



Life After College

How should I select my major?

What should I select as my major?

Will there be a job for me?

It's not the degree. . .



- It isn't the piece of paper that matters.
- There are easy routes to a degree that require little real learning.
- This approach produces little long term benefit.

. . . it's *the learning* that *matters!*

- Some degree programs require more.
- You learn more and ultimately benefit more from your efforts.



How do I Select a Major?

- take a variety of courses
- find what interests you
- research the job market
- assess your strengths and weaknesses



What do employers look for?

- good GPA (work habits + knowledge)
- good writing skills
- good oral skills
- experience - intern
- “hot skills”



Geology and Geography

- Career fields for the 21st century.
- You don't know any geologists or geographers?



Which of these people was trained as a geoscientist?



Colin E. Powell
General, U.S. Army, Retired
Former Secretary of State



Bruce Babbitt
Former Secretary of Interior



Harrison H. Schmitt
Apollo Astronaut
Former U.S. Senator (New Mexico)



Kathryn D. Sullivan
Former Astronaut

Which of these people was trained as a geoscientist?



Colin E. Powell
General, U.S. Army, Retired
Former Secretary of State
BA, Geology, City College of New York



Bruce Babbitt
Former Secretary of Interior
BA, Geology, Notre Dame



Harrison H. Schmitt
Apollo Astronaut
Former U.S. Senator (New Mexico)
BS, Geology, Caltech
PhD, Geology, Harvard



Kathryn D. Sullivan
Former Astronaut
BS, Earth Science, UC Santa Cruz
PhD, Geology, Dalhousie

Don't know much about
geography?

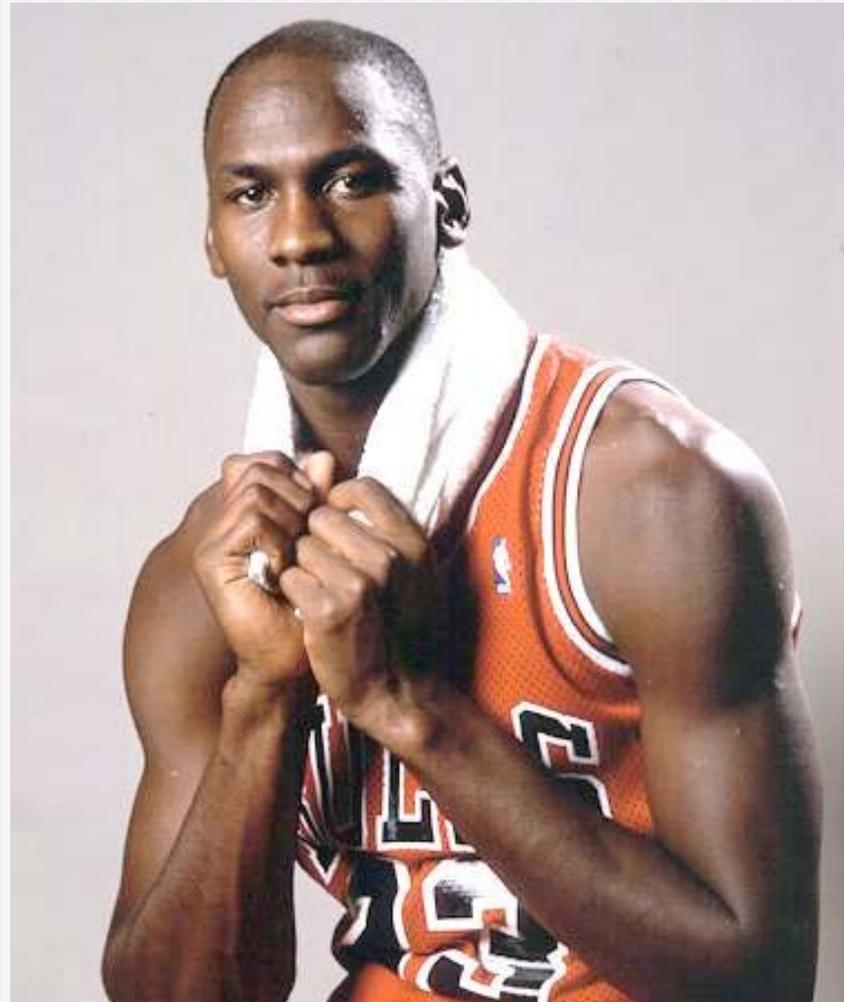


Don't know much about geography?

