

CLIPPED TIFF IMAGES FOR VIRGINIA

Original: May, 1999

Revised: 22 September, 1999

Introduction

The tiff images contained on the CD are developmental in nature. They were produced for the internal use of Virginia State Government by the GIS group of the Virginia Economic Development Partnership and the Spatial Data Section of the Division of Mineral Resources, VA Department of Mines, Minerals and Energy. The data is not intended for publication nor do they represent a fully edited or quality checked product.

We have not included extensive documentation other than the brief readme files and a list of the quadrangles and the data files they correspond to. The data on this CD is for 1:24,000 scale data only. No viewing software has been included.

The file format for the image portion of the data is tiff, whereas a USGS Digital Raster Graphic is geotiff format. The world files have been recalculated by ArcInfo™ during the clipping process. The collar information outside the map neat line has been removed to allow mosaicking of the quadrangles.

Status

Developmental

Known/Suspected Issues

Original Data

We are working with the USGS to establish the exact processing history of some of the maps, especially the datum information. As best we can establish, the DRGs the Division of Mineral Resources received from the USGS were processed assuming NAD 27 as the datum.

Processing

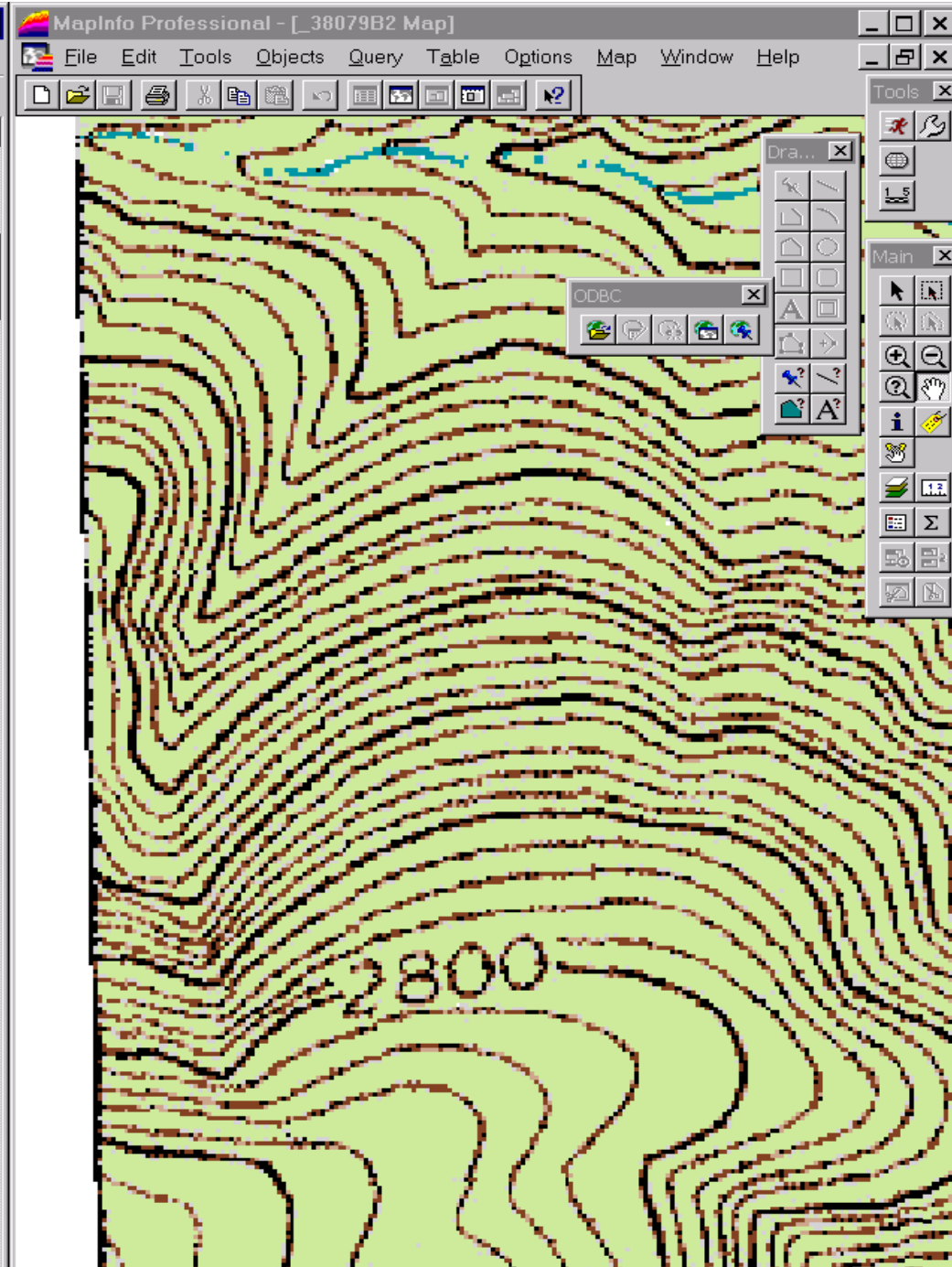
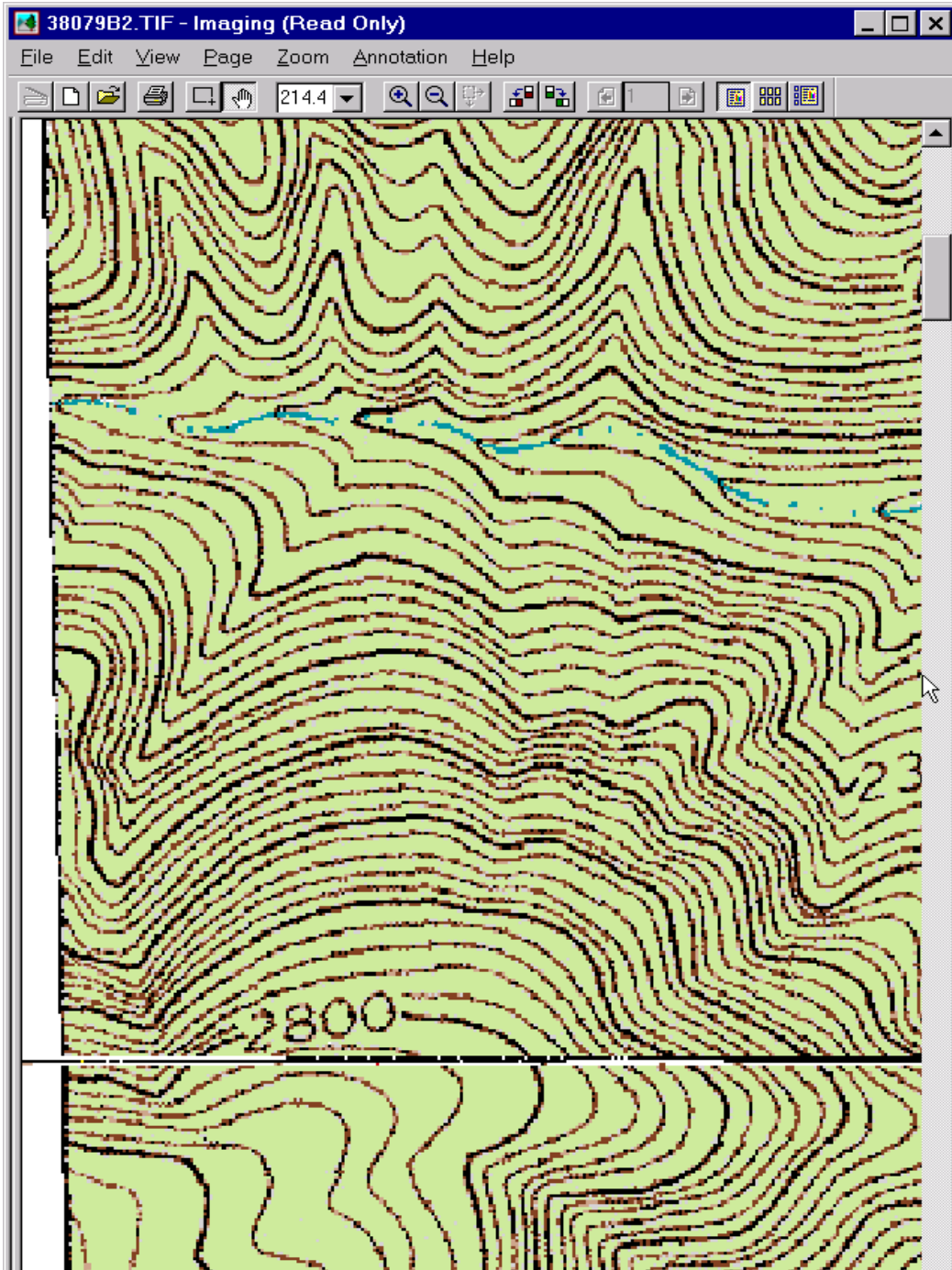
The data files have not been tested on MacIntosh/Apple systems. During processing by the Division of Mineral Resources, files were saved out of Adobe™ PhotoShop 4.0 into a tiff format using the IBM-compatible option.

Viewing with the Accessory Imaging Program in NT or Windows95

It has been reported that when trying to view a clipped tiff image using the image viewing software included with the Windows95 or Windows NT operating systems (found under the Accessories Program Group), horizontal "lines" may appear on the image. The same image when viewed from other applications will appear to be fine as shown on the following screen capture. It is recommended that you do not use this accessory program for viewing the tiff images.

