

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.

```
### INCIDENT #####
inc_name = 'DevilsKnob'
idn = 'ORUPF000450'
inc_year = '2021'
#####
```

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.

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](#).

```
### 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
#####
```

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_18
x24_port','BOTH','SINGLE'),
#('progression_PanunTools_2021_DevilsKnob_ORUPF000450_ArcPro_2_7c.aprx','prog_36x48_port_DevilsKnobCo
mplex_ORUPF000450','progression_port','BOTH','SINGLE'),

####Series####
('DIV_Tiles_2021_DevilsKnob_ORUPF000450_ArcPro_2_7.aprx','Ops_DIV_Map_Packet','Ops_DIV_Map_Packet_18
x24_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 ]!##
#####
```

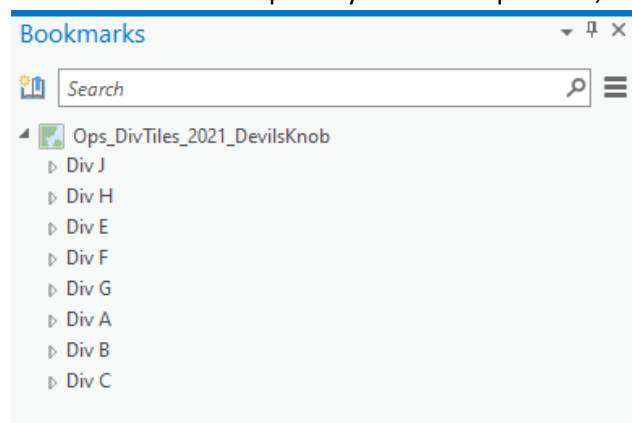
Note that map series require more variables to be filled out. The appendix has images showing where you can find each of these variables in your map project.

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 - '

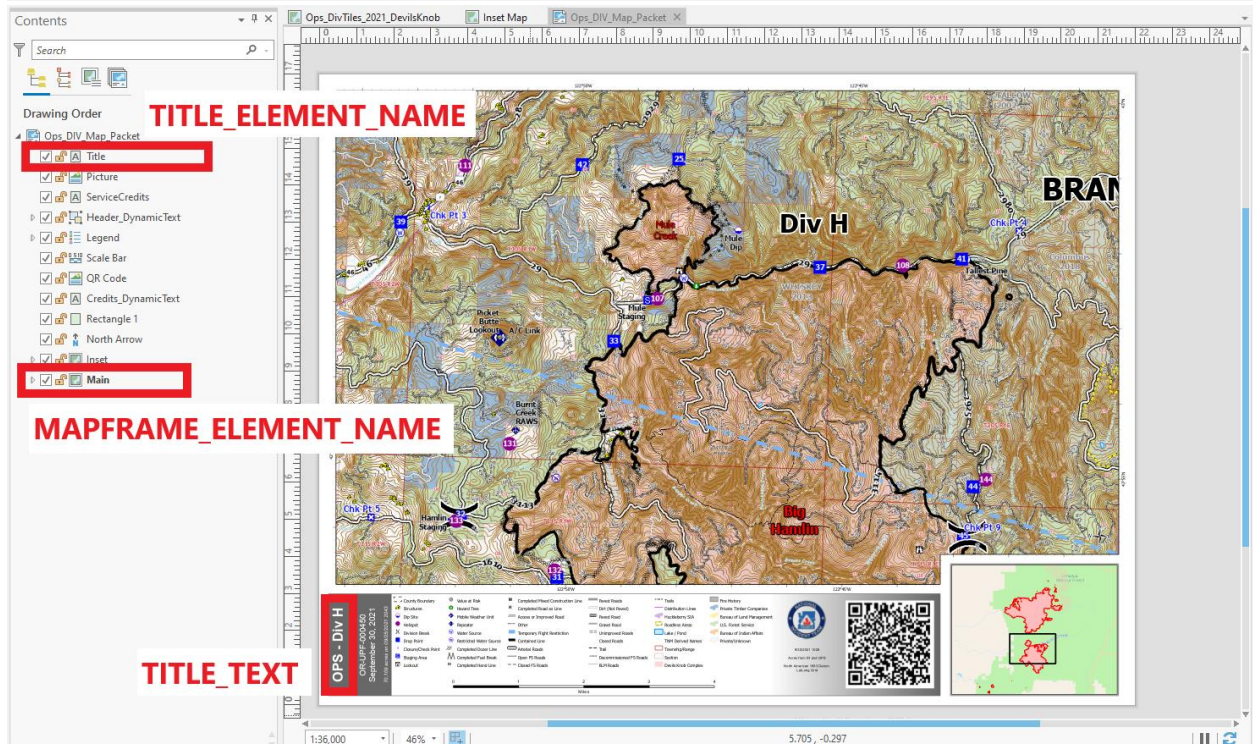
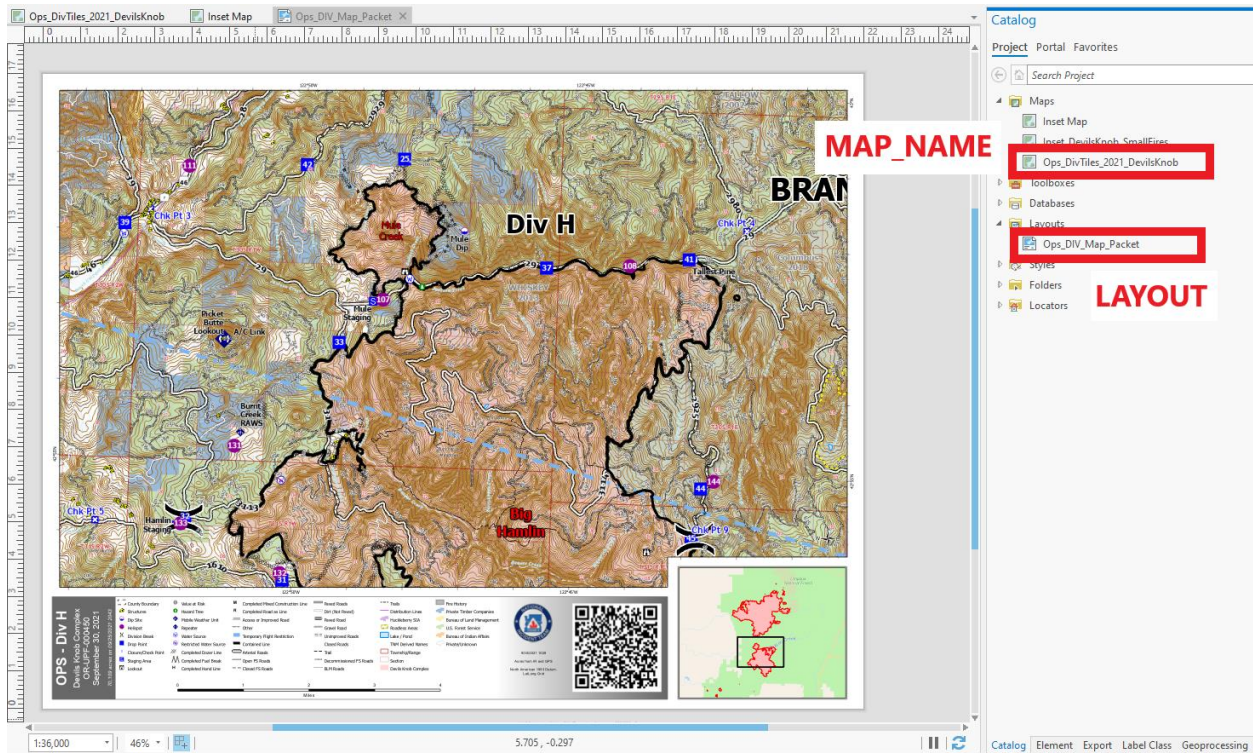
A Note on Map Series

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



FileHomeShareView

←→↑>FireNet>2021_ORUPF_DevilsKnob - 2021_DevilsKnob > projects

project folder

Search projects

Quick access

Desktop

Downloads

Documents

Pictures

20210930

CTR

projects

Python

FireNet

OneDrive - Personal

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

Network

Name	Status	Date modified	Type	Size
.backups	✓	9/30/2021 11:25 AM	File folder	
Archive	✓	9/29/2021 3:57 PM	File folder	
backups	✓	9/22/2021 5:02 PM	File folder	
briefing_2021_DevilsKnob_ORUPF000450_ArcPro_2_7.gdb	✓	9/30/2021 11:56 AM	File folder	
ImportLog	✓	9/30/2021 11:11 AM	File folder	
Index	✓	9/30/2021 7:16 AM	File folder	
Ops_2021_DevilsKnob_ORUPF000450_ArcPro_2_7.gdb	✓	9/30/2021 11:56 AM	File folder	
projects_old	✓	9/30/2021 11:56 AM	File folder	
Accountable_Property_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/23/2021 4:54 PM	ArcGIS Project File	3,540 KB
Accountable_Property_2021_DevilsKnob_ORUPF000450_ArcPro_2_7_backup	✓	9/27/2021 4:48 PM	ArcGIS Project File	3,570 KB
