

Seagrass Loss in Horseshoe Cove

Horseshoe Cove and Suwannee Sound Workshop.
March 10, 2021

Paul Carlson, Laura Yarbro, and many others!

Seagrass Assessment and Restoration Team 2019



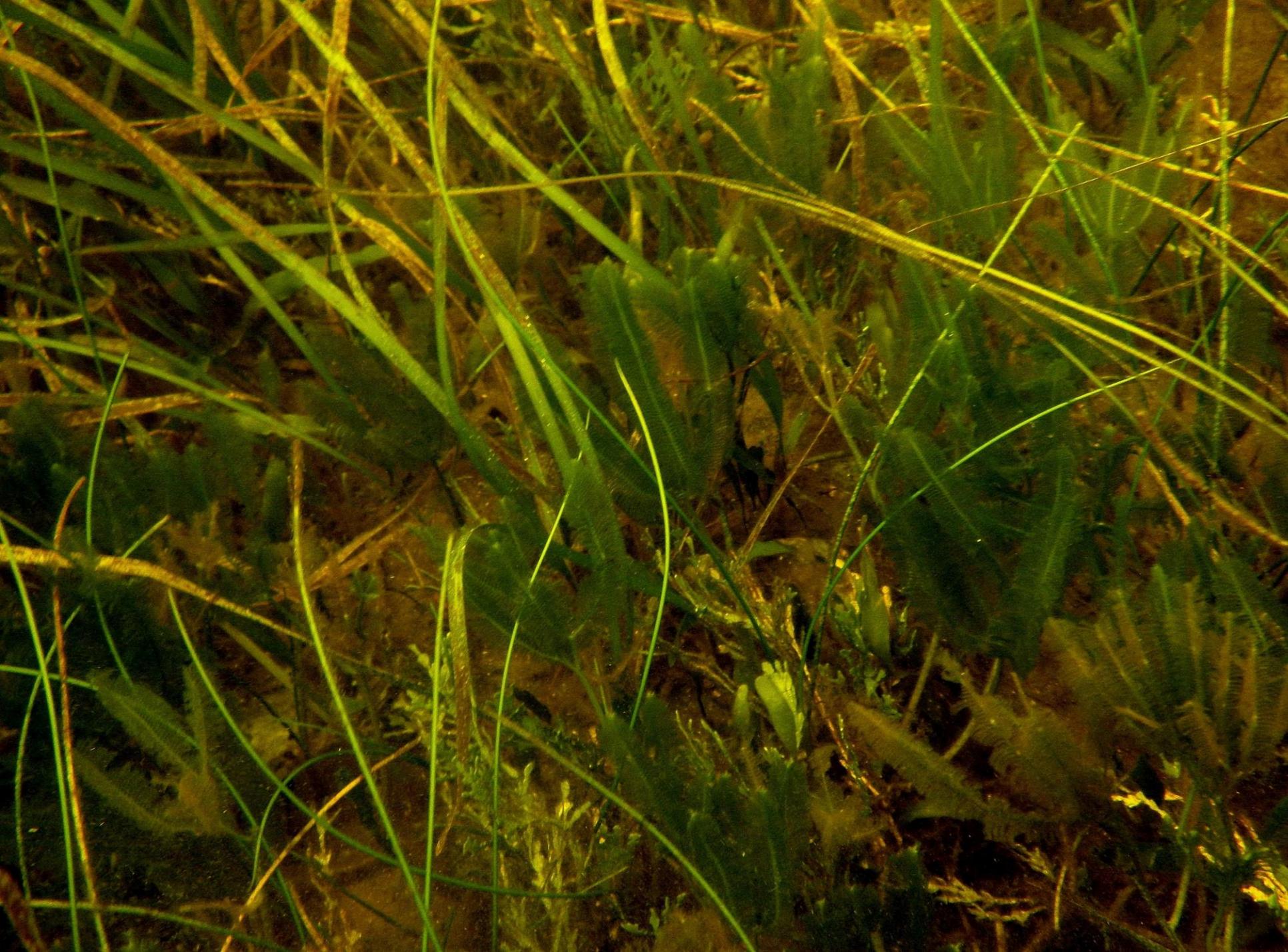


Seagrass Integrated Mapping and Monitoring Program

Florida seagrass beds are extremely valuable marine habitats. Many economically important fish and shellfish species depend on seagrass beds for critical stages of their life history. Seagrasses provide food and shelter for endangered mammals and turtles and play a role in nutrient cycles, sediment stabilization, coastal biodiversity, and the global carbon cycle. Seagrasses cover nearly 2.5 million acres of shallow sediments near Florida's coastline and in its estuaries and bays. An additional 2 million acres likely exist offshore in deeper waters in the Big Bend region and off the southwest Florida coast.

