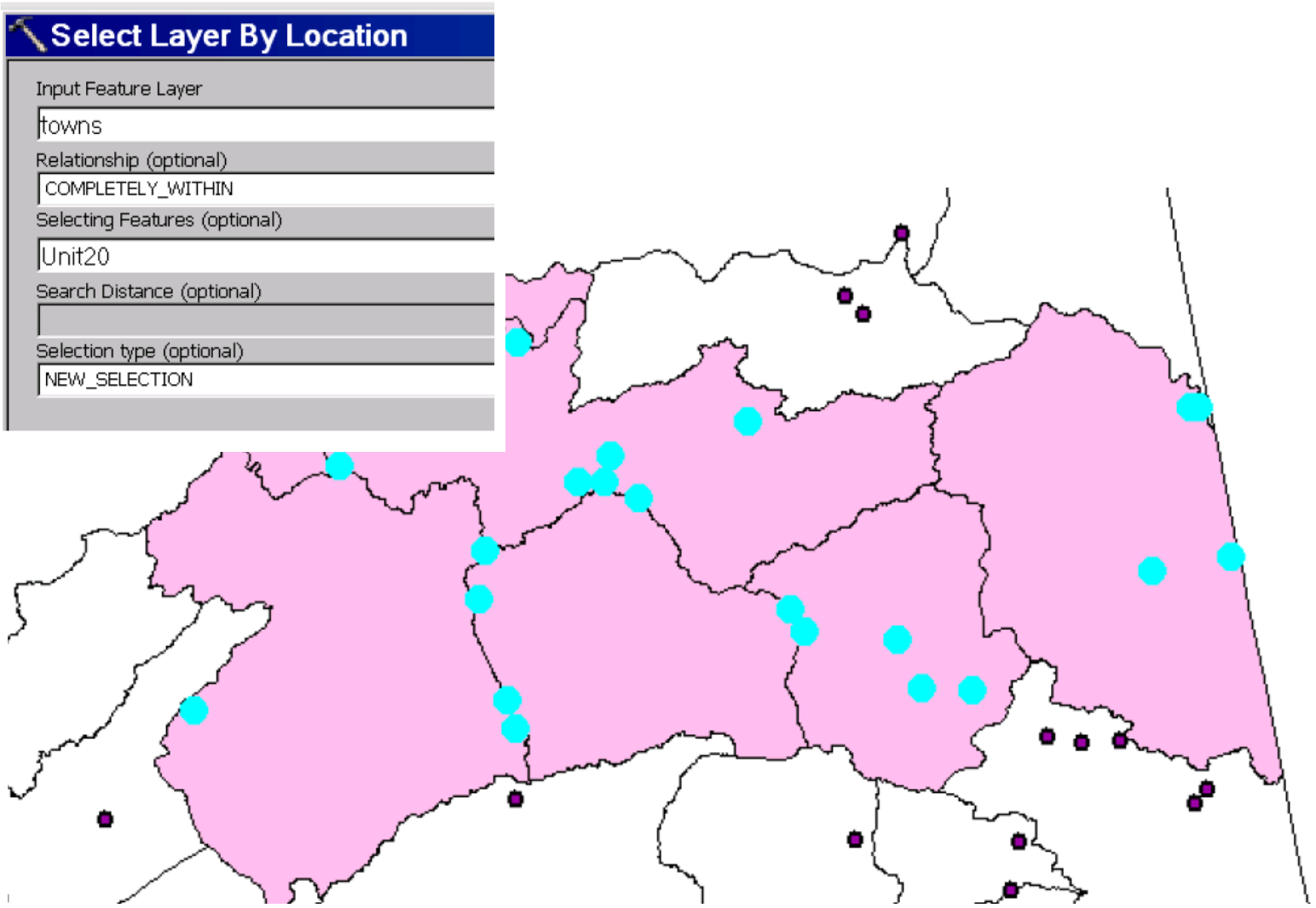
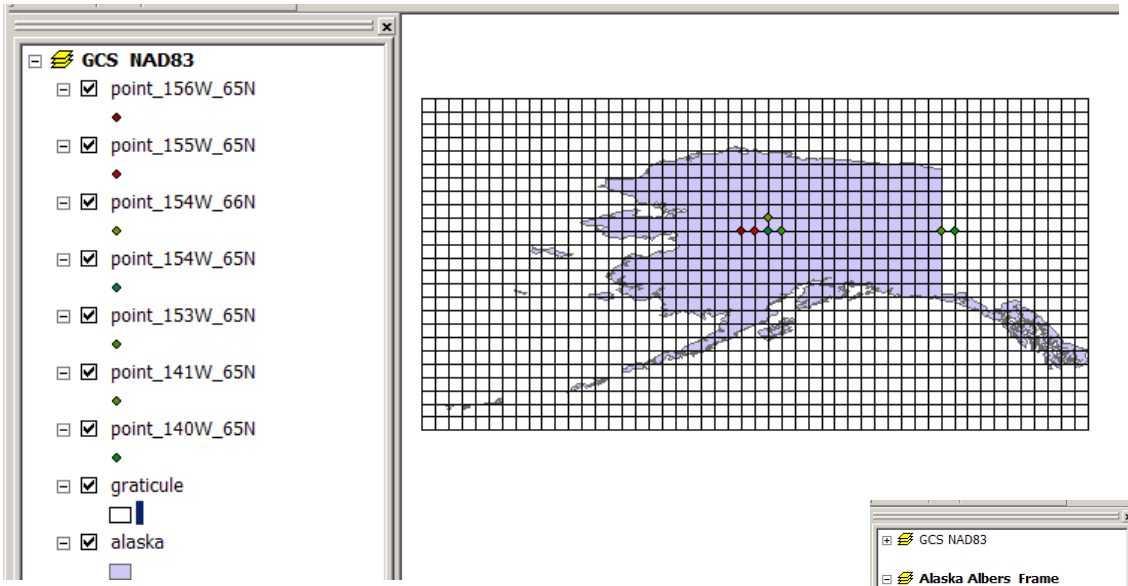
Lab 1: Introduction to ArcGIS10.4

