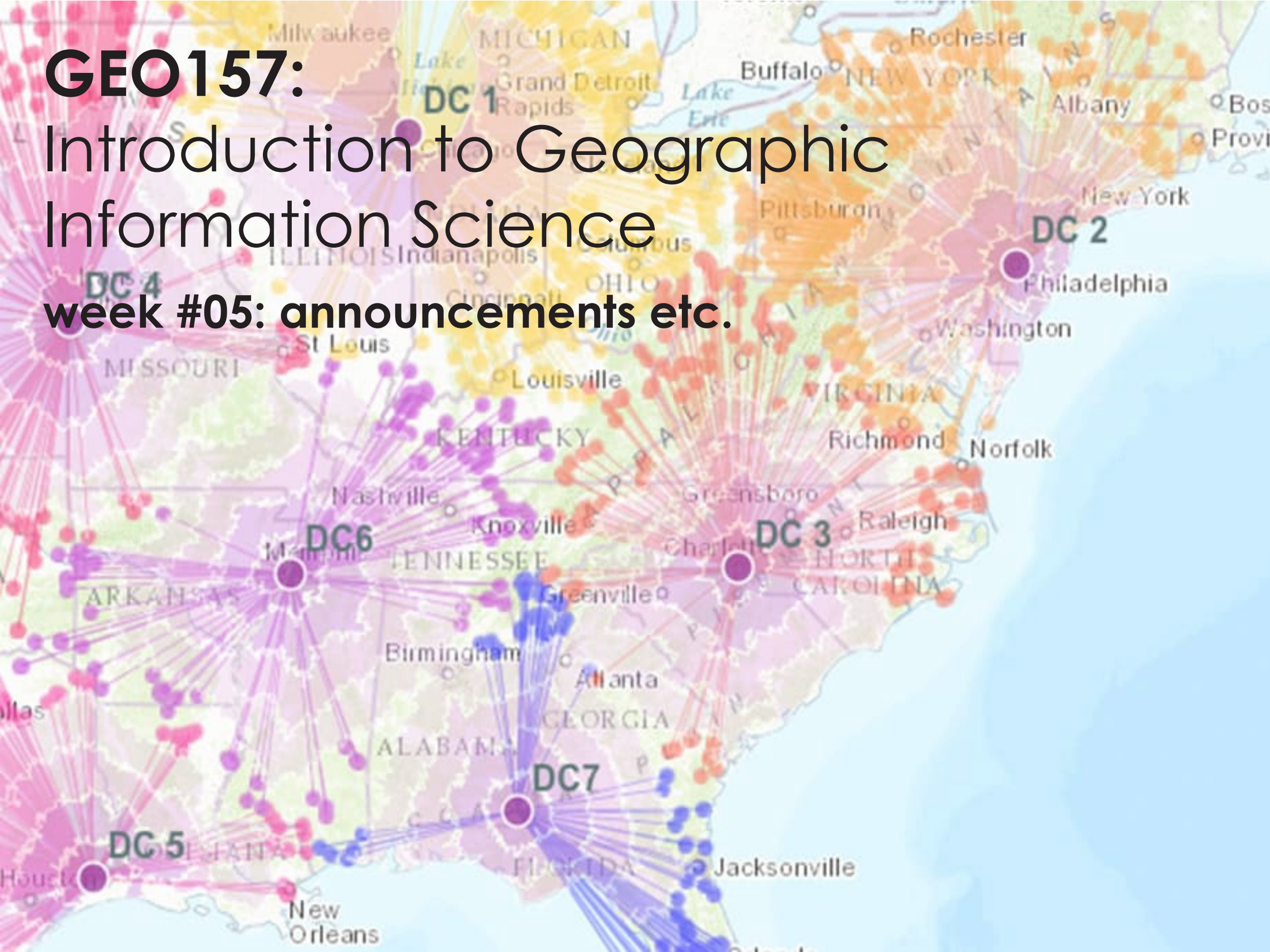
GEO157:
Introduction to Geographic Information Science

week #05: announcements etc.