During the 20th century, seagrasses experienced large declines in acreage, as well as changes in species and in the density and size of beds. Recognizing the value of seagrass beds spurred agencies and governments, from local to federal, to restore and protect this resource. The FWC's Fish and Wildlife Research Institute developed the Seagrass Integrated Mapping and Monitoring (SIMM) program to protect and manage seagrasses in Florida by providing a collaborative resource for seagrass mapping, monitoring, and data sharing. The SIMM program works with scientists statewide to facilitate and coordinate mapping and monitoring of seagrasses and to report findings and assessments of seagrass health online. A statewide report and chapters on each estuary or coastal region are in an easy-to-read format that provides scientists, resource managers, legislators, and other stakeholders a summary of the status of seagrasses in Florida. Given the budget problems that many agencies face, the program also works to leverage resources and to decrease and share costs of seagrass mapping and monitoring.









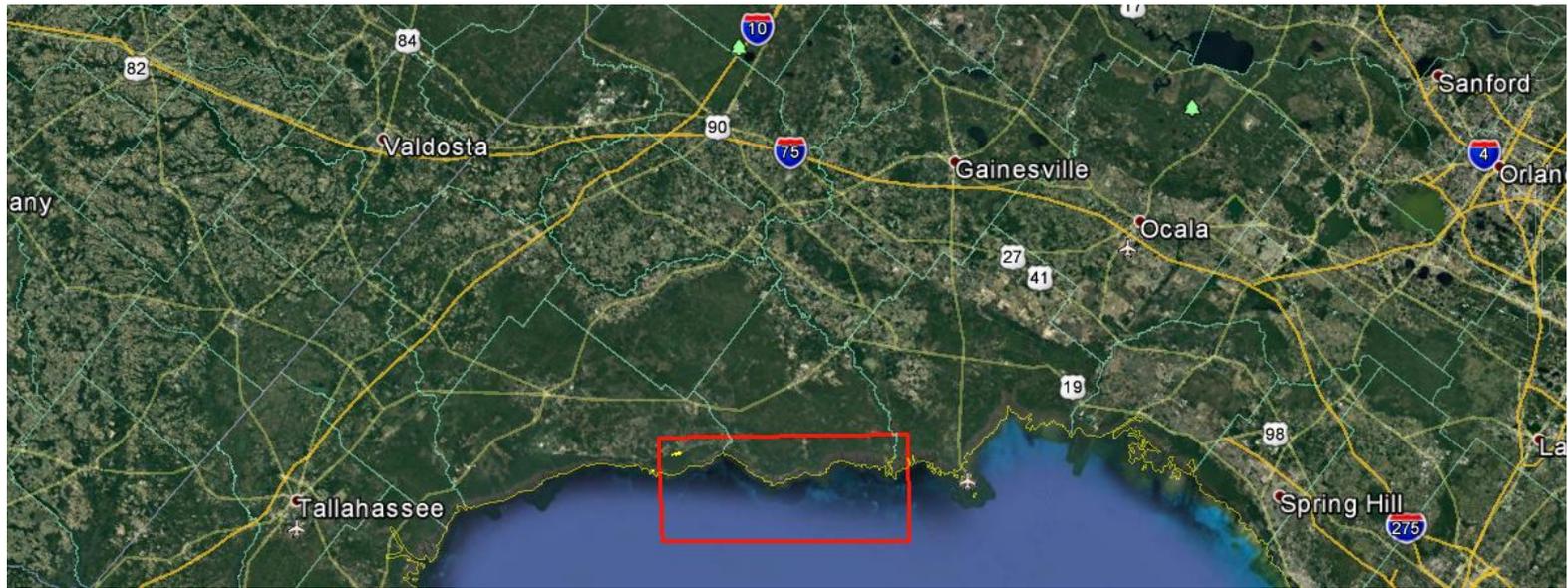
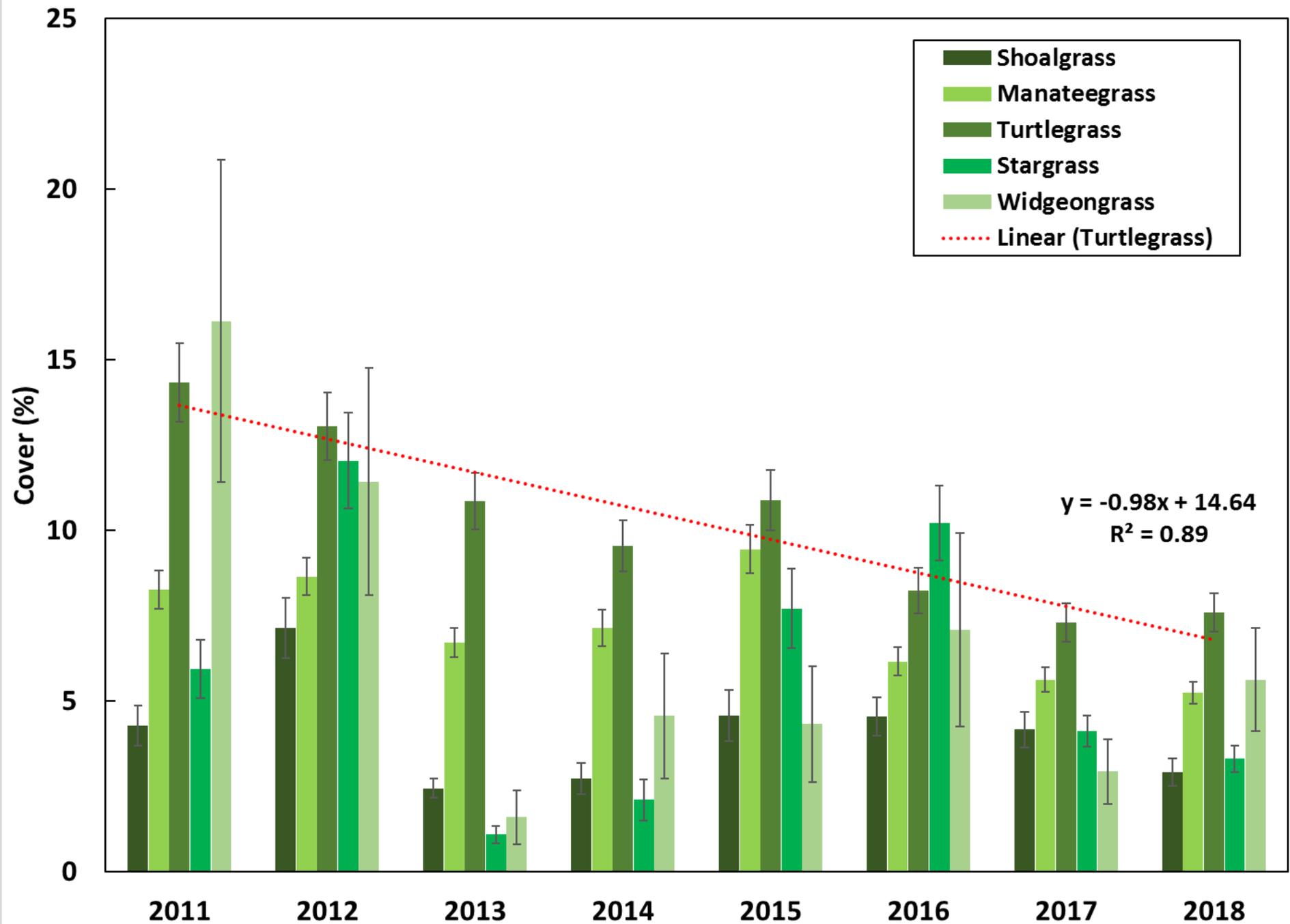