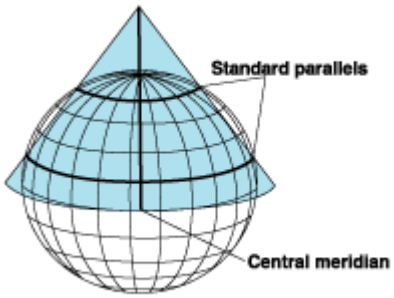


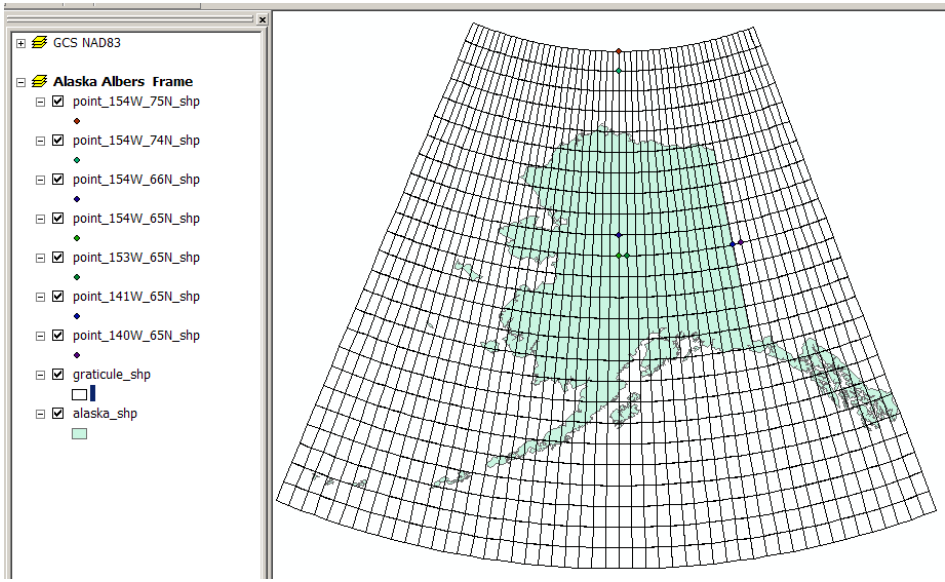
Lab 2: Five Dimensions of GIS

- Point location
- Line length, Polygon Area
- Line measures (miles, km)
- Z (elevation or depth)
- Time

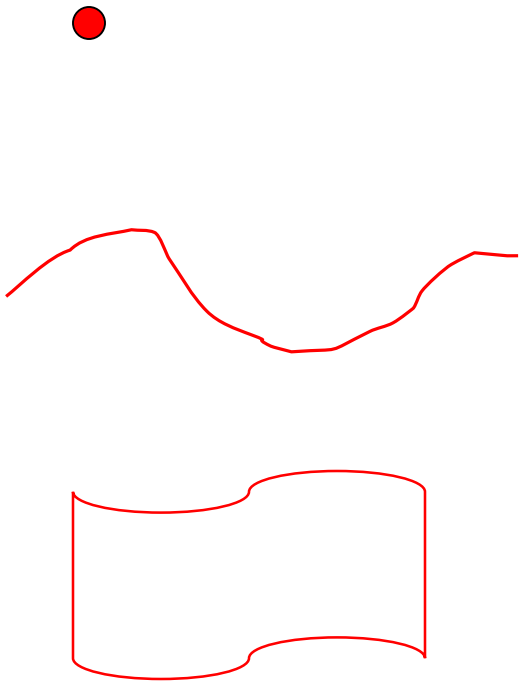
Lab 3: Coordinate Systems







Lab 4: Feature Formats

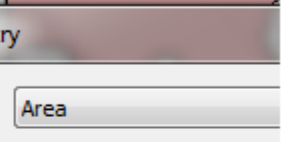


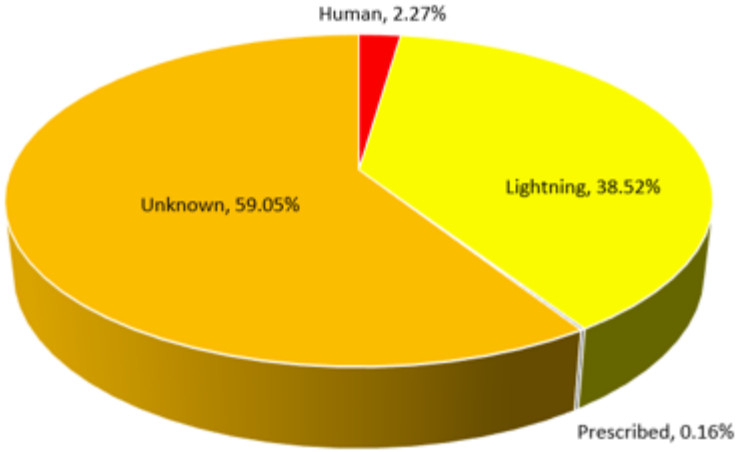
- Arc/Info Coverages
- Shapefiles
- Personal Geodatabase
- File Geodatabase

