

Pamlico Sound

SUMMARY

Most water body condition parameters for Pamlico Sound are unknown for 2004. The estuary experiences occasional *Karenia brevis* blooms from Florida are transported in by the Gulf Stream. Rapid development without sewage treatment expansion is expected to increase nutrient loads to the area.

Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions *

An Unknown Overall Eutrophic Condition expression will occur if either the Primary or Secondary overall symptom expression is Unknown.



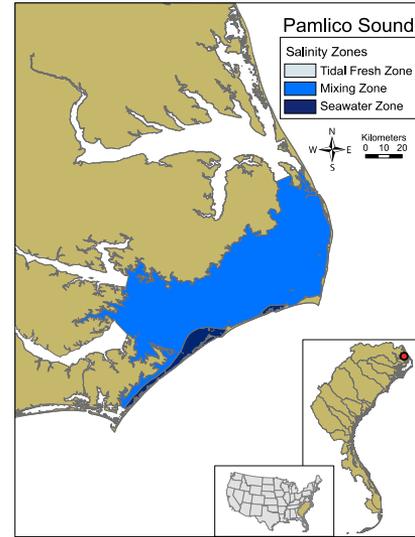
Future Outlook

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

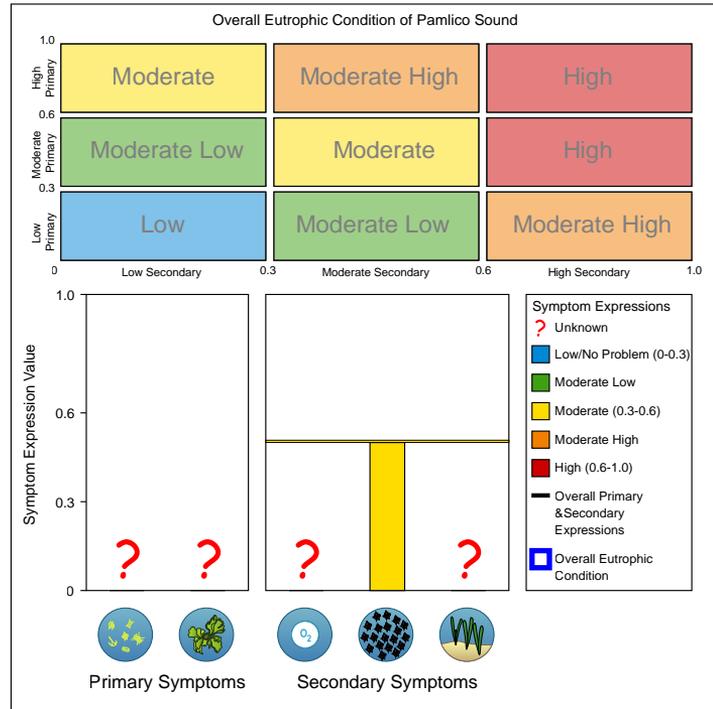
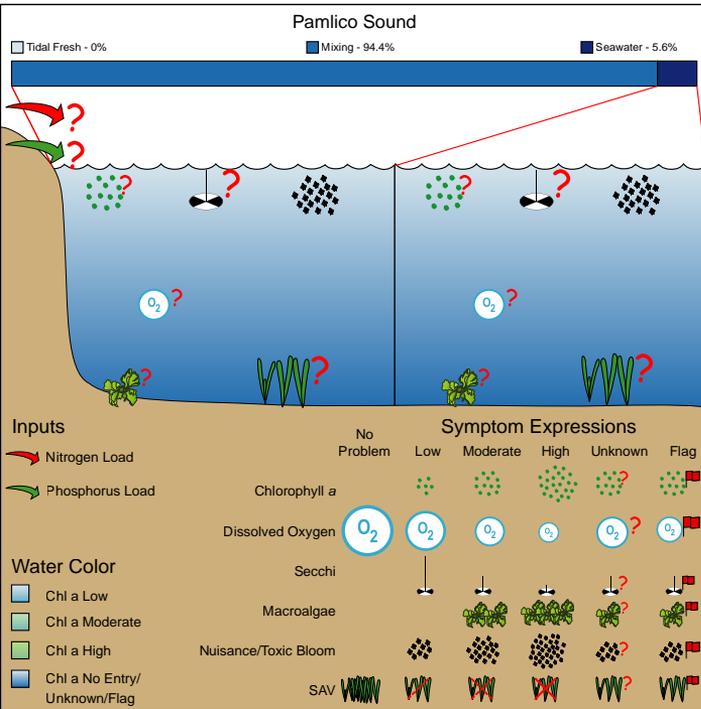


ASSETS Rating

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



EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km ²)	4,680	Urban (km ²)	1,937 (7.4%)	Area (km ²)	2,045
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	9,373 (35.6%)	Mean elevation (m)	1
Mixing zone area (km ²)	4,418	Forest (km ²)	11,935 (45.3%)	Max. elevation (m)	12
Saltwater zone area (km ²)	262	Wetland (km ²)	3,080 (11.7%)	Watershed: estuary ratio	0.4
Volume (1,000 x m ³)	13,712,400	Range (km ²)	31 (0.1%)	TSS (tonne y ⁻¹)	18,000
Depth (m)	2.93	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	0.36	Total (km ²)	26,356 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	34	Population	8,255	TSS/est. area (tonne km ⁻² y ⁻¹)	4
		Popn: est. area ratio	2	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown