

Tampa Bay

SUMMARY

Tampa Bay is characterized by a high chlorophyll-a symptom expression and moderate expression of macroalgae, dissolved oxygen and harmful/toxic algae blooms. Chlorophyll-a concentrations have either decreased or remained stable in the majority of the Bay between 1990 and 2004. A small increase in SAV acreage occurred during this period.

Influencing Factors

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



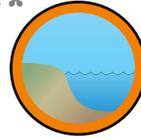
Future Outlook

Nutrient related symptoms observed in the estuary will most likely stay the same.



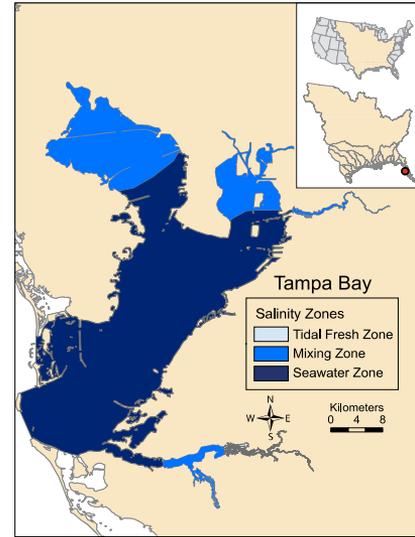
Eutrophic Conditions **

Primary symptoms high and substantial secondary symptoms becoming more expressed, indicating potentially serious problems.



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

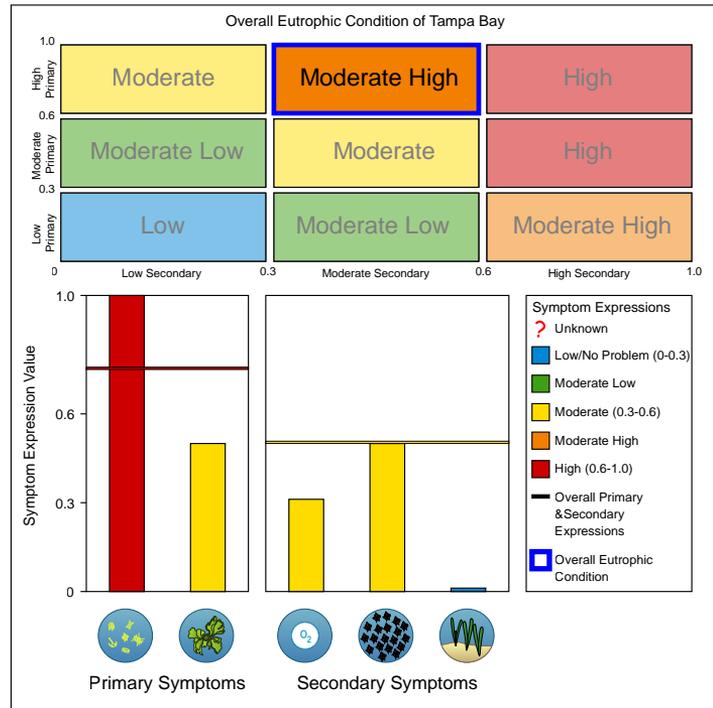
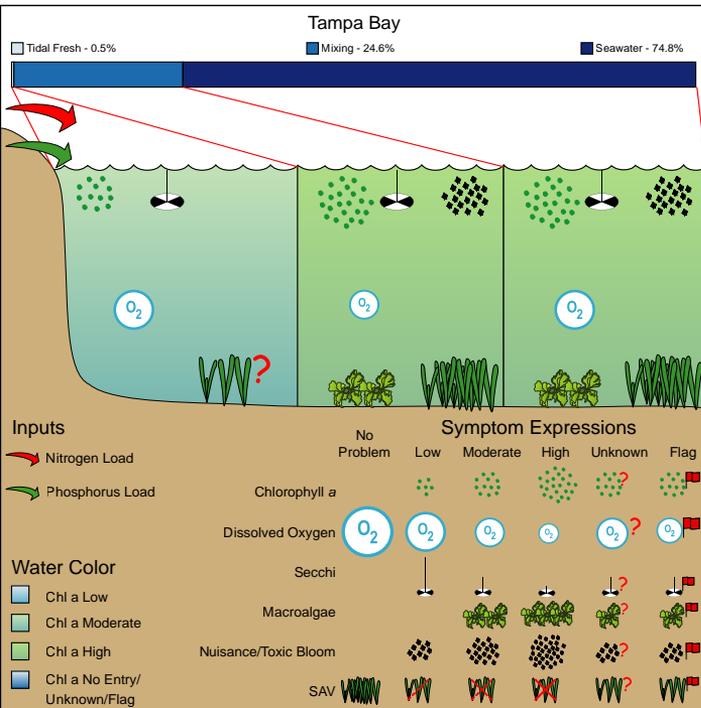
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

| Estuary | Landuse / Population | | Watershed Details / Input Loads | | |
|--|----------------------|--------------------------------|---------------------------------|---|-----------|
| Area (km ²) | 902 | Urban (km ²) | 1,777 (31.8%) | Area (km ²) | 5,703 |
| Tidal fresh zone area (km ²) | 5 | Agriculture (km ²) | 1,911 (34.2%) | Mean elevation (m) | 22 |
| Mixing zone area (km ²) | 222 | Forest (km ²) | 259 (4.6%) | Max. elevation (m) | 76 |
| Saltwater zone area (km ²) | 675 | Wetland (km ²) | 515 (9.2%) | Watershed: estuary ratio | 6.3 |
| Volume (1,000 x m ³) | 2,706,000 | Range (km ²) | 1,119 (20%) | TSS (tonne y ⁻¹) | 139,000 |
| Depth (m) | 3.00 | Barren (km ²) | 0 (0%) | TN (kg y ⁻¹) | 3,745,765 |
| Tide Height (m) | 0.72 | Total (km ²) | 5,581 (0%) | TP (kg y ⁻¹) | 1,436,980 |
| Residence Time (d) | 9 | Population | 1,308,800 | TSS/est. area (tonne km ⁻² y ⁻¹) | 154 |
| | | Popn: est. area ratio | 1,451 | TN/est. area (kg km ⁻² y ⁻¹) | 4,153 |
| | | | | TP/est. area (kg km ⁻² y ⁻¹) | 1,593 |