GEO157

WEEK	Monday am (1)	Monday am (2)	Monday	Friday am	Friday
	Lecture A 09:10-10:30 Sproul 2225	***Lecture B 10:40-12:00 Sproul 2225***	***Office Hours: 1-3 pm***	***LAB 09:10-12:00 Sproul 2225***	***Exrta lab hours: 12-2 pm***
(#1) 2nd / 6th April	**Course introduction**			**fake 'fieldwork' fun**	
	Course introduction and logistics. Laptop software installation.			Paper-based and web-based GIS-like problems.	
(#2) 9th / 13th April	**Lecture 1, Discussion**	**Lecture 2**		**Lab 1**	
	Chapter 1: What is GIS?	Chapter 2: Spatial data		Digitizing	
		Problem Set 1 (Ch. 1)			
(#3) 16th / 20th April	**Worked problems**	**Lecture 3**		**Lab 2**	
		Chapter 3: Spatial data modelling		GPS, Georeferencing, and Geocoding	
	Problem Set 1 due	**Problem Set 2 (Ch. 2+3)**		**Lab 1 due**	
(#4) 23rd / 27th April	**Lab 2 [cont]**	**Lab 2 [cont]**		**Lab 3 / Lecture 4**	
		Chapter 4: Database management		Interpolating weather	
	Problem Set 2 due			**Lab 2 due**	
(#5) 30th / 4th May	**Problem Sets**	**Library GIS visit**		**Lab 4**	
				Vector analysis using earthquake data	
	Oral presentations set	**Problem Set 3 (Ch. 4+5)**		**Lab 3 due**	

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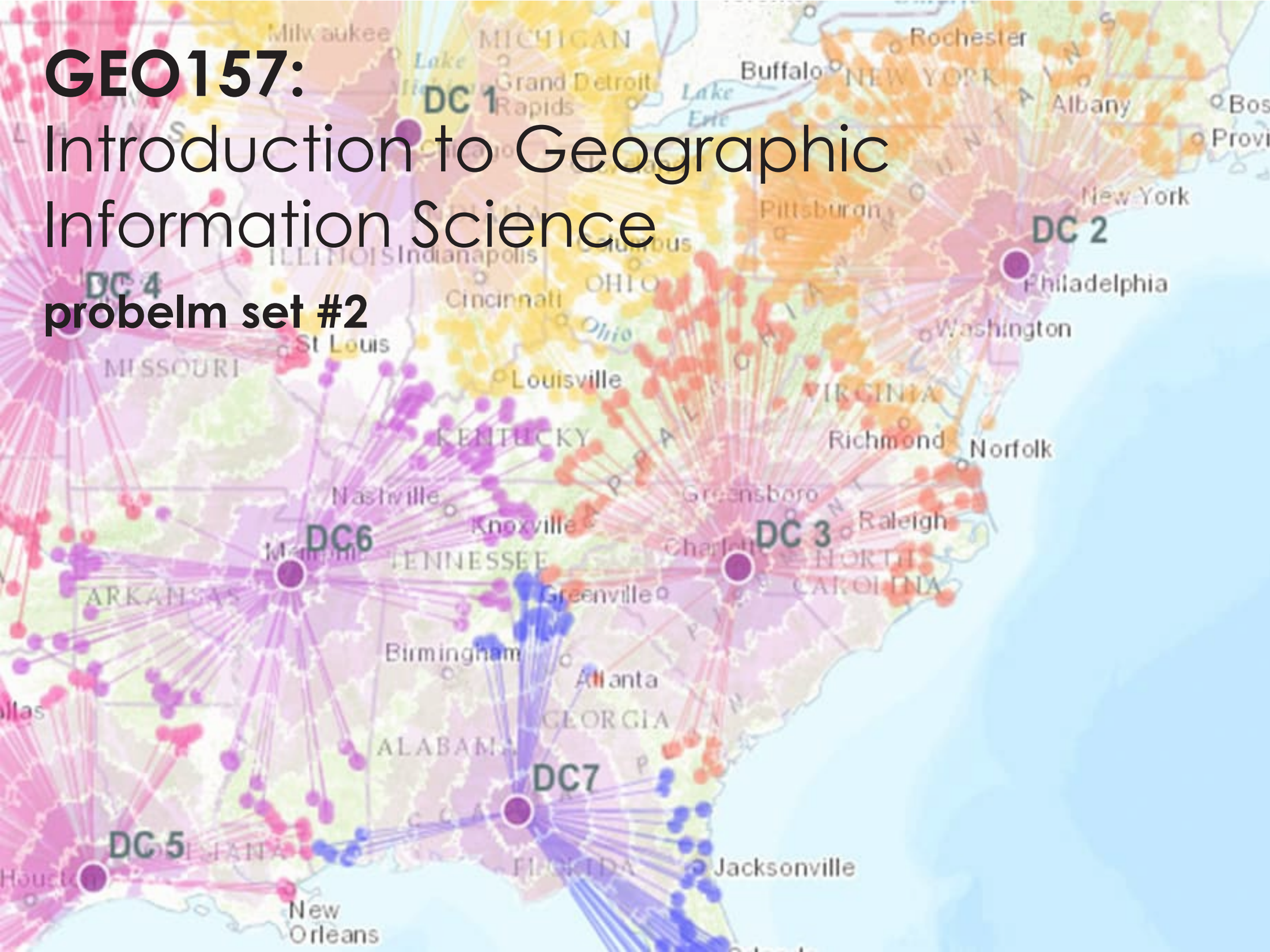
probelm set #2



