



## Remote sensing data for use in problem-solving & research experiences

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Carolyn J. Merry  
Dept. of Civil & Environmental  
Engineering & Geodetic Science  
The Ohio State University



### Project paper – CE603 (Remote Sensing of the Environment)

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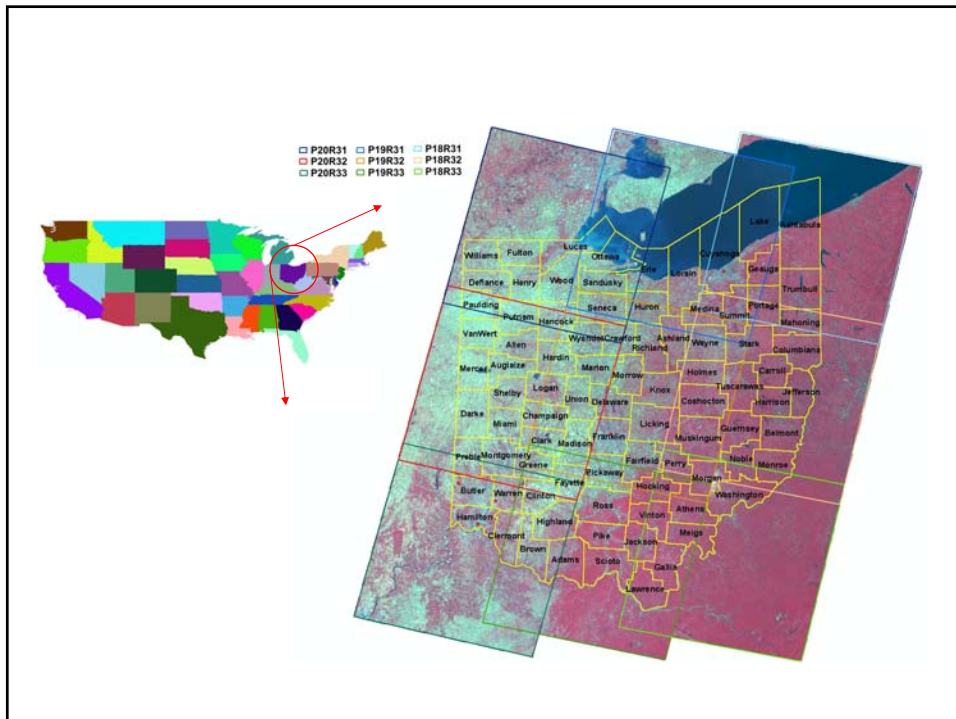
- Assign a project paper for the class
- Student has to address an open-ended problem – develop a creative solution using remote sensing techniques learned in class
- 2000 words – 6 page paper
- Archive of Landsat imagery, selected SPOT data, selected Ikonos imagery, & hi-res DOQQs for Ohio

OSU Campus – 27 March 2000



Ikonos 4-m

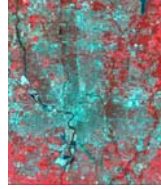
Landsat-7 ETM+ 30-m



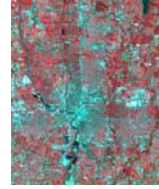
## Historical Archive



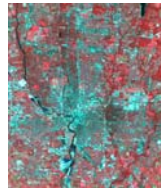
DISP, 1962



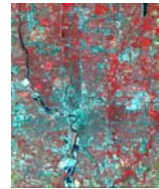
Landsat 5, 1984



Landsat 5, 1989



Landsat 5, 1994



Landsat 7, 1999



## Columbus city engineer

- Unimproved roads – had no idea of how many they had in the city of Columbus
- They described their problem, showed examples of what they meant by an unimproved road
- Provided their latest GIS files and latest DOQQs for the class
- Developed technique could save the city \$\$\$



## Students participated

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- Allowed them to work in teams of two
- 4 teams tackled the problem
- All did a reasonable job
- Gave the city engineer these 4 projects to review
- City engineer in process of evaluating the proposed techniques