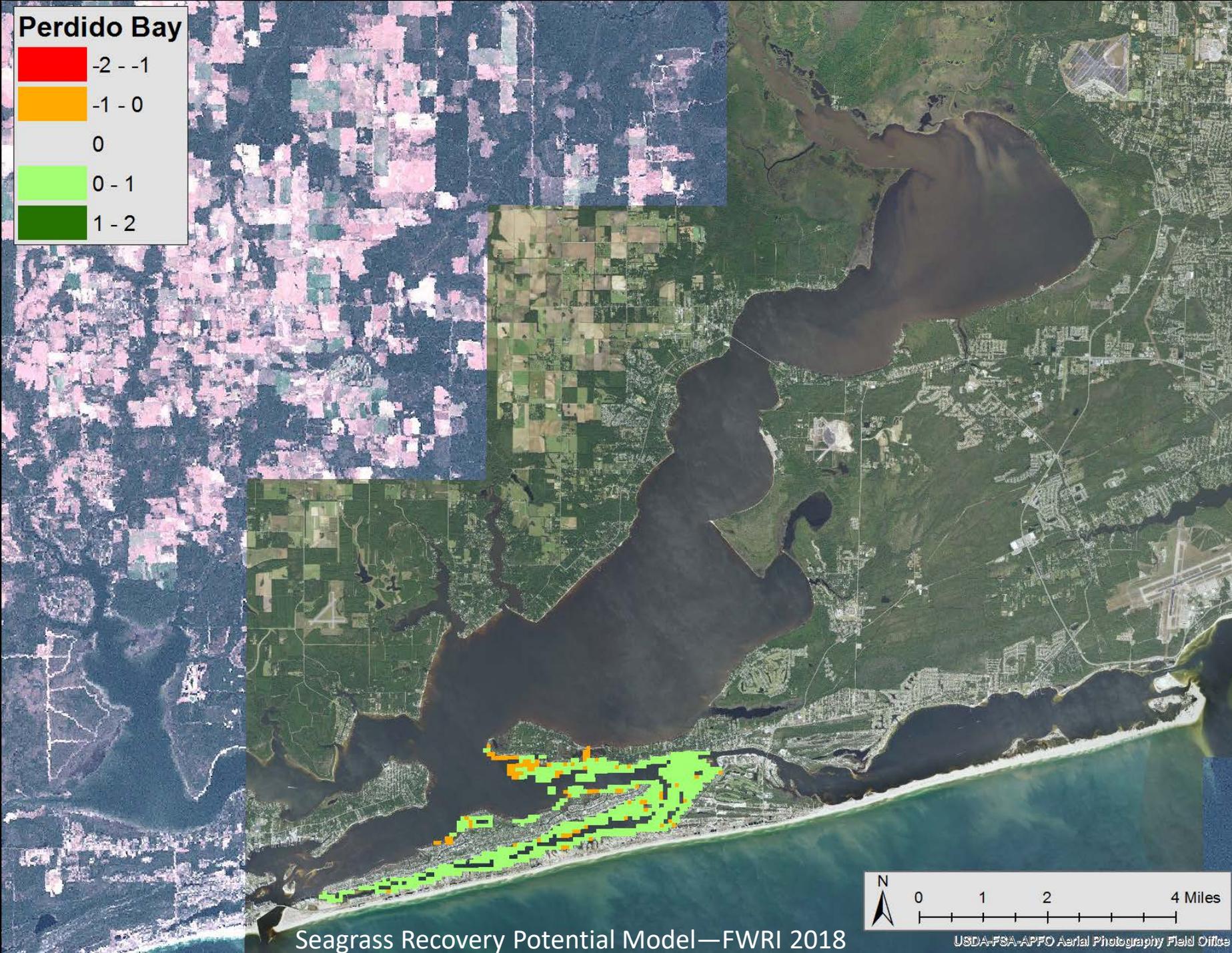
Perdido Bay Change 1992 to 2002





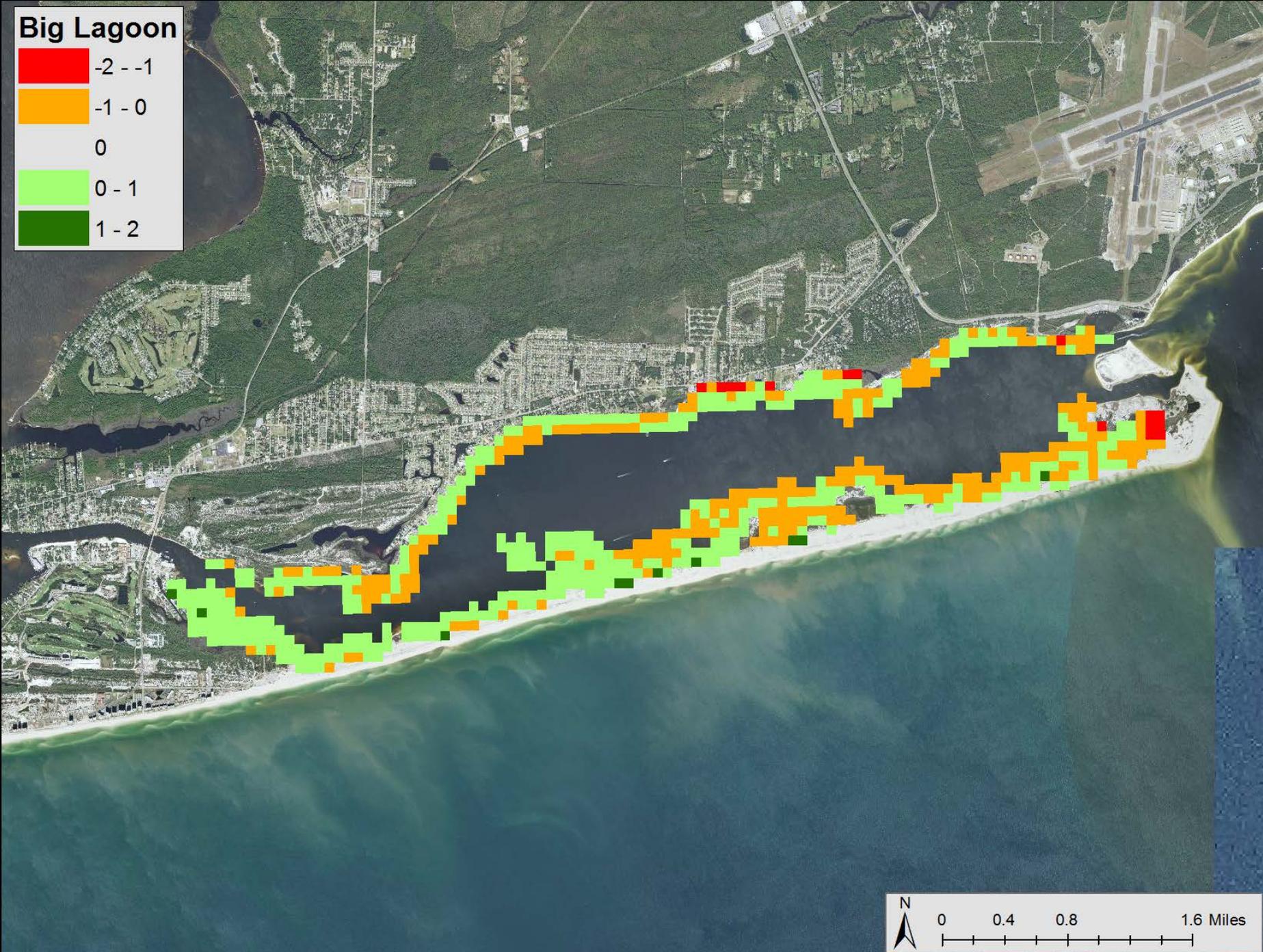
Perdido Bay Change 2002 to 2010





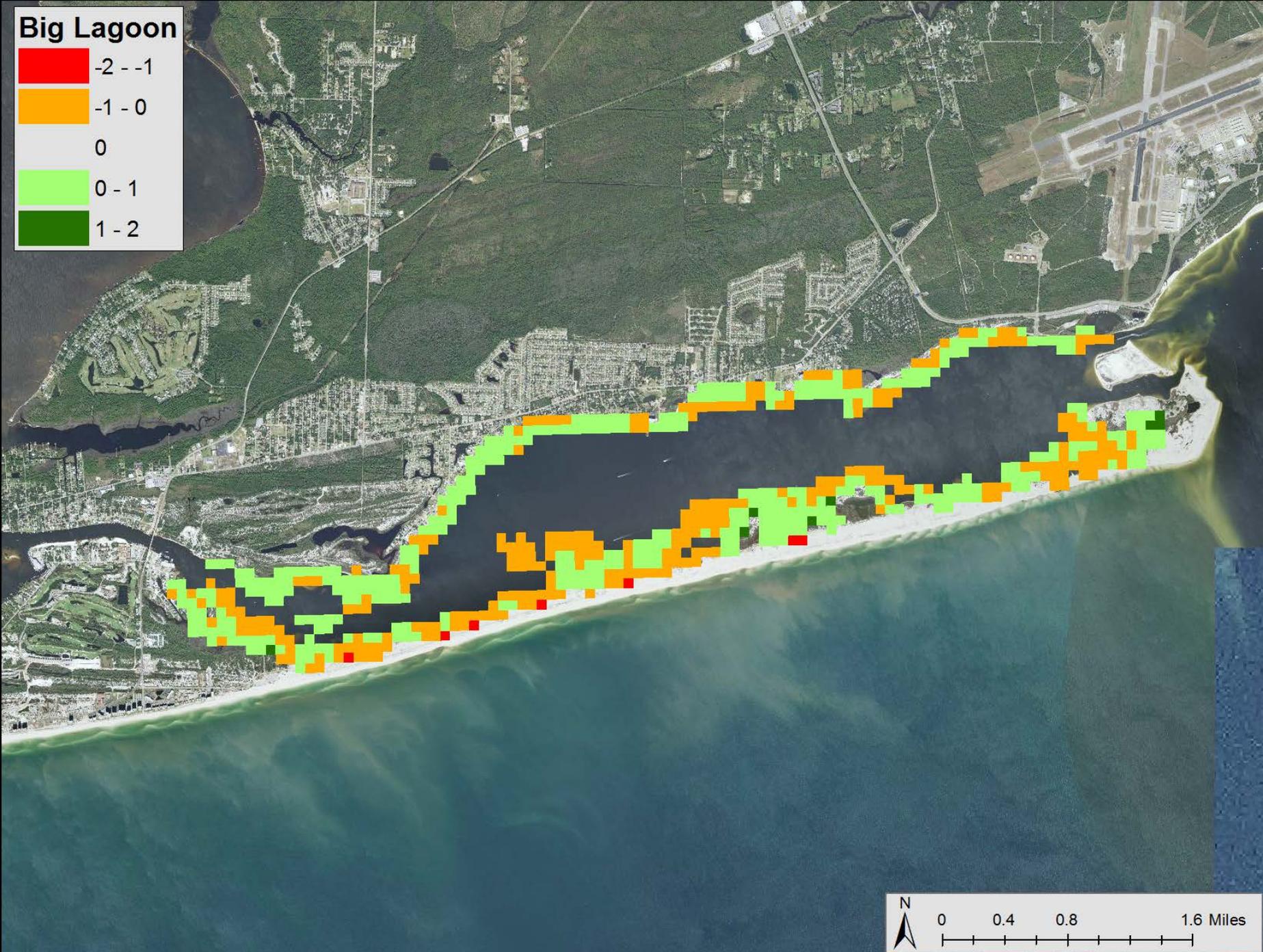
Perdido Bay Change 2010 to 2015