He does!

Michael Jordan

BA, Geography
University of North Carolina



Who employs geoscientists?

Engineering Companies



Who employs geoscientists?

Engineering Companies

Petroleum Industry



Who employs geoscientists?

Engineering Companies

Petroleum Industry

Government Agencies



Who employs geoscientists?

Engineering Companies

Petroleum Industry

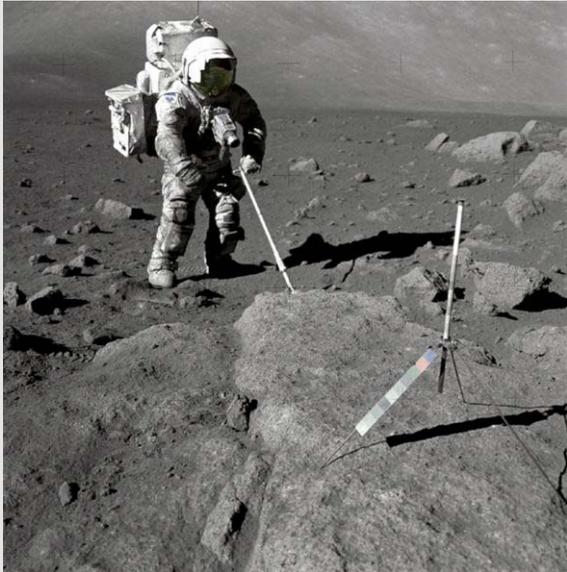
Government Agencies

Banks

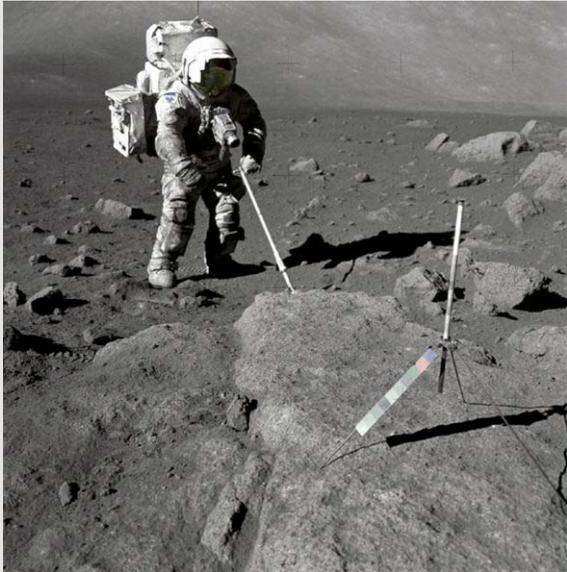
to name just a few



Which of these people is engaged in geological work?



Which of these people is engaged in geological work?



All
of
them



Nature of Geologist's Work

- Varied activities
 - Lab and office work
 - Work outdoors



Nature of Geoscience Work

- Travel
 - Domestic
 - Foreign



Nature of Geoscience Work

It's not just a major . . .



it's an
adventure!

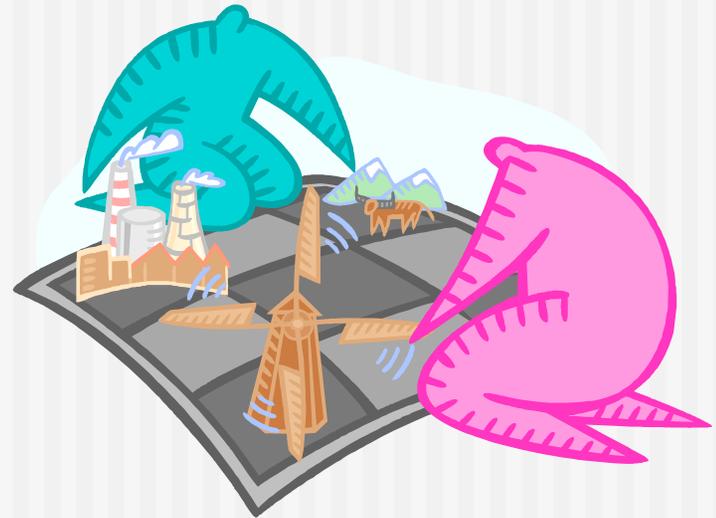
Geology and Geography

- Career fields for the 21st century.
- Why?



Reason 1 - Breadth of Knowledge

- Both fields involve a broad knowledge base.
 - ⇒ Average American changes careers 4-6 times.
 - ⇒ Our majors move more smoothly between careers.

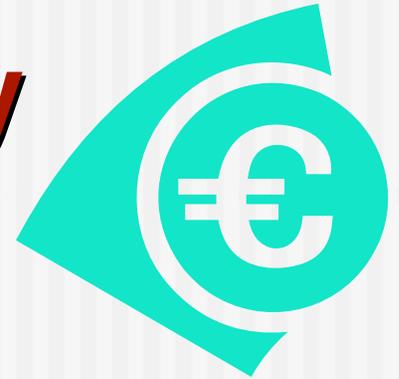


Geology Careers

- Geologists understand how the Earth operates, hence know how to find resources.



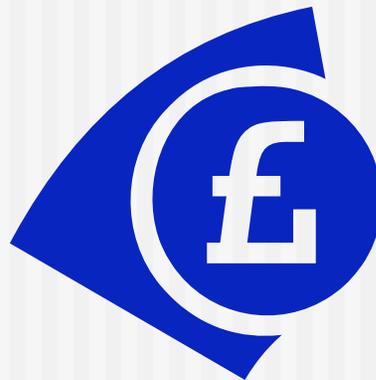
Reason 2 - Global Society



- Development of a GLOBAL economy.



⇒ Offers opportunities for those with a broad knowledge base.





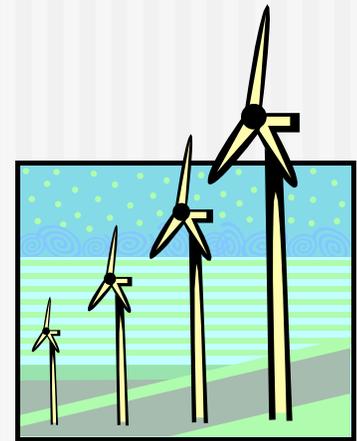
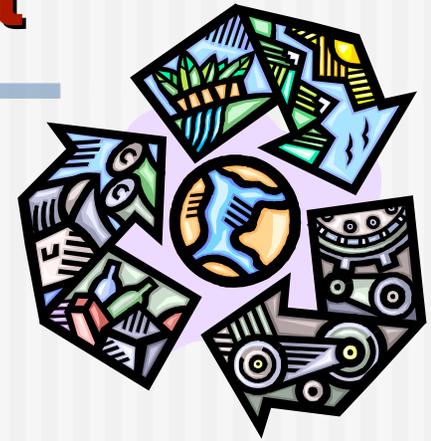
*Remember, in China
when you are one in
a million -- there are
1,300 other people
just like you.*

--Thomas Friedman
The World is Flat

Reason 3 - Environment

Geology and Geography study human-environment interactions.

- ⇒ Critical to human well-being.
- ⇒ Increases in importance as population increases.



Geology Careers

- Geologists study the interaction of humans and hazardous Earth processes.

