**Troubleshooting update scripts**

**RM682**

**Some data sources updated**

Orth – common

Duded impact - gdb

Waterbody – Common

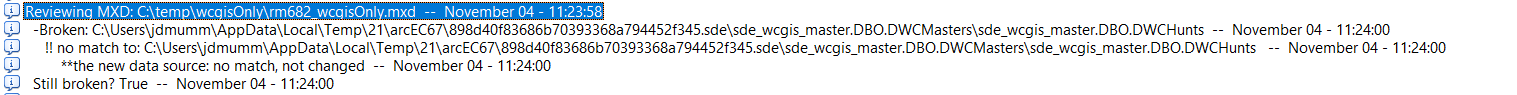
Flowline – Common

And othethes but non from wcgis

**But not others**

Hunts

Subunits



Oddly orig rm682 mxd is looking for wcgis in appdata

*C:\Users\jdmumm\AppData\Local\Temp\21\arcC567\898d40f83686b70393368a794452f345.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts*

Broken ss doesn’t have any *C:\Users\jdmumm\AppData\Local\Temp\21\* files, only …\Temp\16, including this near mtch

*C:\Users\jdmumm\AppData\Local\Temp\16\arc6107\898d40f83686b70393368a794452f345.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts*

*Line 382*

Manually edited highlighted above in out.csv and worked to fix hunts path

Trouble is running the brokenlink tool the next day I get this as the broken link:

*C:\Users\jdmumm\AppData\Local\Temp\25\arcFA54\898d40f83686b70393368a794452f345.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts*

… and then a few minutes later copying the mxd to a new folder I get this: C:\Users\jdmumm\AppData\Local\Temp\27\arc1786\898d40f83686b70393368a794452f345.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

Running again in same folder, broken path stays the same ie temp27\arc1786

Running again on copy in the same folder path stays the same : 27

Copying from network to local and running again a few minutes later still 27

But after resigning into windows changes to 29

C:\Users\jdmumm\AppData\Local\Temp\29\arcC4C8\898d40f83686b70393368a794452f345.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

Soloutions:

Incorporate wildcards into script

11/6/20

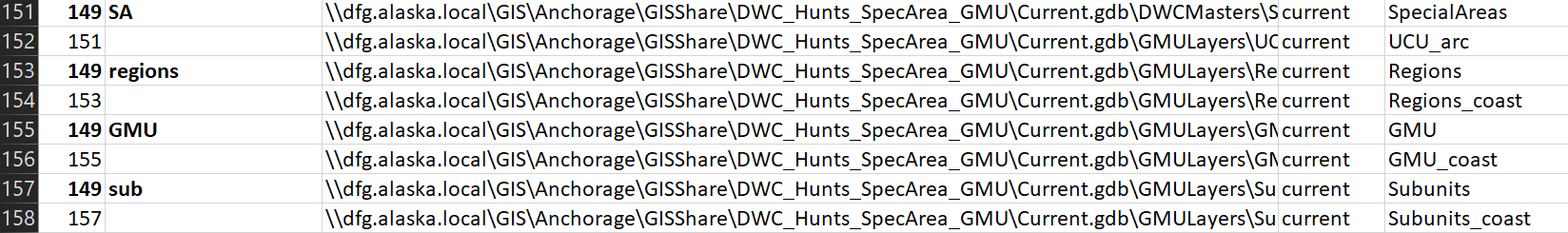
Is it only a problem for those pointing to sally’s obsolete version?

Try again with rm682 – do one of the two hunt layers work?

A – The other hunt layer is default and wasn’t broken to begin with.

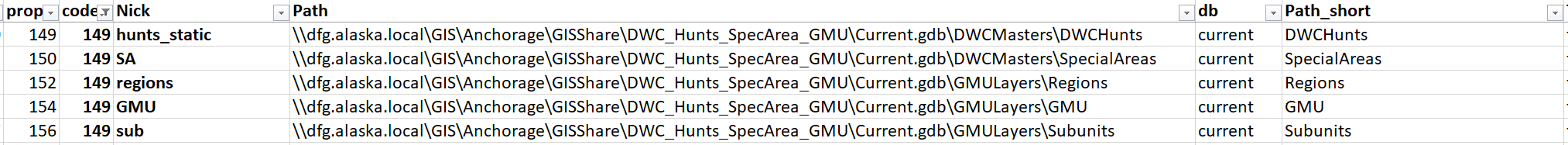
Why didn’t subunits get fixed.

Codes messed up on inventory workingfor codes 149 to 156



Fix it inventory, then on broken

Review where code 149 was used



Fixed these codes and reoutput rosetta.csv, now 4 broken links remain in rm682 after running.

ST’s version of hunts

Road

Railroads

NPS Park Bnd

Tried ds123, for some reason arctic circle is causing terminal error,

Odd, because can manualy update data source.

Is it related to pgdb? No. tried exporting to shp, runs but link remains broken. Fix broken link

\*\*Removed from brkn link table, i.e. set to review.

11/9/20

Try running on a handful of maps.

Terminal errors?

Which are common data sources still required.

Also, does hunts layer update so long as not non existnent version?

CA and CUA aren’t updating for some reason

These both should be from the Special Area FC of wcgis

Apparently the link is pointing to userdata/temp, eventhough default version.

Seems arc defaults to looking in userdata temp, for some datasources that no longer exist.

The trouble is the specifics of this temp directory change with every windows login, so using one perm rosestta file is challenging. Shifting target. Broken link keeps changing.

Solutions:

Manually edit rosetta file before running each session. To current temp directory.

Change arcmap settings to static location for broken links

Incorporate wildcards

Another option could be to use a ReplaceDataSource instead of findAndRepalceWorkspace

11/10/20

First solution worked well. Used find and replace on rosetta file to update temp folder to current temp folder for windows session. Find C:\Users\jdmumm\AppData\Local\Temp\16\arc6107\ and replace with xx\arcxxxx

11/16/20

Could eliminate shifting two digit subdirectory under Temp by changing a windows setting on the jnu server. Computer configuration, admin templates, windows componens, terminal services, temporary folder, do not use temp folder per session. Or running on local machine, because these two digit subfolders are not created on my own machine. <https://getadmx.com/?Category=Windows_10_2016&Policy=Microsoft.Policies.TerminalServer::TS_TEMP_PER_SESSION>

<https://devblogs.microsoft.com/oldnewthing/20110125-00/?p=11673>

<https://docs.microsoft.com/en-us/previous-versions/windows/it-pro/windows-server-2003/cc759190(v=ws.10)?redirectedfrom=MSDN>

However, even if eliminate 2 digit subfolders, (either with setting change on jnu or using local machine) the name of the next folder changes with every arc login. E.G. in above the arc6107 would change to something like arc97c5 with after restarting arcCatalog. Also appears to differ between map and arc.

SO, it’s becoming more evident that solution to these shiftinging file names will involve wildcards.

Next steps:

Would be nice to nail down exactly which layers are pointing to these temp folder.

On rm682, it’s only one of the hunt layers – the one point to sally’s version, which no longer exists.

On comprehensive, mstly hunts and special areas, but also some common. All SDE

Could experiment to see exactly which types of broken links point here. – worth the time?

New map, sde connection files in temp place.

Move connection files.

Does broken link point to temp folder?

No broken link after moving sde.

MXD must store the db info and not need the connection file after initializing.

But can create broken link sde by pointing to version, then deleting version. This broken link points to that temp folder under usersdata. C:\Users\jdmumm\AppData\Local\Temp\42\arc3B69\f77c58df8bad8cd20d880ce2c92a1a53.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

Answer: the broken paths pointing the ephemeral appdata temp folder are created when a map is looking for an version of an sde that no longer exists.

**Incorporate Wildcards to filepaths.**

Replace highlighted portions with wildcards in the broken path field.

C:\Users\jdmumm\AppData\Local\Temp\16\arc6107\08388ba868fa00edd9a2e0330e37366b.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

Try v simple case first.

Determine which function is being used.

246 lyr.findAndReplaceWorkspacePath(lyr.dataSource, updatePath, False)

261/284 lyr.replaceDataSource(newDSPath, newType, newDSName, False)

Does it accept wildcards in input parameters?

If not initially, may need to use wrapper function around/in text string – glob?

Above functions don’t appear to be

Set up super simple test case

Ingredients

Mxd

Shapefile

Py test script

Eventually try with multiple folders etc.

Tests for match as:

**if row[3] in searchOldPath:**

**if brokenPath in ss is in the layer’s data source**

Test for match (and whether to use new path) is looking to see if text in the csv **broken link column** is **subset** of the **layer’s datasource.** Not exact match, so, ought to be able to just truncate text in ss

Try with simple test case. First truncating, then possibly wildcards if needed. For example in example above:

C:\Users\jdmumm\AppData\Local\Temp\16\arc6107\08388ba868fa00edd9a2e0330e37366b.sde\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

Could be shortened to sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts

TRY IT!

IT WORKED!!!!

Truncate the old paths in r with gsub() substituting all of this :\Users\jdmumm\AppData\Local\Temp\16\arc6107 for null. Optionally, may want to remove all the 36 digit .sde or only keep portion past the X’th backslash etc. Think some more about this.

Use an anchor sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts$

Or wildcard \*\sdewcgis\_master.DBO.DWCHunts

Possibly with gsub

Gsub (DF$oldpath, ‘\*\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.DWCHunts, ‘sde\_wcgis\_master.DBO.DWCHunts)

Gsub (DF$oldpath, ‘\*\sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.SpecialAreas’, ‘sde\_wcgis\_master.DBO.DWCMasters\sde\_wcgis\_master.DBO.SpecialAreas’)

Not sure if we need to retain the either the 36digit temp .sde or the sde\_wcgis\_master.DBO.DWCMasters bit above. Think we could do away with both, the sde\_wcgis\_master.DBO.DWCMasters bit is the the dataset name I think which isn’t required. And the 36digt could probably do without.