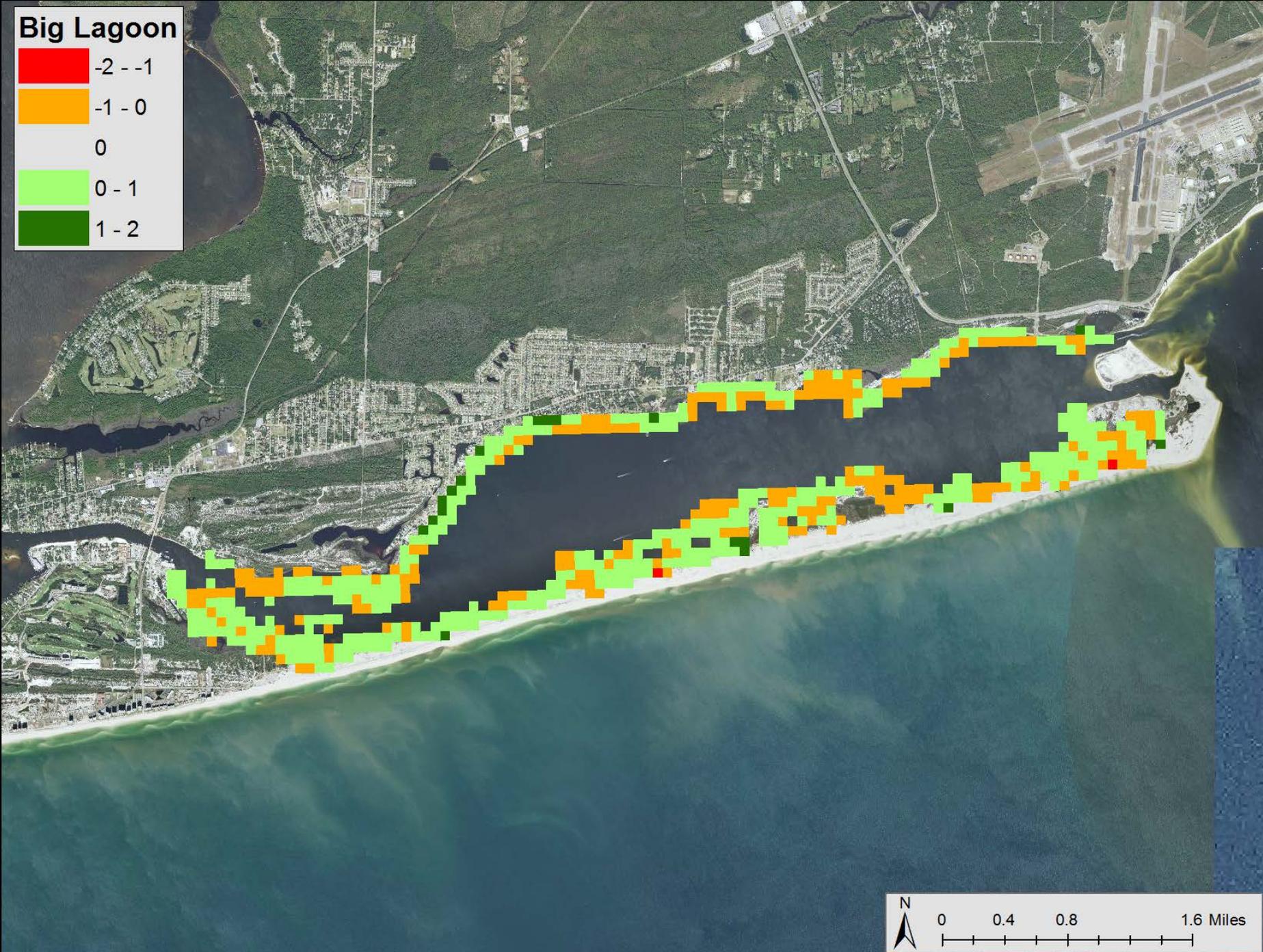
Big Lagoon Change 1992 to 2003





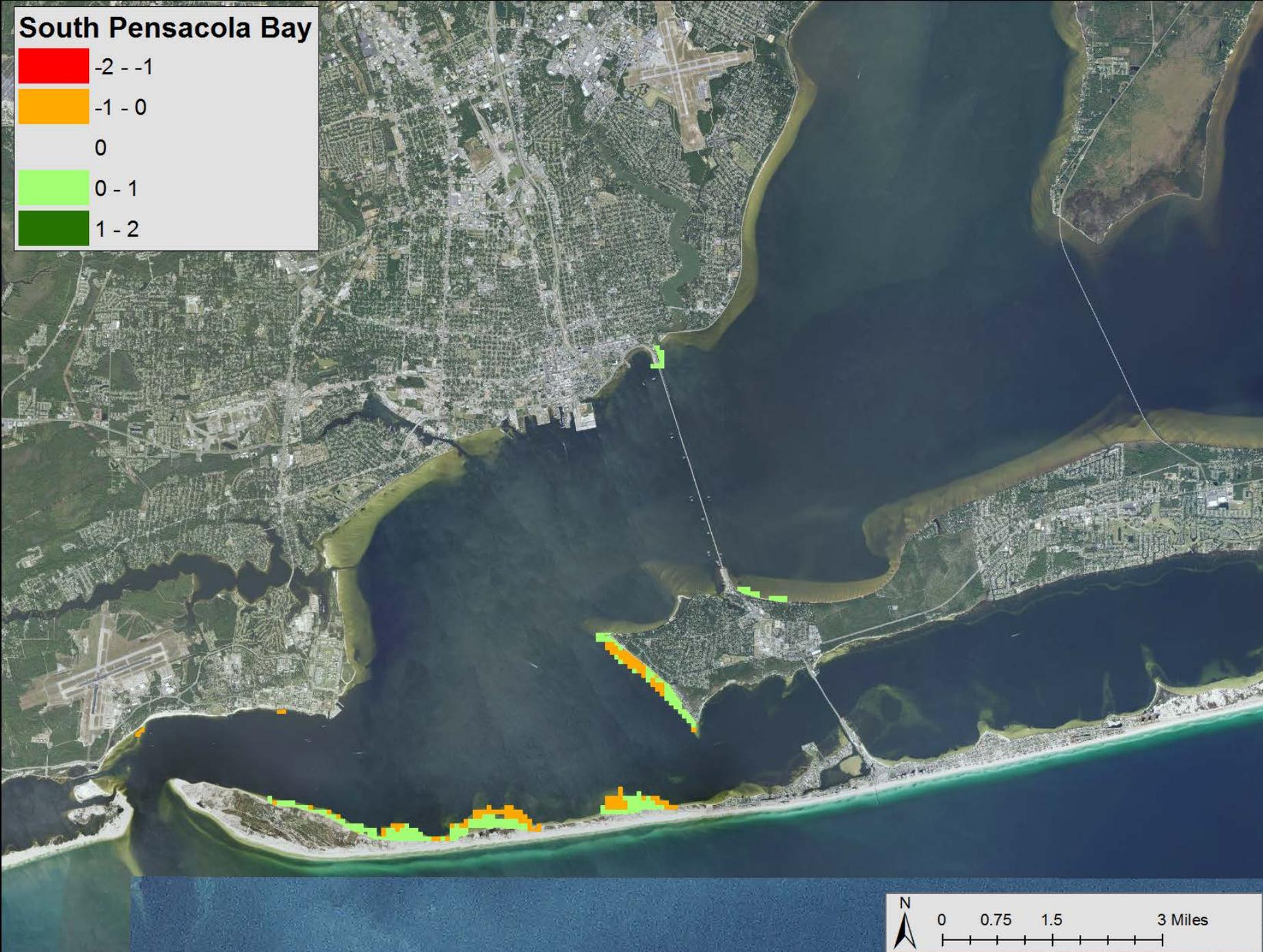
Big Lagoon Change 2003 to 2010





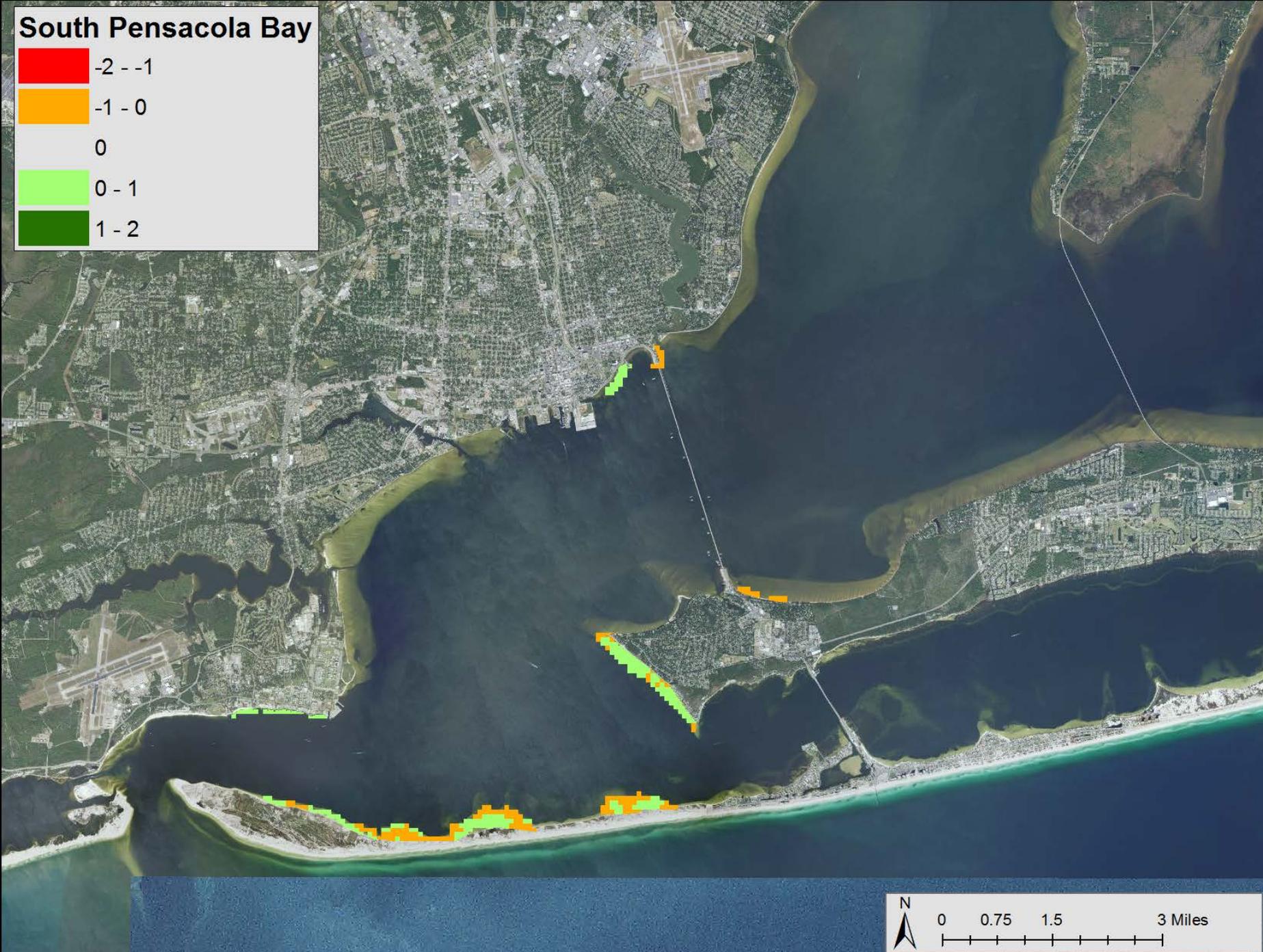
Big Lagoon Change 2010 to 2015





