



Overview of the Lower St Johns River Mainstem BMAP

June 2019
FSA Annual Meeting



Session Overview

- *Four parts to this session...*
 - Overview
 - Projects/BMAP status
 - River conditions
 - Stakeholder efforts



LSJR Mainstem BMAP

Fun Facts:

- Southern-most river for east-coast anadromous fish
- Major SE U.S. port
- 2 large military bases, important commercial and recreational fisheries, significant cultural and aesthetic resource (American Heritage River)
- Florida's longest river



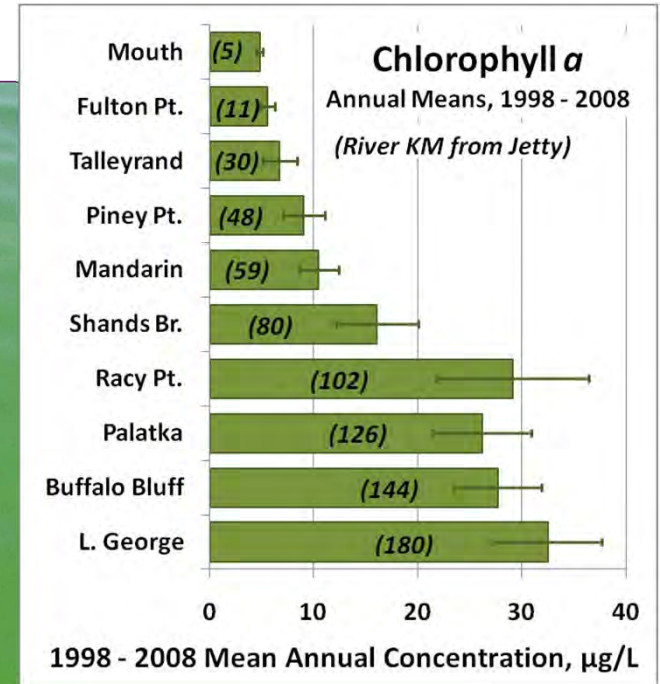
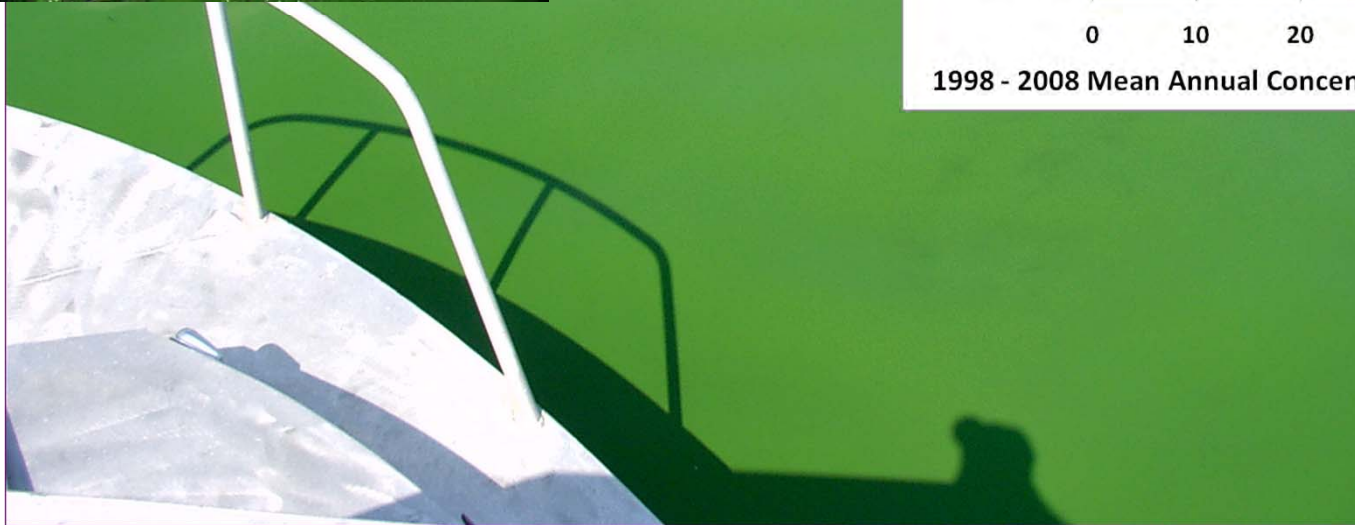


