## Adding the OSTN02 NTV2 transformation to ArcGIS Explorer 1500

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)

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Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these cha		<u>U</u> ser variables for	jsibbald
Performance		Variable	Value
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User Profiles			
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		Path	C:\Program Files (x86)\PC Connectivity
Sen	ings	PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS; 🗐
		PEOBJEDITHOM	E C:\PEOBJ
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OK Cancel	Apple		Ne <u>w</u> Ed <u>i</u> t De <u>l</u> ete
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dit System Variable	X		
Variable name: PEOBJEDITHOME			
2025 101			
Variable value: C:\PEOBJ			

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

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INCOTNAN, SISSIS, "ONNE_1994_TO_MUN_1994_WIND)_HTV2", NE_GCI_CONN_1914, NE_GCI_MUN_1904, NE_WIN_HTV1, NE_TAR_MANNE_DATASHT, "Dataset_greatbritain/ontho GEOGRAM, SISSIS, "COSH_1918_Th_EISS_1918_ONTHD1_HTV2", NE_GCS_000B_1916, NE_GCS_EISS_1949, NE_WIN_HTV1, NE_TAR_MANNE_DATASHT, "Dataset_greatbritain/ontho	13_MLA1. HMO5_MLA1.
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## 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,

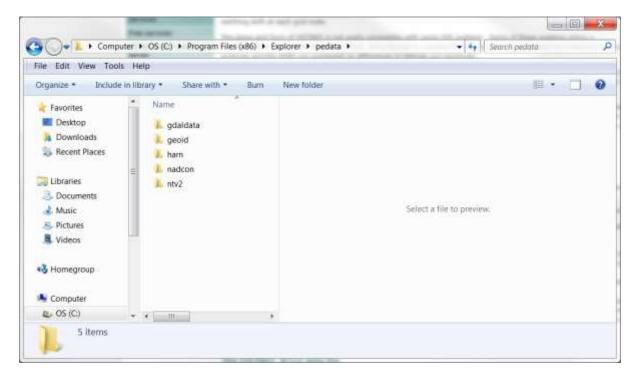
PE_PAR_NAME_DATASET, "Dataset_greatbritain/OSTN02_NTv2"
```

## 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 Explorer folder

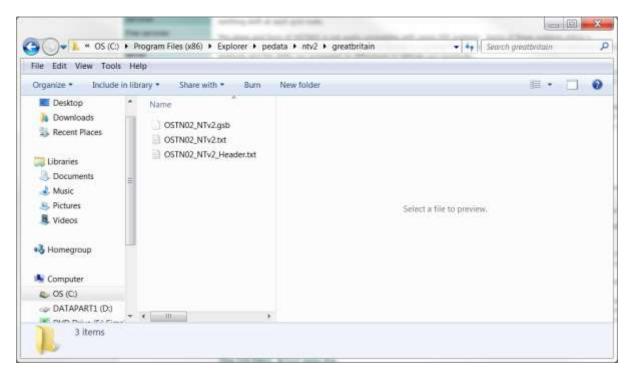
On a 64 bit machine this will be in Program Files (x86)



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

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rganize • 🔅 Op Desktop Downloads Recent Places Libraries Documents Music Pictures	<ul> <li>Name</li> <li>australia</li> <li>france</li> <li>germany</li> <li>greatbritain</li> <li>japan</li> <li>newzealand</li> </ul>	Name  A australia  france  germany  gereatbritain  japan	Burn New folder	III • No preview available.	
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Into this folder place the unzipped OSTN02\_NTv2.gsb file which you downloaded

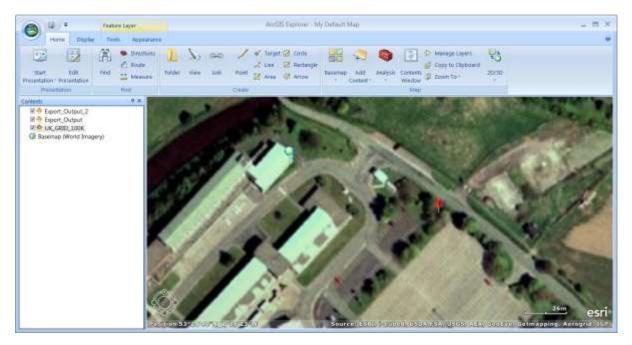


I have the ArcGIS Explorer Projection Engine Expansion Pack so I do not know if this will work without it. If not it can be downloaded.

ArcGIS Explorer Expansion Packs		×
View installed ArcGIS Explorer expansion	1 packs	
ArcGIS Explorer Fonts Expansion Pack ArcGIS Explorer Projection Engine Expansion Pack ArcGIS Explorer Data Access Expansion Pack		
		whe
	Get Expansion Packs	
Help about Expansion Packs	Close	

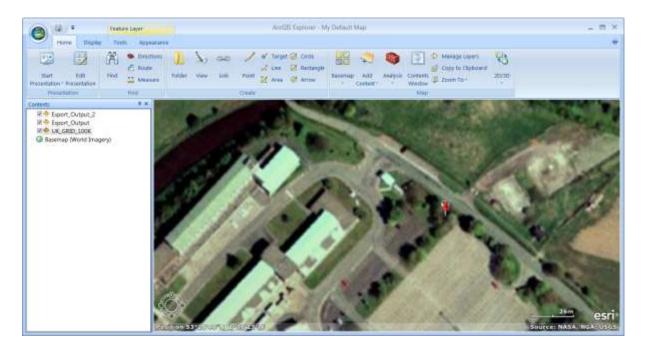
In the Map Properties I chose a 2D BNG CRS and added some ETRS\_1989 and BNG data

Map Properties		×
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3D Coordinate System		
	British_National_Grid	
		E
	eographic Transformations	
	Select the geographic transformation(s)	) to use when projecting layers to t
	Map's geographic coordinate system:	GCS_OSGB_1936
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	GCS_WGS_1984	None 👻
	• []]	4
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Map Properties		3
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	OK Cancel Apply	

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



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

File Edit View Tools Help		
Organize * Include in library * Share with * Burn New folder	·	- 6
<ul> <li>Pictures</li> <li>Videos</li> <li>Marne</li> <li>OSTN02_NTv2.gsb</li> <li>OSTN02_NTv2.txt</li> <li>OSTN02_NTv2_Header.txt</li> <li>OSTN02_NTv2_Header.txt</li> <li>OSTN02_NTv2_Header.txt</li> <li>DVD Drive (F) Sims:</li> <li>ReadyBoostUS8 (G:)</li> <li>Local Disk (R:)</li> <li>Network</li> <li>ROSLIN</li> </ul>	Select a file to preview.	