

## AGR Support

ASCII Grid files with the following format:

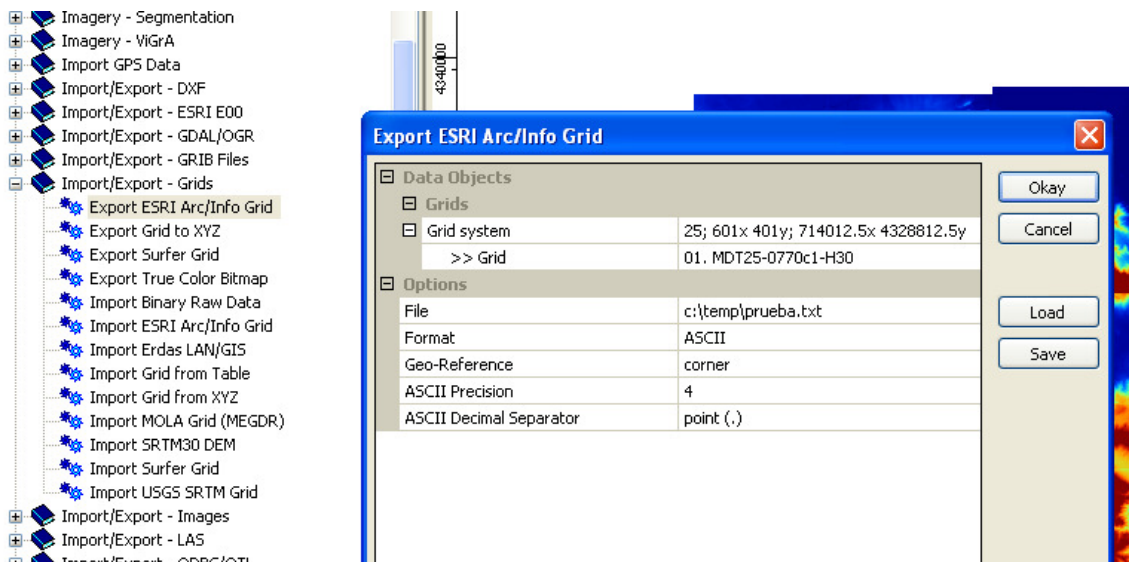
```
NCOLS 601
NROWS 401
XLLCORNER 714000
YLLCORNER 4328800
CELLSIZE 25
NODATA_VALUE -999
33.381 33.279 33.102 32.982 32.809.....
```

are now supported. Coordinates MUST be **UTM**.

Use:

- 1) Create a folder named “agr” in the same folder where you have the “project” folder (or the father’s and sons’ folders in multitrack projects). E.g. if you are working on c:\project, create a folder c:\agr.
- 2) Copy the needed .agr files to the folder you created in the step 1). Rename those files with extension .agr if needed.
- 3) Use the scripts as usual. Following the steps recommended on screen the s2\_elevation step will be skipped as we already have elevation data.

**NOTE:** if you have grids with a different format you can use free software to convert them (like SAGA-GIS, import your grid and then select *Module Import/Export - Grids \ Export ESRI Arc/Info Grid*, using ASCII format and corner geo-reference).  
<http://sourceforge.net/projects/saga-gis/>



**NOTE:** .agr grids with 5 and 25m spacing can be downloaded for free for Spain. Just create an user and download MDT05 or MDT25 files.

<http://centrodedescargas.cnig.es/CentroDescargas/>

Using the code of the following grid, downloading is easier:

[http://centrodedescargas.cnig.es/CentroDescargas/equipamiento/cuadrícula\\_MTN50.png](http://centrodedescargas.cnig.es/CentroDescargas/equipamiento/cuadrícula_MTN50.png)

#### Búsqueda Avanzada

Seleccione Productos

Modelo Digital del Terreno - MDT25

[Ver descripción de los productos](#)

Seleccione División administrativa:

División administrativa

Seleccione Hoja del MTN50:

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[Ver cuadrícula del MTN50](#)

Ver lista de Productos

Resultados de su búsqueda / [Volver a buscar](#)

[Mapa Web](#) [contacto](#)

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Producto	Archivo	Formato	Tamaño(MB)	Descargar
Modelo Digital del Terreno - MDT25	MDT25-0070c4.zip	AGR	1,32	<a href="#">Descargar</a>
Modelo Digital del Terreno - MDT25	MDT25-0070c1.zip	AGR	1,32	<a href="#">Descargar</a>
Modelo Digital del Terreno - MDT25	MDT25-0070c2.zip	AGR	1,35	<a href="#">Descargar</a>
Modelo Digital del Terreno - MDT25	MDT25-0070c3.zip	AGR	1,30	<a href="#">Descargar</a>

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**NOTE:** for Catalonia, grids with 15m spacing can be downloaded for free from

[http://www.icc.cat/vissir2/?lang=es\\_ES](http://www.icc.cat/vissir2/?lang=es_ES)

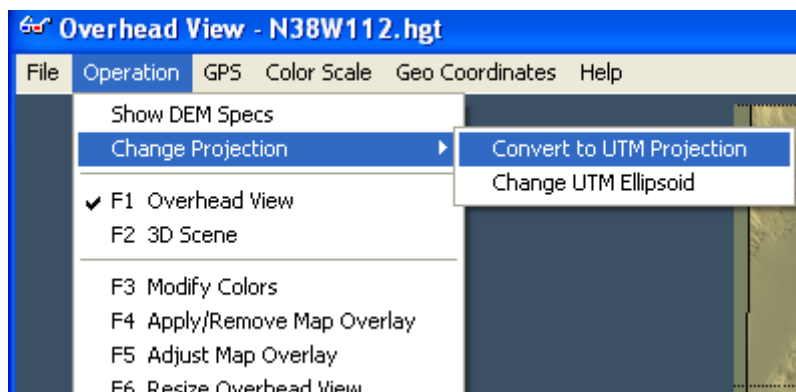
just clicking on the map and choosing "otras" section. The format is exactly the same used in the cnig web, but the spacing is different. File extensions should be changed from ".txt" to "agr".

**NOTE:** MDT05 files may be too big for using them directly as elevation data source for the scripts. Script `split_agr` can be used to create smaller files from a MDT05. Example of use with file **MDT05-0667-H30.ASC** to create 5x5 files (with extension .AGR):

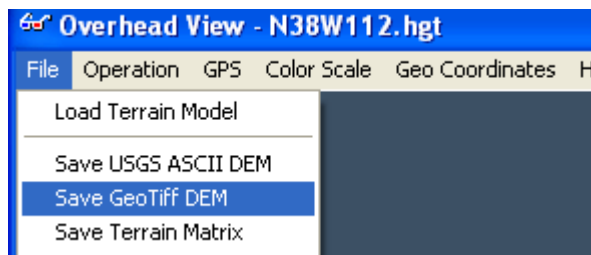
```
split_agr('MDT05-0667-H30',5)
```

**NOTE:** .hgt files can be opened with 3dem to project them to UTM (Operation\Change Projection)

<http://www.viewfinderpanoramas.org/3dem.zip>



Then saved as Geotiff dem file:



And imported with SAGA GIS:

