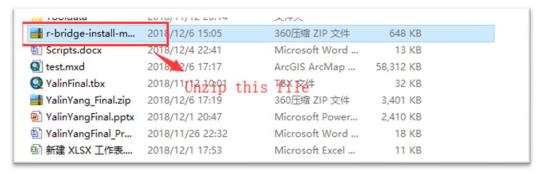
Please install R-bridge in ArcMap first

This tool will allow you use R script in ArcMap

Installation

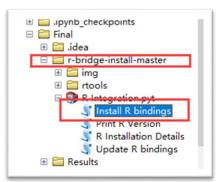
- https://github.com/R-ArcGIS/r-bridge-install/archive/master.zip
- Full screen to play the animation

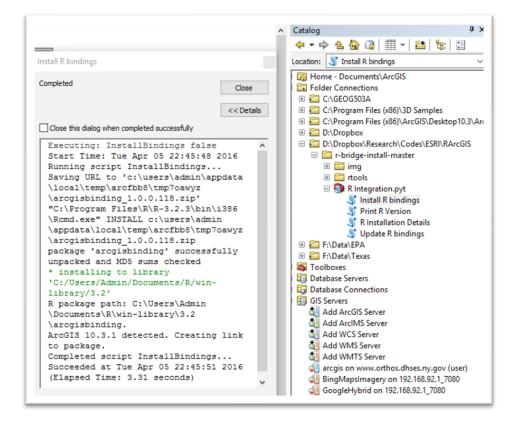


Run ArcGIS as administrator (right click start menu)

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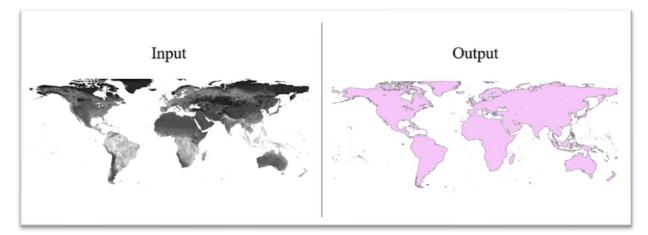
expand it in ArcMap, and then double click Install R bindings

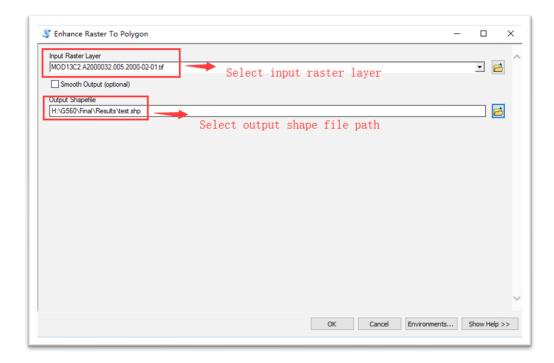




1. Enhance Raster to Polygon

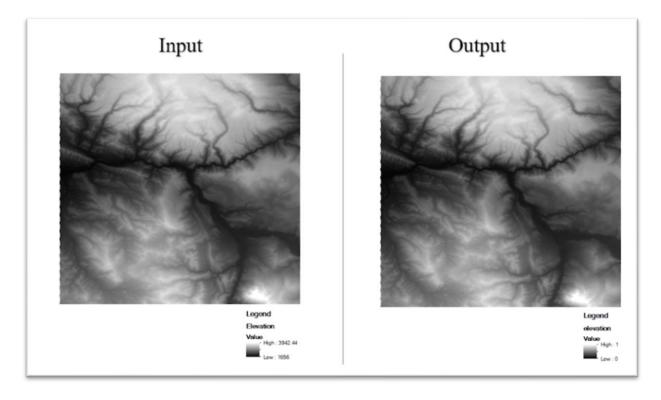
This tool derived from one ArcMap built-in tool named Raster to Polygon, but this tool would allow user input Non-Int type Raster Data.





