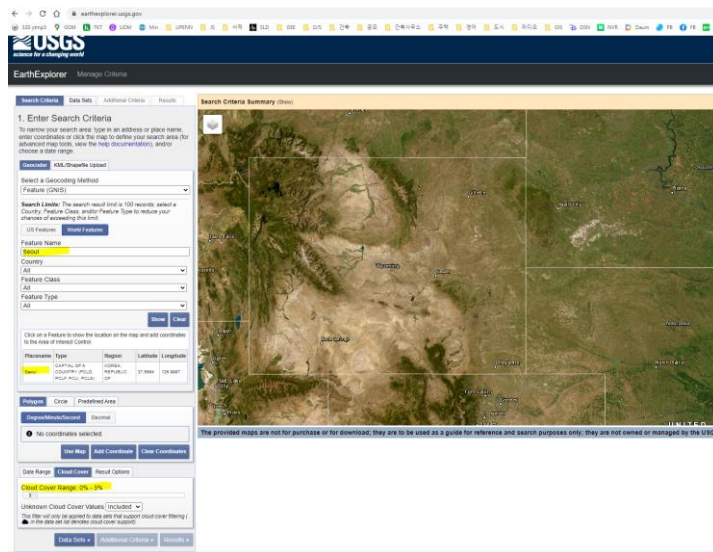


# Tracking Urban Development using Landsat8 imagery data

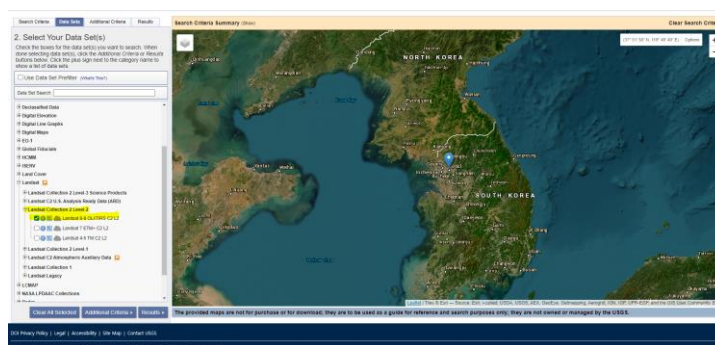
## Land use classify Deep learning algorithm

### 1. Prepare Data

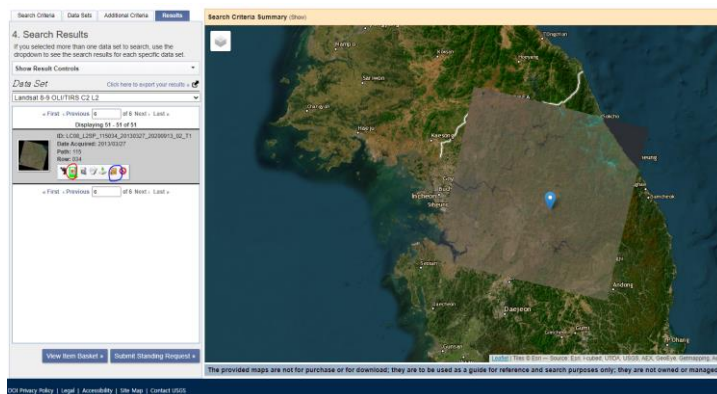
1. Download proper data from <https://earthexplorer.usgs.gov/>
2. Search the area of Interests and set Cloud Cover Range to 5%



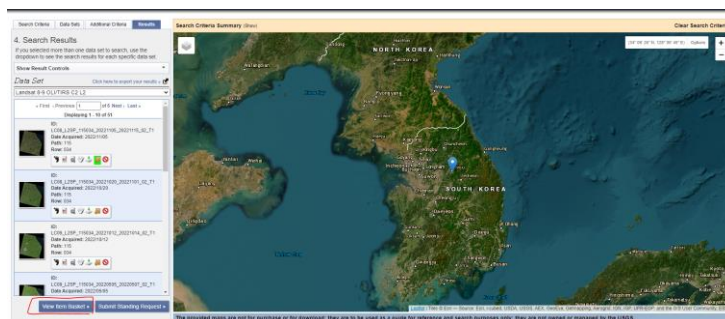
3. Choose Landsat 8 C2 L2 dataset



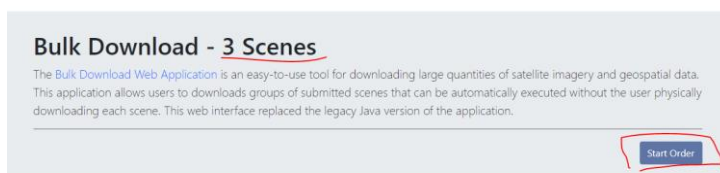
4. Check the image footage and quality(red) and add to item basket(blue)



