Steps

1. /home/pj276/projects/ifl\_corridors/code/scripts/prepfor1\_6
   1. make\_fprep1\_6.py for 2000
      1. update forest cover
      2. prepare forest
      3. mosaic vrt
      4. aggregate
   2. make\_fprep1\_6.py for 2018
      1. update forest cover
      2. prepare forest
      3. mosaic vrt
      4. aggregate
2. /home/pj276/projects/ifl\_corridors/code/scripts/prepexp1\_6
   1. make\_exp1\_6.py for 2000
   2. make\_exp1\_6.py for 2018
3. /home/pj276/projects/ifl\_corridors/code/scripts/prepnn1\_0\_2000\_3
   1. make\_2000prepnn1\_0\_3.py
4. /home/pj276/projects/ifl\_corridors/code/scripts/prepnn1\_0\_2018\_3
   1. make\_2018prepnn1\_0\_3.py
5. /home/pj276/projects/ifl\_corridors/code/scripts/prepfor1\_6
   1. make\_fprep1\_6.py
      1. For getting loss year by year 2000 tree cover, need to delete existing lybytc2000 files if rerunning
      2. Change arguments in script
      3. Run hf2\_lossyear\_by\_tc2000 subscript
      4. Run hf2\_mosaic\_vrt subscript
      5. Run hf2\_aggregate\_rasters subscript

Code was run on a combination of desktop and the high performance computing cluster, Monsoon, at Northern Arizona University.

Can use hf2\_create\_urllist.py to get list of forest files for wget.

1. make\_frep1\_6.py (fprep1\_6 processes gfc1.6 2000-2018 data - reprojects, edge matches, resamples)
2. make\_exp1\_6.py
3. make\_2000prepnn1\_0\_3.py in prepnn1\_0\_2000\_3 directory
4. make\_2018prepnn1\_0\_3.py
5. hf2\_forest\_cover\_in\_corridors.py
   1. Subsets forest cover to areas where there was at least one corridor. Includes areas with 0% forest cover.
   2. creates fc in corridor rasters -> leads to hf2\_summarize\_fc\_in\_corridors\_by\_region.py
6. hf2\_collect\_corridor\_stats.py – concatenates patch pair csvs
7. hf2\_rasterize\_ifls.py
8. hf2\_summarize\_fc\_in\_corridors\_by\_region.py -> results go to hf2\_analyze\_fc.py
9. hf2\_mosaic\_cost\_surfaces.py
10. make\_postproc.py – runs country summaries
    1. hf2\_flux\_by\_country\_xx.py
    2. hf2\_fc\_noifl\_by\_country\_xx.py
    3. hf2\_lyby2000\_country\_stats\_xx.py
    4. hf2\_lyby2000\_country\_chull\_stats\_xx.py
    5. hf2\_aggregate\_flux\_csvs\_xx.py
11. make\_postproc\_iflzone.py
    1. hf2\_lyby2000\_iflzone\_stats\_xx.py

**Runs locally**

1. Manually copy 90m and 540m flux mosaics from Monsoon to local
2. Manually copy annual forest loss rasters to local
3. hf2\_rcl\_tcarea\_make\_clr.py
   1. Reclassifies annual forest loss rasters to 0/1
   2. Use these to visualize corridor impacts in ArcGIS Pro ifl\_corridor\_figs\_update > SA Detail
4. hf2\_landcover\_in\_corridors.py – runs in ArcGIS Pro
5. hf2\_summarize\_land\_cover\_in\_corridors.py
6. hf2\_plot\_country\_fluxes.py\*\*
7. hf2\_lybytc2000\_analysis.py\*\*
8. hf2\_analyze\_prob\_connectance.py\*\*
   1. To transfer dstats files from monsoon, in WinSCP, go to Session tab and click Generate Session URL/Code…
   2. Copy the script template, edit it by filling in :password after username, change paths as needed, and add commands e.g. lcd, cd, get, exit
   3. I used this script to copy most of the dstatsl1 files over.
      1. "C:\Users\pj276\Projects\ifl\_corridors\code\scripts\dl1.txt"
   4. Run it from windows CMD using something like this
      1. "C:\Program Files (x86)\WinSCP\WinSCP.exe" /log=" C:\Users\pj276\Projects\ifl\_corridors\code\scripts\WinSCP.log" /ini=nul /script=" C:\Users\pj276\Projects\ifl\_corridors\code\scripts\dl1.txt "
9. hf2\_analyze\_fc.py\*\*
10. ArcGIS pro – cost allocation from IFLs using cost surfaces then zonal stats of direct flux loss within voronoi polygons