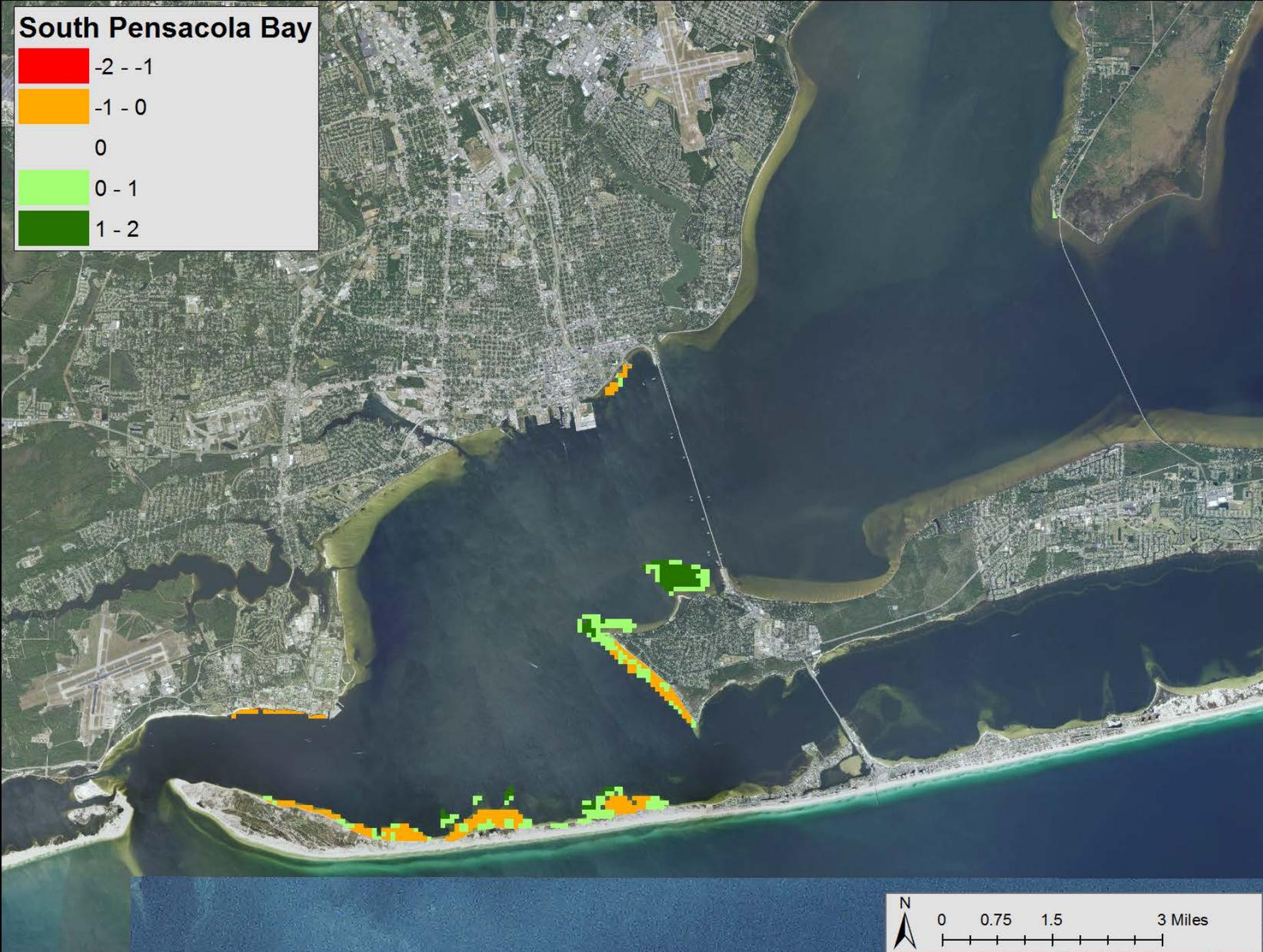
Pensacola Bay Change 1992 to 2003





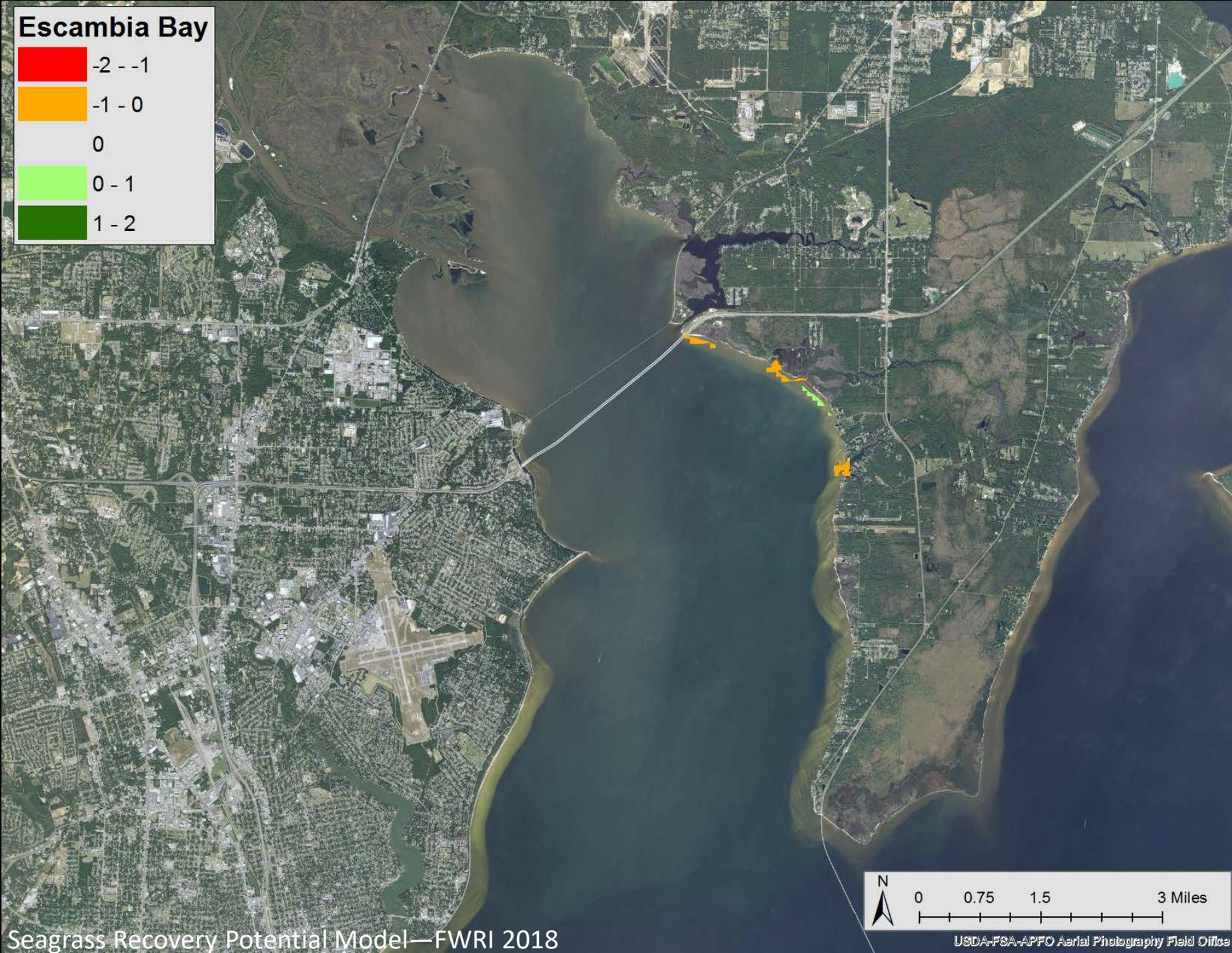
Pensacola Bay Change 2003 to 2010





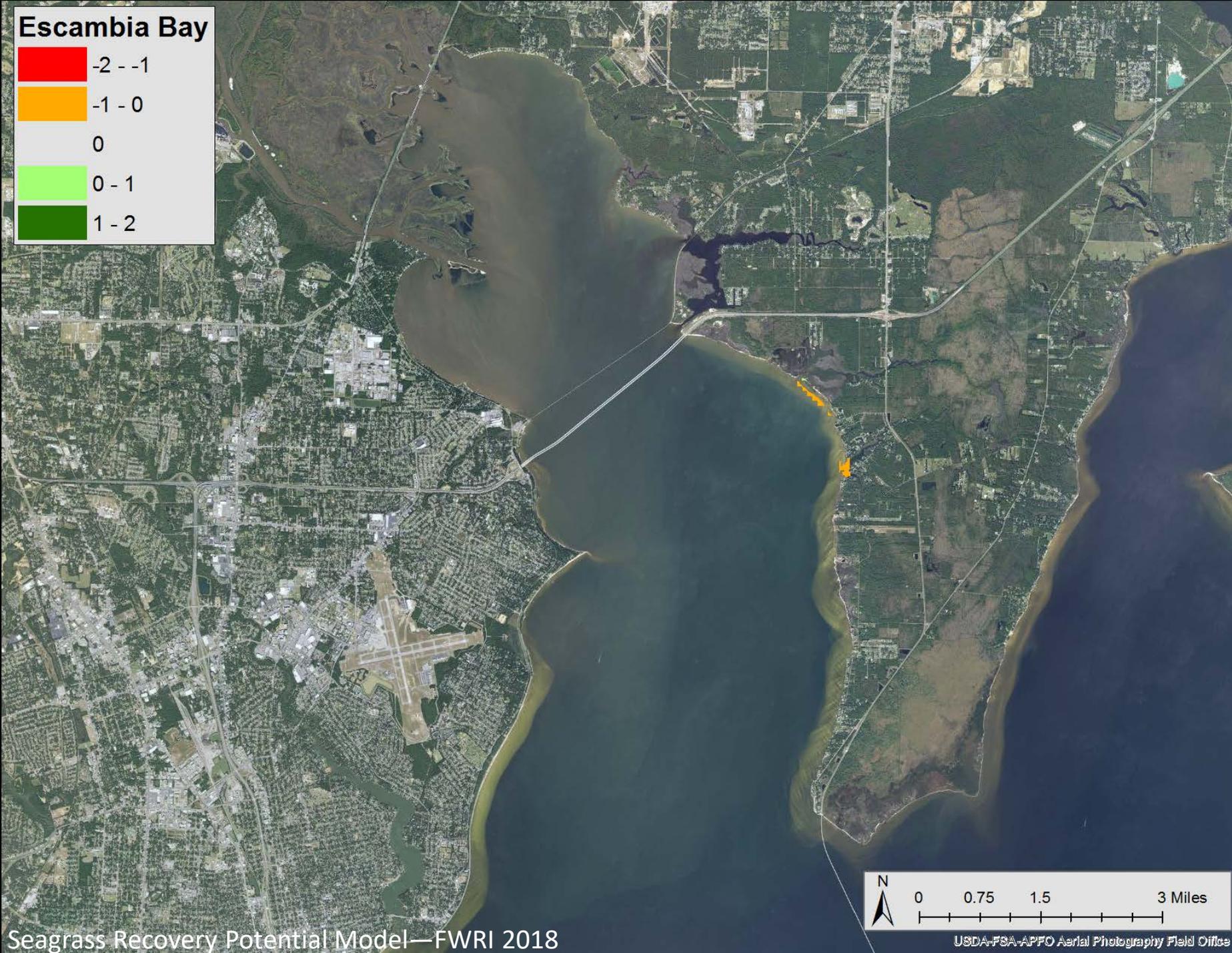
Pensacola Bay Change 2010 to 2015





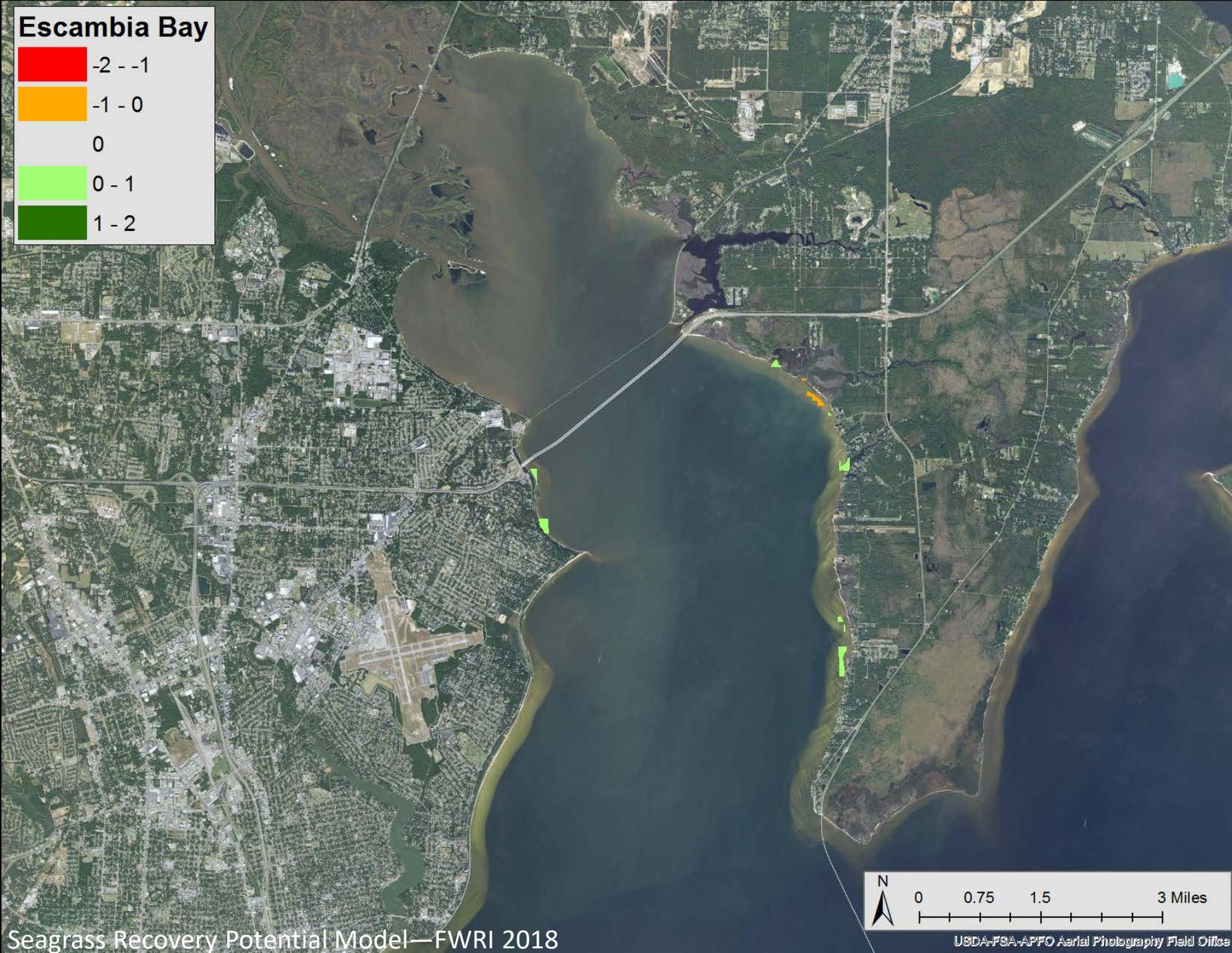
