

Perspectives on geohistorical data in oyster restoration

Geohistorical Perspective Survey

****IMPORTANT**** There is no save feature, so please be prepared to take the entire survey in one sitting. Thank you for your participation!

Background definitions:

- **Death assemblage** - The taxonomically identifiable, dead or discarded organic remains encountered in a landscape or seabed.
- **Geohistorical records** - The sediment and fossil or death assemblages that provide temporal, environmental, and ecological information.
- **Conservation paleobiology** - The application of theories and analytical tools of paleontology to biodiversity conservation.
- **Baselines** - Reference conditions against which current changes can be assessed.

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Research background

1. Please indicate your primary oyster species of interest:

- Crassostrea virginica
- Crassostrea gigas
- Ostrea conchaphila
- Ostrea lurida
- Other:

2. If you work in the United States, which state(s) does your work primarily affect?

3. If you work outside the United States, which country does your work primarily affect?

4. How many years of experience do you have in your field?

- < 5 years
- 5 - 10 years
- 10 - 15 years
- 15 - 20 years
- 20 - 25 years
- > 25 years

5. Please list at least three sources that you read and/or publish in for your oyster work. (Please name specific scientific journal titles, government documents, technical reports, conference proceedings, etc.):

6. Please provide a brief description of your work as it relates to oyster restoration (e.g. research, constructing living shorelines, disease prevention, depositing cultch, etc).

(1 paragraph max.)

7. How do you define success for an oyster restoration project? In other words, what goal(s) must be accomplished before restoration is considered complete?

(1 paragraph max.)

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Perspectives on geohistorical data

The questions in this section focus on perspectives on geohistorical data in the oyster restoration and research fields.

8. Lotze et al. (2006) use the following cultural periods to examine changing human impacts on estuaries and coastal seas through time. Which of the following best defines the timeframe of the baseline conditions used in your restoration work?

Check all that apply. Dates are approximate ranges based on Chesapeake Bay, MD, USA (from Lotze et al. 2006).

- Baselines don't apply to my work
- Global market 2 (1950AD - Present)
- Global market 1 (1900AD - 1950AD)
- Market-colonial development (1700AD - 1900AD)
- Market-colonial establishment (1600AD - 1700AD)
- Agricultural (1200AD - 1600AD)
- Hunter-gatherer (8000 BC - 1200 AD)
- Prehuman (Before 8000 BC)

9a. How informative do you think geohistorical data are for conservation/restoration practice?

Please select one.

- Very informative
- Sometimes informative
- Not informative
- Unsure
- Other:

9b. Please comment on your answer to 9a: why are or why aren't geohistorical data informative for conservation/restoration practice in your opinion?

10a. Do you know of any successful applications of geohistorical data in oyster restoration?

- Yes
 No

10b. If your answer was 'Yes' to Question 10a, please briefly describe the success story.

If possible, please provide a citation.

11a. The NOAA Fisheries Office of Habitat Conservation defines the following Universal Metrics (UM), Universal Environmental Variables (UEV), and Restoration Variables (RV) as important to track for oyster restoration. In your opinion, which of these values can be accurately assessed in the past using geohistorical data?

Please check all that apply.

- Reef areal dimension (UM)
 Reef height (UM)
 Oyster density (UM)
 Oyster size-frequency distribution (UM)
 Water temperature (UEV)
 Salinity (UEV)
 Dissolved oxygen (UEV)
 Disease and pathogens (RV)
 Predation and competition (RV)
 Oyster reproductive status (RV)
 None
 Unsure

11b. How would you use these geohistorical data if you had them?

(1 paragraph max.)

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Demographic Information

12. Please select the race/ethnicity with which you identify:

- Asian
 Black
 Hispanic
 White
 Other:

13. Please select your sex:

- Male
 Female

14. Select the option below that best describes your highest level of education:

- High school diploma
 Bachelor's degree
 Master's degree
 Doctorate
 Other:

15. Select the option(s) below that best describe(s) your job type:

Please select all that apply.

- Fisheries/resource manager
 Researcher
 Policy developer
 Other:

16. Select the option(s) below that best describe(s) your workplace:

Please select all that apply

- Government
 Nongovernmental Organization

- University/Academia
- Museum
- Environmental consulting
- Industry
- Other:

17. Please enter an email address at which you can be reached if you would like to receive the results of this survey. Email addresses provided here will not be distributed.

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