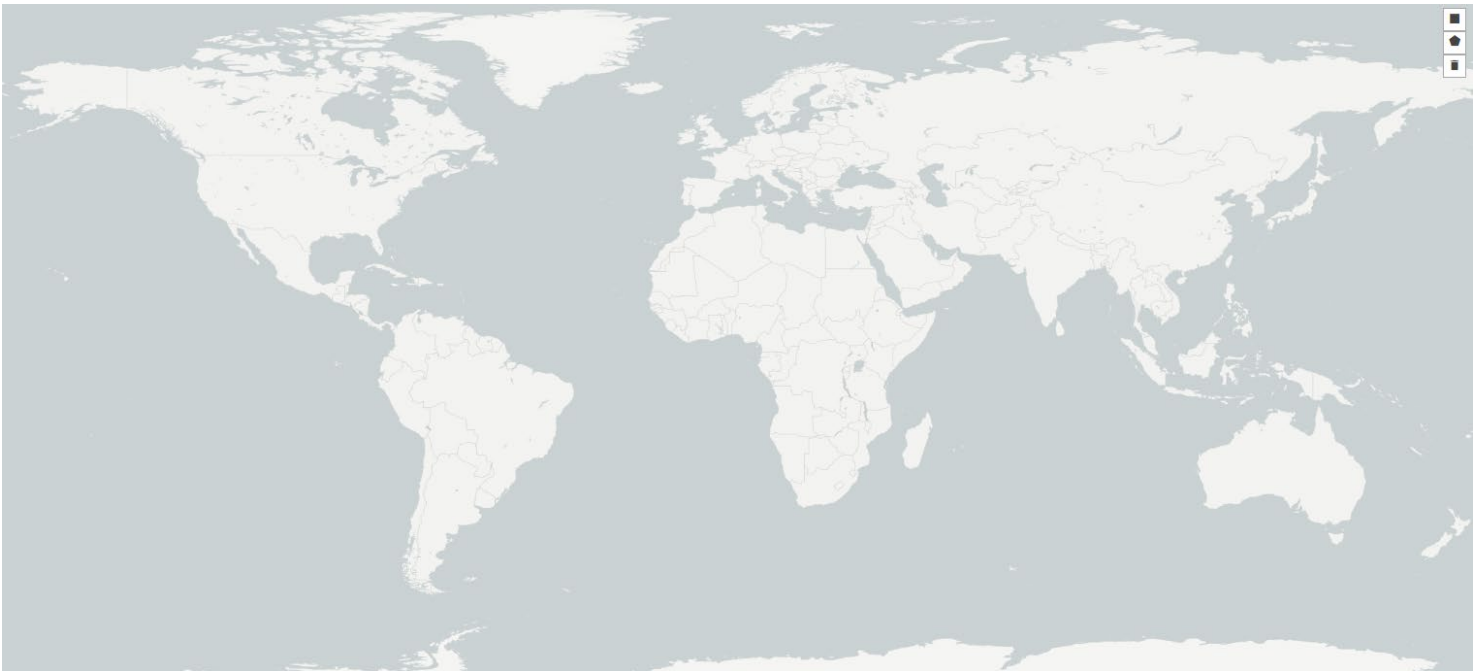


Invasive Shrimp: No Small Matter

Global Biodiversity Information Facility (GBIF) Species Search Instructions:

1. Open the GBIF website: gbif.org
 2. Above the search bar on the first page, click "Occurrences."
 3. In the left sidebar menu, click on "Scientific Name" and enter *Palaemon macrodactylus* in the search box. Click on the green box showing "*Palaemon macrodactylus* M.J. Rathbun, 1902." A full taxonomic breakdown should appear. Looking at the right-hand side of the page, you will see a list of all the reported occurrences of our target species.
 4. Go to the top of that table and click on "Map."
 5. Once the map appears, select "Year" in the left sidebar and adjust the right hand circle from the current year all the way back to 1900.
 6. Note where the species was documented in 1900, then slowly adjust the year until you notice the species appearing in other locations around the globe. Each time the species appears in a new location, mark the year on your map below.
-



Using the map marked with locations and years, answer the following questions:

1. Where was *Palaemon macrodactylus* found in 1900?
2. What year did it first appear on the West Coast of the United States?
3. What year did it first appear on the East Coast of the United States?
4. What year did it first appear in the Chesapeake Bay?
5. How do you think this species was able to travel to these new locations?