Wildfire Incident Export Script (Raftis Update)

### Original Export Script Created by Paul Hoefler

# First Time Set Up

The first time you set up the script you will need to define variables for folder locations, incident information, and export settings. Best practice for inputting any variable is to copy and paste the value instead of typing it in. This reduces the likelihood of typos and script errors.

### FOLDER LOCATIONS #######################################

project\_folder = r'C:\Users\Admin\FireNet\2021\_ORUPF\_DevilsKnob - 2021\_DevilsKnob\projects'

export\_folder = r'C:\Users\Admin\FireNet\2021\_ORUPF\_DevilsKnob - 2021\_DevilsKnob\products'

###########################################################

Copy your folder locations directly from your file directory and paste it between the ‘ ‘. If you are going to be splitting up the script between multiple GISS with separate computers, each user will need to update the folder locations for their specific computer.

The incident information will be used for naming the output product files. An example product output name is ‘pilot\_18x24\_port\_20210929\_2021\_DevilsKnob\_ ORUPF000450\_0930\_geo’ where the highlighted text is derived from these variables.

### INCIDENT ################

inc\_name = 'DevilsKnob'

idn = 'ORUPF000450'

inc\_year = '2021'

###########################

### SETTINGS###########

beep = 'END' #Play sound file ... 'PDF': after each PDF; 'END': only at the end; no beeps: ''

date\_for\_override = '' # Set this to 'MMDD' to override the date for variable

#Prefix/Suffix in case you need them. Use ‘’ if not needed

print\_prefix = ''

print\_suffix = '\_img'

georef\_prefix = ''

georef\_suffix = '\_geo'

dpi = 150

img\_qual = 'NORMAL'

compress\_vect = True

image\_comp = 'ADAPTIVE'

embed\_fonts = True

layer\_attr = 'NONE'

jpg\_comp = 50

clip = False

embed\_color = True

#############################

The settings variables apply to the entire script and all exports. The beep variable refers to a sound file that can play at the end of each export, when the script finishes, or not at all. Date\_for\_override overrides the automatic process for assigning a date to the product output name, highlighted below. ‘pilot\_18x24\_port\_20210929\_2021\_ DevilsKnob\_ ORUPF000450\_0930\_geo’ This is useful if you are re-exporting for a previous date.

The prefix/suffix variables allow you to differentiate which product outputs are image .pdfs for printing and which are georeferenced .pdfs for Avenza use.

The export settings conform to those of the exportToPdf function from the arcpy mapping module. More info on these settings can be found [by clicking here](https://pro.arcgis.com/en/pro-app/latest/arcpy/mapping/layout-class.htm#GUID-364B5333-BBFA-48E9-B3A7-59C7DA6DC099).

# Setting Up Items to Export

Each layout that you want to export needs to be defined in the export\_jobs dictionary. Each export job is stored as a tuple, containing variables that will be referenced by the script. This part is especially important to copy and paste your values to avoid typos and script failures. If you no longer need to export a particular layout you can put a # at the beginning of the line and this will prevent it from exporting. To resume exporting simply remove the #. The export\_jobs part of the script is shown below with some examples.

#\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### SET ITEMS TO EXPORT BELOW ##########################################

# export\_jobs = [('APRX','LAYOUT','OutputNAME','[PRINT|GEOREF|BOTH]'],[SINGLE|SERIES],'MAP\_NAME', 'MAPFRAME\_ELEMENT\_NAME','TITLE\_ELEMENT\_NAME','TITLE\_TEXT'),]

\*\*Only fill out 'MAP\_NAME','MAPFRAME\_ELEMENT\_NAME','TITLE\_ELEMENT\_NAME','TITLE\_TEXT'if the map is a series\*\*

#\*\*\*\*Single\*\*\*\*\*\*\*

('pilot\_2021\_DevilsKnob\_ORUPF000450\_ArcPro\_2\_7.aprx','pilot\_18x24\_port\_DevilsKnob\_ORUPF000450','pilot\_18x24\_port\_','BOTH','SINGLE'),

