

2.5 Report on Coordinate Reference System (Swath Data)

The USGS LiDAR Base Specification Version 1.0 states: "The USGS preferred Coordinate Reference System for the Conterminous United States (CONUS) is Universal Transverse Mercator UTM, NAD83 HARN, Meters; NAVD88, Meters. Each discrete project is to be processed using the single predominant UTM zone for the overall collection area. The USGS will also accept data in other Coordinate Reference Systems that meet the conditions below:

- (1) State Plane and State Coordinate Reference Systems that have been accepted by the European Petroleum Survey Group (EPSG) may be used.
- (2) Coordinate Reference Systems for collections in Alaska, Hawaii, and other areas Outside the Conterminous United States (OCONUS) must be approved by the USGS before collection."

The purpose of this section is to show the projections of the LAS files for the LiDAR swath data.

[Boresighted Files - E:\Pope_Hardin\Swath_LAS](#)

File	EPSG Code	Projection
00001.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00002.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00003.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00004.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00005.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00006.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00007.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00008.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00009.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00010.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00011_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00011_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00012_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00012_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00013_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00013_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00014_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00014_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00015_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00015_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00016_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00016_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00017_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00017_Split2.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA
00018_Split1.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA

2.5 Report on Coordinate Reference System (Tiled Data) - continued

File	EPSG Code	Projection
998_3420.las	32767	EPSG Code: 32767 Horizontal Units: US Survey Feet Vertical Units: US Survey Feet Projection: NAD_1983_2011_StatePlane_Illinois_East_FIPS_1201_Ft_US projection: Transverse Mercator Vertical Datum: NA