

Key Concepts and Terms - Review for Second Hour Exam FW3540 - Spring Semester 2008

Terminology

object-oriented data model	film plane
georelational data model	fiducial mark
join	principal point
relate	subtractive primary colors
cartography	additive primary colors
thematic map	wavelength
spatial resolution	frequency
spectral resolution	synoptic
temporal resolution	overlay
remote sensing	clip
active sensor	buffer
passive sensor	SQL
vertical aerial photo	erase
oblique aerial photo	union, intersect
focal length	dissolve

Important Concepts, Theories and Ideas

Explain the difference between the georelational and object-oriented data models

Know the elements of visual interpretation and how they are used to identify features on the landscape

Orthophoto- what is it, know its utility as a map substitute. Know what a Digital Orthophoto Quadrangle (DOQ) is. You may wish to refer to

<http://edc.usgs.gov/products/aerial/doq.html> for information.

Understand the electromagnetic spectrum and be able to discuss what parts are commonly used for remote sensing activities.

Know and be able to explain the difference between linking and joining databases

Be able to explain some uses of a summary table in ArcMap

Know the major uses of satellite products outlined in class (e.g., the uses of AVHRR data vs. Landsat or SPOT)

Know and be able to explain the differences amongst the various geoprocessing operations

Know / explain the difference between qualitative and quantitative maps

Be able to explain why you would want to use the ColorBrewer online tool

You are responsible for knowing all of the material presented in lab, lecture and assigned readings. The above list, while extensive, may not cover all of the topics addressed on the exam.