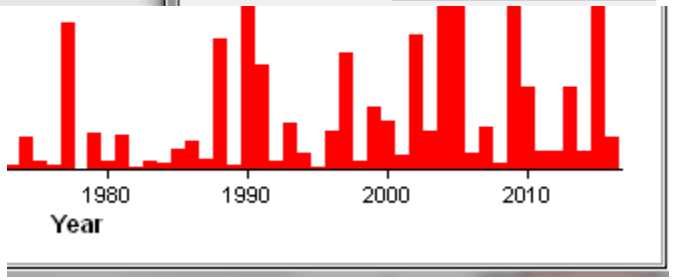
Lab 5: GIS Tables and Charts

FireAreaHistory

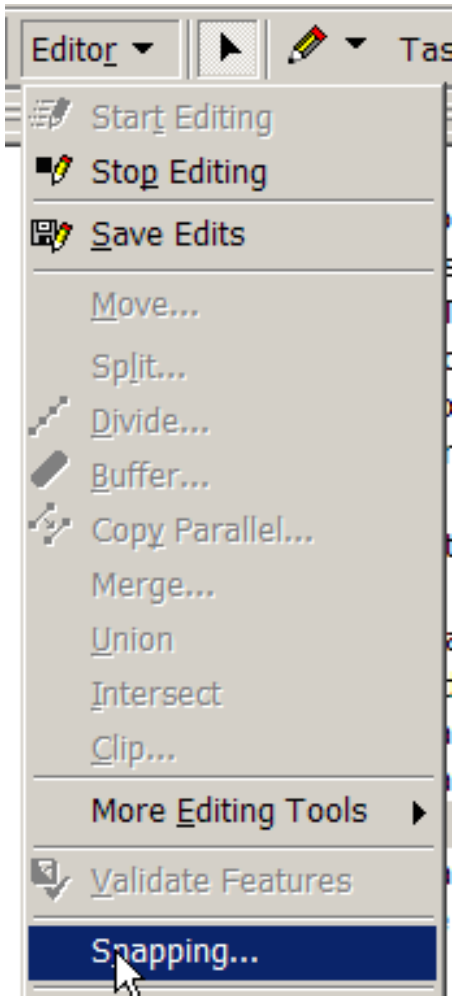
SpecCause	Slope	Aspect	Elevation	AREA	LEN	Hectares
Lightning				0.122563	3.920177	
Lightning	0-25	North East	0501-1500	0.00016	0.085721	
LIGHTNING				0.003873	0.416638	
LIGHTNING				0.01497	0.735358	
LIGHTNING				0.006112	0.41884	
LIGHTNING				0.019671	0.936947	
				0.000368	0.22252	
LIGHTNING				0.014506	0.740776	
	0-25	Flat	0-500	0.000001	0.006498	
				0.000282	0.073666	
Lightning				0.000495	0.173382	
Lightning	0-25	Flat	0501-1500	0.000057	0.044441	
Lightning				0.000269	0.094918	
Lightning				0.022251	1.082527	

