

Mobile Bay

SUMMARY

Mobile Bay is characterized by moderate chlorophyll-a concentrations and low symptom expressions for dissolved oxygen, macroalgae, and nuisance/toxic blooms. Nutrient loading is expected to increase along with projected populations and conditions are expected to become worse in the future as a result.

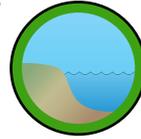
Influencing Factors

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



Eutrophic Conditions *

Primary symptoms beginning to indicate possible problems but still very few secondary symptoms expressed.



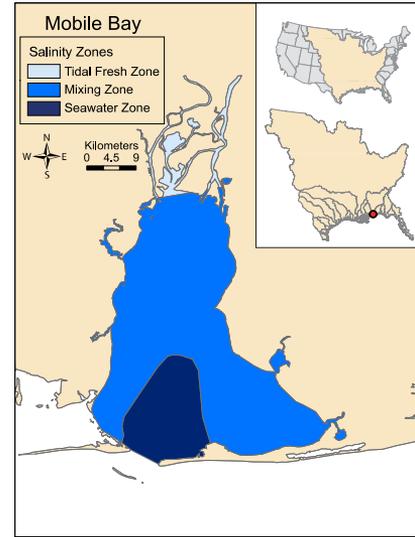
Future Outlook

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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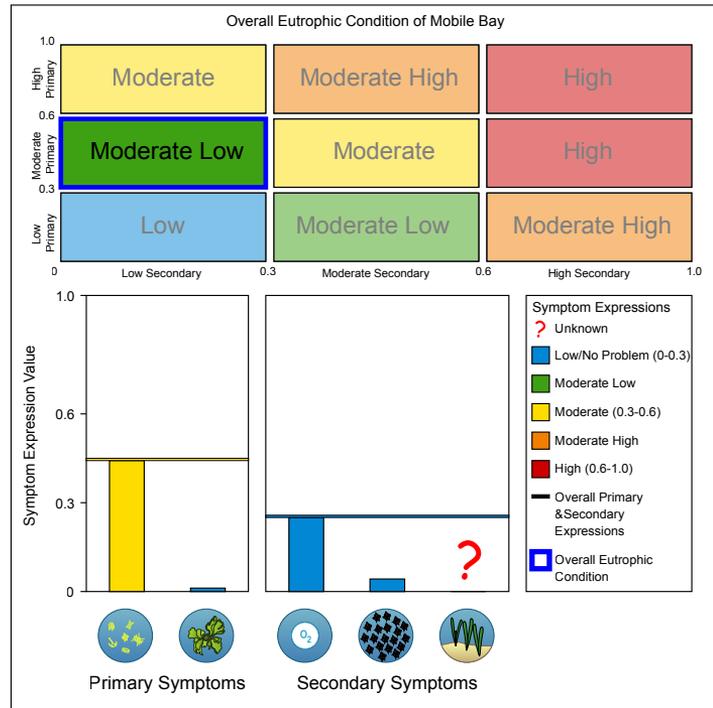
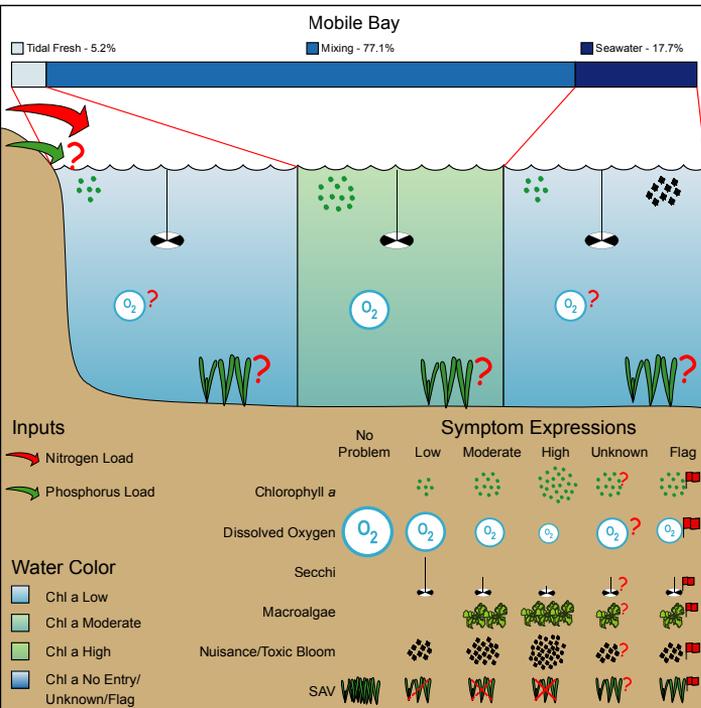
Unknown

Low

Moderate

High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population	Watershed Details / Input Loads
Area (km ²)	Urban (km ²)	Area (km ²)
1,079	5,877 (5.2%)	114,418
Tidal fresh zone area (km ²)	Agriculture (km ²)	Mean elevation (m)
56	26,405 (23.3%)	154
Mixing zone area (km ²)	Forest (km ²)	Max. elevation (m)
832	78,518 (69.4%)	1,189
Saltwater zone area (km ²)	Wetland (km ²)	Watershed: estuary ratio
191	2,186 (1.9%)	106.0
Volume (1,000 x m ³)	Range (km ²)	TSS (tonne y ⁻¹)
2,060,890	210 (0.2%)	1,790,000
Depth (m)	Barren (km ²)	TN (kg y ⁻¹)
1.91	0 (0%)	59,900,000
Tide Height (m)	Total (km ²)	DIP (kg y ⁻¹)
0.36	113,195 (0%)	Unknown
Residence Time (d)	Population	TSS/est. area (tonne km ⁻² y ⁻¹)
9	3,820,760	1,659
	Popn: est. area ratio	TN/est. area (kg km ⁻² y ⁻¹)
	3,541	55,514
		DIP/est. area (kg km ⁻² y ⁻¹)
		Unknown