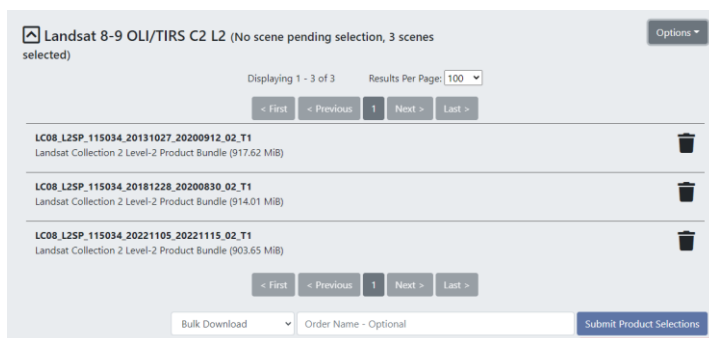
5. After adding every data you need click view item baskets



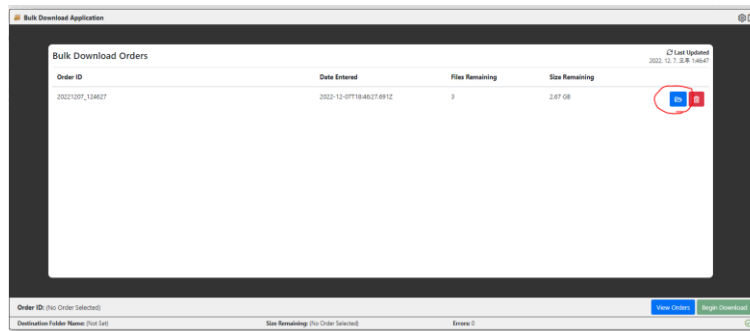
6. You can identify How many imageries you have here. Click start order to download it



7. Click Submit Product selections

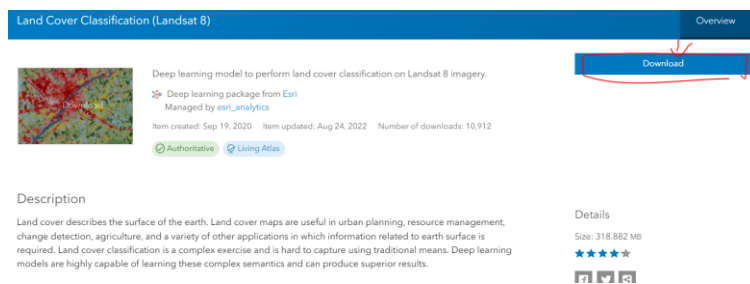


8. launch the bulk downloader and select the folder you want to save these files



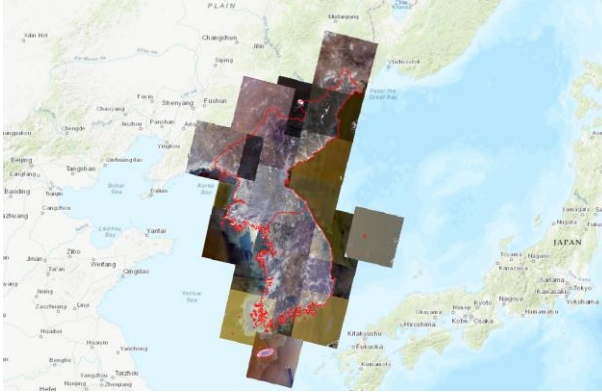
## 2. Prepare Deep learning packages

1. <https://www.arcgis.com/home/item.html?id=e732ee81a9c14c238a14df554a8e3225>

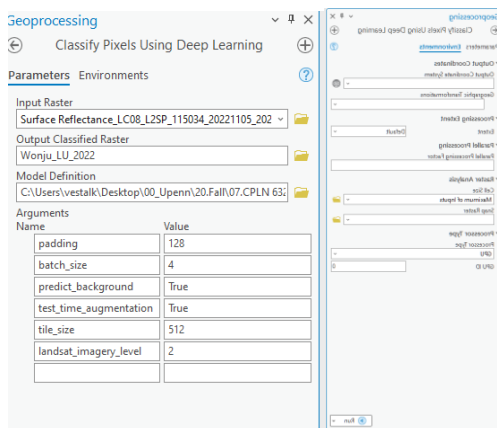


### 3. Import Dataset into Arcgis and Classify Land Use

1. Import MTL surface reflectance files onto your map



2. Run Deep learning



3. Get the final result

