

Indian River

SUMMARY

In general, the overall eutrophic condition of the Indian River Lagoon has been characterized as moderate and remains unchanged since the last survey. More specifically, some areas have not changed (Banana River, Mosquito Lagoon), others have improved (Northern Indian River Lagoon), and others (St. Lucie Estuary) have worsened.

Influencing Factors

Moderate to high nitrogen input and moderate to high susceptibility (low ability for dilution and flushing of nutrients).



Eutrophic Conditions **

Level of expression of eutrophic conditions is substantial.



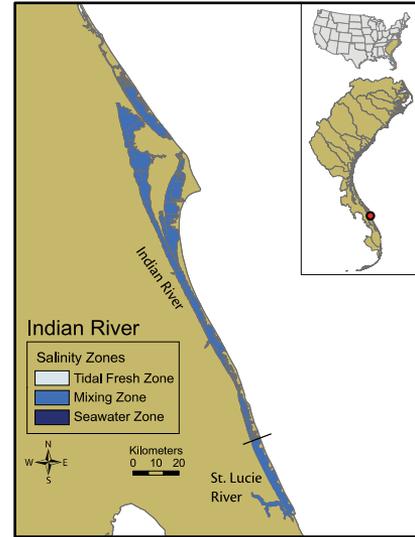
Future Outlook

Nutrient related symptoms observed in the estuary are likely to substantially worsen.



ASSETS Rating

Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.



Influence/eutro/future

Unknown

Low

Mod Low

Moderate

Mod High

High

Reliability and Confidence

ASSETS

Unknown

High

Good

Moderate

Poor

Bad

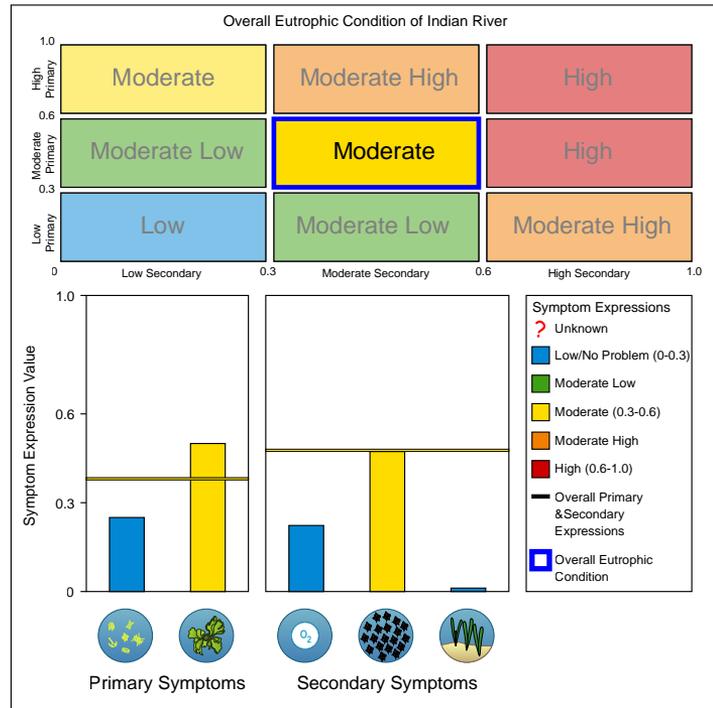
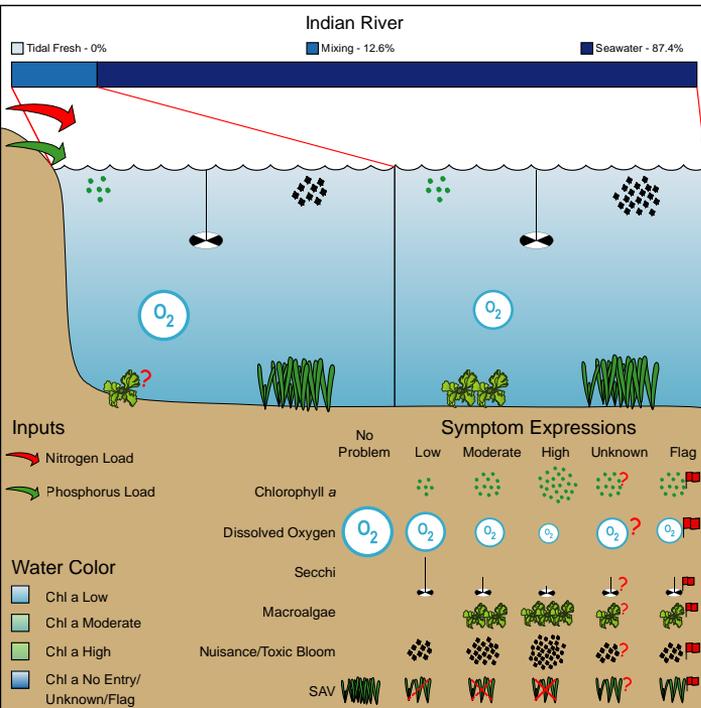
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	866	Urban (km ²)	1,147 (39%)	Area (km ²)	3,093
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	694 (23.6%)	Mean elevation (m)	5
Mixing zone area (km ²)	109	Forest (km ²)	132 (4.5%)	Max. elevation (m)	14
Saltwater zone area (km ²)	757	Wetland (km ²)	357 (12.1%)	Watershed: estuary ratio	3.6
Volume (1,000 x m ³)	666,820	Range (km ²)	614 (20.8%)	TSS (tonne y ⁻¹)	39,700
Depth (m)	0.77	Barren (km ²)	0 (0%)	TN (kg y ⁻¹)	3,277,134
Tide Height (m)	0.32	Total (km ²)	2,945 (0%)	DIP (kg y ⁻¹)	405,420
Residence Time (d)	3	Population	471,807	TSS/est. area (tonne km ⁻² y ⁻¹)	46
		Popn: est. area ratio	545	TN/est. area (kg km ⁻² y ⁻¹)	3,784
				DIP/est. area (kg km ⁻² y ⁻¹)	468