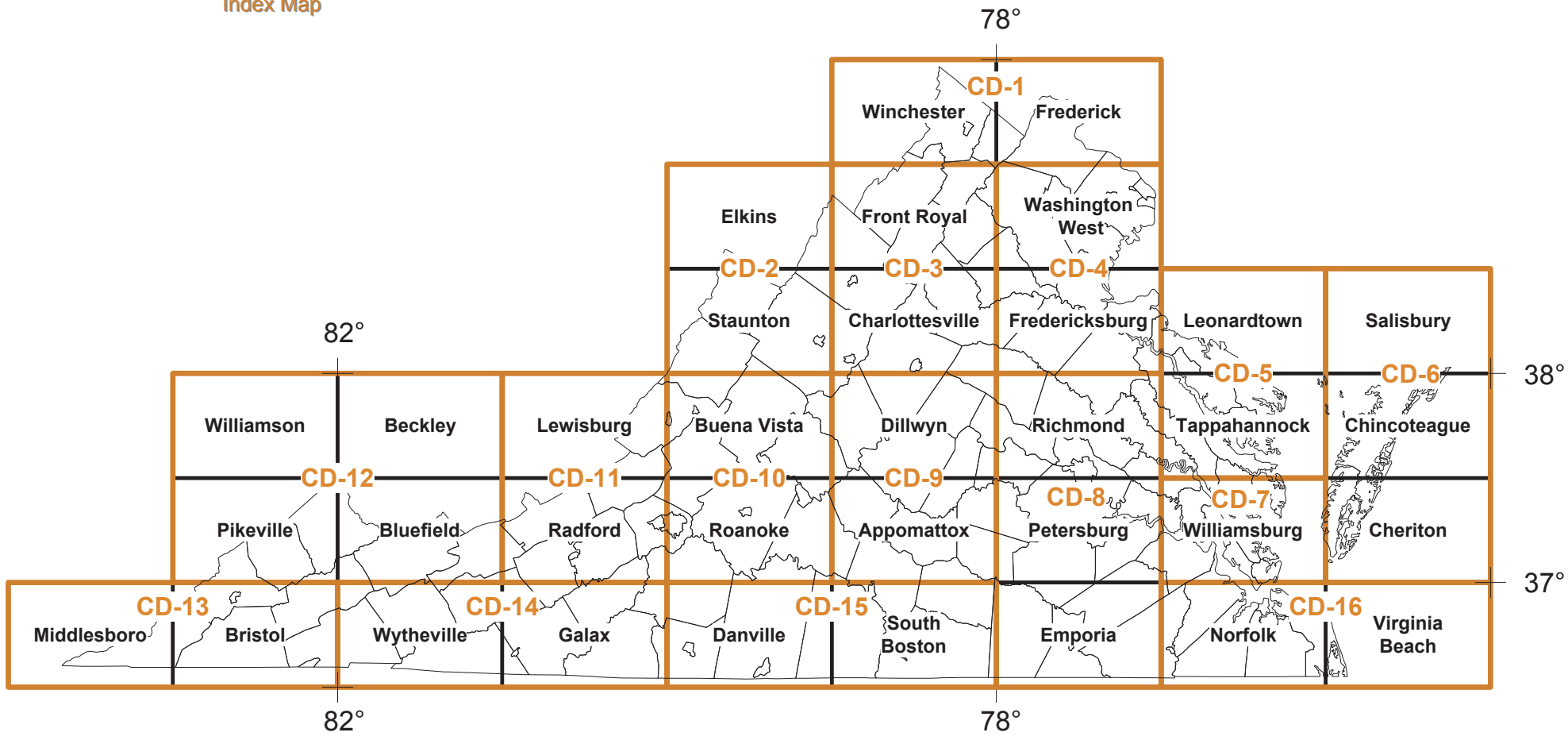
Image using viewer from
NT Program Accessories

Image using MapInfo



Note: Same image shown in two different viewing programs. Images not at same scale, for illustrative purposes only

Clipped Tiff Images for Virginia
Index Map



Original clipping process with ArcInfo by VA Economic Development Partnership, GIS Group
Further processing and CD distribution by VA Dept of Mines, Minerals and Energy, Division of Mineral Resources

Index Maps created in MapInfo™
County Base - USGS
1:2,000,000 scale National Atlas of United States

Coordinate System/Datum

UTM Zone 17 / NAD 27 - quadrangles west of 78° West longitude
UTM Zone 18 / NAD 27 - quadrangles east of 78° West longitude

Brief Process Description

The following contains a brief description of the process that the Digital Raster Graphics (DRGs) received from the USGS have undergone in order to create images of the topographic maps which are clipped at the neat line.

- 1) VA Economic Development Partnership clipped the original DRGs using an AML for ArcInfo™.
- 2) Tiff files with associated world files were forwarded to the VA Division of Mineral Resources. The tiff file was opened in Adobe PhotoShop 4.0 and the 255 color in the colormap was changed to white. Tiff files was saved into a pc compatible format.
- 3) HiJaak Pro version 4.5 to batch convert the tiff files to a Class P PackBit compressed tiff.
- 4) WorldReg v 3.03 from Data Directions of Eugene, Oregon was used with MapInfo Professional version 4.5 to create the registration files (tab files) for the images from the world files supplied by VA Economic Development Partnership. All files are UTM17 or UTM 18/ NAD 27 for continental US with the 255 color transparent.
- 5) Quick visual inspection of clipped tiff images in 1 by 0.5 degree cells for preliminary check.

Contacts

We would appreciate feedback concerning processing, intended usage or problems, and suggestions for improvements, please contact

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