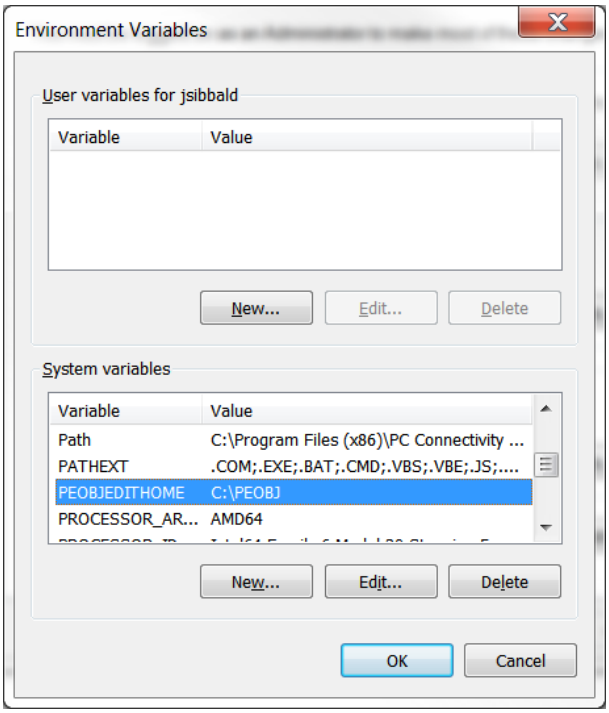
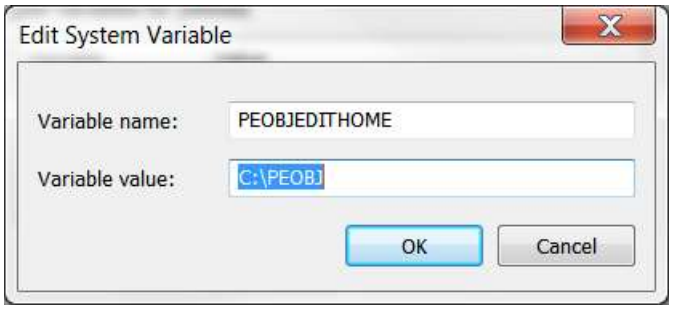
Adding the OSTN02 NTV2 transformation to ArcGIS Desktop, ArcReader and ArcGIS Server

Add an Environment Variable of PEOBJEDITHOME to the System Variables with the value of the folder where the GEOGTRAN file will reside (e.g. C:\PEOBJ)





In this folder create a file (with no extension) called GEOGTRAN (or copy and rename the one attached to this forum)