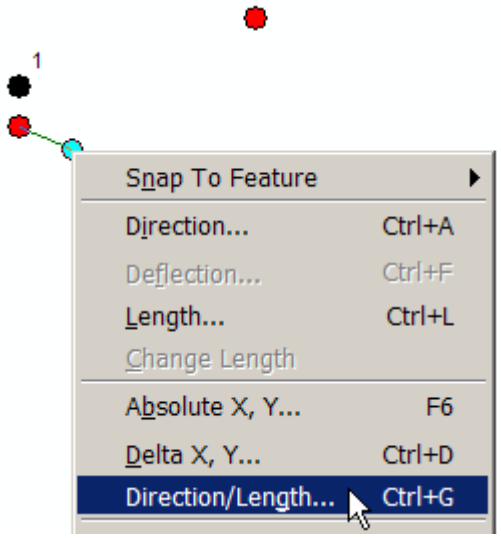




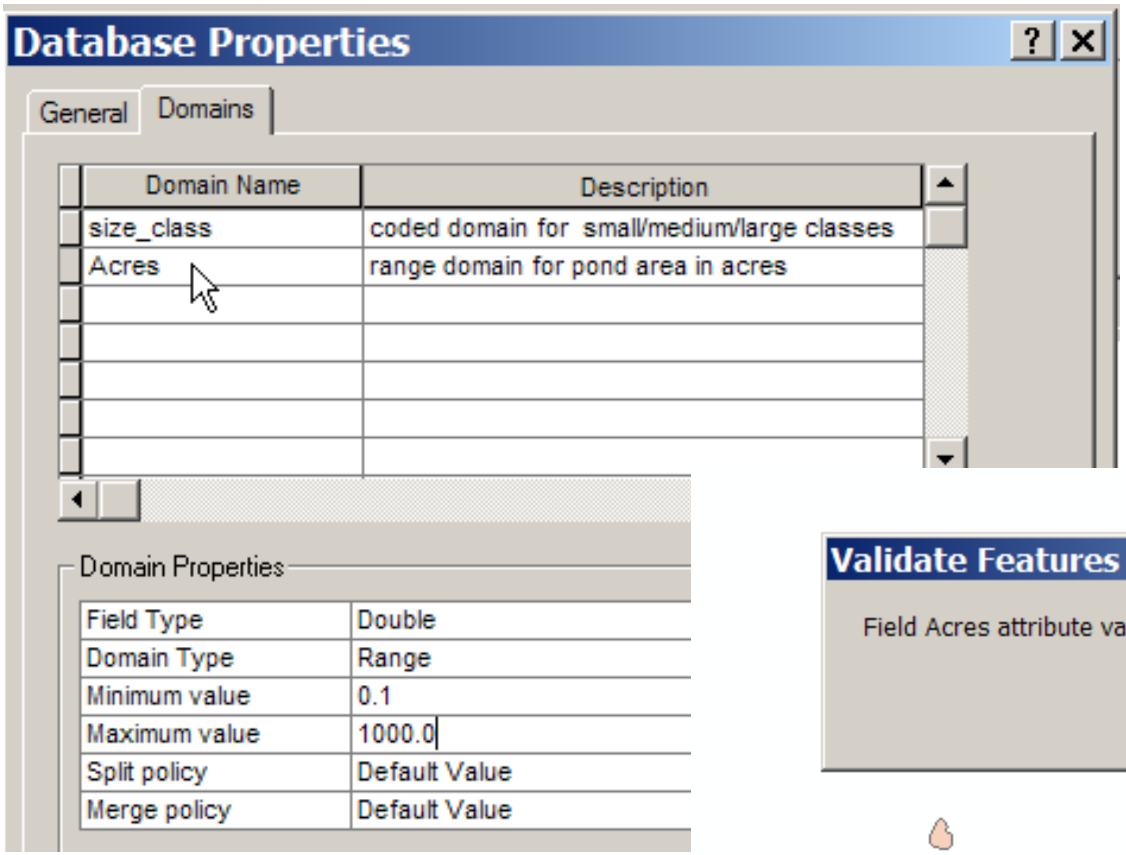


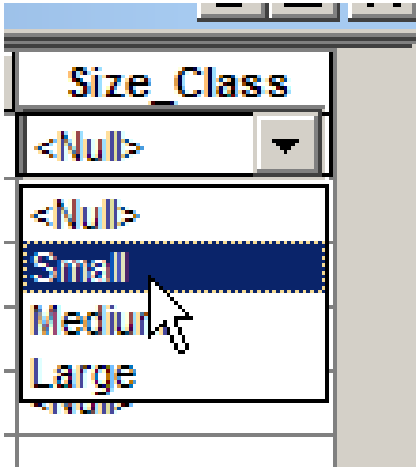
Lab 6: Editing Shapefiles

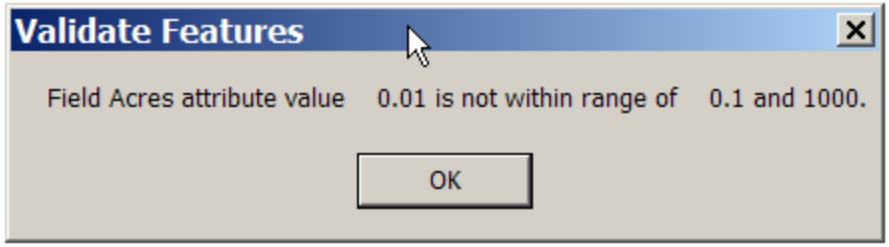




Lab 7: Geodatabases

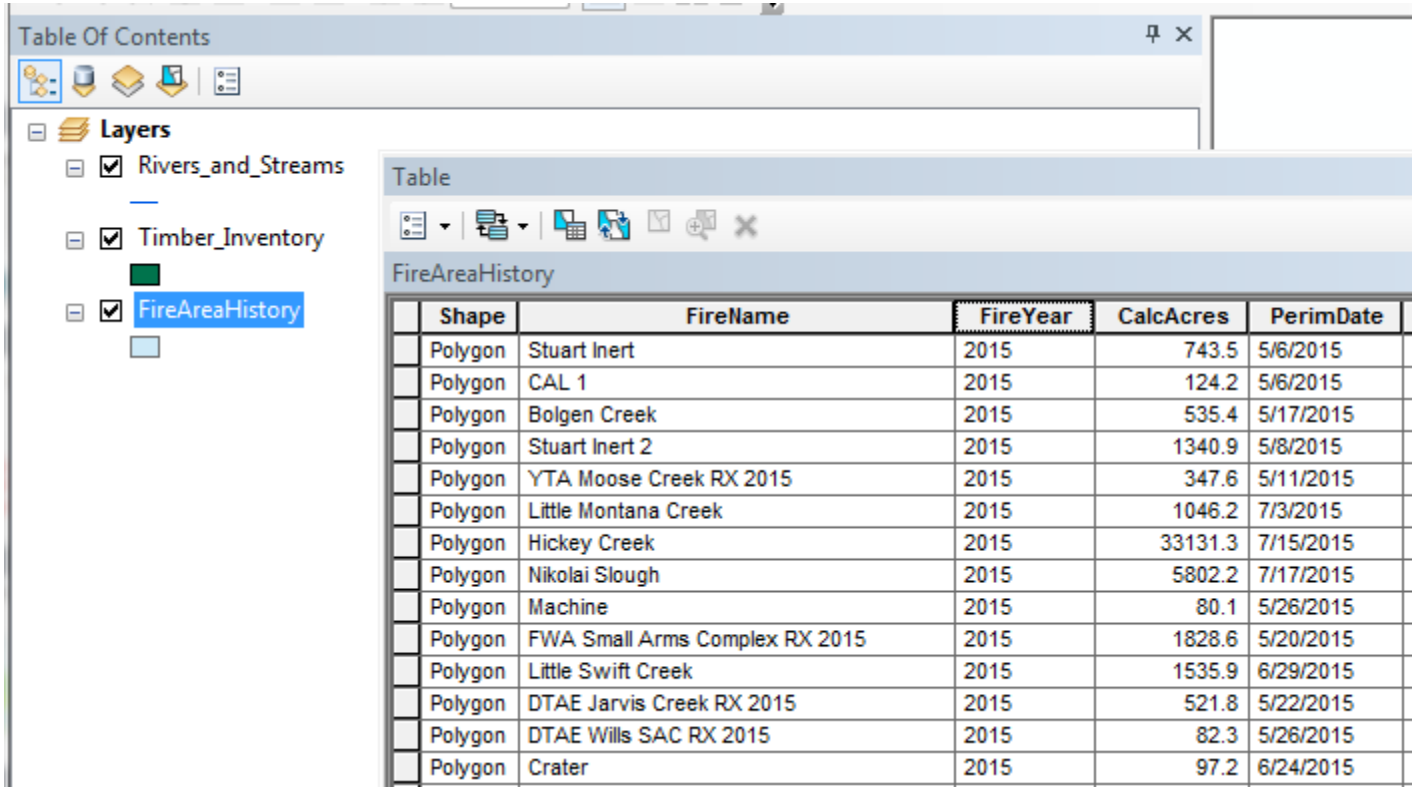






GIS Problem Solving Exams

Oct 23-25 Lab Sections

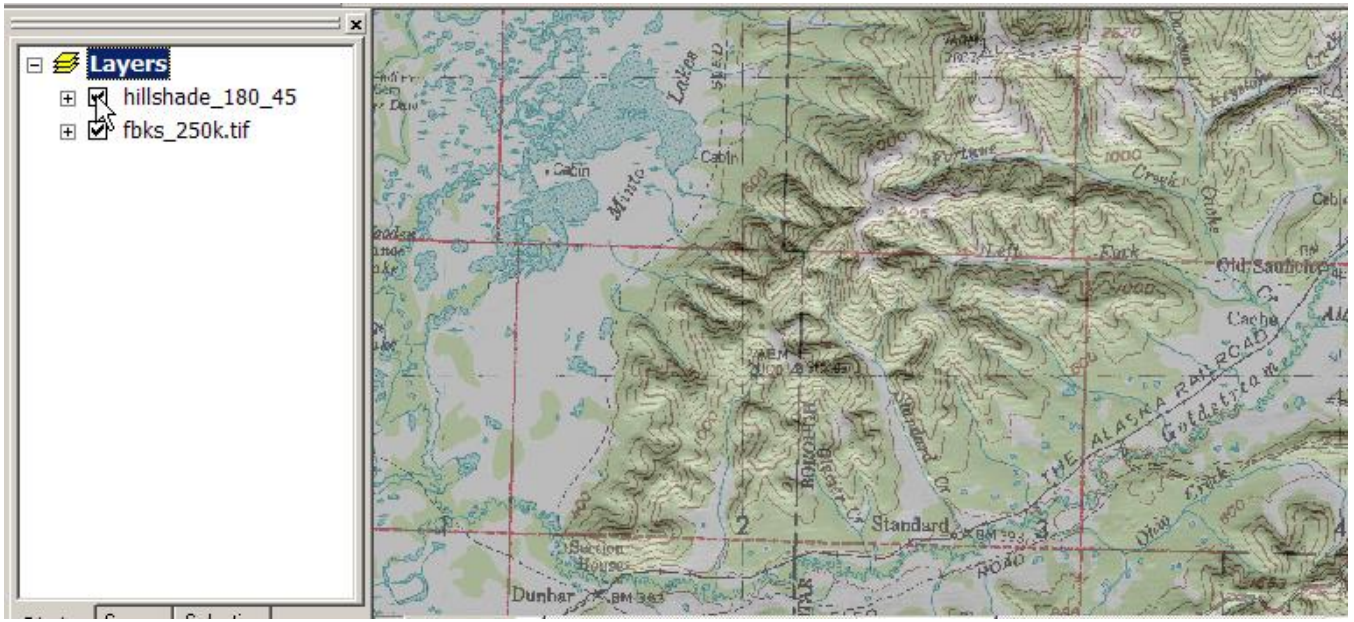


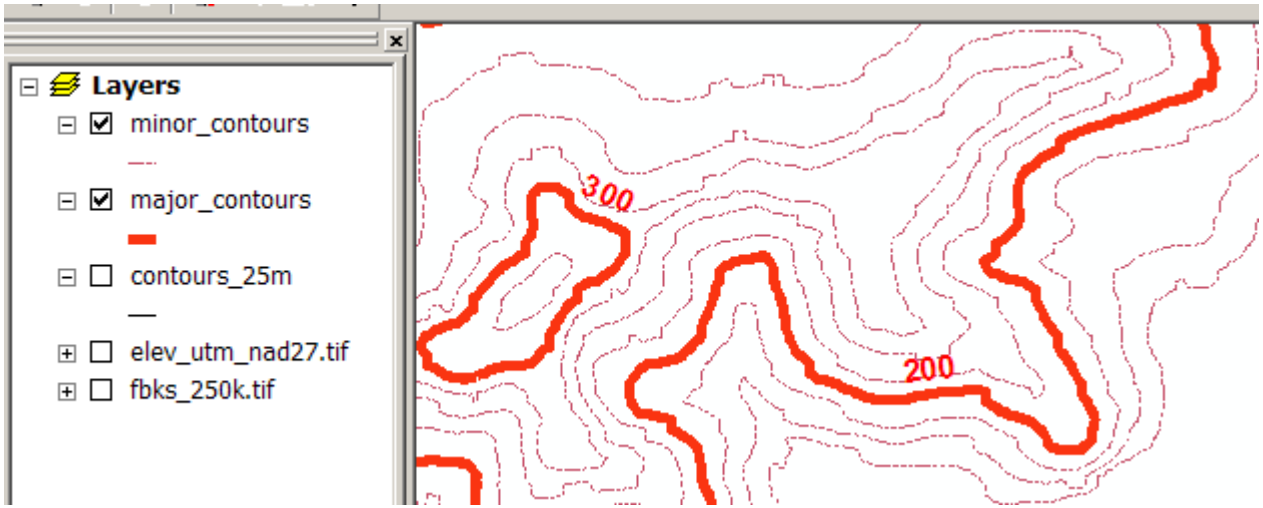