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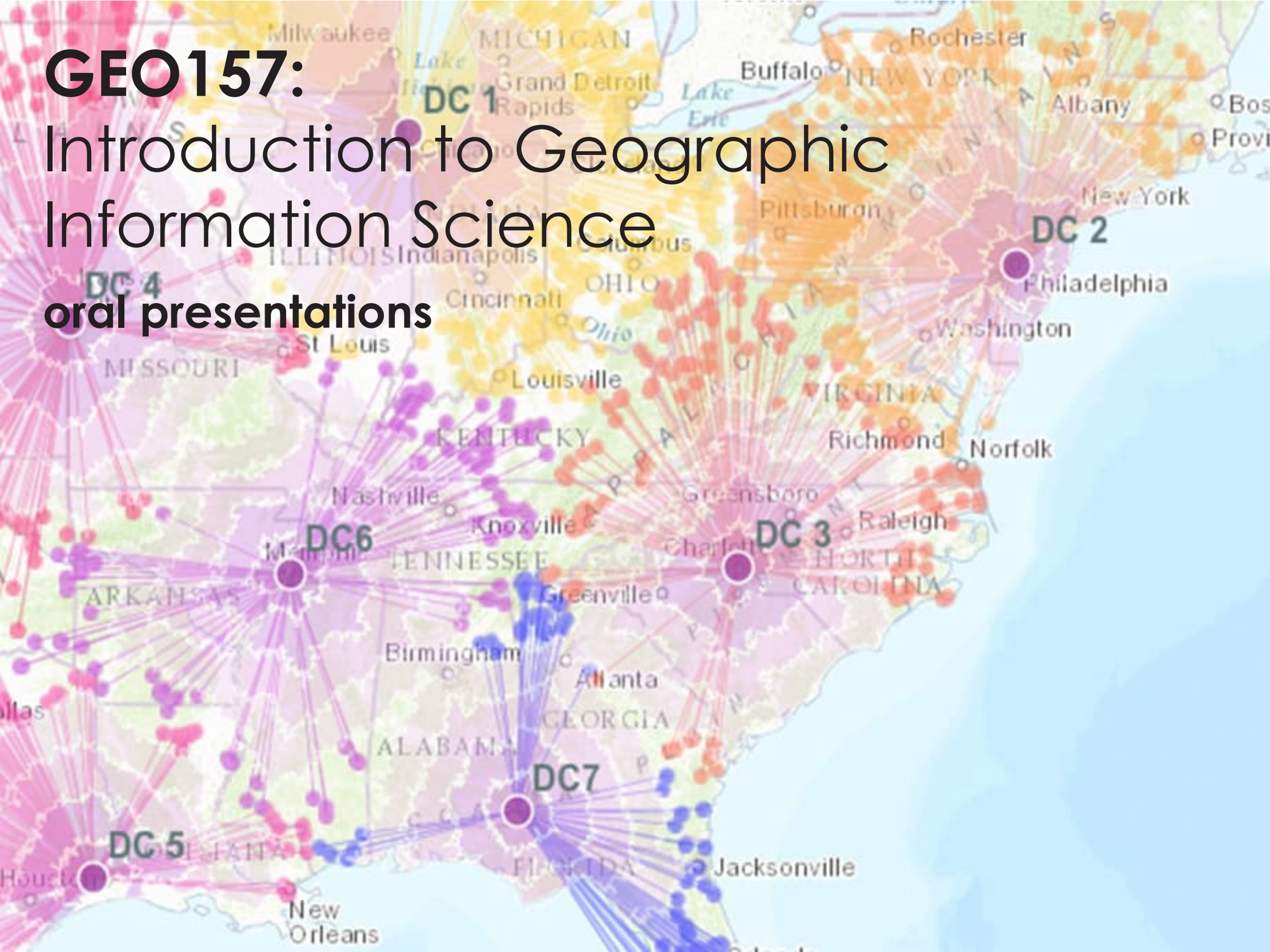
oral presentations



