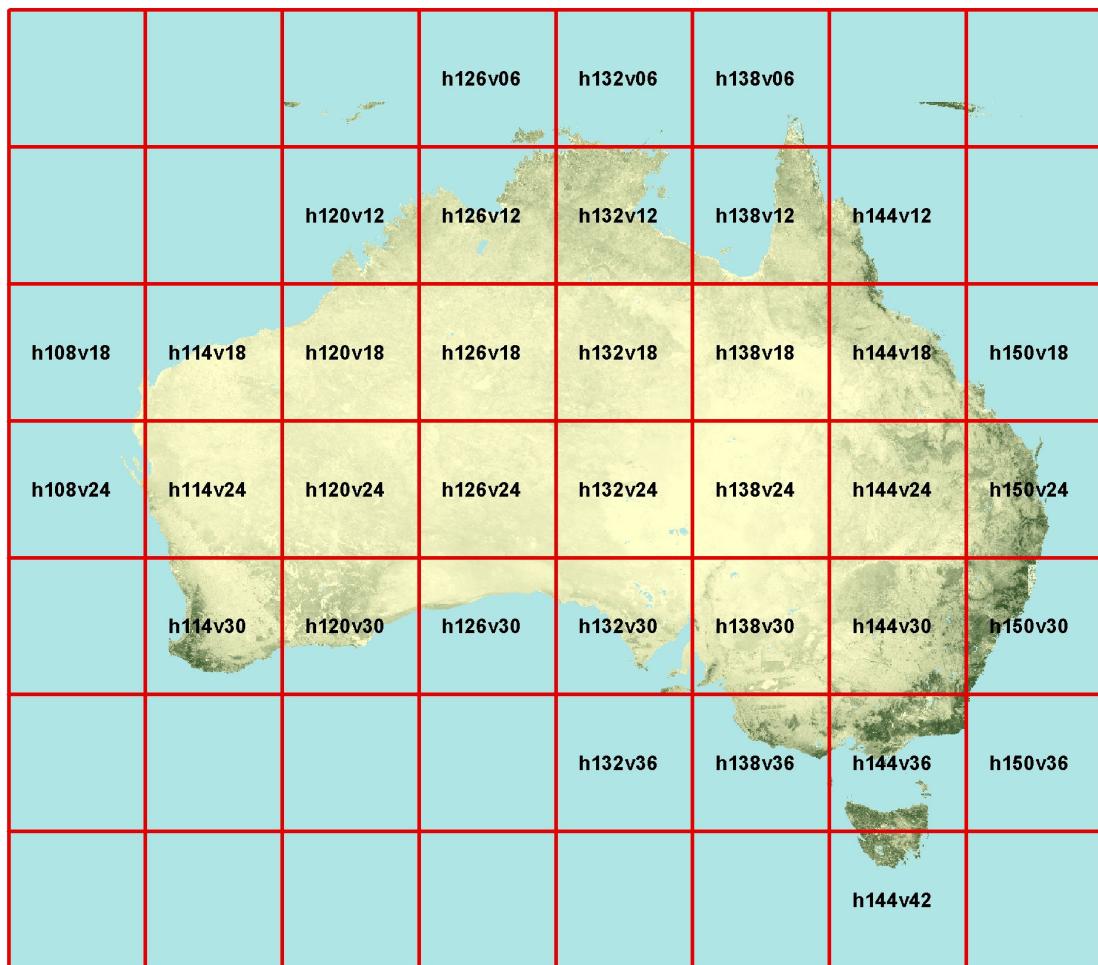


Evergreen and Seasonally-green Vegetation Index Download Guide.

The data can be downloaded from: <http://landcover.vislab.uq.edu.au/files/>

The data products on this site are in a geographics coordinate system using the WGS84 datum. The two products available are 16 day estimates of evergreen and seasonally green vegetation indices vegetation indices for the NDVI and EVI.

The dataset has been partitioned both temporally and spatially to reduce file sizes. The temporal partitioning is based on year. The spatial partitioning is based on tiles. Each tile represents a 6 degree x 6 degree region. The name of the tile corresponds to the top left hand corner coordinates. For example, the h132v24 tile has an upper left-hand corner of 132 degrees longitude East, 24 degrees latitude South and extends to 138 degrees East and 30 degrees South. The spatial partitioning was designed to align with the UTM grid. A geographic projection in WGS-84 is used. The following figure shows the positions of the tiles:



Filenaming convention

The download server contains all files in a single directory. The mosaics are stored as .tif.gz files and use a naming convention of MOD13Q1_hXXXvYY_yyyymmdd_vi.tif.gz. *MOD13Q1* is the MODIS product used to derive the indices; hXXXvYY represents the tile where XXX is the longitude and YY is the latitude for the upper left corner; yyyymmdd is the date, and vi is the vegetation index (ndvi or evi).

