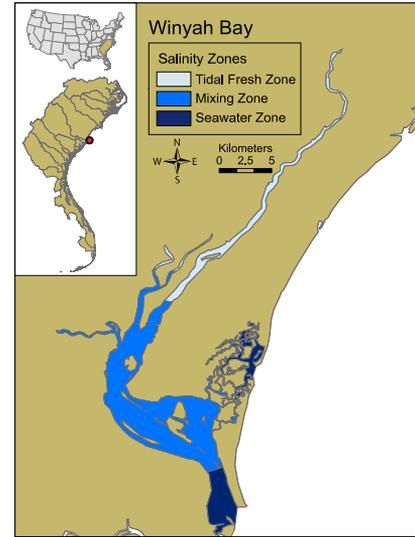


Winyah Bay

SUMMARY

Overall eutrophic conditions in Winyah Bay are moderate. Moderate levels of dissolved oxygen periodically reach biologically stressful levels. SAV and macroalgae have not been observed in this system. The data provided here is for Winyah Bay only, it does not include North Inlet.



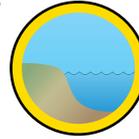
Influencing Factors

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

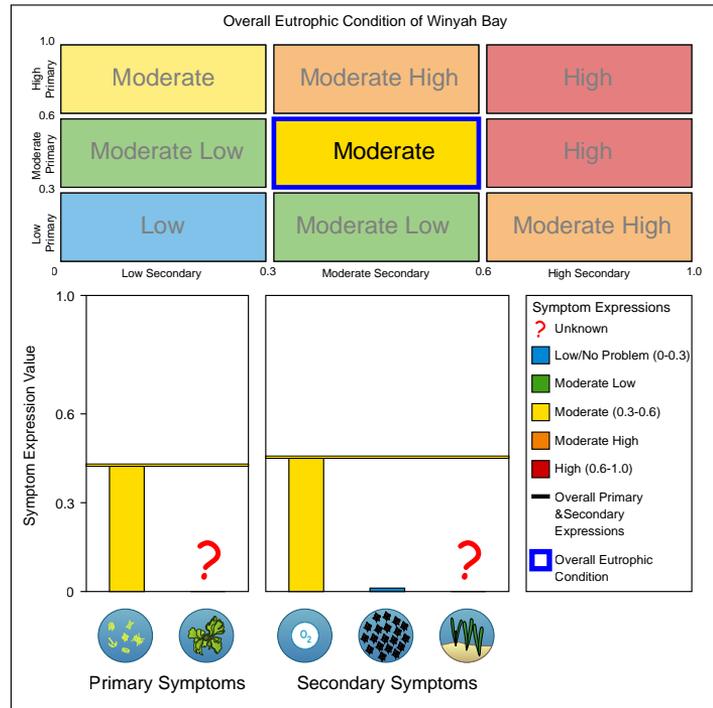
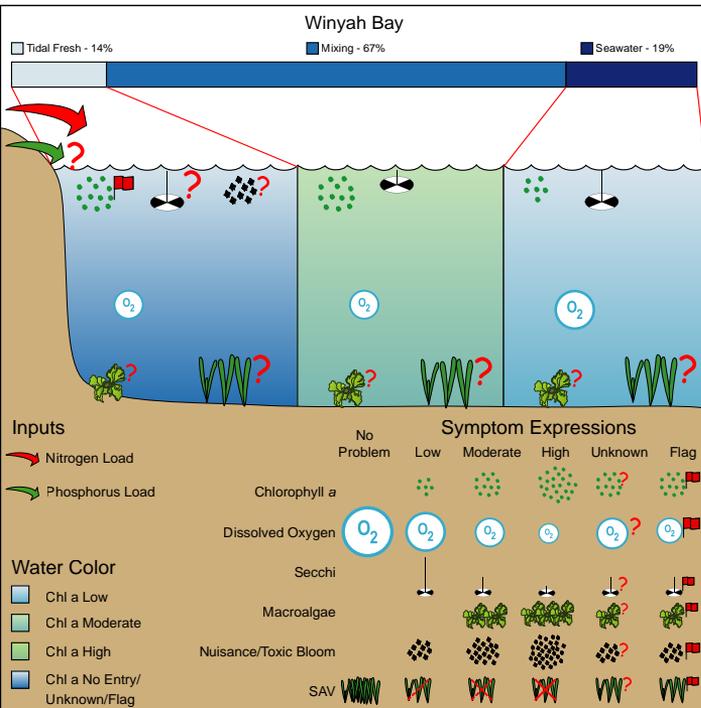
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km ²)	89	Urban (km ²)	2,546 (5.5%)	Area (km ²)	46,959
Tidal fresh zone area (km ²)	12	Agriculture (km ²)	16,576 (35.6%)	Mean elevation (m)	131
Mixing zone area (km ²)	60	Forest (km ²)	22,815 (48.9%)	Max. elevation (m)	1,233
Saltwater zone area (km ²)	17	Wetland (km ²)	4,652 (10%)	Watershed: estuary ratio	527.6
Volume (1,000 x m ³)	449,450	Range (km ²)	21 (0%)	TSS (tonne y ⁻¹)	117,000
Depth (m)	5.05	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	37,800,000
Tide Height (m)	0.85	Total (km ²)	46,609 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	7	Population	2,036,872	TSS/est. area (tonne km ⁻² y ⁻¹)	1,315
		Popn: est. area ratio	22,886	DIN/est. area (kg km ⁻² y ⁻¹)	424,719
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown