Clipping Land Cover Data to an Area of Interest in ArcGIS 10.x

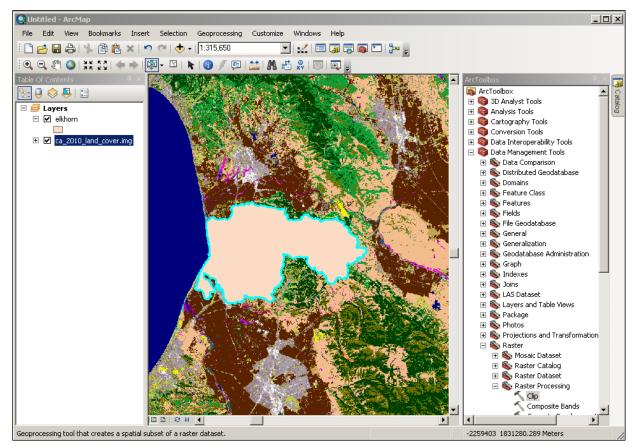
Coastal Change Analysis Program (C-CAP)

NOAA Coastal Services Center (843) 740-1200 www.csc.noaa.gov

Clip (Basic ArcGIS)

Basic ArcGIS can only clip a raster to the geometry of an area of interest from a vector polygon.

- 1. Identify raster land cover data.
- 2. Identify the feature (vector) boundary for the area of interest.



- 3. ArcToolbox > Data Management Tools > Raster > Clip
 - a. Input Raster:
 - b. Output Extent:
 - c. Check the box next to:
 - d. Output Raster Dataset:
 - e. NoData Value:
 - f. Check the box next to:
 - g. Then:

- feature boundary
- Use Input Features for Clipping Geometry
- clipped raster land cover

raster land cover

0

ОК

- Maintain Clipping Extent

Clip	
Input Raster	Clip
ca_2010_land_cover.img	
Output Extent (optional)	Creates a spatial subset of a raster, including a raster
elkhorn 🗾 🖻	dataset, mosaic dataset, or
Rectangle Y Maximum 1848934.999993	image service layer.
X Minimum X Maximum -2257614.999999 -2221855.000001	
Y Minimum 1826654.062506	
Use Input Features for Clipping Geometry (optional)	
Output Raster Dataset	
C:\C-CAP\ElKhorn_2010_C-CAP.img	
NoData Value (optional)	
Maintain Clipping Extent (optional)	~
OK Cancel Environments << Hide Help	Tool Help

ArcGIS Help for Raster Clip

ArcGIS 10.x Help > Desktop > Geoprocessing > Tool Reference > Data Management toolbox > Raster toolset > Raster Processing toolset > Clip

Extract by Mask (Spatial Analyst)

ArcGIS with Spatial Analyst can clip a raster to the geometry of an area of interest from a vector polygon or raster data.

- 1. Identify raster land cover data.
- 2. Identify the vector or raster boundary for the area of interest.
- 3. ArcToolbox > Spatial Analyst Tools > Extraction > Extract by Mask

CExtract by Mask	
Input raster	Extract by Mask
ca_2010_land_cover.img	
Input raster or feature mask data	Extracts the cells of a raster that correspond to
Elkhorn_boundary.img	the areas defined by a
Output raster	mask.
C:\C-CAP\Elkhorn_2010_C-CAP.img	
	Y
OK Cancel Environments << Hide Help	Tool Help

ArcGIS Help for Extract by Mask (Spatial Analyst)

ArcGIS 10.x Help > Desktop > Geoprocessing > Tool Reference > Spatial Analyst toolbox > Extraction toolset > Extract by Mask