

Explaining river plume salinity differences in the Passagassawakeag river plume in Belfast, Maine using salinity anomalies, tidal events, discharge data, and wind data.

The implications of temperature and salinity changes in a water column not only have local effects but large scale environmental impacts. These changes can be observed in the Passagassawakeag river plume. Conductivity, temperature and depth data were used to identify the river plume. Salinity anomalies, tidal events, discharge data, and wind data were used to explain the variation in salinity levels in the river plume. Tidal events play a major role in the location of varying salinities of the river plume. Patterns displayed within similar tidal events are found regardless of location along the transect.

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