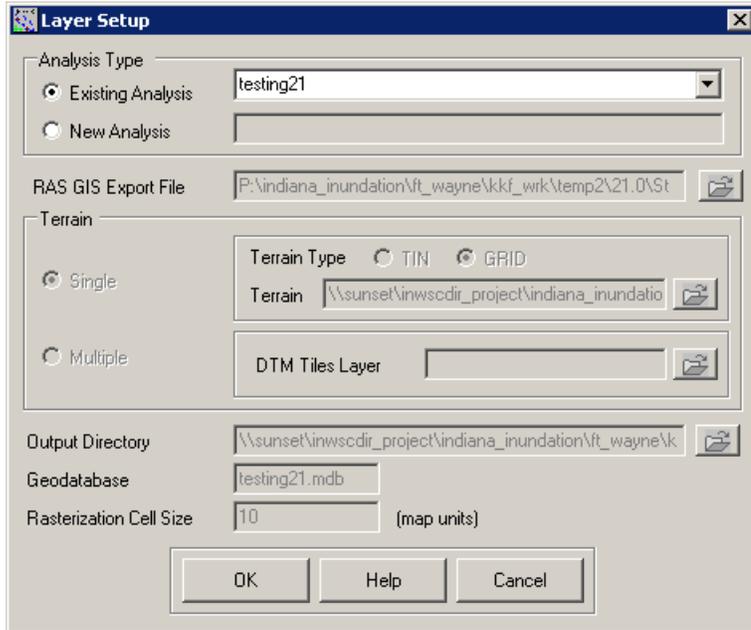
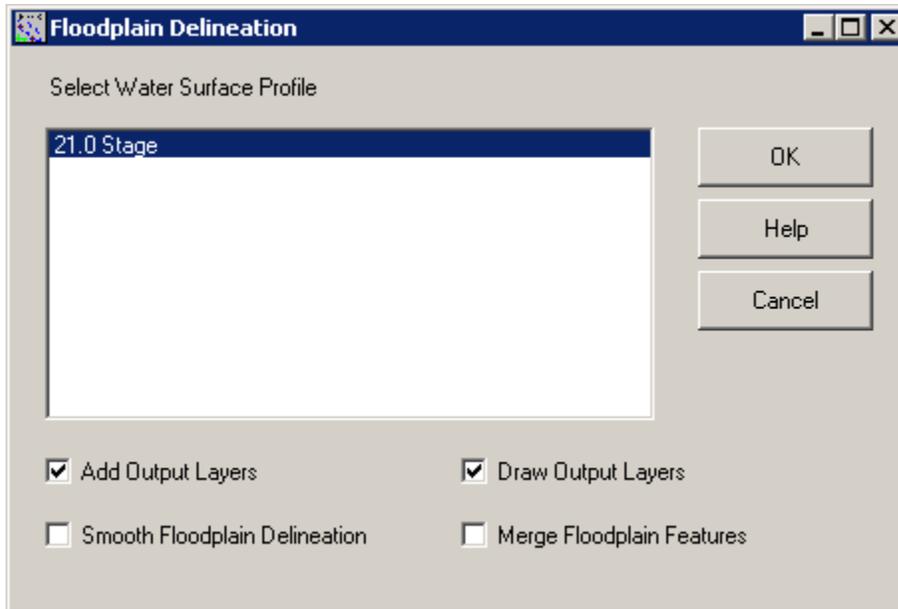


MAP EDITING PROCEDURE FOR FIM-IN.