Escambia Bay Change 1992 to 2003





Escambia Bay Change 2003 to 2010





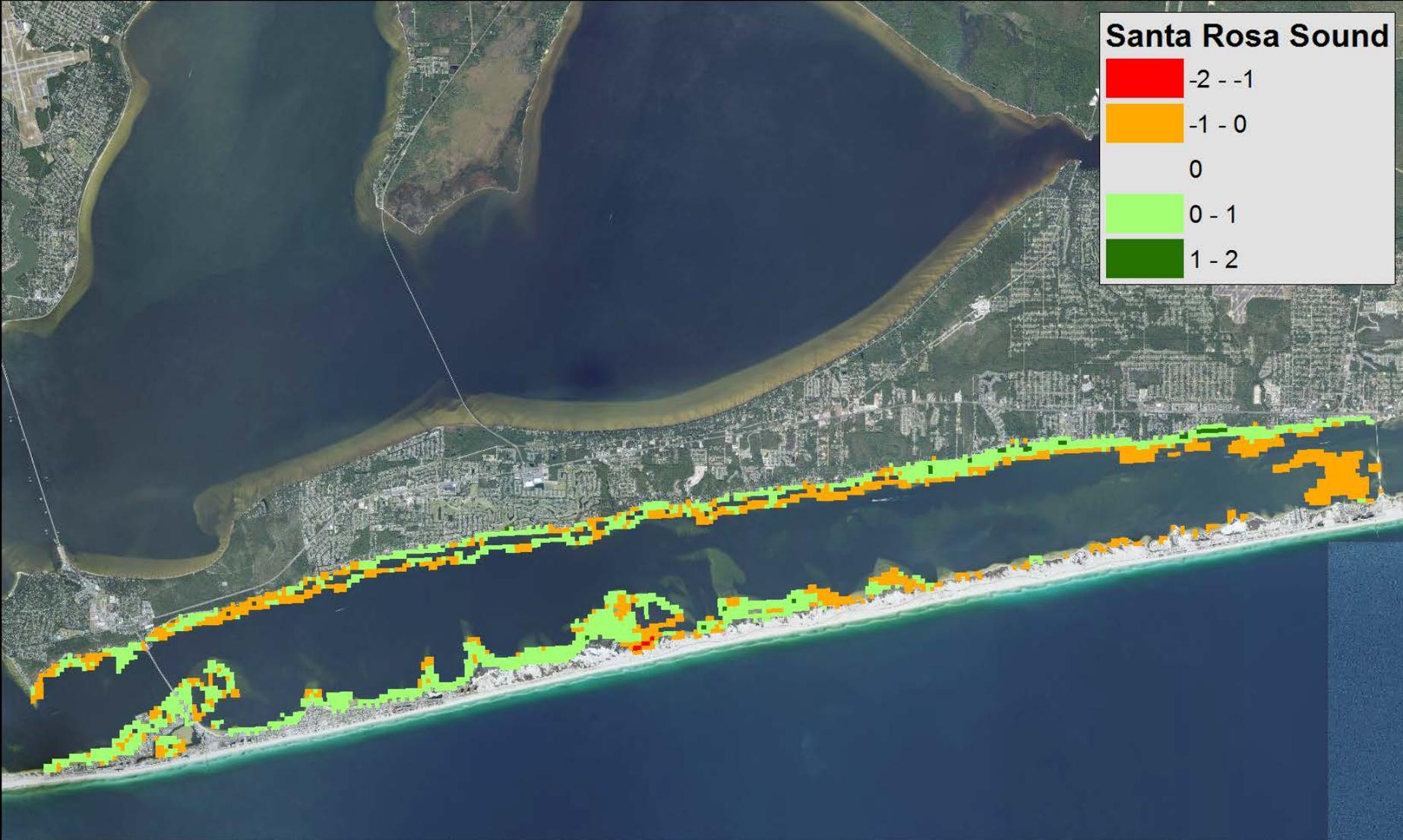
Escambia Bay Change 2010 to 2015



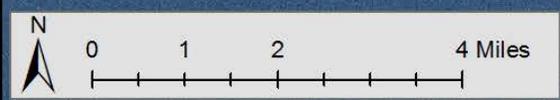


Santa Rosa Sound Change 1992 to 2003