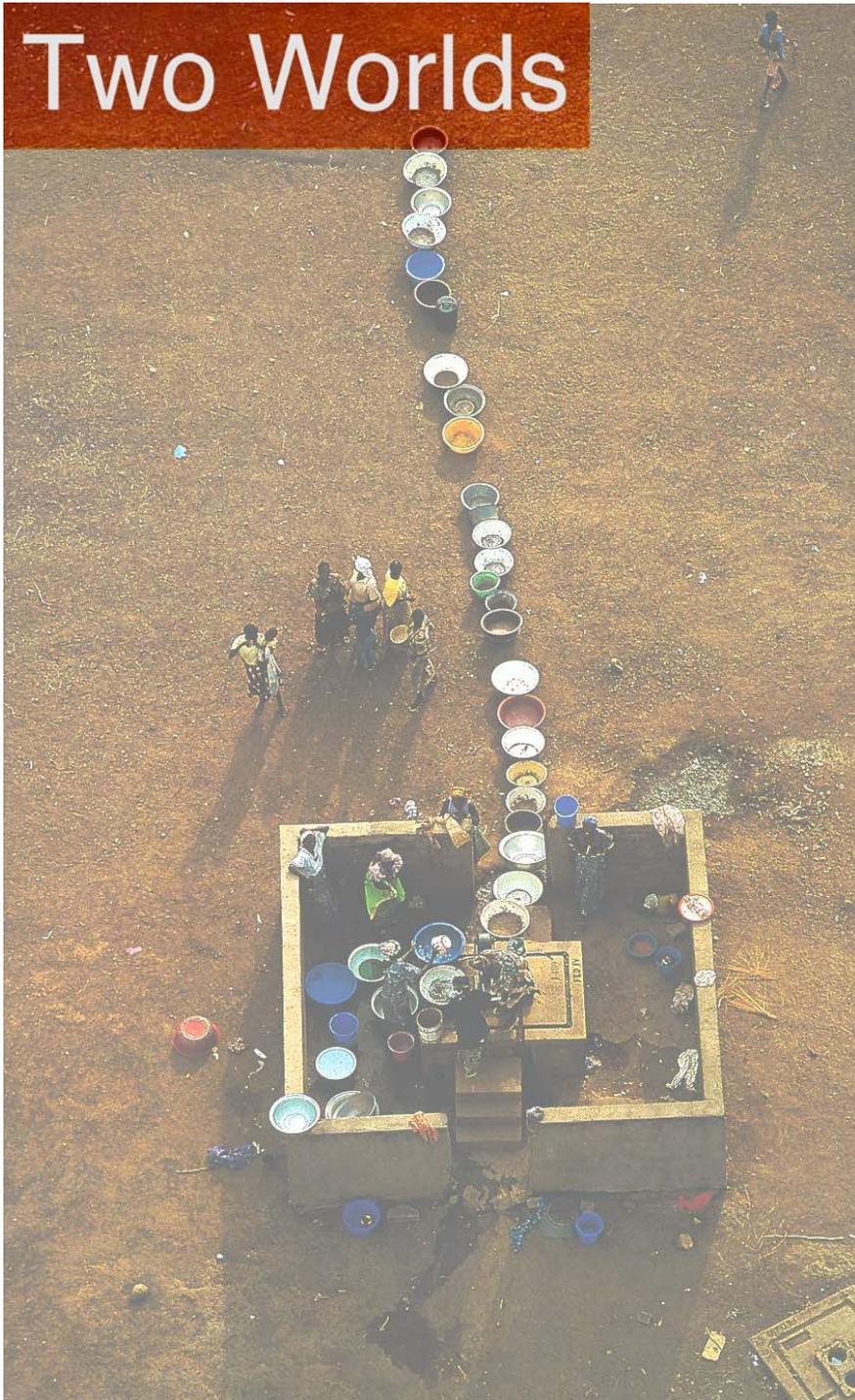


Reason 4 - Resources

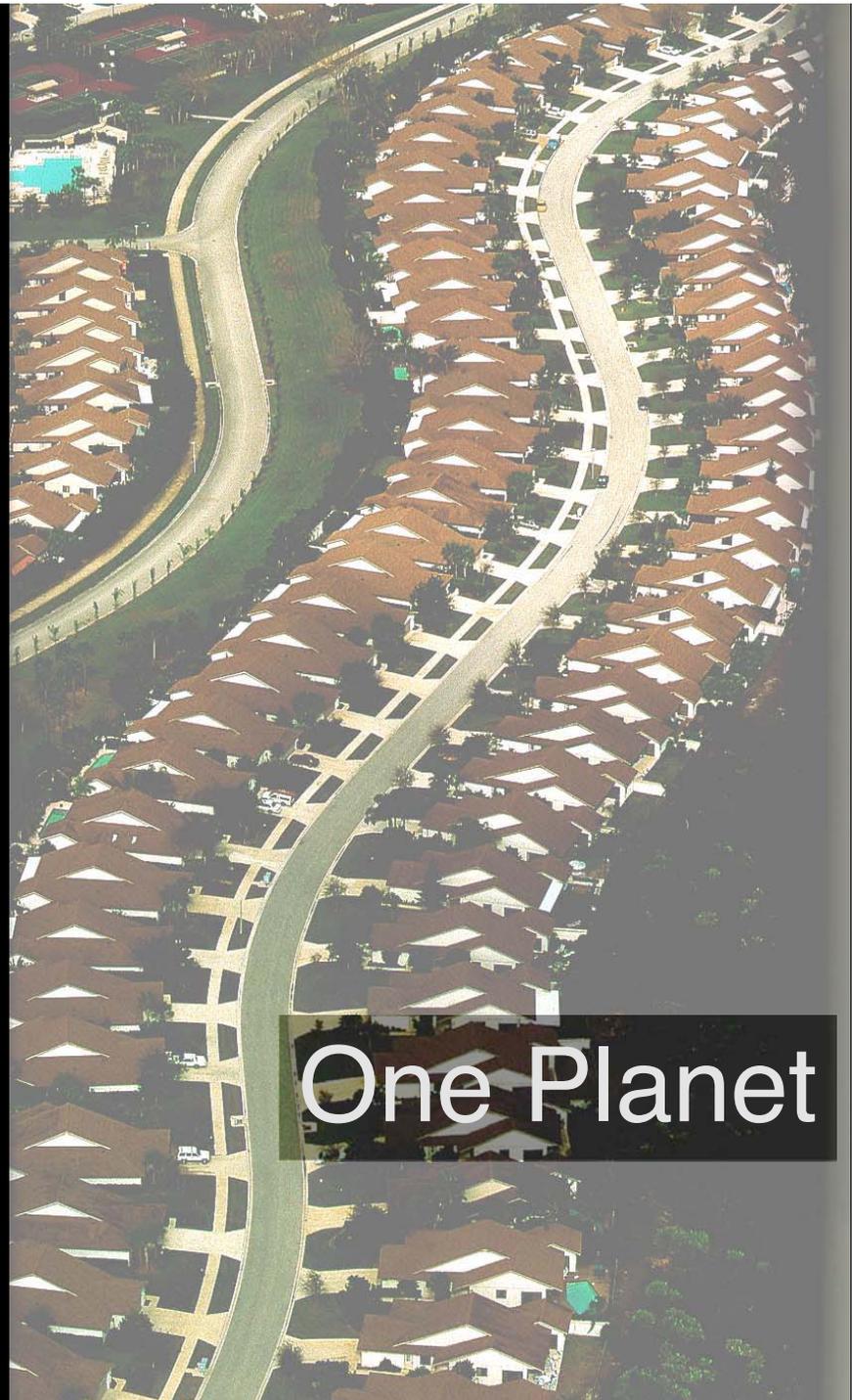


- We deal with space and resource management.
 - ⇒ Earth's population is 6 billion, in 2040 it will reach 12 billion.
 - ⇒ Space and natural resources are limited!
 - ⇒ Those that can manage space and resources are already in great demand.

Two Worlds



One Planet



Reason 5 - Information Technology



- Our majors utilize the most powerful analytical tools related to space and resource management.



- ⇒ cartography
- ⇒ remote sensing
- ⇒ GPS (global positioning systems)
- ⇒ GIS (geographic information systems)