oral presentations

Time allowed: 5 minutes (plus 2-3 minutes for questions)

The length of the presentations is deliberately short to reduce the preparation burden and stress (hopefully). There will be a points penalty if your presentation goes over 6 minutes.

Still, with a turn-around time of 10 minutes, and ~20 students, we will need to split the talks across the 2 sessions of the week (Monday am and Friday am).

The presentations need to be created in Powerpoint (or otherwise digitally, and saved e.g. as a PDF) and in fairness to people going first (vs. those who present at the end of the week), **ALL** presentations files need to be handed in (and copied) **at the start of class on Monday 14th May**.

oral presentations

Time allowed: 5 minutes (plus 2-3 minutes for questions)

You will chose a paper from a list of papers describing GIS-related research and findings, to base your presentation on. You need to have chosen and to sign up at the start of class on Monday 7th May.
(Chosing a paper not on the list is possible ... please ask in advance and certainly before Monday 7th.)

The overall goal of the exercise is to:
Introduce and discuss the benefits, drawbacks, and technical details of the application of GIS in your chosen case study.

Marks will be awarded under the catarogies:

- Introduction and Background
- Technical content and analysis
- Quality and clarity of the presentation itself

A detailed marking scheme (and hence detailed presentation guidence) will be made available on Monday 7th (at chosen paper sign-up).