LSJR Mainstem Impairment & TMDL

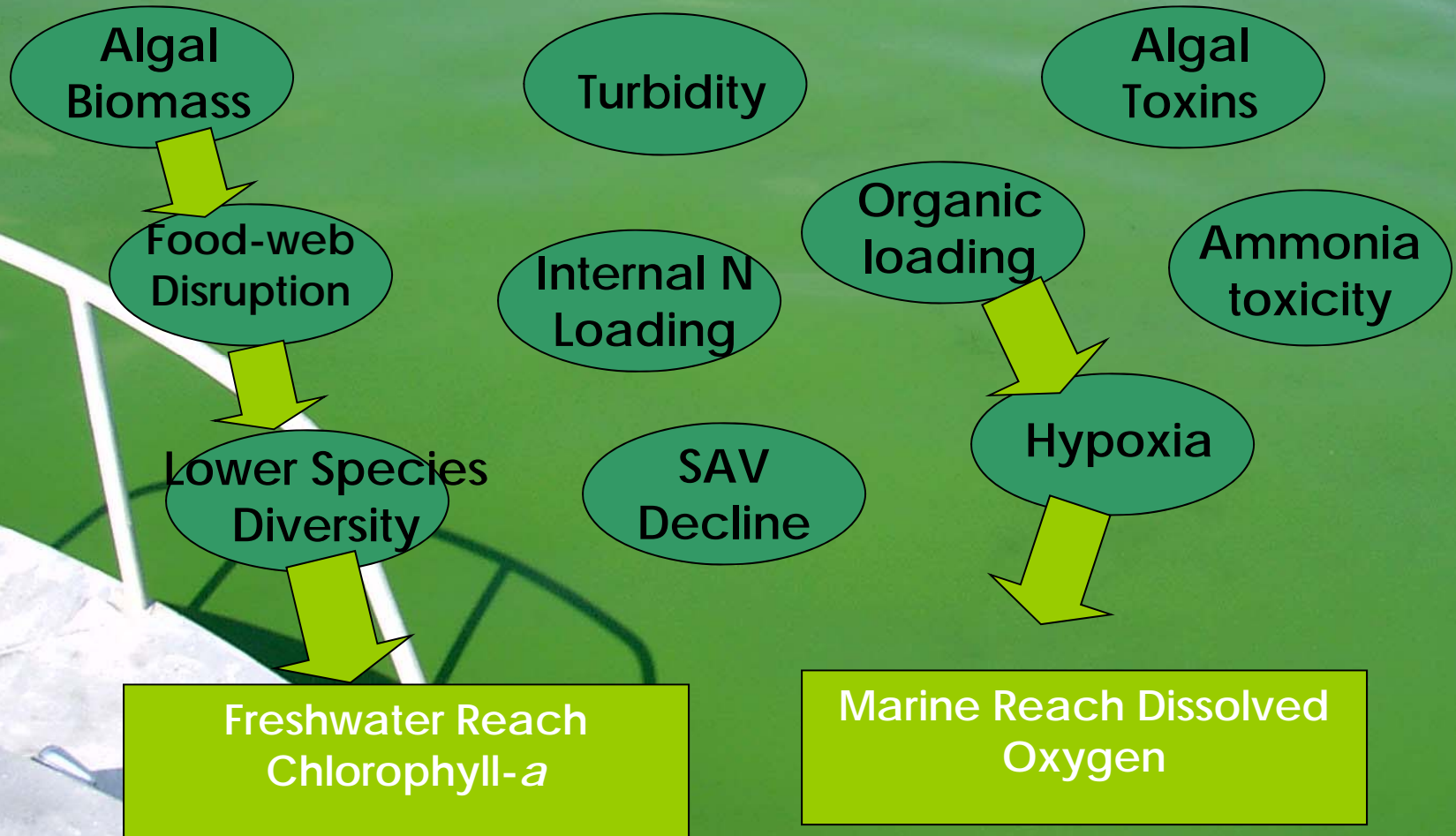
Date	Activity
September 2003	Verified as impaired by FDEP
December 2003	FDEP's TMDLs are adopted
April 2004	EPA approves three main stem TMDLs
August 2004	Federal lawsuit over EPA's approval of FDEP's marine TMDL (DO \neq 5 mg/L)
October 2004	EPA rescinds marine TMDL approval
January 2006	EPA establishes new marine (TN) TMDL (DO = 5 mg/L)
May 2006	FDEP adopts a dissolved oxygen SSAC for the marine section
October 2006	EPA approves the SSAC
September 2007	EPA proposes a new marine TN TMDL (DO \neq 5 mg/L)
January 2008	EPA TMDL goes into effect
February 2008	FDEP proposes EPA's revised TMDL
June 2008	FDEP TMDL adopted
October 2008	FDEP adopts Main Stem BMAP



LSJR Main Stem



LSJR Nutrient TMDL: Eutrophication Response Variables





LSJR Main Stem BMAP Development

- October 2003- September 2008
- 41 Executive Committee meetings from 2002-2008
- Many other technical/task group meetings
- Participation included just about everyone...





LSJR Main Stem BMAP

- Adopted by Secretarial Order in September 2008
- Allocates loads and reductions to individual entities
- Requirements in both marine and freshwater sections
- Regulatory requirements
- Costs of implementation demanded a fair and equitable allocation process
- Overall Goal - Reduce magnitude and frequency of blooms



LSJR Mainstem BMAP

Source	Freshwater TN	Freshwater TP	Marine TN
WWTF	34.06%	43.75%	49.10%
Future Reverse Osmosis Facilities	0.00%	0.00%	0.00%
Agriculture	37.45%	14.96%	67.43%
Urban NPS (MS4/non MS4)	19.77%	30.86%	60.18%
Natural Background	0.0%	0.0%	0.0%
Atmospheric Deposition	0.0%	0.0%	0.0%
Upstream	31.59%	35.98%	See freshwater section TN reductions



LSJR Mainstem BMAP

- Implementation included
 - Annual follow-up and meetings
 - Annual reporting
 - Some WQCT
 - Some enforcement
 - Many lessons learned
 - A significant effort from the SJRWMD to monitor conditions
 - Even more significant effort from stakeholders to implement projects to reduce loads...





LSJR Mainstem BMAP

- Next up...
 - Status of implementation

