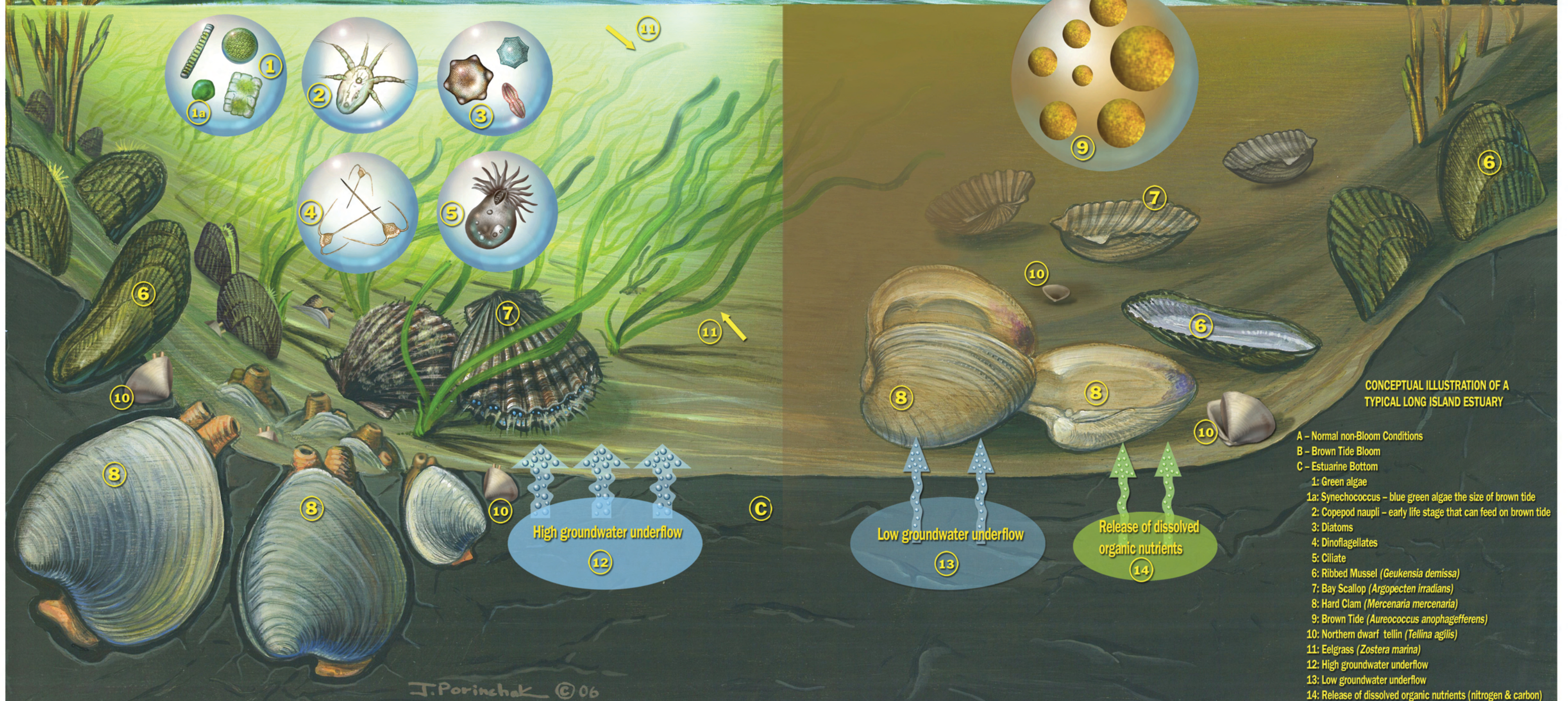


Typical Long Island Estuary

A Normal non-Bloom Conditions

B Brown Tide Bloom



CONCEPTUAL ILLUSTRATION OF A TYPICAL LONG ISLAND ESTUARY

- A - Normal non-Bloom Conditions
- B - Brown Tide Bloom
- C - Estuarine Bottom
- 1: Green algae
- 1a: Synechococcus - blue green algae the size of brown tide
- 2: Copepod naupli - early life stage that can feed on brown tide
- 3: Diatoms
- 4: Dinoflagellates
- 5: Ciliate
- 6: Ribbed Mussel (*Geukensia demissa*)
- 7: Bay Scallop (*Argopecten irradians*)
- 8: Hard Clam (*Mercenaria mercenaria*)
- 9: Brown Tide (*Aureococcus anophagefferens*)
- 10: Northern dwarf tellin (*Tellina agilis*)
- 11: Eelgrass (*Zostera marina*)
- 12: High groundwater underflow
- 13: Low groundwater underflow
- 14: Release of dissolved organic nutrients (nitrogen & carbon)

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