#('progression\_PanunTools\_2021\_DevilsKnob\_ORUPF000450\_ArcPro\_2\_7c.aprx','prog\_36x48\_port\_DevilsKnobComplex\_ORUPF000450','progression\_port\_','BOTH','SINGLE'),

#\*\*\*\*Series\*\*\*\*\*\*\*

('DIV\_Tiles\_2021\_DevilsKnob\_ORUPF000450\_ArcPro\_2\_7.aprx','Ops\_DIV\_Map\_Packet','Ops\_DIV\_Map\_Packet\_18x24\_land','PRINT','SERIES','Ops\_DivTiles\_2021\_DevilsKnob','\*Main\*','Title','OPS - '),

#('Repair\_2021\_DevilsKnob\_ORUPF000450\_ArcPro\_2\_7.aprx','Repair\_Tiles','SuppressionRepair\_Tiles\_ArchC\_land','GEOREF','SERIES','RepairTiles\_2021\_DevilsKnob','\*Main\*','Title','Suppression Repair '),

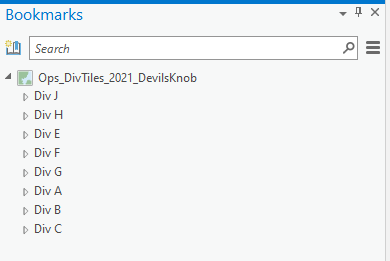
] ##DO NOT DELETE THIS ]!##

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Note that map series require more variables to be filled out. The appendix has images showing where you can find each of these variables in your map project.

|  |  |  |
| --- | --- | --- |
| Variable | Description | Example |
| APRX | The name of the project file (AKA aprx). Must have the .aprx at the end for the script to run. | 'DIV\_Tiles\_2021\_ DevilsKnob \_ORUPF000450\_ ArcPro\_2\_7.aprx' |
| LAYOUT | The name of the layout file in the project. | 'Ops\_DIV\_Map\_Packet' |
| OutputNAME | What you want to name the product output. ‘pilot\_18x24\_port\_20210929\_2021\_ DevilsKnob\_ ORUPF000450\_0930\_geo’ | 'Ops\_DIV\_Map\_Packet\_ 18x24\_land','PRINT' |
| [PRINT|GEOREF|BOTH] | Pick one of these three values. PRINT exports as an image .pdf that is not georeferenced, but is better for printing. GEOREF exports as a georeferenced .pdf for use with Avenza. BOTH exports one of each. | 'PRINT' |
| [SINGLE|SERIES] | Pick one of these two values. SINGLE is for a standard layout that is not part of a map series. SERIES is for a map series based on bookmarks, with individual .pdf exports for each bookmark. | 'SERIES' |
| MAP\_NAME | The name of the map file in the project. | 'Ops\_DivTiles\_ 2021\_DevilsKnob' |
| MAPFRAME\_ELEMENT \_NAME | The name of the map frame from the layout contents that contains your main map with bookmarks. | '\*Main\*' |
| TITLE\_ELEMENT\_NAME | The name of the title text element that should be updated with each bookmark name. | 'Title' |
| TITLE\_TEXT | Type the title text that you want shown on the map, it will have the bookmark name appended to the end of it. Can be left blank (like this ‘’) if you want just the bookmark name to be the title. | 'OPS - ' |

# A Note on Map Series

 The function used to export a map series relies on more variables than the one used to export a single map. As such it is important to have your project set up correctly for the map series function to work. The first thing you will want to do is set up bookmarks for each map that you want to produce, and name them well. To the right are the bookmarks used for a division tiles map packet as an example of what your project should look like.

The next element that needs attention is the title text element. This should be formatted and placed based on the full title you plan to have. It will automatically update the correct title text to go with each bookmark. All elements of the layout (eg. Inset, legend) will update with each bookmark without intervention.Appendix