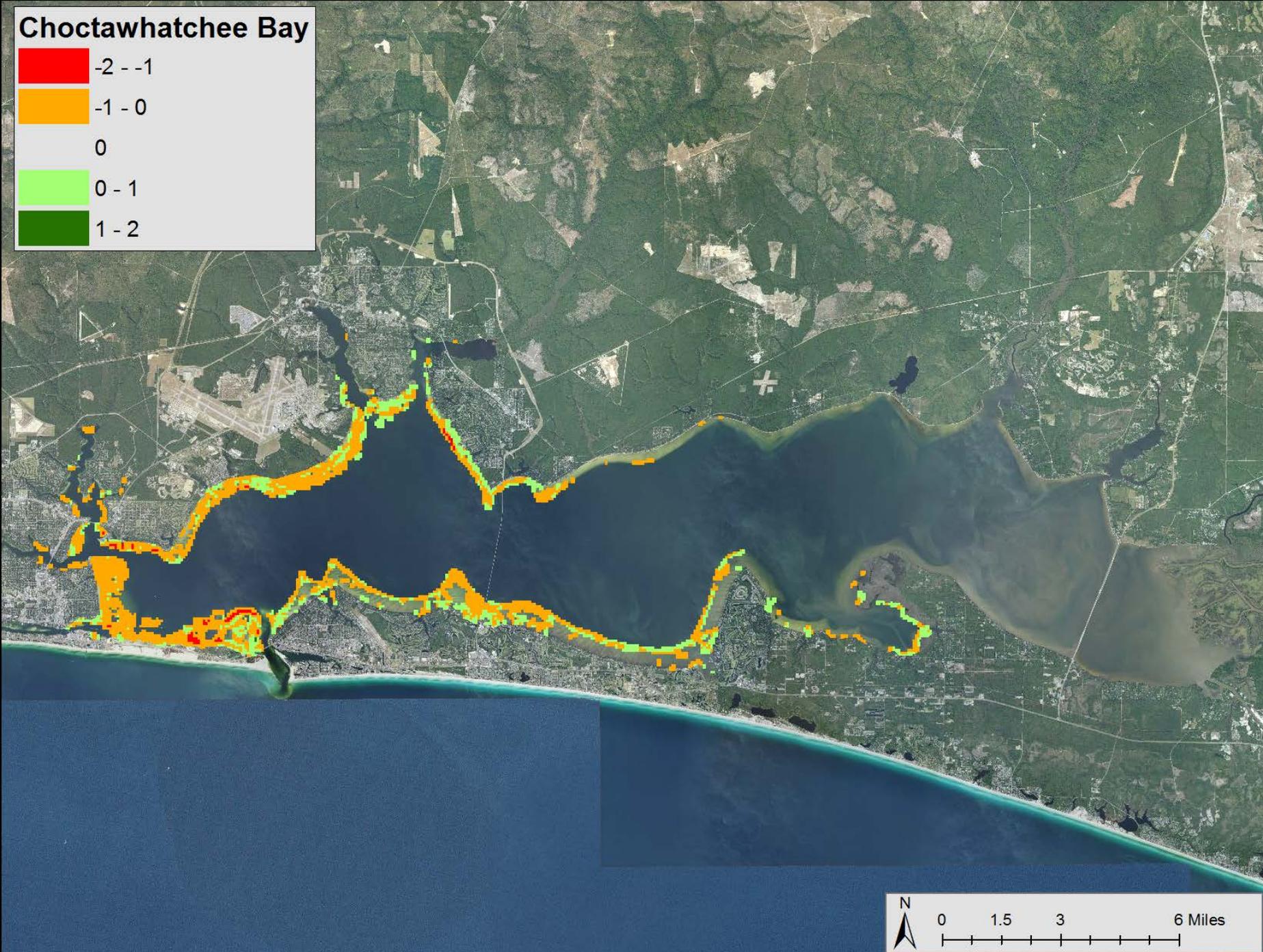
Santa Rosa Sound Change 2003 to 2010





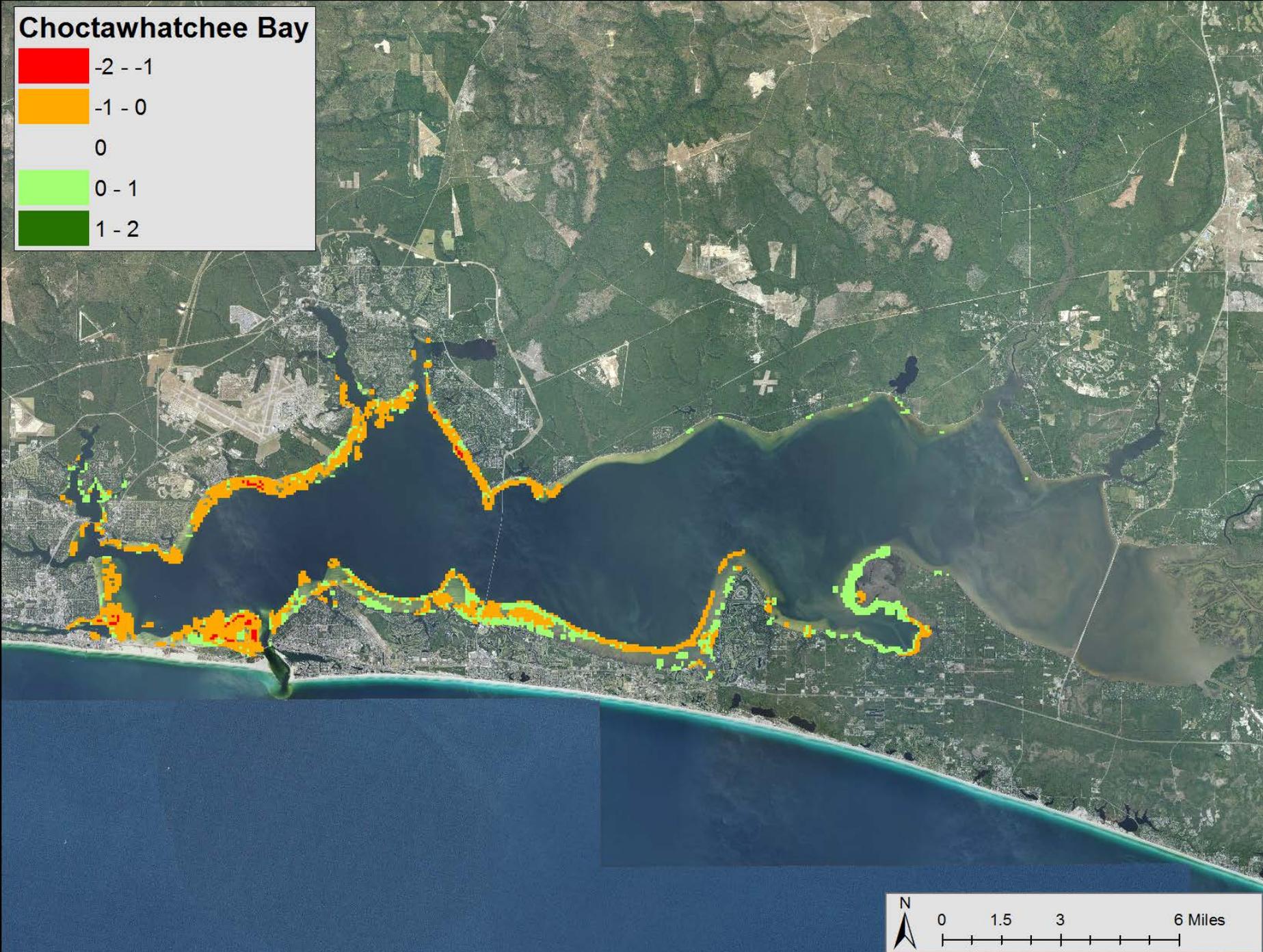
Santa Rosa Sound Change 2010 to 2015





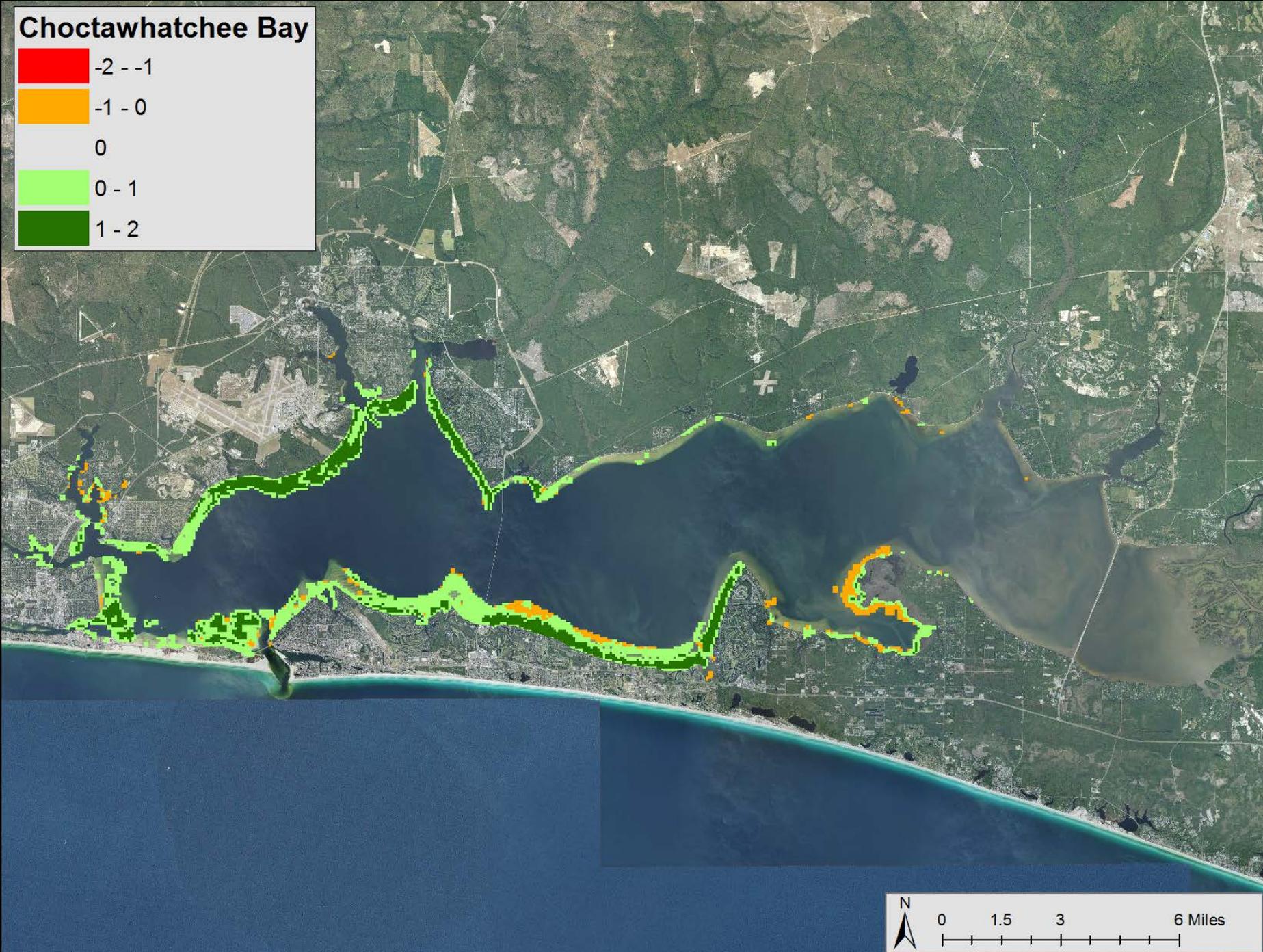
