



North Carolina GIS LIVE on GIS Day

GIS LIVE Virtual Exhibits Scavenger Hunt

Visit the exhibits and their web sites to find the answers to the following questions. Once you have the answers, see if you can find the hidden phrase to check if they are correct! The letters in each question spell out the phrase. Have fun exploring the world of GIS!

- 1) At Ligon GT Middle School, the teachers and students used GIS to study the school's history. What other science discipline did the students study? What is it?

- f) Dendrology
- g) Dendrochronology
- h) Archeology
- i) Botany
- j) Chemistry

Ligon GT Magnet Middle School

- 2) At North Carolina State University's College of Natural Resources, Center for Earth Observation, one of the GIS research projects on Spatial Modeling for Park and Recreation Planning and Management involves which topic?

- f) Erosion and runoff
- g) Planting trees
- h) Open space in the city
- i) Trails and greenways
- j) Vegetation analyses



- 3) The Town of Cary WebGIS online mapping shows contours, buildings, ETJs, and greenways as layers. Use the map to find which trail name is found in Cary (greenways layer of information).

- s) Swift creek trail
- t) Fox trail
- u) Raiter trail
- v) Kite trail
- w) White Oak trail



- 4) The North Carolina Zoo's conservation project called "Saving Africa's Vanishing Giants" the Elephants of Cameroon grew from an international concern for their survival due to increasing ivory prices which provoked unprecedented poaching during the 1970s. In little more than a decade, poachers killed more than half of Africa's elephants. The process of tracking elephants is a difficult task and scientists use radio collars and satellites to help them. Why are the scientists tracking the elephants?

- h) Short term monitoring
- i) Learn where the elephants live
- j) Find where the poachers are located
- k) Check on the elephants



- 5) Go to the North Carolina at online atlas at the Center for Health Statistics <http://www.schs.state.nc.us/SCHS/healthstats/healthatlas.html> and link to leading causes of death from 1994 – 1998. Where is the county with the highest leading cause of death as lung cancer located?

- o) Southwest
- p) South
- q) West
- r) East
- s) Northeast
- t) Southeast
- u) Northwest



- 6) At the North Carolina Department of Environment and Natural Resources, Division of Environmental Education, you can “discover your ecological address”. Be sure to locate the river basin you live in or the river basin where your favorite NC River is located. Can you find which river basin is the largest one in North Carolina? Which river basin in the LIST BELOW is the LARGEST?

- d) Lumber
- e) Neuse
- f) White Oak
- g) French Broad
- h) New



- 7) At Southwest Guilford High School, students are using CITYgreen to create an urban analysis of their campus. In project links, site statistics, what is the total area (rounded) of their campus? You can even see an aerial photograph of their school campus!

- s) 10 acres
- t) 15 acres
- u) 30 acres
- v) 25 acres
- w) 20 acres



- 8) At the North Carolina Museum of Natural Sciences, in Beyond the Museum, **NOAA Ocean Explorer: Islands in the Stream 2002**, the "Islands in the Gulf Stream" are made up of:

- b) large areas of floating “islands” of seaweed
- c) a large warm water current “stream”
- d) small patches of land where nobody lives
- e) deep water coral reefs and large hard bottom communities



- 9) At American Forests, you can calculate your effect on global warming using the Personal Climate Change calculator or find out about the National Urban Tree Deficit. What is the average tree cover recommendation for the United States?

- r) 40%
- s) 30%
- t) 35%
- u) 50%
- v) 20%



10) At North Carolina State University, the Department of Forestry, you can visit their Forests and Facilities. Go to Schenck Memorial Forest and take a virtual tour! Who is Carl A. Schenck? Read about him and the beginnings of Forestry in the United States. Which country is Carl Schenck from originally?

- v) France
- w) Canada
- x) Switzerland
- y) Germany
- z) Russia



11) North Carolina Center for Geographic Information Analysis (NCCGIA) has many online mapping opportunities for you! Go to NC MAPNET map viewer and see how you can investigate many places in North Carolina. Go to the NC flood mapping project at <http://www.ncfloodmaps.com/>. Click on digital flood and online flood mapping. Which county would you go to if you wanted to go to the beach?

- v) Duplin
- w) Dare
- x) Edgecombe
- y) Halifax
- z) Pitt



12) Go to Marine Grafics, which produces Estuary LIVE at www.estuarylive.org and find out about estuaries in America. What is an estuary?

- e) where water that is mostly fresh water becomes a part of a river
- f) where water that is mostly salty opens to the sea
- g) a place near the ocean where tides have NO effect
- h) where fresh river water and salty water mix



13) Terraserver.com is your window to the world. Go to <http://terraserver.homeadvisor.msn.com/> Type in your address and locate where you live. Now find the Grand Canyon in “famous places” and view the topo map. Which Indian Reservation is found here?

- e) Hualapai
- f) Navajo
- g) Hopi
- h) Nez Pearce



14) Wake County Planning Department has online mapping available for many different places. Go to Demographics, Census 2000 and then to the Census 2000 interactive map (under thematic maps). Which state in the United States has had the highest population change from 1990 to 2000?

- o) North Carolina
- p) Utah
- q) Georgia
- r) Nevada
- s) Arizona
- t) Tennessee



15) The NC Department of Public Instruction, Distance Learning, is co-hosting the GISLIVE celebration. You can be a part of these live presentations via the web using REAL Player and can call in or e-mail us questions on GIS Day, November 20, 2002. Try out your connection and your computer with this video of Leesville Middle School Students using GIS at their school! Go to http://video.dpi.state.nc.us/starschools/Assessment/Assessment_3.html, Program 3: Assessing Technology-Mediated, Problem/Project-Based. What is the name of the GIS project that these students are doing? For more information and details about this project go to www.ncsu.edu/scilink/studysite and join us for the GIS Team Challenge on November 20th!

- a) Tree Survey
- b) Study Site
- c) Urban Analysis
- d) School Mapping
- e) MOSS



Write the letter of the answers in order in the spaces below to spell a phrase and check your answers!
