



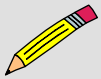
- Click "Back" to return to the NOAA Research "Hurricanes" main page, or choose "Hurricanes" from your Bookmarks or Favorites.
- Click "Application."

IV. Application



A. Applying Graphs

- Click on "The Most Intense Hurricanes in the US 1900-1996" site.



1. Using the graphs you made in *Gather Data*, determine the approximate maximum sustained wind speed of the following hurricanes. Give your answer in miles per hour, not knots.

- a. Camille (#2) = _____ miles per hour
- b. Donna (#6) = _____ miles per hour
- c. Opal (#16) = _____ miles per hour
- d. Allen (#18) = _____ miles per hour
- e. Connie (#59) = _____ miles per hour

2. Using the graphs you made in *Gather Data*, determine the approximate storm tide of the following hurricanes.

- a. Camille (#2) = _____ feet
- b. Donna (#6) = _____ feet
- c. Opal (#16) = _____ feet
- d. Allen (#18) = _____ feet
- e. Connie (#59) = _____ feet



3. What difference does the timing of the tide make on the damage done by a hurricane?

4. Describe the types of damage that would happen if a hurricane with an intensity of 3 on the Saffir-Simpson Scale hit where you live.



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

V. Enrichment Activities

A. Hurricane-Induced Building Considerations

1. Research the change in construction regulations in Florida due to the effects of Hurricane Andrew in 1992.
2. Brainstorm about the type of housing that would best weather a hurricane.

B. El Nino Effects on Hurricanes

- You can do this section only if you have completed the El Nino Activity.
- Read the following two questions before going to the sites so you know what to look for.

1. Explain the effect El Nino has on the Atlantic and Pacific hurricane seasons.
2. What effect on the number of hurricanes should El Nino have had in 1997 - 1998?

- Click on the "1997 storm tracks for the eastern Pacific" site (a severe El Nino year.)

- Click on the "1995 storm tracks for the eastern Pacific" (a non-El Nino year.)

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C. Extra Credit

1. Research the meaning of "Willie-Willie" in Australia.
2. Find out how hurricanes are named.



D. Related Web Sites

1. National Hurricane Center
<http://www.nhc.noaa.gov>
2. Hurricane and Natural Disasters Brochures
<http://www.aoml.noaa.gov/general/lib/hurricbro.html>
3. National Weather Service Hurricane page
<http://www.nws.noaa.gov/om/hurricane/index.shtml>
4. National Weather Service Hurricane Preparedness page
<http://www.nhc.noaa.gov/HAW2/english/intro.shtml>
5. Hurricane Research Division, Atlantic Oceanographic and Meteorological Laboratory
<http://www.aoml.noaa.gov/hrd/>
6. Hurricanes, Unleashing Nature's Fury
<http://www.nws.noaa.gov/om/brochures/hurrbro.htm>
7. NOAA's Hurricane Site
<http://hurricanes.noaa.gov/index.html>
8. Aircraft Operations Center
<http://www.aoc.noaa.gov>
9. Tropical Cyclones Introduction
<http://www.srh.weather.gov/jetstream/tropics/tc.htm>
10. National Climatic Data Center Hurricanes page
<http://lwf.ncdc.noaa.gov/oa/climate/severeweather/hurricanes.html>