2. Normalize Raster

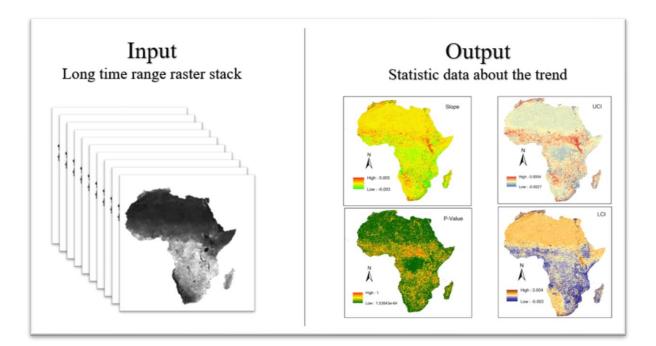
This tool will reset the value range of input raster data between 0 to 1. And this tool also allows user input multiple raster layers or one raster dataset which contains numerous raster files.

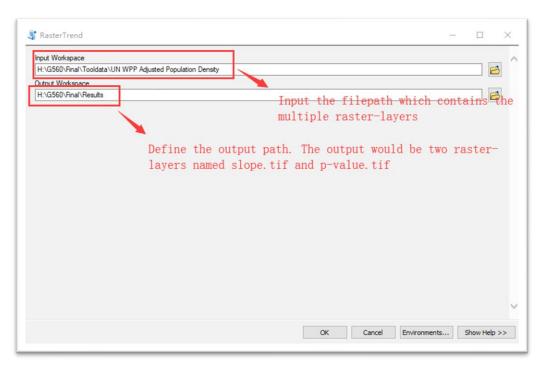


	<u>-</u>	-
Bevation Could	ld input multiple raster layer	+ ×
With Missing Value (optional)	Check out if those layers have missing value	
H:\G560\Final\Results	· · · · · · · · · · · · · · · · · · ·	2
Composite Rasters (optional)	Output file workspace	
	Output file workspace The output file name will be same as the original one	
Composite Rasters (optional) Composite Output Raster (optional)	The output file name will be	

3. Raster Trend

Use Mann Kendall-test method to calculate the input time-series Raster Dataset pixel by pixel. The output Raster file will contain the slope, intercept, p-value three Layers.





4. NetCDF to Raster

This tool will divide the input NetCDF file (Such as Grace Data) to multiple Raster files. Those output Raster Layers will be named by the Created time provided by NetCDF file.

Input	Output
ayer Properties X	2000-04-1 2000-05-1 2000-05-1 2000-1
General Source Extent Display Symbology NetCDF Time	7.53 0.53 6.53 5.53 6.53 5.51 6.51 6.51 6.51 6.51 6.51 6.51 6.51
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Y Demension: lat V	2004-07-1 2004-07-1 2004-10-1 2004-11-1 2004-12-1 2005-02- 667 567 557 557 557 557 557 557 557 557
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Vertical Dimension:	2007-11-1 2007-12-1 2008-07-1 2008-07-1 2008-08-1008-08-1008-08-1008-08-1008-08-1008-08-1008-08-1008-08-1008-08-1008-08-1008-0
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W2 R34 (2010)	200-05-1 200

5. Raster Setting Environment

This tool allows the user to set one Raster Layer as default and reset the environment variables (Cell size, Spatial Reference, Extend) of the rest of Raster Files to same as selected Layer.

input Raster Layers (optiona	
H:\G560\Final\Toolda H:\G560\Final\Toolda	ta \UN WPP Adjusted Population Density\gpw_v4_population_density_adjusted_to_2015_unwpp_country_totals_rev10_200 ta \UN WPP Adjusted Population Density\gpw_v4_population_density_adjusted_to_2015_unwpp_country_totals_rev10_200 ta \UN WPP Adjusted Population Density\gpw_v4_population_density_adjusted_to_2015_unwpp_country_totals_rev10_201 ta \UN WPP Adjusted Population Density\gpw_v4_population_density_adjusted_to_2015_unwpp_country_totals_rev10_201
	select multiple raster layers as the input or
	select one folder contains those layers as the input
Defult Raster Layer	
H:\G560\Final\Tooldata\L	N WPP Adjusted Population Density\gpw_v4_population_density_adjusted_to_2015_unwpp_country_totals_rev10_2020_30_s
Output Workspace	·
H:\G560\Final\Tooldata	
	select one raster layer as the defult one