Choctawhatchee Bay Change 1992 to 2003





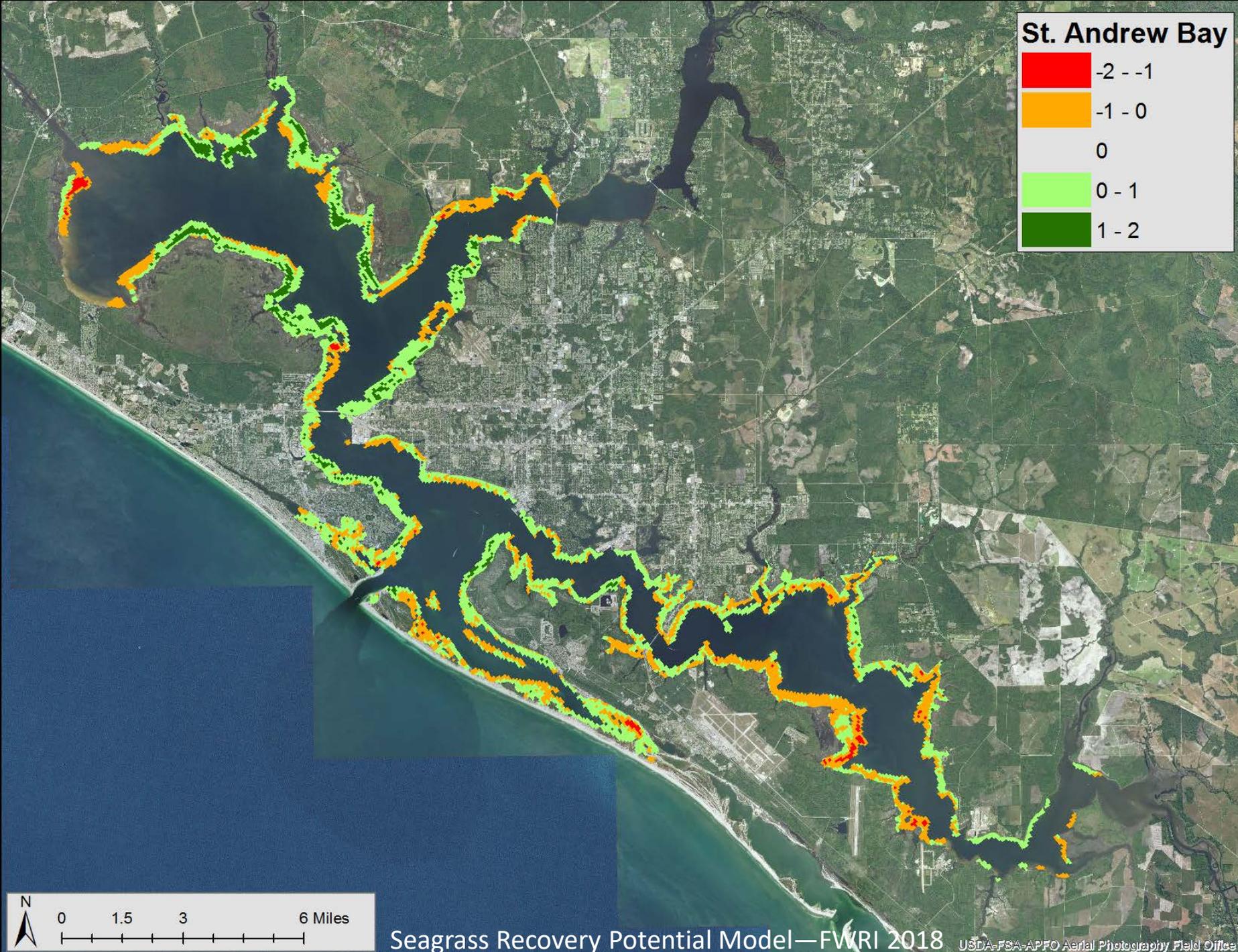
Choctawhatchee Bay Change 2003 to 2007





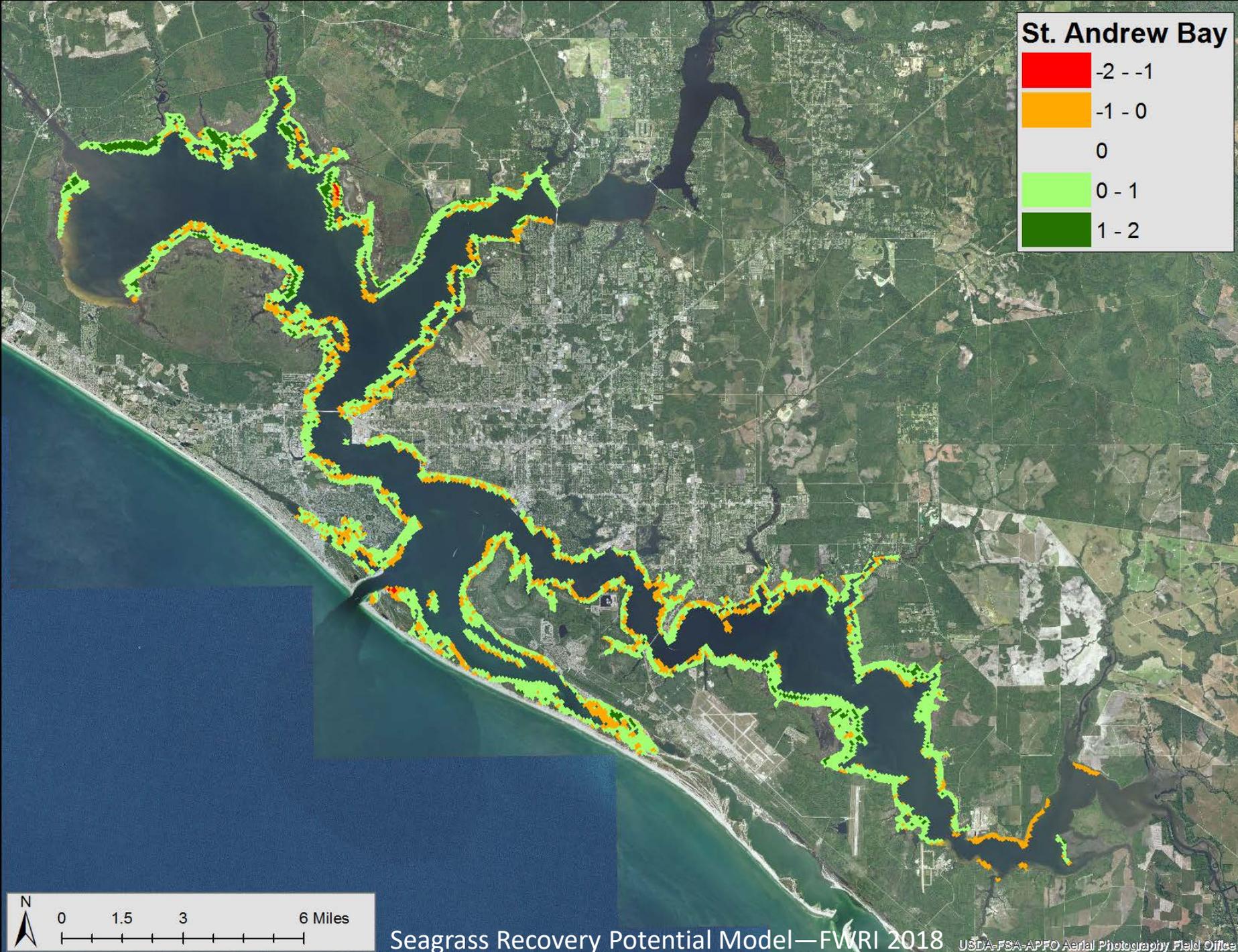
Choctawhatchee Bay Change 2007 to 2015





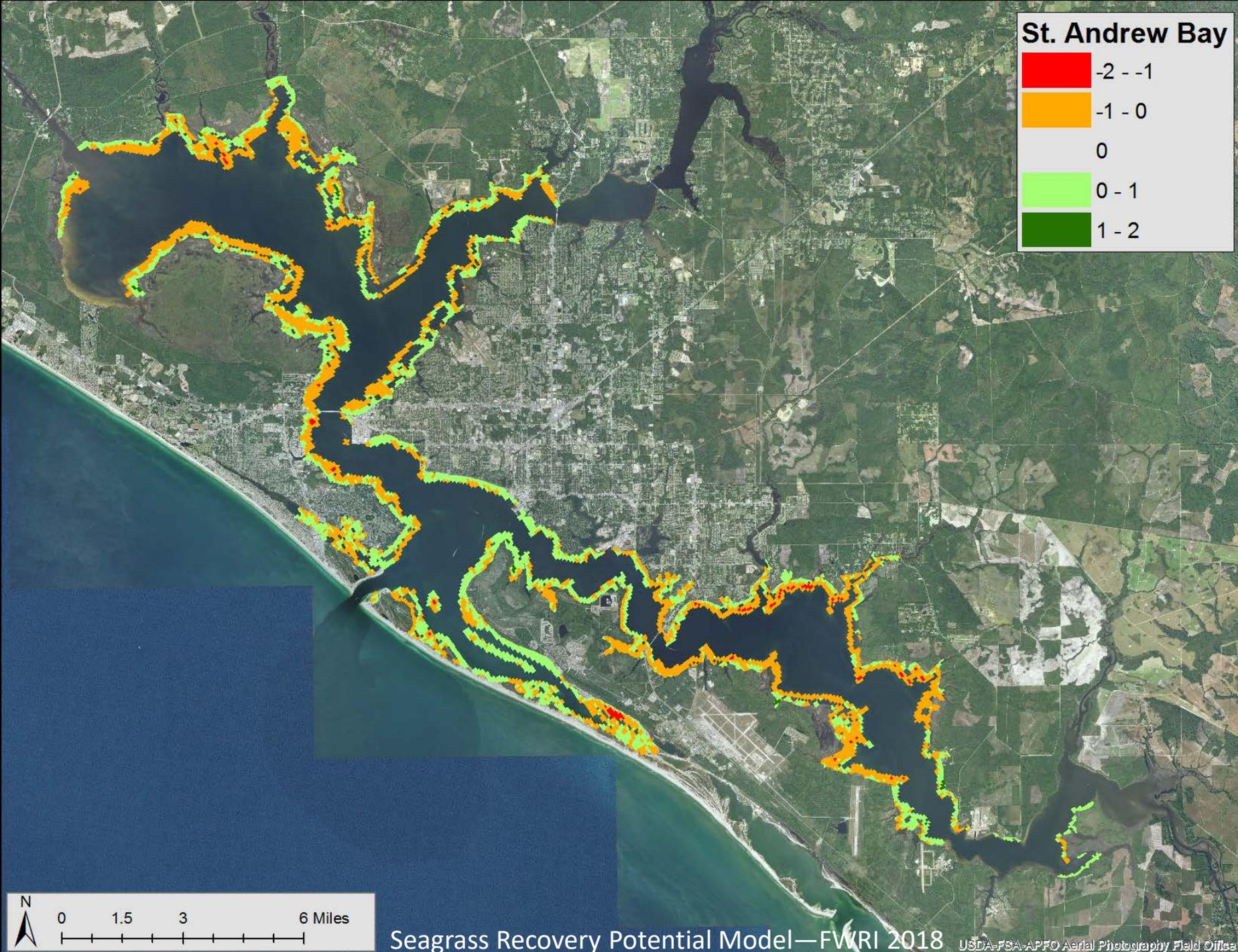
