



Teacher Guide—Life Science Module Final Assessment

- Provide a list of NERR sites to students with their home Internet address. Find the list on page two of this Final Assessment document.
- Break your students into small groups and either assign each group a NERR site or have them select their own to investigate.
- Student groups should select three endangered or threatened species in their chosen estuary to study.
- Students focus on one monitoring station within their estuary.
- Direct students to (<http://estuaries.noaa.gov/ScienceData/Graphing.aspx>) where they can download their NERR's abiotic parameter data for the most recent complete year available.
- Students produce a PowerPoint, poster, or other presentation outlining the following items:
 - a. What research studies focusing on endangered or threatened species in your NERR have been completed or are underway? What are the results of these studies?
 - b. Display your data graphs and discuss the water quality in your estuary.
 - c. Have hypoxic or anoxic conditions occurred in your estuary during the year? Can you determine the cause of the hypoxia or anoxia (natural cause, human activity cause)?
 - d. Are populations of your three chosen species increasing, decreasing or stable?
- e. Name some interventions that you think could increase the number of each of your chosen species in your estuary.
- f. How does a decreasing population of each of your species affect other plant and animal species in your estuary?
- Grade student presentations for clarity, presentation style, and depth of research and analysis.



State	National Estuarine Research Reserve	Website (URL)
Alabama	Weeks Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=WKB
Alaska	Kachemak Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=KBA
California	Elkhorn Slough NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=ELK
California	San Francisco Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=SFB
California	Tijuana River NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=TJR
Delaware	Delaware NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=DEL
Florida	Apalachicola NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=APA
Florida	Guana Tolomato Matanzas NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=GTM
Florida	Rookery Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=RKB
Georgia	Sapelo Island NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=SAP
Maine	Wells NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=WEL
Maryland	Chesapeake Bay MD NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=CBM
Massachusetts	Waquoit Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=WQB
Mississippi	Grand Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=GRD
New Hampshire	Great Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=GRB
New Jersey	Jacques Cousteau NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=JCQ
New York	Hudson River NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=HUD
North Carolina	North Carolina NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=NOC
Ohio	Old Woman Creek NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=OWC
Oregon	South Slough NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=SOS
Puerto Rico	Jobos Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=JOB
Rhode Island	Narragansett Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=NAR
South Carolina	ACE Basin NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=ACE
South Carolina	North Inlet-Winyah Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=NIW
Texas	Mission-Aransas NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=MAR
Virginia	Chesapeake Bay VA NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=CBV
Washington	Padilla Bay NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=PDB
Wisconsin	Lake Superior NERR	http://www.nerrs.noaa.gov/Reserve.aspx?ResID=LKS