

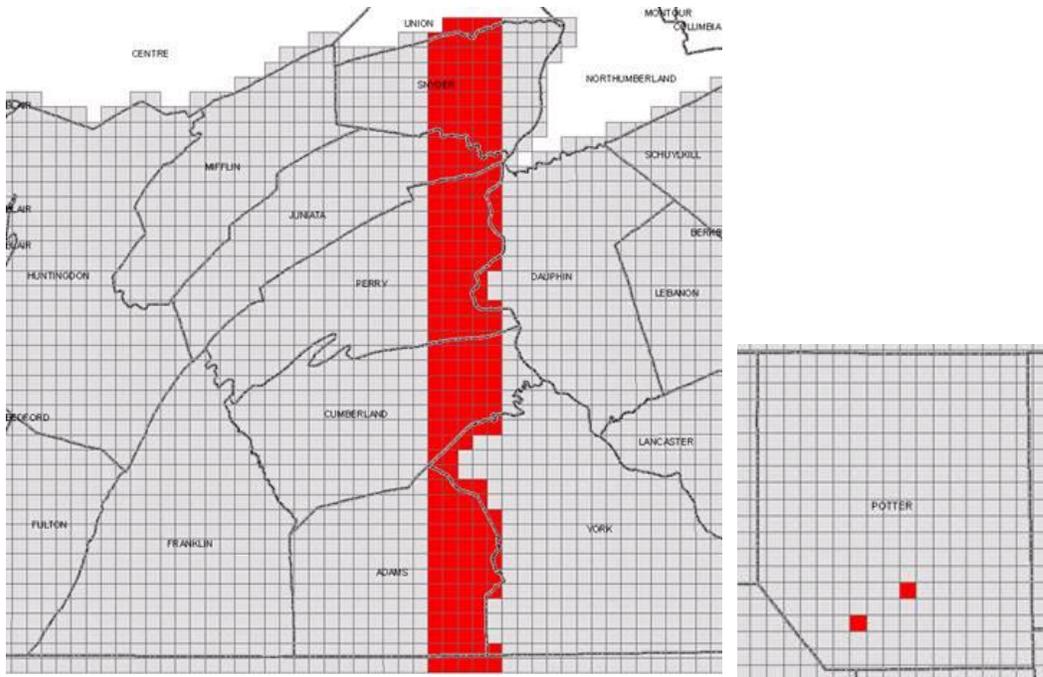
PAMAP LiDAR and Elevation Data Issues

Many contour shapefiles from the 2006 and 2007 data had a few occurrences of a value of 0 (zero) in the Elevation attribute field, or a value of 0 (zero) for vertex Z values. The Elevation values of 0 (zero) are not correct, and the incorrect Z values affect use of the shapefiles as 3D data when used in various GIS or CAD software programs. The affected tiles can be found [here](#). [This data was corrected, and corrected data distributed, in June 2009]

Many of the 2006 and 2007 contour shapefiles have an extra field named 'Length'. A few 2006 contour files had occurrences of extra attribute fields as well. This may cause a problem when bulk-loading the shapefiles into a geodatabase or other mosaic form, where the loading software is expecting a common schema (i.e. all fields in each shapefile are the same). The extra Length and other fields generate schema errors and stop the loading process. Generally, users have been able to identify and remove the 'offending' fields, or break the loading process up into Length and non-Length groups of data. The data itself and data values within the shapefiles are unaffected. The Length field is not part of the PAMAP schema, does not represent final data, and in many cases was not removed after final data acceptance. The PAMAP Program has now run routines on all of the 2006 and 2007 contour shapefiles to identify and remove extra or inconsistent fields, so that all shapefile schemas are the same. The affected tiles can be found [here](#). [This data was corrected and posted to PASDA in April 2009. The corrected data will be distributed in June 2009 in association with corrections for Elevation attribute values and vertex Z values]

256 of the 291 contour files from the 2006 data in Luzerne County are not 3D shapefiles. These contours will not act as 3D data when used in various GIS or CAD software programs. The list of affected tiles can be found [here](#). [This data was corrected, and corrected data distributed, in June 2009]

Approximately 200 LAS files from the 2007 data had negative coordinate values. These tiles are in a 5 column wide swath of data in the PAS04 and PAS10 production blocks in south central PA. This also affected 2 tiles in Potter County, 51001900PAN and 53001930PAN. The pictures show the location of affected tiles. This error was inadvertently caused by a routine run on the tiles by URS Corporation, a subcontractor to Dewberry, the QA service provider, after acceptance of the data. URS is now aware of the issue and has steps to prevent the error from occurring again. Penn State has processed all of the remaining 2007 tiles to check for the error, and have found no other occurrence. [This data was corrected, and corrected data distributed, in June 2009]



A few 2006 and 2007 breakline shapefiles have extra attribute fields. The affected breakline files are:

- 51002040PAN (2007), Tioga County
- 34001550PAN (2006), Clarion County
- 29001620PAN (2006), Jefferson County
- 44001650PAS (2006), Cambria County

This may cause a problem when bulk-loading the shapefiles into a geodatabase or other mosaic form, where the loading software is expecting a common schema (i.e. all fields in each shapefile are the same). The extra fields generate schema errors and stop the loading process. The data itself and data values within the shapefiles are unaffected. The fields are not part of the PAMAP schema, do not represent final data, and in these cases were not removed after final data acceptance. The PAMAP Program has now run routines on all of the 2006 and 2007 breakline shapefiles to identify and remove extra or inconsistent fields, so that all shapefile schemas are the same. [This data was corrected, and corrected data distributed, in May 2009]

The 2007 DEM tile 16001640PAS in Somerset County may not display the minimum and maximum values correctly in ArcGIS. The user should open the Properties:Symbology tab, select Show:Stretched, and choose Standard Deviations as the Stretch type. This should recalculate statistics and correct the issue. [Workaround required if necessary]

Corrections have been made to the 2006 LAS and DEM data for tile 35001830PAN in Clearfield County. A user discovered that a farm building artifact was not removed from the bare earth model, resulting in a very localized spike in the DEM. The DEM has been

corrected. The points in the LAS file have been re-classified. [This data was corrected, and corrected data distributed, in March 2009]

Null values were discovered along the edge of 2006 DEM tile 38001640PAS in Cambria County. The DEM was reproduced with corrected values. [This data was corrected, and corrected data distributed, in March 2009]