St. Andrew Bay Change 1992 to 2003





St. Andrew Bay Change 2003 to 2010

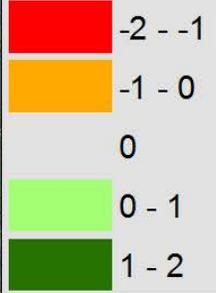




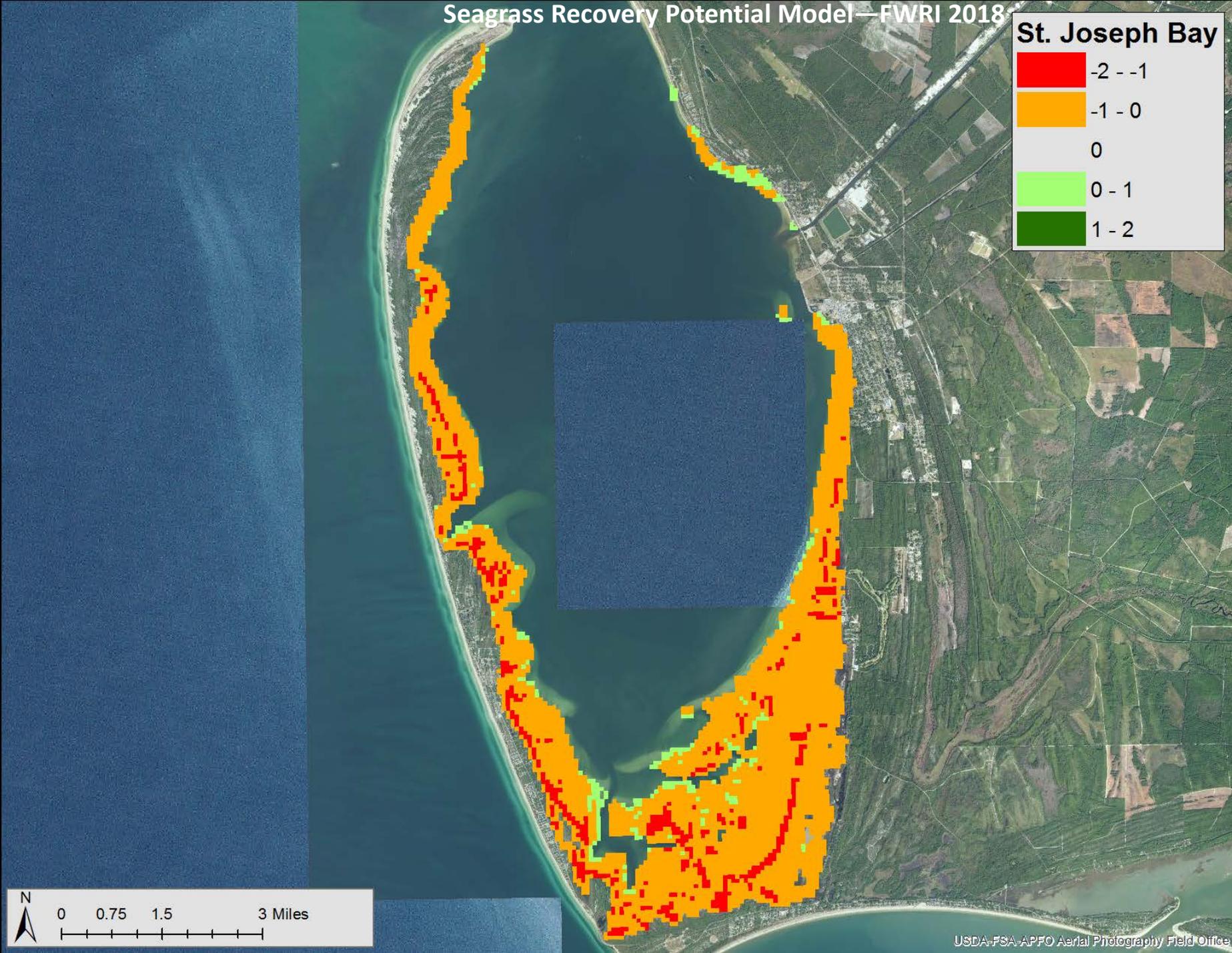
St. Andrew Bay Change 2010 to 2015



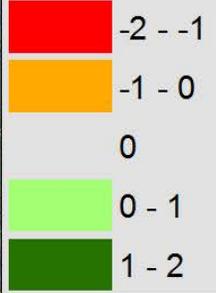