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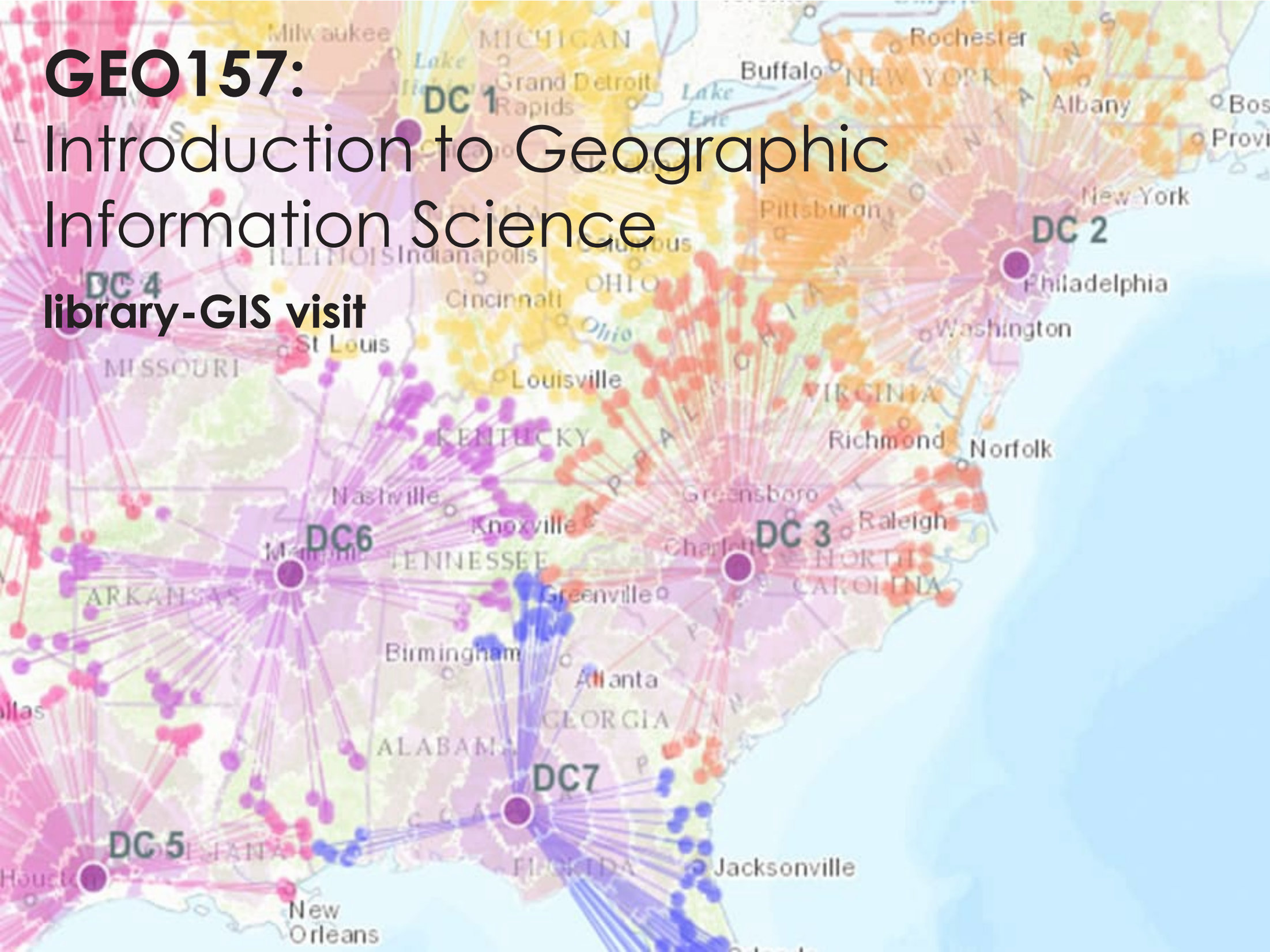
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library-GIS visit
DC 1
DC 2
DC 3
DC 4
DC5
DC6
DC7
Milwaukee
MICHIGAN
Grand Rapids
Detroit
Lake Erie
Buffalo
Rochester
NEW YORK
Albany
New York
Pittsburgh
Philadelphia
Washington
Indianapolis
ILLINOIS
OHIO
Cincinnati
Columbus
Ohio
St Louis
MISSOURI
Louisville
KENTUCKY
VIRGINIA
Richmond
Norfolk
Nashville
Knoxville
Greensboro
Raleigh
TENNESSEE
ARKANSAS
Greenville
Birmingham
Atlanta
GEORGIA
ALABAMA
Jacksonville
New Orleans

library-GIS visit

Meet: outside the entrance to the science library @ 10.40 am

Janet Reyes <janet.reyes@ucr.edu> is the UCR Geospatial Information Librarian.