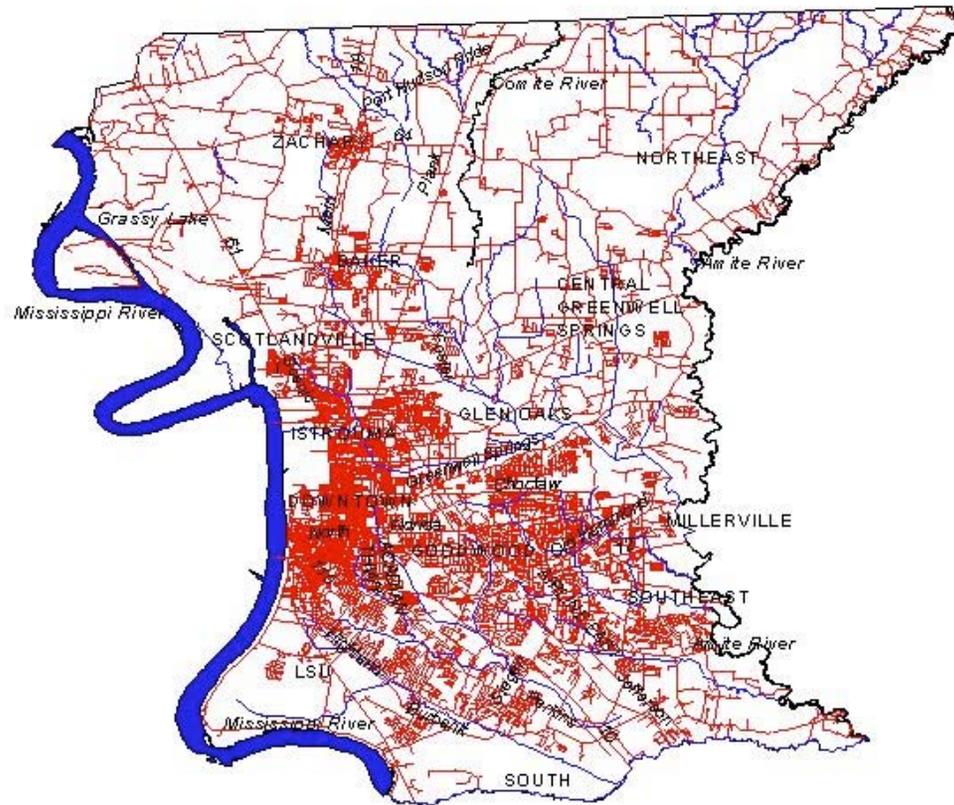
GIS

Geographic Information Systems

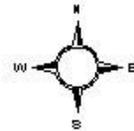
- A VERY powerful and useful tool.

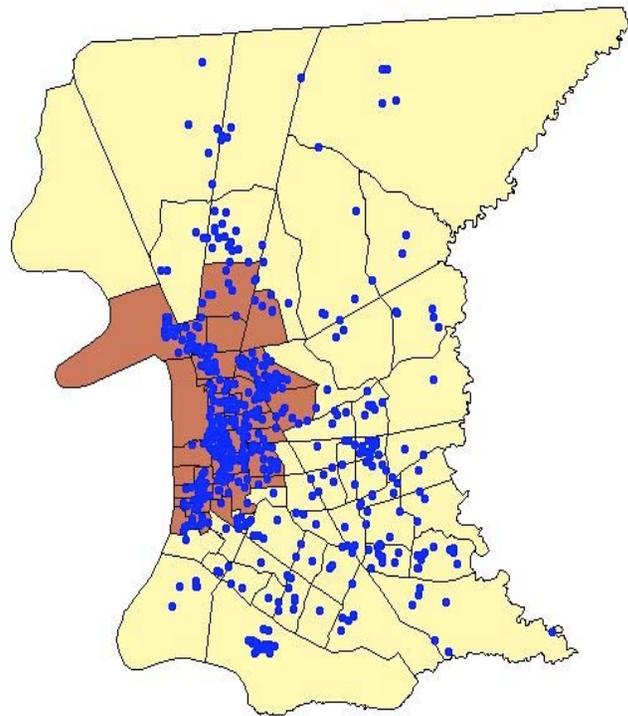
⇒ It is predicted that within 5 years every business, planning agency and government will have GIS trained people running GIS departments - yet today we cannot meet the demand for GIS trained graduates.



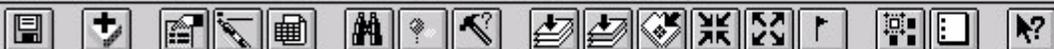


-  Streams
-  Roads
-  Rivers
-  Parish Boundary





- 1993 Low Birth Weight Cases
- 1993 Census Tract: Spatial Low birth weight clusters
- 0.001
 - 1993 Census Tracts