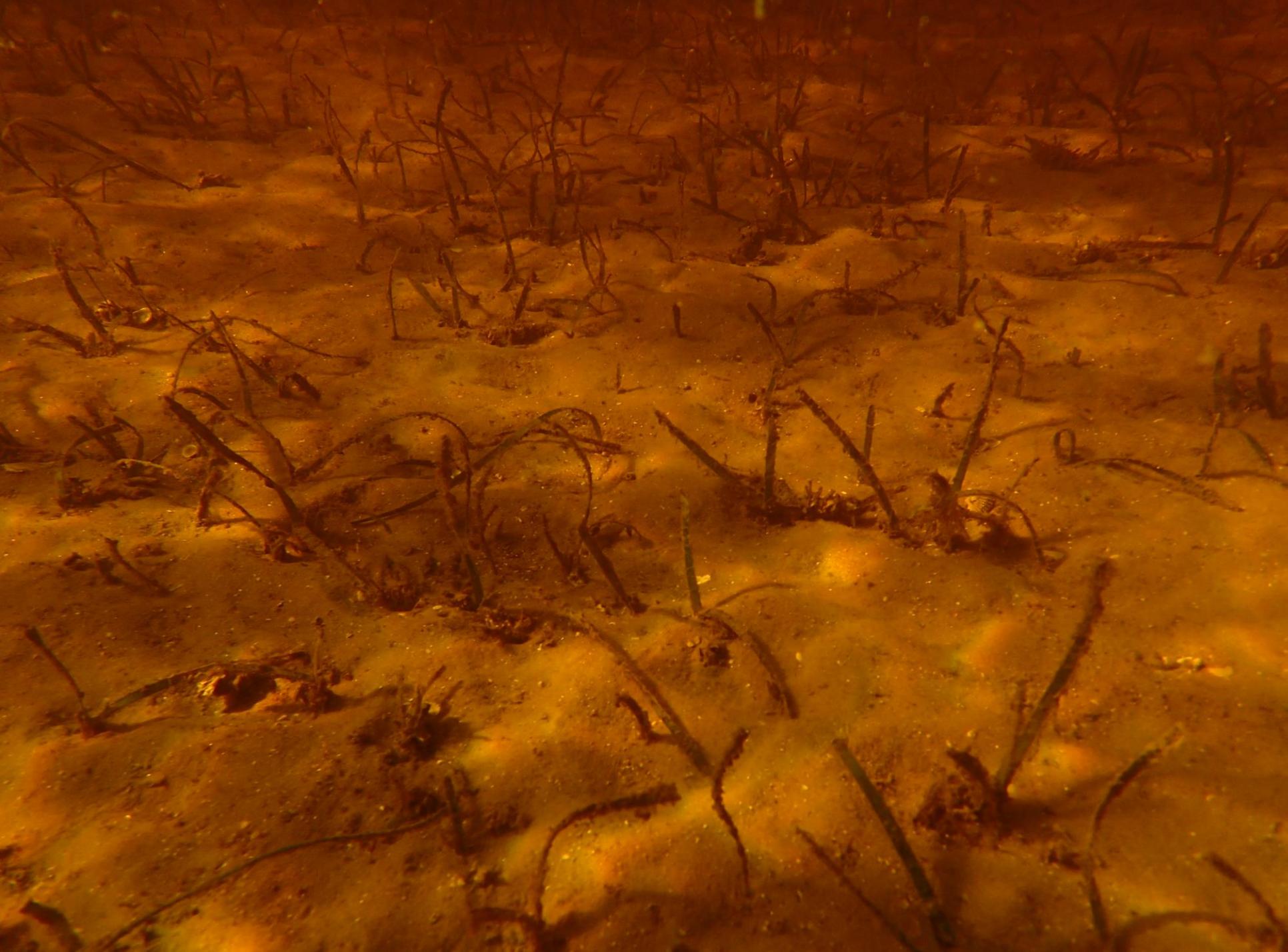
Figure 1 Seagrass acreage in the southern Big Bend in 2006. Continuous seagrass beds are shown in dark green; patchy beds are shown in light green.

Seagrass Cover Change (km²), Southern Big Bend Region, 2006-2015.