Table

FireAreaHistory

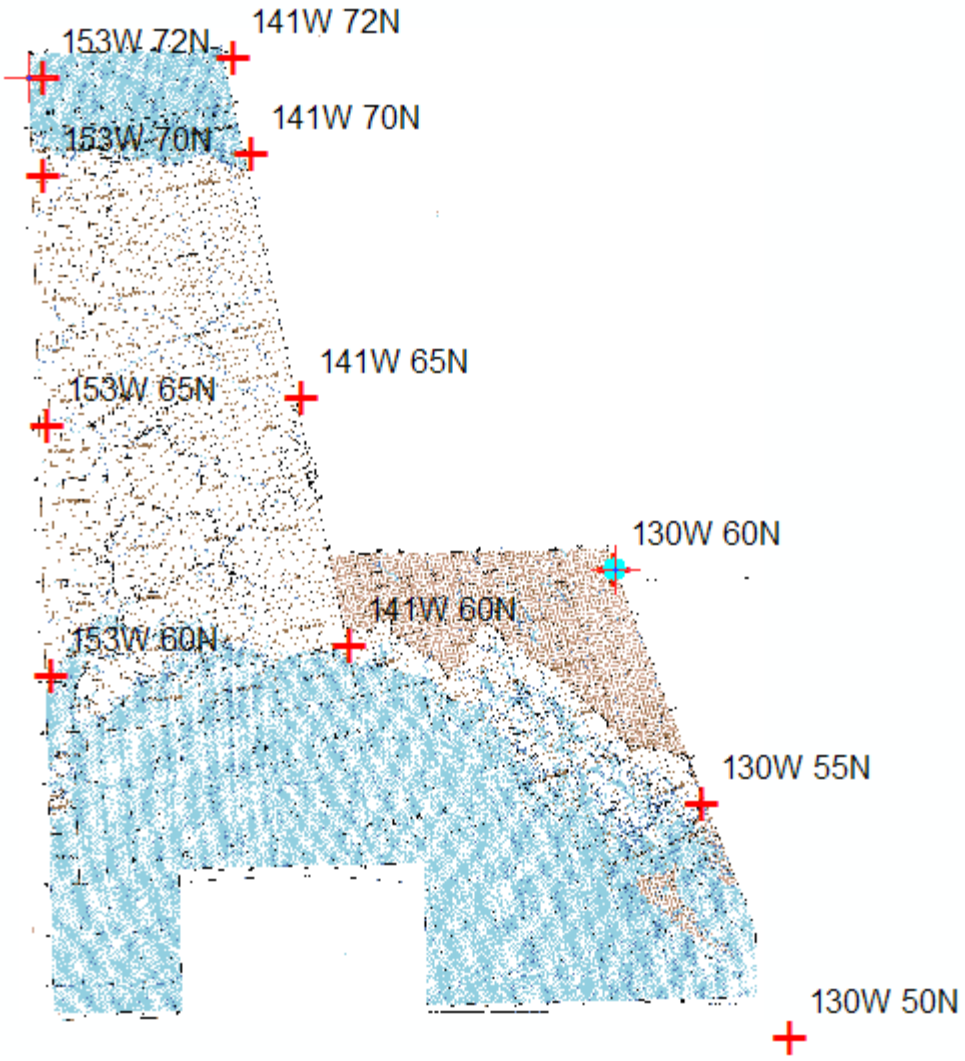
Shape	FireName	FireYear	CalcAcres	PerimDate
Polygon	Stuart Inert	2015	743.5	5/6/2015
Polygon	CAL 1	2015	124.2	5/6/2015
Polygon	Bolgen Creek	2015	535.4	5/17/2015
Polygon	Stuart Inert 2	2015	1340.9	5/8/2015
Polygon	YTA Moose Creek RX 2015	2015	347.6	5/11/2015
Polygon	Little Montana Creek	2015	1046.2	7/3/2015
Polygon	Hickey Creek	2015	33131.3	7/15/2015
Polygon	Nikolai Slough	2015	5802.2	7/17/2015
Polygon	Machine	2015	80.1	5/26/2015
Polygon	FWA Small Arms Complex RX 2015	2015	1828.6	5/20/2015
Polygon	Little Swift Creek	2015	1535.9	6/29/2015
Polygon	DTAE Jarvis Creek RX 2015	2015	521.8	5/22/2015
Polygon	DTAE Wills SAC RX 2015	2015	82.3	5/26/2015
Polygon	Crater	2015	97.2	6/24/2015

