Tutorial Summary:

Learn how to download USGS land cover data and extract area for Continuum modeling using QGIS.



1) Go to USGS' MRLC viewer: <u>https://www.mrlc.gov/viewer/</u>

2) Zoom in to area of interest and click 'Open Data Download Tool' () and draw bounding box on map that covers modeled area.



3) Select 'Land Cover' – '2016 Land Cover ONLY'. Enter email address and click 'Download'



4) Open email and download Zip file. Extract contents of Zip file.

5) Open QGIS

6) Import TIFF file by clicking Layer -> Add Layer -> Add Raster Layer



7) Click CRS (Coordinate Reference System) button in bottom right corner



8) Change the data projection to WGS 84 (EPSG:4326)





- 9) Extract modeled area by clicking Raster -> Extraction -> Clip Raster by Extent
 - Next to 'Clipping extent', click the three dots and select 'Select Extent on Canvas' to draw bounding box
 - Edit the latitude and longitude values to match the coordinates of modeled area
 - Click Run and, when finished, click close

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10)Right-click on 'Clipped' raster and export to GeoTIFF file (Export -> Save As). Enter file name, select WGS84 in CRS dropdown menu and click OK

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11)Open Continuum and save .CFM file. Click 'Select/View/Modify Land Cover Key' and select 'US NLCD'

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12) Click "Import Land Cover / Roughness data". Select Datum NAD83 (and enter UTM zone (check Google Earth if unsure)



