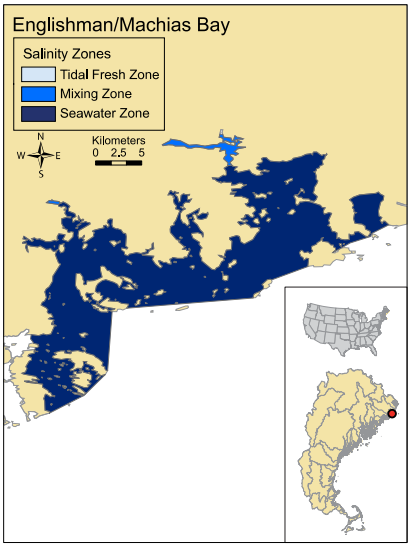
Englishman/Machias Bay

SUMMARY

No data were available to assess the eutrophic condition of Englishman/ Machias Bay. In the 1999 assessment, it was characterized by moderate symptom expressions of chlorophyll-a and nuisance/toxic blooms, high macroalgal abundance, and healthy dissolved oxygen levels. Coastal upwelling was suggested as a significant nutrient source.



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

An Unknown Future Outlook expression will occur if the Expected Changes In Nutrient Load by 2020 is Unknown.

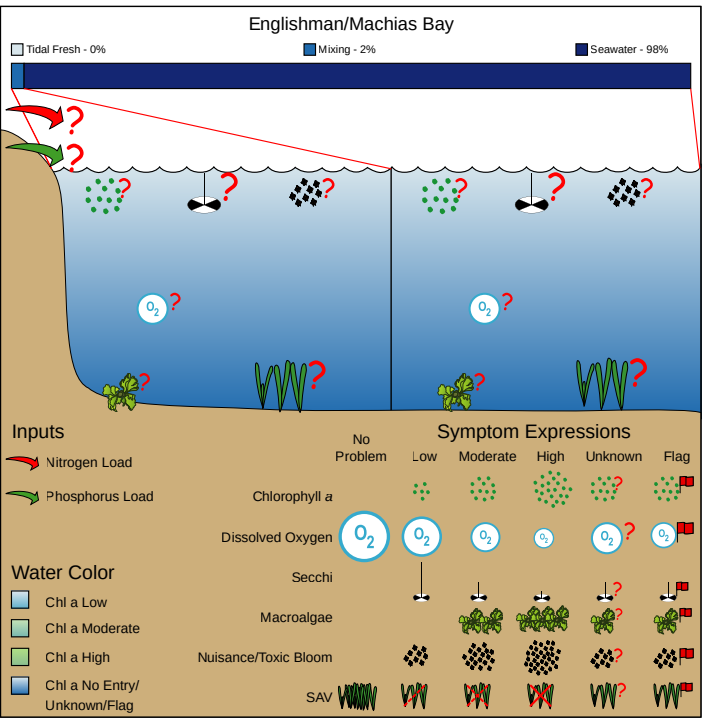
ASSETS Rating

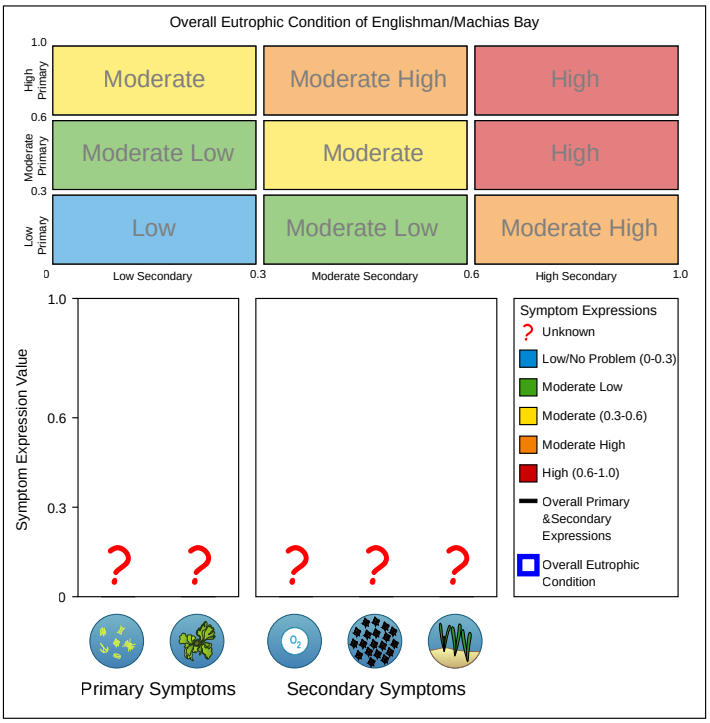
Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.

Influence/eutro/future	Unknown	Low	Mod Low	Moderate	Mod High	High
ASSETS	Unknown	High	Good	Moderate	Poor	Bad

Reliability and Confidence			
? Unknown	* Low	** Moderate	*** High

EUTROPHIC CONDITION





WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km^2)	225	Urban (km^2)	23 (1%)	Area (km^2)	2,445
Tidal fresh zone area (km^2)	0	Agriculture (km^2)	96 (4.2%)	Mean elevation (m)	73
Mixing zone area (km^2)	5	Forest (km^2)	1,927 (83.9%)	Max. elevation (m)	299
Saltwater zone area (km^2)	221	Wetland (km^2)	225 (9.8%)	Watershed: estuary ratio	10.9
Volume (1,000 x m^3)	2,574,000	Range (km^2)	26 (1.1%)	TSS (tonne y^{-1})	30,200
Depth (m)	11.44	Barren (km^2)	0 (0%)	DIN (kg y^{-1})	Unknown
Tide Height (m)	3.75	Total (km^2)	2,297 (0%)	DIP (kg y^{-1})	Unknown
Residence Time (d)	5	Population	7,386	TSS/est. area (tonne km^{-2} y^{-1})	134
		Popn: est. area ratio	33	DIN/est. area (kg km^{-2} y^{-1})	Unknown
				DIP/est. area (kg km^{-2} y^{-1})	Unknown