She'll provide a tour of the Map Collection (ca. 30 minutes) and then talk to you briefly about:

- Other geospatial/GIS classes and happenings at UCR.
- GIS career-related info.

REMEMBER: you have projects later in the Quarter to do and there amy be material or information in the library of use/interest. Make use of this oppertunity to think about ideas for your project, and maybe even scope out data availabilty.

(Also remember that there will be a question on the Mid-term exam about the visit.)

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(#6) 7th / 11th May	**Midterm Exam**	**Lecture 6**		**Lab 5**	
	(Covers Chapters 1-5)	Chapter 6: Data analysis		Raster analysis using vegetation data	
	Problem Set 3 due	**Problem Set 4 (Ch. 6)**		**Lab 4 due**	
(#7) 14th / 18th May	**Oral Presentations**	**Oral Presentations**		**Oral Presentations**	
	Problem Set 4 due	**Problem Set 5 (Ch. 7)**		**Lab 5 due**	
(#8) 21st / 25th May		**Lecture 7**		**(LAB)**	
	PROJECT WORK	Chapter 7: Analytical modelling in GIS		PROJECT WORK	
	Problem Set 5 due			**Projects set**	
(#9) 28th / 1st June	***Memorial Day***	***Memorial Day***		**(LAB)**	
				PROJECT WORK	
	Project Part 1 due				
(#10) 4th / 8th June	**Final Project Presentations**	**Final Project Presentations**		**(LAB)**	
				PROJECT WORK	
	Project Part 2 due				
finals 4th / 8th June	***Finals Week***	***Finals Week***		***Finals Week***	
	Final Project due in @ 9.00 am				

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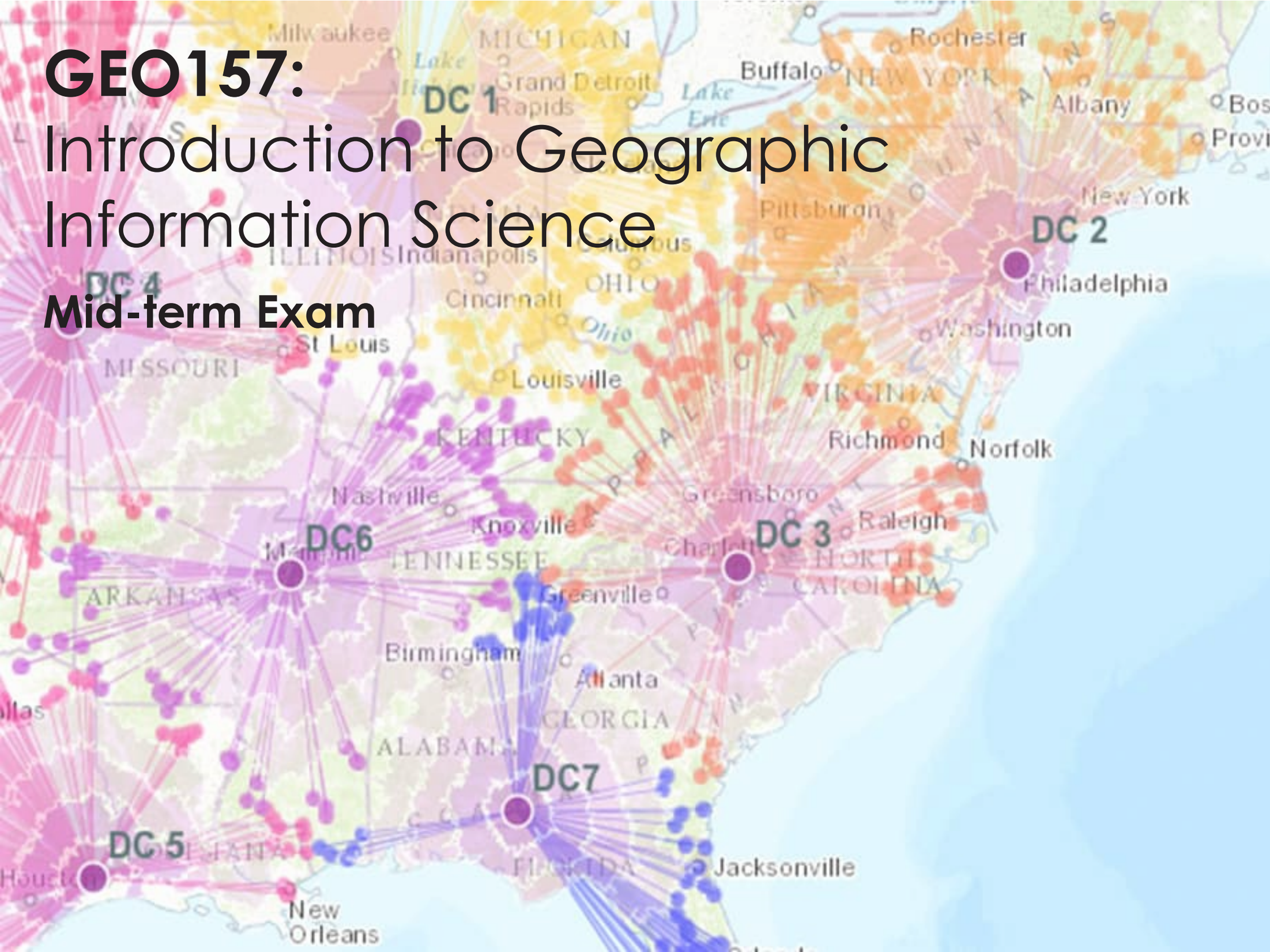
Mid-term Exam