Unpacking the downloaded data

To gunzip the .tif.gz files on a unix/linux based system:
`gunzip filename.tif.gz`

To unpack the gzipped tar files on a unix/linux based system:
`tar -xzf filename.tar.gz`

On *Windows* the files can be unpacked using the WinZip utility.

What is in the images?

Each image is an signed 16-bit Geotiff file that contains 2 layers.

The layers are:

- 1) evergreen vegetation index
- 2) seasonally-green vegetation index

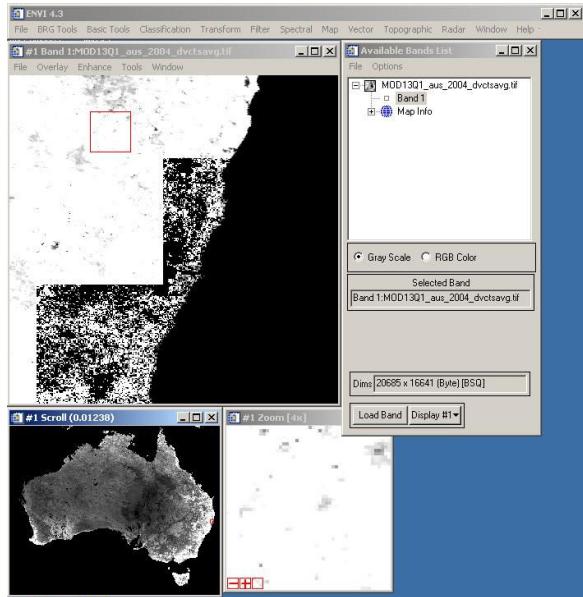
A pixel value of zero (-10000) in the image indicates no or insufficient data was available to process that region. Reasons for a value of -10000 are:

- Pixel is over water
- Not enough cloud free images in the time series (very rare)

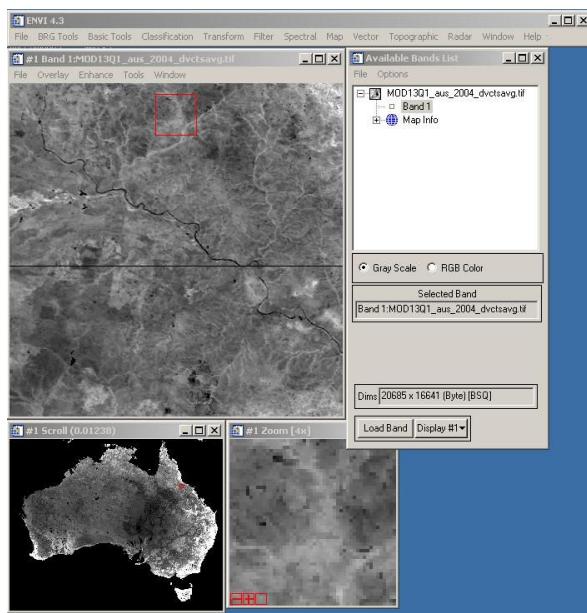
Other values are vegetation index values scaled by 10000. e.g. a value of 3429 is a vegetation index of 0.3429

Known problems

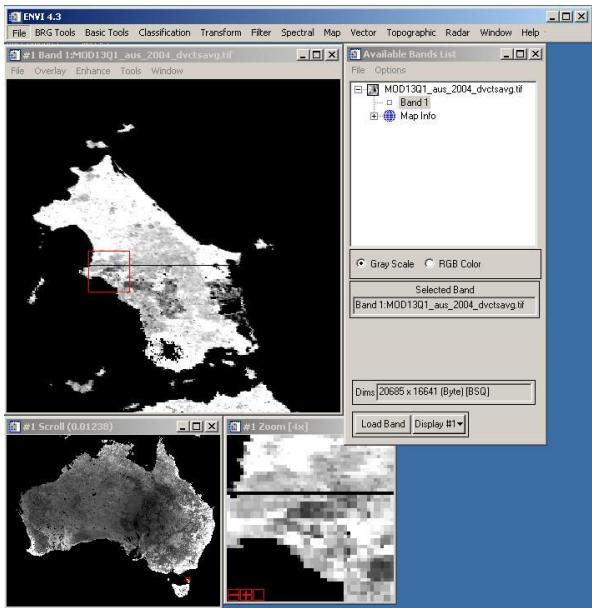
- 1) Failure of processing on some pixels on the North-Coast of New South Wales – present on the h150v30 tiles only.



- 2) Blank line running horizontally across northern Australia – due to mosaicing the original MOD13Q1 tiles.



3) Blank line running horizontally across southern portion of the image (visibly on King Island and Flinders Island just north of Tasmania).



4) Data for some tiles and some dates are missing – just happens sometimes when processing large amounts of image data.