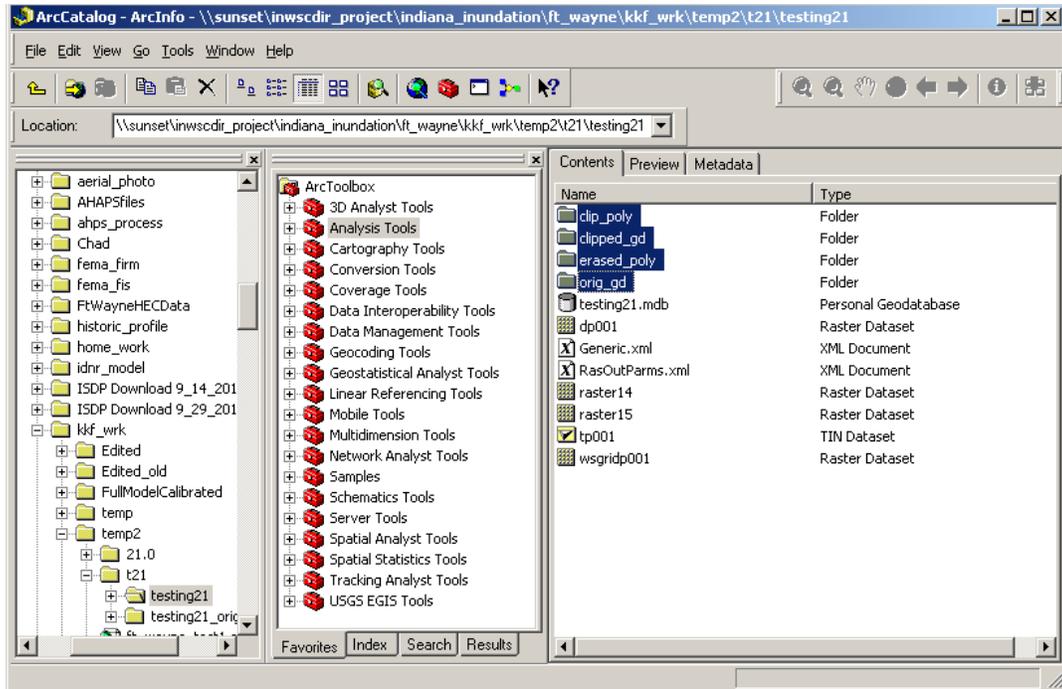
- 1) In "RAS Mapping > Layer Setup" window, make note of the output directory.



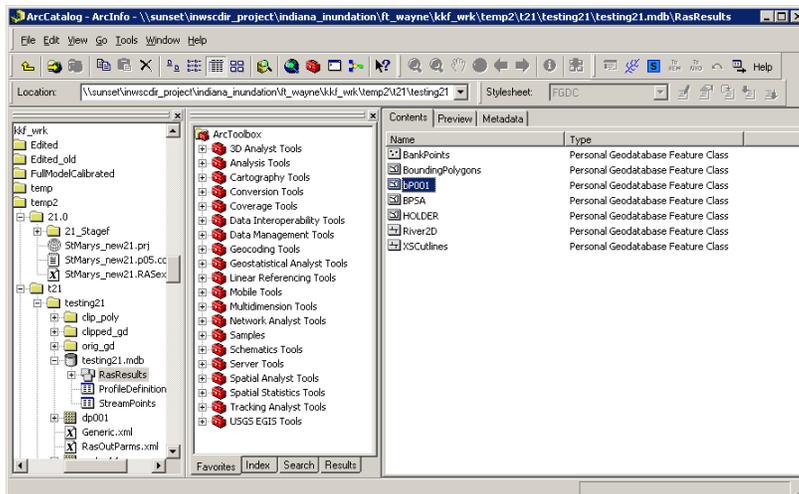
- 2) Follow the rest of the RAS mapping steps as usual. In "Floodplain Delineation" window, uncheck the "Smooth Floodplain Delineation" box to get polygons with exact outlines of depth grids.



- 3) In the same output directory as in "Layer Setup" window, create working folders/directories as shown below. (Recommend making a copy of this directory first before modifying contents)