AirOps_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/28/2021 8:57 AM	ArcGIS Project File	9,564 KB
briefing_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/28/2021 9:41 AM	ArcGIS Project File	2,525 KB
briefing_2021_DevilsKnob_ORUPF000450_ArcPro_2_7.tbx	✓	9/29/2021 8:52 PM	TBX File	4 KB
Closure_EVAC_Ops_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/21/2021 1:39 PM	ArcGIS Project File	9,984 KB
Comms_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/24/2021 8:27 PM	ArcGIS Project File	568 KB
DecisionSupport_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/21/2021 2:11 PM	ArcGIS Project File	2,632 KB
DIV_Tiles_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/29/2021 8:34 PM	ArcGIS Project File	940 KB
Forest_Closure_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/23/2021 8:24 AM	ArcGIS Project File	10,190 KB
Hunting_Closure(2)_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/26/2021 7:18 AM	ArcGIS Project File	10,179 KB
Ops_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/28/2021 8:58 AM	ArcGIS Project File	3,412 KB
Ops_2021_DevilsKnob_ORUPF000450_ArcPro_2_7.tbx	✓	9/29/2021 7:49 PM	TBX File	4 KB
ownership(new)_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/30/2021 11:25 AM	ArcGIS Project File	3,697 KB
ownership_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/26/2021 9:51 AM	ArcGIS Project File	2,799 KB
pilot_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/28/2021 10:18 AM	ArcGIS Project File	2,499 KB
PIO_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/28/2021 9:47 AM	ArcGIS Project File	2,673 KB
progression_PanunTools_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/27/2021 7:18 PM	ArcGIS Project File	750 KB
Repair_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/29/2021 9:43 PM	ArcGIS Project File	1,481 KB
trans_DevilsKnob_2021_ORUPF000450_ArcPro_2_7	✓	9/28/2021 12:07 PM	ArcGIS Project File	3,229 KB
Vicinity_2021_DevilsKnob_ORUPF000450_ArcPro_2_7	✓	9/21/2021 9:03 AM	ArcGIS Project File	14,873 KB

29 items1 item selected939 KBAlways available on this device

APRX