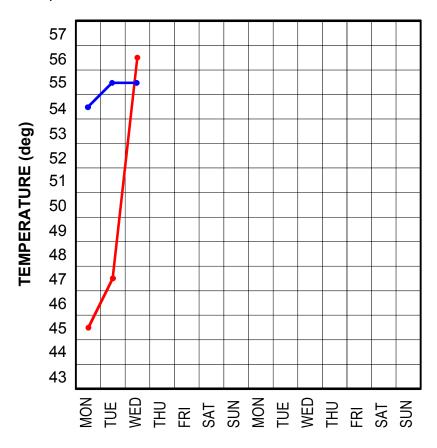


Graph your data on a graph like the one below. Fill in the temperature on the y (vertical) axis. Write the days on the x-axis like in the graph below. Start your temperatures about two degrees below your lowest reading Fill in the dates of your observations. You will need to use two different color pens or pencils (one for air temperatures, and one for water temperatures).



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2.	Who else might benefit from the information collected by these buoys?
3.	Based on data you collected about the site near where you live or have visited, what do you think the air temperature will be for
Th	e rest of the week?
Th	e rest of the month?
Th	ree months from now?
	If you have completed the El Nino site, what effect has El Nino



- 1. What effect has El Nino had on the area where you live?
- 2. Based on what you have learned about moored buoys in the ocean, design a buoy to collect data in outer space. Give it a name, list the measurements it will collect, and draw a diagram of it.



- Click "Back" to return to the NOAA Research "Ocean Temperatures" main page, or choose "Ocean Temperatures" from your Bookmarks or Favorites.
- Click "Enrichment."

V. Enrichment Activities

A. Research



1. Find out what the highest and lowest air and water temperatures are for the area where you live.



- 2. Interview local weather people. Find out where they get the information they use to forecast the weather.
- 3. Find out what marine animals live in cold water and which ones live in warm water. Divide your list into mammals, fish, and invertebrates. List the location and temperature range for each organism.
- 4. Investigate the Inuit people (Eskimos), how they live in cold weather and depend on the sea to live. Research their food, shelter, and clothing and how each relates to the sea.
- 5. Investigate Polynesians and how they live in warm weather and depend on the sea to live. Research their food, shelter, and clothing and how each relates to the sea.

B. Data Collection

- 1. If you live near the coast, keep a record of the air and water temperatures for a period of time. You can get this information from your newspaper or from the sites you visited in this activity. Graph the data you collect using a line or bar graph.
- 2. Collect news articles or search the web for information on El Nino and how it has affected air and water temperatures. Write a short report explaining what you found out.
- 3. Interview someone who fishes commercially. Ask what species are caught in warm water and what species are caught when it is cold. Make a chart listing what is caught when. Also indicate the amounts that are caught, if possible.



B. Related Web Sites

- Interactive Marine Observations Tides, Maps, Weather and Wave Conditions. (To use this interactive interface, JavaScript needs to be enabled on your browser.) http://polar.wwb.noaa.gov/waves/main_int.html
- Coastal Marine Weather http://www.wrh.noaa.gov/Portland/marine.html
- 3. Buoy Locations, Information and Recent Data http://www.nodc.noaa.gov/BUOY/buoy.html
- 4. Graphs of Monthly Averages of Data Collected from Buoys http://www.ndbc.noaa.gov/climate.phtml
- 5. National Data Buoy Center Home Page http://www/ndbc.noaa.gov