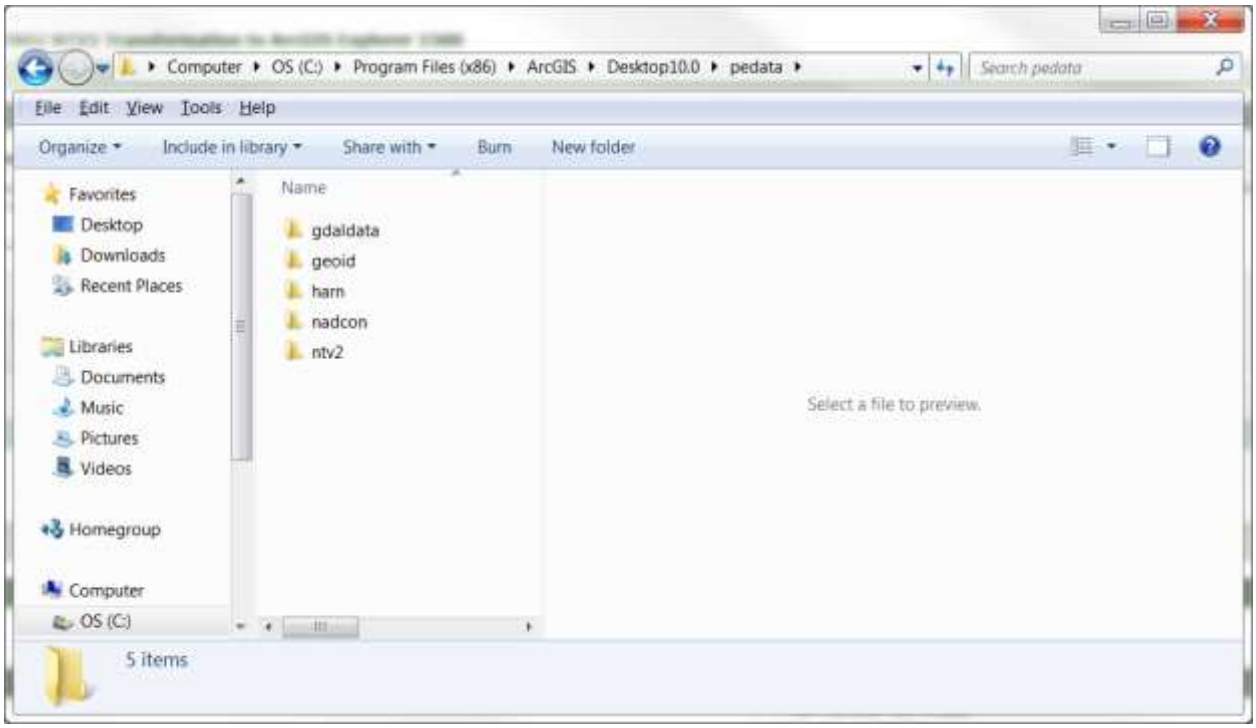
The content of the GEOGTRAN file (each GEOGTRAN entry is a separate line) is

```
GEOGTRAN, 208339, "OSGB_1936_To_WGS_1984_OSTN02_NTV2",
PE_GCS_OSGB_1936, PE_GCS_WGS_1984, PE_MTH_NTV2, PE_PAR_NAME_DATASET,
"Dataset_greatbritain/OSTN02_NTv2"
GEOGTRAN, 208338, "OSGB_1936_To_ETRS_1989_OSTN02_NTV2",
PE_GCS_OSGB_1936, PE_GCS_ETRS_1989, PE_MTH_NTV2,
PE_PAR_NAME_DATASET, "Dataset_greatbritain/OSTN02_NTv2"
```

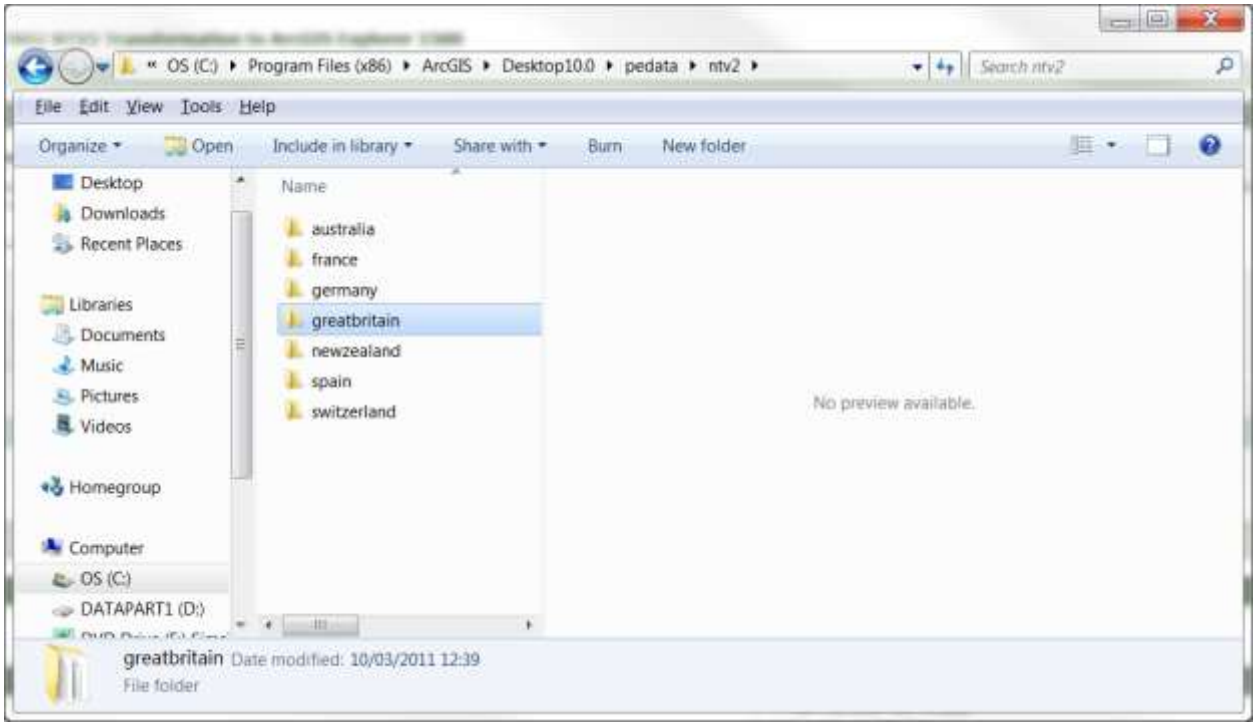
After downloading the NTV2 file from
http://www.ordnancesurvey.co.uk/oswebsite/gps/docs/OSTN02_NTv2_DataFiles.zip

Unzip it and go to the pedata folder in the Desktop10.0 folder

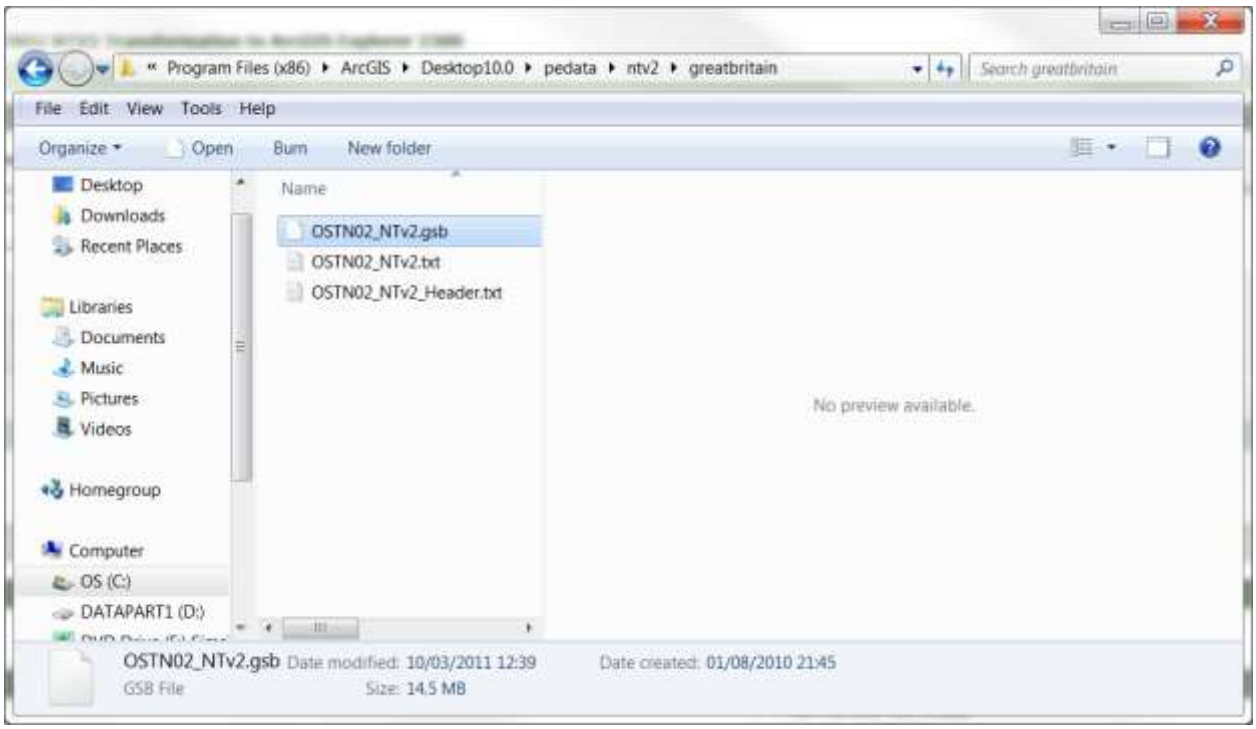
On a 64 bit machine this will be in Program Files (x86)

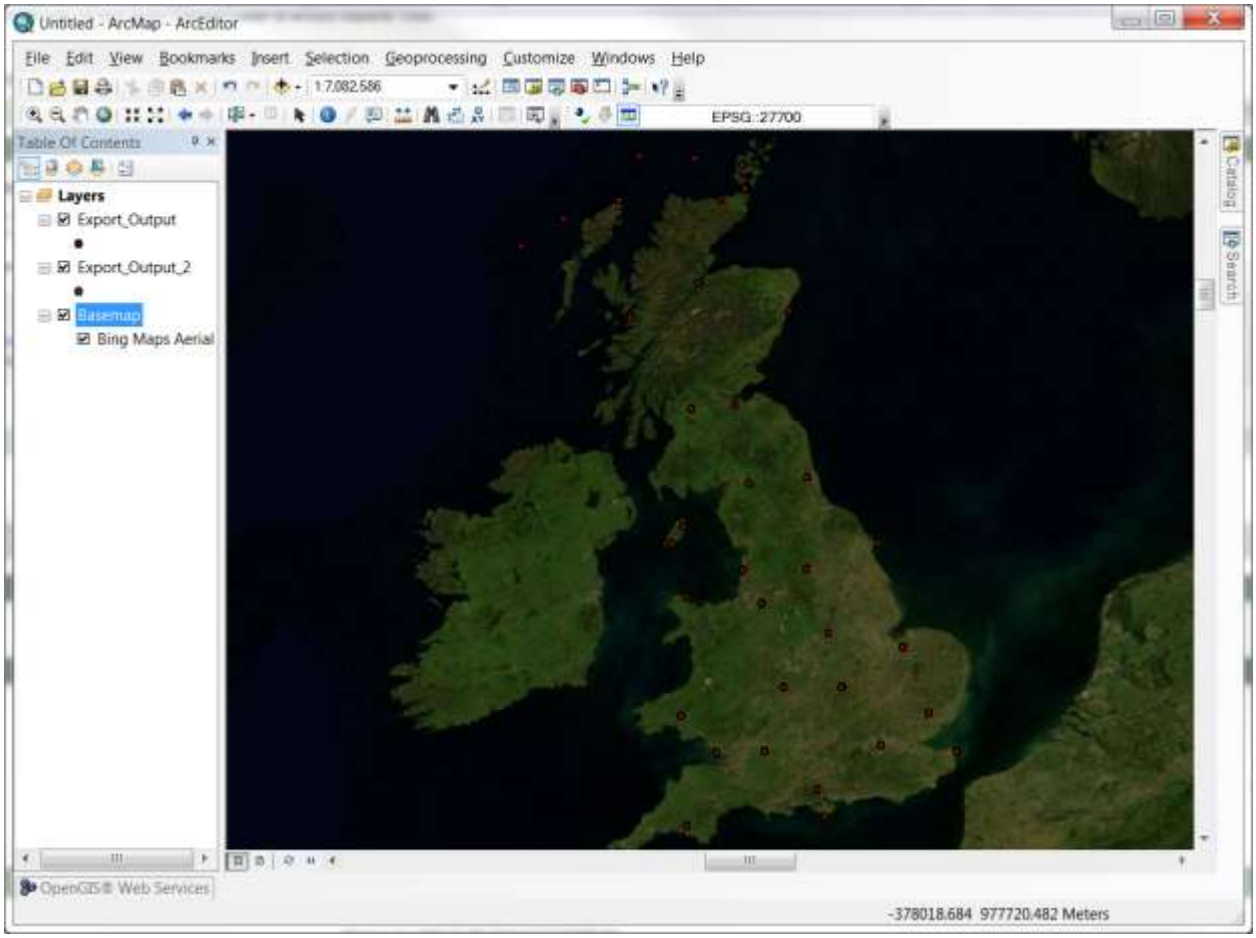


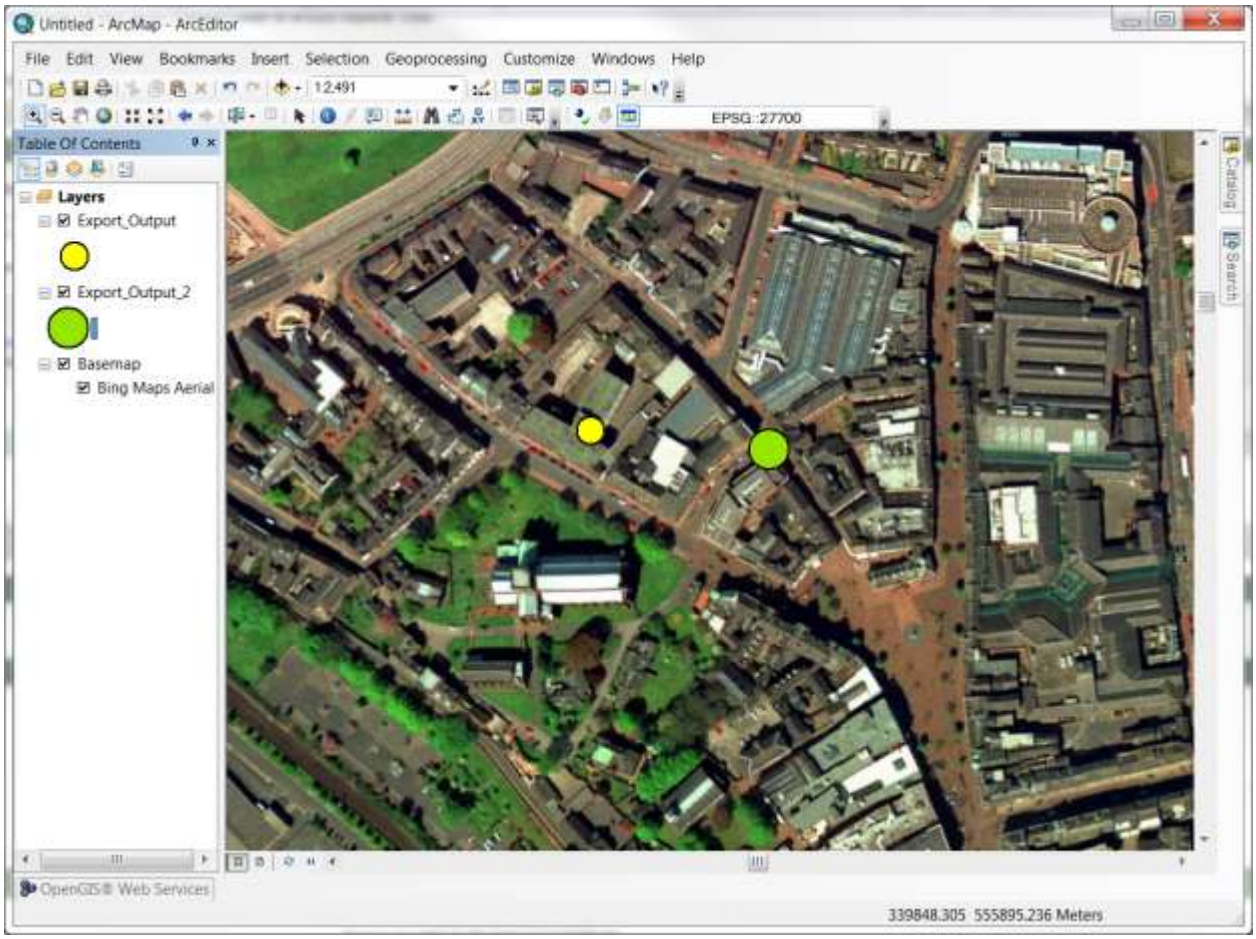
Open the ntv2 folder and create a new folder called “greatbritain” (one word, no spaces and all lowercase)

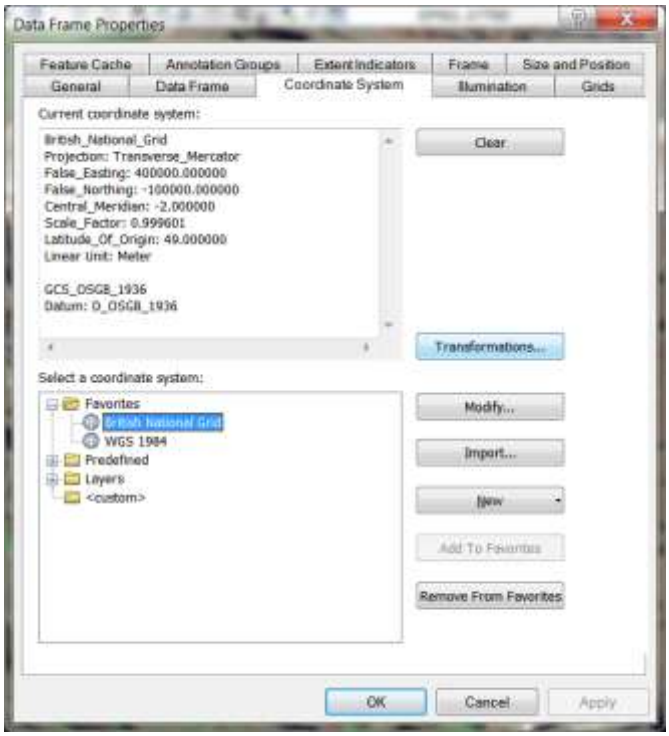


Into this folder place the unzipped OSTN02_NTv2.gsb file which you downloaded

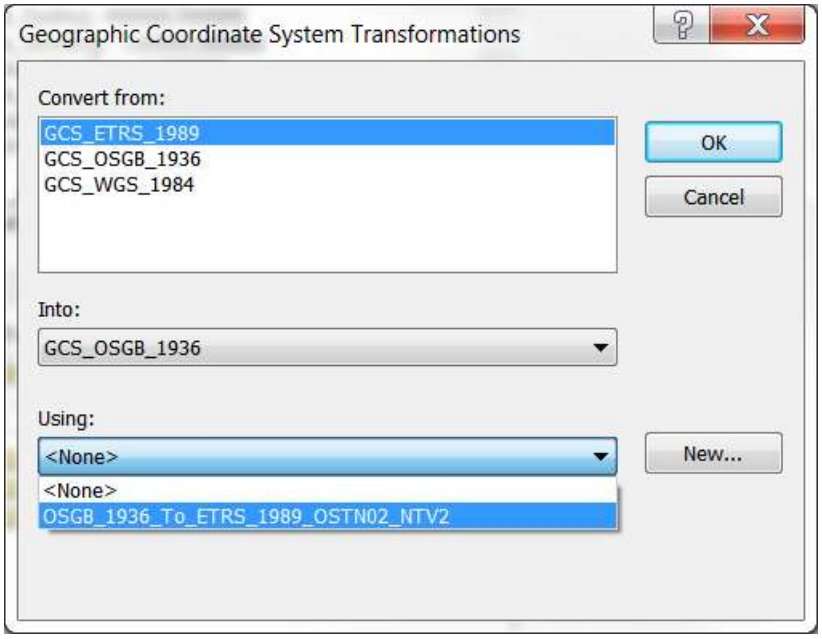


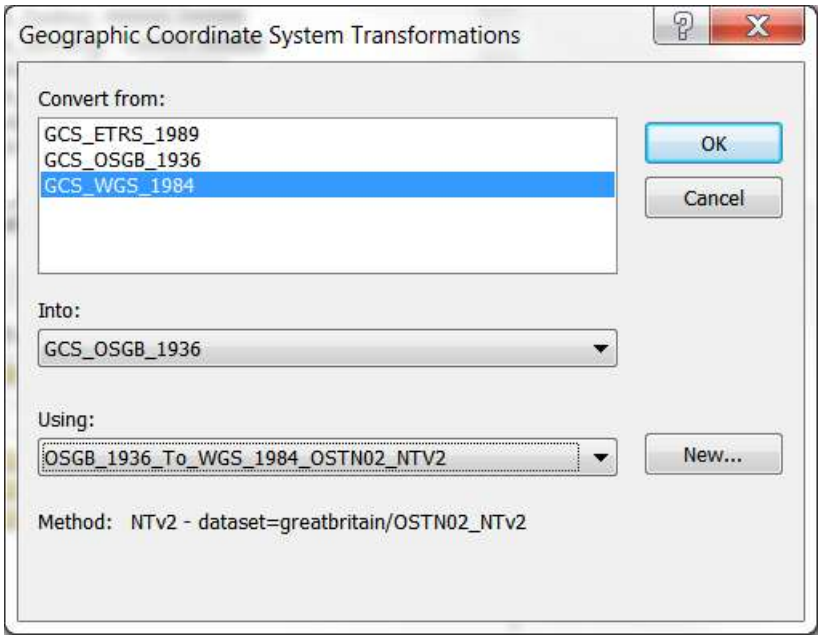

Untitled - ArcMap - ArcEditor
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:7,082,586
EPSG::27700
Table Of Contents
Layers
Export_Output
Export_Output_2
Basemap
Bing Maps Aerial
Catalog
Search
OpenGIS® Web Services
-378018.684 977720.482 Meters

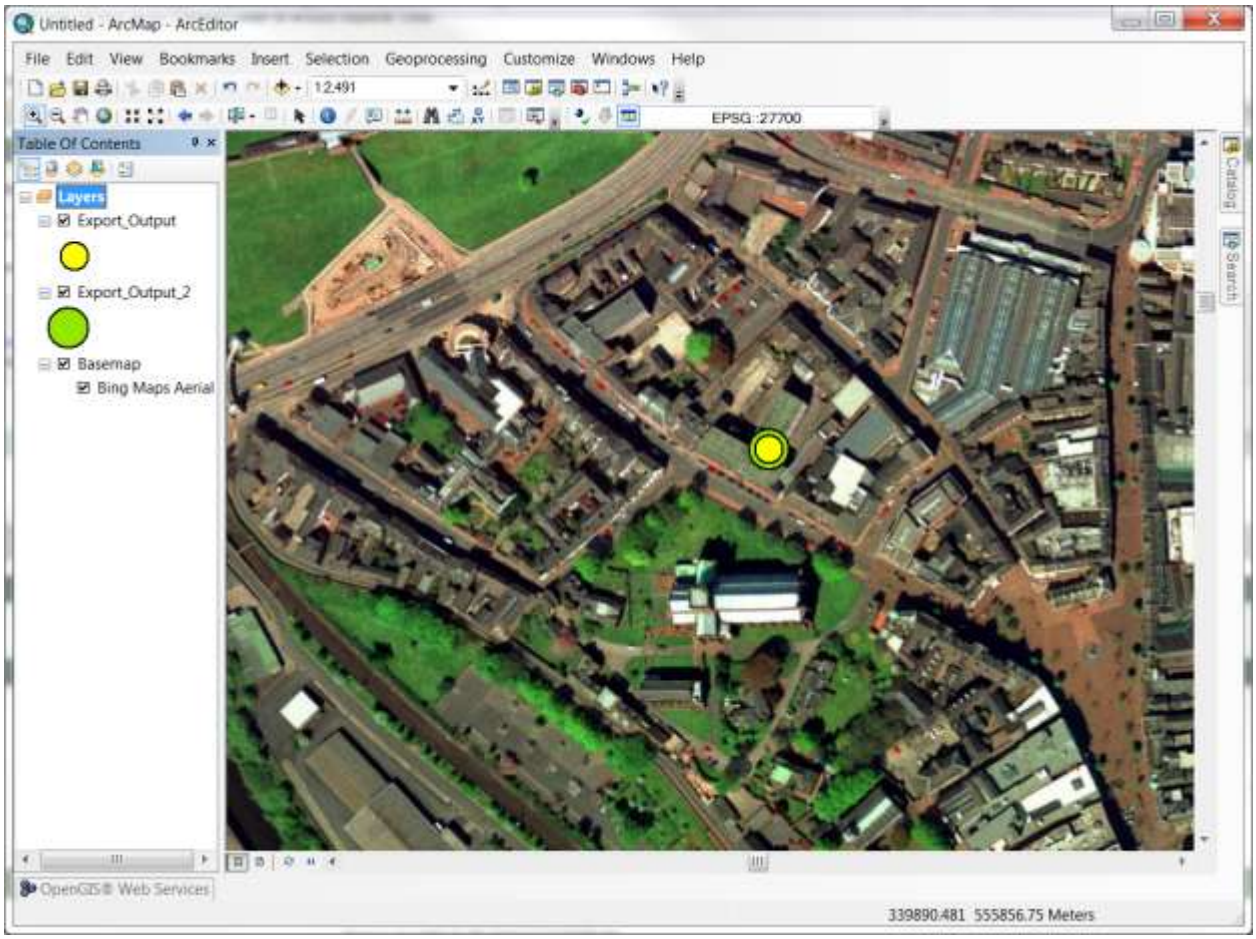




The new transformations are in the drop down


Geographic Coordinate System Transformations
Convert from:
GCS_ETRS_1989
GCS_OSGB_1936
GCS_WGS_1984
OK
Cancel
Into:
GCS_OSGB_1936
Using:
<None>
New...
<None>
OSGB_1936_To_ETRS_1989_OSTN02_NTV2


Geographic Coordinate System Transformations
Convert from:
GCS_ETRS_1989
GCS_OSGB_1936
GCS_WGS_1984
OK
Cancel
Into:
GCS_OSGB_1936
Using:
OSGB_1936_To_WGS_1984_OSTN02_NTV2
New...
Method: NTv2 - dataset=greatbritain/OSTN02_NTv2



After applying the pins are coincident or within 0.001 of a metre.

In order to get this to work for ArcReader and ArcGIS Server the “greatbritain” folder with the .gsb file needs to be copied into the respective pedata/ntv2 folder.

This can also be applied to ArcGIS Desktop 9.3.1 (9.3.1 Server is not verified) and ArcGIS Explorer 1500.