

Breton/Chandeleur Sound

SUMMARY

Limited data were available to assess the eutrophic condition of Breton/Chandeleur Sound. However, in the mixing zone (51% of the Bay's area) chlorophyll-a symptom expression is high and nuisance/toxic bloom symptoms are low (episodic occurrence of variable duration). Symptom expressions for other indicators in 2004 are unknown.

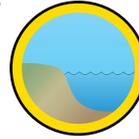
Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions *

Primary symptoms high but problems with more serious secondary symptoms still not being expressed.



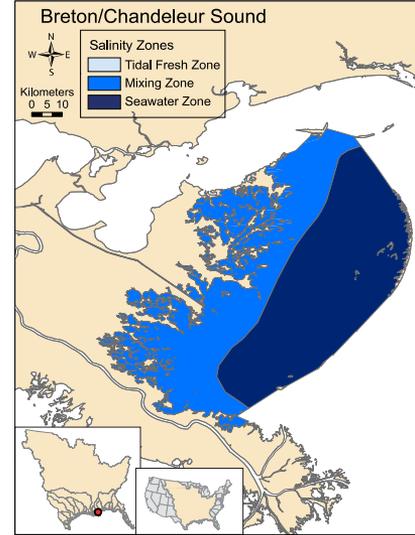
Future Outlook

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

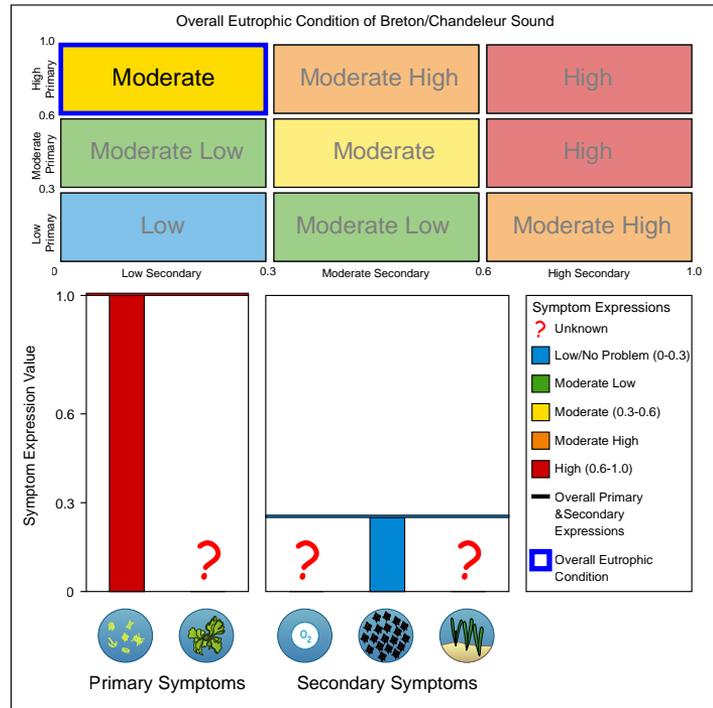
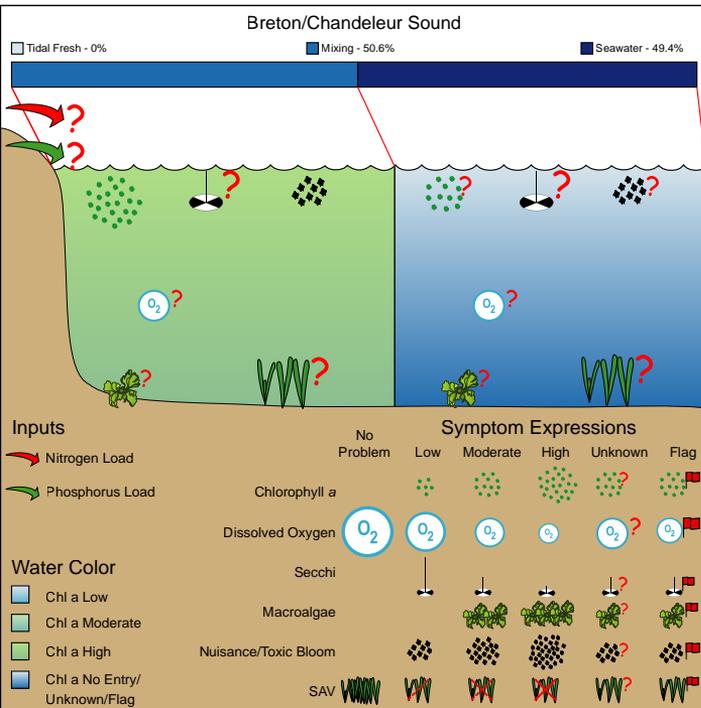
Bad

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EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary	Landuse / Population		Watershed Details / Input Loads		
Area (km ²)	4,301	Urban (km ²)	98 (6%)	Area (km ²)	2,150
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	18 (1.1%)	Mean elevation (m)	0
Mixing zone area (km ²)	2,176	Forest (km ²)	36 (2.2%)	Max. elevation (m)	6
Saltwater zone area (km ²)	2,125	Wetland (km ²)	1,489 (90.7%)	Watershed: estuary ratio	0.5
Volume (1,000 x m ³)	11,741,730	Range (km ²)	0 (0%)	TSS (tonne y ⁻¹)	23,200
Depth (m)	2.73	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	0.41	Total (km ²)	1,642 (0%)	TP (kg y ⁻¹)	Unknown
Residence Time (d)	44	Population	50,456	TSS/est. area (tonne km ⁻² y ⁻¹)	5
		Popn: est. area ratio	12	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				TP/est. area (kg km ⁻² y ⁻¹)	Unknown