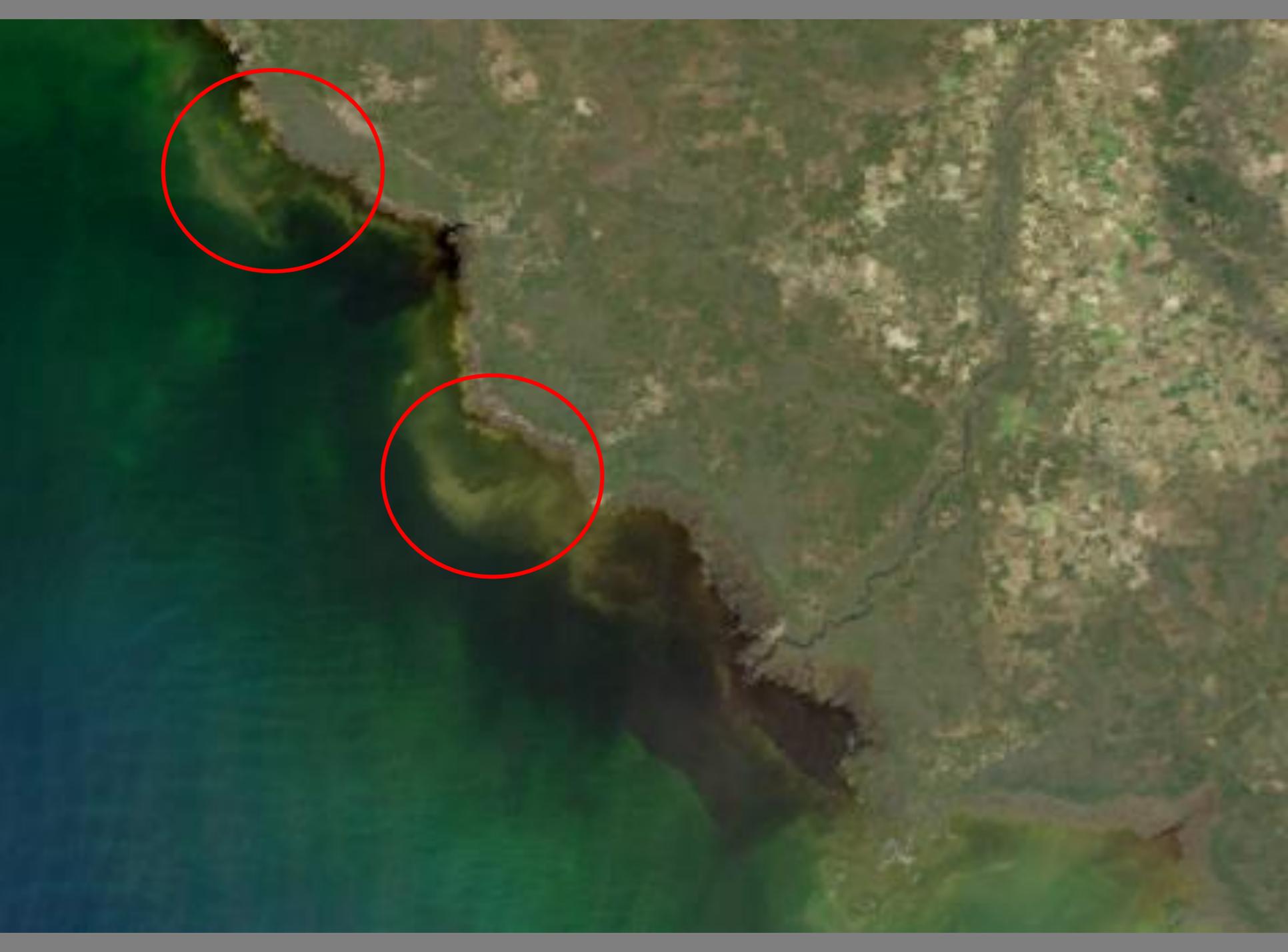
		2006	2011	2015	2015-2006
Steinhatchee South	Continuous	15.3	9.4	7.3	-8.0
	Patchy	5.4	8.8	8.1	2.7
	Total	20.7	18.1	15.5	-5.2
Horseshoe West	Continuous	97.1	87.0	74.9	-22.1
	Patchy	12.2	33.4	28.6	16.4
	Total	109.3	120.5	103.6	-5.7
Horseshoe East	Continuous	12.2	31.2	12.3	0.1
	Patchy	16.3	15.9	8.5	-7.7
	Total	28.5	47.0	20.8	-7.6
Suwannee	Continuous	0.5	3.6	0.6	0.1
	Patchy	2.6	4.4	5.8	3.3
	Total	3.1	8.1	6.4	3.3
	All Regions	Total Loss (km²)			-15.3
		Fragmentation (km²)			-29.9











Big Grass Island

Little Grass Island

Steinhatchee

Lazy Island

Pine Log Island

Bird Island

Tater Island

ALT 55

358

HWY 91 NE

Image Landsat / Copernicus

Google