St. Joseph Bay



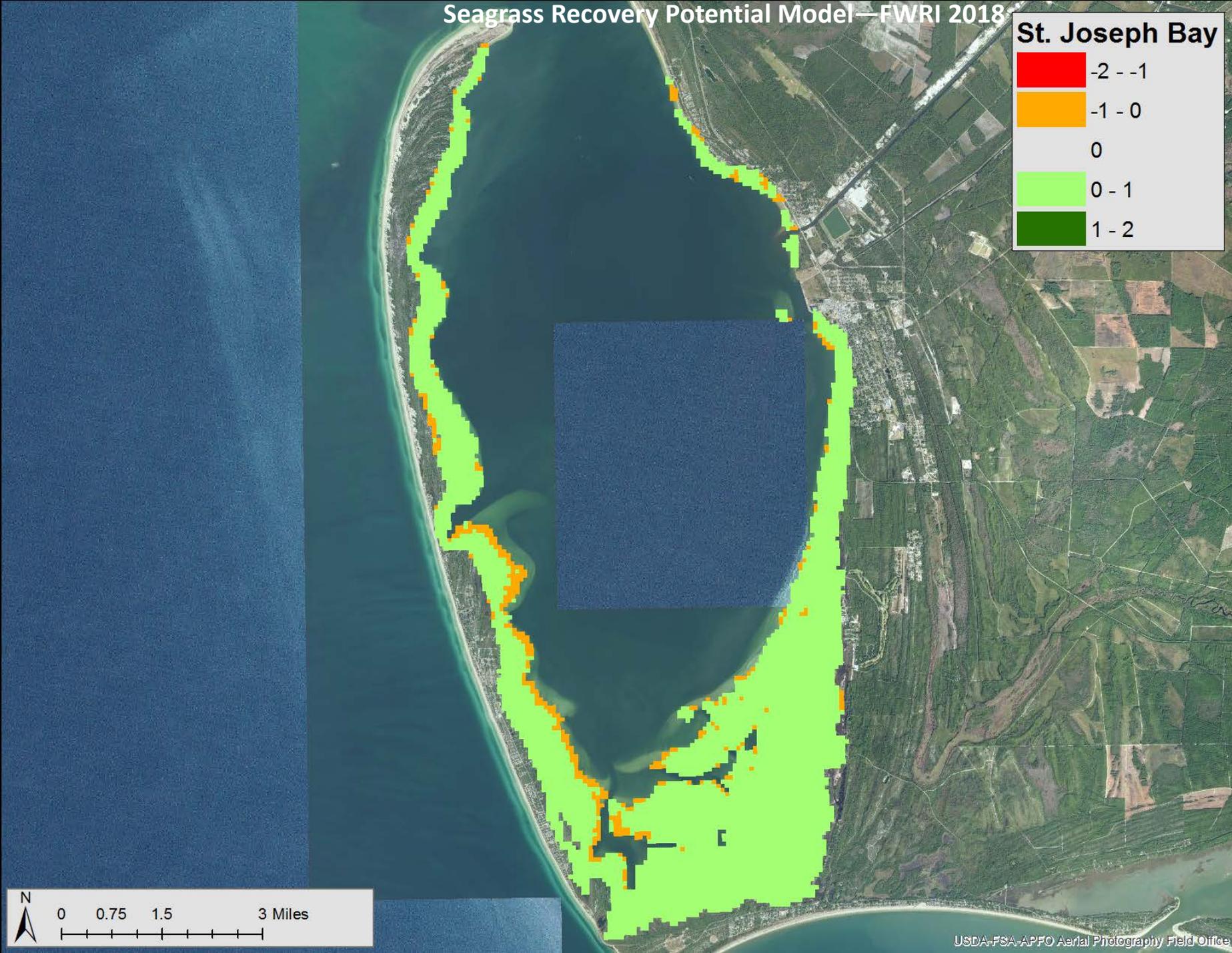
St. Joseph Bay Change 1992 to 2003



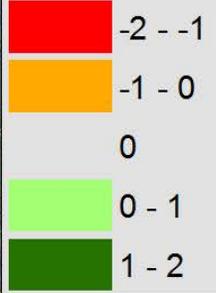
St. Joseph Bay



St. Joseph Bay Change 2003 to 2010



St. Joseph Bay



St. Joseph Bay Change 2010 to 2015