Scale 1: 291,379

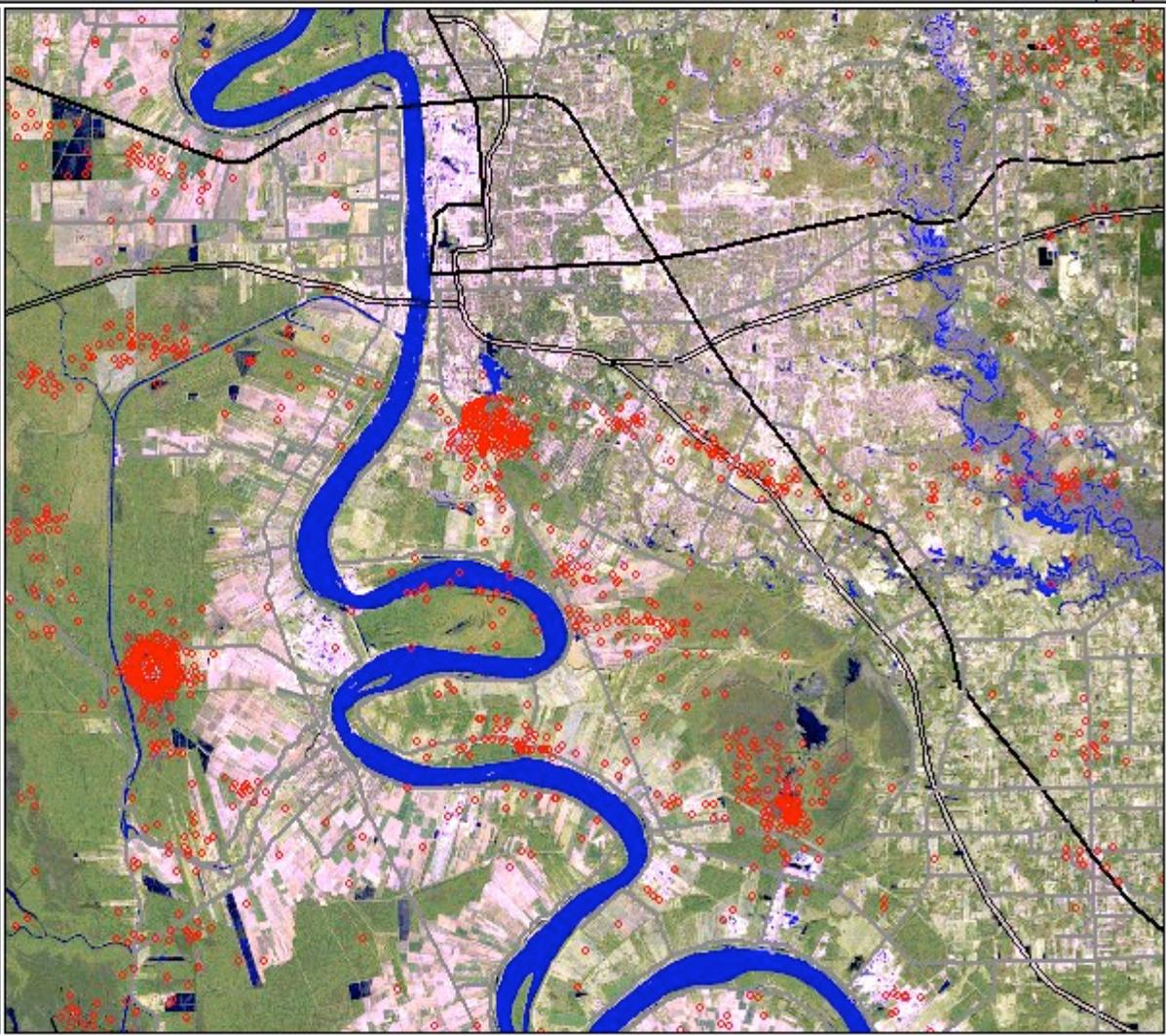
693,150.07
3,344,819.94

Louisiana GIS South

New



- Community Features
 - building
 - church
 - civil
 - hospital
 - park
 - po
 - ppl
 - school
- Pipeline Crossings
 -
- Oil & Gas Wells
 -
- Sea Bird Colonies
 -
- Places
 - CDP
 - city
 - town
 - village
- Fielddata1997
 -
- Fielddata1998
 -
- Fielddata1999
 -
- Wastepits
 -
- Abandoned Vessels
 -



BP-PIPE
BP-PIPE
BP-PIPE
CAPIM

Jobs in GIS



Glossary

IT: Information Technology

URISA: Urban and
Regional Information
Systems Association

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of
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th

Jobs in GIS



Jobs in Petroleum Geology

YEARS EXPERIENCE	B.S.	M.S.	PH.D.
0-2	\$ 76,500	\$ 83,300	\$ 90,000
3-5	83,000	88,400	93,400
6-9	90,000	99,700	98,500
10-14	105,000	113,400	111,500
15-19	115,000	156,800	141,000
20-24	141,000	148,600	155,000
25+	145,300	148,200	168,000

YEARS EXPERIENCE	HIGH	AVERAGE	LOW
0-2	\$ 90,000	\$ 82,200	\$ 75,000
3-5	96,000	89,600	83,000
6-9	145,000	98,500	72,000
10-14	175,000	111,500	90,000
15-19	180,000	141,000	95,000
20-24	260,000	155,000	106,500
25+	208,000	149,900	109,000

Geology and Geography Major

- Research these fields yourself.
- Check out the job market.
- What about a GIS minor?
- Ask lots of questions!