

Open BIL, BIP or BSQ files in QGIS

QGIS Tutorials and Tips



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BIL, BIP and BSQ and GDAL

GDAL is a library that can read and write data in various formats. BIL, BIP and BSQ are three different ways of storing multi-band data. The GDAL library <<http://www.gdal.org>> can read and write data in these formats. QGIS is a GIS application that can use GDAL to read and write data in these formats. QGIS can read and write data in BIL, BIP and BSQ formats.

Band interleaved by line (BIL), band interleaved by pixel (BIP), and band sequential (BSQ) are three different ways of storing multi-band data. (BIL is the most common format for multi-band data. <[http://web help.esri.com/arcgis/9.3/arcgisserver/arcgisserver.htm](http://webhelp.esri.com/arcgis/9.3/arcgisserver/arcgisserver.htm)>)

GDAL can read and write data in BIL, BIP and BSQ formats. The command line options for GDAL are: `gdalinfo image.bil`, `gdalinfo image.bsq`, `gdalinfo image.bip`. The command line options for QGIS are: `Layer --> Add Raster Layer` and `image.bil`.

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Global Land Cover Facility

Global Land Cover Facility <<http://glcf.umd.edu/>> is a project of the University of Maryland, College Park. It provides global land cover data for the AVHRR Global Land Cover Classification data <<http://glcf.umd.edu/data/landcover/data.shtml>>.

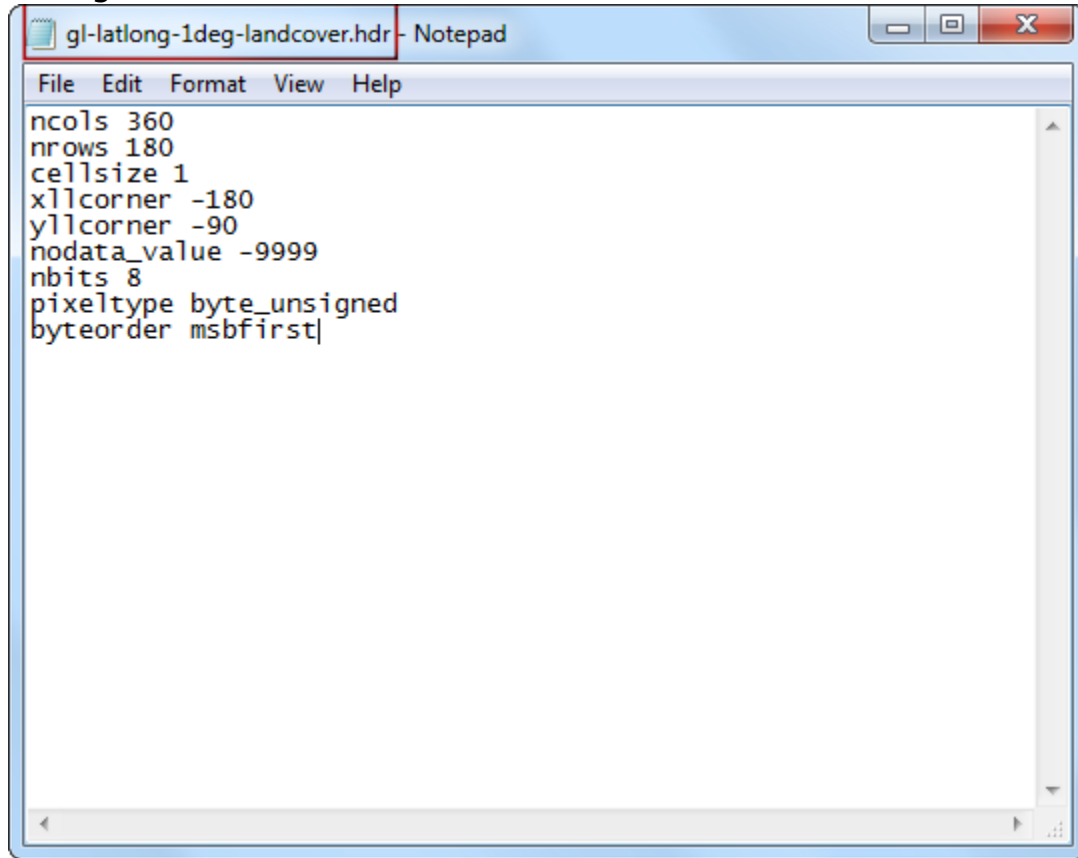
Global Coverage is available in BSQ format. 1 Degree pixel resolution is available.

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7-Zip utility

1. GDAL can read and write data in BIL, BIP and BSQ formats. The command line options for GDAL are: `gdalinfo image.bil`, `gdalinfo image.bsq`, `gdalinfo image.bip`. The command line options for QGIS are: `Layer --> Add Raster Layer` and `image.bil`. The command line options for 7-Zip utility are: `7z x gl-latlong-1deg-landcover.bsq` and `7z r gl-latlong-1deg-landcover.bsq`.

5. 创建名为 gl-latlong-1deg-landcover.hdr 的元数据文件。该文件应包含以下信息：
- ```
ncols 360
nrows 180
cellsize 1
xllcorner -180
yllcorner -90
nodata_value -9999
nbits 8
pixeltype byte_unsigned
byteorder msbfirst
```



6. 在 QGIS 中加载元数据文件 gl-latlong-1deg-landcover.hdr 并添加栅格数据源。步骤如下：
- ```
Layer --> Add Raster Layer --> Open
```



7. □□ □□□□ □□□□ □□□□ □□ □□□□□□. □□□□ □□/□□□□□ □□□□ **WGS84
 EPSG:4326** □ □□□□□. □□ QGIS □ □□□□□ □□□□□□ □□ □□□□□□.