Mid-term Exam

Time: 1 1/2 hours (90 minutes)

The exam will comprise four (4) sections, constituting 100% of the exam marks:

(I) Chose the correct answer (in a short sentence). The choice is an either-or (one correct / one incorrect).

The sky is **blue / pink-with-green-spots**.

(II) Multiple choice – *n* correct answers required out of *m* options. Penalty points for each incorrect answer.

Identify 3 fruit: apple, car, peanut, aardvark, pear, peach, GIS.

(III) 'Fill in the blank' (typically single word answers).

A _____ map projection is one in which any angle on Earth is preserved in the image of the projection.

(IV) Short answers (no more than a couple of sentences).

Briefly describe your reasons for taking GEO157.

But ... there will also be a bonus (mark) section **(V)**. Marks obtained in this section are in addition to the 100% maximum achievable in sections I-IV.

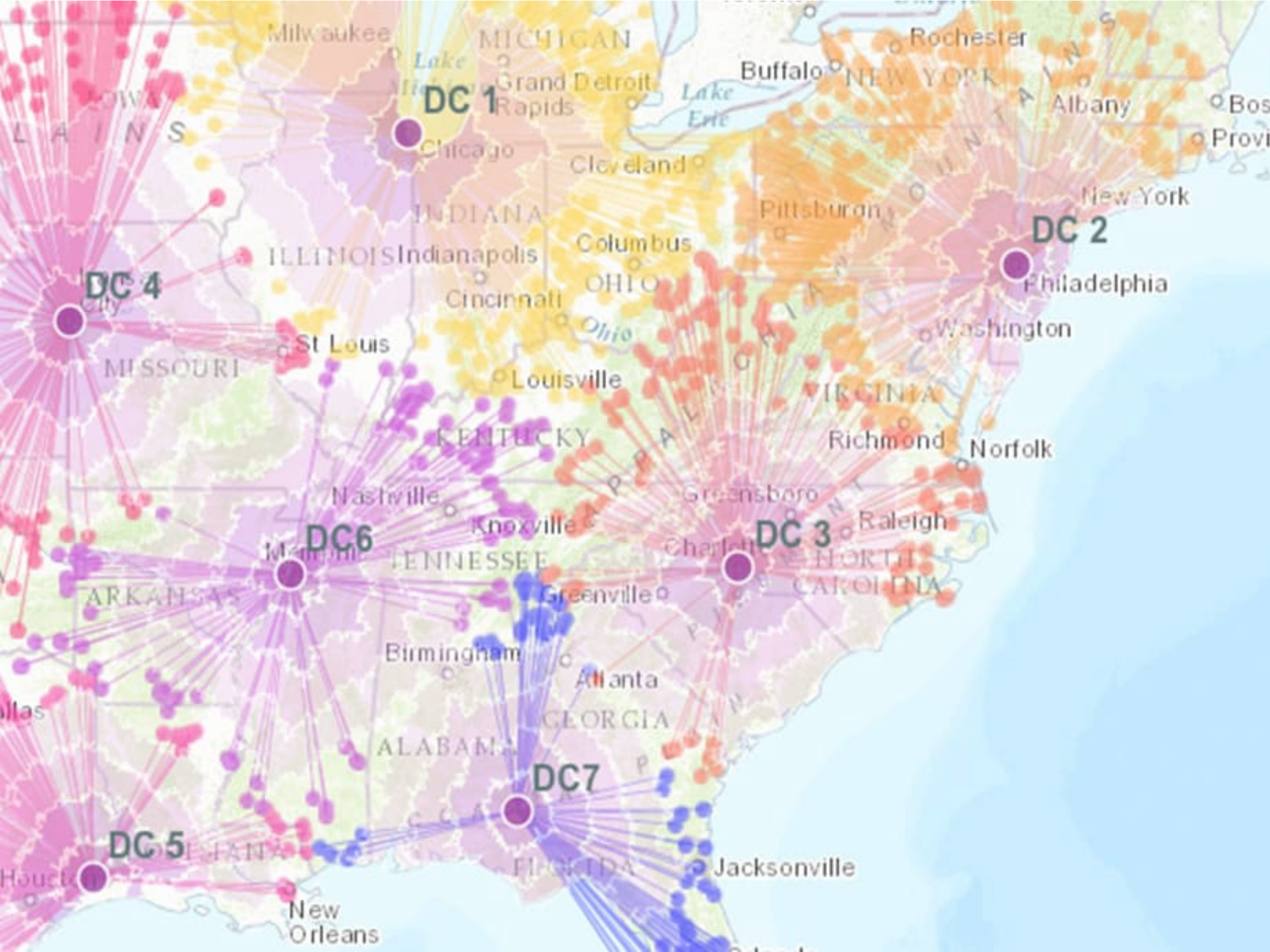
Mid-term Exam

Time: 1 1/2 hours (90 minutes)

The examined content of the 4 main sections will be Chapters 1 through 5 of the course textbook. (The problem sets can be taken as a guide to the level of detail and scope of information.)

The bonus section may examine information provided/learned in the Lab exercises, lectures, and/or the library-GIS visit.

The exam will start at 9.10 am.


DC 1
DC 2
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Milwaukee
Chicago
Grand Rapids
Detroit
Cleveland
Buffalo
Rochester
Albany
New York
Pittsburgh
Philadelphia
Washington
Columbus
Indianapolis
Cincinnati
St Louis
Louisville
Nashville
Knoxville
Richmond
Norfolk
Raleigh
Greensboro
Greenville
Birmingham
Atlanta
Jacksonville
New Orleans
MICHIGAN
INDIANA
ILLINOIS
OHIO
MISSOURI
KENTUCKY
VIRGINIA
TENNESSEE
ARKANSAS
GEORGIA
ALABAMA
Lake Erie
Ohio