Lab 8: Elevation Rasters

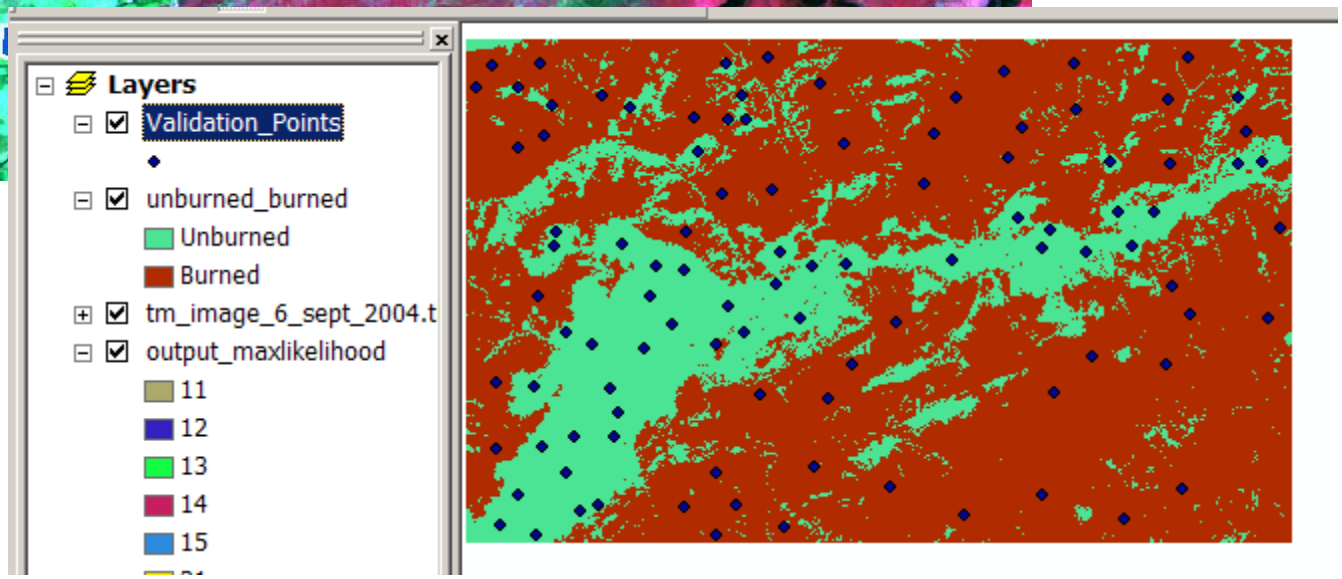




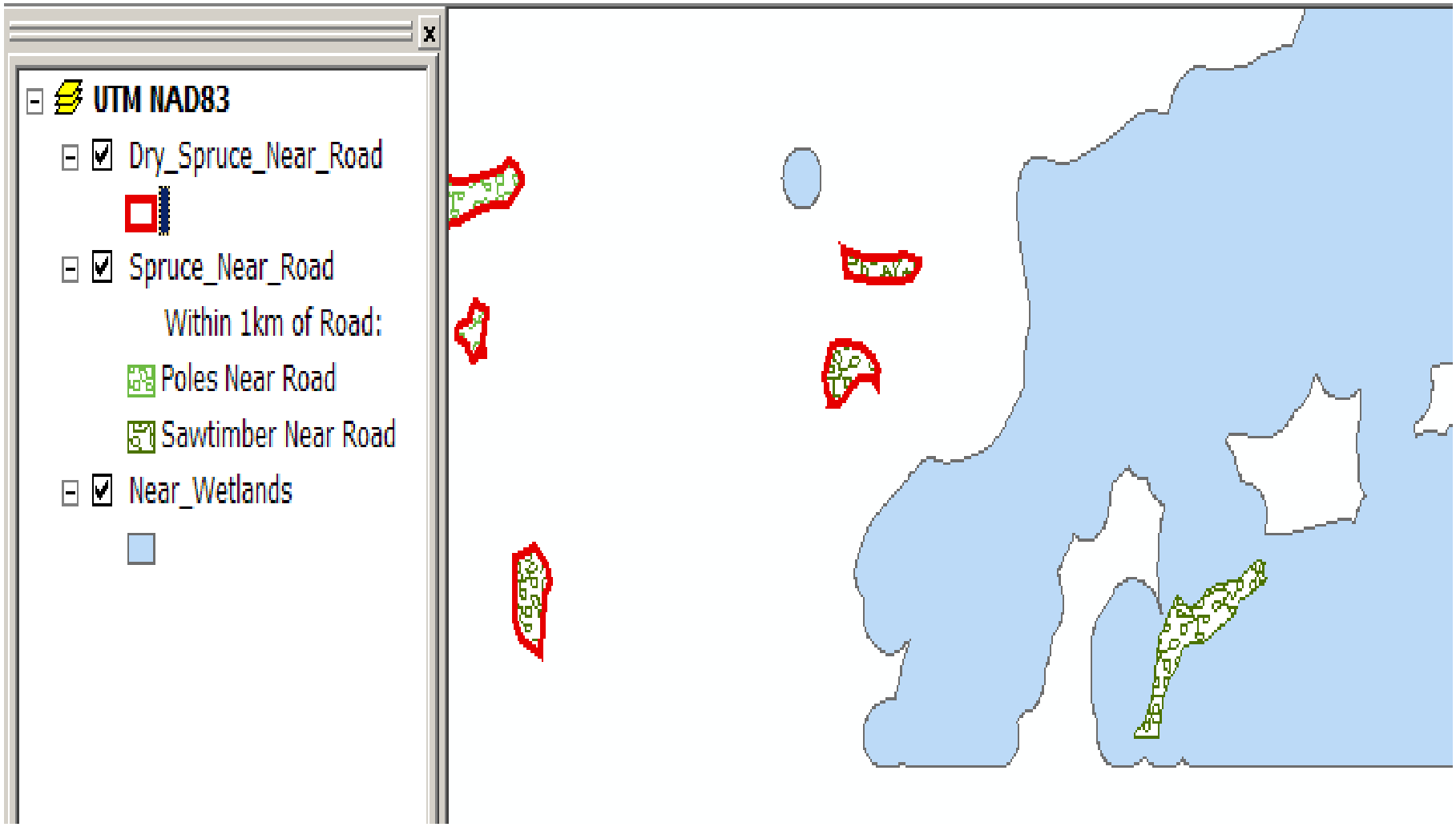
Lab 9: Image Georeferencing



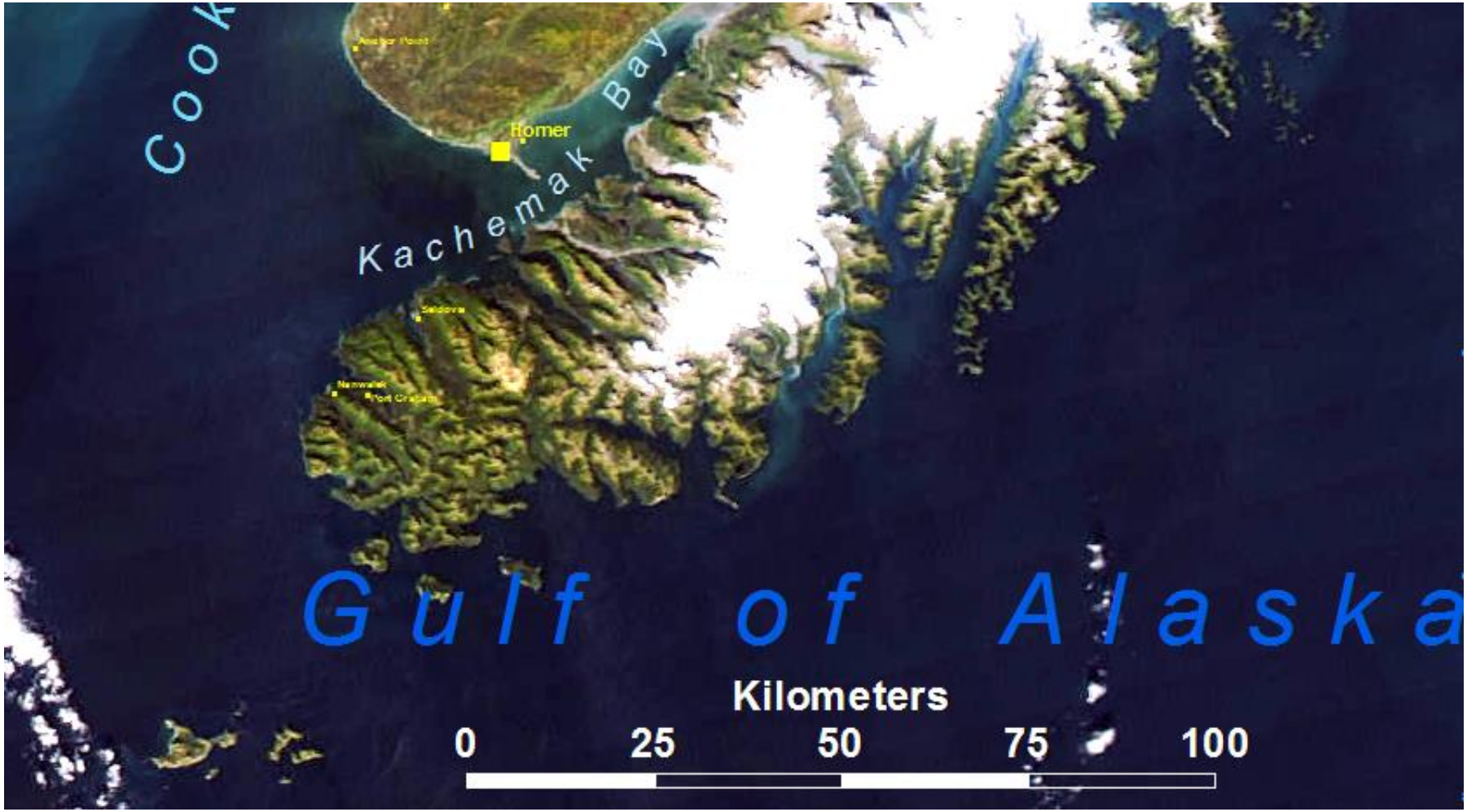
Lab 10: Image Classification



Lab 11: Feature Analysis



Lab 12: Map Layout



Last lab: GIS Final Exam

The unzipped themes are as follows:

Halibut---locations in longitude/latitude NAD27 of halibut on bottom.

Depth_Contours---A line theme of depth to ocean bottom contours in UTM zone 6, NAD27.

Use ArcGIS to fill in the following table:

Month	Mean Depth
January	
February	
March	
April	
May	
June	
July	
August	

Outline your conceptual solution steps:

The tidal lines are in UTM, Zone 6, NAD27.

The shorebird points are in longitude/latitude, NAD27

Determine the mean distance to the low tide line for the following species

	Mean Distance (m) to Low Tide Line
Black Ostercatcher	
Dunlin	
Ruddy Turnstone	