

Appendix B

Updated Palkovacs *et al.* alewife stock complexes

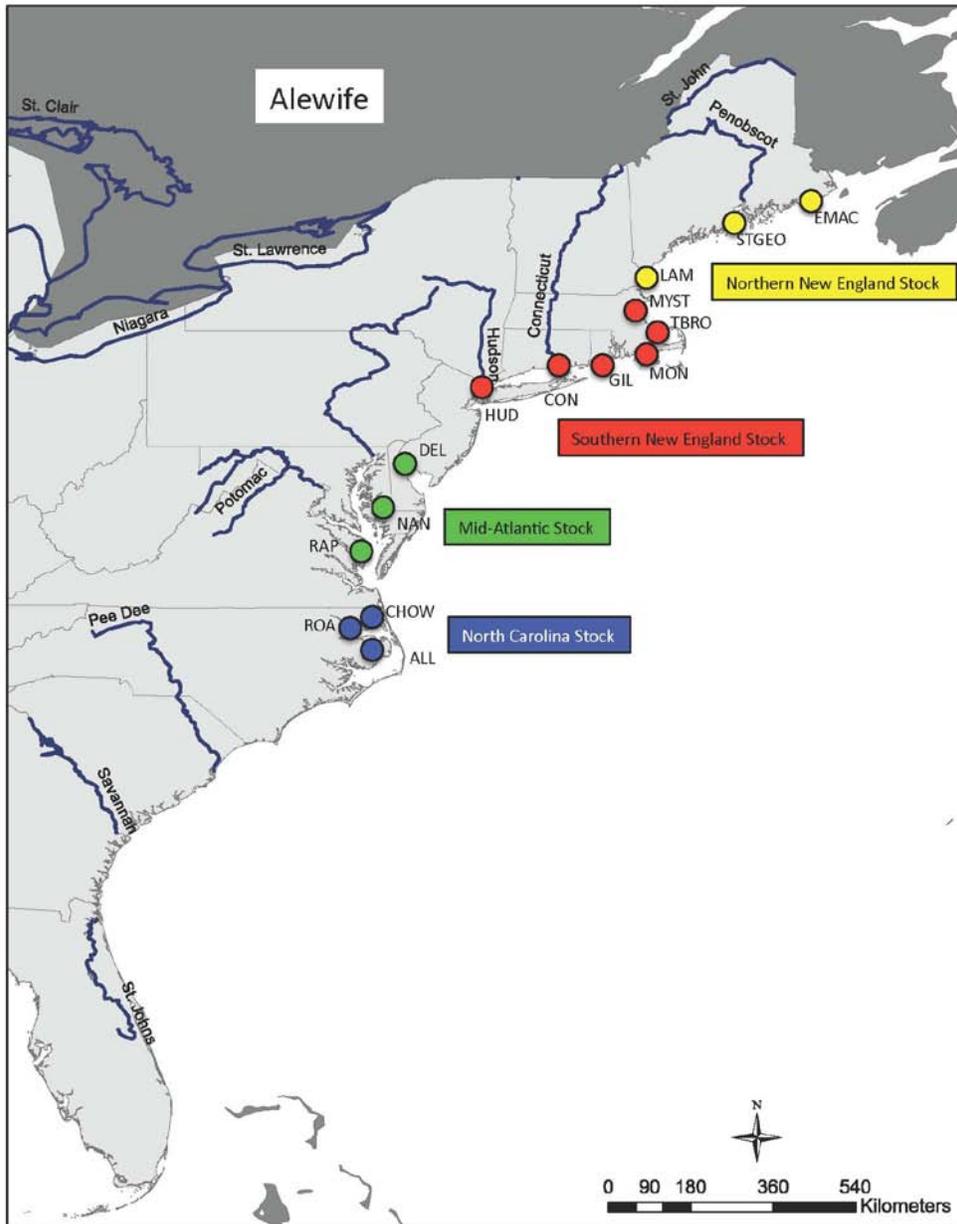


Figure 1. Updated stock complex boundaries for alewives based Palkovacs *et al.*, unpublished data, received on 08/13/12. Additional analyses were run on the alewife dataset to examine the uniqueness of the (tentatively) designated Connecticut River alewife stock. Hybrids and misidentified samples were found and subsequently removed for this analysis. By removing these samples from the Connecticut River alewife dataset, Palkovacs *et al.* found that for alewife, the Connecticut and Hudson Rivers belong to the Southern New England stock.

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Alewives- Updated on 08/13/12

- **Hypothesis 1:**
 - One continuous stock complex throughout the entire range from US to Canada
- **Hypothesis 2:**
 - Five stock complexes
 - Carolina (all alewife rivers south of, and including the Chowan River)
 - Mid-Atlantic (all Virginia waters up to, and including New Jersey waters)
 - Southern New England (all New York waters up to, and including Massachusetts waters)
 - Northern New England (Lamprey up to and including the St. Croix River)
 - Canada (all Canadian Rivers)

Figure 2. Updated Alewife hypotheses based on the analyses received from Palkovacs *et al.* on 08/13/12. This new information groups the Hudson and Connecticut Rivers with the Southern Atlantic stock and reduces the number of stock complexes from six to five.