

Performing a Batch Clip on Vector and Raster Data

Heath Brackett
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Purpose & Objectives

- ☐ Study areas smaller than original datasets
 - ☐ Clip all datasets into same folder
 - ☐ Raster and vector use different tools
 - Vector
 - ☐ Analysis→Clip tool
 - Raster
 - ☐ Spatial Analyst→Extract by Mask tool
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ArcObjects and Shell Object

- ❑ IGeoProcessor interface
 - Allows access to ArcToolbox toolset
 - Uses VarArray to pass parameters
 - ❑ Dynamic array of type Variant
 - ❑ Does not require Redim statement
 - ❑ IVariantArray interface
 - ❑ Shell and Folder Objects
 - Microsoft Shell Controls
 - Similar to GxDialog and GxObject, but accesses folders
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Other ArcObjects Interfaces

- ❑ IMxDocument, IMap
 - ❑ IDataset
 - Generic dataset object interface
 - ❑ Can hold raster or vector
 - ❑ IFeatureLayer
 - Accesses feature shape
 - ❑ IRasterLayer
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Factors to Consider

- ☐ IBasicGeoprocessor bug
 - ☐ Clip layer must be polygon
 - ☐ Get layer type before clip
 - ☐ Raster output name < 13 characters
 - ☐ TIFF files include .tif in file name
 - ☐ Unforeseen problems...
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References

- ☐ ESRI Developer's Network
 - *Using Geoprocessing Tools (pdf)*
 - ☐ ArcScripts Webpage
 - ClipAllLayers.frm, Wang, Lihe 2002
 - ☐ *Programming ArcObjects with VBA: A Task Oriented Approach*, (2nd Edition), Chang, Kang-Tsung, CRC Press 2007
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