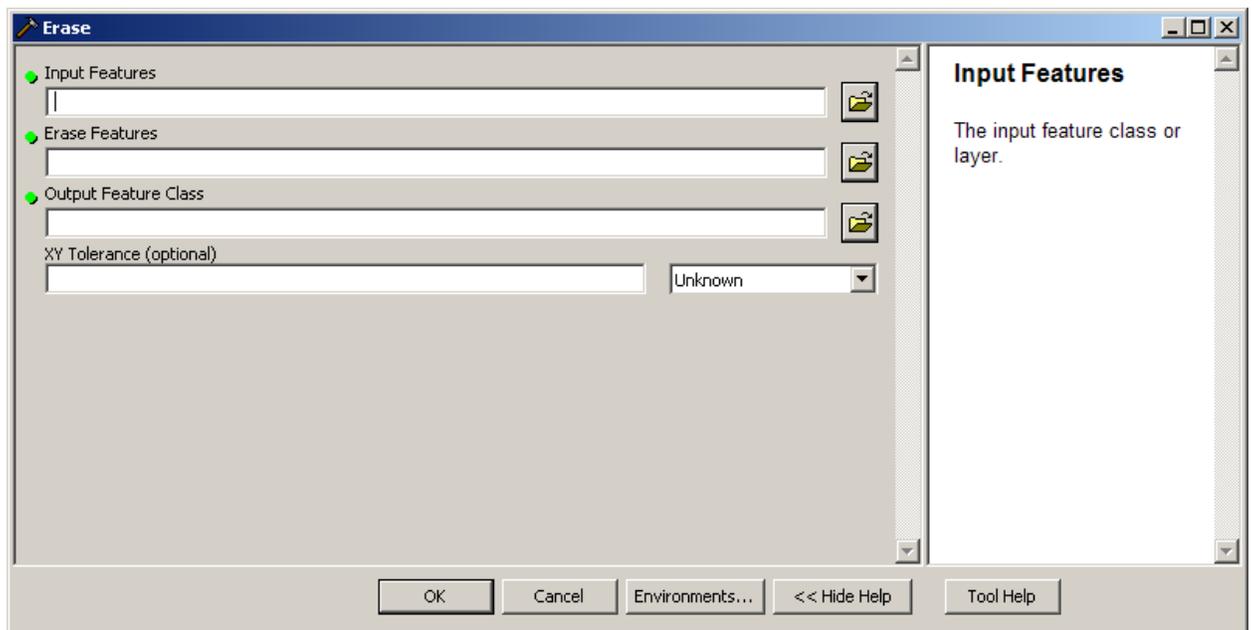
- 4) Copy all of the depth grids (dp00x) to "orig_gd" folder. As you copy the depth grids, rename the grids as "elev_feet_tenth" (NWS requirement, in WSEL NAVD88) format (i.e. elev_765_5).
- 5) Export/copy all of the flood extent polygons to shapefiles (in xxxx.mdb > RasResults > bp00x; by right clicking and export to shapefile) to the "clip_poly" folder. As you export the polygons, rename the polygons as "elev_feet_tenth.shp" (NWS requirement, in WSEL NAVD88) format (i.e. elev_765_5.shp).



For additional/detailed information on how to edit maps, please see the section 3.3 of the following document (http://water.weather.gov/ahps/NOAA_AHPS_Guidelines_Final_2011_v3.pdf).

- 6) In ArcMap, add shapefiles in "clip_poly" folder to edit them. First, select all small polygons (i.e. shape_area <= 401). Review these small polygons to make sure they should be deleted. After the review, delete these small polygons. Continue editing the polygons to delete unconnected polygons. Using FEMA DFIRM layer as a background/guide, continue editing the higher stage polygons to approximately match the DFIRM layer extent. As you continue to edit all of the polygons, be sure to check that the flood extent is consistent with lower and higher stage maps and that ponds and lakes are filled in correctly. **Also be sure to check the appropriate NWS AHPS website for the listing of the flood impact statements to ensure that each layer of maps match up well with the corresponding statements.**

- 7) **BRIDGE CLIPPING IS NO LONGER REQUIRED (ACCORDING TO IWRSS REQUIREMENTS TEAM MEETING NOTES ON 20130426).** On the trib, consider bridges as a study limit and edit/clip the polygon shapefile to the first bridge upstream from the mouth of trib. If there are study limits to set, then erase the study limit polygons from the shapefiles in "clip_poly" folder by using Erase (Analysis) tool as shown below. Parameters for Erase tool are listed here. Input Features; polygon shapefiles in "clip_poly", Erase feature; polygon shapefile of study limits, Output Feature Class; set the folder to "erased_poly" then name the shapefile in elev_feet_tenth format as before. (in ArcGIS 9.3, this tool can be batched using "command line" window and text file editor)



- 8) Lower and Higher stage map edits: Load all of the polygon shapefiles in "erased_poly" and rearrange the order of the layers from low stage maps on the bottom to high stage maps on top

in the "table of content" window in ArcMap session. Starting with the a pair of high stage maps, compare the extents of the maps if lower stage map is larger than higher stage map. If this is the case, ALWAYS edit/clip the portion of the lower stage map to be consistent with higher stage map. Continue editing next set of maps as you go down the list.

- 9) When all of the edits are finished, clip the depth grids in "orig_gd" folder with the polygons in "erased_poly" folder for each stage maps as shown below. Parameters for Clip (Data Management) tool are listed here. Input Raster: depth grid in "orig_gd"; Output Extent: polygon in "erased_poly"; check "Use Input Features for Clipping Geometry"; Output Raster Dataset: set folder to "clipped_gd" with name format as "elev_feet_tenth" without file extension to create ESRI grid. (in ArcGIS 9.3, this tool can be batched using "command line" window and text file editor)

